

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

**PERIODIC REVIEW REPORT
MARCH 27, 2022 THROUGH MARCH 27, 2025**

NYSDEC BCP Number: C224160

Prepared for:

CINDERELLA 248, LLC

For Submittal to:

**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION**

Prepared by:



**640 JOHNSON AVENUE, SUITE 101
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SEPTEMBER 2025

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B	Resumes of Environmental Professionals
C	EC/IC Certification
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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 Engineering Control (EC) Sub-Slab Depressurization System (SSDS) remained in place during the reporting period. With approval from the NYSDEC (as documented in a letter dated September 27, 2022), the SSDS was shut off as of October 2022. From March through October 2022, effluent emissions were in compliance and did not require treatment. Monitoring of the SSDS was conducted during this period in substantial conformance with the Site Management Plan (SMP).
- An Institutional Control (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 NYSDOH guidance.
- Indoor air and sub-slab soil vapor sampling was conducted in March 2023 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.
- The NYSDEC reviewed system performance and SVI data and authorized the shutdown of the SSDS in September 2022.
- SVI sampling was conducted in March 2023 following an approximate five month period when the SSDS was shut down in accordance with NYSDEC approval. The testing results of the sub-slab soil vapor and corresponding indoor air sampling continue to indicate that SVI is no longer a concern and that mitigation is no longer required.

➤ Recommendations

- While the March 2023 soil vapor intrusion (SVI) sampling results continue to indicate that SVI is not currently a concern at the Site or adjoining properties, an additional SVI sampling event has been requested by the NYSDEC and will be conducted during the 2025–2026 heating season to further evaluate potential rebound with the sub-slab depressurization system (SSDS) remaining offline.
- Institutional Controls should remain in place, and compliance with the Environmental Easement and Site Management Plan should continue.

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, 2022 and March 27, 2025 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. In October 2022, upon approval from the NYSDEC (letter dated September 27, 2022) and FPM October 12, 2022 SSDS shutdown request, the SSDS was turned off. Approximately five months later, in March 2023, SVI Sampling was performed 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.



FPM GROUP

FIGURE 1.2.1

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

Drawn by: BC

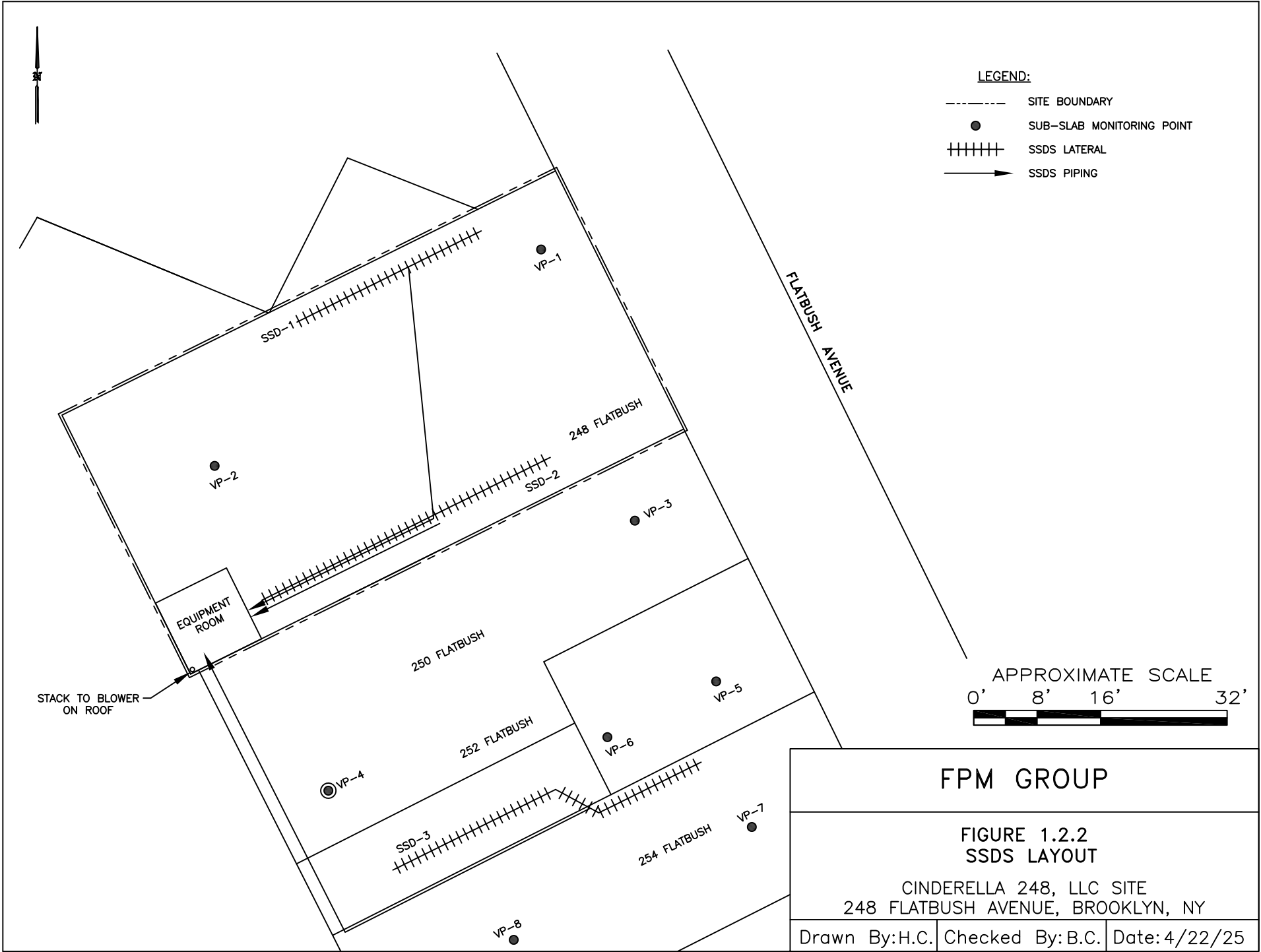
Checked By: BC

Date: 4/12/19

An 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 dated July 2015. Based on the recorded performance of the system, the consistent reduction in airborne contaminant concentrations, and supporting data from the March 2022 SVI sampling event, the NYSDEC approved deactivation of the SSDS. The system was subsequently turned off in October 2022, subsequent to NYSDEC approval (September 27, 2022) and FPMs SSDS Shutdown request (October 12, 2022).

1.3 Evaluation of Remedy Performance, Effectiveness, and Protectiveness

The remedy has been implemented in accordance with the approved work plans and associated NYSDEC correspondence, and was managed during this reporting period in substantial compliance with the NYSDEC-approved Site Management Plan (SMP). From March through October 2022, the SSDS operated effectively to prevent soil vapor intrusion (SVI) at the Site and at nearby properties. Based on system performance data and the results of SVI sampling, the NYSDEC approved deactivation of the SSDS (letter dated September 27, 2022) and FPMs SSDS Shutdown request (October 12, 2022), the system was subsequently turned off in October 2022. During the reporting period, the remedy performed effectively, while in operation, to prevent SVI at the Site and at properties in its nearby proximity.



SECTION 2.0

ENGINEERING AND INSTITUTIONAL CONTROLS COMPLIANCE

Contamination identified at the Site has included 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 that was installed to mitigate soil vapor and prevent SVI at the Site and select offsite properties. Based on the consistent reduction in contaminant concentrations and the results of the March 2022 SVI sampling event, the NYSDEC approved deactivation of the SSDS (approval letter dated September 27, 2022). The system was turned off in October 2022 but remains in place. 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 oversee and maintain the Engineering Control (EC), including the inactive but intact SSDS. 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 has been in continuous operation from August 2016 until October 2022, when it was turned off with approval from the NYSDEC (letter dated September 27, 2022). The system was designed 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 including post-shutdown sampling to verify continued protection of public health and the environment. 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) 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, 2022 through October 2023. 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.

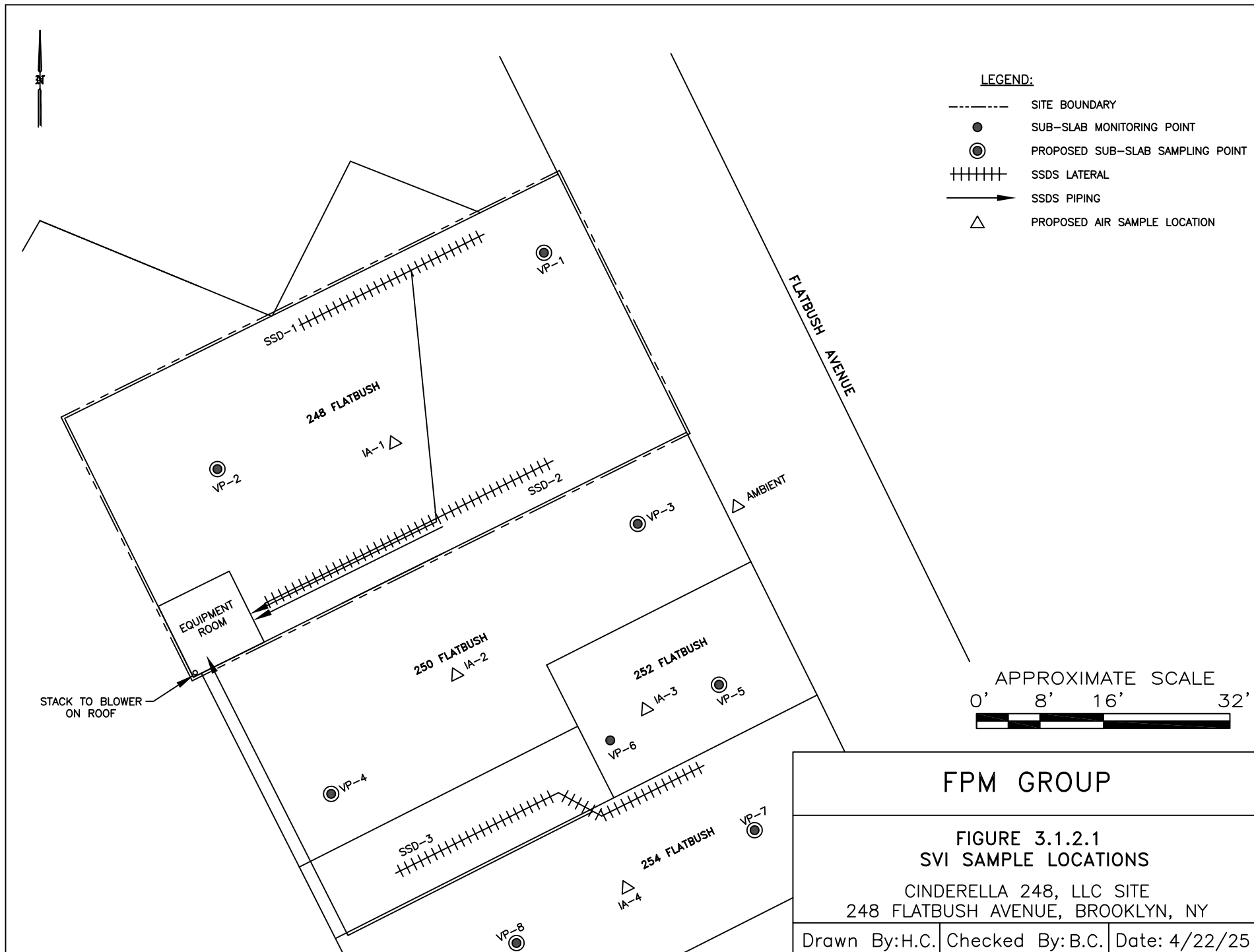
Effluent screening was performed during each monitoring event by collecting an effluent sample from the blower discharge piping and screening it with a calibrated PID.

3.1.2 SVI Sampling

To verify that vapor-phase contaminants did not rebound following SSDS deactivation, post-shutdown SVI testing was conducted in March 2023 and is documented in FPM's April 20, 2023 data submittal and summarized below. The data submittal was reviewed and approved by the NYSDEC on March 3, 2025. The complete April 20, 2023 data submittal including building questionnaire, laboratory report and analytical report, and NYSDEC March 3, 2025 approval letter are included in Attachment A.

3.1.2.1 March 2023 SVI Sampling

The March 2023 SVI sampling work was conducted in substantial conformance with the procedures in the NYSDEC-approved SMP and January 22 2022 SVI Work Plan. SVI sampling was conducted while the SSDS was offline. The Site (248 Flatbush Avenue) is presently occupied and utilized as a fitness center. The buildings at 250, 252 and 254 were noted to be vacant at the time of the sampling. 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 basement level slab and the ambient air sample was collected outside of the building in a similar manner as the indoor air samples. The sub-slab soil vapor sample was collected from each monitoring point which had been previously installed during Remedial Action activities.

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 indoor air and ambient air samples were set for an approximately eight-hour period, comparable to typical building occupancy. 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 sub-slab soil vapor samples were analyzed for standard level VOCs by Method TO-15.

A building inventory was completed during the course of the sampling event to document the construction, HVAC system operations, and the potential presence of VOC sources in the building. No obvious sources of VOC were identified; with the exception of several containers of sanitizers, disinfectants and other cleaning products at the 248 Flatbush Avenue building.

Quality assurance/quality control (QA/QC) procedures were implemented and a chain of custody to document the sequence of sample possession, and collection and analysis of a 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 DUSR was prepared.

The data from this sampling event are summarized in Table 3.1.2.1 the indoor air and sub-slab soil vapor sample results were evaluated in accordance with NYSDOH Guidance Matrices. Our review of these data indicates the following:

- Several compounds for which the NYSDOH provides guidance were detected including carbon tetrachloride, trichloroethylene and tetrachloroethylene at low concentrations. A response of “no further action” was noted for all the aforementioned compounds for which NYSDOH provides guidance when the indoor air and sub-slab soil vapor sampling results were compared;
- 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 the air samples from the 248 Flatbush Ave building. 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 as the outdoor ambient sample. Tetrachloroethylene was also noted at generally 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 sampling results were evaluated with respect to NYSDOH guidance and indicate that that a response of “no further action” was noted for all compounds for which NYSDOH provides guidance. Based upon the previous March 2022 and 2023 SVI testing, these data continue to demonstrate the SVI from historic dry cleaning operations no longer pose a concern to the subject and adjoining properties for which testing has been performed.

**TABLE 3.1.2.1
INDOOR AIR 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-11 (duplicate)	VP-3	VP-4	IA-2	VP-5	VP-6	IA-3	VP-7	VP-8	IA-4	Ambient	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	3/2/23														
Volatile Organic Compounds in ug/m³															
1,4-Dioxane	< 1.00	2.47	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
2-Hexanone(MBK)	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.51	-
Acetone	60.3	249	83.8	88.5	6.24	7.83	11.0	3.32	2.00	7.07	3.73	8.90	13.2	18.1	110
Benzene	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.38	15
Carbon Tetrachloride	0.46	0.42	0.45	0.45	0.45	0.44	0.45	0.43	0.43	0.50	0.42	0.48	0.47	0.45	0.8
Chloroform	6.44	< 1.00	2.77	2.86	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.86	< 1.00	1.4
Chloromethane	1.02	< 1.00	< 1.00	1.06	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.21	< 1.00	< 1.00	< 1.00	< 1.00	3.3
Dichlorodifluoromethane	2.35	2.40	2.36	2.34	2.45	2.30	2.44	2.42	2.42	2.13	2.36	2.56	2.56	2.33	15
Ethanol	620	91.9	452	439	5.76	10.8	25.2	9.90	4.26	9.77	8.44	39.90	11.7	18.4	2.6
Ethyl Acetate	< 1.00	2.91	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-
Hexane	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.05	< 1.00	< 1.00	< 1.00	< 1.00	18
Isopropyl alcohol	12.5	8.11	14.7	14.0	2.07	2.43	11.7	2.04	< 1.00	2.13	< 1.00	4.25	8.01	2.58	-
m,p- Xylenes	1.02	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	1.36	< 1.00	1.97	< 1.00	1.21	12
Methyl ethyl ketone	1.63	2.92	< 1.00	1.33	< 1.00	< 1.00	1.41	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	16.5	16
Tetrachloroethene	0.91	36.4	0.56	0.56	56.1	0.47	0.66	1.31	3.02	0.87	1.10	0.45	1.10	1.21	2.9
Toluene	5.61	1.72	3.57	3.50	< 1.00	1.78	1.99	< 1.00	< 1.00	2.53	< 1.00	4.41	2.83	2.83	58
Trichloroethene	< 0.20	< 0.20	< 0.20	< 0.20	0.28	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.5
Trichlorofluoromethane	1.38	1.36	1.43	1.35	1.42	1.41	1.41	1.35	1.38	1.56	1.38	1.44	1.41	1.35	17

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.

Detected compounds are **BOLDED**

** = NYSDOH Study 2003; 90th percentiles.

3.1.3 SSDS Monitoring Results

Effluent monitoring was performed during the reporting period until October 2022 (when approval to shut down the system was obtained as documented in the NYSDECs September 27, 2022 correspondence and FPM's October 12, 2022 request to shut down the SSDS) to ensure that effluent treatment was 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).

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 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 no monitoring deficiencies were noted.

3.1.5 Monitoring Conclusions and Recommendations

The monitoring results indicated that low to very low levels of PCE remained present in the soil vapor, as shown by effluent concentrations prior to system shutdown. SVI monitoring conducted in March 2023 confirmed that the criteria for termination of mitigation had been met and that vapor intrusion is no longer a concern at the Site or adjoining properties.

With NYSDEC approval (letter dated September 27, 2022) and FPMs Request for shutdown (dated October 12, 2022) , the SSDS was permanently shut down in October 2022, and site monitoring activities have since been 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 remained in operation from March 2022 through October 2022, at which point the system was shut down with NYSDEC approval (letter dated September 27, 2022) and FPM's shutdown request (October 12, 2022). O&M activities were performed up to the time of shutdown.

4.1 Summary of O&M Activities

The SSDS was checked and maintained during the portion of the reporting period in which it remained operational (March 2022 through October 2022). Routine maintenance—including inspection of the condensate vessel, air filter, and other system components—was performed. Operating parameters such as system vacuum and flow rates were recorded to evaluate performance and determine any need for preventative maintenance.

4.2 Evaluation of O&M Activities

The O&M activities conducted during the operational period ensured the SSDS continued to function as intended. Monitoring confirmed that the system operated within its design parameters until it was shut down in October 2022.

4.3 O&M Deficiencies

No O&M deficiencies were noted during this reporting period. The system remained in continuous operation until it was shut down in October 2022.

4.4 O&M Conclusions and Recommendations

O&M activities were effective during the operational period covered by this report. As the SSDS has since been permanently shut down with NYSDEC approval, no further O&M activities are anticipated unless otherwise directed by the Department.

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 SSDS remained in place and operational through October 2022, when it was shut down with NYSDEC approval (letter dated September 27, 2022) and FPM's Shut down request (dated October 12, 2022).
- 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

- System monitoring and routine maintenance were performed up to the time of SSDS shutdown in October 2022. Effluent emissions remained in compliance and did not require treatment. Post-shutdown SVI sampling was conducted in March 2023 and confirmed that SVI no longer poses a concern at the site and adjoining properties and the SSDS is no longer required.

5.2 Performance and Effectiveness of the Remedy

The remedy has been implemented and managed in accordance with the SMP. Monitoring results confirm that the SSDS was effective in mitigating vapor intrusion and that the Site no longer presents a soil vapor intrusion concern. Institutional Controls continue to provide appropriate oversight.

5.3 Recommendations

Based on current Site conditions, historical monitoring data, and the results of the March 2023 post-shutdown SVI sampling, FPM recommends the following:

- While the March 2023 soil vapor intrusion (SVI) sampling results continue to indicate that SVI is not currently a concern at the Site or adjoining properties, an additional SVI sampling event has been requested by the NYSDEC and will be conducted during the 2025–2026 heating season to further evaluate potential rebound with the sub-slab depressurization system (SSDS) remaining offline.
- Institutional Controls should remain in place, and compliance with the Environmental Easement and Site Management Plan should continue.

APPENDIX A

- **2020-2022 PRR APPROVAL (9/27/22)**
- **REQUEST FOR SSDS SHUT DOWN (10/12/22)**
- **MARCH 2023 SVI DATA SUBMITTAL (4/20/23)**
- **PRR REMINDER NOTICE (2/11/25)**
- **MARCH 2023 SVI DATA SUBMITTAL APPROVAL (3/5/25)**

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau B
625 Broadway, 12th Floor, Albany, NY 12233-7016
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www.dec.ny.gov

SENT VIA EMAIL

September 27, 2022

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 and the New York State Department of Health (NYSDOH) have reviewed your Periodic Review Report (PRR) and IC/EC Certification for following period: March 27, 2020, to March 27, 2022.

The Department hereby accepts the PRR and associated Certification. Additionally, the sub-slab depressurization system (SSDS) can be turned off at this time. However, the SSDS must remain in place and intact until an additional round of soil vapor intrusion (SVI) sampling is completed at the end of this upcoming heating season to ensure no rebound of contaminant concentrations is occurring.

As previously indicated to your environmental consultant, a formal SSDS shut down request/report also must be provided to the Department. This request is to be signed and stamped by a professional engineer documenting that the SSDS is no longer required to be protective of human health at the site. The Department and the NYSDOH will decide at that time regarding a permanent decommissioning of the SSDS.

Lastly, the frequency of Periodic Reviews for this site has been modified to every 3 year(s), your next PRR is due on April 28, 2025. 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 518-402-9143 or e-mail: daniel.mcnally@dec.ny.gov.

Sincerely,



Daniel McNally
Project Manager



Department of
Environmental
Conservation

ec: D. MacNeal, Section Chief, DEC
D. McNally, Project Manager, DEC
J. O'Connell, RHWRE, DEC
S. McLaughlin, Region Chief, DOH
W. Kuehner, Project Manager, DOH
M. Pintchik, Cinderella 248 LLC



**Department
of Health**

KATHY HOCHUL
Governor

MARY T. BASSETT, M.D., M.P.H.
Commissioner

KRISTIN M. PROUD
Acting Executive Deputy Commissioner

September 21, 2022

Dan McNally
Division of Environmental Remediation
NYS Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Re: **Periodic Review Report**
248 Cinderella
Site #C224160
Brooklyn, Kings County

Dear Dan McNally:

I have reviewed the *Periodic Review Report* for the period between March 27, 2020 and March 27, 2022 for the above-referenced site. Based on this review, I agree that the sub-slab depressurization system (SSDS) may be turned off. However, the system should remain in place, and an additional round of soil vapor intrusion sampling be conducted at the end of this heating season, to confirm that rebound is not occurring, prior to requesting permanent decommission of the system. I have no additional comments on the report and find it acceptable.

Please feel free to contact me at (518) 402-7882 if you have questions or wish to discuss the site further.

Sincerely,

A handwritten signature in black ink, appearing to read "Wendy Kuehner".

Wendy S. Kuehner, P.E.
Professional Engineer 1 (Environmental)
Bureau of Environmental Exposure Investigation

Ec: S. McLaughlin / e-File
E. Wiegert – NYSDOH MARO
M. Little – NYC DOHMH
G. Burke / D. MacNeal – NYSDEC Central Office
J. O'Connell / C. Maycock – NYSDEC Region 2

VIA EMAIL

October 12, 2022

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

Re: **Request for SSDS Shutdown**
Cinderella 248, LLC NYSDEC Site No. C224160
248 Flatbush Avenue, New York
FPM File No.1104g-21-09-01

Dear Mr. McNally:

FPM Group (FPM), on behalf of Cinderella 248 LLC, is hereby formally requesting permission to shut down the sub-slab depressurization system (SSDS) in accordance with the New York State Department of Environmental Conservation (NYSDEC) September 27, 2022 correspondence and the recommendations of FPM's Period Review Report for the March 27, 2020 through March 27, 2022 reporting period (PRR). The recent March 2022 soil indoor air and sub-slab soil vapor sampling together with the SSDS effluent collected during the reporting period and documented in the PRR indicates that operation of the SSDS is no longer required to be protective of human health at the Cinderella 248, LLC site.

We also understand that the SSDS system is to remain in place and intact until permission to decommission the system is obtained from the NYSDEC and New York State Department of Health. We further understand that additional soil vapor intrusion sampling (SVI) is required before the end of 2022 - 2023 heating season to evaluate potential rebound of contaminants. The SVI sampling will be conducted in accordance with our previously approved January 25, 2022 Work Plan and is tentatively scheduled for March 2023. The NYSDEC will be notified at least 1-week in advance of the sampling.

Should you have any questions or require further information please feel free to contact Mr. Ben Cancemi at 631-737-6200.

Very truly yours,



Kevin P. Loyst, PE, PMP
Department Manager
Vice President



BTC/KL:btc

S:\Rigano LLC\Cinderella 248 LLC\Request For SSDS Shutdown.Docx

VIA EMAIL

April 20, 2023

Mr. Daniel G. McNally
Project Manager
New York State Department of Environmental Conservation
625 Broadway, 11th Floor
Albany, NY 12233-7015

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

Dear Dan,

FPM Group (FPM) is hereby transmitting the results of the soil vapor intrusion sampling conducted on March 2, 2023 for the above-referenced. SVI sampling was conducted in accordance with our January 25, 2022 NYSDEC-approved SVI workplan and was conducted while the SSDS was offline. The system was not restarted following sampling as permission to shut the system down was conditionally approved by the NYSDEC pending receipt of a formal request for shutdown by FPM. This request for shutdown was provided by FPM in our correspondence dated October 12, 2022. A site plan showing the SVI sampling locations is included as Figure 1.

It should be noted that 248 Flatbush Avenue is presently occupied and utilized as a fitness center. The buildings at 250, 252 and 254 were noted to be vacant at the time of the sampling.

This transmittal includes a copy of the SVI lab data and the associated Data Usability Summary Report (Attachment A), a building inventory (Attachment B), summary data tables, and a site plan showing the sampling locations. We have also included a discussion of the procedures and results and our recommendation.

Soil Vapor Intrusion Sampling and Results

The indoor air samples were collected from a height of approximately four feet above the basement level slab and the ambient air sample was collected outside of the building in a similar manner as the indoor air samples. The sub-slab soil vapor sample was collected from each monitoring point which had been previously installed during Remedial Action activities.

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 indoor air and ambient air samples were set for an approximately eight-hour period, comparable to typical building occupancy. 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 sub-slab soil vapor samples were analyzed for standard level VOCs by Method TO-15.

A building inventory was completed during the course of the sampling event to document the construction, HVAC system operations, and the potential presence of VOC sources in the building. No obvious sources of VOC were identified; with the exceptions of several containers of sanitizers, disinfectant and other cleaning products at the 248 Flatbush Avenue building. The completed building inventory form is included in Attachment B.

Quality assurance/quality control (QA/QC) procedures were implemented and a chain of custody to document the sequence of sample possession, and collection and analysis of a 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 DUSR was prepared. The DUSR is included in Attachment A and did not identify any significant data usability issues.

SVI Sample Results

The data are summarized in Table 1 and the indoor air and sub-slab soil vapor sample results were evaluated in accordance with NYSDOH Guidance Matrices. Our review of these data indicates the following:

- Several compounds for which the NYSDOH provides guidance were detected including carbon tetrachloride, trichloroethylene and tetrachloroethylene at low concentrations. A response of “no further action” was noted for all the aforementioned compounds for which NYSDOH provides guidance when the indoor air and sub-slab soil vapor sampling results were compared;
- 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 the 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 as the outdoor ambient sample. Tetrachloroethylene was 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.

Conclusions and Recommendations

Based on the SVI monitoring data, we have the following conclusions:

- The sampling results were evaluated with respect to NYSDOH guidance and indicate that a response of “no further action” was noted for all compounds for which NYSDOH provides guidance. Based upon the previous March 2022 and 2023 SVI testing, these data continue to demonstrate the SVI from prior dry cleaning operations no longer pose a concern for the subject and adjoining properties for which testing has been performed.

Following your review and concurrence with our findings, please confirm in writing that no further SVI monitoring will be required and that SSDS can continue to remain shut down. Feel free to contact me with any questions.

Very truly yours,



Ben T. Cancemi, PG
Senior Hydrogeologist
Department Manager

BTC:btc

Attachments

cc: Mr. Michael Pintchik

S:\Rigano LLC\Cinderella 248 LLC\SVI SAMPLING 2023\Cinderella 284 Site - March 2023 SVI Data Submittal .docx

ATTACHMENT A

SVI LABORATORY REPORT AND DATA USABILITY SUMMARY REPORT



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 248 FLAT BUSH

GCN54079

Ver 1

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Monday, March 20, 2023

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

Project ID: CINDERELLA 248 FLAT BUSH
SDG ID: GCN54079
Sample ID#s: CN54079 - CN54092

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, appearing to read "Phyllis Shiller".

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
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: CINDERELLA 248 FLAT BUSH
Laboratory Project: GCN54079



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

March 20, 2023

SDG I.D.: GCN54079

FPM Group CINDERELLA 248 FLAT BUSH

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.



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

March 20, 2023

SDG I.D.: GCN54079

FPM Group CINDERELLA 248 FLAT BUSH

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CN54079	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54080	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54081	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54082	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54083	Volatiles (TO15)	03/02/23	03/07/23	03/07/23	KCA	Y
CN54084	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54085	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54086	Volatiles (TO15)	03/02/23	03/07/23	03/07/23	KCA	Y
CN54087	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54088	Volatiles (TO15)	03/02/23	03/07/23	03/07/23	KCA	Y
CN54089	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54090	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54091	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y
CN54092	Volatiles (TO15)	03/02/23	03/08/23	03/08/23	KCA	Y



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



SDG Comments

March 20, 2023

SDG I.D.: GCN54079

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

March 20, 2023

SDG I.D.: GCN54079

Project ID: CINDERELLA 248 FLAT BUSH

Client Id	Lab Id	Matrix
VP-2	CN54079	AIR
VP-3	CN54080	AIR
VP-8	CN54081	AIR
VP-7	CN54082	AIR
AMBIENT	CN54083	AIR
VP-4	CN54084	AIR
VP-5	CN54085	AIR
IA-11	CN54086	AIR
VP-6	CN54087	AIR
IA-2	CN54088	AIR
IA-4	CN54089	AIR
IA-1	CN54090	AIR
VP-1	CN54091	AIR
IA-3	CN54092	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

March 20, 2023

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: 19816

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 15:52
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54079

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	0.685	0.278	0.278	2.47	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	105	2.11	2.11	249	5.01	5.01	03/08/23	KCA	5
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-2

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.067	0.032	0.032	0.42	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.486	0.202	0.202	2.40	1.00	1.00	03/08/23	KCA	1
Ethanol	48.8	2.66	2.66	91.9	5.01	5.01	03/08/23	KCA	5 1
Ethyl acetate	0.809	0.278	0.278	2.91	1.00	1.00	03/08/23	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	3.30	0.407	0.407	8.11	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	0.989	0.339	0.339	2.92	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	5.37	0.037	0.037	36.4	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1 1
Toluene	0.458	0.266	0.266	1.72	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.242	0.178	0.178	1.36	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	96	%	%	96	%	%	03/08/23	KCA	1
% Bromofluorobenzene (5x)	103	%	%	103	%	%	03/08/23	KCA	5
% IS-1,4-Difluorobenzene (5x)	91	%	%	91	%	%	03/08/23	KCA	5
% IS-Bromochloromethane (5x)	93	%	%	93	%	%	03/08/23	KCA	5
% IS-Chlorobenzene-d5 (5x)	92	%	%	92	%	%	03/08/23	KCA	5

Client ID: VP-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

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.

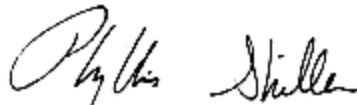
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

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

March 20, 2023

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

March 20, 2023

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: 19786

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 15:48
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54080

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	2.63	0.421	0.421	6.24	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.071	0.032	0.032	0.45	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.495	0.202	0.202	2.45	1.00	1.00	03/08/23	KCA	1
Ethanol	3.06	0.531	0.531	5.76	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	0.843	0.407	0.407	2.07	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	8.27	0.037	0.037	56.1	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	0.052	0.037	0.037	0.28	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.253	0.178	0.178	1.42	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	90	%	%	90	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	89	%	%	89	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	90	%	%	90	%	%	03/08/23	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

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.

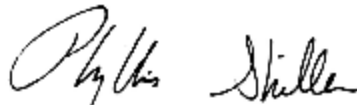
RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quantitation) ND=Not Detected BRL=Below Reporting Level L=Biased Low LOD=Limit of Detection MDL=Method Detection Limit1

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

Comments:

The canister was received under no vacuum, therefore sample results may not be representative.

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

March 20, 2023

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

March 20, 2023

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: 28563

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:45
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54081

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	3.75	0.421	0.421	8.90	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	0.461	0.313	0.313	1.47	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-8

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.076	0.032	0.032	0.48	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.517	0.202	0.202	2.56	1.00	1.00	03/08/23	KCA	1
Ethanol	21.2	0.531	0.531	39.9	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	1.73	0.407	0.407	4.25	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	0.453	0.230	0.230	1.97	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.066	0.037	0.037	0.45	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	1.17	0.266	0.266	4.41	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.257	0.178	0.178	1.44	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	90	%	%	90	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	90	%	%	90	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	91	%	%	91	%	%	03/08/23	KCA	1

Client ID: VP-8

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

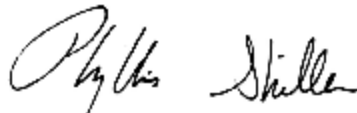
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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: 19844

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:43
03/07/23 15:06

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54082

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	1.57	0.421	0.421	3.73	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-7

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.067	0.032	0.032	0.42	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.477	0.202	0.202	2.36	1.00	1.00	03/08/23	KCA	1
Ethanol	4.48	0.531	0.531	8.44	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.163	0.037	0.037	1.10	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.245	0.178	0.178	1.38	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	103	%	%	103	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	104	%	%	104	%	%	03/08/23	KCA	1

Client ID: VP-7

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

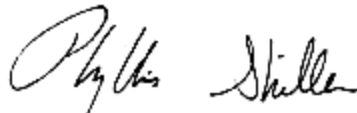
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Analysis Report

March 20, 2023

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: 28603

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:40
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54083

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: AMBIENT

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/07/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/07/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/07/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/07/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/07/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/07/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/07/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/07/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/07/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/07/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
2-Hexanone(MBK)	0.370	0.244	0.244	1.51	1.00	1.00	03/07/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
Acetone	7.61	0.421	0.421	18.1	1.00	1.00	03/07/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/07/23	KCA	1
Benzene	0.432	0.313	0.313	1.38	1.00	1.00	03/07/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/07/23	KCA	1

Client ID: AMBIENT

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	03/07/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/07/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/07/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/07/23	KCA	1
Carbon Tetrachloride	0.071	0.032	0.032	0.45	0.20	0.20	03/07/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/07/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/07/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/07/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/07/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/07/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/07/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/07/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/07/23	KCA	1
Dichlorodifluoromethane	0.471	0.202	0.202	2.33	1.00	1.00	03/07/23	KCA	1
Ethanol	9.77	0.531	0.531	18.4	1.00	1.00	03/07/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/07/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/07/23	KCA	1
Isopropylalcohol	1.05	0.407	0.407	2.58	1.00	1.00	03/07/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
m,p-Xylene	0.278	0.230	0.230	1.21	1.00	1.00	03/07/23	KCA	1
Methyl Ethyl Ketone	5.59	0.339	0.339	16.5	1.00	1.00	03/07/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/07/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/07/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/07/23	KCA	1
Tetrachloroethene	0.178	0.037	0.037	1.21	0.25	0.25	03/07/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/07/23	KCA	1
Toluene	0.752	0.266	0.266	2.83	1.00	1.00	03/07/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/07/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/07/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/07/23	KCA	1
Trichlorofluoromethane	0.240	0.178	0.178	1.35	1.00	1.00	03/07/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/07/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/07/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	03/07/23	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	03/07/23	KCA	1
% IS-Bromochloromethane	98	%	%	98	%	%	03/07/23	KCA	1
% IS-Chlorobenzene-d5	98	%	%	98	%	%	03/07/23	KCA	1

Client ID: AMBIENT

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

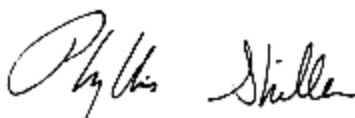
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



Analysis Report

March 20, 2023

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: 23338

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:17
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54084

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-4

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	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	3.30	0.421	0.421	7.83	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-4

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.070	0.032	0.032	0.44	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.465	0.202	0.202	2.30	1.00	1.00	03/08/23	KCA	1
Ethanol	5.76	0.531	0.531	10.8	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	0.989	0.407	0.407	2.43	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.070	0.037	0.037	0.47	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	0.473	0.266	0.266	1.78	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.252	0.178	0.178	1.41	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	106	%	%	106	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	104	%	%	104	%	%	03/08/23	KCA	1

Client ID: VP-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

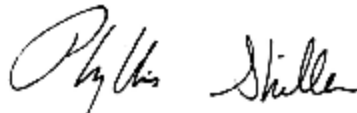
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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: 23343

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:26
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54085

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	1.40	0.421	0.421	3.32	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-5

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.069	0.032	0.032	0.43	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.489	0.202	0.202	2.42	1.00	1.00	03/08/23	KCA	1
Ethanol	5.27	0.531	0.531	9.9	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	0.829	0.407	0.407	2.04	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.194	0.037	0.037	1.31	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.241	0.178	0.178	1.35	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	104	%	%	104	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	104	%	%	104	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	103	%	%	103	%	%	03/08/23	KCA	1

Client ID: VP-5

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

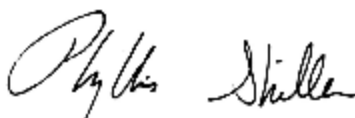
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 15:55
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54086

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: IA-11

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/07/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/07/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/07/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/07/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/07/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/07/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/07/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/07/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/07/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/07/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
Acetone	37.3	0.421	0.421	88.5	1.00	1.00	03/07/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/07/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/07/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/07/23	KCA	1

Client ID: IA-11

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	03/07/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/07/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/07/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/07/23	KCA	1
Carbon Tetrachloride	0.072	0.032	0.032	0.45	0.20	0.20	03/07/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/07/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/07/23	KCA	1
Chloroform	0.587	0.205	0.205	2.86	1.00	1.00	03/07/23	KCA	1
Chloromethane	0.513	0.485	0.485	1.06	1.00	1.00	03/07/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/07/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/07/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/07/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/07/23	KCA	1
Dichlorodifluoromethane	0.474	0.202	0.202	2.34	1.00	1.00	03/07/23	KCA	1
Ethanol	233	E 0.531	0.531	439	1.00	1.00	03/07/23	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/07/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/07/23	KCA	1
Isopropylalcohol	5.70	0.407	0.407	14.0	1.00	1.00	03/07/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Methyl Ethyl Ketone	0.451	0.339	0.339	1.33	1.00	1.00	03/07/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/07/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/07/23	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/07/23	KCA	1
Tetrachloroethene	0.083	0.037	0.037	0.56	0.25	0.25	03/07/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/07/23	KCA	1 1
Toluene	0.929	0.266	0.266	3.50	1.00	1.00	03/07/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/07/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/07/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/07/23	KCA	1
Trichlorofluoromethane	0.241	0.178	0.178	1.35	1.00	1.00	03/07/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/07/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/07/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	03/07/23	KCA	1
% IS-1,4-Difluorobenzene	96	%	%	96	%	%	03/07/23	KCA	1
% IS-Bromochloromethane	97	%	%	97	%	%	03/07/23	KCA	1
% IS-Chlorobenzene-d5	97	%	%	97	%	%	03/07/23	KCA	1

Client ID: IA-11

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

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 (preceded 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

March 20, 2023

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

March 20, 2023

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: 12857

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:28
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54087

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	0.842	0.421	0.421	2.00	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-6

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.069	0.032	0.032	0.43	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.489	0.202	0.202	2.42	1.00	1.00	03/08/23	KCA	1
Ethanol	2.26	0.531	0.531	4.26	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	ND	0.407	0.407	ND	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.445	0.037	0.037	3.02	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	ND	0.266	0.266	ND	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.246	0.178	0.178	1.38	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	104	%	%	104	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	99	%	%	99	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	101	%	%	101	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	99	%	%	99	%	%	03/08/23	KCA	1

Client ID: VP-6

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

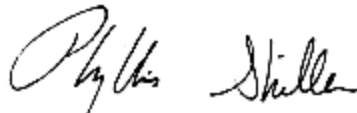
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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: 17161

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:16
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54088

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/07/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/07/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/07/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/07/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/07/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/07/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/07/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/07/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/07/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/07/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/07/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/07/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
Acetone	4.65	0.421	0.421	11.0	1.00	1.00	03/07/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/07/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/07/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/07/23	KCA	1

Client ID: IA-2

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	03/07/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/07/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/07/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/07/23	KCA	1
Carbon Tetrachloride	0.072	0.032	0.032	0.45	0.20	0.20	03/07/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/07/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/07/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/07/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/07/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/07/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/07/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/07/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/07/23	KCA	1
Dichlorodifluoromethane	0.493	0.202	0.202	2.44	1.00	1.00	03/07/23	KCA	1
Ethanol	13.4	0.531	0.531	25.2	1.00	1.00	03/07/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/07/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/07/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/07/23	KCA	1
Isopropylalcohol	4.77	0.407	0.407	11.7	1.00	1.00	03/07/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/07/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Methyl Ethyl Ketone	0.478	0.339	0.339	1.41	1.00	1.00	03/07/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/07/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/07/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/07/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/07/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/07/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/07/23	KCA	1
Tetrachloroethene	0.097	0.037	0.037	0.66	0.25	0.25	03/07/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/07/23	KCA	1
Toluene	0.529	0.266	0.266	1.99	1.00	1.00	03/07/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/07/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/07/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/07/23	KCA	1
Trichlorofluoromethane	0.251	0.178	0.178	1.41	1.00	1.00	03/07/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/07/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/07/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	03/07/23	KCA	1
% IS-1,4-Difluorobenzene	95	%	%	95	%	%	03/07/23	KCA	1
% IS-Bromochloromethane	96	%	%	96	%	%	03/07/23	KCA	1
% IS-Chlorobenzene-d5	96	%	%	96	%	%	03/07/23	KCA	1

Client ID: IA-2

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

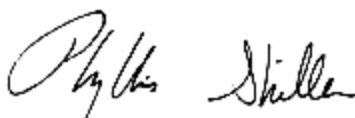
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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: 13652

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:42
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54089

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	5.54	0.421	0.421	13.2	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: IA-4

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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.074	0.032	0.032	0.47	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	0.381	0.205	0.205	1.86	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.517	0.202	0.202	2.56	1.00	1.00	03/08/23	KCA	1
Ethanol	6.21	0.531	0.531	11.7	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	3.26	0.407	0.407	8.01	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.163	0.037	0.037	1.10	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	0.751	0.266	0.266	2.83	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.252	0.178	0.178	1.41	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	103	%	%	103	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	91	%	%	91	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	92	%	%	92	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	92	%	%	92	%	%	03/08/23	KCA	1

Client ID: IA-4

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

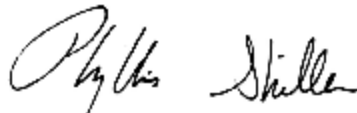
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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: 23329

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 15:57
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54090

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: IA-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
<u>Volatiles (TO15)</u>									
1,1,1,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	35.3	0.421	0.421	83.8	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.072	0.032	0.032	0.45	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	0.568	0.205	0.205	2.77	1.00	1.00	03/08/23	KCA	1
Chloromethane	ND	0.485	0.485	ND	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.478	0.202	0.202	2.36	1.00	1.00	03/08/23	KCA	1
Ethanol	240	E 0.531	0.531	452	1.00	1.00	03/08/23	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	5.98	0.407	0.407	14.7	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.083	0.037	0.037	0.56	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1 1
Toluene	0.947	0.266	0.266	3.57	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.254	0.178	0.178	1.43	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	104	%	%	104	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	94	%	%	94	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	93	%	%	93	%	%	03/08/23	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

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 (preceded 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

March 20, 2023

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

March 20, 2023

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: 23335

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:08
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54091

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: VP-1

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	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	25.4	0.421	0.421	60.3	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	ND	0.313	0.313	ND	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: VP-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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.073	0.032	0.032	0.46	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	1.32	0.205	0.205	6.44	1.00	1.00	03/08/23	KCA	1
Chloromethane	0.492	0.485	0.485	1.02	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.476	0.202	0.202	2.35	1.00	1.00	03/08/23	KCA	1
Ethanol	329	E 0.531	0.531	620	1.00	1.00	03/08/23	KCA	1 1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1 1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	ND	0.284	0.284	ND	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	5.08	0.407	0.407	12.5	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	0.235	0.230	0.230	1.02	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	0.554	0.339	0.339	1.63	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1 1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1 1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1 1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.134	0.037	0.037	0.91	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1 1
Toluene	1.49	0.266	0.266	5.61	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.246	0.178	0.178	1.38	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	104	%	%	104	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	102	%	%	102	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	103	%	%	103	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	104	%	%	104	%	%	03/08/23	KCA	1

Client ID: VP-1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

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 (preceded 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

March 20, 2023

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

March 20, 2023

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: 228

Custody Information

Collected by: CD
Received by: CP
Analyzed by: see "By" below

Date

03/02/23 16:27
03/07/23 15:06

Time

Laboratory Data

SDG ID: GCN54079
Phoenix ID: CN54092

Project ID: CINDERELLA 248 FLAT BUSH
Client ID: IA-3

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	03/08/23	KCA	1
1,1,1-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1,2,2-Tetrachloroethane	ND	0.146	0.146	ND	1.00	1.00	03/08/23	KCA	1
1,1,2-Trichloroethane	ND	0.183	0.183	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,1-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
1,2,4-Trichlorobenzene	ND	0.135	0.135	ND	1.00	1.00	03/08/23	KCA	1
1,2,4-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dibromoethane(EDB)	ND	0.130	0.130	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichloroethane	ND	0.247	0.247	ND	1.00	1.00	03/08/23	KCA	1
1,2-dichloropropane	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
1,2-Dichlorotetrafluoroethane	ND	0.143	0.143	ND	1.00	1.00	03/08/23	KCA	1
1,3,5-Trimethylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
1,3-Butadiene	ND	0.452	0.452	ND	1.00	1.00	03/08/23	KCA	1
1,3-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dichlorobenzene	ND	0.166	0.166	ND	1.00	1.00	03/08/23	KCA	1
1,4-Dioxane	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
2-Hexanone(MBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
4-Ethyltoluene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
4-Isopropyltoluene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
4-Methyl-2-pentanone(MIBK)	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Acetone	2.98	0.421	0.421	7.07	1.00	1.00	03/08/23	KCA	1
Acrylonitrile	ND	0.461	0.461	ND	1.00	1.00	03/08/23	KCA	1
Benzene	0.325	0.313	0.313	1.04	1.00	1.00	03/08/23	KCA	1
Benzyl chloride	ND	0.193	0.193	ND	1.00	1.00	03/08/23	KCA	1

Client ID: IA-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	03/08/23	KCA	1
Bromoform	ND	0.097	0.097	ND	1.00	1.00	03/08/23	KCA	1
Bromomethane	ND	0.258	0.258	ND	1.00	1.00	03/08/23	KCA	1
Carbon Disulfide	ND	0.321	0.321	ND	1.00	1.00	03/08/23	KCA	1
Carbon Tetrachloride	0.079	0.032	0.032	0.50	0.20	0.20	03/08/23	KCA	1
Chlorobenzene	ND	0.217	0.217	ND	1.00	1.00	03/08/23	KCA	1
Chloroethane	ND	0.379	0.379	ND	1.00	1.00	03/08/23	KCA	1
Chloroform	ND	0.205	0.205	ND	1.00	1.00	03/08/23	KCA	1
Chloromethane	0.585	0.485	0.485	1.21	1.00	1.00	03/08/23	KCA	1
Cis-1,2-Dichloroethene	ND	0.051	0.051	ND	0.20	0.20	03/08/23	KCA	1
cis-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Cyclohexane	ND	0.291	0.291	ND	1.00	1.00	03/08/23	KCA	1
Dibromochloromethane	ND	0.118	0.118	ND	1.00	1.00	03/08/23	KCA	1
Dichlorodifluoromethane	0.431	0.202	0.202	2.13	1.00	1.00	03/08/23	KCA	1
Ethanol	5.19	0.531	0.531	9.8	1.00	1.00	03/08/23	KCA	1
Ethyl acetate	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Ethylbenzene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Heptane	ND	0.244	0.244	ND	1.00	1.00	03/08/23	KCA	1
Hexachlorobutadiene	ND	0.094	0.094	ND	1.00	1.00	03/08/23	KCA	1
Hexane	0.298	0.284	0.284	1.05	1.00	1.00	03/08/23	KCA	1
Isopropylalcohol	0.867	0.407	0.407	2.13	1.00	1.00	03/08/23	KCA	1
Isopropylbenzene	ND	0.204	0.204	ND	1.00	1.00	03/08/23	KCA	1
m,p-Xylene	0.313	0.230	0.230	1.36	1.00	1.00	03/08/23	KCA	1
Methyl Ethyl Ketone	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Methyl tert-butyl ether(MTBE)	ND	0.278	0.278	ND	1.00	1.00	03/08/23	KCA	1
Methylene Chloride	ND	0.863	0.863	ND	3.00	3.00	03/08/23	KCA	1
n-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
o-Xylene	ND	0.230	0.230	ND	1.00	1.00	03/08/23	KCA	1
Propylene	ND	0.581	0.581	ND	1.00	1.00	03/08/23	KCA	1
sec-Butylbenzene	ND	0.182	0.182	ND	1.00	1.00	03/08/23	KCA	1
Styrene	ND	0.235	0.235	ND	1.00	1.00	03/08/23	KCA	1
Tetrachloroethene	0.129	0.037	0.037	0.87	0.25	0.25	03/08/23	KCA	1
Tetrahydrofuran	ND	0.339	0.339	ND	1.00	1.00	03/08/23	KCA	1
Toluene	0.672	0.266	0.266	2.53	1.00	1.00	03/08/23	KCA	1
Trans-1,2-Dichloroethene	ND	0.252	0.252	ND	1.00	1.00	03/08/23	KCA	1
trans-1,3-Dichloropropene	ND	0.221	0.221	ND	1.00	1.00	03/08/23	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	03/08/23	KCA	1
Trichlorofluoromethane	0.278	0.178	0.178	1.56	1.00	1.00	03/08/23	KCA	1
Trichlorotrifluoroethane	ND	0.131	0.131	ND	1.00	1.00	03/08/23	KCA	1
Vinyl Chloride	ND	0.078	0.078	ND	0.20	0.20	03/08/23	KCA	1
<u>QA/OC Surrogates/Internals</u>									
% Bromofluorobenzene	118	%	%	118	%	%	03/08/23	KCA	1
% IS-1,4-Difluorobenzene	104	%	%	104	%	%	03/08/23	KCA	1
% IS-Bromochloromethane	112	%	%	112	%	%	03/08/23	KCA	1
% IS-Chlorobenzene-d5	106	%	%	106	%	%	03/08/23	KCA	1

Client ID: IA-3

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution

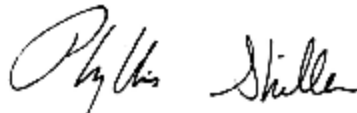
1 = This parameter is not certified by the primary accrediting authority (NY NELAC) for this matrix. NY NELAC does not offer certification for all parameters at this time.

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 (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

March 20, 2023

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

March 20, 2023

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

Location Code: FPMGROUP

SDG I.D.: GCN54079

Project ID: CINDERELLA 248 FLAT BUSH

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
VP-2	CN54079	19816	6.0L	5353	02/23/23	-30	-4	11.2	11.5	2.6	-30	-5	03/02/23 08:17	03/02/23 15:52
VP-3	CN54080	19786	6.0L	10693	02/23/23	-30	0	10.8	11	1.8	-30	-1	03/02/23 08:45	03/02/23 15:48
VP-8	CN54081	28563	6.0L	5600	02/23/23	-30	-5	11	11	0.0	-30	-5	03/02/23 09:29	03/02/23 16:48
VP-7	CN54082	19844	6.0L	4960	02/23/23	-30	-6	11.3	11.6	2.6	-30	-8	03/02/23 09:24	03/02/23 16:43
AMBIENT	CN54083	28603	6.0L	10701	02/23/23	-30	-5	10.6	10.8	1.9	-30	-7	03/02/23 09:14	03/02/23 16:10
VP-4	CN54084	23338	6.0L	10700	02/23/23	-30	-4	11.3	11.5	1.8	-30	-5	03/02/23 09:03	03/02/23 16:26
VP-5	CN54085	23343	6.0L	6235	02/23/23	-30	-6	10.5	10.5	0.0	-30	-8	03/02/23 09:03	03/02/23 16:26
IA-11	CN54086	19931	6.0L	10590	02/23/23	-30	-5	10.6	10.7	0.9	-30	-7	03/02/23 08:31	03/02/23 15:55
VP-6	CN54087	12857	6.0L	5542	02/23/23	-30	-5	11	11.1	0.9	-30	-5	03/02/23 09:05	03/02/23 16:28
IA-2	CN54088	17161	6.0L	10573	02/23/23	-30	-5	11.2	11.4	1.8	-30	-7	03/02/23 08:51	03/02/23 16:16
IA-4	CN54089	13652	6.0L	10603	02/23/23	-30	-5	10.8	10.9	0.9	-30	-6	03/02/23 09:25	03/02/23 16:42
IA-1	CN54090	23329	6.0L	7013	02/23/23	-30	-5	10.9	10.8	0.9	-30	-7	03/02/23 08:31	03/02/23 15:57
VP-1	CN54091	23335	6.0L	10549	02/23/23	-30	-8	10.8	10.8	0.0	-30	-9	03/02/23 08:24	03/02/23 16:08
IA-3	CN54092	228	6.0L	10694	02/23/23	-30	-4	11	11	0.0	-30	-6	03/02/23 09:08	03/02/23 16:27



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



QA/QC Report

March 20, 2023

QA/QC Data

SDG I.D.: GCN54079

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 667296 (ppbv), QC Sample No: CN53500 (CN54082, CN54084, CN54085, CN54087, CN54091)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	107	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	110	36.2	37.1	6.64	6.81	2.5	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	98	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	92	2.71	2.61	0.669	0.646	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	101	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	117	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	111	2.28	2.41	0.465	0.491	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	112	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	88	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	101	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	90	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	117	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	99	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	95	ND	ND	ND	ND	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	104	1.71	1.74	0.348	0.355	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	112	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	93	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	96	80.0	83.1	33.7	35.0	3.8	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	84	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	90	ND	ND	ND	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	110	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	104	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	114	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	96	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	94	11.4	12.0	3.67	3.86	5.0	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	112	47.3	48.7	7.53	7.74	2.8	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	101	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	90	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	101	103	105	21.1	21.6	2.3	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	84	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	92	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	109	4.58	5.22	2.43	2.77	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCN54079

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	69	ND	ND	ND	ND	NC	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	100	3.16	3.29	0.728	0.757	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	87	4.79	4.83	1.17	1.18	NC	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	123	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	88	2.08	2.15	0.591	0.609	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	98	1.47	1.53	0.598	0.622	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	105	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	106	12.6	12.9	2.90	2.98	2.7	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	84	2.29	2.34	0.778	0.794	NC	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	95	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	92	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	108	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	105	3.30	3.42	0.760	0.787	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	80	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	106	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	108	1.23	1.24	0.182	0.183	NC	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	82	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	97	45.6	47.5	12.1	12.6	4.0	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	91	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	105	0.69	0.69	0.129	0.129	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	115	ND	ND	ND	ND	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	92	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	103	%	103	%	101	103	104	103	104	NC	70 - 130	25
% IS-1,4-Difluorobenzene	107	%	107	%	109	106	102	106	102	NC	60 - 140	25
% IS-Bromochloromethane	107	%	107	%	107	108	105	108	105	NC	60 - 140	25
% IS-Chlorobenzene-d5	106	%	106	%	114	110	106	110	106	NC	60 - 140	25

QA/QC Batch 667098 (ppbv), QC Sample No: CN53534 (CN54079 (1X, 5X) , CN54080, CN54081, CN54083, CN54086, CN54088, CN54089, CN54090)

Volatiles

1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	108	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	108	ND	ND	ND	ND	NC	70 - 130	25
1,1,2,2-Tetrachloroethane	ND	0.150	ND	1.03	100	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	94	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	102	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	120	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	112	5.85	5.90	1.19	1.20	0.8	70 - 130	25
1,2-Dibromoethane(EDB)	ND	0.130	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.170	ND	1.02	113	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichloroethane	ND	0.250	ND	1.01	107	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	89	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	115	1.64	1.61	0.333	0.327	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	109	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	117	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	108	ND	ND	ND	ND	NC	70 - 130	25
2-Hexanone(MBK)	ND	0.240	ND	0.98	96	1.56	1.37	0.380	0.334	NC	70 - 130	25
4-Ethyltoluene	ND	0.200	ND	0.98	107	4.44	4.48	0.903	0.912	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCN54079

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
4-Isopropyltoluene	ND	0.180	ND	0.99	113	ND	1.01	ND	0.185	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	96	91.9	94.2	38.7	39.7	2.6	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	85	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	91	1.60	1.62	0.500	0.506	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	104	12.1	12.2	1.80	1.82	1.1	70 - 130	25
Bromoform	ND	0.097	ND	1.00	115	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	97	1.93	1.94	0.621	0.622	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	111	0.62	0.59	0.099	0.094	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	87	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	100	1180	1200	242	246	1.6	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	85	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	92	ND	ND	ND	ND	NC	70 - 130	25
cis-1,3-Dichloropropene	ND	0.220	ND	1.00	99	ND	ND	ND	ND	NC	70 - 130	25
Cyclohexane	ND	0.290	ND	1.00	89	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	110	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	108	2.38	2.42	0.481	0.490	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	116	63.3	63.1	33.6	33.5	0.3	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	70	6.23	6.27	1.73	1.74	0.6	70 - 130	25
Ethylbenzene	ND	0.230	ND	1.00	102	3.94	3.81	0.908	0.879	NC	70 - 130	25
Heptane	ND	0.240	ND	0.98	88	10.6	10.2	2.58	2.48	4.0	70 - 130	25
Hexachlorobutadiene	ND	0.094	ND	1.00	126	ND	ND	ND	ND	NC	70 - 130	25
Hexane	ND	0.280	ND	0.99	89	10.3	10.1	2.92	2.88	1.4	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	105	174 E	176	70.7 E	71.6	1.3	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	108	15.4	15.4	3.55	3.56	0.3	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	86	13.4	13.2	4.53	4.47	1.3	70 - 130	25
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	96	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	92	4.86	4.76	1.40	1.37	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	109	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	107	6.64	6.68	1.53	1.54	0.7	70 - 130	25
Propylene	ND	0.580	ND	1.00	81	ND	ND	ND	ND	NC	70 - 130	25
sec-Butylbenzene	ND	0.180	ND	0.99	111	ND	ND	ND	ND	NC	70 - 130	25
Styrene	ND	0.230	ND	0.98	108	2.45	2.45	0.575	0.576	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	108	6.78	6.91	1.00	1.02	2.0	70 - 130	25
Tetrahydrofuran	ND	0.340	ND	1.00	83	ND	1.75	ND	0.594	NC	70 - 130	25
Toluene	ND	0.270	ND	1.02	98	20.0	20.0	5.31	5.31	0.0	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	93	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	106	0.86	0.83	0.161	0.154	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	112	1.40	1.40	0.250	0.250	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	103	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	92	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	102	%	102	%	104	102	101	102	101	NC	70 - 130	25
% IS-1,4-Difluorobenzene	104	%	104	%	105	107	106	107	106	NC	60 - 140	25
% IS-Bromochloromethane	103	%	103	%	102	104	102	104	102	NC	60 - 140	25
% IS-Chlorobenzene-d5	104	%	104	%	109	110	109	110	109	NC	60 - 140	25

QA/QC Data

SDG I.D.: GCN54079

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 667096 (ppbv), QC Sample No: CN54092 (CN54092)												
Volatiles												
1,1,1,2-Tetrachloroethane	ND	0.150	ND	1.03	107	ND	ND	ND	ND	NC	70 - 130	25
1,1,1-Trichloroethane	ND	0.180	ND	0.98	90	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	95	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethane	ND	0.250	ND	1.01	92	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	112	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.130	ND	0.96	88	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trimethylbenzene	ND	0.200	ND	0.98	105	ND	ND	ND	ND	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	90	ND	ND	ND	ND	NC	70 - 130	25
1,2-dichloropropane	ND	0.220	ND	1.02	92	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorotetrafluoroethane	ND	0.140	ND	0.98	111	ND	ND	ND	ND	NC	70 - 130	25
1,3,5-Trimethylbenzene	ND	0.200	ND	0.98	101	ND	ND	ND	ND	NC	70 - 130	25
1,3-Butadiene	ND	0.450	ND	0.99	102	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.170	ND	1.02	106	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.170	ND	1.02	109	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dioxane	ND	0.280	ND	1.01	85	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	104	ND	ND	ND	ND	NC	70 - 130	25
4-Isopropyltoluene	ND	0.180	ND	0.99	106	ND	ND	ND	ND	NC	70 - 130	25
4-Methyl-2-pentanone(MIBK)	ND	0.240	ND	0.98	97	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	0.420	ND	1.00	104	7.07	7.15	2.98	3.01	1.0	70 - 130	25
Acrylonitrile	ND	0.460	ND	1.00	102	ND	ND	ND	ND	NC	70 - 130	25
Benzene	ND	0.310	ND	0.99	91	1.04	ND	0.325	ND	NC	70 - 130	25
Benzyl chloride	ND	0.190	ND	0.98	113	ND	ND	ND	ND	NC	70 - 130	25
Bromodichloromethane	ND	0.150	ND	1.00	96	ND	ND	ND	ND	NC	70 - 130	25
Bromoform	ND	0.097	ND	1.00	120	ND	ND	ND	ND	NC	70 - 130	25
Bromomethane	ND	0.260	ND	1.01	110	ND	ND	ND	ND	NC	70 - 130	25
Carbon Disulfide	ND	0.320	ND	1.00	70	ND	ND	ND	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.032	ND	0.20	98	0.50	0.48	0.079	0.076	NC	70 - 130	25
Chlorobenzene	ND	0.220	ND	1.01	102	ND	ND	ND	ND	NC	70 - 130	25
Chloroethane	ND	0.380	ND	1.00	121	ND	ND	ND	ND	NC	70 - 130	25
Chloroform	ND	0.200	ND	0.98	96	ND	ND	ND	ND	NC	70 - 130	25
Chloromethane	ND	0.480	ND	0.99	109	1.21	1.19	0.585	0.575	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	89	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	88	ND	ND	ND	ND	NC	70 - 130	25
Dibromochloromethane	ND	0.120	ND	1.02	112	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	99	2.13	2.24	0.431	0.454	NC	70 - 130	25
Ethanol	ND	0.530	ND	1.00	139	9.8	11.2	5.19	5.96	13.8	70 - 130	25
Ethyl acetate	ND	0.280	ND	1.01	66	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	96	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	89	1.05	ND	0.298	ND	NC	70 - 130	25
Isopropylalcohol	ND	0.410	ND	1.01	111	2.13	2.05	0.867	0.835	NC	70 - 130	25
Isopropylbenzene	ND	0.200	ND	0.98	104	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.230	ND	1.00	100	1.36	1.33	0.313	0.306	NC	70 - 130	25
Methyl Ethyl Ketone	ND	0.340	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25

QA/QC Data

SDG I.D.: GCN54079

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
Methyl tert-butyl ether(MTBE)	ND	0.280	ND	1.01	93	ND	ND	ND	ND	NC	70 - 130	25
Methylene Chloride	ND	0.860	ND	2.99	112	ND	ND	ND	ND	NC	70 - 130	25
n-Butylbenzene	ND	0.180	ND	0.99	107	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.230	ND	1.00	95	ND	ND	ND	ND	NC	70 - 130	25
Propylene	ND	0.580	ND	1.00	99	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	98	ND	ND	ND	ND	NC	70 - 130	25
Tetrachloroethene	ND	0.037	ND	0.25	102	0.87	0.85	0.129	0.125	NC	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	97	2.53	2.46	0.672	0.653	NC	70 - 130	25
Trans-1,2-Dichloroethene	ND	0.250	ND	0.99	93	ND	ND	ND	ND	NC	70 - 130	25
trans-1,3-Dichloropropene	ND	0.220	ND	1.00	101	ND	ND	ND	ND	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	97	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.180	ND	1.01	110	1.56	1.54	0.278	0.275	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.130	ND	1.00	113	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.078	ND	0.20	105	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	110	%	110	%	99	118	112	118	112	NC	70 - 130	25
% IS-1,4-Difluorobenzene	110	%	110	%	109	104	101	104	101	NC	60 - 140	25
% IS-Bromochloromethane	117	%	117	%	117	112	106	112	106	NC	60 - 140	25
% IS-Chlorobenzene-d5	109	%	109	%	128	106	104	106	104	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

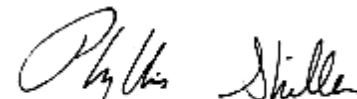
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
March 20, 2023

Sample Criteria Exceedances Report
GCN54079 - FPMGROUP

Criteria: None

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** 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.



Phoenix Environmental Laboratories, Inc.
150 East Main Street, P.O. Box 375, Henderson, NV 89002
Telephone: 302-651-1100 • Fax: 302-651-1001

FPM GROUP

CHAIN OF CUSTODY RECORD

AIR ANALYSES

860-645-1102

email: greg@phoenixlabs.com

P.O. #

Page 1 of 2

Data Delivery:

Fax #:

Email:

Phone #:

Report to: Chris DiSclafani

Customer: FPM Group

Address: 640 Johnson Avenue, Suite 101

14363 Bohemia, NY 11716

Project Name: Cinderella 248 Flat Box II

Invoice to:

Sampled by: CJ

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)	Outgoing Canister Pressure (PSI)	Incoming Canister Pressure (PSI)	Flow Controller Setting (mL/min)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (PSI)	Canister Pressure at End (PSI)	Soil Gas	Ambient/Indoor Air	Grab (S) Composite (C)	TO-15	ANALYSES
54079	VP-2	19816	6.0L	-30	-4	5553	11.2	11.2	8:17	8:52	3/2	-30	-5	X	X	X	X	
54080	VP-3	19786	6.0L	-30	0	10693	10.8	10.8	8:45	8:48	3/2	-30	-1	X	X	X	X	
54081	VP-6	28553	6.0L	-30	-5	5560	11	11	9:29	16:48	3/2	-30	-5	X	X	X	X	
54082	VP-7	19844	6.0L	-30	-6	4960	11.3	11.3	9:24	16:15	3/2	-30	-6	X	X	X	X	
54083	AMBIENT	28503	6.0L	-30	-5	10701	10.6	10.6	9:14	16:10	3/2	-30	-7	X	X	X	X	
54084	VP-4	23338	6.0L	-30	-4	10700	11.3	11.3	8:49	16:17	3/2	-30	-5	X	X	X	X	
54085	VP-5	23343	6.0L	-30	-6	6235	10.5	10.5	9:03	16:26	3/2	-30	-8	X	X	X	X	
54086	IA-11	19931	6.0L	-30	-5	10590	10.6	10.6	8:31	15:55	3/2	-30	-7	X	X	X	X	
54087	VP-6	12867	6.0L	-30	-5	5542	11	11	9:05	16:28	3/2	-30	-5	X	X	X	X	
54088	IA-2	17161	6.0L	-30	-5	10573	11.2	11.2	8:51	16:16	3/2	-30	-7	X	X	X	X	

Relinquished by: CJ FPM
Accepted by: z m
Date: 3/17/23
Time: 9:38
Signature: CJ
Date: 3/17/23
Time: 1500

State Where Samples Collected: NY
Requested Criteria: (Please Circle) MA: NI NE: NI PA: NI VT: NI

Turnaround Time:	Requested Criteria:	Indoor Air:	Indoor Air:	Indoor Air:	Vapor Intrusion	Indoor Air:	Indoor Air:	Indoor Air:
1 Day* ☐	TAC I/C	Residential	Residential	Residential		Residential	Residential	Residential
2 Day* ☐	TAC RES	Ind/Commercial	Ind/Commercial	Ind/Commercial		Non-residential	Non-residential	Non-residential
3 Day* ☐	SVVC I/C	Soil Gas	Soil Gas	Soil Gas		Industrial	Industrial	Industrial
4 Day* ☐	SVVC RES	Residential	Residential	Residential		Sub-slab	Sub-slab	Sub-slab
5 Day* ☐	GWV I/C	Ind/Commercial	Ind/Commercial	Ind/Commercial		Industrial	Industrial	Industrial
Standard ☒	GWV RES							
*SURCHARGES MAY APPLY								

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:

(15) - 6.0L 8 hr, 45ft Tubing, 15 Connectors



SOP for Media Transfer: P.O. Box 120, Northridge, CA 91329
Tel: (805) 304-1117 • Fax: (805) 304-1123

PPM GROUP

CHAIN OF CUSTODY RECORD AIR ANALYSES

860-645-1102
email: greg@phoenixlabs.com

P.O. #

Page 2 of 2

Data Delivery:

☐ Fax #:

☐ Email:

☐ Phone #:

Report to:	Chris DiSclafani	Project Name:	Cinderella 248 Flat Bush	Data Format:	(Circle) Equis	Excel	Other:										
Customer:	FPM Group	Invoice to:		Requested Deliverable:	RCP	ASP CAT B											
Address:	640 Johnson Avenue, Suite 101	Sampled by:		Quote Number:													
14363	Bohemia, NY 11716																
Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (PSI)	Incoming Canister Pressure (PSI)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (PSI)	Canister Pressure at End (PSI)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	PH
THIS SECTION FOR LAB USE ONLY																	
54089	IA-4	28553	6.0L	-30	-29	6982	11	9:25	16:42	3/2	-30	-6	X			X	
54090	IA-1	13652	6.0L	-30	-5	10603	10.8	6:31	15:57	3/2	-30	-7	X			X	
54091	VP-1	23829	6.0L	-30	-5	7013	10.9	6:24	16:04	3/2	-30	-9	X			X	
54092	IA-3	23335	6.0L	-30	-8	10549	10.8	9:06	16:27	3/2	-30	-6	X			X	
		228	6.0L	-30	-4	10694	11										
Relinquished by: <u>CFD FPM</u> Date: <u>3/17/23</u> Time: <u>9:38</u>																	
Accepted by: <u>Emily</u> Date: <u>3/17/23</u> Time: <u>15:06</u>																	
Signature: <u>CFD</u> Date: <u>3/23/23</u>																	
State Where Samples Collected: <u>NY</u>																	
SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:																	
(15) - 6.0L 5 hr, 45R Tubing, 15 Connectors																	
(X) Received unused																	
T turnaround Time: ☐ 1 Day* ☐ 2 Day* ☐ 3 Day* ☐ 4 Day* ☐ 5 Day* ☒ Standard																	
*SURCHARGES MAY APPLY																	
Requested Criteria: MA: Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial Vapor Intrusion																	
NI: Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial Vapor Intrusion																	
NY: Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial Vapor Intrusion																	
VT: Indoor Air: Residential Ind/Commercial Soil Gas: Residential Ind/Commercial Vapor Intrusion																	



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

CINDERELLA 248 FLAT BUSH

Laboratory Project: GCN54079

Volatile TO15
Ver 1

SDG: GCN54079

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDERELLA 248 FLAT BUSH, FPM Group

Form 1 (Analysis):

No observations noted.

Detailed reference spectra will print "below cal" for the full scan compounds that are reported from the SIM and are below the lowest calibration point in the full scan analysis.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CN54092 LCS

All LCS recoveries met criteria with the following exceptions: Ethanol 139%, Ethyl acetate 66%

Sample: CN53534 LCS

All LCS recoveries met criteria with the following exceptions: None.

Sample: CN53500 LCS

All LCS recoveries met criteria with the following exceptions: Ethyl acetate 69%

Form 4 (Method Blank):

File: CHEM39 0307_04.D

All compounds were non-detect with the following exceptions: None.

File: CHEM20 0307_05.D

All compounds were non-detect with the following exceptions: None.

File: CHEM39 0308_04.D

All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM20 0302_03.D

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

File: CHEM20 0307_02.D

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

File: CHEM39 0302_01.D

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

File: CHEM39 0307_01.D

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

File: CHEM39 0308_01.D

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



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



SDG: GCN54079

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDERELLA 248 FLAT BUSH, FPM Group

Form 6 (Initial Calibration):

Calibration: CHEM20 03/02/23 - 03/02/23
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM39 03/02/23 - 03/03/23
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM20 0307_02.D (Opening)
96% of method compounds met criteria.
The following compounds did not meet maximum % deviations: Chloroethane -37.5% (30), Ethanol -52.6% (30), 1,4-Dioxane 36.4% (30), Benzyl chloride 31.0% (30), 1,4-Dioxane(sim) 33.2% (30)

File: CHEM39 0307_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

File: CHEM39 0308_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

File: CHEM20 - 20_AIR_0303.M / 0307_02.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0303.M / 0307_02.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0303.M / Average Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM20 - 20_AIR_0303.M / Average Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0303.M / 0307_01.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0303.M / 0307_01.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0303.M / 0308_01.D Full
All samples met internal standard area and retention time criteria with the following exceptions: None.

File: CHEM39 - 39_AIR_0303.M / 0308_01.D Sim
All samples met internal standard area and retention time criteria with the following exceptions: None.



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



SDG: GCN54079

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: CINDERELLA 248 FLAT BUSH, FPM Group

File: CHEM39 - 39_AIR_0303.M / Average Full

All samples met internal standard area and retention time criteria with the following exceptions:

0302_15.D - ICAL 25: Chlorobenzene-d5; Area 891598 (366366 - 865116)

0302_16.D - ICAL 40: Chlorobenzene-d5; Area 1200936 (366366 - 865116)

File: CHEM39 - 39_AIR_0303.M / Average Sim

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

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.

03/13/23

Alejandro Paredes

Project Manager

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.

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SDG: GCN54079

QC Batch Id: 667296 QC Sample Id: CN53500

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CN53500 LCS	CN53500 LCS	101				0
02	CN53500 BLANK	CN53500 BLANK	103				0
03	CN53500 QC	CN53500 QC	103				0
04	53500 dup	CN53500 DUP	104				0
05	VP-7	CN54082	102				0
06	VP-4	CN54084	103				0
07	VP-5	CN54085	104				0
08	VP-6	CN54087	104				0
09	VP-1	CN54091	104				0
10							
11							
12							
13							
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26							
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29							
30							

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

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Lab Name:

Phoenix Environmental Labs

Client:

FPMGROUP

Lab Code:

Phoenix

Case No.:

SDG:

GCN54079

QC Batch Id:

667098

QC Sample Id:

CN53534

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CN53534 LCS	CN53534 LCS	104				0
02	CN53534 BLANK	CN53534 BLANK	102				0
03	CN53534 QC	CN53534 QC	102				0
04	53534 dup	CN53534 DUP	101				0
05	CN53534 QC 10X	CN53534 QC 10X	101				0
06	AMBIENT	CN54083	101				0
07	IA-11	CN54086	102				0
08	IA-2	CN54088	102				0
09	IA-4	CN54089	103				0
10	IA-1	CN54090	104				0
11	VP-2 5X	CN54079 5X	103				0
12	VP-2	CN54079	102				0
13	VP-3	CN54080	103				0
14	VP-8	CN54081	102				0
15							
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29							
30							

SMC1	BFB	Bromofluorobenzene	<u>QC LIMITS</u> (70-130)

FORM II AIR

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No.: SDG: GCN54079
 QC Batch Id: 667096 QC Sample Id: CN54092

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CN54092 LCS	CN54092 LCS	99				0
02	CN54092 BLANK	CN54092 BLANK	110				0
03	IA-3	CN54092	118				0
04	IA-3 DUP	CN54092 DUP	112				0
05							
06							
07							
08							
09							
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11							
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30							

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

Page 69 of 553

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCN54079
 LCS - Client Id: CN53500 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		8.004	80	70	130
Dichlorodifluoromethane	10		10.87	109	70	130
Chloromethane	10		8.433	84	70	130
1,2-Dichlorotetrafluoroethane	10		10.12	101	70	130
Vinyl Chloride	10		9.182	92	70	130
1,3-Butadiene	10		8.997	90	70	130
Bromomethane	10		9.613	96	70	130
Chloroethane	10		8.955	90	70	130
Ethanol	10		10.93	109	70	130
Acetone	10		9.567	96	70	130
Trichlorofluoromethane	10		11.47	115	70	130
Isopropylalcohol	10		9.761	98	70	130
Acrylonitrile	10		8.412	84	70	130
1,1-Dichloroethene	10		10.14	101	70	130
Methylene Chloride	10		9.174	92	70	130
Carbon Disulfide	10		9.427	94	70	130
Trichlorotrifluoroethane	10		9.894	99	70	130
Trans-1,2-Dichloroethene	10		9.083	91	70	130
1,1-Dichloroethane	10		9.181	92	70	130
Methyl tert-butyl ether(MTBE)	10		9.461	95	70	130
Methyl Ethyl Ketone	10		8.380	84	70	130
Cis-1,2-Dichloroethene	10		9.156	92	70	130
Hexane	10		8.811	88	70	130
Chloroform	10		10.08	101	70	130
Ethyl acetate	10		6.856	69 *	70	130
Tetrahydrofuran	10		8.167	82	70	130
1,2-Dichloroethane	10		10.66	107	70	130
1,1,1-Trichloroethane	10		10.97	110	70	130
Benzene	10		8.953	90	70	130
Carbon Tetrachloride	10		11.22	112	70	130
Cyclohexane	10		8.937	89	70	130
1,2-dichloropropane	10		8.758	88	70	130
Bromodichloromethane	10		10.38	104	70	130
Trichloroethene	10		10.48	105	70	130
1,4-Dioxane	10		9.873	99	70	130
Heptane	10		8.673	87	70	130
cis-1,3-Dichloropropene	10		9.866	99	70	130
4-Methyl-2-pentanone(MIBK)	10		9.331	93	70	130
trans-1,3-Dichloropropene	10		10.25	103	70	130
1,1,2-Trichloroethane	10		9.766	98	70	130
Toluene	10		9.658	97	70	130
Dibromochloromethane	10		10.95	110	70	130
2-Hexanone(MBK)	10		9.496	95	70	130
1,2-Dibromoethane(EDB)	10		10.15	102	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 GCN54079
 LCS - Client Id: CN53534 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		8.114	81	70	130
Dichlorodifluoromethane	10		10.82	108	70	130
Chloromethane	10		8.540	85	70	130
1,2-Dichlorotetrafluoroethane	10		10.12	101	70	130
Vinyl Chloride	10		9.246	92	70	130
1,3-Butadiene	10		9.181	92	70	130
Bromomethane	10		9.688	97	70	130
Chloroethane	10		8.718	87	70	130
Ethanol	10		11.63	116	70	130
Acetone	10		9.554	96	70	130
Trichlorofluoromethane	10		11.21	112	70	130
Isopropylalcohol	10		10.48	105	70	130
Acrylonitrile	10		8.458	85	70	130
1,1-Dichloroethene	10		10.24	102	70	130
Methylene Chloride	10		9.167	92	70	130
Carbon Disulfide	10		9.660	97	70	130
Trichlorotrifluoroethane	10		10.32	103	70	130
Trans-1,2-Dichloroethene	10		9.317	93	70	130
1,1-Dichloroethane	10		9.408	94	70	130
Methyl tert-butyl ether(MTBE)	10		9.632	96	70	130
Methyl Ethyl Ketone	10		8.580	86	70	130
Cis-1,2-Dichloroethene	10		9.184	92	70	130
Hexane	10		8.860	89	70	130
Chloroform	10		10.03	100	70	130
Ethyl acetate	10		7.027	70	70	130
Tetrahydrofuran	10		8.305	83	70	130
1,2-Dichloroethane	10		10.66	107	70	130
1,1,1-Trichloroethane	10		10.78	108	70	130
Benzene	10		9.107	91	70	130
Carbon Tetrachloride	10		11.11	111	70	130
Cyclohexane	10		8.912	89	70	130
1,2-dichloropropane	10		8.892	89	70	130
Bromodichloromethane	10		10.38	104	70	130
Trichloroethene	10		10.61	106	70	130
1,4-Dioxane	10		10.76	108	70	130
Heptane	10		8.817	88	70	130
cis-1,3-Dichloropropene	10		9.935	99	70	130
4-Methyl-2-pentanone(MIBK)	10		9.530	95	70	130
trans-1,3-Dichloropropene	10		10.34	103	70	130
1,1,2-Trichloroethane	10		9.851	99	70	130
Toluene	10		9.774	98	70	130
Dibromochloromethane	10		11.01	110	70	130
2-Hexanone(MBK)	10		9.632	96	70	130
1,2-Dibromoethane(EDB)	10		10.26	103	70	130

FORM III AIR

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix

Case No:

SAS No:

SDG No: GCN54079

LCS - Client Id: CN53534 LCS

[illegible]

3
AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: FPMGROUP
 Lab Code: Phoenix Case No: _____ SAS No: _____ SDG No GCN54079
 LCS - Client Id: CN54092 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Propylene	10		9.861	99	70	130
Dichlorodifluoromethane	10		9.942	99	70	130
Chloromethane	10		10.88	109	70	130
1,2-Dichlorotetrafluoroethane	10		11.07	111	70	130
Vinyl Chloride	10		10.46	105	70	130
1,3-Butadiene	10		10.25	103	70	130
Bromomethane	10		11.01	110	70	130
Chloroethane	10		12.11	121	70	130
Ethanol	10		13.86	139 *	70	130
Acetone	10		10.37	104	70	130
Trichlorofluoromethane	10		10.99	110	70	130
Isopropylalcohol	10		11.11	111	70	130
Acrylonitrile	10		10.20	102	70	130
1,1-Dichloroethene	10		11.20	112	70	130
Methylene Chloride	10		11.15	112	70	130
Carbon Disulfide	10		7.001	70	70	130
Trichlorotrifluoroethane	10		11.30	113	70	130
Trans-1,2-Dichloroethene	10		9.274	93	70	130
1,1-Dichloroethane	10		9.169	92	70	130
Methyl tert-butyl ether(MTBE)	10		9.263	93	70	130
Methyl Ethyl Ketone	10		9.483	95	70	130
Cis-1,2-Dichloroethene	10		8.941	89	70	130
Hexane	10		8.921	89	70	130
Chloroform	10		9.622	96	70	130
Ethyl acetate	10		6.621	66 *	70	130
Tetrahydrofuran	10		9.128	91	70	130
1,2-Dichloroethane	10		8.954	90	70	130
1,1,1-Trichloroethane	10		9.038	90	70	130
Benzene	10		9.121	91	70	130
Carbon Tetrachloride	10		9.784	98	70	130
Cyclohexane	10		8.835	88	70	130
1,2-dichloropropane	10		9.187	92	70	130
Bromodichloromethane	10		9.607	96	70	130
Trichloroethene	10		9.743	97	70	130
1,4-Dioxane	10		8.511	85	70	130
Heptane	10		9.612	96	70	130
cis-1,3-Dichloropropene	10		9.702	97	70	130
4-Methyl-2-pentanone(MIBK)	10		9.666	97	70	130
trans-1,3-Dichloropropene	10		10.08	101	70	130
1,1,2-Trichloroethane	10		9.450	95	70	130
Toluene	10		9.700	97	70	130
Dibromochloromethane	10		11.19	112	70	130
2-Hexanone(MBK)	10		10.41	104	70	130
1,2-Dibromoethane(EDB)	10		10.10	101	70	130

FORM III AIR

LCS - Client Id: CN54092 LCS

[illegible]

4A
AIR METHOD BLANK SUMMARY

Client ID

CN53500 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN54079

Lab File ID: 0308_04.D

Lab Sample ID: CN53500 BLK

Date Analyzed: 03/08/2023

Time Analyzed: 12:41

GC Column: RTX-1 ; #10157

Lab Batch ID: 667296

Instrument ID: CHEM39

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	CN53500 LCS	CN53500 LCS	0308_03.D	12:05
02	CN53500 QC	CN53500	0308_06.D	14:01
03	53500 dup	CN53500 DUP	0308_07.D	14:38
04	VP-7	CN54082	0308_08.D	15:17
05	VP-4	CN54084	0308_09.D	15:56
06	VP-5	CN54085	0308_10.D	16:36
07	VP-6	CN54087	0308_11.D	17:15
08	VP-1	CN54091	0308_12.D	17:55
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COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CN53534 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN54079

Lab File ID: 0307_04.D

Lab Sample ID: CN53534 BLK

Date Analyzed: 03/07/2023

Time Analyzed: 13:02

GC Column: RTX-1 ; #10157

Lab Batch ID: 667098

Instrument ID: CHEM39

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	CN53534 LCS	CN53534 LCS	0307_03.D	12:27
02	CN53534 QC	CN53534	0307_05.D	13:42
03	53534 dup	CN53534 DUP	0307_06.D	14:22
04	CN53534 QC 10X	CN53534 10X	0307_08.D	15:40
05	AMBIENT	CN54083	0307_19.D	22:33
06	IA-11	CN54086	0307_20.D	23:12
07	IA-2	CN54088	0307_21.D	23:51
08	IA-4	CN54089	0307_22.D	00:31
09	IA-1	CN54090	0307_23.D	01:10
10	VP-2 5X	CN54079 5X	0307_24.D	01:46
11	VP-2	CN54079	0307_32.D	08:44
12	VP-3	CN54080	0307_33.D	09:23
13	VP-8	CN54081	0307_34.D	10:02
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COMMENTS:

FORM IV AIR

4A
AIR METHOD BLANK SUMMARY

Client ID

CN54092 BLANK

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN54079

Lab File ID: 0307_05.D

Lab Sample ID: CN54092 BLK

Date Analyzed: 03/07/2023

Time Analyzed: 12:12

GC Column: RTX-1 60M

Lab Batch ID: 667096

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	CN54092 LCS	CN54092 LCS	0307_04.D	11:41
02	IA-3	CN54092	0307_27.D	00:18
03	IA-3 DUP	CN54092 DUP	0307_28.D	00:52
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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.: GCN54079

Lab File ID: 0302_03.D

BFB Injection Date: 03/02/23

Instrument ID: CHEM20

BFB Injection Time: 14:03

GC Column: RTX-1 60M

Heated Purge: (Y/N) Y

AutoFind: Scans 793, 794, 795; Background Corrected with Scan 787

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	26.7
75	30.0 - 66.0% of mass 95	53.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.0
173	Less than 2.0% of mass 174	0.6 (0.6)1
174	50.0 - 120.0% of mass 95	98.3
175	4.0 - 9.0% of mass 174	8.0 (7.9)1
176	93.0 - 101.0% of mass 174	99.4 (97.8)1
177	5.0 - 9.0% of mass 176	5.8 (5.7)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 ppbV ; AirTO1501Y	0302_06.D	03/02/23	16:10	
02	ICAL 0.02	0.02 ppbV ; AirTO1501y	0302_07.D	03/02/23	16:41	
03	ICAL 0.035	0.035 ppbV ; AirTO1501Y	0302_08.D	03/02/23	17:13	
04	ICAL 0.05	0.05 ppbV ; AirTO1501Y	0302_09.D	03/02/23	17:47	
05	ICAL 0.1	0.10 ppbV ; AirTO1501Y	0302_10.D	03/02/23	18:18	
06	ICAL 0.2	0.20 ppbV ; AirTO1501Y	0302_11.D	03/02/23	18:49	
07	ICAL 0.5	0.50 ppbV ; AirTO1501Y	0302_12.D	03/02/23	19:22	
08	ICAL 2.5	2.5 ppbV ; AirTO1502B	0302_13.D	03/02/23	19:55	
09	ICAL 5	5.0 ppbV ; AirTO1501Z	0302_14.D	03/02/23	20:26	
10	ICAL 25	25 ppbV ; AirTO1501Z	0302_15.D	03/02/23	20:59	
11	ICAL 40	40 ppbV ; AirTO1501Z	0302_16.D	03/02/23	21:34	
12	ICAL 1	1.0 ppbV ; AirTO1502B	0302_17.D	03/02/23	22:05	
13	ICAL 10	10 ppbV ; AirTO1501Z	0302_18.D	03/02/23	22:36	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_03.D
 Acq On : 2 Mar 2023 2:03 pm
 Operator :
 Sample : 0/0 ; ISTD AIR35A
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

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

Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 12:03:07 2023

AutoFind: Scans 793, 794, 795; Background Corrected with Scan 787

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	26.7	101157	PASS
75	95	30	66	53.8	204217	PASS
95	95	100	100	100.0	379499	PASS
96	95	5	9	6.0	22908	PASS
173	174	0.00	2	0.6	2393	PASS
174	95	50	120	98.3	373163	PASS
175	174	4	9	8.0	30014	PASS
176	174	93	101	99.4	371072	PASS
177	176	5	9	5.8	21572	PASS

20_AIR_0303.M Fri Mar 03 12:05:18 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN54079

Lab File ID: 0307_02.D BFB Injection Date: 03/07/23

Instrument ID: CHEM20 BFB Injection Time: 10:37

GC Column: RTX-1 60M Heated Purge: (Y/N) Y

AutoFind: Scans 793, 794, 795; Background Corrected with Scan 787

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	30.6
75	30.0 - 66.0% of mass 95	60.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.3 (0.2)1
174	50.0 - 120.0% of mass 95	118.0
175	4.0 - 9.0% of mass 174	7.2 (8.5)1
176	93.0 - 101.0% of mass 174	95.3 (112.0)1
177	5.0 - 9.0% of mass 176	7.0 (7.8)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	1ppb ccal	0307_02.D	03/07/23	10:37	
02	CN54092 LCS	CN54092 LCS	0307_04.D	03/07/23	11:41	
03	CN54092 BLANK	CN54092 BLANK	0307_05.D	03/07/23	12:12	
04	IA-3	CN54092	0307_27.D	03/08/23	00:18	
05	IA-3 DUP	CN54092 DUP	0307_28.D	03/08/23	00:52	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_02.D
 Acq On : 7 Mar 2023 10:37 am
 Operator :
 Sample : 1ppb ccal
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

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

Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 12:06:30 2023

AutoFind: Scans 793, 794, 795; Background Corrected with Scan 787

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	30.6	93885	PASS
75	95	30	66	60.6	186131	PASS
95	95	100	100	100.0	307307	PASS
96	95	5	9	6.2	19177	PASS
173	174	0.00	2	0.2	836	PASS
174	95	50	120	118.0	362560	PASS
175	174	4	9	7.2	26035	PASS
176	174	93	101	95.3	345643	PASS
177	176	5	9	7.0	24093	PASS

20_AIR_0303.M Tue Mar 07 12:08:45 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: FPMGROUP

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCN54079

Lab File ID: 0302_01.D

BFB Injection Date: 03/02/23

Instrument ID: CHEM39

BFB Injection Time: 16:22

GC Column: RTX-1 ; #10157

Heated Purge: (Y/N) Y

AutoFind: Scans 1127, 1128, 1129; Background Corrected with Scan 1120

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	11.0
75	30.0 - 66.0% of mass 95	38.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.7 (0.6)1
174	50.0 - 120.0% of mass 95	113.0
175	4.0 - 9.0% of mass 174	7.0 (7.9)1
176	93.0 - 101.0% of mass 174	97.5 (110.0)1
177	5.0 - 9.0% of mass 176	6.5 (7.2)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 ; to1503p	0302_02.D	03/02/23	16:58	
02	ICAL 0.02	0.02 ; to1503p	0302_03.D	03/02/23	17:35	
03	ICAL 0.035	0.035 ; to1503p	0302_04.D	03/02/23	18:13	
04	ICAL 0.05	0.05 ; to1503p	0302_05.D	03/02/23	18:52	
05	ICAL 0.1	0.10 ; to1503q	0302_06.D	03/02/23	19:28	
06	ICAL 0.2	0.2 ; to1503q	0302_07.D	03/02/23	20:05	
07	ICAL 0.5	0.5 ; to1503q	0302_08.D	03/02/23	20:43	
08	ICAL 2.5	2.5 ; to1503r	0302_09.D	03/02/23	21:22	
09	ICAL 5	5.0 ; to1503s	0302_10.D	03/02/23	21:59	
10	ICAL 25	25 ; to1503s	0302_11.D	03/02/23	23:36	
11	ICAL 40	40 ; to1503s	0302_12.D	03/03/23	00:18	
12	ICAL 1	1.0 ; to1503r	0302_13.D	03/03/23	00:55	
13	ICAL 10	10 ; to1503s	0302_14.D	03/03/23	01:32	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_01.D
 Acq On : 2 Mar 2023 4:22 pm
 Operator :
 Sample : 0/0
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

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

Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 08:03:51 2023

AutoFind: Scans 1127, 1128, 1129; Background Corrected with Scan 1120

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	11.0	83366	PASS
75	95	30	66	38.5	291108	PASS
95	95	100	100	100.0	756290	PASS
96	95	5	9	6.4	48443	PASS
173	174	0.00	2	0.6	5427	PASS
174	95	50	120	113.2	855744	PASS
175	174	4	9	7.0	59880	PASS
176	174	93	101	97.5	834709	PASS
177	176	5	9	6.5	54576	PASS

39_AIR_0303.M Fri Mar 03 08:04:30 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN54079

Lab File ID: 0307_01.D BFB Injection Date: 03/07/23

Instrument ID: CHEM39 BFB Injection Time: 11:09

GC Column: RTX-1 ; #10157 Heated Purge: (Y/N) Y

Spectrum Information: Tune, Average of 11.982 to 12.004 min.; with background subtraction.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	12.4
75	30.0 - 66.0% of mass 95	42.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.0 (0.9)1
174	50.0 - 120.0% of mass 95	116.0
175	4.0 - 9.0% of mass 174	7.6 (8.8)1
176	93.0 - 101.0% of mass 174	96.6 (112.0)1
177	5.0 - 9.0% of mass 176	6.8 (7.6)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	1ppb ccal	0307_01.D	03/07/23	11:09	
02	CN53534 LCS	CN53534 LCS	0307_03.D	03/07/23	12:27	
03	CN53534 BLANK	CN53534 BLANK	0307_04.D	03/07/23	13:02	
04	CN53534 QC	CN53534 QC	0307_05.D	03/07/23	13:42	
05	53534 dup	CN53534 DUP	0307_06.D	03/07/23	14:22	
06	CN53534 QC 10X	CN53534 QC 10X	0307_08.D	03/07/23	15:40	
07	AMBIENT	CN54083	0307_19.D	03/07/23	22:33	
08	IA-11	CN54086	0307_20.D	03/07/23	23:12	
09	IA-2	CN54088	0307_21.D	03/07/23	23:51	
10	IA-4	CN54089	0307_22.D	03/08/23	00:31	
11	IA-1	CN54090	0307_23.D	03/08/23	01:10	
12	VP-2 5X	CN54079 5X	0307_24.D	03/08/23	01:46	
13	VP-2	CN54079	0307_32.D	03/08/23	08:44	
14	VP-3	CN54080	0307_33.D	03/08/23	09:23	
15	VP-8	CN54081	0307_34.D	03/08/23	10:02	
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(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_01.D
 Acq On : 7 Mar 2023 11:09 am
 Operator :
 Sample : 1ppb ccal
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

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

Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 15:50:24 2023

Spectrum Information: Average of 11.982 to 12.004 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.4	24882	PASS
75	95	30	66	42.3	84876	PASS
95	95	100	100	100.0	200502	PASS
96	95	5	9	6.8	13537	PASS
173	174	0.00	2	0.9	2013	PASS
174	95	50	120	116.4	233313	PASS
175	174	4	9	7.6	17642	PASS
176	174	93	101	96.6	225375	PASS
177	176	5	9	6.8	15226	PASS

39_AIR_0303.M Tue Mar 07 11:59:04 2023

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCN54079

Lab File ID: 0308_01.D BFB Injection Date: 03/08/23

Instrument ID: CHEM39 BFB Injection Time: 10:50

GC Column: RTX-1 ; #10157 Heated Purge: (Y/N) Y

Spectrum Information: Tune, Average of 11.973 to 12.004 min.; with background subtraction.

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	12.6
75	30.0 - 66.0% of mass 95	42.8
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	1.0 (0.9)1
174	50.0 - 120.0% of mass 95	115.0
175	4.0 - 9.0% of mass 174	7.5 (8.6)1
176	93.0 - 101.0% of mass 174	97.7 (113.0)1
177	5.0 - 9.0% of mass 176	6.4 (7.2)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	1ppb ccal	0308_01.D	03/08/23	10:50	
02	CN53500 LCS	CN53500 LCS	0308_03.D	03/08/23	12:05	
03	CN53500 BLANK	CN53500 BLANK	0308_04.D	03/08/23	12:41	
04	CN53500 QC	CN53500 QC	0308_06.D	03/08/23	14:01	
05	53500 dup	CN53500 DUP	0308_07.D	03/08/23	14:38	
06	VP-7	CN54082	0308_08.D	03/08/23	15:17	
07	VP-4	CN54084	0308_09.D	03/08/23	15:56	
08	VP-5	CN54085	0308_10.D	03/08/23	16:36	
09	VP-6	CN54087	0308_11.D	03/08/23	17:15	
10	VP-1	CN54091	0308_12.D	03/08/23	17:55	
11						
12						
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14						
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17						
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19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Sample : 1ppb ccal
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

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

Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Mar 08 09:59:54 2023

Spectrum Information: Average of 11.973 to 12.004 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.6	16770	PASS
75	95	30	66	42.8	57135	PASS
95	95	100	100	100.0	133524	PASS
96	95	5	9	6.7	8919	PASS
173	174	0.00	2	0.9	1383	PASS
174	95	50	120	115.4	154088	PASS
175	174	4	9	7.5	11496	PASS
176	174	93	101	97.7	150509	PASS
177	176	5	9	6.4	9633	PASS

39_AIR_0303.M Thu Mar 09 08:24:51 2023

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.: GCN54079
 Lab Method / File Id: 20_AIR_0303.M / Average Date Analyzed: 03/02/23
 Instrument ID: CHEM20 Time Analyzed: 22:05
 GC Column: RTX-1 60M 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	367813	7.53	1429966	8.70	615741	11.18			Average
UPPER LIMIT	516778	7.86	2009102	9.03	865116	11.51			Average
LOWER LIMIT	218849	7.20	850830	8.37	366366	10.85			Average
CLIENT ID									
01 ICAL 0.2	344187	7.52	1339223	8.67	591810	11.13			0302_11.D
02 ICAL 0.5	331988	7.52	1333658	8.67	587858	11.13			0302_12.D
03 ICAL 2.5	344042	7.52	1373003	8.67	628881	11.13			0302_13.D
04 ICAL 5	359484	7.52	1352405	8.67	671283	11.13			0302_14.D
05 ICAL 25	386738	7.52	1400145	8.67	891598 *	11.13			0302_15.D
06 ICAL 40	452809	7.52	1496404	8.67	1200936 *	11.14			0302_16.D
07 ICAL 1	360339	7.52	1384005	8.67	608476	11.13			0302_17.D
08 ICAL 10	356668	7.52	1413725	8.67	686148	11.13			0302_18.D
09									
10									
11									
12									
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16									
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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.: GCN54079
 Lab Method / File Id: 20_AIR_0303.M / Average Date Analyzed: 03/02/23
 Instrument ID: CHEM20 Time Analyzed: 22:05
 GC Column: RTX-1 60M 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	356570	7.53	1473366	8.70	615073	11.18			Average
UPPER LIMIT	500981	7.86	2070079	9.03	864177	11.51			Average
LOWER LIMIT	212159	7.20	876653	8.37	365968	10.85			Average
CLIENT ID									
01 ICAL 0.01	436299	7.53	1456546	8.67	637236	11.13			0302_06.D
02 ICAL 0.02	442706	7.52	1435377	8.67	621203	11.13			0302_07.D
03 ICAL 0.035	435201	7.52	1448852	8.67	622783	11.13			0302_08.D
04 ICAL 0.05	424579	7.52	1373038	8.67	625201	11.13			0302_09.D
05 ICAL 0.1	420171	7.52	1362314	8.67	594914	11.13			0302_10.D
06 ICAL 0.2	412604	7.52	1339223	8.67	591810	11.13			0302_11.D
07 ICAL 0.5	414873	7.52	1333658	8.67	587858	11.13			0302_12.D
08 ICAL 2.5	425593	7.52	1374174	8.67	628689	11.13			0302_13.D
09 ICAL 5	427720	7.52	1352405	8.67	670645	11.13			0302_14.D
10 ICAL 1	427771	7.52	1383865	8.67	608476	11.13			0302_17.D
11 ICAL 10	437905	7.52	1413725	8.67	685998	11.13			0302_18.D
12									
13									
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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
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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.: GCN54079
 Lab Method / File Id: 20_AIR_0303.M / 0307_02.D Date Analyzed: 03/07/23
 Instrument ID: CHEM20 Time Analyzed: 10:37
 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	318448	7.53	1257627	8.67	525952	11.13			0307_02.D
UPPER LIMIT	447419	7.86	1766966	9.00	738963	11.46			0307_02.D
LOWER LIMIT	189477	7.20	748288	8.34	312941	10.80			0307_02.D
CLIENT ID									
01 CCAL 1	318448	7.53	1257627	8.67	525952	11.13			0307_02.D
02 CN54092 LCS	371377	7.52	1366702	8.67	672402	11.13			0307_04.D
03 CN54092 BLANK	372709	7.52	1382601	8.67	571976	11.13			0307_05.D
04 IA-3	358201	7.53	1305536	8.68	556781	11.13			0307_27.D
05 IA-3 DUP	338089	7.53	1266546	8.67	549172	11.13			0307_28.D
06									
07									
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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.: GCN54079
 Lab Method / File Id: 20_AIR_0303.M / 0307_02.D Date Analyzed: 03/07/23
 Instrument ID: CHEM20 Time Analyzed: 10:37
 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	392902	7.52	1259132	8.67	525952	11.13			0307_02.D
UPPER LIMIT	552027	7.85	1769080	9.00	738963	11.46			0307_02.D
LOWER LIMIT	233777	7.19	749184	8.34	312941	10.80			0307_02.D
CLIENT ID									
01 CCAL 1	392902	7.52	1259132	8.67	525952	11.13			0307_02.D
02 CN54092 LCS	436604	7.52	1366702	8.67	671618	11.13			0307_04.D
03 CN54092 BLANK	425184	7.52	1383082	8.67	575441	11.13			0307_05.D
04 IA-3	414258	7.53	1305307	8.68	556931	11.13			0307_27.D
05 IA-3 DUP	394944	7.54	1266546	8.67	548820	11.13			0307_28.D
06									
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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

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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.: GCN54079
 Lab Method / File Id: 39_AIR_0303.M / Average Date Analyzed: 03/03/23
 Instrument ID: CHEM39 Time Analyzed: 0:55
 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	367813	7.53	1429966	8.70	615741	11.18			Average
UPPER LIMIT	516778	7.86	2009102	9.03	865116	11.51			Average
LOWER LIMIT	218849	7.20	850830	8.37	366366	10.85			Average
CLIENT ID									
01 ICAL 0.2	370811	7.53	1438296	8.70	596321	11.18			0302_07.D
02 ICAL 0.5	376662	7.54	1443066	8.70	597897	11.18			0302_08.D
03 ICAL 2.5	365962	7.53	1419742	8.70	588461	11.18			0302_09.D
04 ICAL 5	357919	7.53	1396069	8.70	586980	11.18			0302_10.D
05 ICAL 25	368496	7.53	1449187	8.70	662379	11.18			0302_11.D
06 ICAL 40	372480	7.53	1450343	8.70	690339	11.18			0302_12.D
07 ICAL 1	366842	7.53	1420855	8.70	591082	11.18			0302_13.D
08 ICAL 10	363335	7.53	1422169	8.70	612469	11.18			0302_14.D
09									
10									
11									
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14									
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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: CNS

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: PMGROUP

Lab Method / File Id: 39_AIR_0303.M / Average Date Analyzed: 03/03/23

Instrument ID: CHEM39 Time Analyzed: 0:55

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	356570	7.53	1473366	8.70	615073	11.18			Average
UPPER LIMIT	500981	7.86	2070079	9.03	864177	11.51			Average
LOWER LIMIT	212159	7.20	876653	8.37	365968	10.85			Average
CLIENT ID									
01 ICAL 0.01	388759	7.53	1622566	8.70	662519	11.18			0302_02.D
02 ICAL 0.02	379336	7.53	1556293	8.70	663125	11.18			0302_03.D
03 ICAL 0.035	371397	7.53	1528706	8.70	636790	11.18			0302_04.D
04 ICAL 0.05	363788	7.53	1498711	8.70	622811	11.18			0302_05.D
05 ICAL 0.1	354813	7.53	1460552	8.70	605653	11.18			0302_06.D
06 ICAL 0.2	348572	7.53	1438296	8.70	596321	11.18			0302_07.D
07 ICAL 0.5	351998	7.54	1443066	8.70	599317	11.18			0302_08.D
08 ICAL 2.5	341751	7.53	1419742	8.70	588461	11.18			0302_09.D
09 ICAL 5	334803	7.53	1396069	8.70	587185	11.18			0302_10.D
10 ICAL 1	345030	7.53	1420855	8.70	591082	11.18			0302_13.D
11 ICAL 10	342026	7.53	1422169	8.70	612538	11.18			0302_14.D
12									
13									
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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.: GCN54079
 Lab Method / File Id: 39_AIR_0303.M / 0307_01.D Date Analyzed: 03/07/23
 Instrument ID: CHEM39 Time Analyzed: 11:09
 GC Column: RTX-1 ; #101 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	327985	7.53	1197316	8.70	492706	11.18			0307_01.D
UPPER LIMIT	460819	7.86	1682229	9.03	692252	11.51			0307_01.D
LOWER LIMIT	195151	7.20	712403	8.37	293160	10.85			0307_01.D
CLIENT ID									
01 CCAL 1	327985	7.53	1197316	8.70	492706	11.18			0307_01.D
02 CN53534 LCS	333266	7.53	1254911	8.70	534589	11.18			0307_03.D
03 CN53534 BLANK	338723	7.53	1239974	8.70	512165	11.18			0307_04.D
04 CN53534 QC	339562	7.53	1277364	8.70	541813	11.18			0307_05.D
05 53534 dup	334166	7.53	1266596	8.70	538436	11.18			0307_06.D
06 CN53534 QC 10X	338942	7.53	1247028	8.70	516933	11.18			0307_08.D
07 AMBIENT	321102	7.54	1157550	8.70	482548	11.18			0307_19.D
08 IA-11	319241	7.53	1151720	8.70	476007	11.18			0307_20.D
09 IA-2	316232	7.53	1134997	8.70	473262	11.18			0307_21.D
10 IA-4	302616	7.53	1093944	8.70	453065	11.18			0307_22.D
11 IA-1	308463	7.53	1121121	8.70	459805	11.18			0307_23.D
12 VP-2 5X	306334	7.53	1091820	8.70	451282	11.18			0307_24.D
13 VP-2	307927	7.53	1137667	8.70	475305	11.17			0307_32.D
14 VP-3	293345	7.53	1081473	8.70	444872	11.18			0307_33.D
15 VP-8	294414	7.54	1077630	8.70	447124	11.18			0307_34.D
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.: GCN54079
 Lab Method / File Id: 39_AIR_0303.M / 0307_01.D Date Analyzed: 03/07/23
 Instrument ID: CHEM39 Time Analyzed: 11:09
 GC Column: RTX-1 ; #101 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	313745	7.53	1197316	8.70	492706	11.18			0307_01.D
UPPER LIMIT	440812	7.86	1682229	9.03	692252	11.51			0307_01.D
LOWER LIMIT	186678	7.20	712403	8.37	293160	10.85			0307_01.D
CLIENT ID									
01 CCAL 1	313745	7.53	1197316	8.70	492706	11.18			0307_01.D
02 CN53534 LCS	317792	7.53	1255423	8.70	534080	11.18			0307_03.D
03 CN53534 BLANK	322695	7.53	1239974	8.70	512165	11.18			0307_04.D
04 CN53534 QC	324891	7.53	1278324	8.70	541819	11.18			0307_05.D
05 53534 dup	321806	7.53	1268417	8.70	538436	11.18			0307_06.D
06 CN53534 QC 10X	325430	7.53	1247028	8.70	516933	11.18			0307_08.D
07 AMBIENT	303440	7.53	1157034	8.70	482548	11.18			0307_19.D
08 IA-11	302281	7.53	1151720	8.70	476007	11.18			0307_20.D
09 IA-2	299196	7.53	1134997	8.70	473262	11.18			0307_21.D
10 IA-4	290750	7.53	1093944	8.70	453065	11.18			0307_22.D
11 IA-1	295633	7.53	1121121	8.70	460227	11.18			0307_23.D
12 VP-2 5X	291616	7.53	1091820	8.70	451282	11.18			0307_24.D
13 VP-2	299868	7.53	1137053	8.70	475481	11.17			0307_32.D
14 VP-3	284514	7.53	1080874	8.70	444639	11.18			0307_33.D
15 VP-8	283345	7.53	1077768	8.70	446615	11.18			0307_34.D
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.: GCN54079
 Lab Method / File Id: 39_AIR_0303.M / 0308_01.D Date Analyzed: 03/08/23
 Instrument ID: CHEM39 Time Analyzed: 10:50
 GC Column: RTX-1 ; #101 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	296213	7.53	1096451	8.69	450060	11.18			0308_01.D
UPPER LIMIT	416179	7.86	1540514	9.02	632334	11.51			0308_01.D
LOWER LIMIT	176247	7.20	652388	8.36	267786	10.85			0308_01.D
CLIENT ID									
01 CCAL 1	296213	7.53	1096451	8.69	450060	11.18			0308_01.D
02 CN53500 LCS	316254	7.53	1196182	8.69	514855	11.18			0308_03.D
03 CN53500 BLANK	317726	7.53	1175533	8.70	477661	11.18			0308_04.D
04 CN53500 QC	318765	7.53	1164981	8.70	493881	11.17			0308_06.D
05 53500 dup	310516	7.53	1123181	8.70	476934	11.17			0308_07.D
06 VP-7	306508	7.53	1115610	8.70	467011	11.18			0308_08.D
07 VP-4	312968	7.53	1121458	8.70	468945	11.17			0308_09.D
08 VP-5	307180	7.53	1121615	8.70	465004	11.17			0308_10.D
09 VP-6	298431	7.53	1084764	8.70	444562	11.18			0308_11.D
10 VP-1	305614	7.53	1117135	8.70	465874	11.18			0308_12.D
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.: GCN54079
 Lab Method / File Id: 39_AIR_0303.M / 0308_01.D Date Analyzed: 03/08/23
 Instrument ID: CHEM39 Time Analyzed: 10:50
 GC Column: RTX-1 ; #101 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	288717	7.53	1096195	8.69	450060	11.18			0308_01.D
UPPER LIMIT	405647	7.86	1540154	9.02	632334	11.51			0308_01.D
LOWER LIMIT	171787	7.20	652236	8.36	267786	10.85			0308_01.D
CLIENT ID									
01 CCAL 1	288717	7.53	1096195	8.69	450060	11.18			0308_01.D
02 CN53500 LCS	304468	7.53	1196182	8.69	514929	11.18			0308_03.D
03 CN53500 BLANK	304143	7.53	1174689	8.70	477661	11.18			0308_04.D
04 CN53500 QC	304893	7.53	1164981	8.70	493881	11.17			0308_06.D
05 53500 dup	296976	7.53	1123181	8.70	476934	11.17			0308_07.D
06 VP-7	295970	7.53	1115519	8.70	467011	11.18			0308_08.D
07 VP-4	298214	7.53	1121458	8.70	468945	11.17			0308_09.D
08 VP-5	295552	7.53	1121615	8.70	465004	11.17			0308_10.D
09 VP-6	290150	7.53	1084764	8.70	444562	11.18			0308_11.D
10 VP-1	294884	7.53	1117135	8.70	466561	11.18			0308_12.D
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

IS1 (BCM) = Bromochloromethane
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 AREA LOWER LIMIT = - 60% of internal standard area
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 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

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54079

Canister: 19816 Lab File ID: 0307_32.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

Matrix: AIR Dilution Factor: 1

VP-2

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	0.486		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	43.4	ES	0.531	0.531	
67-64-1	Acetone	98.7	ES	0.421	0.421	
75-69-4	Trichlorofluoromethane	0.242		0.178	0.178	r
67-63-0	Isopropylalcohol	3.30	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	0.989		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
141-78-6	Ethyl acetate	0.809		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
123-91-1	1,4-Dioxane	0.685		0.278	0.278	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	0.458		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	5.37		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

Client: FPMGROUP Lab: Phoenix Env. Labs

VP-2

SDG No.: GCN54079

Lab Sample ID: CN54079

Canister: 19816

Lab File ID: 0307_32.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/08/23

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)	0.067		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
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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_32.D
 Acq On : 8 Mar 2023 8:44 am
 Operator :
 Client ID : VP-2
 Lab ID : CN54079
 ALS Vial : 23 Sample Multiplier: 1

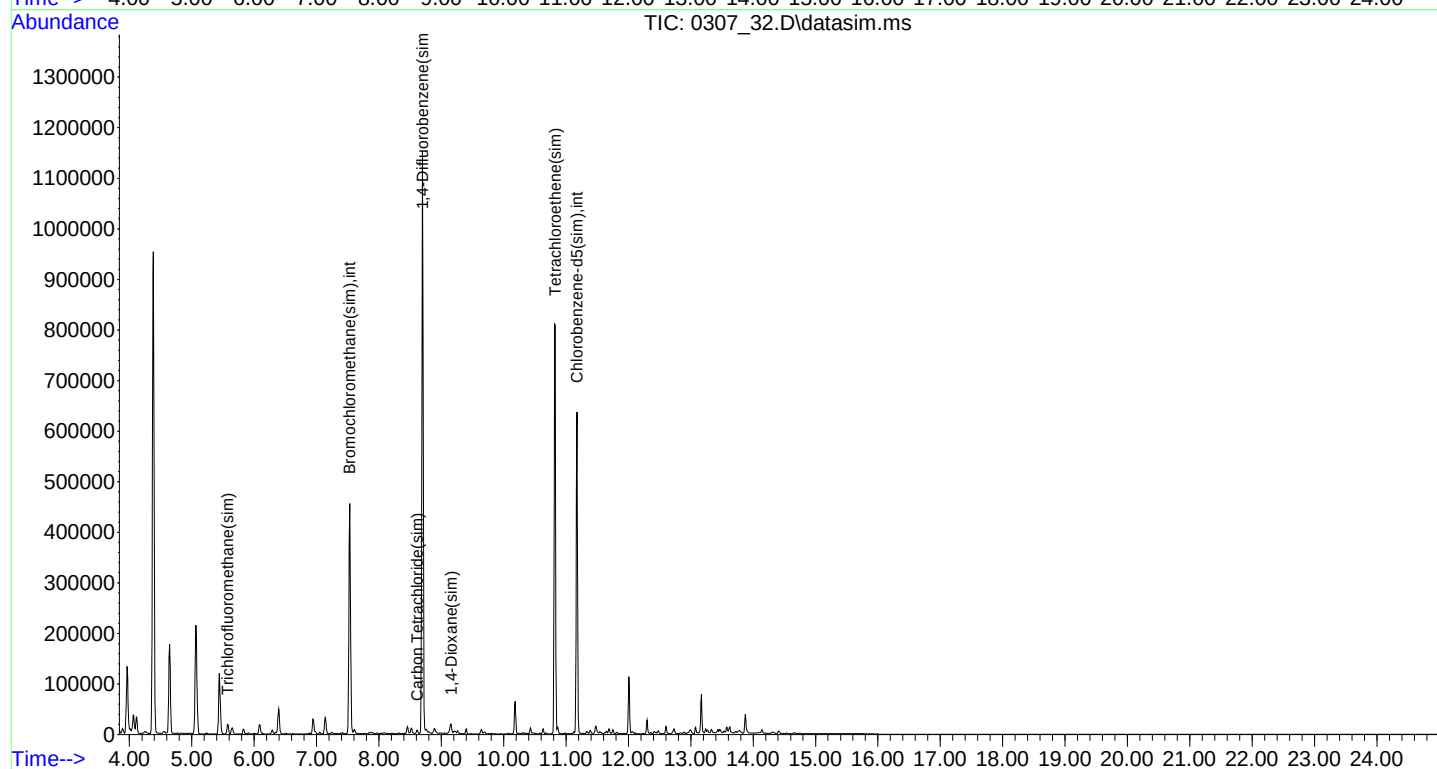
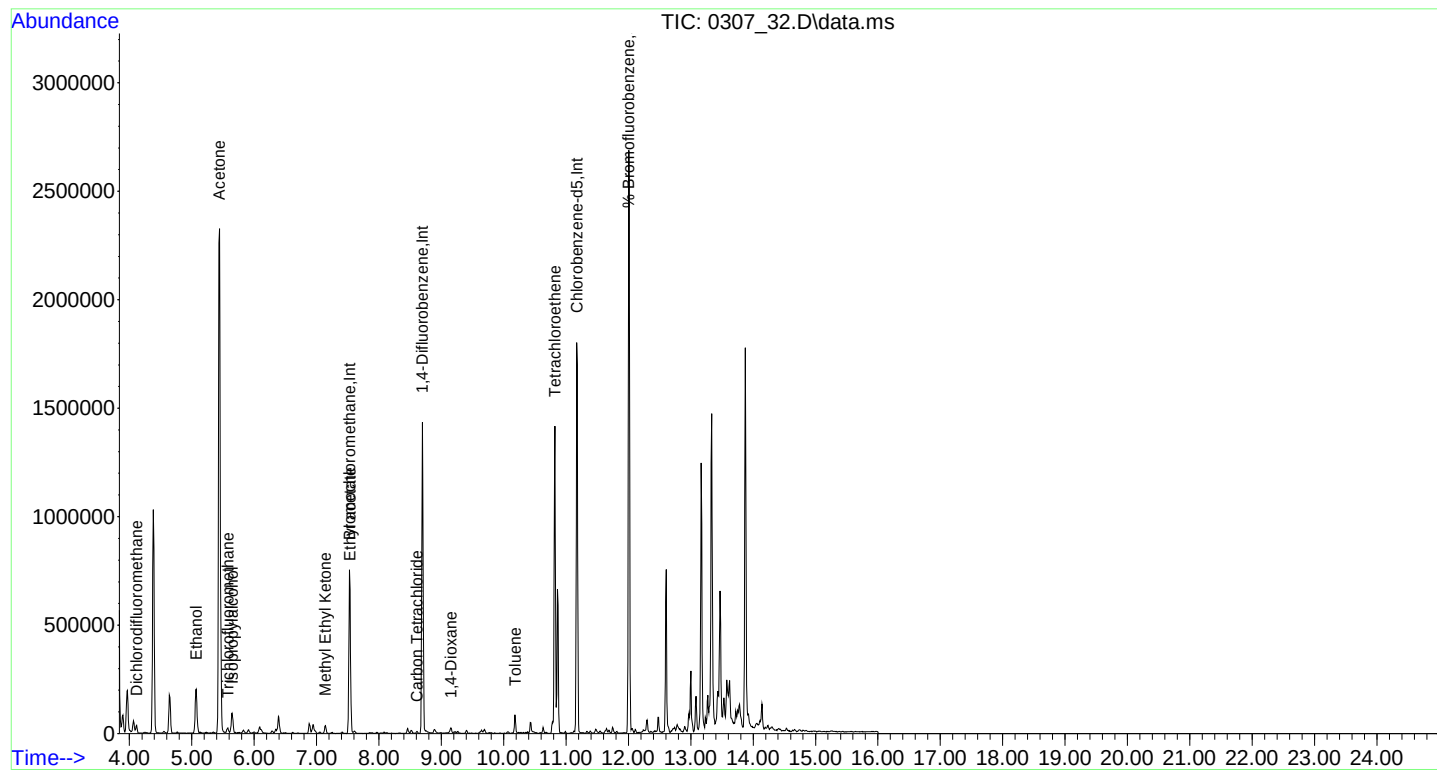
Quant Time: Mar 08 11:46:20 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

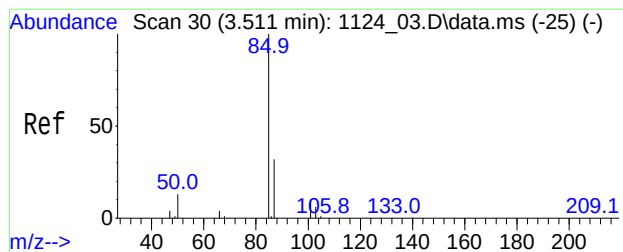
Compound	R.T	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	307927	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1137667	10.000	ng	0.00
54) Chlorobenzene-d5	11.170	82	475305	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	299868	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1137053	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.170	82	475481	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.005	95	713674	10.151	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	=	101.50%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.114	85	35328	0.486	ppbv	99
11) Ethanol	5.071	45	236370	43.435	ppbv	98
12) Acetone	5.443	43	2755912	98.723	ppbv	93
13) Trichlorofluoromethane	5.578	101	18654	0.242	ppbv	97
14) Isopropylalcohol	5.645	45	107783	3.295	ppbv	94
26) Methyl Ethyl Ketone	7.141	43	37659	0.989	ppbv#	97
30) Ethyl acetate	7.537	61	8641	0.809	ppbv	91
35) Carbon Tetrachloride	8.609	117	5551	0.078	ppbv	87
42) 1,4-Dioxane	9.154	88	13256	0.685	ppbv#	70
49) Toluene	10.181	91	54116	0.458	ppbv	98
53) Tetrachloroethene	10.821	166	412941	5.367	ppbv	98
85) Trichlorofluoromethane...	5.575	101	19445	0.231	ppbv#	99
89) Carbon Tetrachloride(sim)	8.612	117	5014	0.067	ppbv	99
100) 1,4-Dioxane(sim)	9.154	88	13256	0.683	ppbv#	70
105) Tetrachloroethene(sim)	10.824	166	388364	5.036	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_32.D
Acq On : 8 Mar 2023 8:44 am
Operator :
Client ID : VP-2
Lab ID : CN54079
ALS Vial : 23 Sample Multiplier: 1

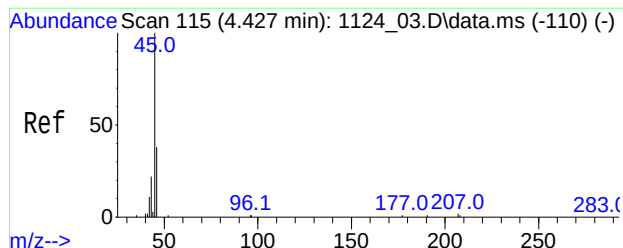
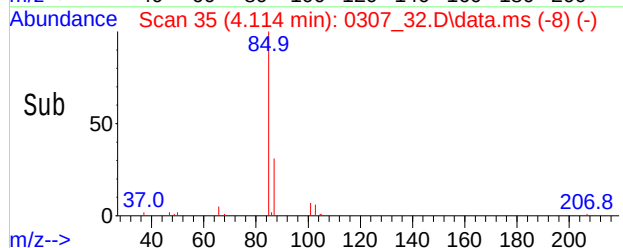
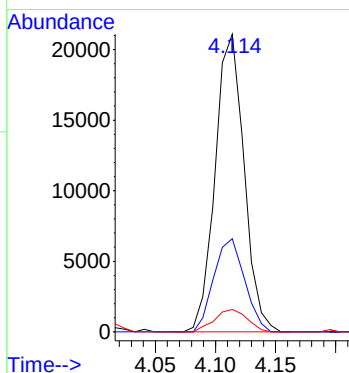
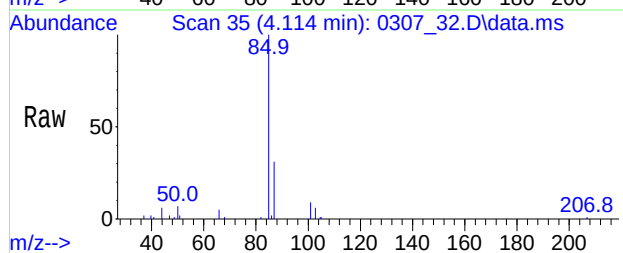
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Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





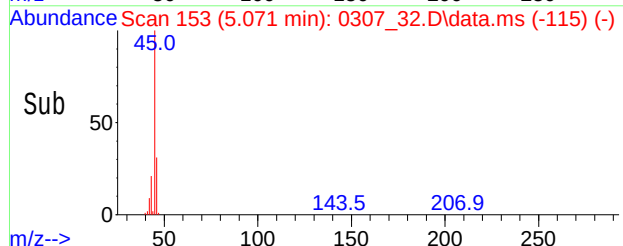
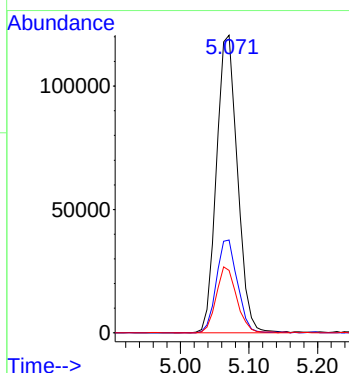
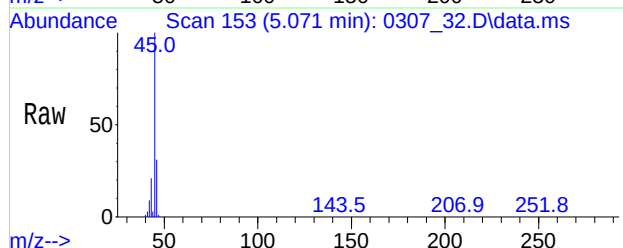
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.486 ppbv
 RT: 4.114 min Scan# 35
 Delta R.T. 0.016 min
 Lab File: 0307_32.D
 Acq: 8 Mar 2023 8:44 am

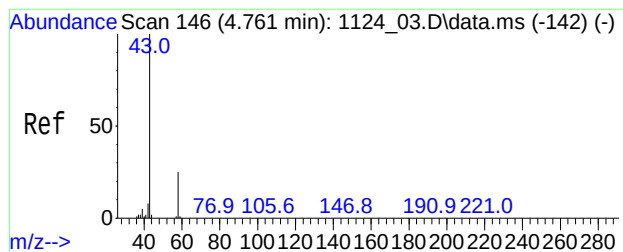
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.4	26.2	39.4
50	8.5	6.2	9.2



#11
 Ethanol
 Conc: 8\$ 43.435 ppbv
 RT: 5.071 min Scan# 153
 Delta R.T. 0.008 min
 Lab File: 0307_32.D
 Acq: 8 Mar 2023 8:44 am

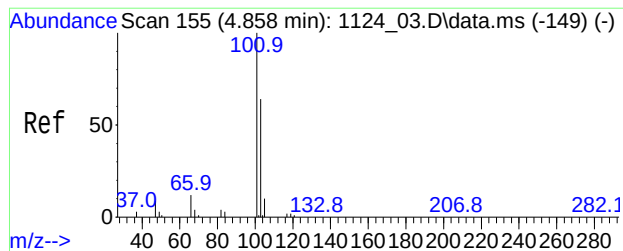
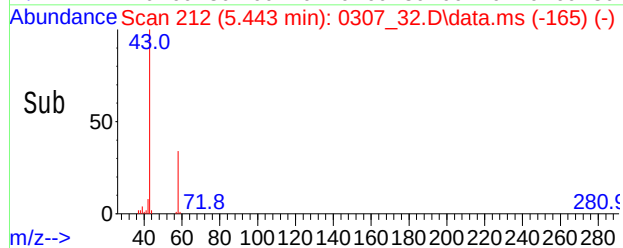
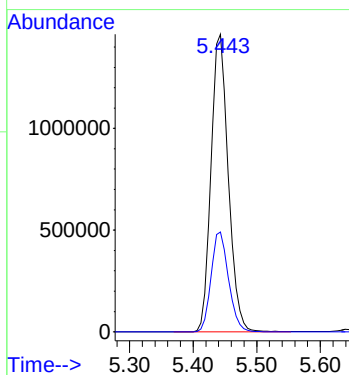
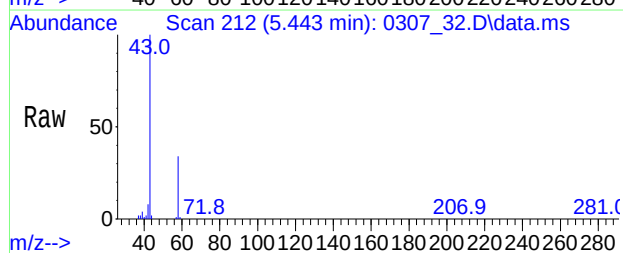
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.4	27.0	40.4
43	22.0	17.0	25.4





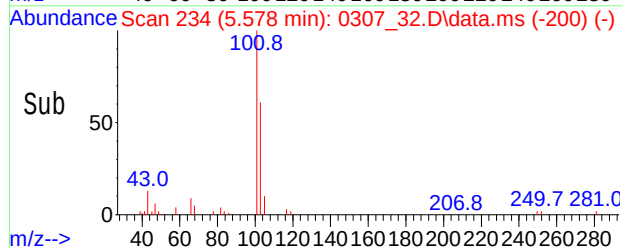
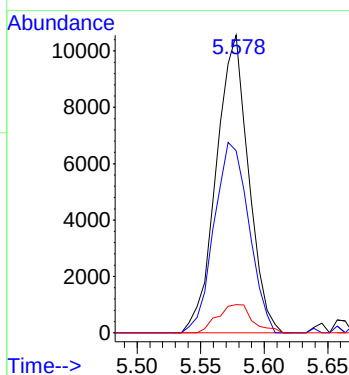
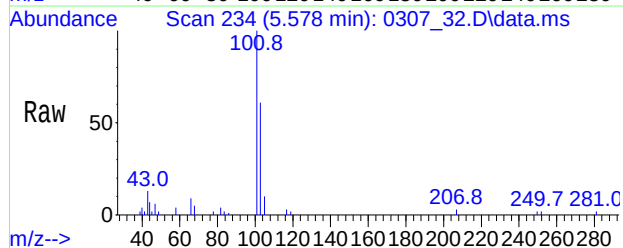
#12
Acetone
Conc: 8\$ 98.723 ppbv
RT: 5.443 min Scan# 212
Delta R.T. -0.012 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

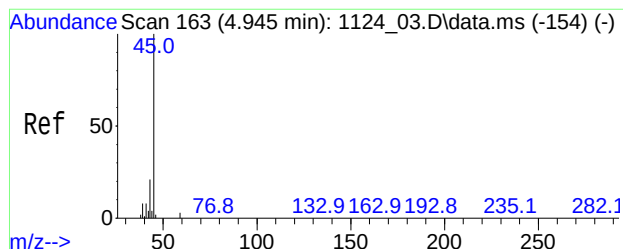
Tgt Ion: 43 Resp: 2755912
Ion Ratio Lower Upper
43 100
58 34.0 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.242 ppbv
RT: 5.578 min Scan# 234
Delta R.T. 0.006 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

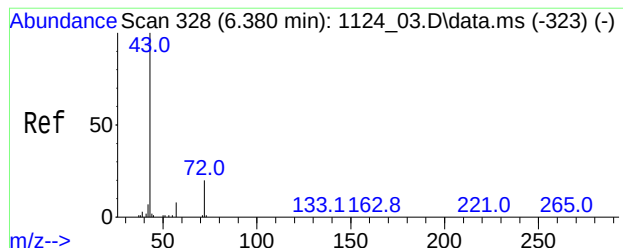
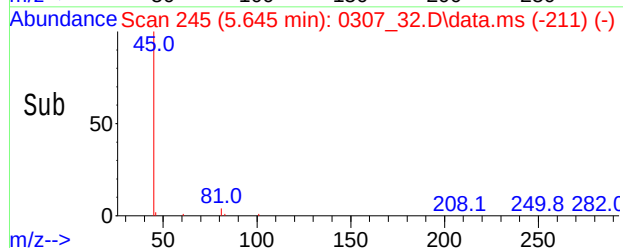
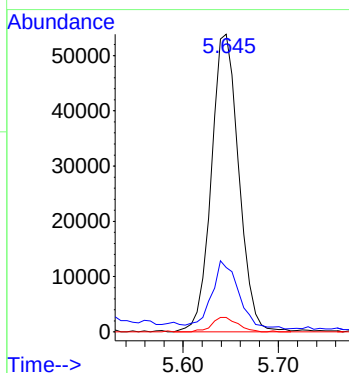
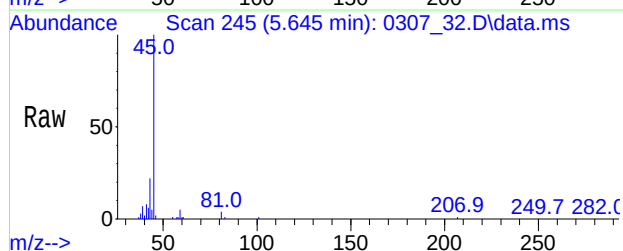
Tgt Ion: 101 Resp: 18654
Ion Ratio Lower Upper
101 100
103 68.8 52.9 79.3
66 10.2 7.3 10.9





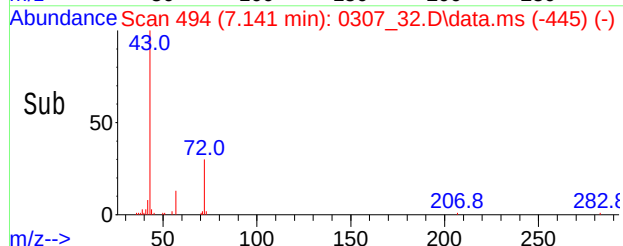
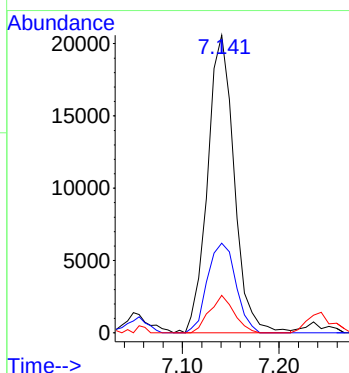
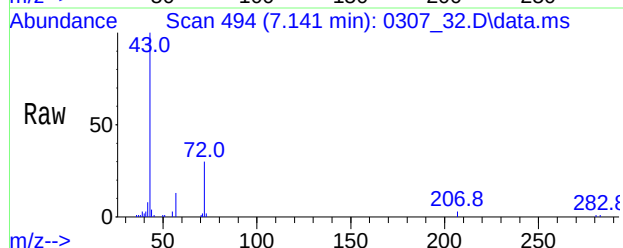
#14
Isopropylalcohol
Conc: 8\$ 3.295 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.006 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

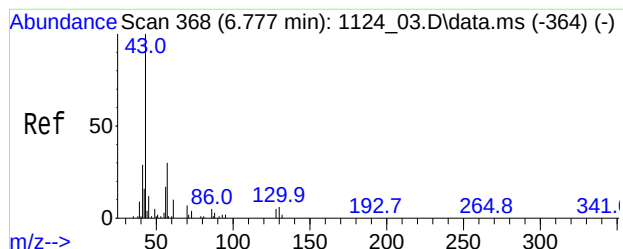
Tgt Ion	Ratio	Lower	Upper
45	100		
43	22.5	15.4	23.0
59	4.6	3.9	5.9



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.989 ppbv
RT: 7.141 min Scan# 494
Delta R.T. 0.000 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

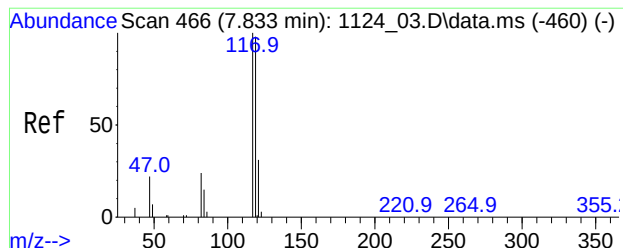
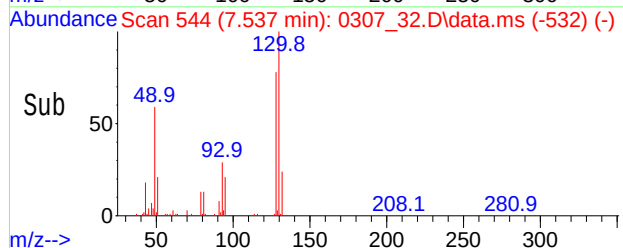
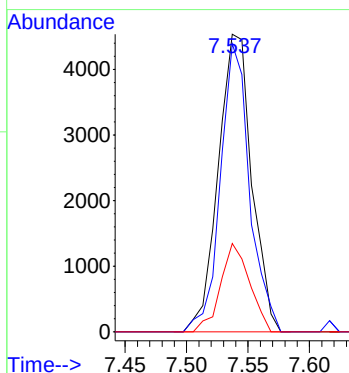
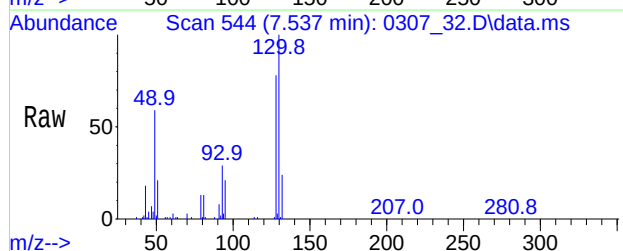
Tgt Ion	Ratio	Lower	Upper
43	100		
72	32.4	27.2	40.8
57	11.9	7.8	11.8#





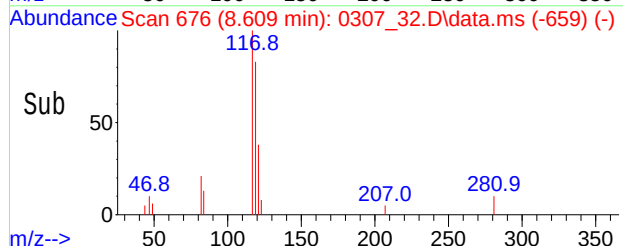
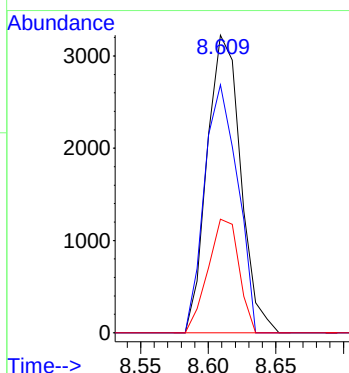
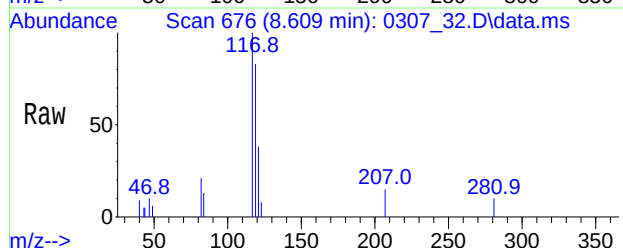
#30
Ethyl acetate
Conc: 8\$ 0.809 ppbv
RT: 7.537 min Scan# 544
Delta R.T. -0.008 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

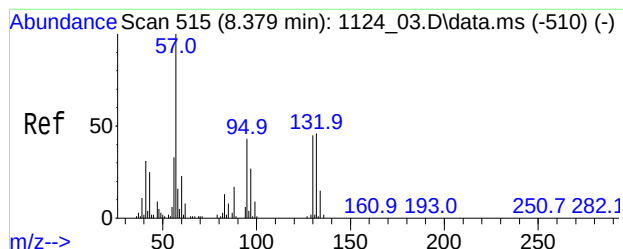
Tgt Ion	Ratio	Resp	Lower	Upper
61	100	8641		
70	84.2		61.0	91.6
88	25.7		17.8	26.6



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

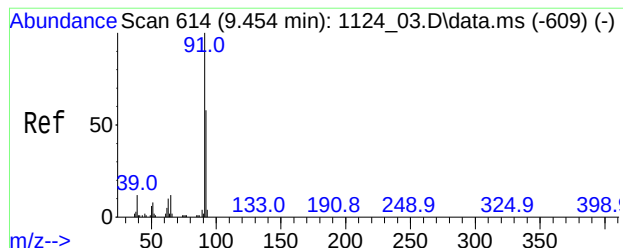
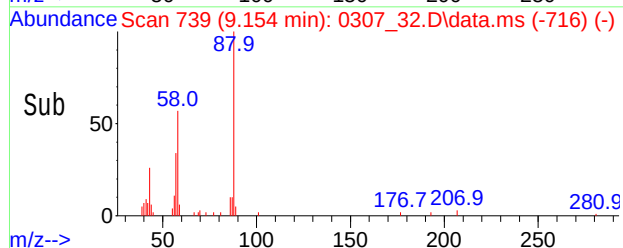
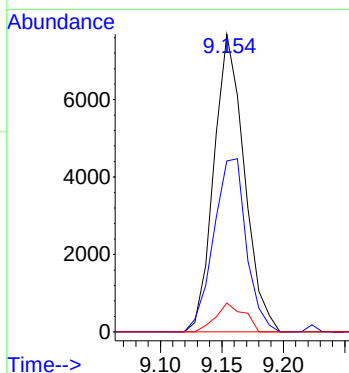
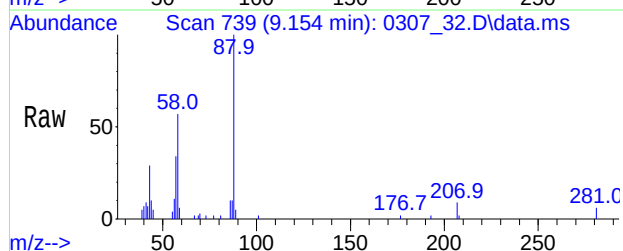
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5551		
119	82.1		77.0	117.0
121	35.2		11.5	51.5





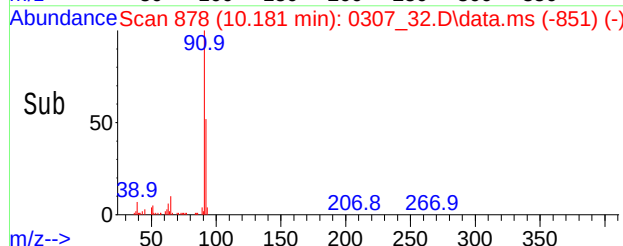
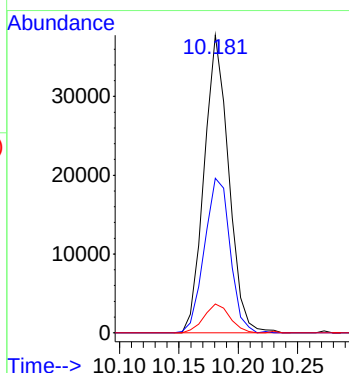
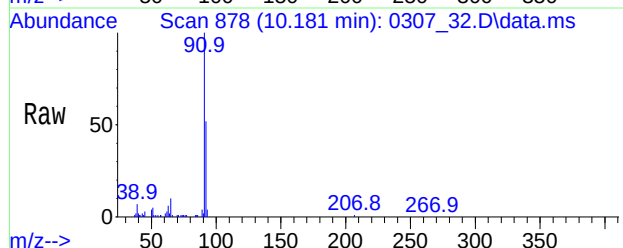
#42
1,4-Dioxane
Conc: 8\$ 0.685 ppbv
RT: 9.154 min Scan# 739
Delta R.T. 0.000 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

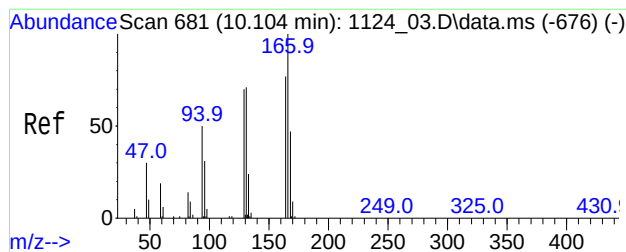
Tgt Ion	Ratio	Lower	Upper
88	100		
58	62.6	61.0	91.4
87	9.0	34.9	52.3#



#49
Toluene
Conc: 8\$ 0.458 ppbv
RT: 10.181 min Scan# 878
Delta R.T. -0.007 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

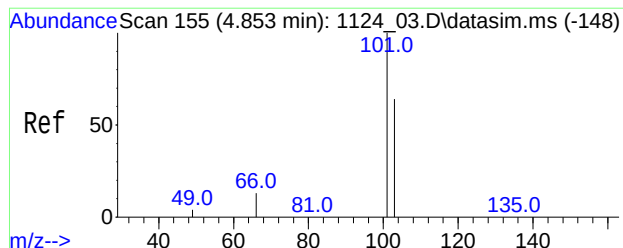
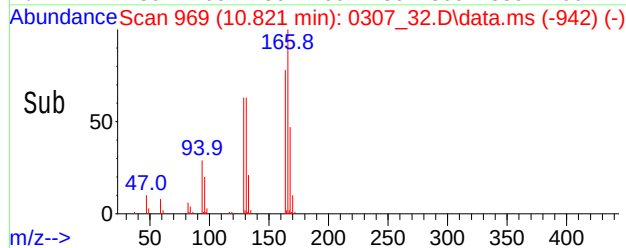
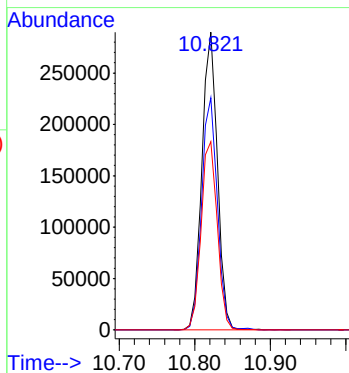
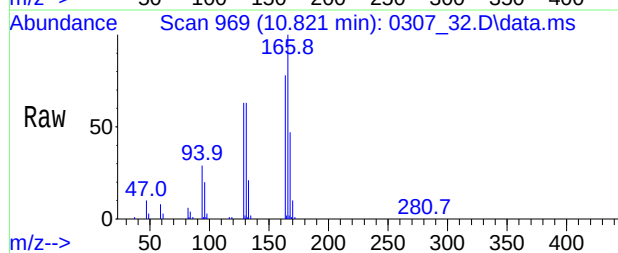
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.3	44.6	66.8
65	10.3	7.2	10.8





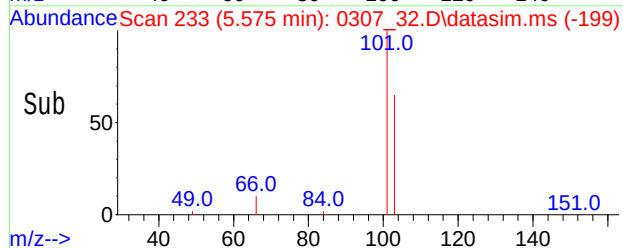
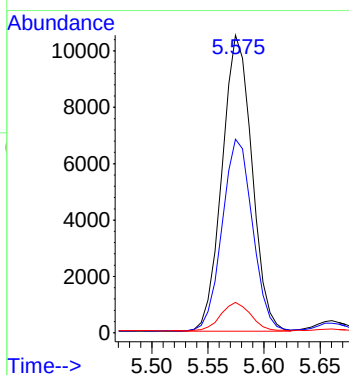
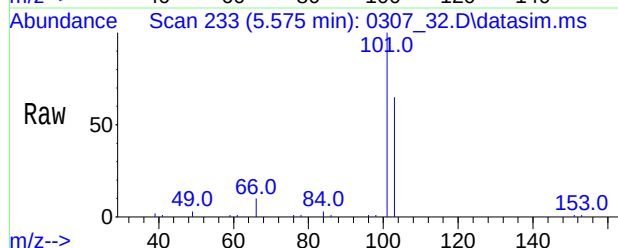
#53
Tetrachloroethene
Conc: 8\$ 5.367 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

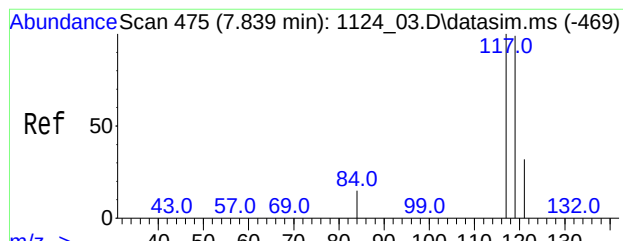
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	412941		
164	79.2	62.3	93.5	
129	65.8	54.7	82.1	



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.231 ppbv
RT: 5.575 min Scan# 233
Delta R.T. 0.006 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

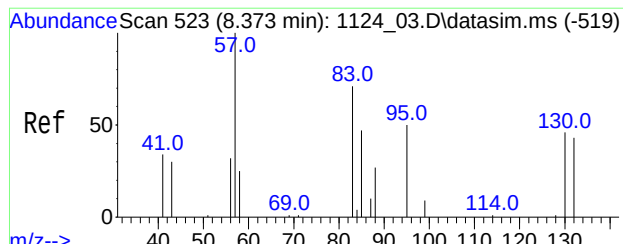
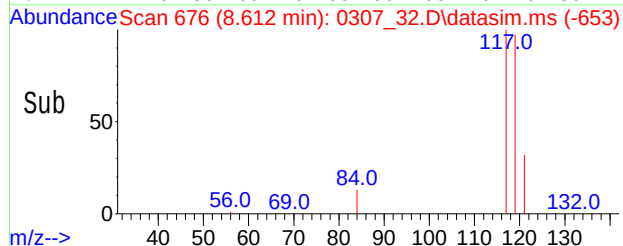
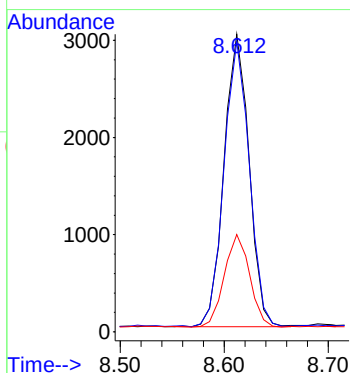
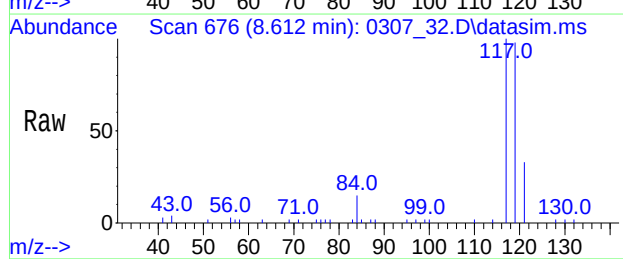
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19445		
103	65.7	52.2	78.4	
66	9.7	9.3	9.3#	





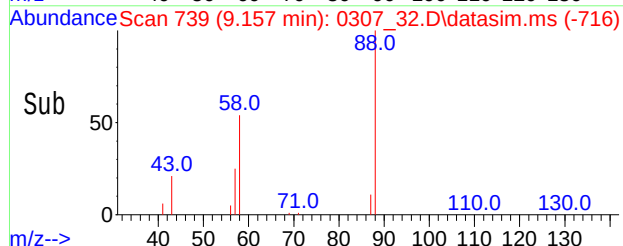
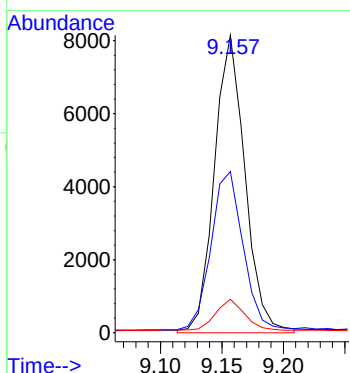
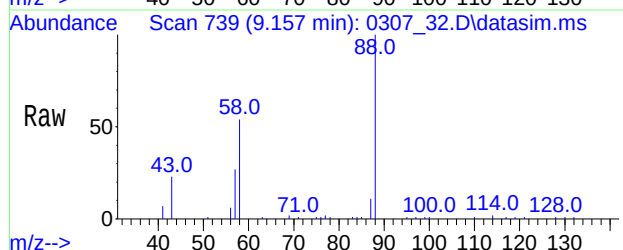
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.067 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

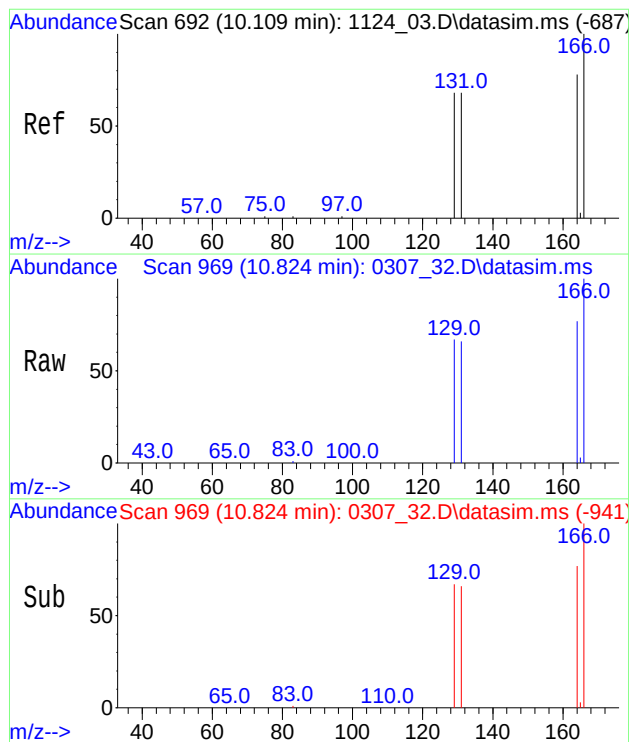
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.9	77.7	116.5
121	31.8	25.1	37.7



#100
1,4-Dioxane(sim)
Conc: 8\$ 0.683 ppbv
RT: 9.154 min Scan# 739
Delta R.T. 0.000 min
Lab File: 0307_32.D
Acq: 8 Mar 2023 8:44 am

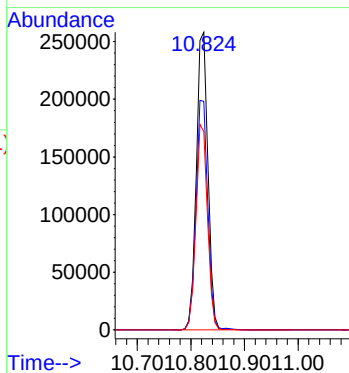
Tgt Ion	Ratio	Lower	Upper
88	100		
58	62.6	61.0	91.4
87	9.0	34.9	52.3#





#105
 Tetrachloroethene(sim)
 Conc: 8\$ 5.036 ppbv
 RT: 10.824 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: 0307_32.D
 Acq: 8 Mar 2023 8:44 am

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	388364		
164	78.4		57.9	97.9
129	68.8		50.0	90.0



Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_24.D
 Acq On : 8 Mar 2023 1:46 am
 Operator :
 Client ID : VP-2 5X
 Lab ID : CN54079 5X
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Mar 08 09:26:33 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

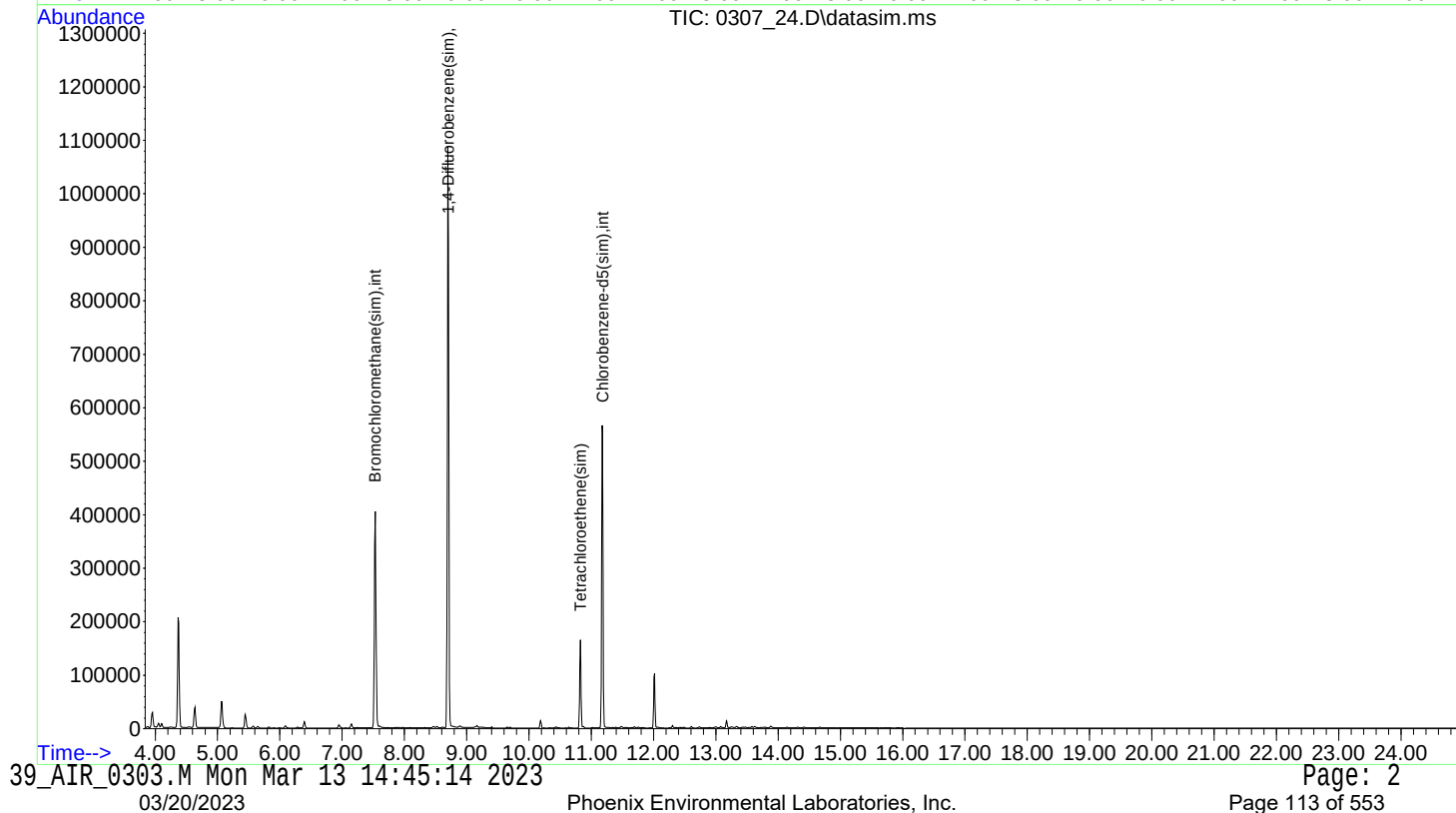
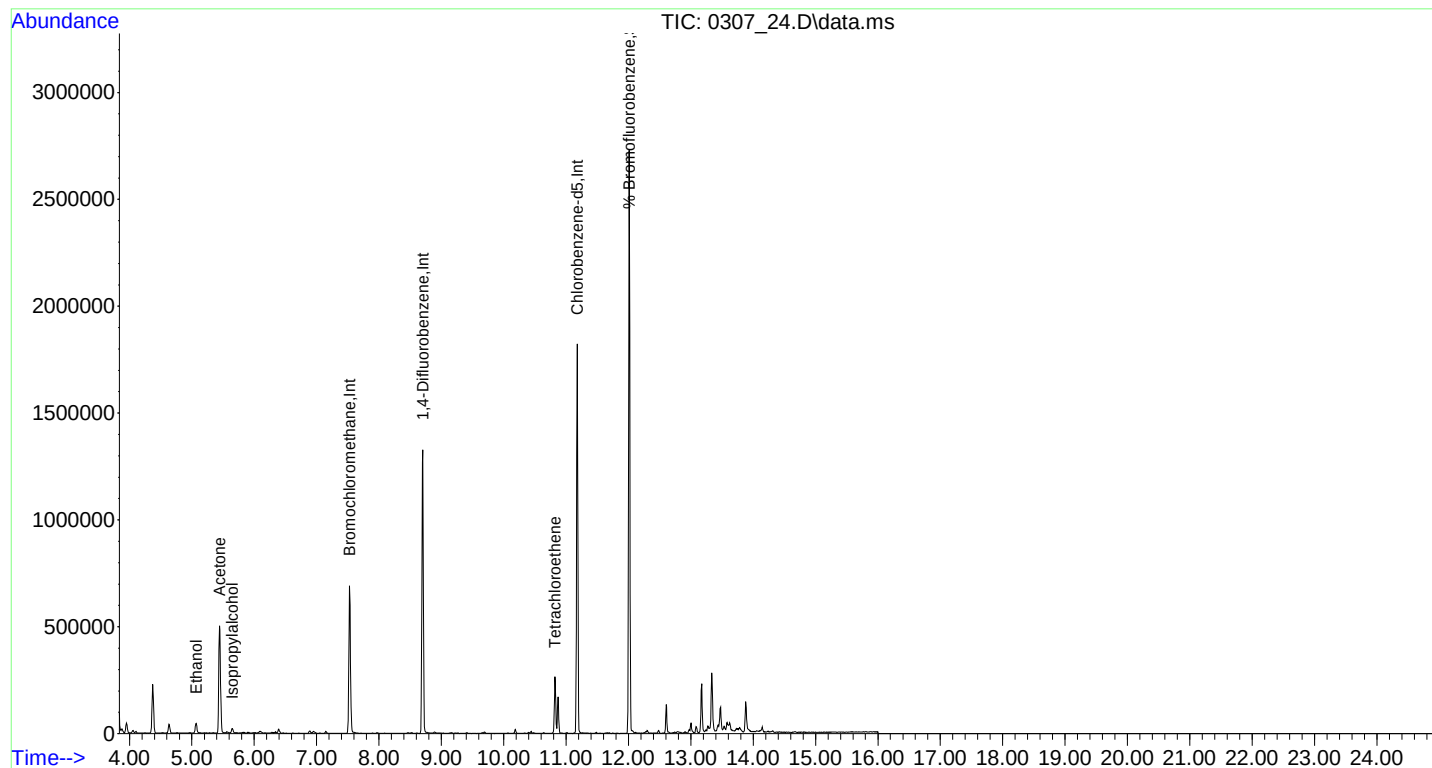
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

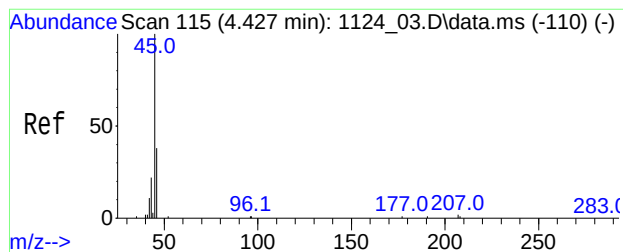
Internal Standards						
1) Bromochloromethane	7.529	130	306334	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1091820	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	451282	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	291616	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1091820	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	451282	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	685294	10.266	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.70%	
Target Compounds						
						Qvalue
11) Ethanol	5.071	45	52790	9.751	ppbv	96
12) Acetone	5.443	43	583220	21.001	ppbv	93
14) Isopropylalcohol	5.645	45	22079	0.678	ppbv#	82
53) Tetrachloroethene	10.821	166	78264	1.060	ppbv	99
105] Tetrachloroethene(sim)	10.824	166	74564	1.007	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_24.D
Acq On : 8 Mar 2023 1:46 am
Operator :
Client ID : VP-2 5X
Lab ID : CN54079 5X
ALS Vial : 15 Sample Multiplier: 1

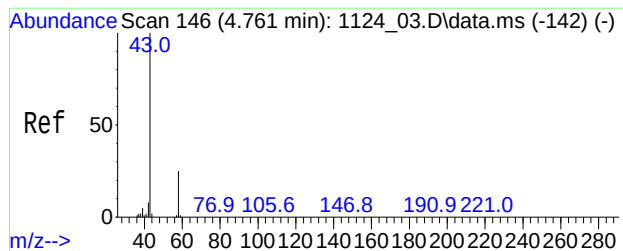
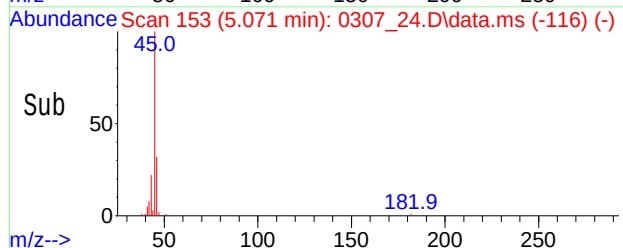
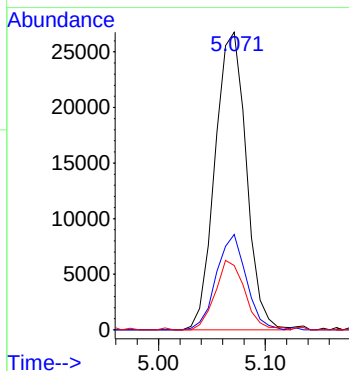
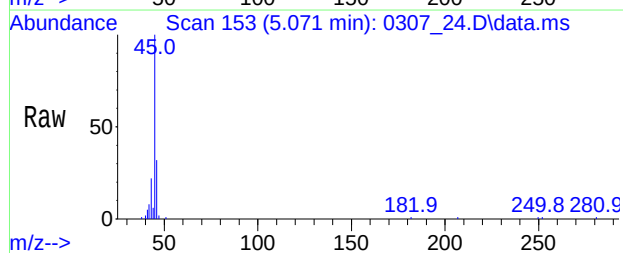
Quant Time: Mar 08 09:26:33 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





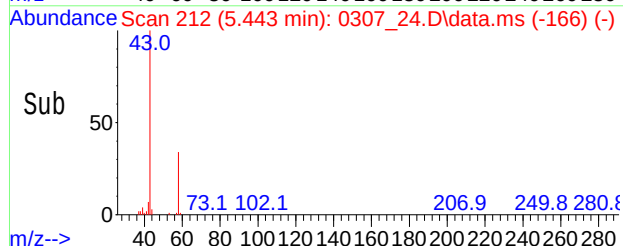
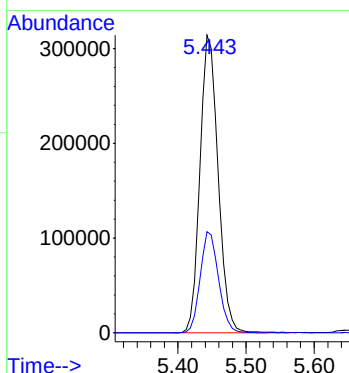
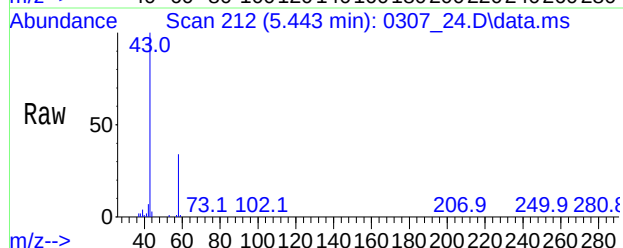
#11
Ethanol
Conc: 8\$ 9.751 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.000 min
Lab File: 0307_24.D
Acq: 8 Mar 2023 1:46 am

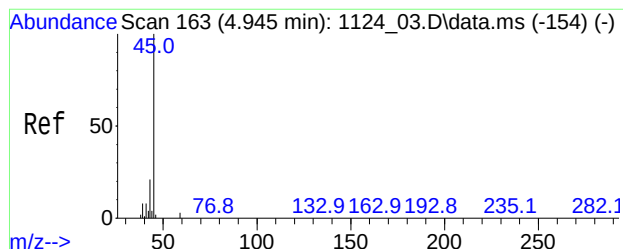
Tgt Ion: 45 Resp: 52790
Ion Ratio Lower Upper
45 100
46 31.1 27.0 40.4
43 22.2 17.0 25.4



#12
Acetone
Conc: 8\$ 21.001 ppbv
RT: 5.443 min Scan# 212
Delta R.T. -0.018 min
Lab File: 0307_24.D
Acq: 8 Mar 2023 1:46 am

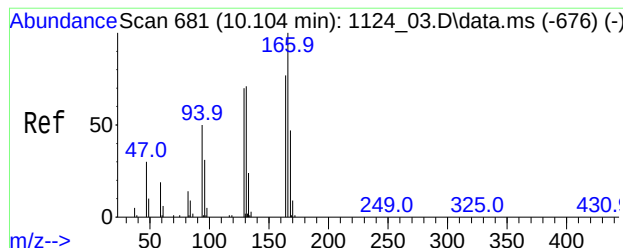
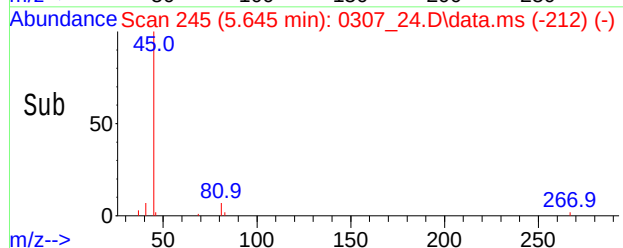
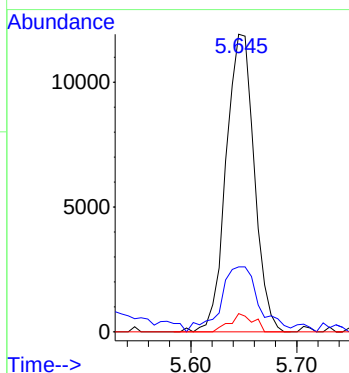
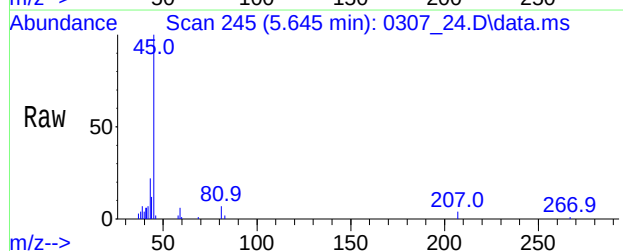
Tgt Ion: 43 Resp: 583220
Ion Ratio Lower Upper
43 100
58 34.2 30.8 46.2





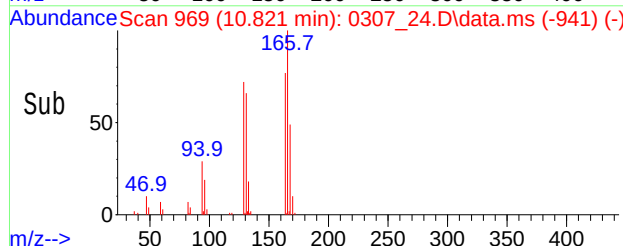
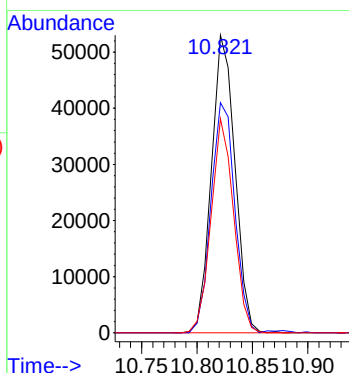
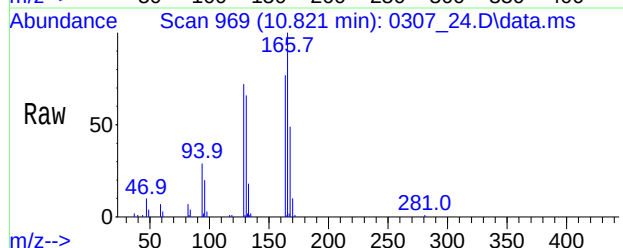
#14
Isopropylalcohol
Conc: 8\$ 0.678 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.000 min
Lab File: 0307_24.D
Acq: 8 Mar 2023 1:46 am

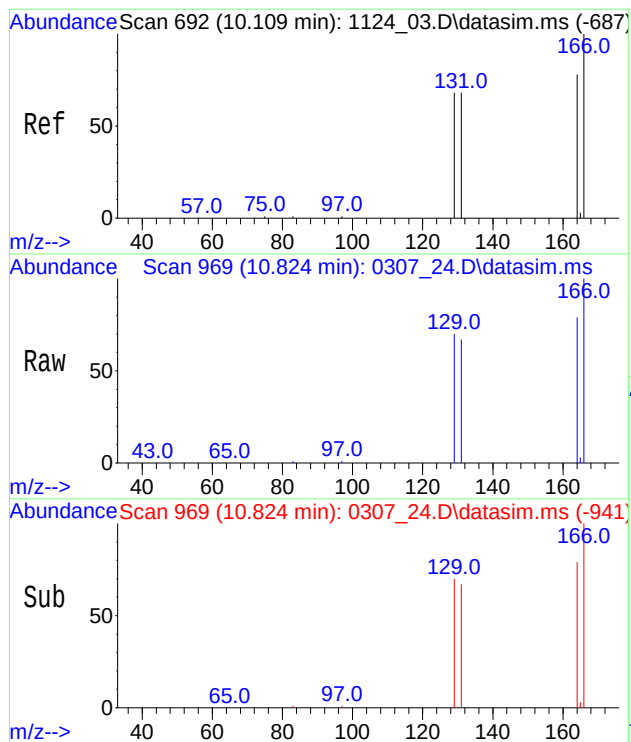
Tgt Ion: 45 Resp: 22079
Ion Ratio Lower Upper
45 100
43 29.4 15.4 23.0#
59 5.2 3.9 5.9



#53
Tetrachloroethene
Conc: 8\$ 1.060 ppbv
RT: 10.821 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_24.D
Acq: 8 Mar 2023 1:46 am

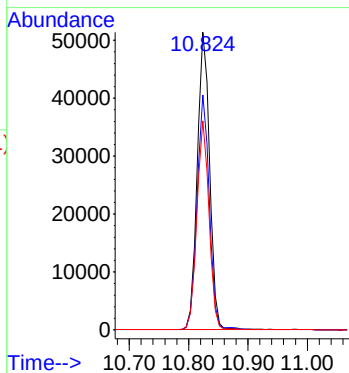
Tgt Ion: 166 Resp: 78264
Ion Ratio Lower Upper
166 100
164 78.8 62.3 93.5
129 68.9 54.7 82.1





#105
Tetrachloroethene(sim)
Conc: 8\$ 1.007 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_24.D
Acq: 8 Mar 2023 1:46 am

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.3	57.9	97.9
129	68.8	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	VP-3
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54080</u>	
Canister:	<u>19786</u>	Lab File ID:	<u>0307_33.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>	
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	0.495		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	3.06	S	0.531	0.531	r
67-64-1	Acetone	2.63	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.253		0.178	0.178	r
67-63-0	Isopropylalcohol	0.843	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
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	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	8.27		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-3

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54080

Canister: 19786 Lab File ID: 0307_33.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

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
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.071		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)	0.052		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	1,1,1,2-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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_33.D
 Acq On : 8 Mar 2023 9:23 am
 Operator :
 Client ID : VP-3
 Lab ID : CN54080
 ALS Vial : 24 Sample Multiplier: 1

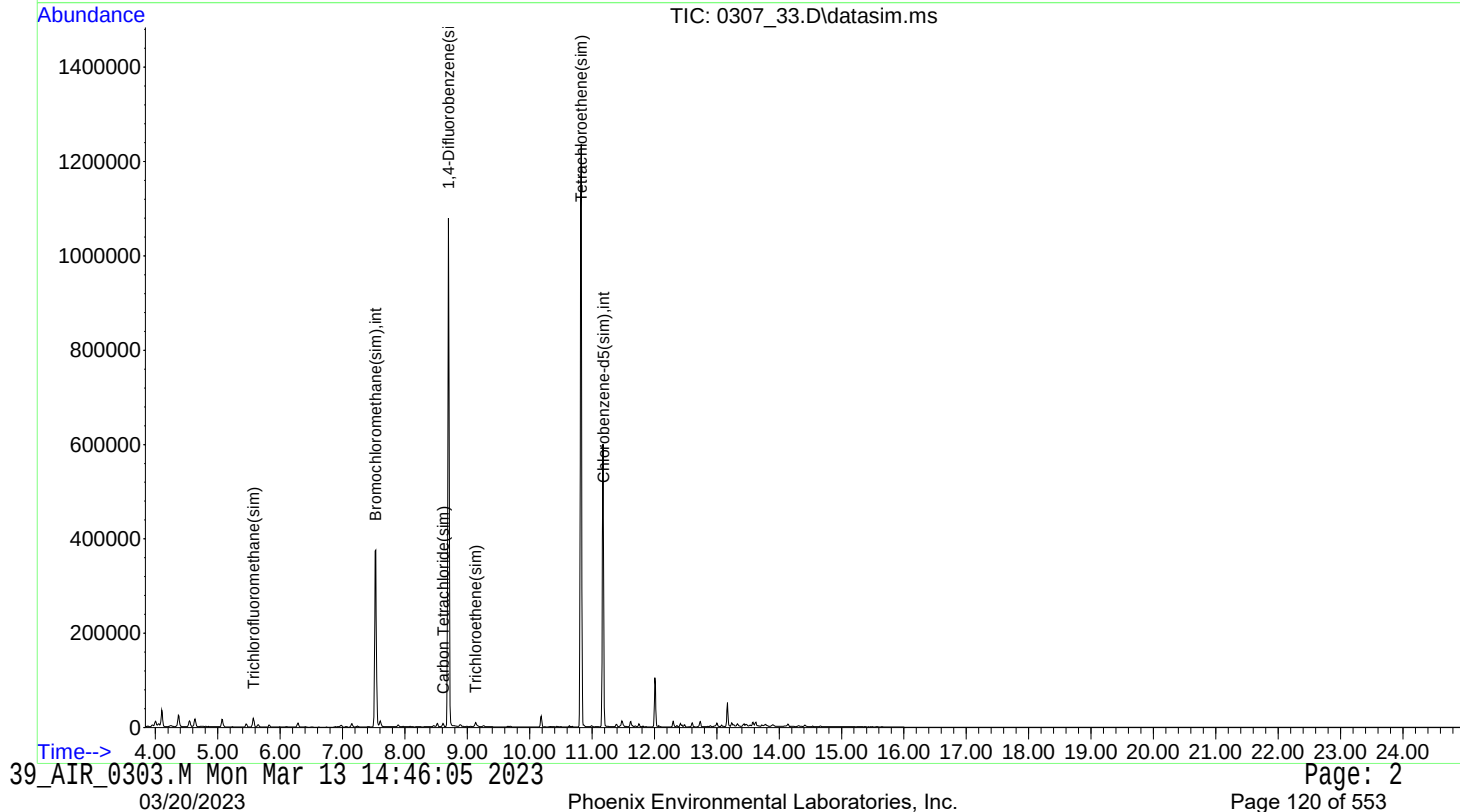
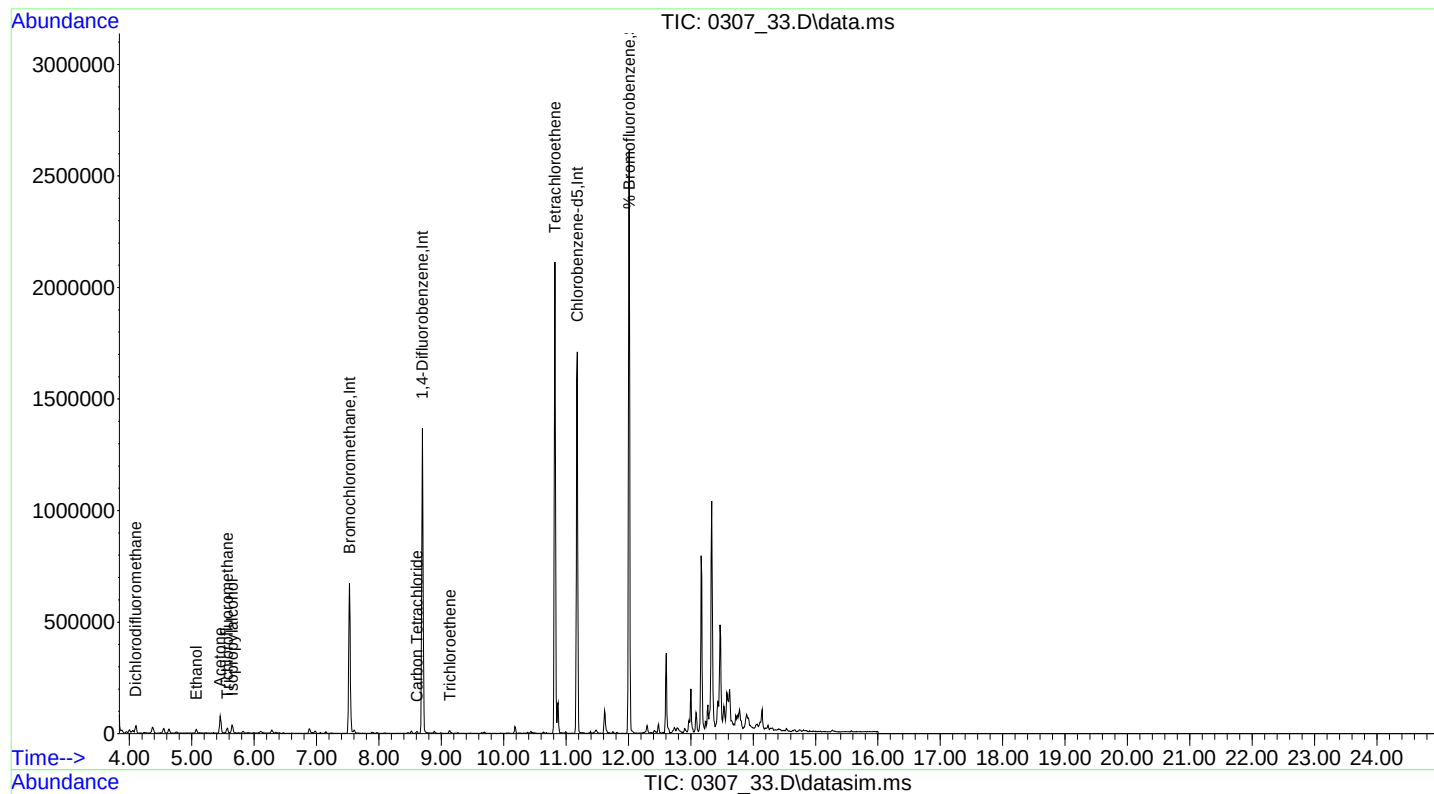
Quant Time: Mar 08 11:46:56 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

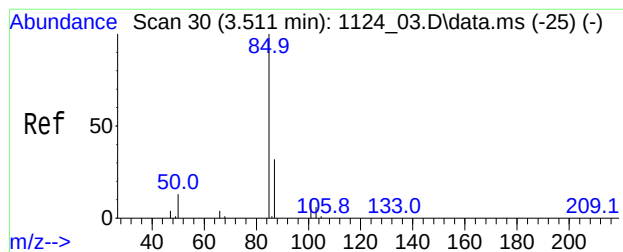
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	293345	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1081473	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	444872	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	284514	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1080874	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	444639	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	679958	10.333	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	=	103.30%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.098	85	34305	0.495	ppbv#	99
11) Ethanol	5.071	45	15845	3.056	ppbv	96
12) Acetone	5.455	43	69950	2.630	ppbv	91
13) Trichlorofluoromethane	5.565	101	18574	0.253	ppbv	99
14) Isopropylalcohol	5.645	45	26281	0.843	ppbv#	90
35) Carbon Tetrachloride	8.609	117	4906	0.072	ppbv	93
40) Trichloroethene	9.137	130	2511	0.052	ppbv	92
53) Tetrachloroethene	10.821	166	604494	8.265	ppbv	98
85) Trichlorofluoromethane...	5.568	101	18794	0.235	ppbv#	99
89) Carbon Tetrachloride(sim)	8.612	117	5082	0.071	ppbv	99
99) Trichloroethene(sim)	9.131	130	2562	0.052	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	566122	7.722	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_33.D
Acq On : 8 Mar 2023 9:23 am
Operator :
Client ID : VP-3
Lab ID : CN54080
ALS Vial : 24 Sample Multiplier: 1

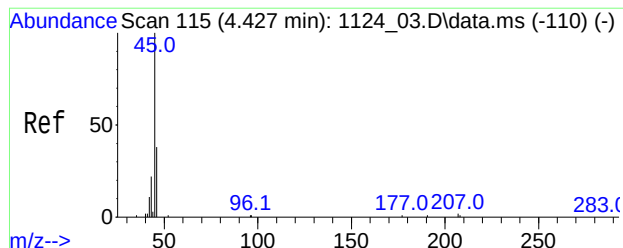
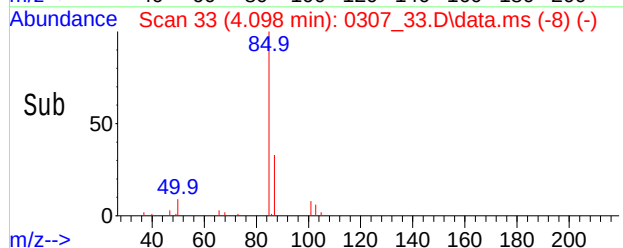
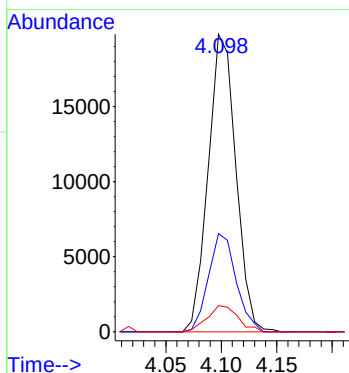
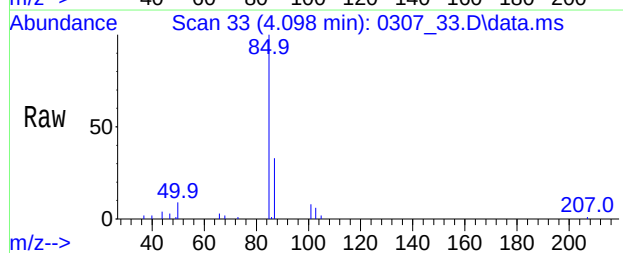
Quant Time: Mar 08 11:46:56 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





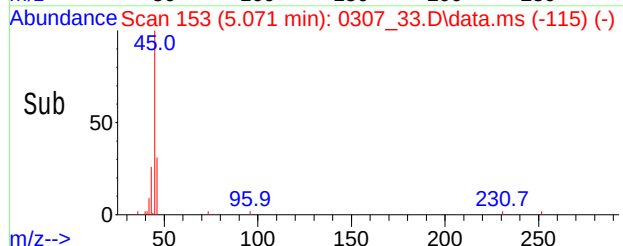
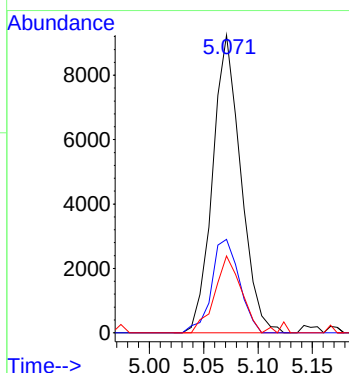
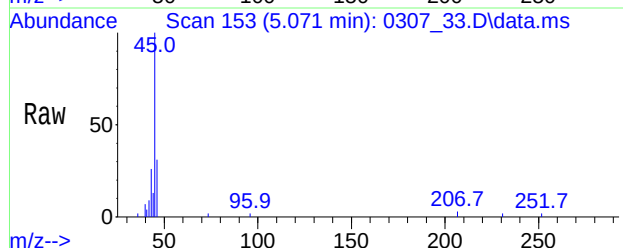
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.495 ppbv
 RT: 4.098 min Scan# 33
 Delta R.T. 0.000 min
 Lab File: 0307_33.D
 Acq: 8 Mar 2023 9:23 am

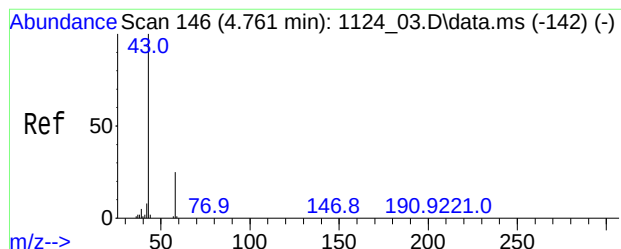
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.2	39.4
50	9.8	6.2	9.2#



#11
 Ethanol
 Conc: 8\$ 3.056 ppbv
 RT: 5.071 min Scan# 153
 Delta R.T. 0.008 min
 Lab File: 0307_33.D
 Acq: 8 Mar 2023 9:23 am

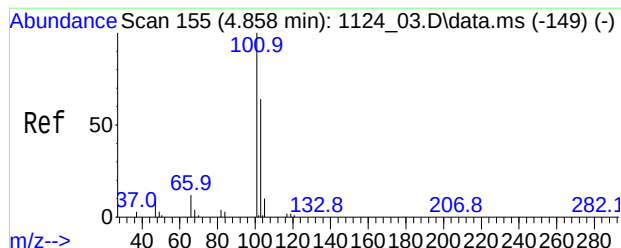
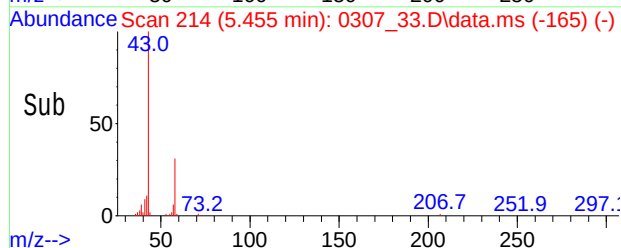
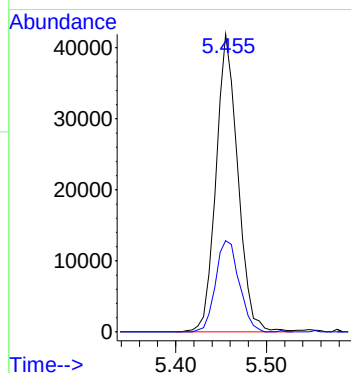
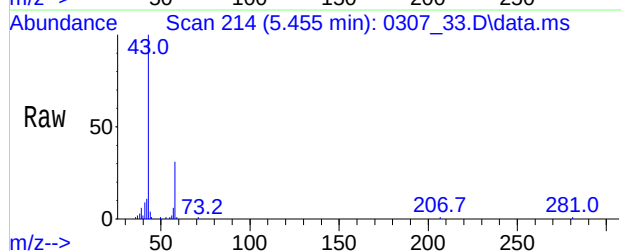
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.7	27.0	40.4
43	25.4	17.0	25.4





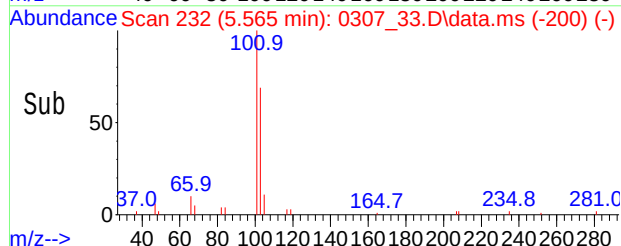
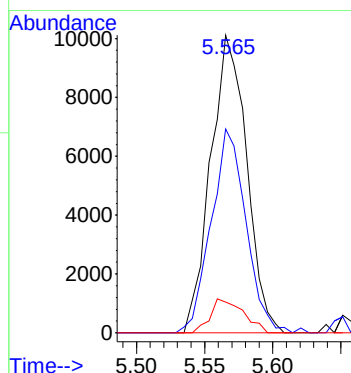
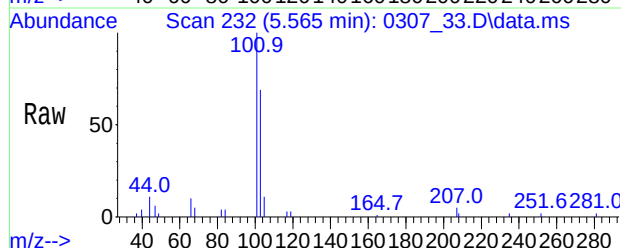
#12
Acetone
Conc: 8\$ 2.630 ppbv
RT: 5.455 min Scan# 214
Delta R.T. 0.000 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

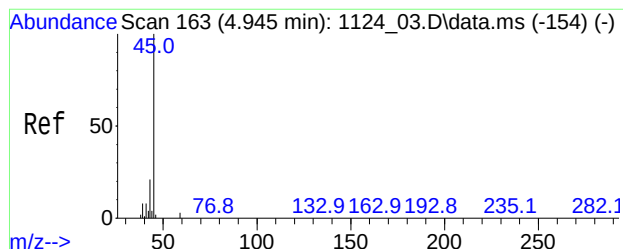
Tgt Ion: 43 Resp: 69950
Ion Ratio Lower Upper
43 100
58 33.1 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.253 ppbv
RT: 5.565 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

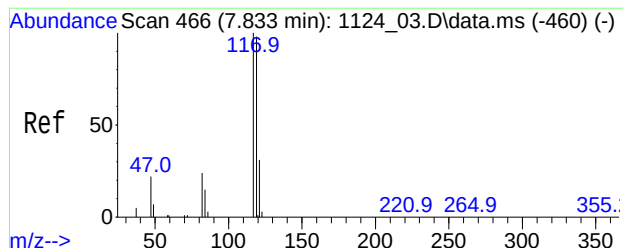
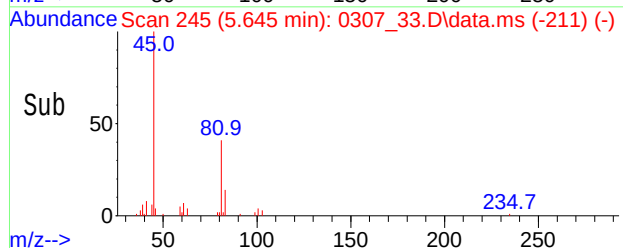
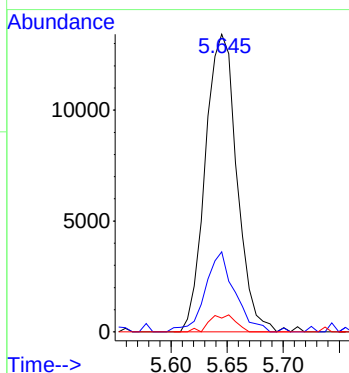
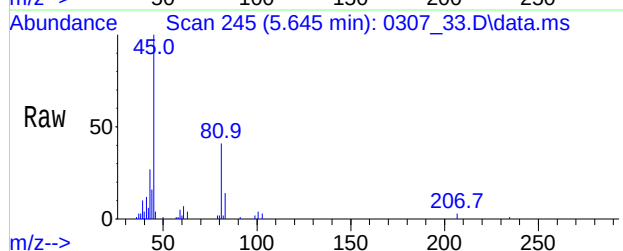
Tgt Ion: 101 Resp: 18574
Ion Ratio Lower Upper
101 100
103 66.4 52.9 79.3
66 10.4 7.3 10.9





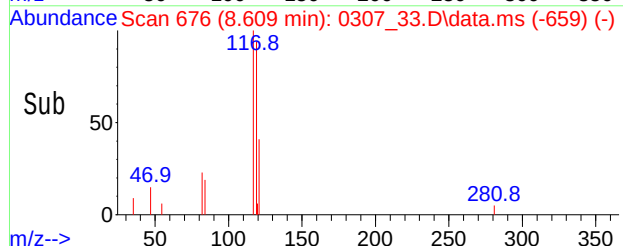
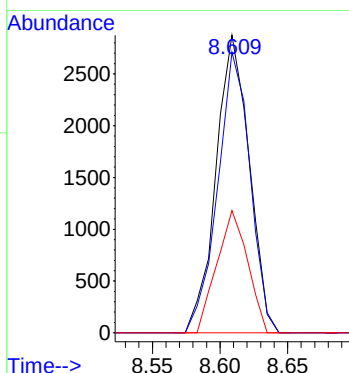
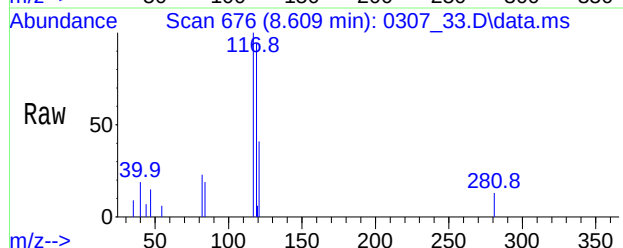
#14
Isopropylalcohol
Conc: 8\$ 0.843 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.006 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

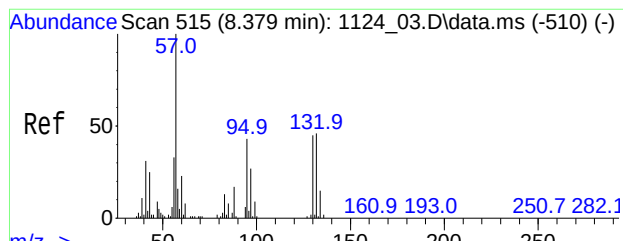
Tgt Ion	Ratio	Lower	Upper
45	100		
43	25.0	15.4	23.0#
59	4.7	3.9	5.9



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

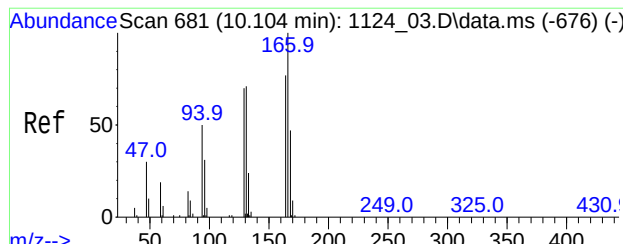
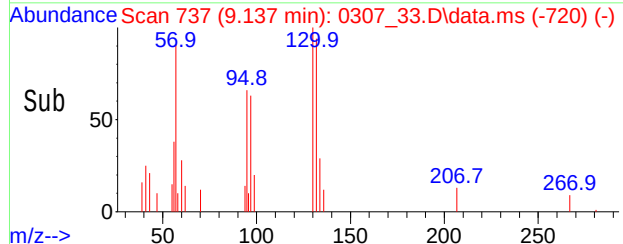
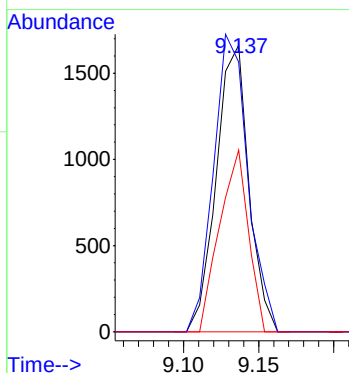
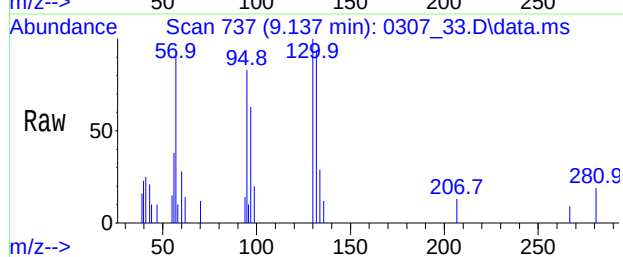
Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.0	77.0	117.0
121	38.0	11.5	51.5





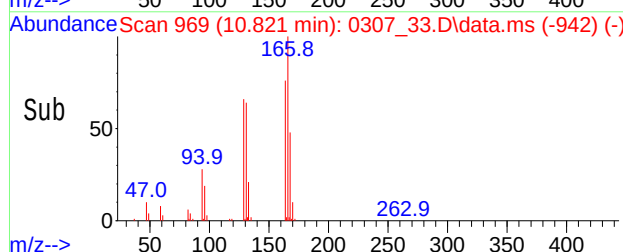
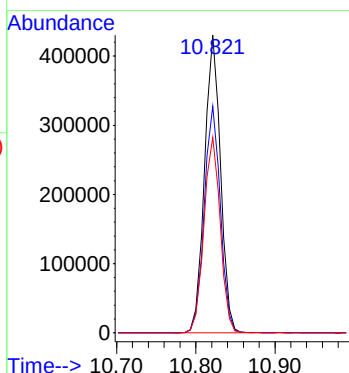
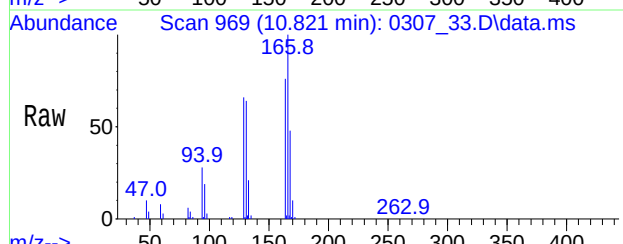
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 9.137 min Scan# 737
Delta R.T. 0.000 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

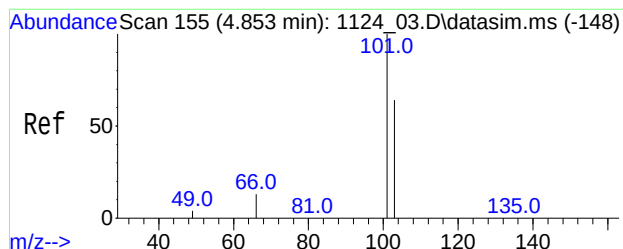
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	2511		
132	109.4	77.4	116.2	
97	56.0	45.3	67.9	



#53
Tetrachloroethene
Conc: 8\$ 8.265 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

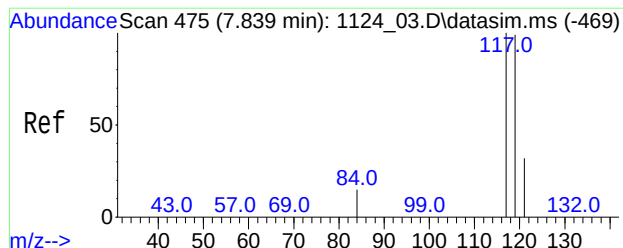
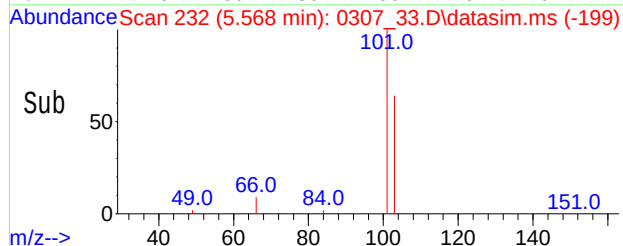
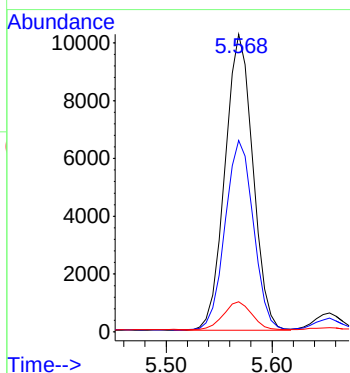
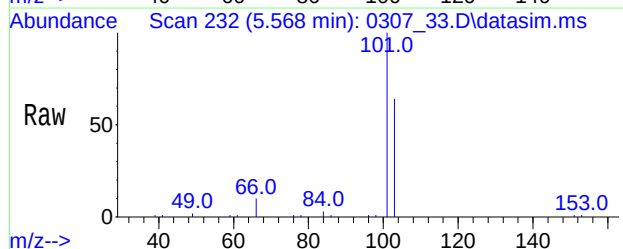
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	604494		
164	76.9	62.3	93.5	
129	66.9	54.7	82.1	





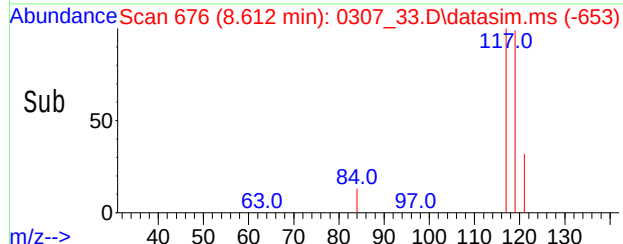
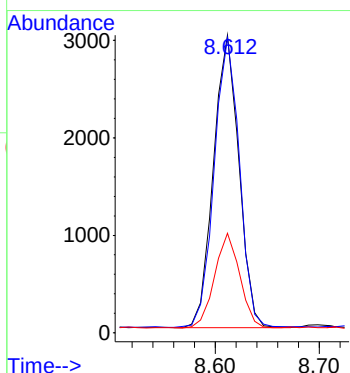
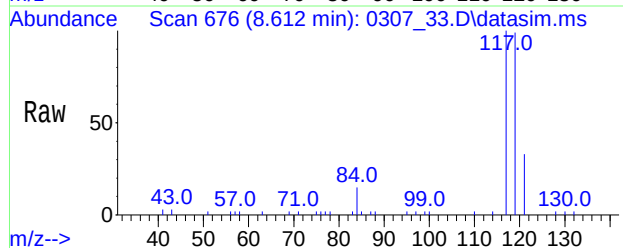
#85
 Trichlorofluoromethane(sim)
 Conc: 8\$ 0.235 ppbv
 RT: 5.568 min Scan# 232
 Delta R.T. 0.000 min
 Lab File: 0307_33.D
 Acq: 8 Mar 2023 9:23 am

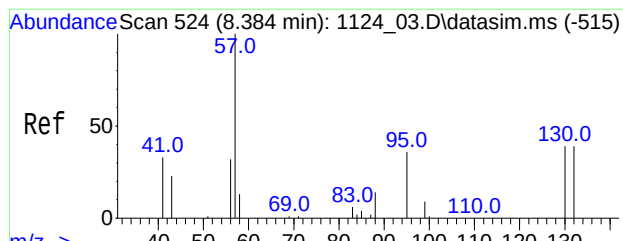
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	18794		
103	64.9	52.2	78.4	
66	9.6	9.3	9.3#	



#89
 Carbon Tetrachloride(sim)
 Conc: 8\$ 0.071 ppbv
 RT: 8.612 min Scan# 676
 Delta R.T. 0.000 min
 Lab File: 0307_33.D
 Acq: 8 Mar 2023 9:23 am

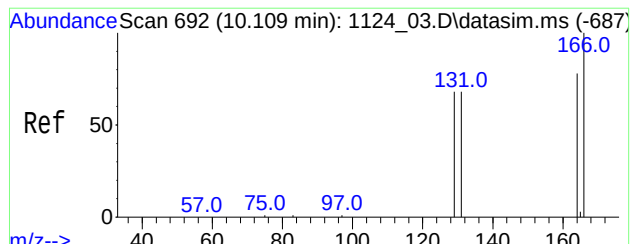
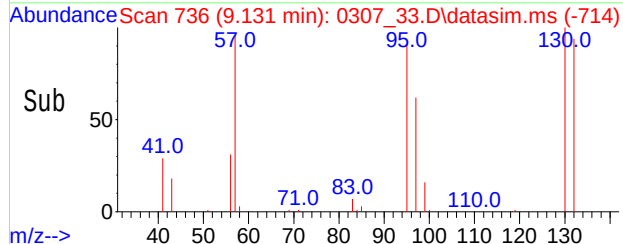
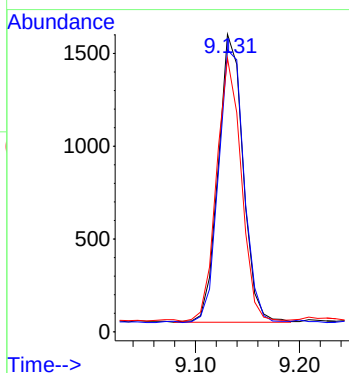
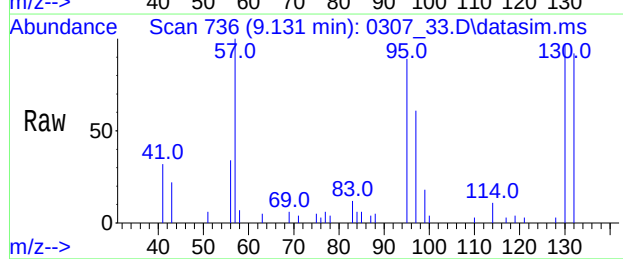
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5082		
119	97.5	77.7	116.5	
121	32.2	25.1	37.7	





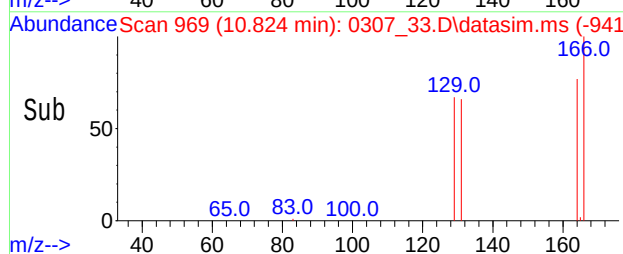
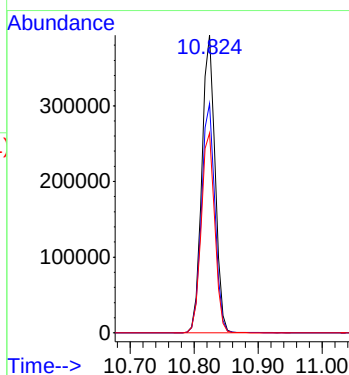
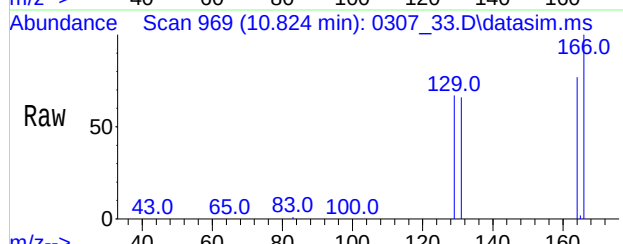
#99
Trichloroethene(sim)
Conc: 8\$ 0.052 ppbv
RT: 9.131 min Scan# 736
Delta R.T. -0.009 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

Tgt Ion	Ratio	Lower	Upper
130	100		
132	97.4	77.0	115.6
95	90.2	71.4	107.2



#105
Tetrachloroethene(sim)
Conc: 8\$ 7.722 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_33.D
Acq: 8 Mar 2023 9:23 am

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.1	57.9	97.9
129	68.7	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54081

Canister: 28563 Lab File ID: 0307_34.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

Matrix: AIR Dilution Factor: 1

VP-8

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	0.517		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	21.2	S	0.531	0.531	r
67-64-1	Acetone	3.75	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.257		0.178	0.178	r
67-63-0	Isopropylalcohol	1.73	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	0.461		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	1.17		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	0.453		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

VP-8

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079

Lab Sample ID: CN54081

Canister: 28563

Lab File ID: 0307_34.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/08/23

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)	0.076		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)	0.066		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_34.D
 Acq On : 8 Mar 2023 10:02 am
 Operator :
 Client ID : VP-8
 Lab ID : CN54081
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Mar 08 11:48:59 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

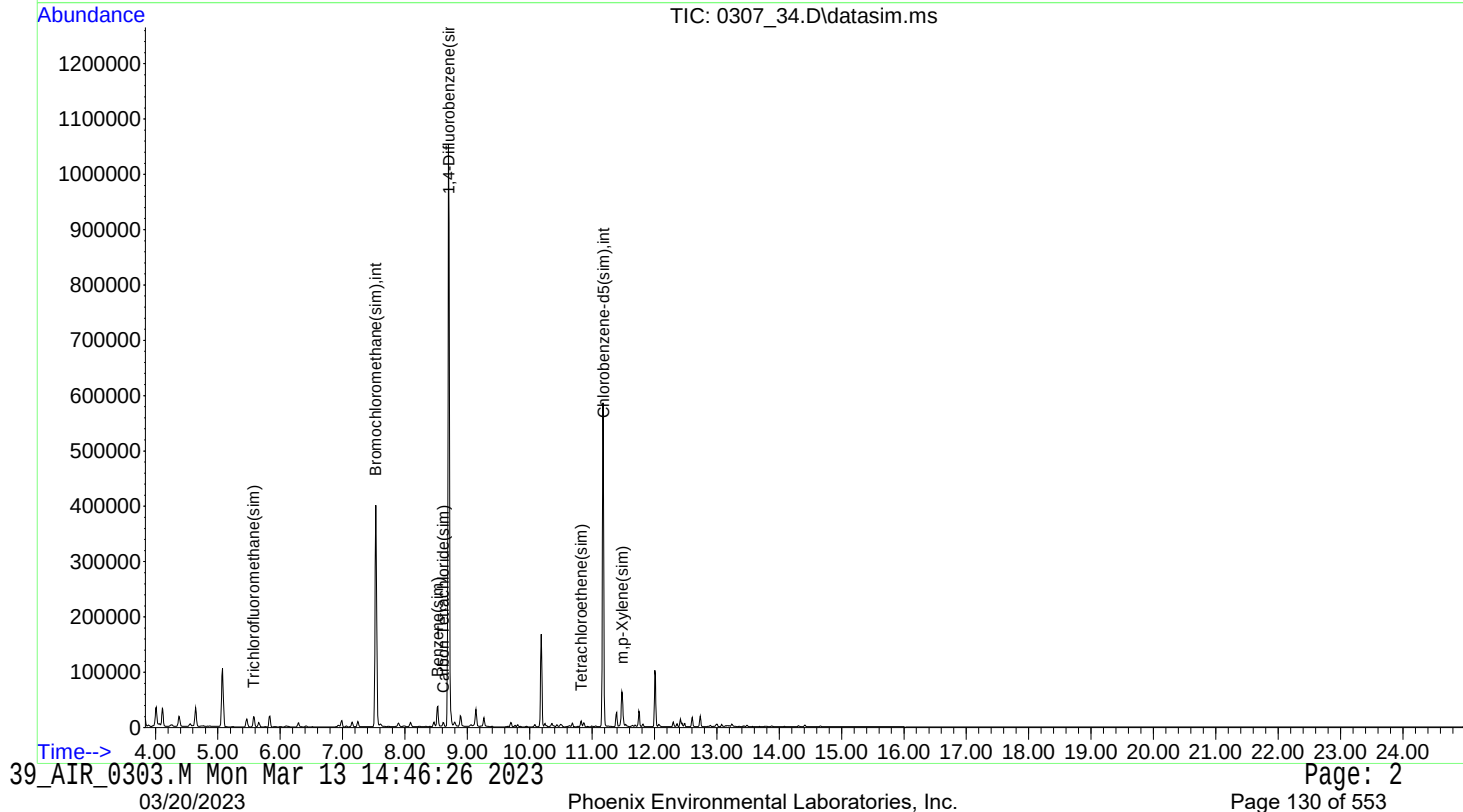
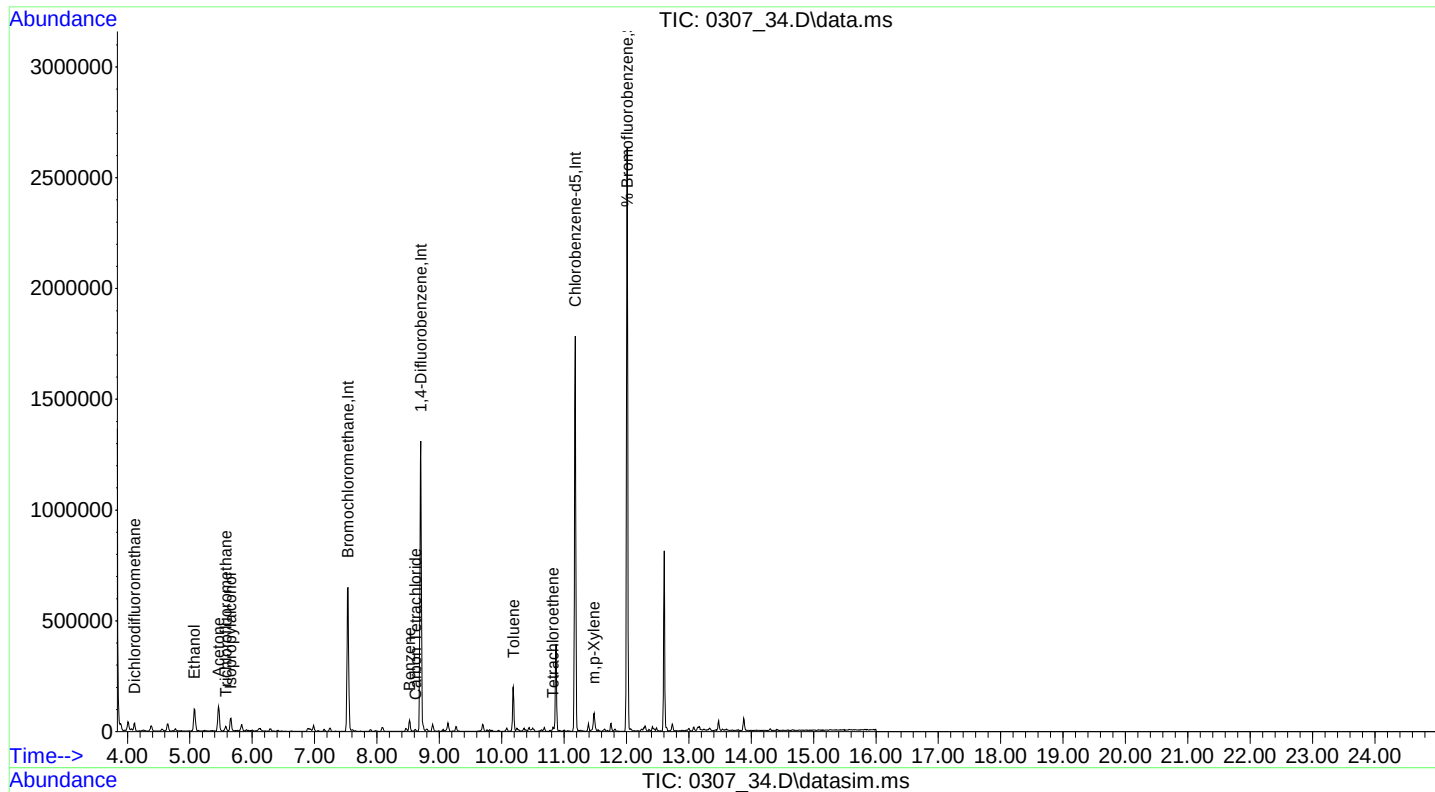
Compound	R.T	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.537	130	294414	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1077630	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	447124	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	283345	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1077768	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	446615	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	677401	10.242	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.40%		
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.114	85	35901	0.517	ppbv	99
11) Ethanol	5.071	45	110146	21.169	ppbv	97
12) Acetone	5.461	43	99945	3.745	ppbv	88
13) Trichlorofluoromethane	5.578	101	18934	0.257	ppbv	97
14) Isopropylalcohol	5.651	45	54207	1.733	ppbv	94
34) Benzene	8.522	78	39535	0.461	ppbv	95
35) Carbon Tetrachloride	8.617	117	5652	0.083	ppbv	96
49) Toluene	10.187	91	131054	1.172	ppbv	97
53) Tetrachloroethene	10.821	166	5105	0.070	ppbv	96
58) m,p-Xylene	11.481	91	47428	0.453	ppbv	97
85) Trichlorofluoromethane...	5.574	101	19123	0.241	ppbv#	99
88) Benzene(sim)	8.522	78	39535	0.434	ppbv	95
89) Carbon Tetrachloride(sim)	8.612	117	5440	0.076	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	4830	0.066	ppbv	99
108) m,p-Xylene(sim)	11.481	91	47428	0.432	ppbv	97

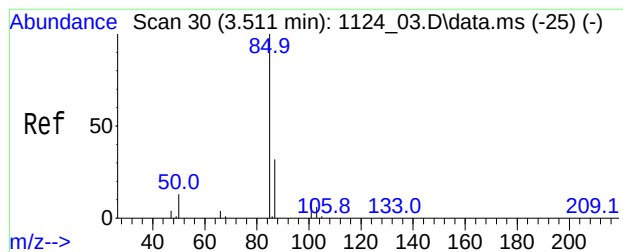
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_34.D
 Acq On : 8 Mar 2023 10:02 am
 Operator :
 Client ID : VP-8
 Lab ID : CN54081
 ALS Vial : 25 Sample Multiplier: 1

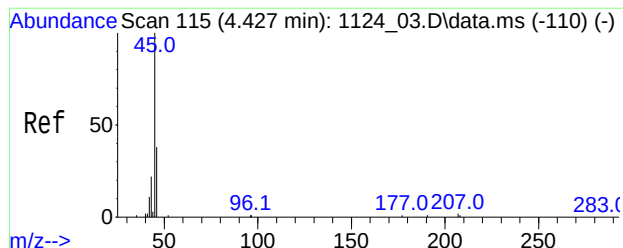
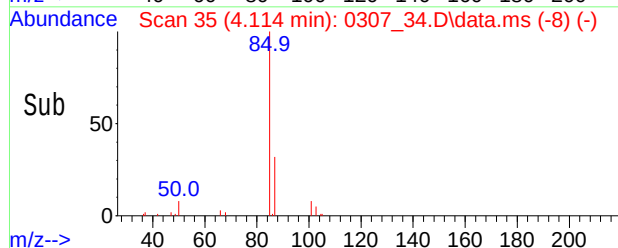
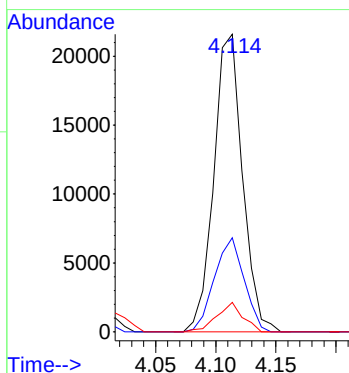
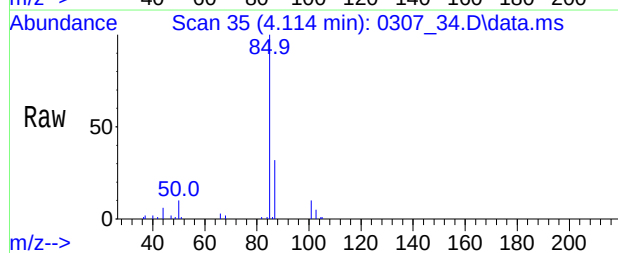
Quant Time: Mar 08 11:48:59 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration





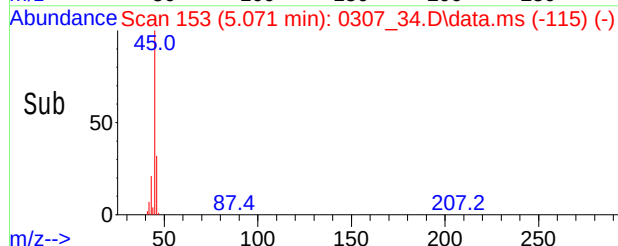
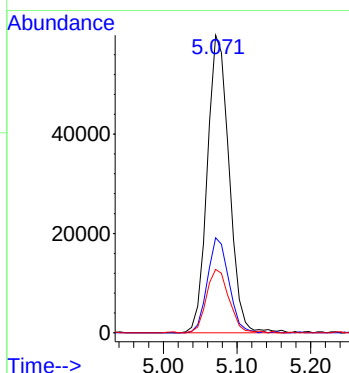
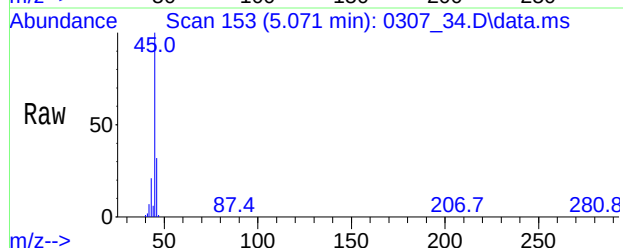
#3
Dichlorodifluoromethane
Conc: 8\$ 0.517 ppbv
RT: 4.114 min Scan# 35
Delta R.T. 0.016 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

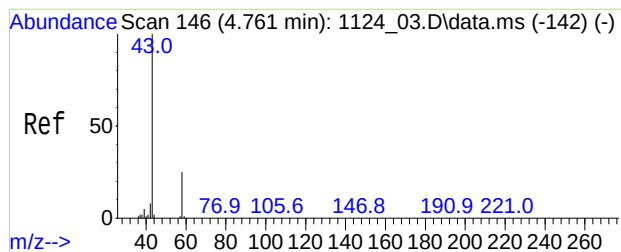
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.2	39.4
50	8.9	6.2	9.2



#11
Ethanol
Conc: 8\$ 21.169 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.008 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

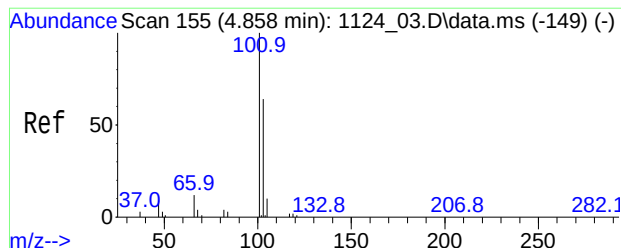
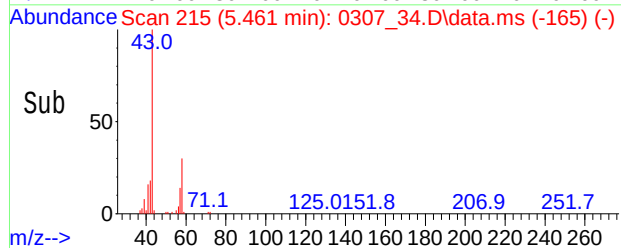
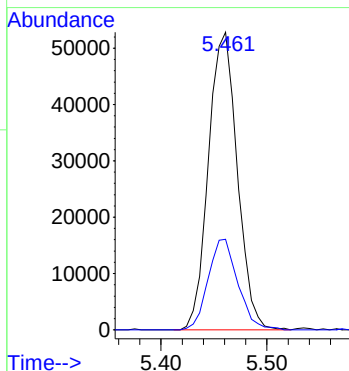
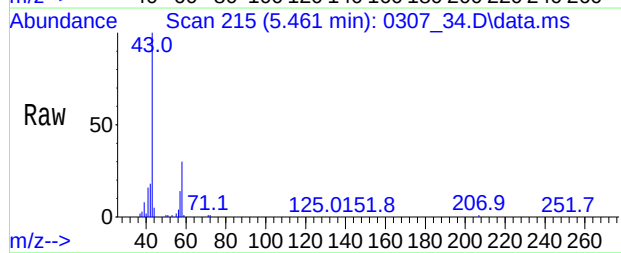
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.5	27.0	40.4
43	22.8	17.0	25.4





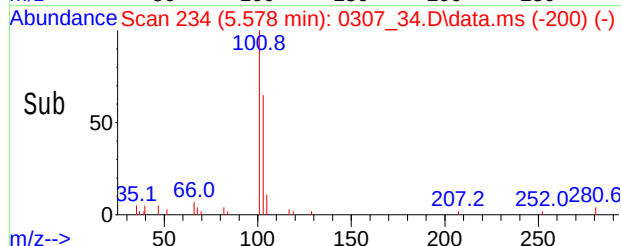
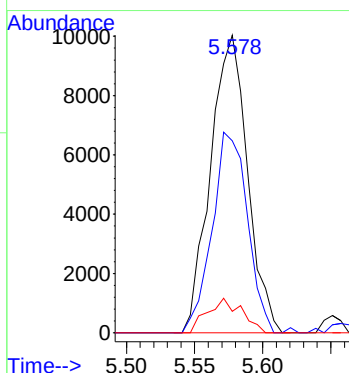
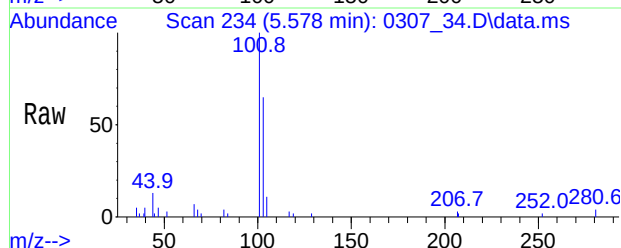
#12
Acetone
Conc: 8\$ 3.745 ppbv
RT: 5.461 min Scan# 215
Delta R.T. 0.006 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

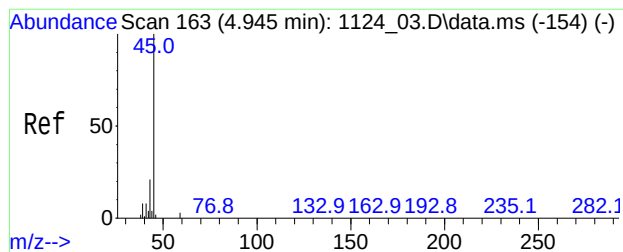
Tgt Ion: 43 Resp: 99945
Ion Ratio Lower Upper
43 100
58 31.3 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.257 ppbv
RT: 5.578 min Scan# 234
Delta R.T. 0.006 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

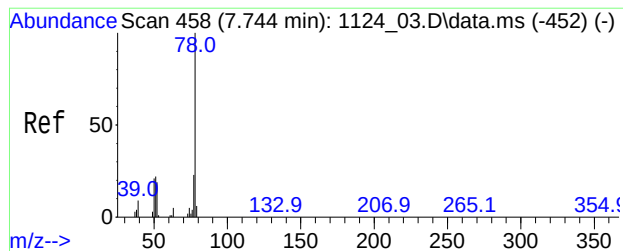
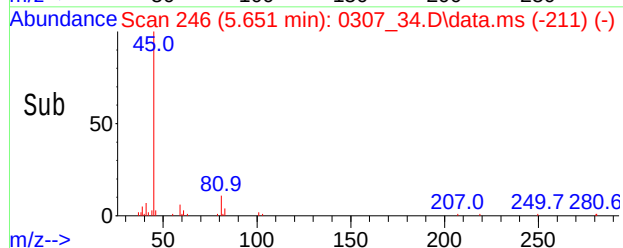
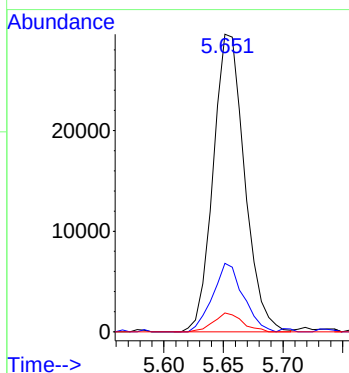
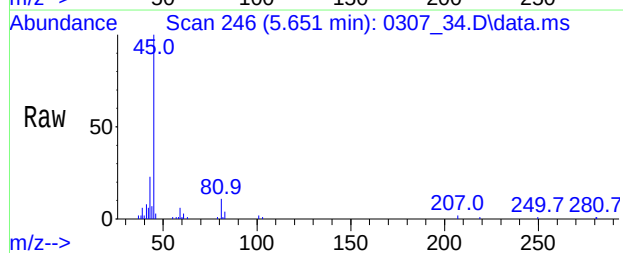
Tgt Ion: 101 Resp: 18934
Ion Ratio Lower Upper
101 100
103 64.1 52.9 79.3
66 10.8 7.3 10.9





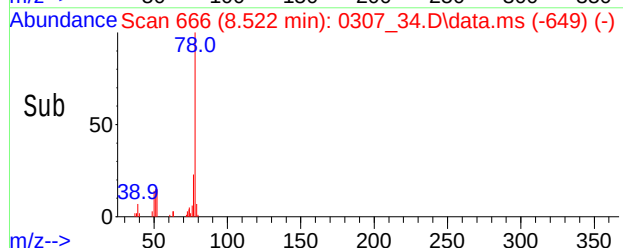
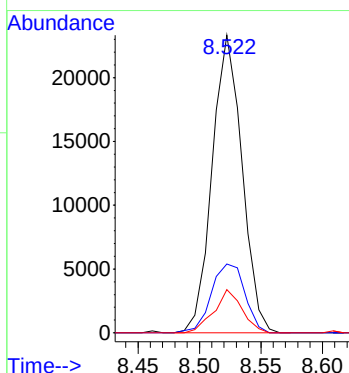
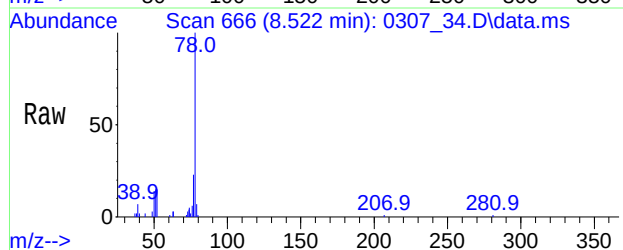
#14
Isopropylalcohol
Conc: 8\$ 1.733 ppbv
RT: 5.651 min Scan# 246
Delta R.T. 0.012 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

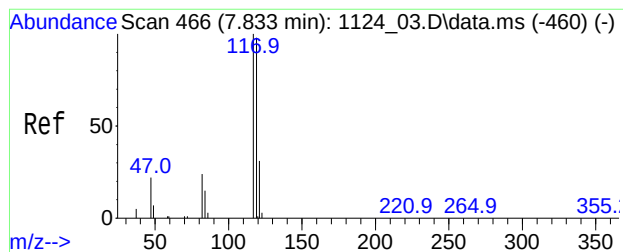
Tgt Ion:	45	Resp:	54207
Ion Ratio	Lower	Upper	
45	100		
43	22.3	15.4	23.0
59	5.9	3.9	5.9



#34
Benzene
Conc: 8\$ 0.461 ppbv
RT: 8.522 min Scan# 666
Delta R.T. -0.000 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

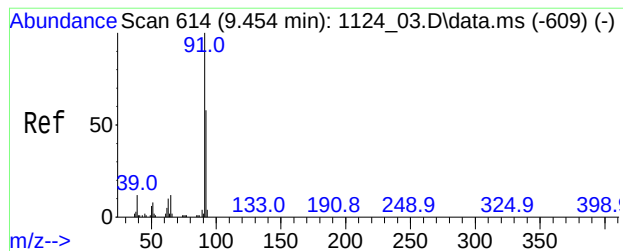
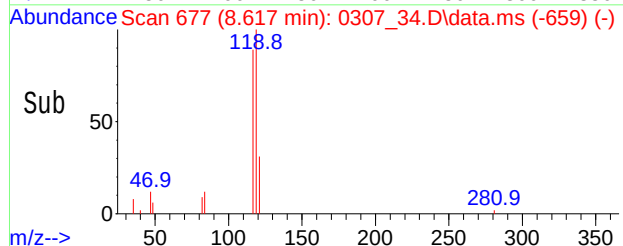
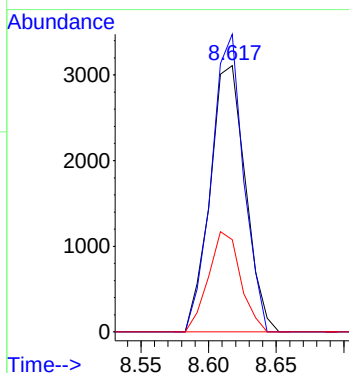
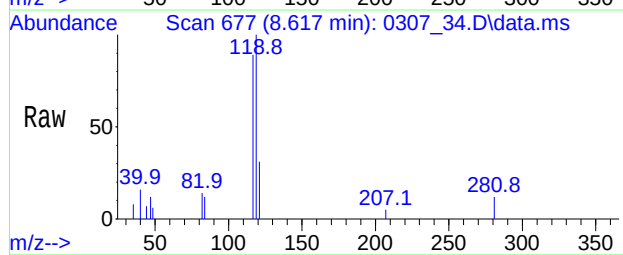
Tgt Ion:	78	Resp:	39535
Ion Ratio	Lower	Upper	
78	100		
77	26.0	18.4	27.6
51	13.6	9.7	14.5





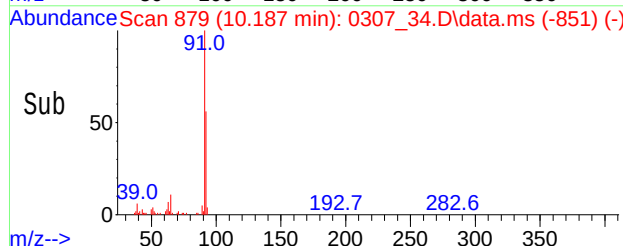
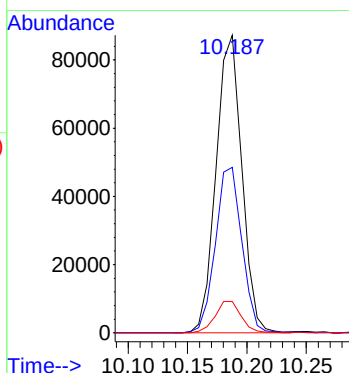
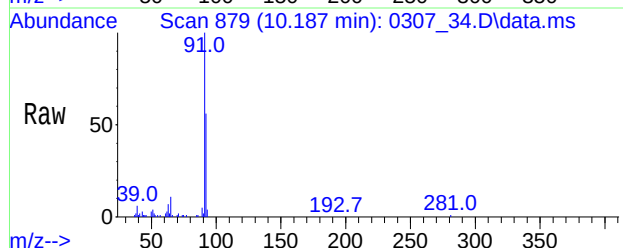
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.617 min Scan# 677
Delta R.T. 0.009 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

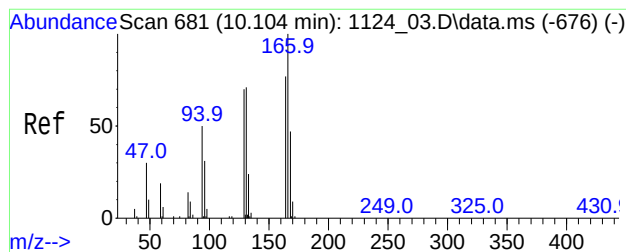
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5652		
119	101.1	77.0	117.0	
121	34.3	11.5	51.5	



#49
Toluene
Conc: 8\$ 1.172 ppbv
RT: 10.187 min Scan# 879
Delta R.T. -0.000 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

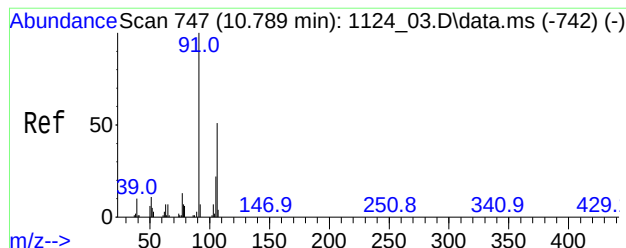
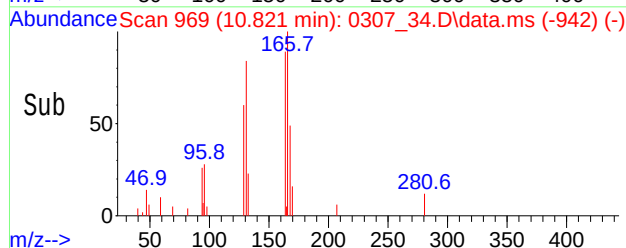
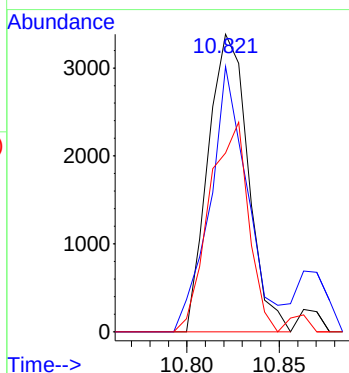
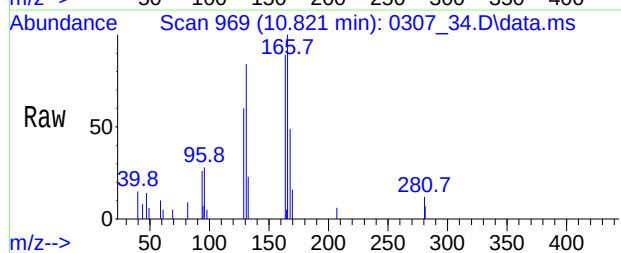
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	131054		
92	57.3	44.6	66.8	
65	10.8	7.2	10.8	





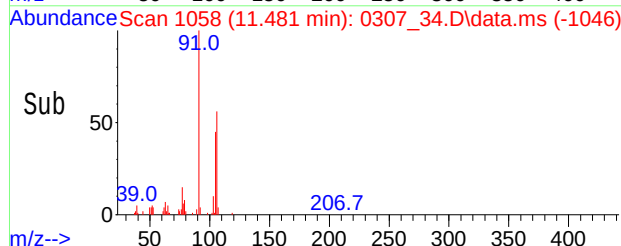
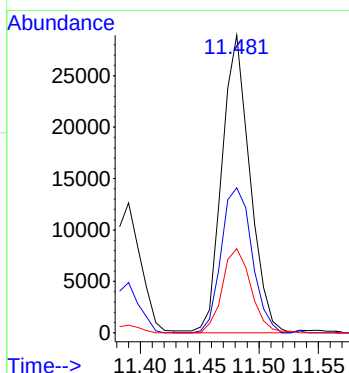
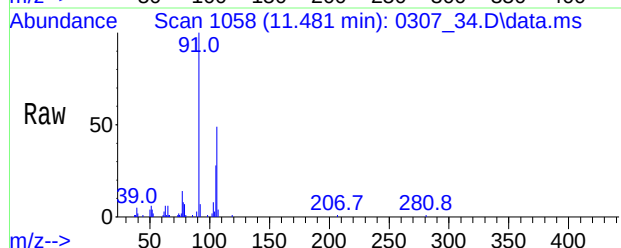
#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

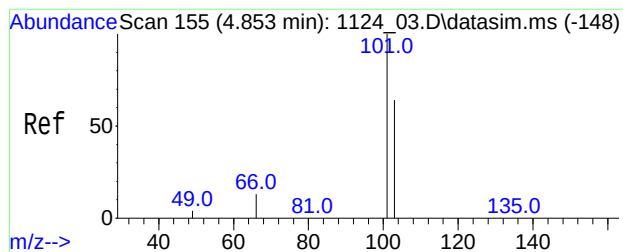
Tgt Ion	166	Resp	5105
Ion Ratio	Lower	Upper	
166	100		
164	83.2	62.3	93.5
129	69.3	54.7	82.1



#58
m,p-Xylene
Conc: 8\$ 0.453 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. -0.008 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

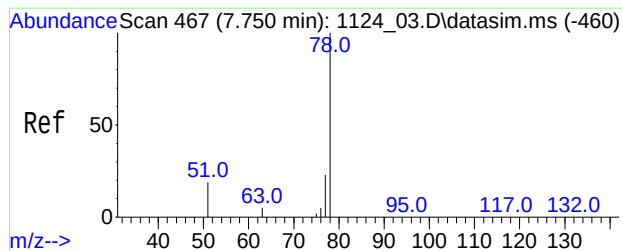
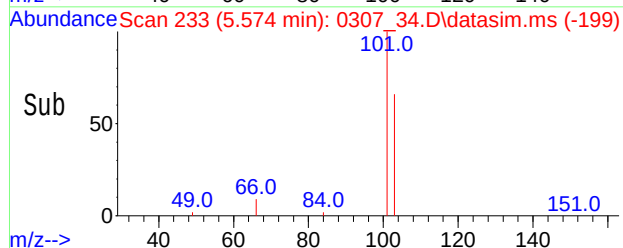
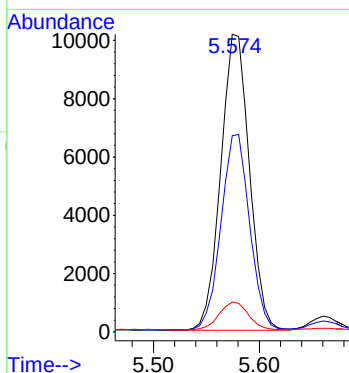
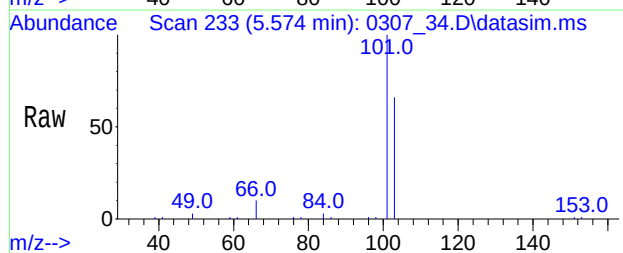
Tgt Ion	91	Resp	47428
Ion Ratio	Lower	Upper	
91	100		
106	53.6	43.1	64.7
105	29.0	20.2	30.2





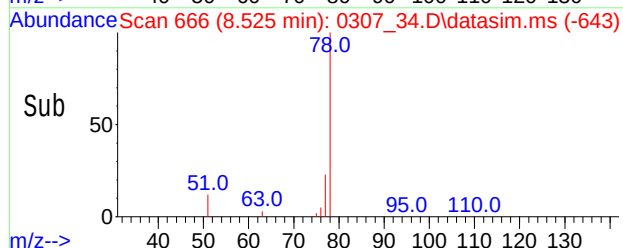
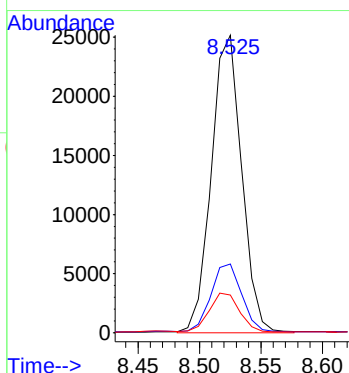
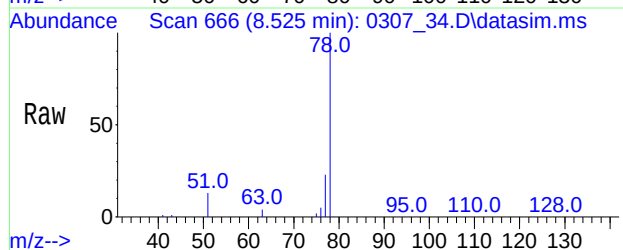
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.241 ppbv
RT: 5.574 min Scan# 233
Delta R.T. 0.006 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

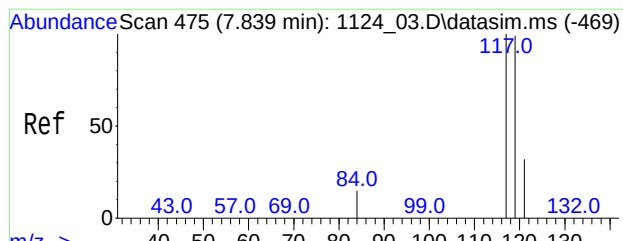
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19123		
103	65.9	52.2	78.4	
66	9.7	9.3	9.3#	



#88
Benzene(sim)
Conc: 8\$ 0.434 ppbv
RT: 8.522 min Scan# 666
Delta R.T. -0.000 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

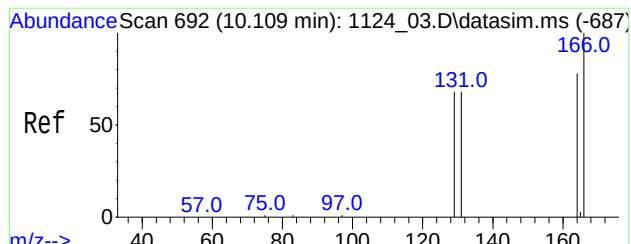
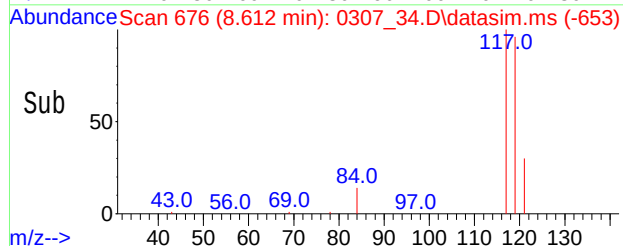
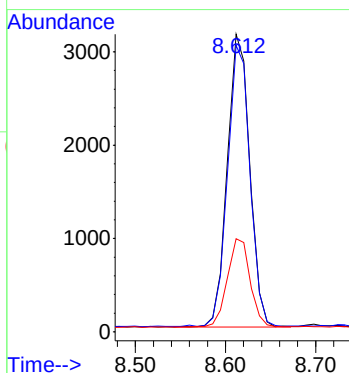
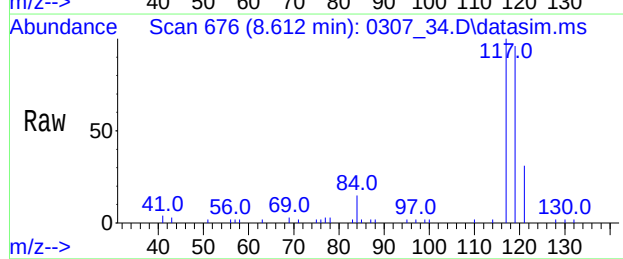
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	39535		
77	26.0	18.4	27.6	
51	13.6	9.7	14.5	





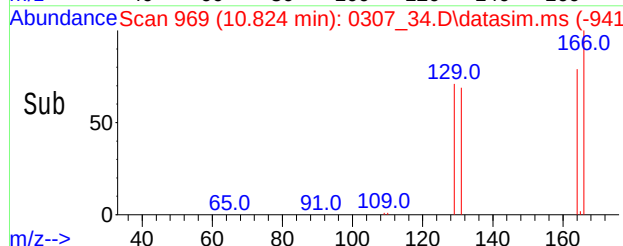
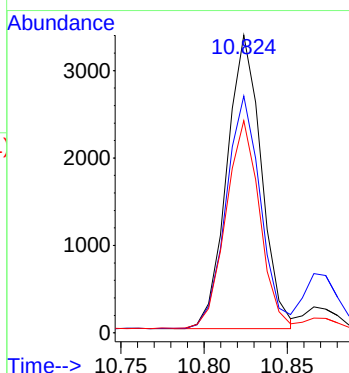
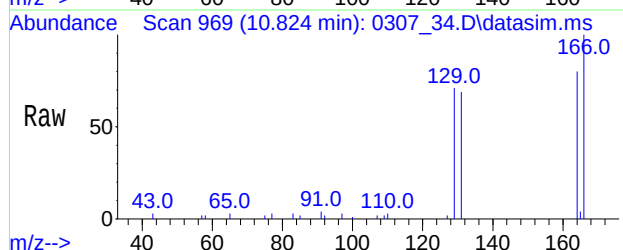
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 8.612 min Scan# 676
Delta R.T. -0.000 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

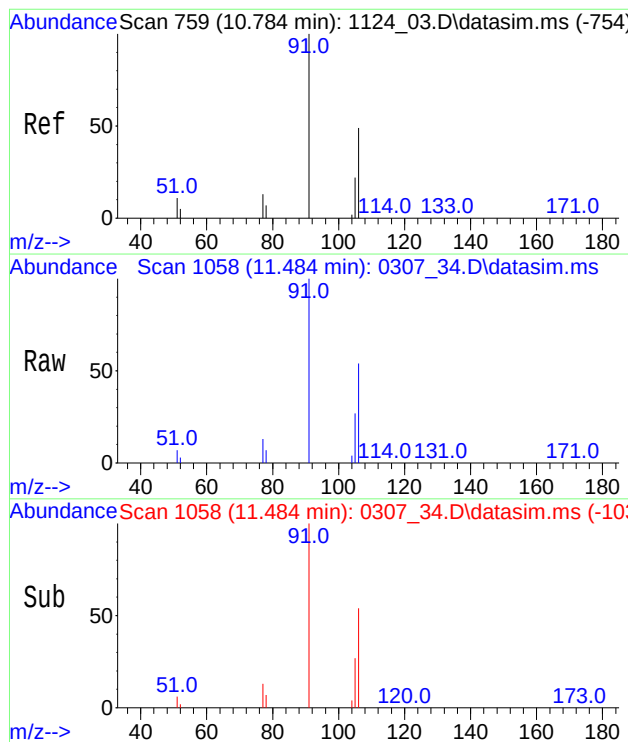
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	77.7	116.5
121	30.8	25.1	37.7



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.066 ppbv
RT: 10.824 min Scan# 969
Delta R.T. -0.000 min
Lab File: 0307_34.D
Acq: 8 Mar 2023 10:02 am

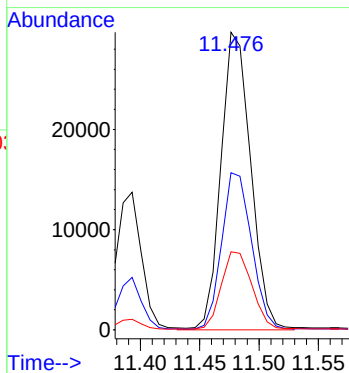
Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.7	57.9	97.9
129	70.3	50.0	90.0





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.432 ppbv
 RT: 11.481 min Scan# 1058
 Delta R.T. -0.008 min
 Lab File: 0307_34.D
 Acq: 8 Mar 2023 10:02 am

Tgt Ion: 91	Resp: 47428
Ion Ratio	Lower Upper
91 100	
106 53.6	48.5 59.3
105 29.1	20.2 30.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54082</u>
Canister:	<u>19844</u>	Lab File ID:	<u>0308_08.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	0.477		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	4.48	S	0.531	0.531	r
67-64-1	Acetone	1.57	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.245		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
123-91-1	1,4-Dioxane	0.278	U	0.278	0.278	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	0.266	U	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.:	GCN54079	Lab Sample ID:	CN54082
Canister:	19844	Lab File ID:	0308_08.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
		Date Received:	03/07/23
Purge Volume	200 (cc)	Date Analyzed:	03/08/23
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
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.067		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
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)	0.163		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_08.D
 Acq On : 8 Mar 2023 3:17 pm
 Operator :
 Client ID : VP-7
 Lab ID : CN54082
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 09 09:27:25 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

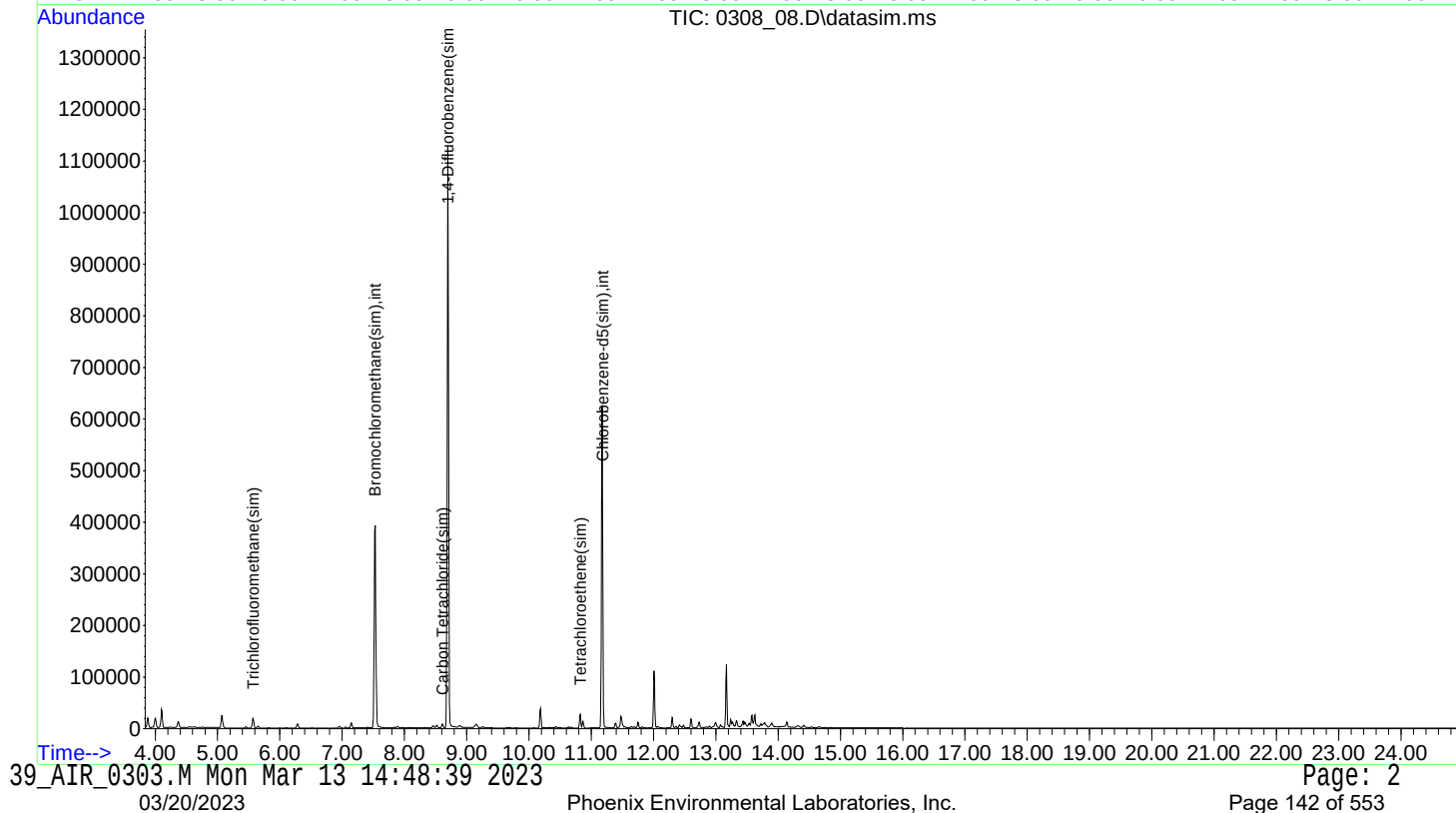
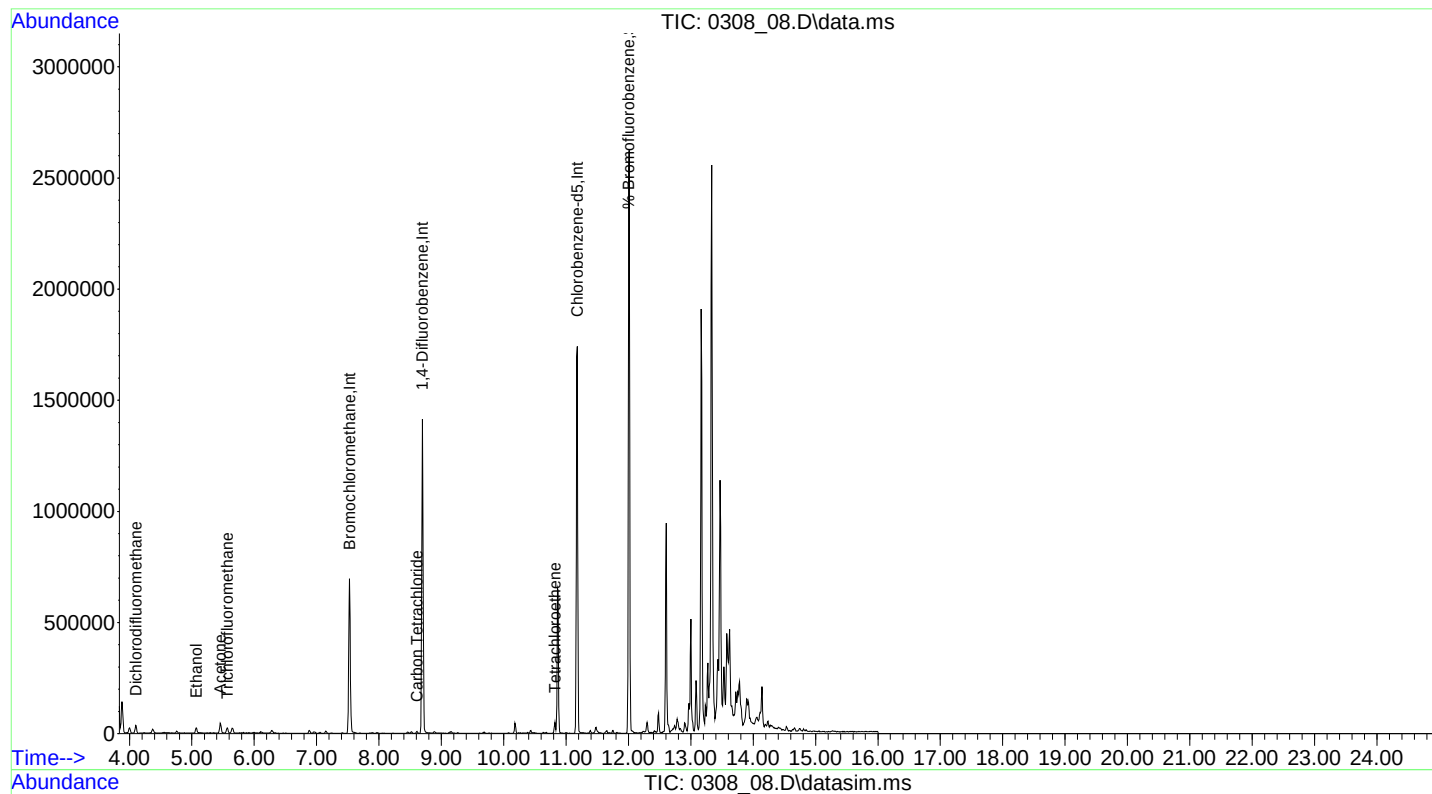
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

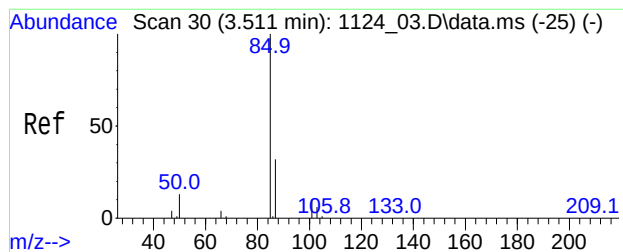
Internal Standards						
1) Bromochloromethane	7.529	130	306508	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1115610	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	467011	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	295970	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1115519	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	467011	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.004	95	707774	10.246	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.50%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	34479	0.477	ppbv	97
11) Ethanol	5.071	45	24274	4.481	ppbv	98
12) Acetone	5.455	43	43557	1.568	ppbv	97
13) Trichlorofluoromethane	5.565	101	18826	0.245	ppbv	98
35) Carbon Tetrachloride	8.609	117	5046	0.071	ppbv	99
49) Toluene	10.181	91	30276	0.261	ppbv	98
53) Tetrachloroethene	10.821	166	13411	0.178	ppbv	95
85) Trichlorofluoromethane...	5.568	101	19096	0.230	ppbv#	99
89) Carbon Tetrachloride(sim)	8.612	117	5007	0.067	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	12360	0.163	ppbv	98

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_08.D
Acq On : 8 Mar 2023 3:17 pm
Operator :
Client ID : VP-7
Lab ID : CN54082
ALS Vial : 33 Sample Multiplier: 1

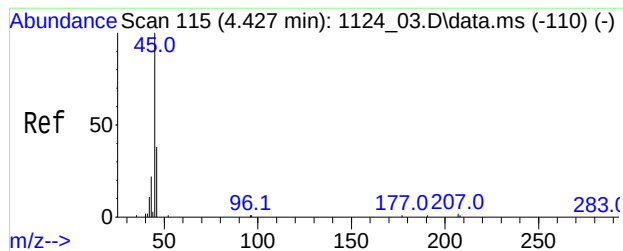
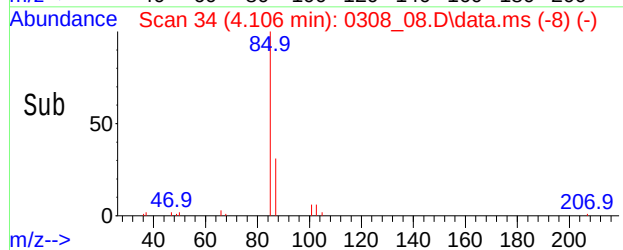
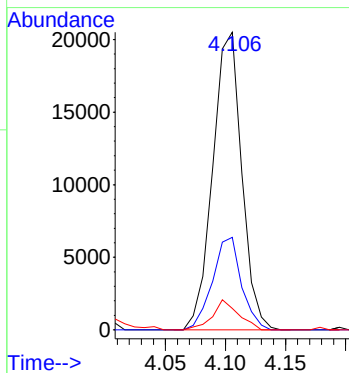
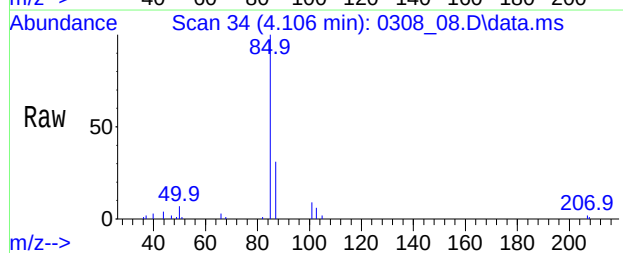
Quant Time: Mar 09 09:27:25 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





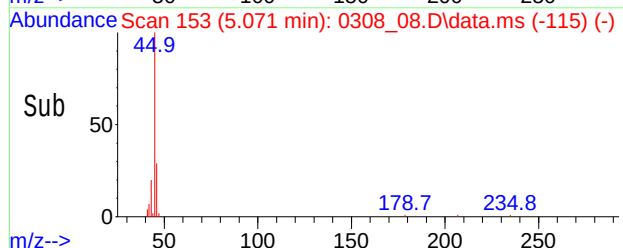
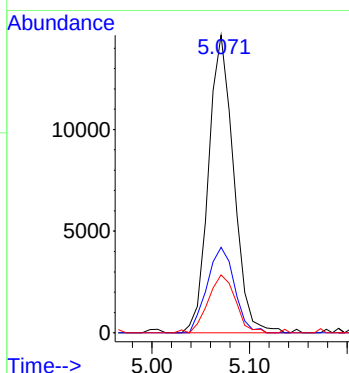
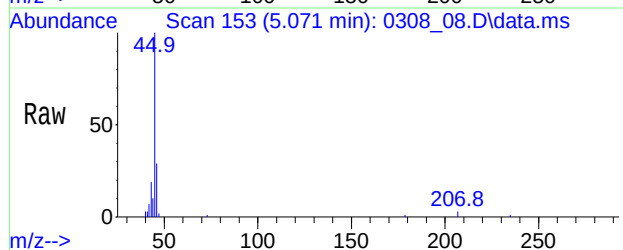
#3
Dichlorodifluoromethane
Conc: 8\$ 0.477 ppbv
RT: 4.106 min Scan# 34
Delta R.T. 0.008 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

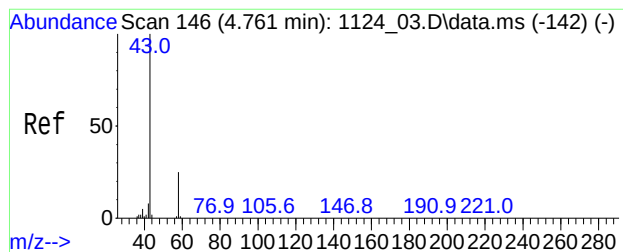
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.2	26.2	39.4
50	8.9	6.2	9.2



#11
Ethanol
Conc: 8\$ 4.481 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.008 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

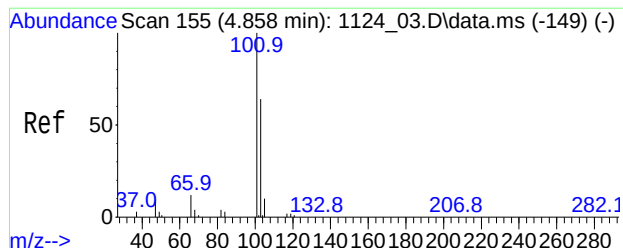
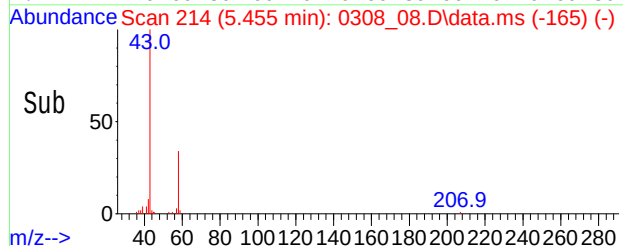
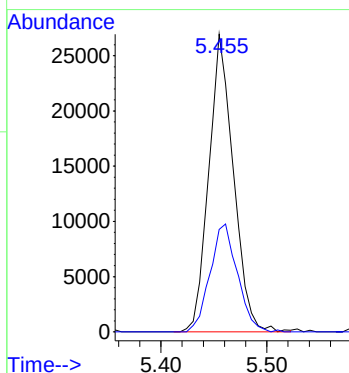
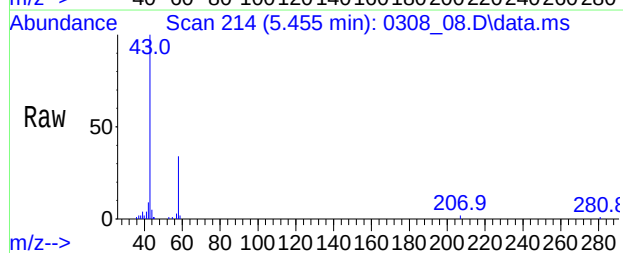
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.4	27.0	40.4
43	22.2	17.0	25.4





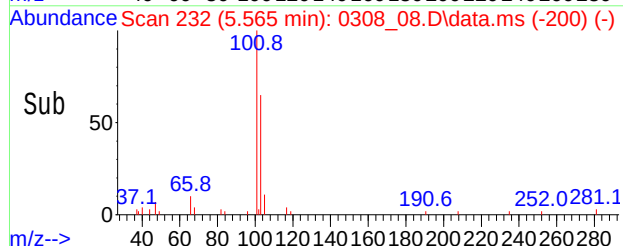
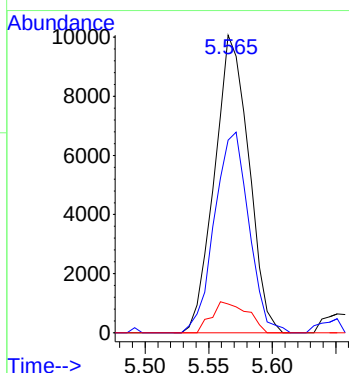
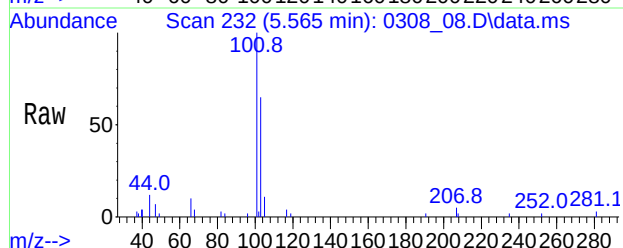
#12
Acetone
Conc: 8\$ 1.568 ppbv
RT: 5.455 min Scan# 214
Delta R.T. 0.000 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

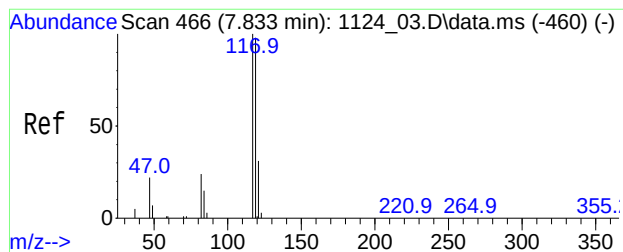
Tgt Ion: 43 Resp: 43557
Ion Ratio Lower Upper
43 100
58 40.3 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.245 ppbv
RT: 5.565 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

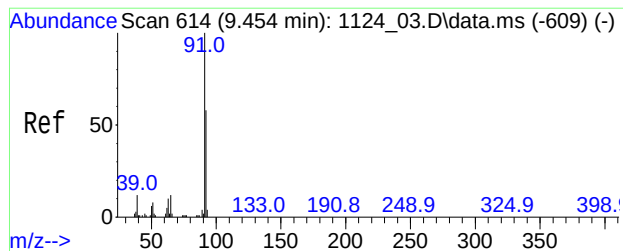
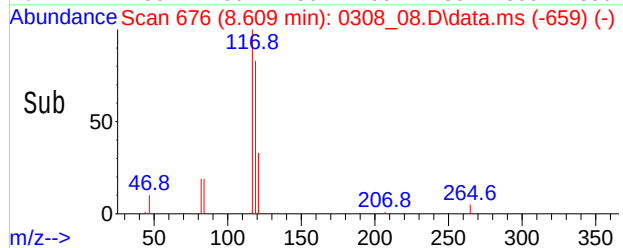
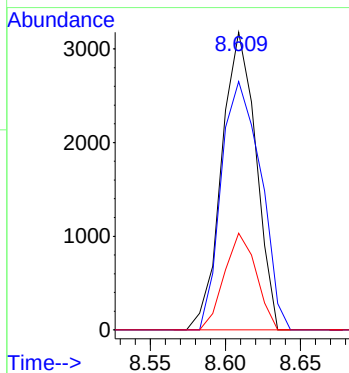
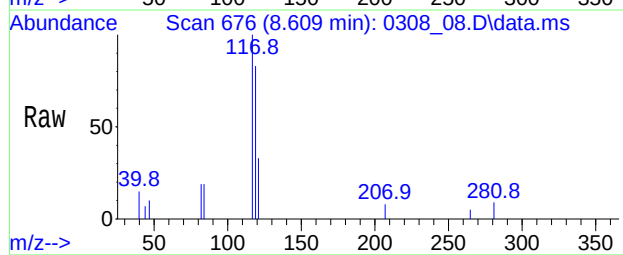
Tgt Ion: 101 Resp: 18826
Ion Ratio Lower Upper
101 100
103 67.8 52.9 79.3
66 10.9 7.3 10.9





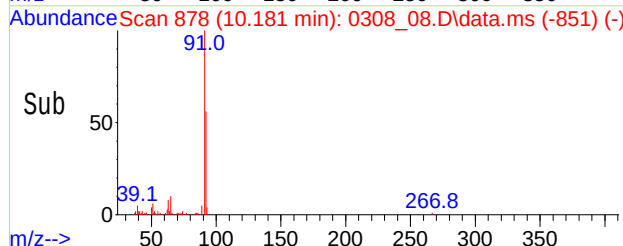
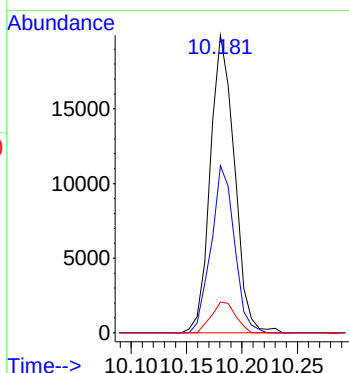
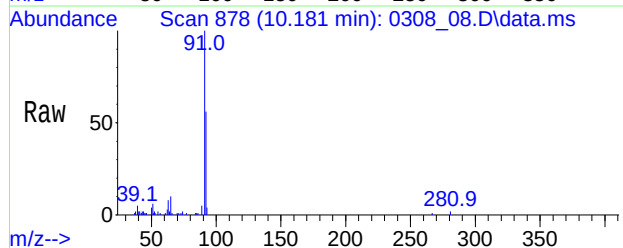
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

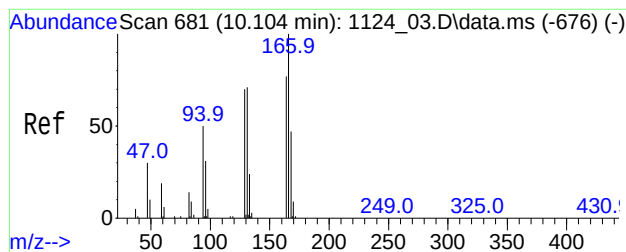
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5046		
119	96.4		77.0	117.0
121	30.2		11.5	51.5



#49
Toluene
Conc: 8\$ 0.261 ppbv
RT: 10.181 min Scan# 878
Delta R.T. -0.007 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

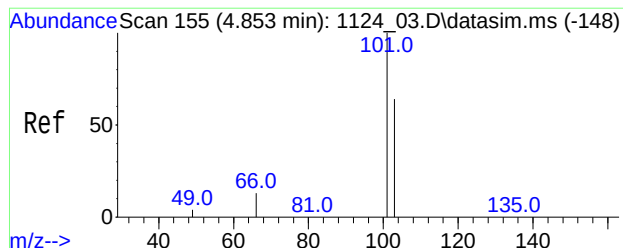
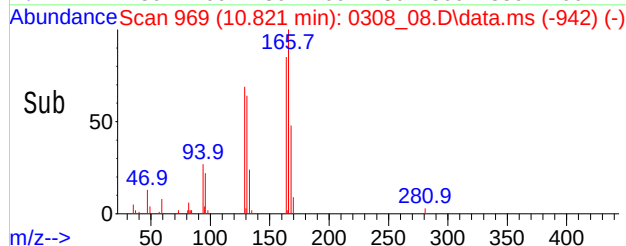
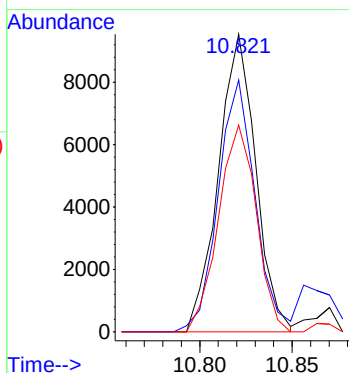
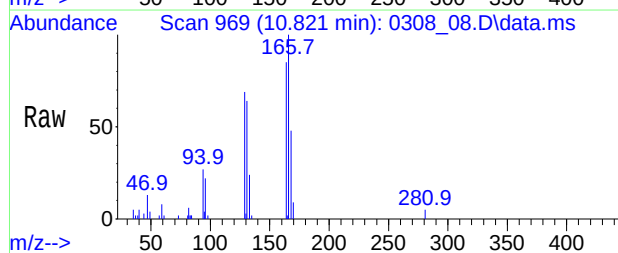
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	30276		
92	54.0		44.6	66.8
65	10.3		7.2	10.8





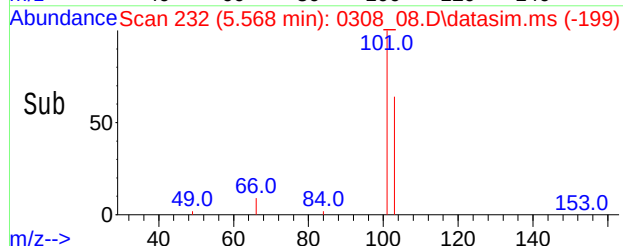
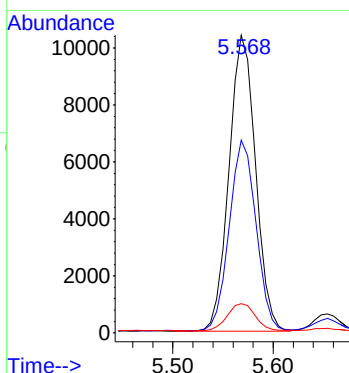
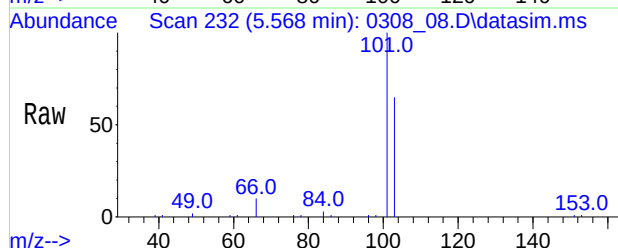
#53
Tetrachloroethene
Conc: 8\$ 0.178 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

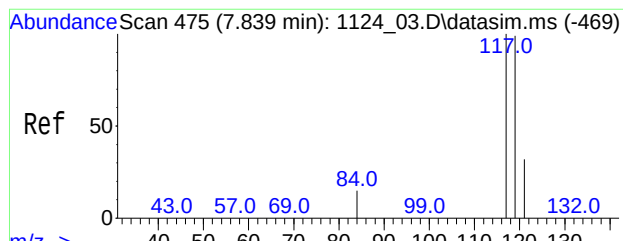
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	13411		
164	83.8	62.3	93.5	
129	70.3	54.7	82.1	



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.230 ppbv
RT: 5.568 min Scan# 232
Delta R.T. -0.000 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

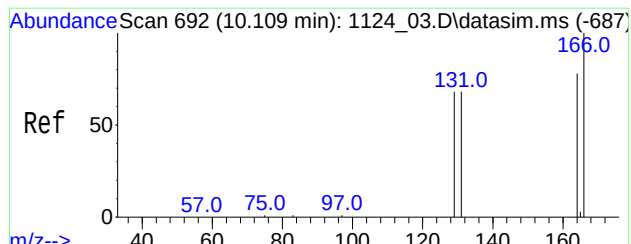
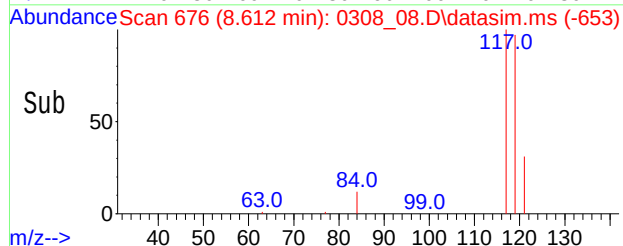
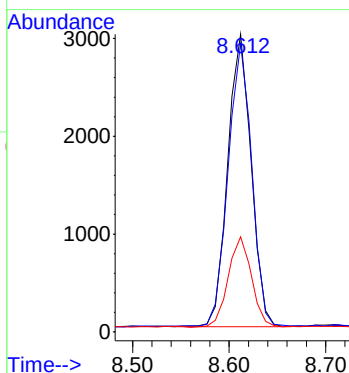
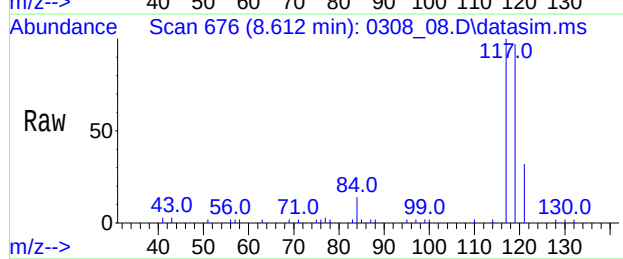
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19096		
103	64.9	52.2	78.4	
66	9.7	9.3	9.3#	





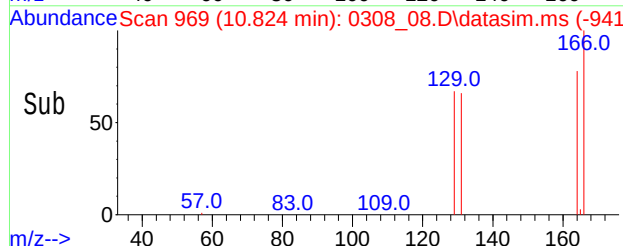
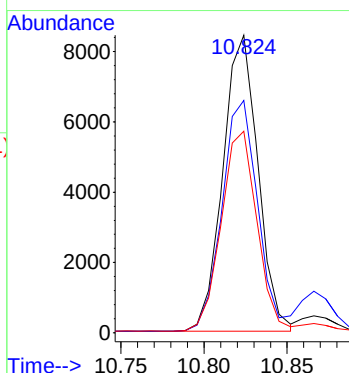
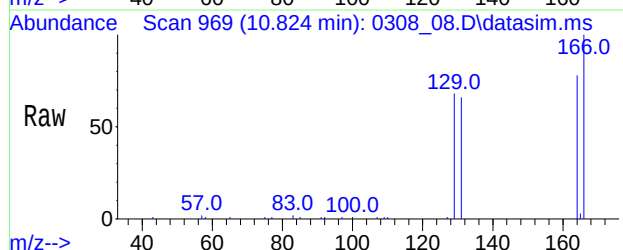
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.067 ppbv
RT: 8.612 min Scan# 676
Delta R.T. -0.000 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5007		
119	97.9	77.7	116.5	
121	31.1	25.1	37.7	



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.163 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0308_08.D
Acq: 8 Mar 2023 3:17 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	12360		
164	79.9	57.9	97.9	
129	69.3	50.0	90.0	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	AMBIENT
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54083</u>	
Canister:	<u>28603</u>	Lab File ID:	<u>0307_19.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/07/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/07/23</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	0.471		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	9.77	S	0.531	0.531	r
67-64-1	Acetone	7.61	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.240		0.178	0.178	r
67-63-0	Isopropylalcohol	1.05	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	5.59		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	0.432		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	0.752		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.370		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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	AMBIENT
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54083</u>	
Canister:	<u>28603</u>	Lab File ID:	<u>0307_19.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/07/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/07/23</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)	0.071		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)	0.178		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	1,1,2,2-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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_19.D
 Acq On : 7 Mar 2023 10:33 pm
 Operator :
 Client ID : AMBIENT
 Lab ID : CN54083
 ALS Vial : 10 Sample Multiplier: 1

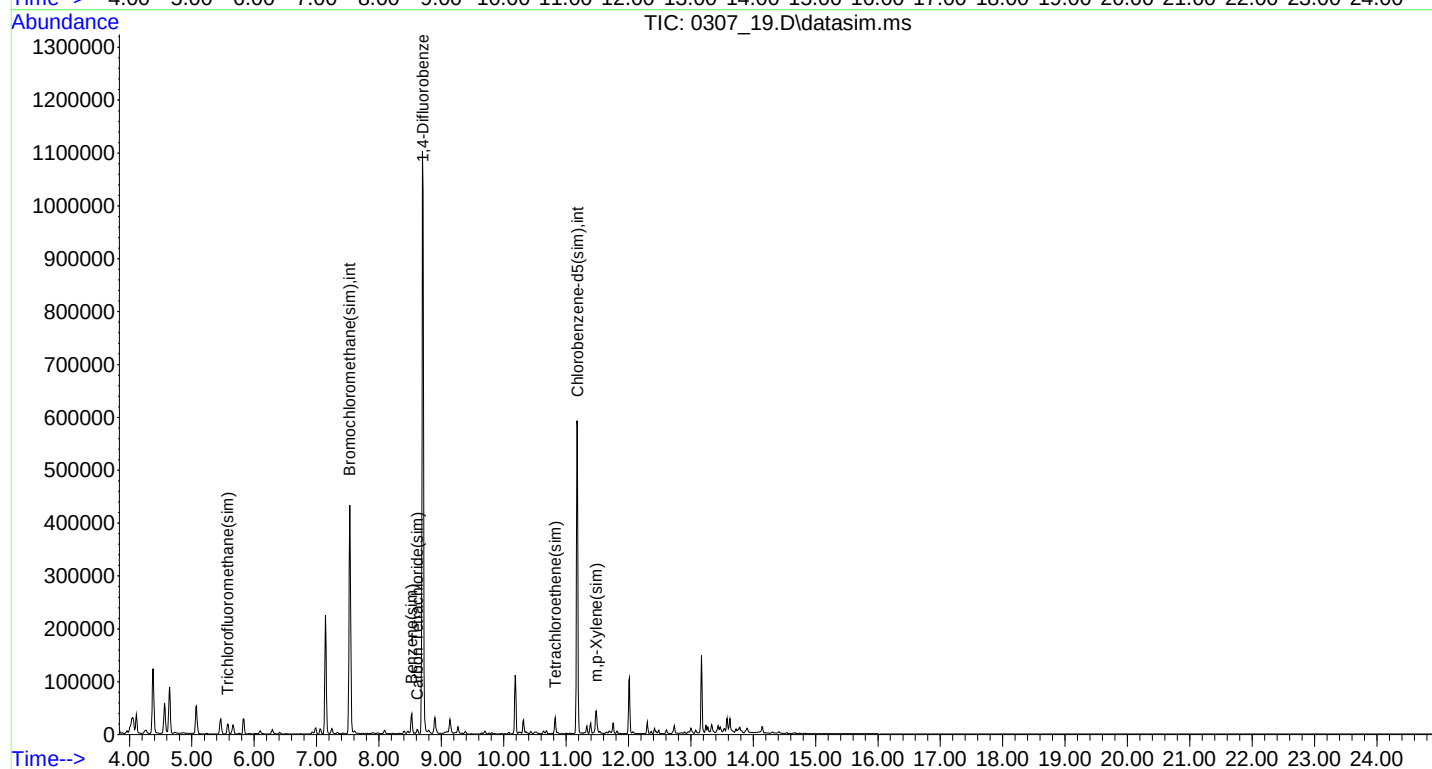
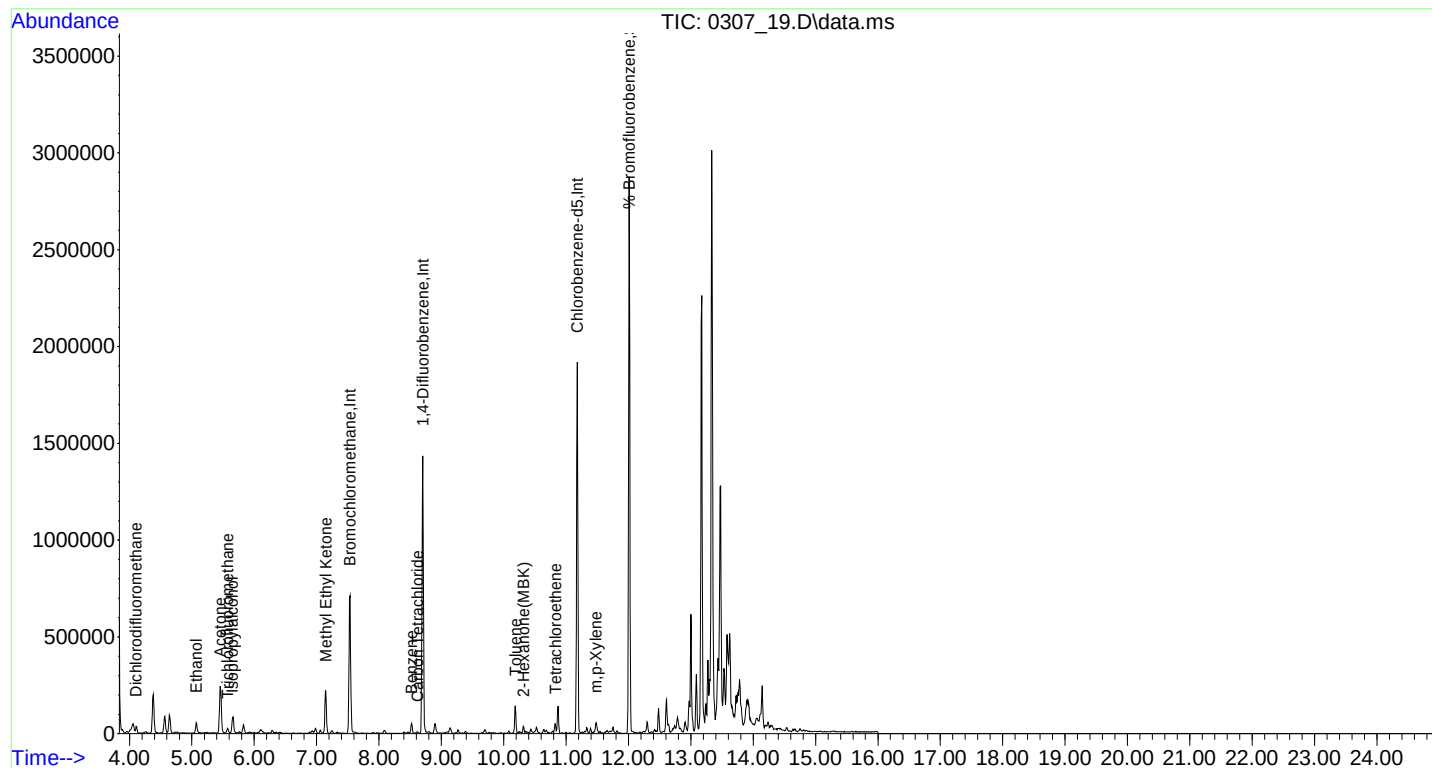
Quant Time: Mar 08 11:43:24 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

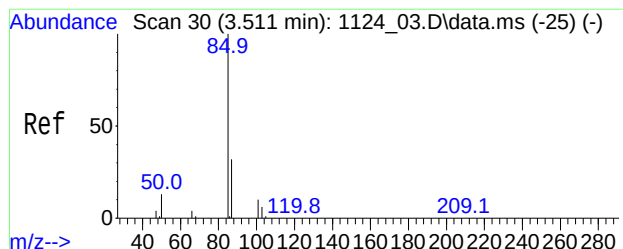
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.537	130	321102	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1157550	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	482548	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	303440	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1157034	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	482548	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	722965	10.128	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.30%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	35690	0.471	ppbv	99
11) Ethanol	5.071	45	55452	9.772	ppbv	98
12) Acetone	5.455	43	221609	7.613	ppbv	94
13) Trichlorofluoromethane	5.571	101	19326	0.240	ppbv	95
14) Isopropylalcohol	5.645	45	35663	1.045	ppbv#	85
26) Methyl Ethyl Ketone	7.148	43	222123	5.594	ppbv	99
34) Benzene	8.522	78	40468	0.432	ppbv#	94
35) Carbon Tetrachloride	8.617	117	5221	0.070	ppbv	93
49) Toluene	10.188	91	90384	0.752	ppbv	98
51) 2-Hexanone(MBK)	10.314	43	16716	0.370	ppbv#	96
53) Tetrachloroethene	10.828	166	15144	0.193	ppbv	97
58) m,p-Xylene	11.481	91	32972	0.292	ppbv	100
85) Trichlorofluoromethane...	5.574	101	19750	0.232	ppbv#	100
88] Benzene(sim)	8.522	78	40468	0.415	ppbv#	94
89] Carbon Tetrachloride(sim)	8.612	117	5378	0.071	ppbv	98
105] Tetrachloroethene(sim)	10.824	166	13953	0.178	ppbv	99
108] m,p-Xylene(sim)	11.481	91	32972	0.278	ppbv	100

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_19.D
Acq On : 7 Mar 2023 10:33 pm
Operator :
Client ID : AMBIENT
Lab ID : CN54083
ALS Vial : 10 Sample Multiplier: 1

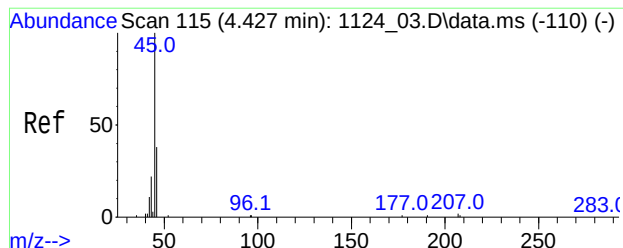
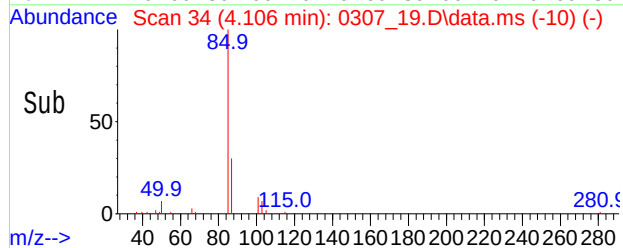
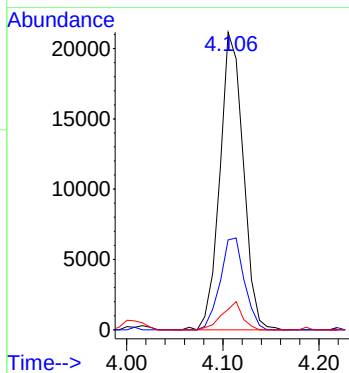
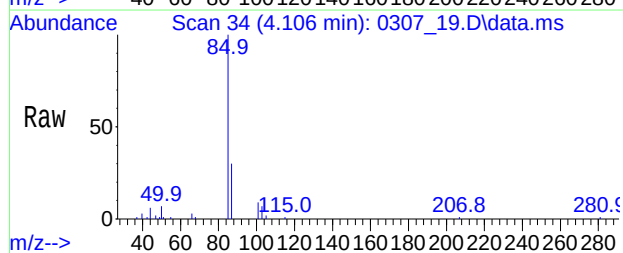
Quant Time: Mar 08 11:43:24 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





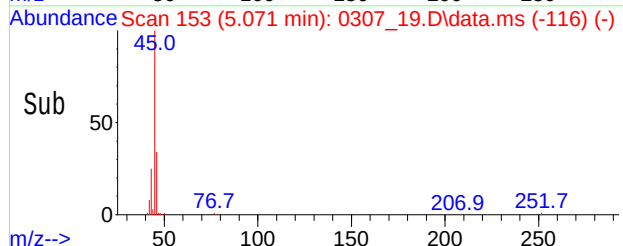
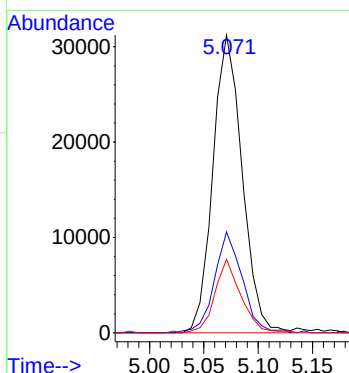
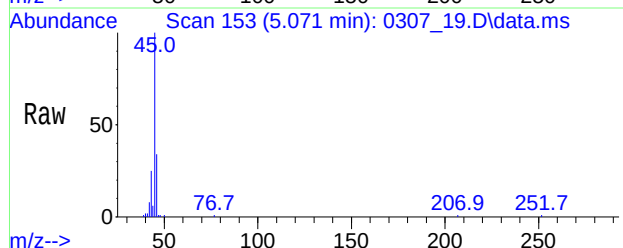
#3
Dichlorodifluoromethane
Conc: 8\$ 0.471 ppbv
RT: 4.106 min Scan# 34
Delta R.T. -0.008 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

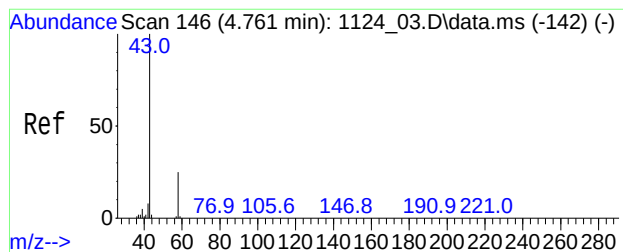
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.1	26.2	39.4
50	8.2	6.2	9.2



#11
Ethanol
Conc: 8\$ 9.772 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

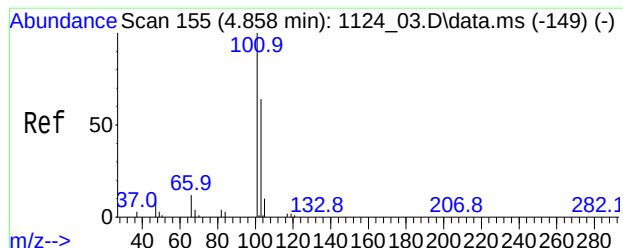
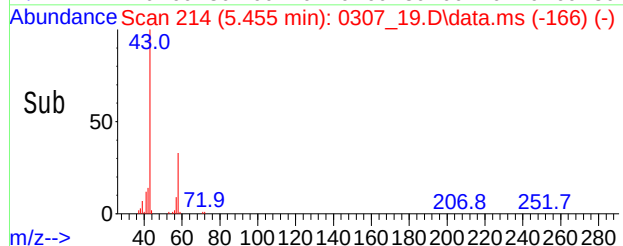
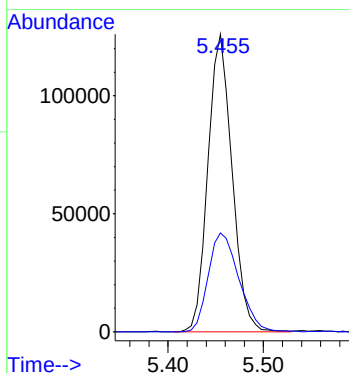
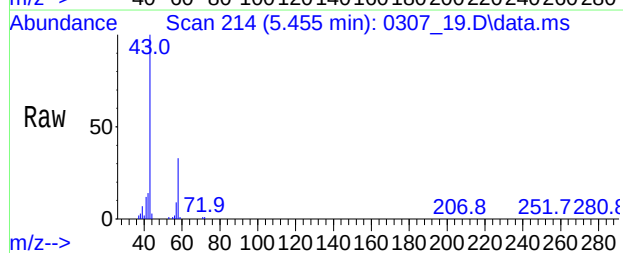
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.0	27.0	40.4
43	21.9	17.0	25.4





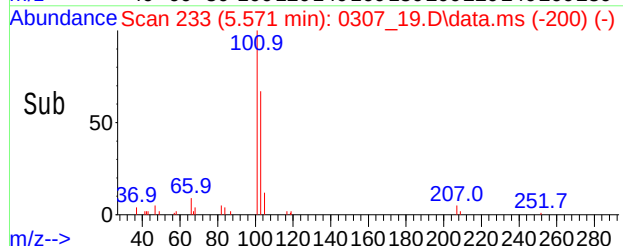
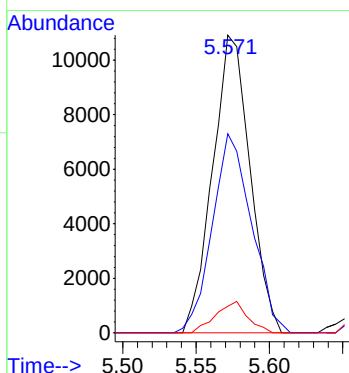
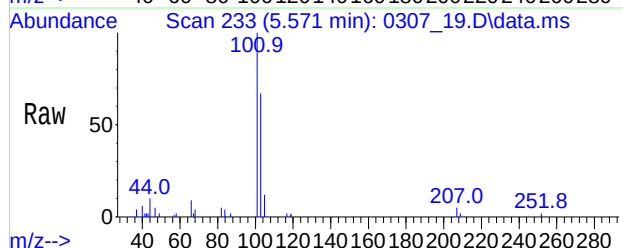
#12
Acetone
Conc: 8\$ 7.613 ppbv
RT: 5.455 min Scan# 214
Delta R.T. -0.006 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

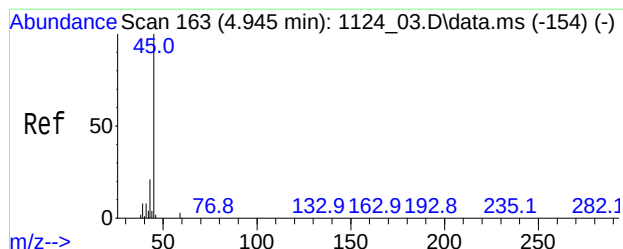
Tgt Ion: 43 Resp: 221609
Ion Ratio Lower Upper
43 100
58 42.3 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.240 ppbv
RT: 5.571 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

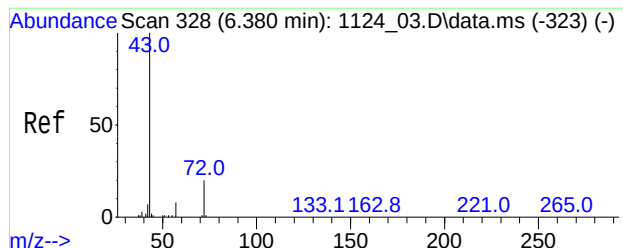
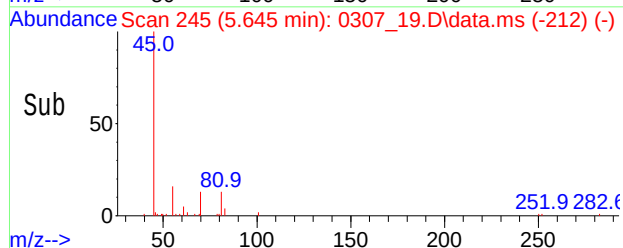
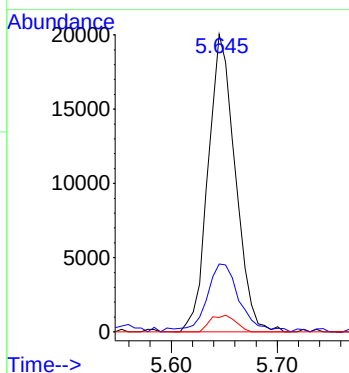
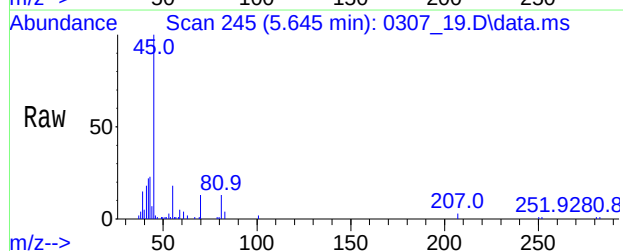
Tgt Ion: 101 Resp: 19326
Ion Ratio Lower Upper
101 100
103 70.2 52.9 79.3
66 9.0 7.3 10.9





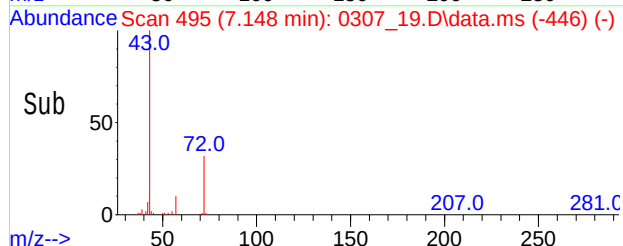
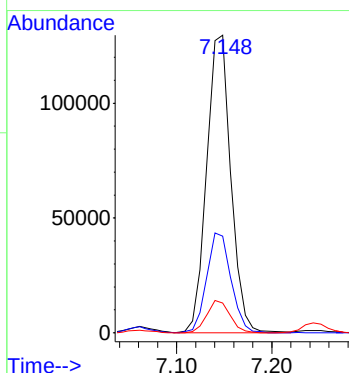
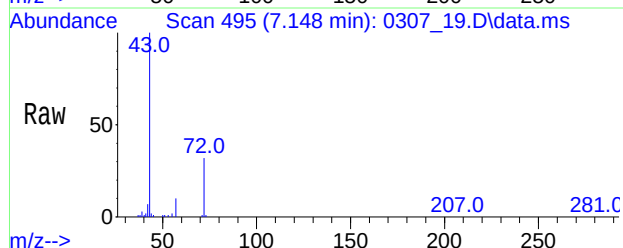
#14
Isopropylalcohol
Conc: 8\$ 1.045 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

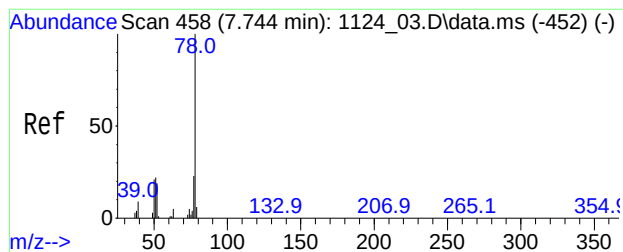
Tgt Ion: 45 Resp: 35663
Ion Ratio Lower Upper
45 100
43 27.6 15.4 23.0#
59 5.3 3.9 5.9



#26
Methyl Ethyl Ketone
Conc: 8\$ 5.594 ppbv
RT: 7.148 min Scan# 495
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

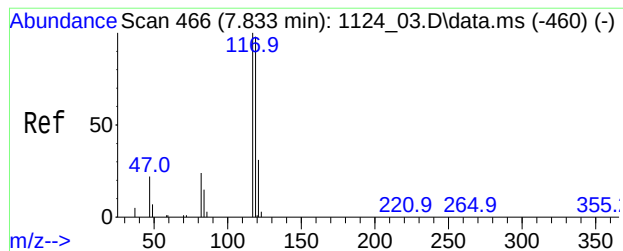
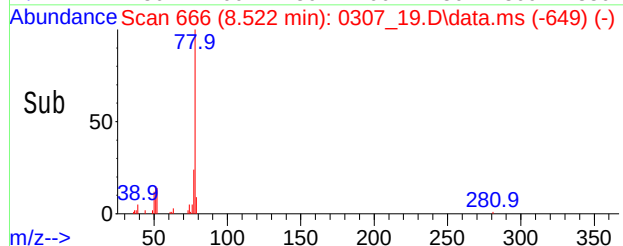
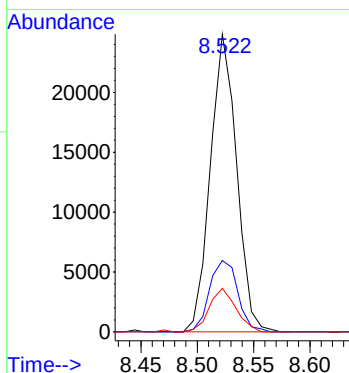
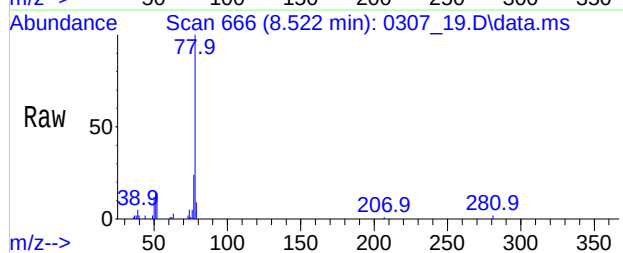
Tgt Ion: 43 Resp: 222123
Ion Ratio Lower Upper
43 100
72 34.1 27.2 40.8
57 10.5 7.8 11.8





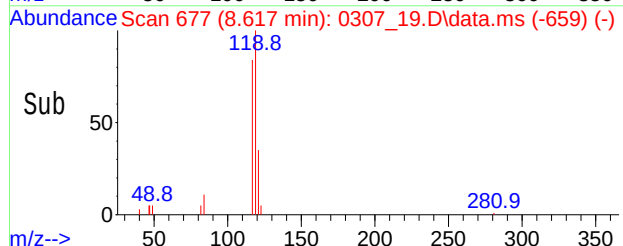
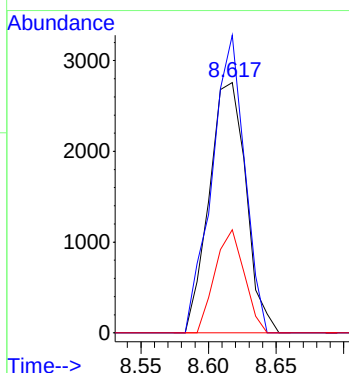
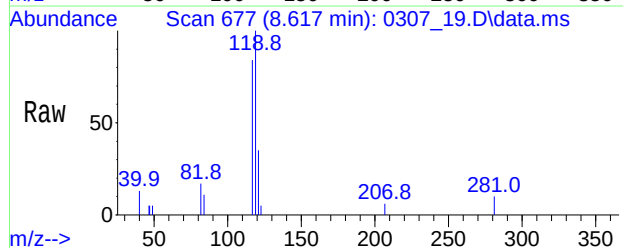
#34
Benzene
Conc: 8\$ 0.432 ppbv
RT: 8.522 min Scan# 666
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

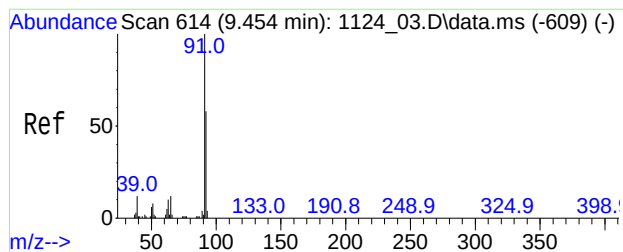
Tgt Ion: 78 Resp: 40468
Ion Ratio Lower Upper
78 100
77 25.9 18.4 27.6
51 14.9 9.7 14.5#



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.617 min Scan# 677
Delta R.T. 0.009 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

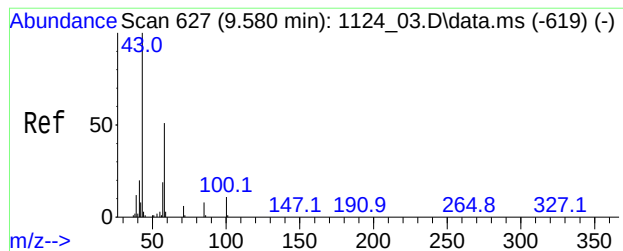
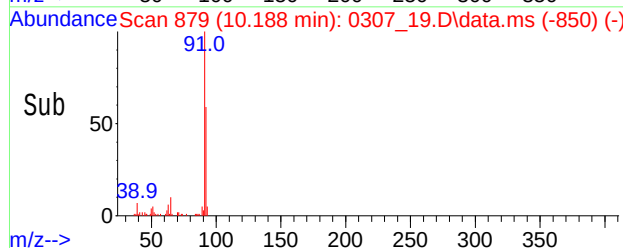
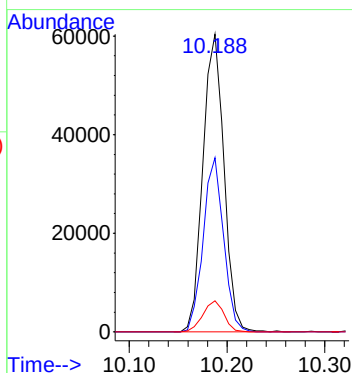
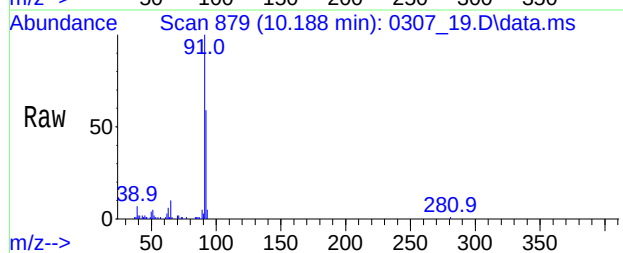
Tgt Ion: 117 Resp: 5221
Ion Ratio Lower Upper
117 100
119 105.6 77.0 117.0
121 32.8 11.5 51.5





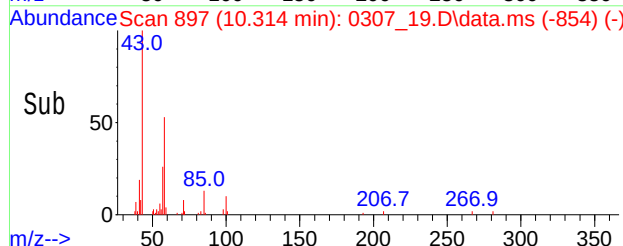
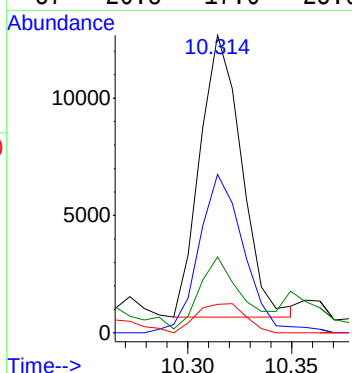
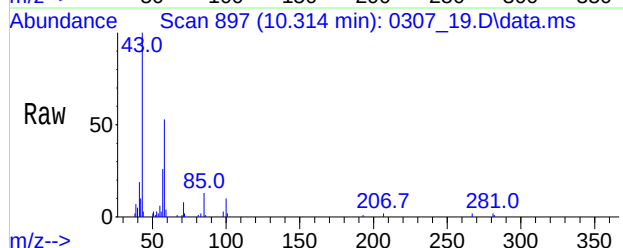
#49
Toluene
Conc: 8\$ 0.752 ppbv
RT: 10.188 min Scan# 879
Delta R.T. 0.007 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

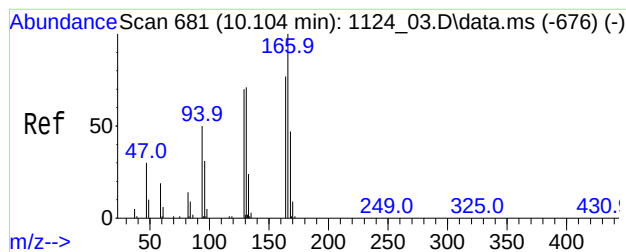
Tgt Ion: 91	Resp: 90384
Ion Ratio	Lower Upper
91 100	
92 56.7	44.6 66.8
65 10.5	7.2 10.8



#51
2-Hexanone(MBK)
Conc: 8\$ 0.370 ppbv
RT: 10.314 min Scan# 897
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

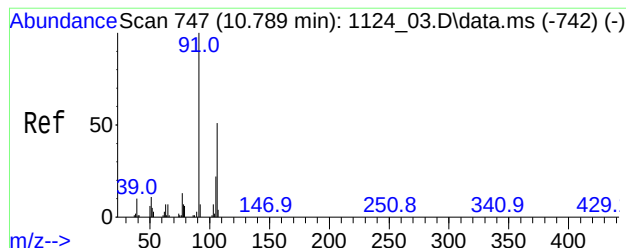
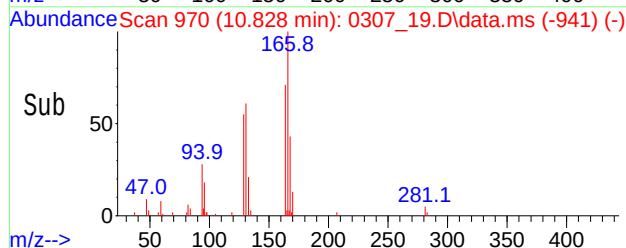
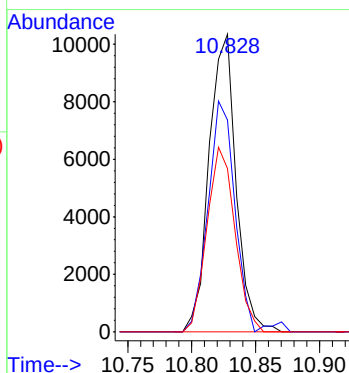
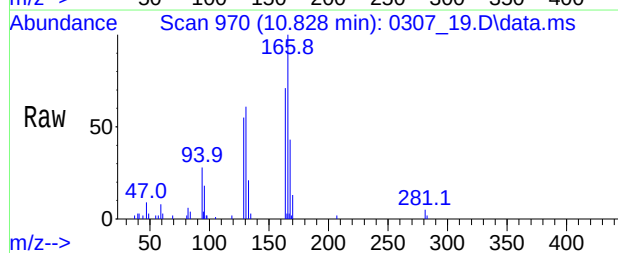
Tgt Ion: 43	Resp: 16716
Ion Ratio	Lower Upper
43 100	
58 61.1	50.3 75.5
100 12.1	9.8 14.6
57 26.8	17.0 25.6#





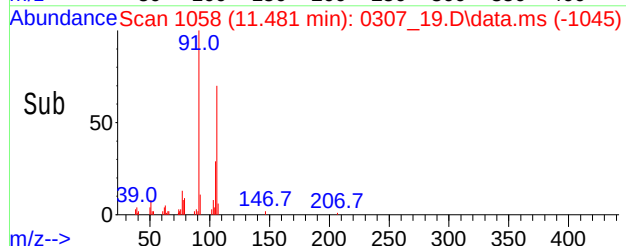
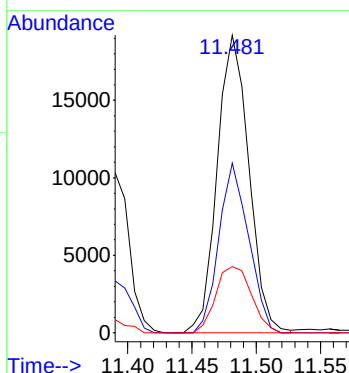
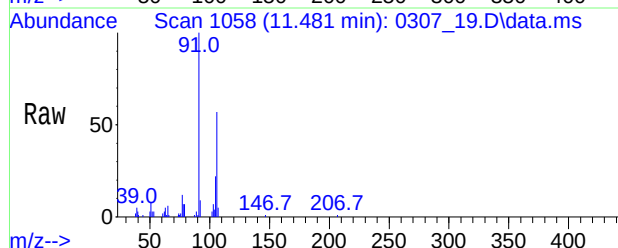
#53
Tetrachloroethene
Conc: 8\$ 0.193 ppbv
RT: 10.828 min Scan# 970
Delta R.T. 0.007 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

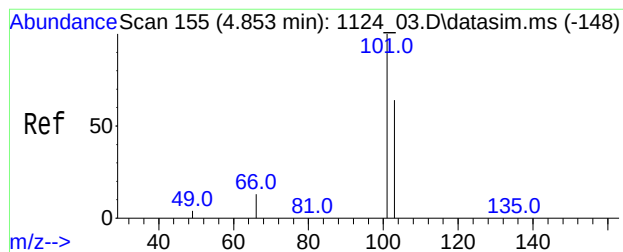
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	15144		
164	77.1	62.3	93.5	
129	64.5	54.7	82.1	



#58
m,p-Xylene
Conc: 8\$ 0.292 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

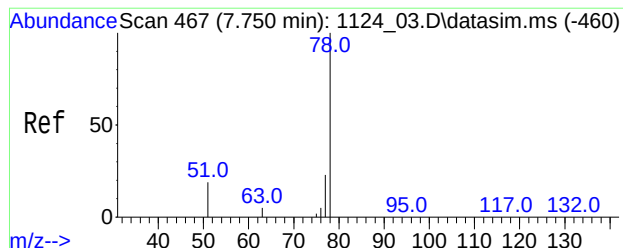
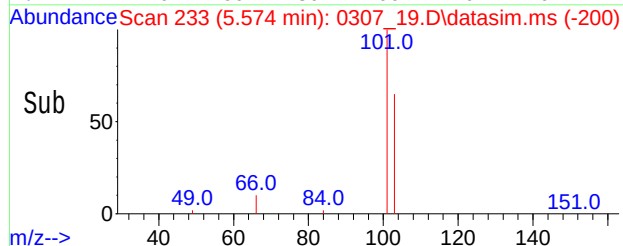
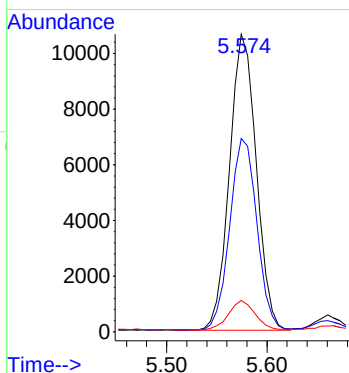
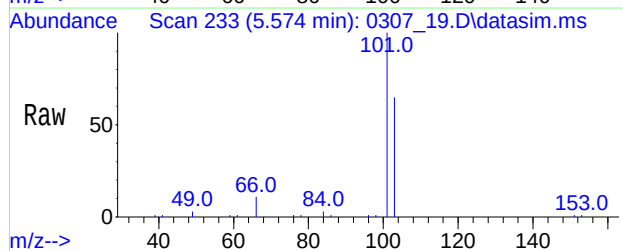
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	32972		
106	53.7	43.1	64.7	
105	25.1	20.2	30.2	





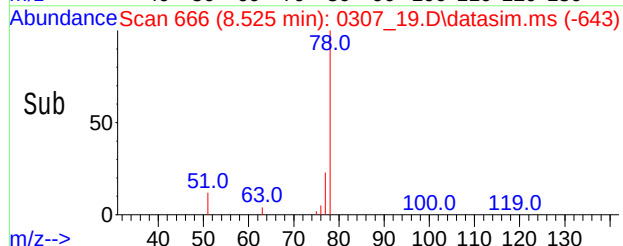
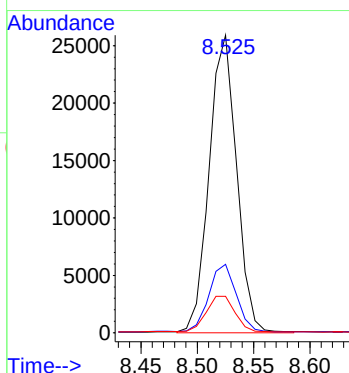
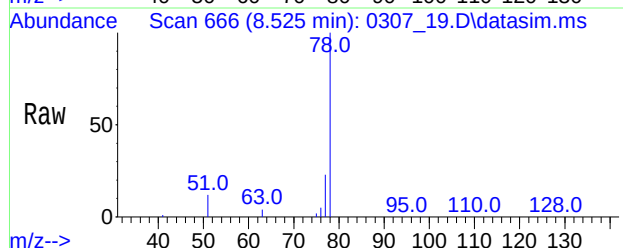
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.232 ppbv
RT: 5.574 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

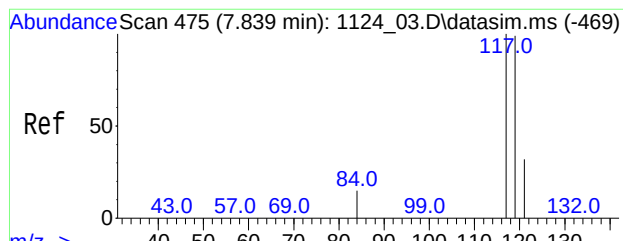
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19750		
103	65.4	52.2	78.4	
66	9.8	9.3	9.3#	



#88
Benzene(sim)
Conc: 8\$ 0.415 ppbv
RT: 8.522 min Scan# 666
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

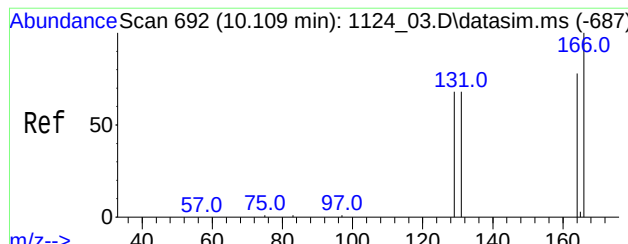
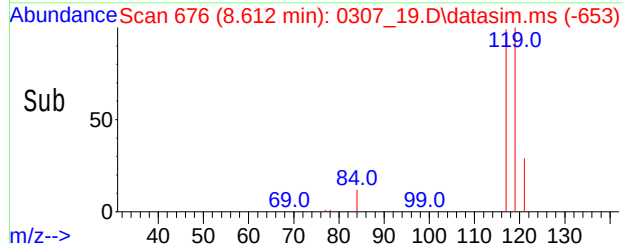
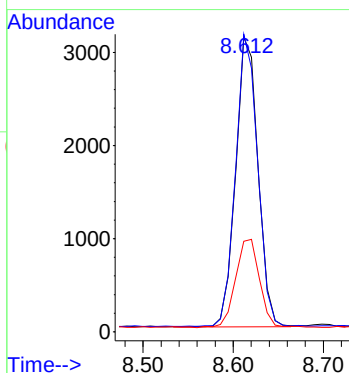
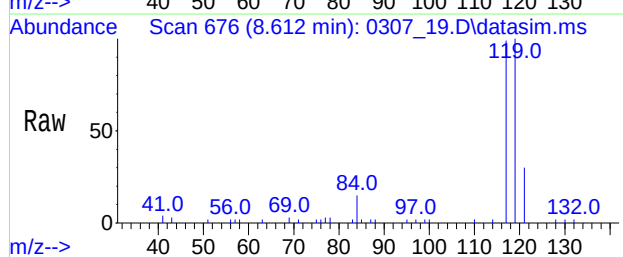
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	40468		
77	25.9	18.4	27.6	
51	14.9	9.7	14.5#	





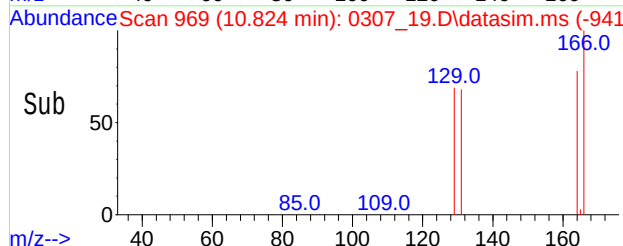
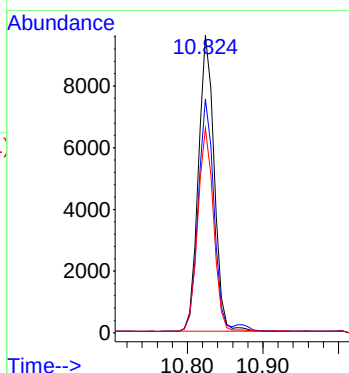
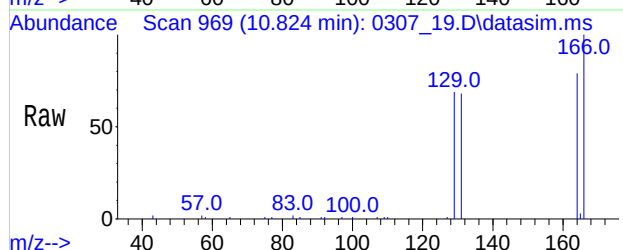
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.071 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

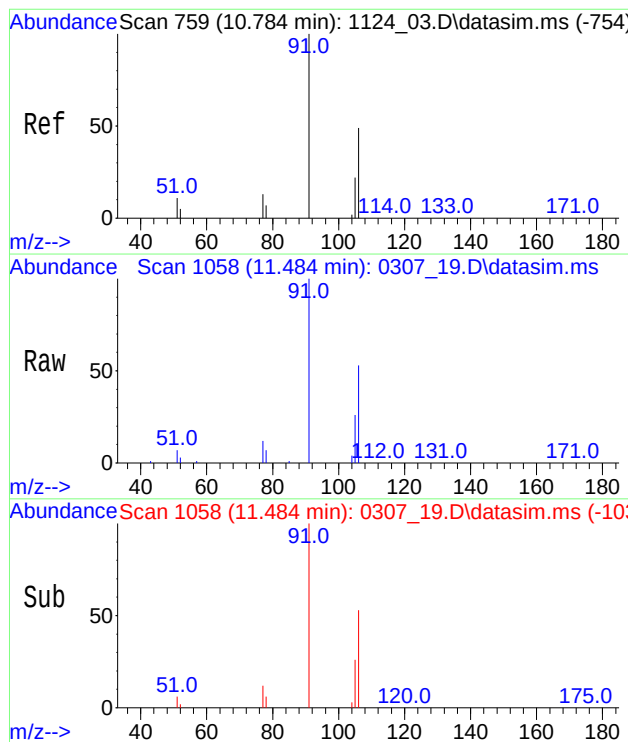
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5378		
119	99.0	77.7	116.5	
121	32.9	25.1	37.7	



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.178 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_19.D
Acq: 7 Mar 2023 10:33 pm

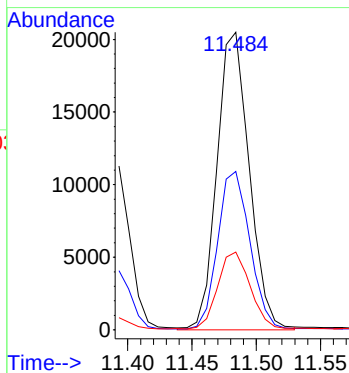
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	13953		
164	77.3	57.9	97.9	
129	68.3	50.0	90.0	





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.278 ppbv
 RT: 11.481 min Scan# 1058
 Delta R.T. 0.000 min
 Lab File: 0307_19.D
 Acq: 7 Mar 2023 10:33 pm

Tgt Ion:	91	Resp:	32972
Ion Ratio	Lower	Upper	
91	100		
106	53.7	48.5	59.3
105	25.6	20.2	30.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	VP-4
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54084</u>	
Canister:	<u>23338</u>	Lab File ID:	<u>0308_09.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>	
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	0.465		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	5.76	S	0.531	0.531	r
67-64-1	Acetone	3.30	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.252		0.178	0.178	r
67-63-0	Isopropylalcohol	0.989	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	0.473		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

Client: FPMGROUP Lab: Phoenix Env. Labs

VP-4

SDG No.: GCN54079

Lab Sample ID: CN54084

Canister: 23338

Lab File ID: 0308_09.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/08/23

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)	0.070		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)	0.070		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)	0.230	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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_09.D
 Acq On : 8 Mar 2023 3:56 pm
 Operator :
 Client ID : VP-4
 Lab ID : CN54084
 ALS Vial : 34 Sample Multiplier: 1

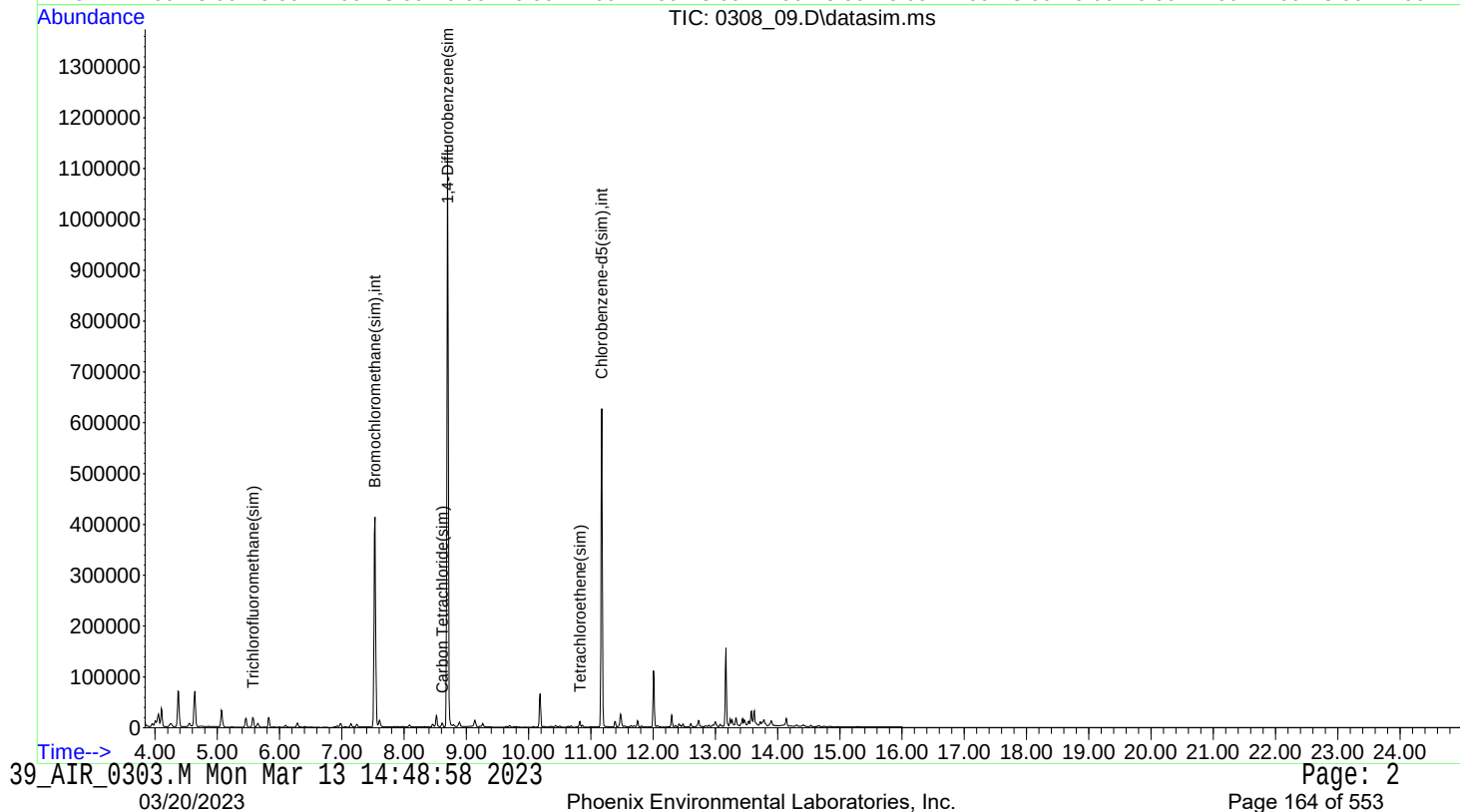
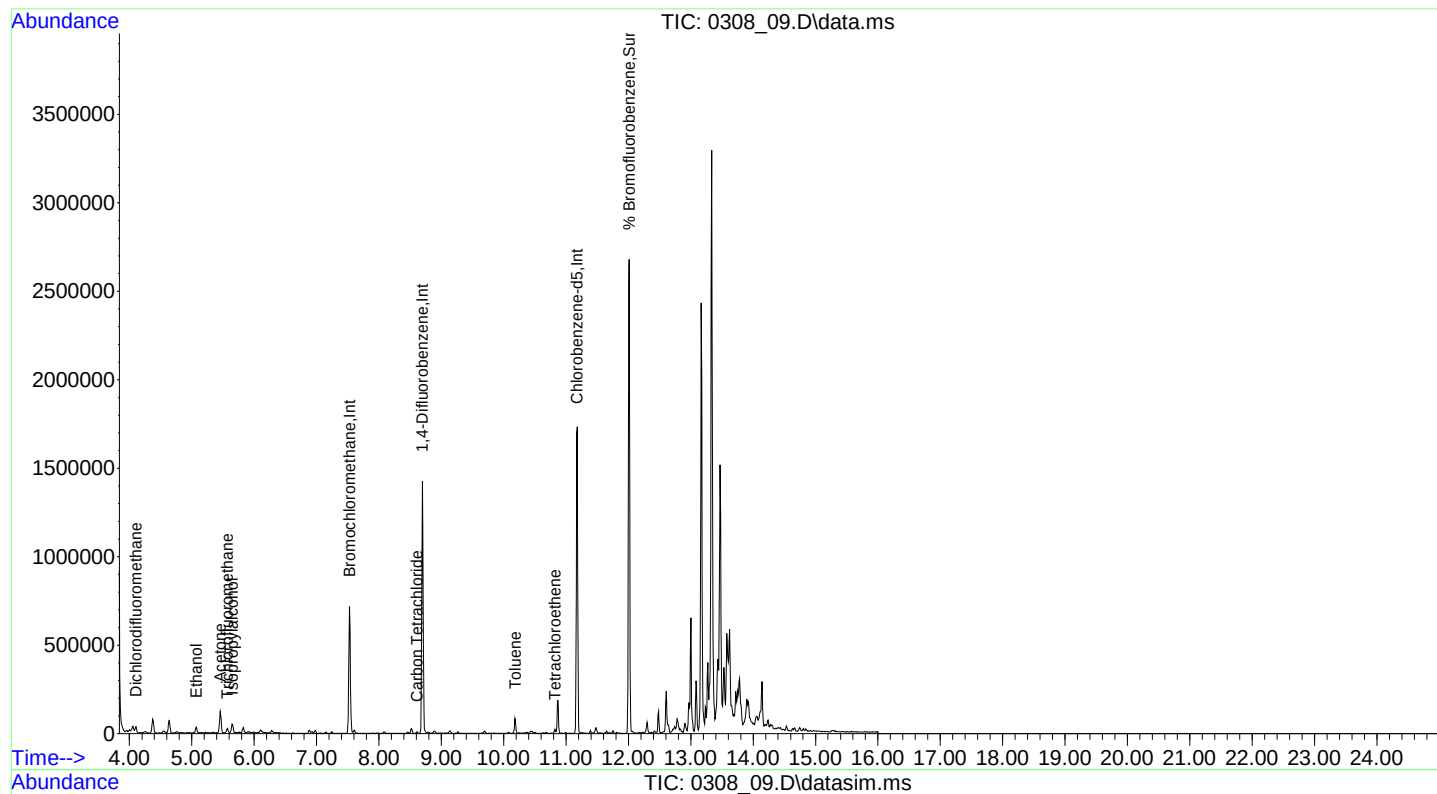
Quant Time: Mar 09 09:27:46 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

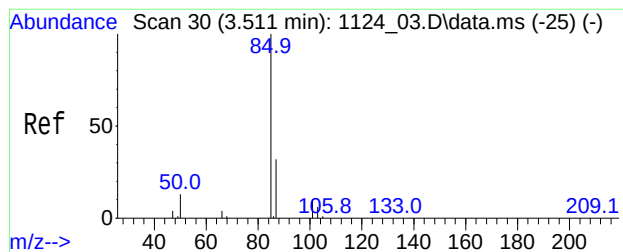
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	312968	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1121458	10.000	ng	0.00
54) Chlorobenzene-d5	11.170	82	468945	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	298214	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1121458	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.170	82	468945	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	712969	10.278	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	= 102.80%		
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.106	85	34358	0.465	ppbv#	99
11) Ethanol	5.071	45	31863	5.761	ppbv	97
12) Acetone	5.455	43	93755	3.304	ppbv#	86
13) Trichlorofluoromethane	5.565	101	19800	0.252	ppbv#	97
14) Isopropylalcohol	5.645	45	32880	0.989	ppbv	99
35) Carbon Tetrachloride	8.609	117	5545	0.077	ppbv	94
49) Toluene	10.181	91	54998	0.473	ppbv#	97
53) Tetrachloroethene	10.821	166	6285	0.083	ppbv	93
85] Trichlorofluoromethane...	5.568	101	19540	0.234	ppbv#	100
89) Carbon Tetrachloride(sim)	8.612	117	5253	0.070	ppbv	99
105] Tetrachloroethene(sim)	10.824	166	5334	0.070	ppbv	98

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_09.D
Acq On : 8 Mar 2023 3:56 pm
Operator :
Client ID : VP-4
Lab ID : CN54084
ALS Vial : 34 Sample Multiplier: 1

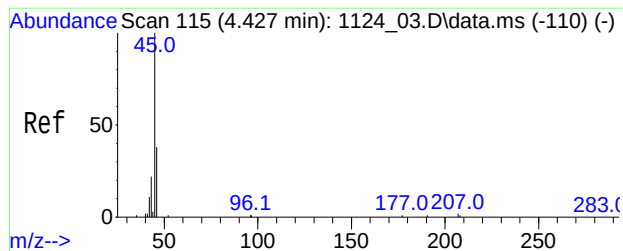
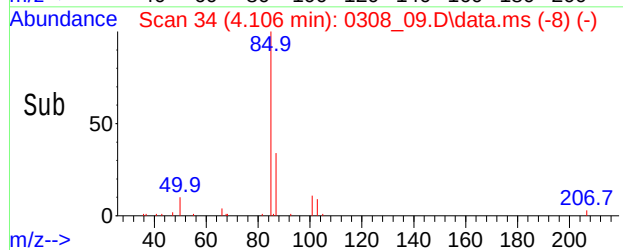
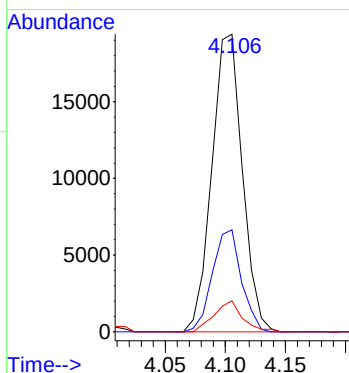
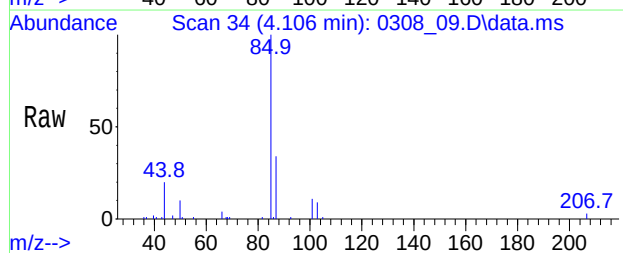
Quant Time: Mar 09 09:27:46 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





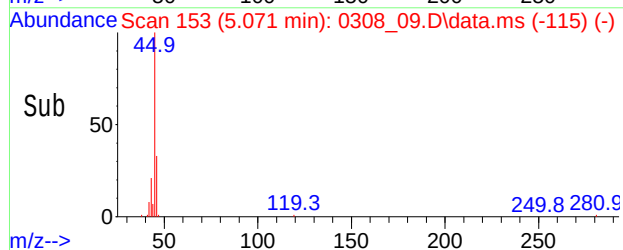
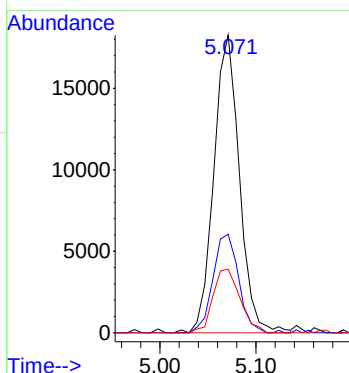
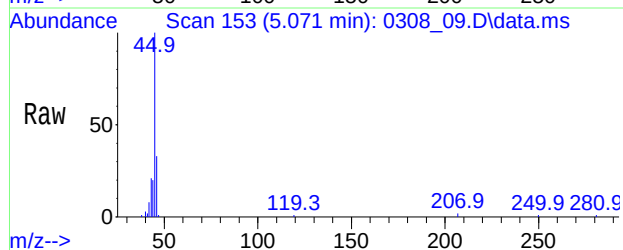
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.465 ppbv
 RT: 4.106 min Scan# 34
 Delta R.T. 0.008 min
 Lab File: 0308_09.D
 Acq: 8 Mar 2023 3:56 pm

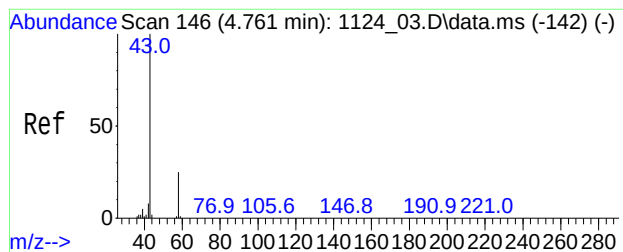
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.2	39.4
50	9.7	6.2	9.2#



#11
 Ethanol
 Conc: 8\$ 5.761 ppbv
 RT: 5.071 min Scan# 153
 Delta R.T. 0.008 min
 Lab File: 0308_09.D
 Acq: 8 Mar 2023 3:56 pm

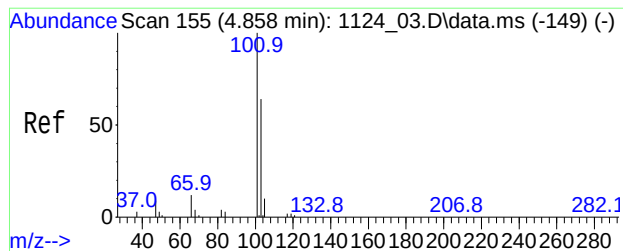
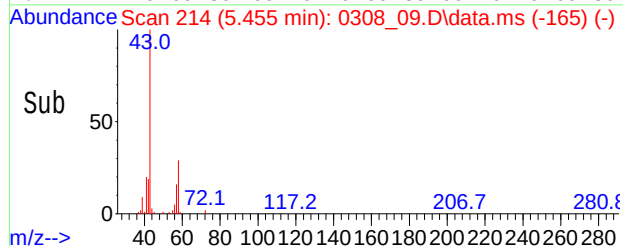
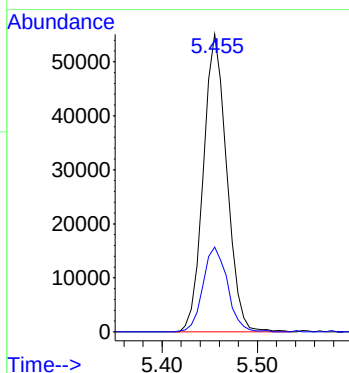
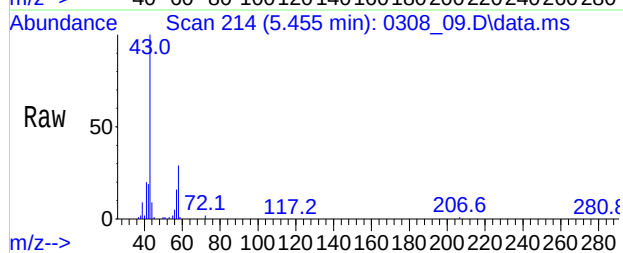
Tgt Ion	Ratio	Lower	Upper
45	100		
46	34.5	27.0	40.4
43	23.5	17.0	25.4





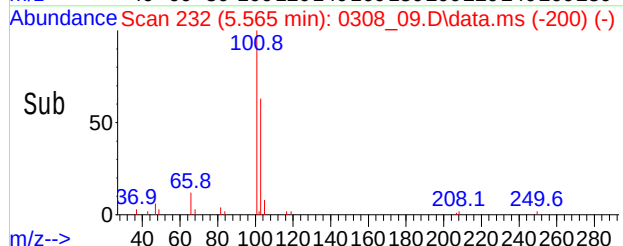
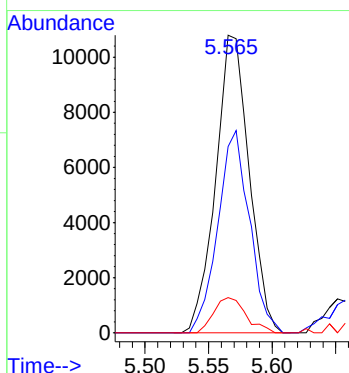
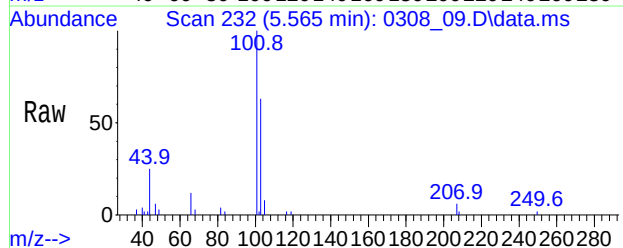
#12
Acetone
Conc: 8\$ 3.304 ppbv
RT: 5.455 min Scan# 214
Delta R.T. 0.000 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

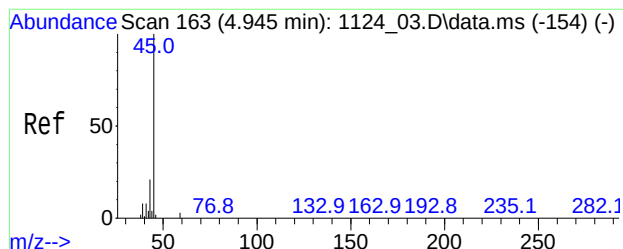
Tgt Ion: 43 Resp: 93755
Ion Ratio Lower Upper
43 100
58 29.9 30.8 46.2#



#13
Trichlorofluoromethane
Conc: 8\$ 0.252 ppbv
RT: 5.565 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

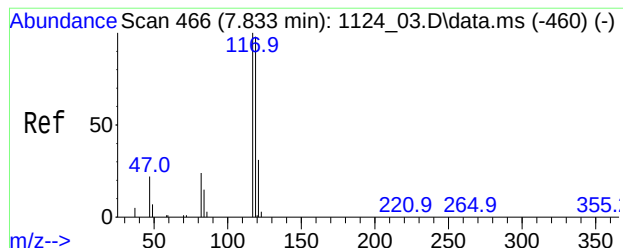
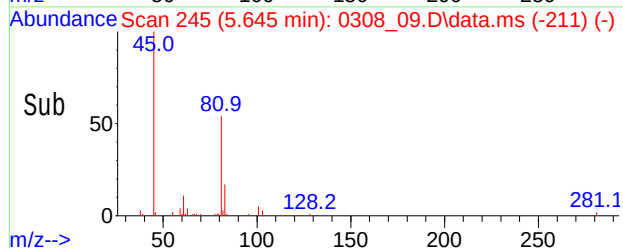
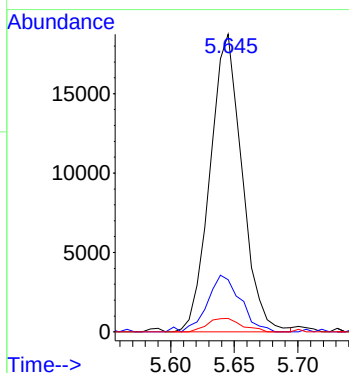
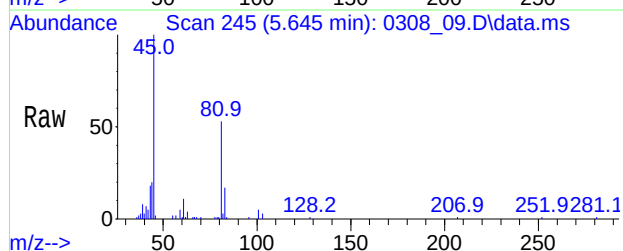
Tgt Ion: 101 Resp: 19800
Ion Ratio Lower Upper
101 100
103 64.2 52.9 79.3
66 11.4 7.3 10.9#





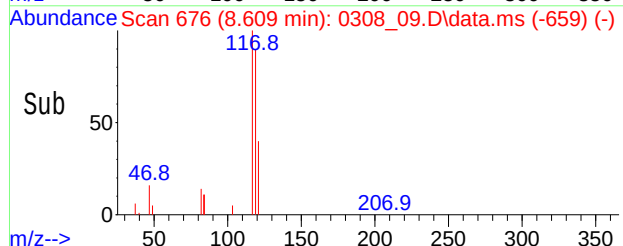
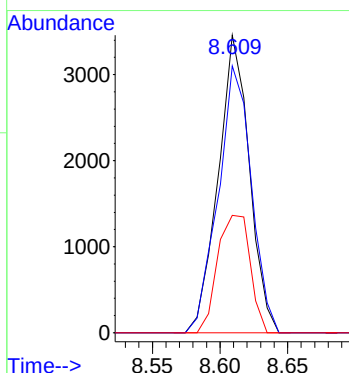
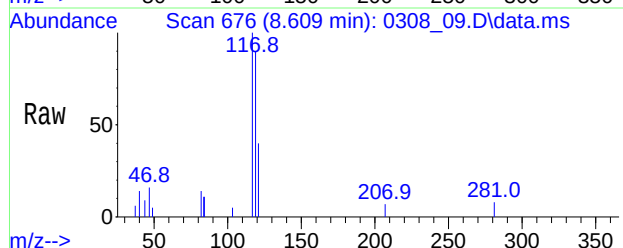
#14
Isopropylalcohol
Conc: 8\$ 0.989 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.006 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

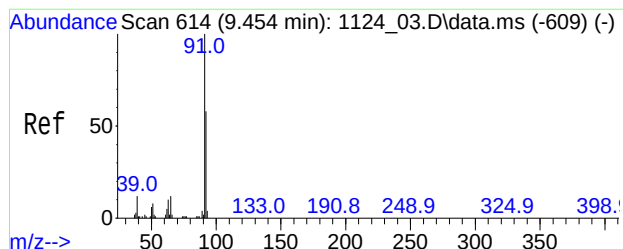
Tgt Ion:	45	Resp:	32880
Ion Ratio	Lower	Upper	
45	100		
43	19.8	15.4	23.0
59	4.9	3.9	5.9



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

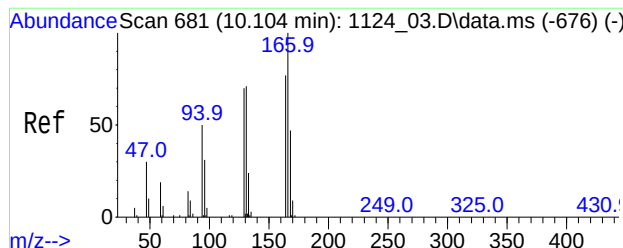
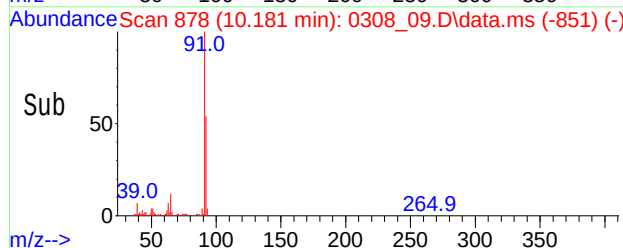
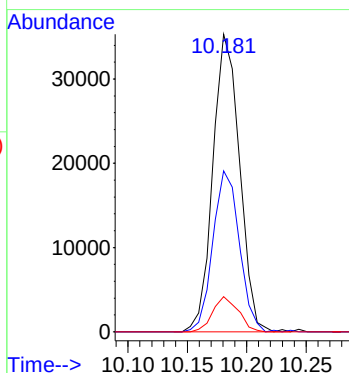
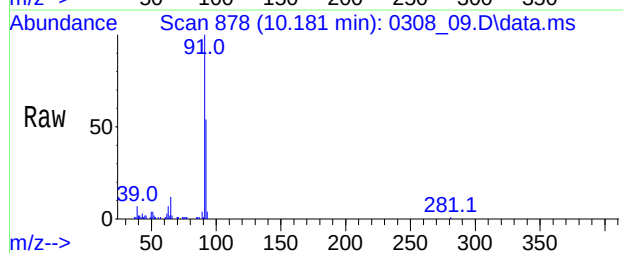
Tgt Ion:	117	Resp:	5545
Ion Ratio	Lower	Upper	
117	100		
119	95.3	77.0	117.0
121	41.1	11.5	51.5





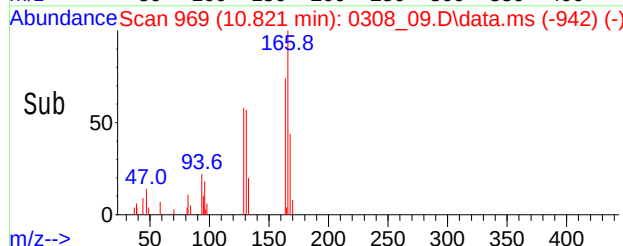
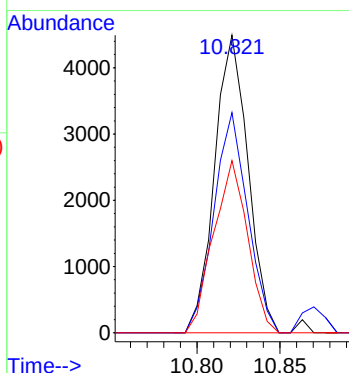
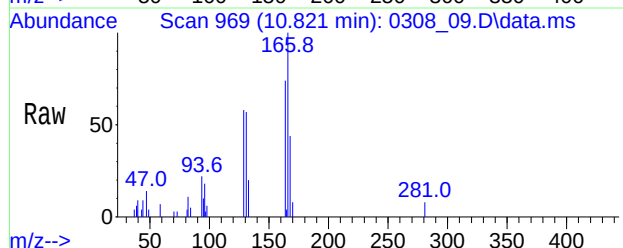
#49
Toluene
Conc: 8\$ 0.473 ppbv
RT: 10.181 min Scan# 878
Delta R.T. -0.007 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

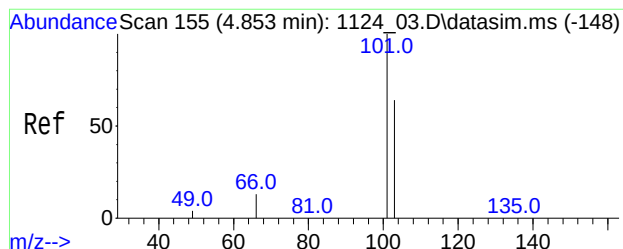
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	54998		
92	53.8		44.6	66.8
65	11.4		7.2	10.8#



#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

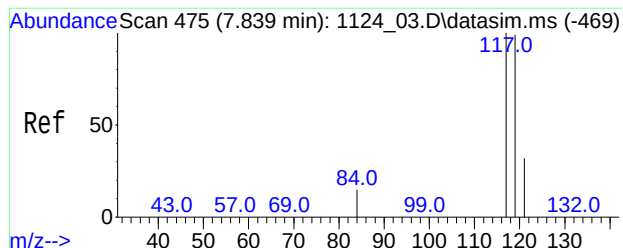
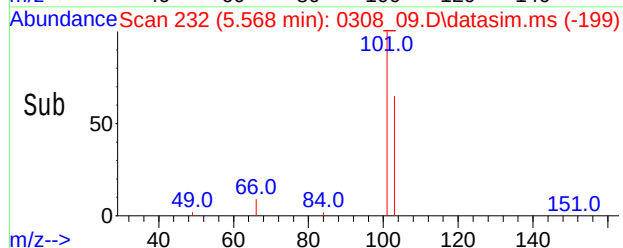
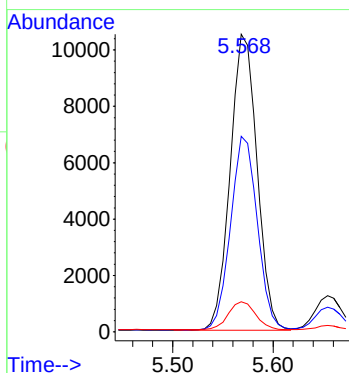
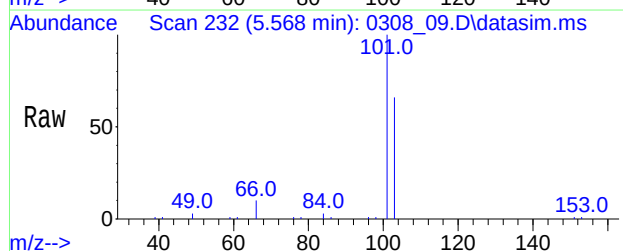
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	6285		
164	74.9		62.3	93.5
129	58.9		54.7	82.1





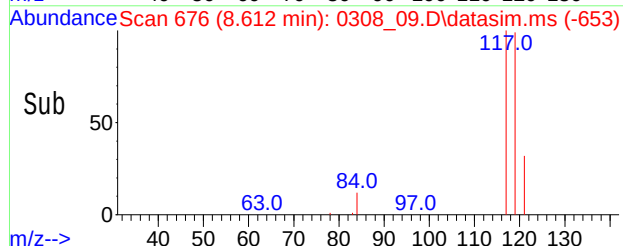
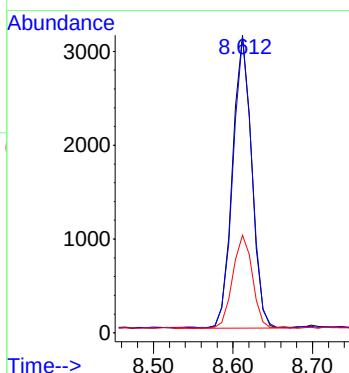
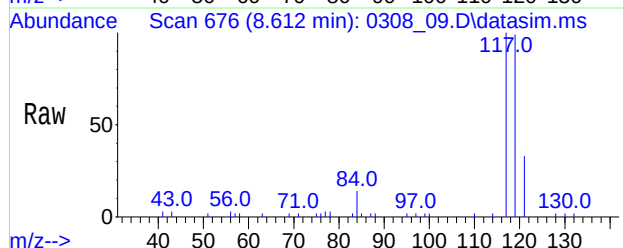
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.234 ppbv
RT: 5.568 min Scan# 232
Delta R.T. 0.000 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

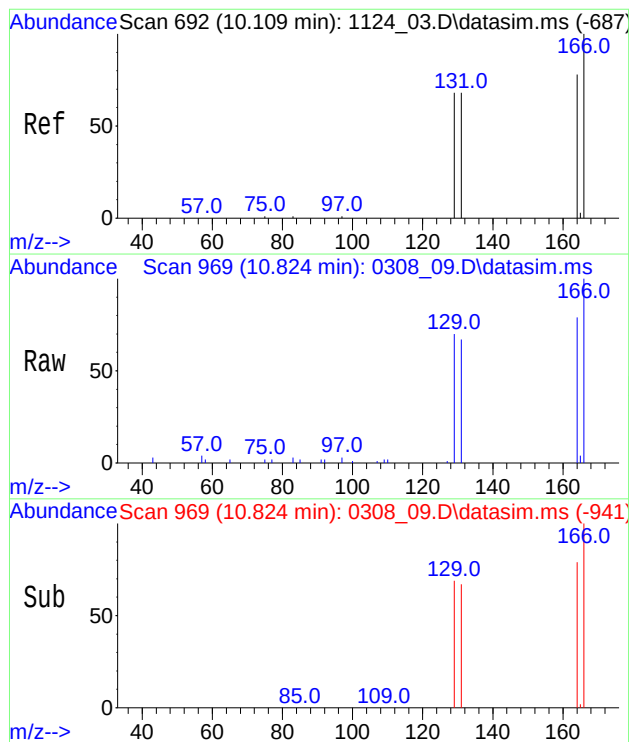
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19540		
103	65.2	52.2	78.4	
66	9.9	9.3	9.3#	



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.070 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_09.D
Acq: 8 Mar 2023 3:56 pm

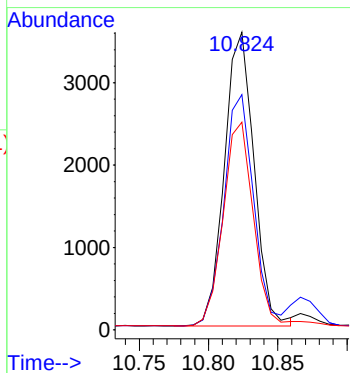
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5253		
119	97.9	77.7	116.5	
121	32.6	25.1	37.7	





#105
 Tetrachloroethene(sim)
 Conc: 8\$ 0.070 ppbv
 RT: 10.824 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: 0308_09.D
 Acq: 8 Mar 2023 3:56 pm

Tgt Ion:	166	Resp:	5334
Ion Ratio	Lower	Upper	
166	100		
164	79.1	57.9	97.9
129	71.4	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54085</u>
Canister:	<u>23343</u>	Lab File ID:	<u>0308_10.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	0.489		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	5.27	S	0.531	0.531	r
67-64-1	Acetone	1.40	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.241		0.178	0.178	r
67-63-0	Isopropylalcohol	0.829	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
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	0.266	U	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
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	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

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54085

Canister: 23343 Lab File ID: 0308_10.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

Matrix: AIR Dilution Factor: 1

VP-5

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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)	0.069		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)	0.194		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_10.D
 Acq On : 8 Mar 2023 4:36 pm
 Operator :
 Client ID : VP-5
 Lab ID : CN54085
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 09 09:28:03 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

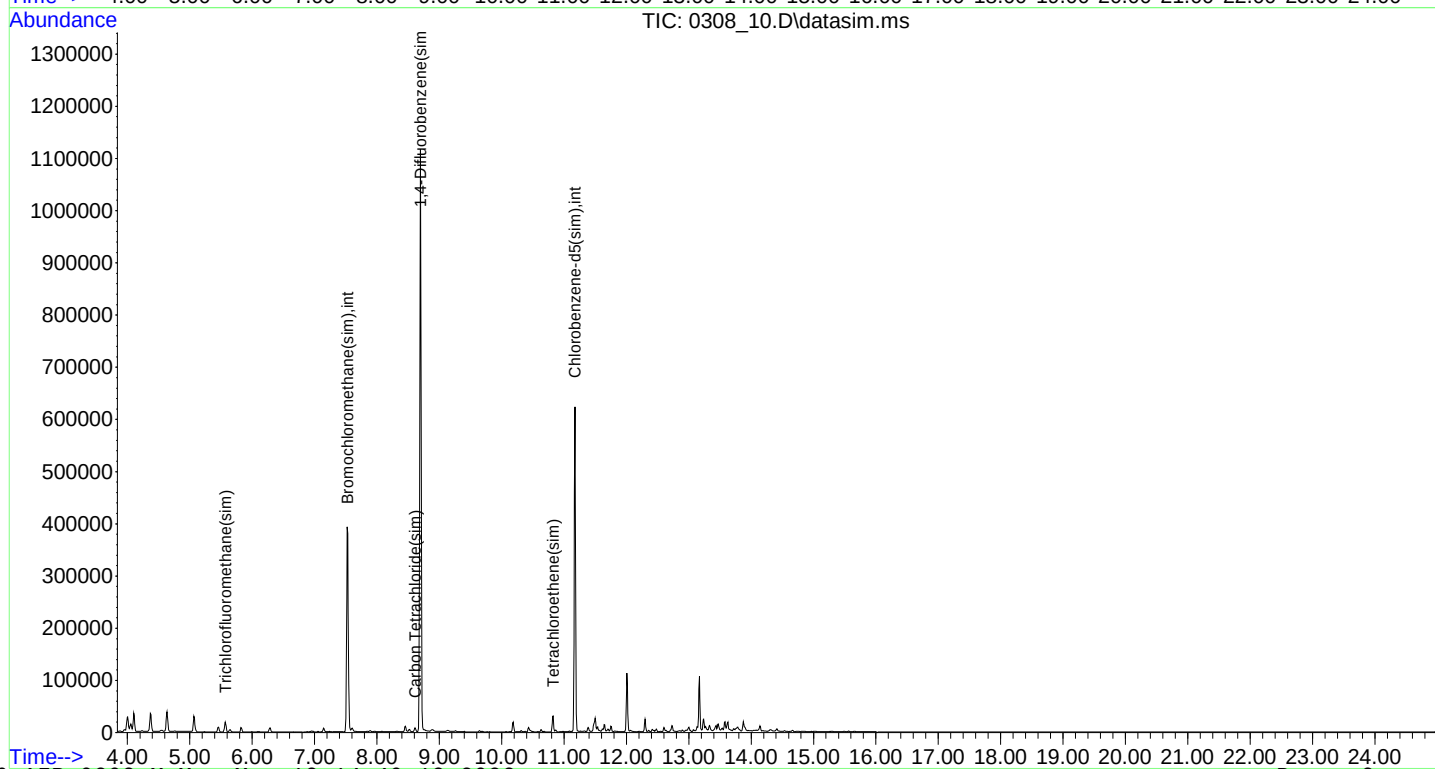
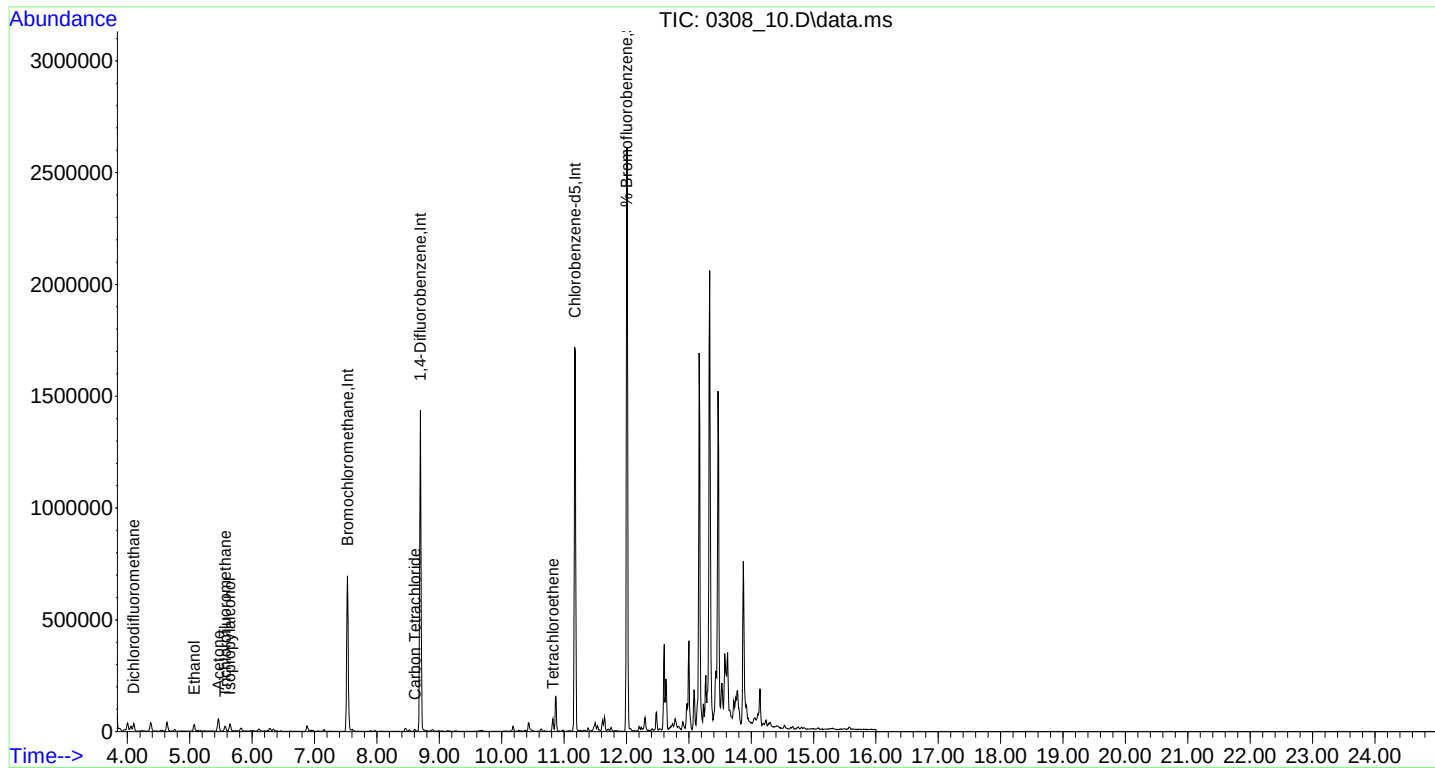
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

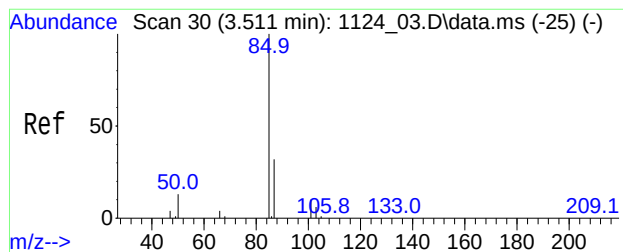
Internal Standards						
1) Bromochloromethane	7.529	130	307180	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1121615	10.000	ng	0.00
54) Chlorobenzene-d5	11.170	82	465004	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	295552	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1121615	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.170	82	465004	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.004	95	717086	10.425	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.30%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.097	85	35448	0.489	ppbv	99
11) Ethanol	5.071	45	28593	5.267	ppbv	94
12) Acetone	5.461	43	39044	1.402	ppbv#	85
13) Trichlorofluoromethane	5.565	101	18534	0.241	ppbv	97
14) Isopropylalcohol	5.639	45	27039	0.829	ppbv	95
35) Carbon Tetrachloride	8.609	117	5397	0.076	ppbv	98
53) Tetrachloroethene	10.821	166	15866	0.209	ppbv	99
85) Trichlorofluoromethane...	5.568	101	19158	0.231	ppbv#	99
89) Carbon Tetrachloride(sim)	8.612	117	5141	0.069	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	14770	0.194	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_10.D
Acq On : 8 Mar 2023 4:36 pm
Operator :
Client ID : VP-5
Lab ID : CN54085
ALS Vial : 35 Sample Multiplier: 1

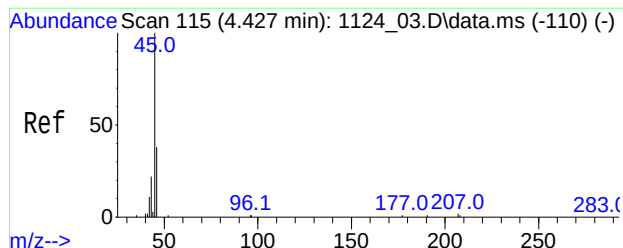
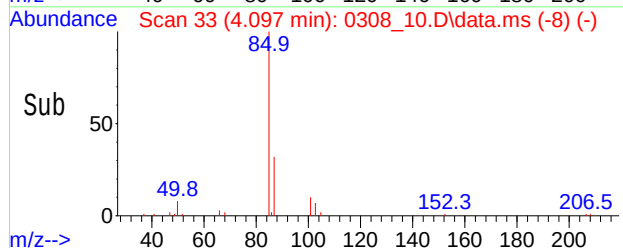
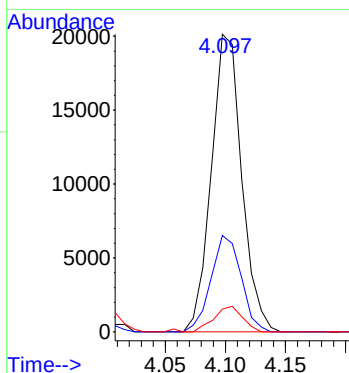
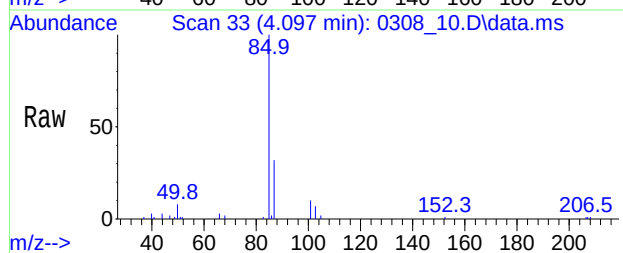
Quant Time: Mar 09 09:28:03 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





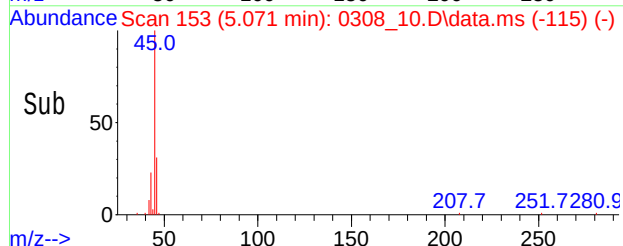
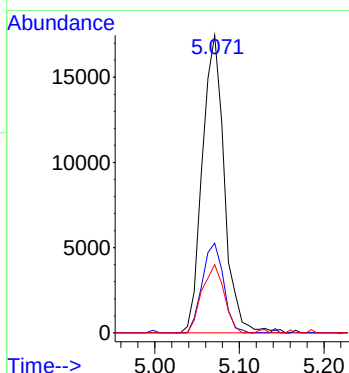
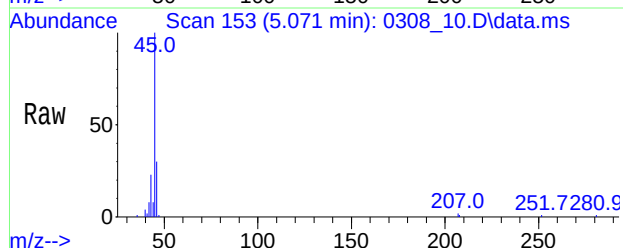
#3
Dichlorodifluoromethane
Conc: 8\$ 0.489 ppbv
RT: 4.097 min Scan# 33
Delta R.T. 0.000 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

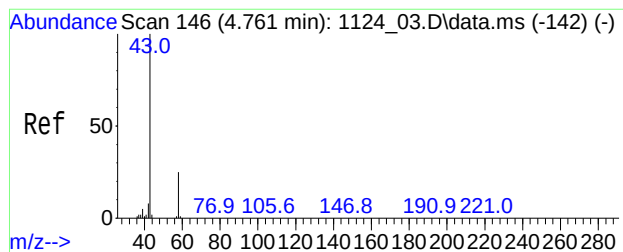
Tgt Ion: 85 Resp: 35448
Ion Ratio Lower Upper
85 100
87 32.1 26.2 39.4
50 8.1 6.2 9.2



#11
Ethanol
Conc: 8\$ 5.267 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.008 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

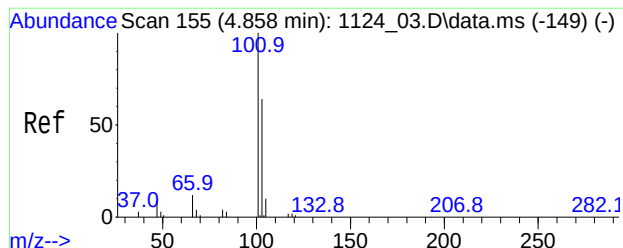
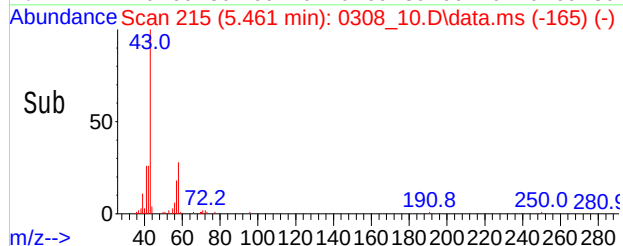
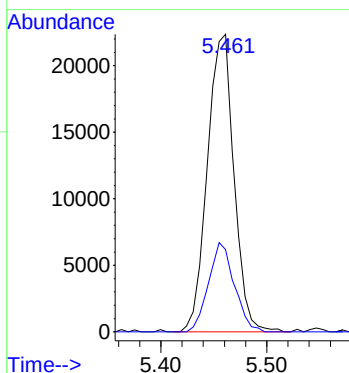
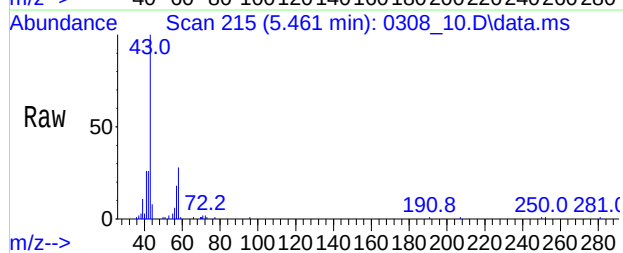
Tgt Ion: 45 Resp: 28593
Ion Ratio Lower Upper
45 100
46 31.6 27.0 40.4
43 25.3 17.0 25.4





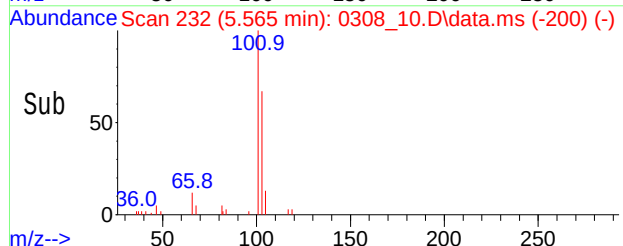
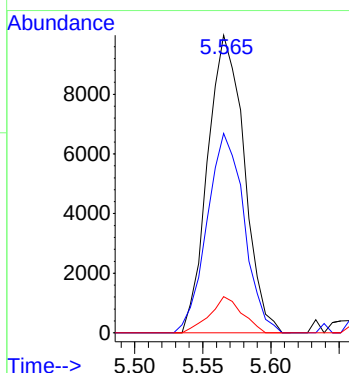
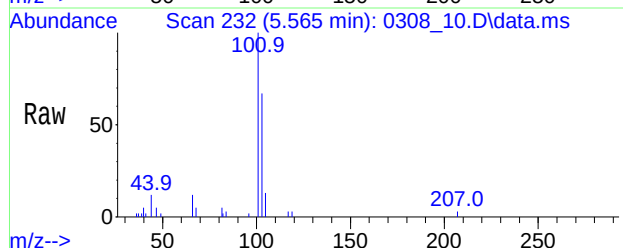
#12
Acetone
Conc: 8\$ 1.402 ppbv
RT: 5.461 min Scan# 215
Delta R.T. 0.006 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

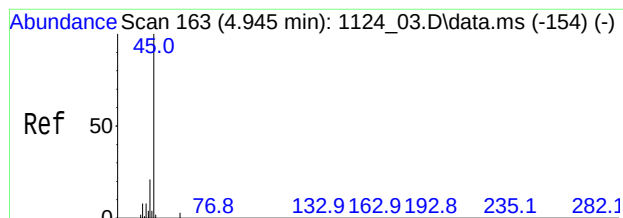
Tgt Ion: 43 Resp: 39044
Ion Ratio Lower Upper
43 100
58 29.1 30.8 46.2#



#13
Trichlorofluoromethane
Conc: 8\$ 0.241 ppbv
RT: 5.565 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

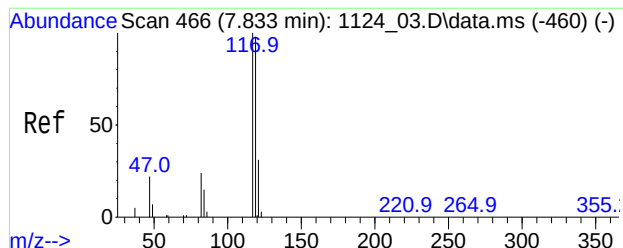
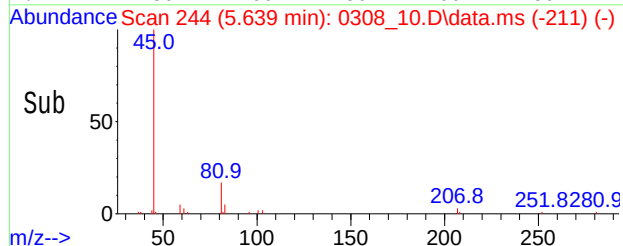
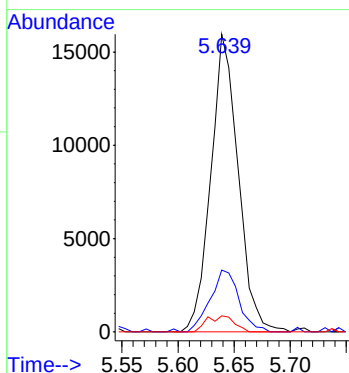
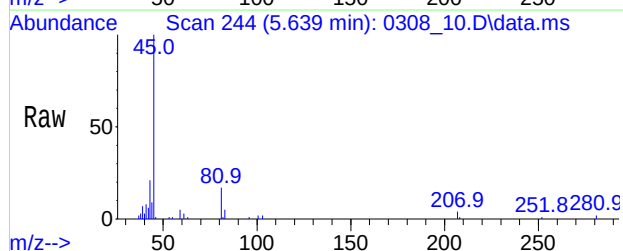
Tgt Ion: 101 Resp: 18534
Ion Ratio Lower Upper
101 100
103 68.2 52.9 79.3
66 10.8 7.3 10.9





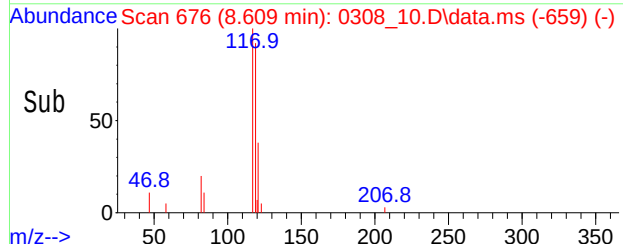
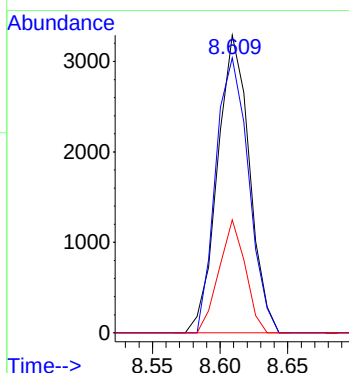
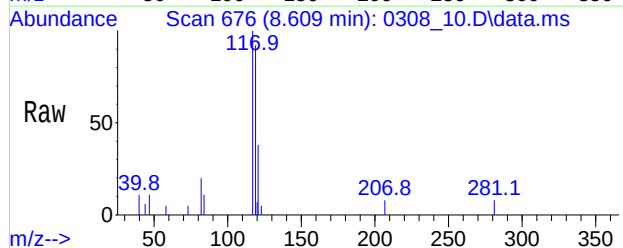
#14
Isopropylalcohol
Conc: 8\$ 0.829 ppbv
RT: 5.639 min Scan# 244
Delta R.T. 0.000 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

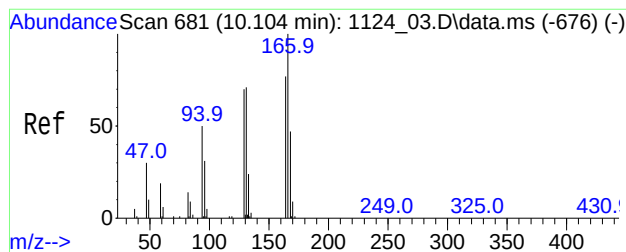
Tgt Ion:	45	Resp:	27039
Ion Ratio	Lower	Upper	
45	100		
43	21.8	15.4	23.0
59	5.4	3.9	5.9



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

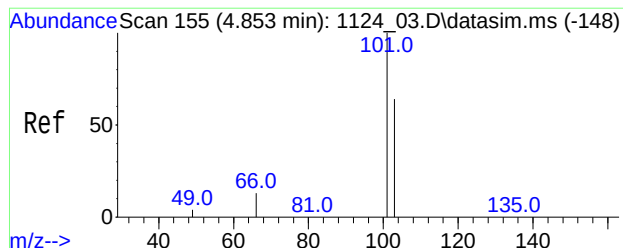
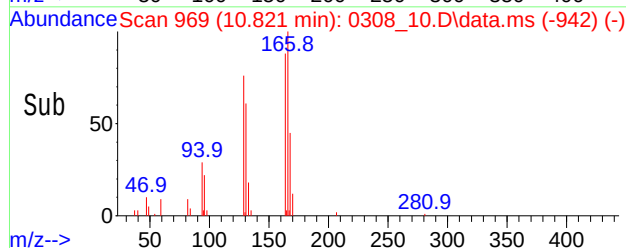
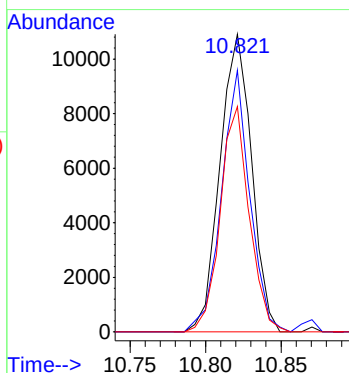
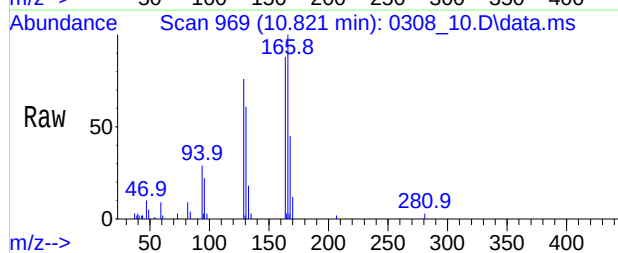
Tgt Ion:	117	Resp:	5397
Ion Ratio	Lower	Upper	
117	100		
119	95.0	77.0	117.0
121	31.3	11.5	51.5





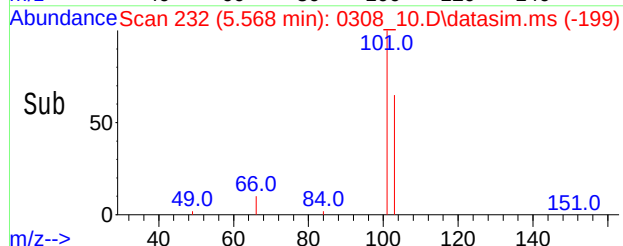
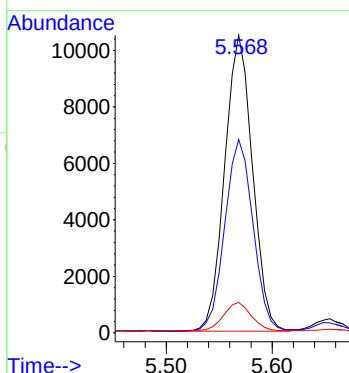
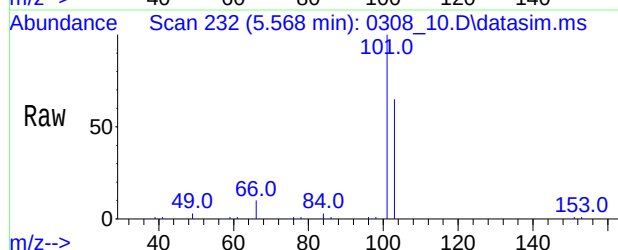
#53
Tetrachloroethene
Conc: 8\$ 0.209 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

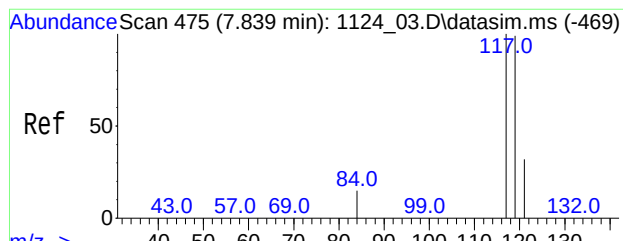
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.8	62.3	93.5
129	69.6	54.7	82.1



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.231 ppbv
RT: 5.568 min Scan# 232
Delta R.T. 0.000 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

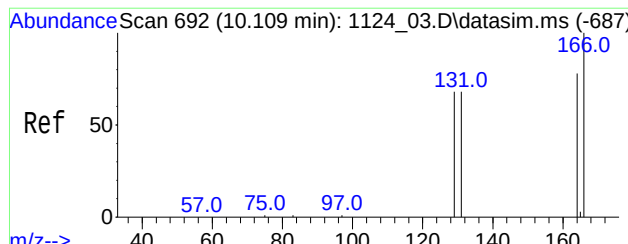
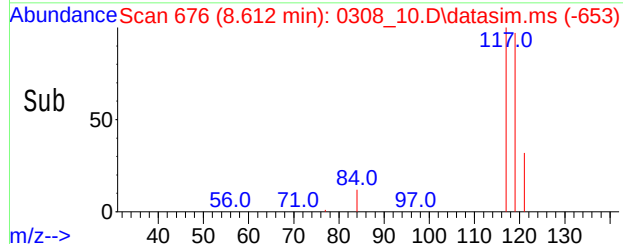
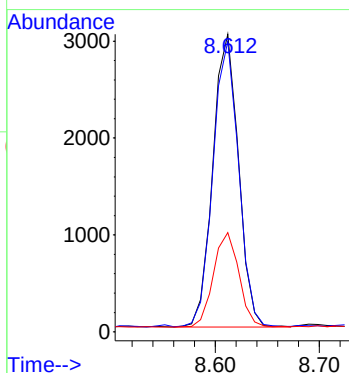
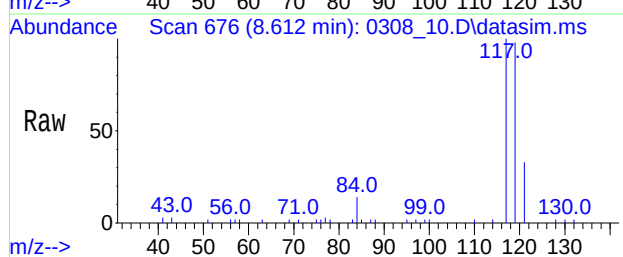
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.8	52.2	78.4
66	9.5	9.3	9.3#





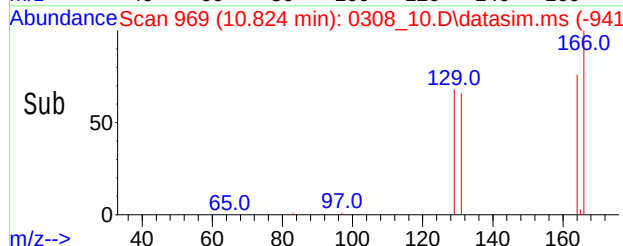
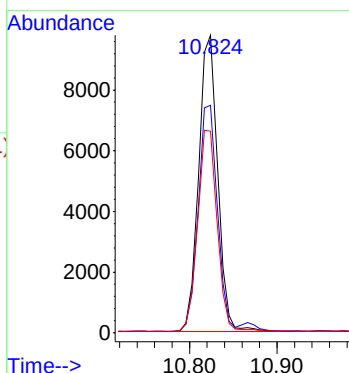
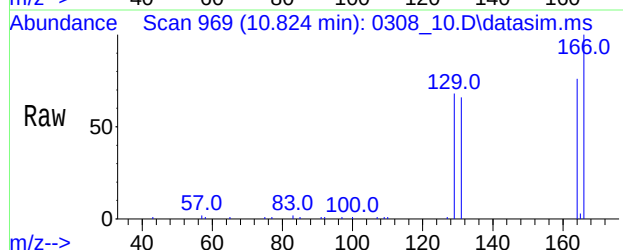
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.069 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5141		
119	97.4	77.7	116.5	
121	32.2	25.1	37.7	



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.194 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0308_10.D
Acq: 8 Mar 2023 4:36 pm

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	14770		
164	77.1	57.9	97.9	
129	69.2	50.0	90.0	



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54086

Canister: 19931 Lab File ID: 0307_20.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/07/23

Matrix: AIR Dilution Factor: 1

IA-11

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	0.474		0.202	0.202	r
74-87-3	Chloromethane	0.513		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	233	ES	0.531	0.531	r
67-64-1	Acetone	37.3	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.241		0.178	0.178	r
67-63-0	Isopropylalcohol	5.70	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	0.451		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	0.587		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	0.929		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-11

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54086

Canister: 19931 Lab File ID: 0307_20.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/07/23

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)	0.072		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)	0.083		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_20.D
 Acq On : 7 Mar 2023 11:12 pm
 Operator :
 Client ID : IA-11
 Lab ID : CN54086
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 08 11:44:00 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

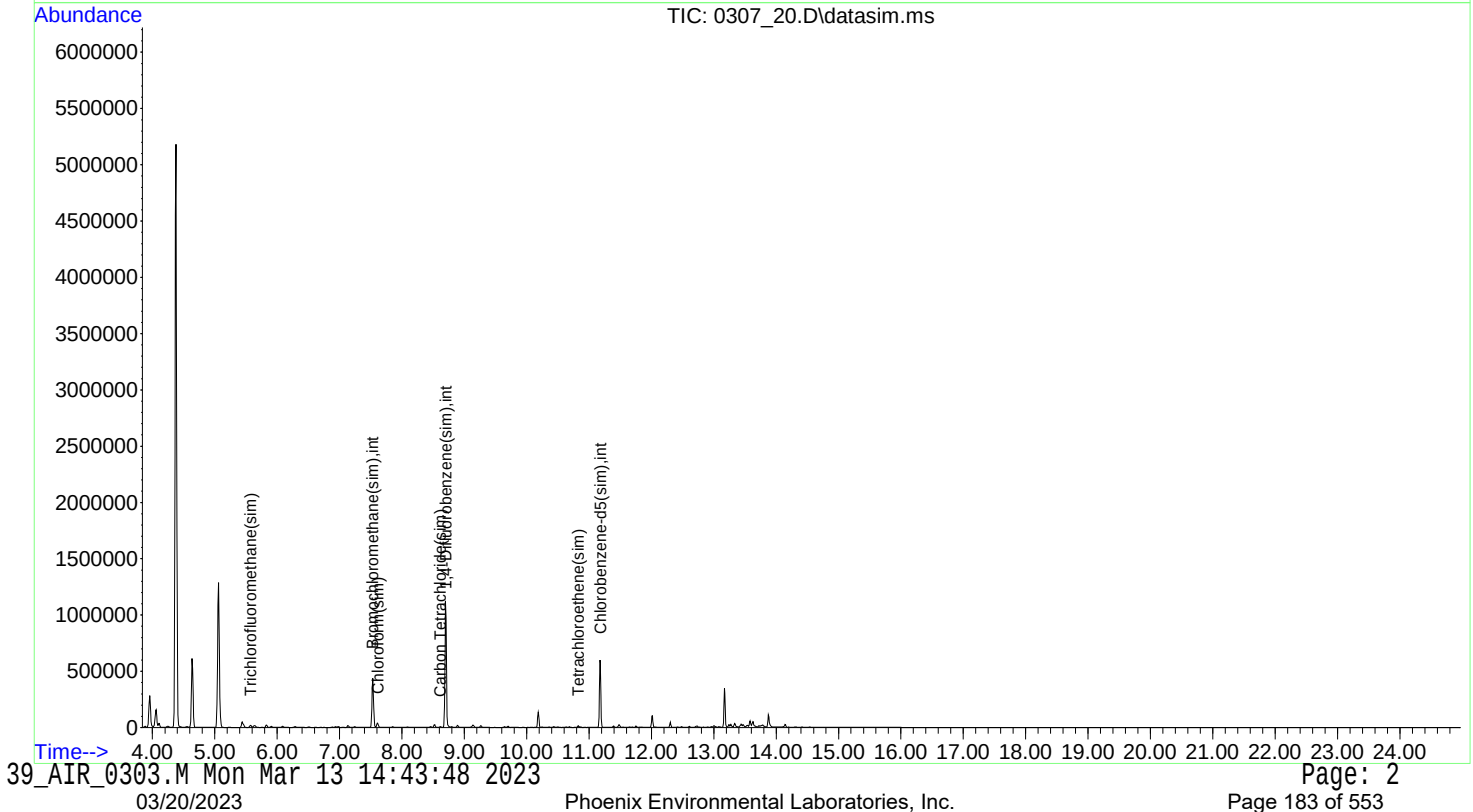
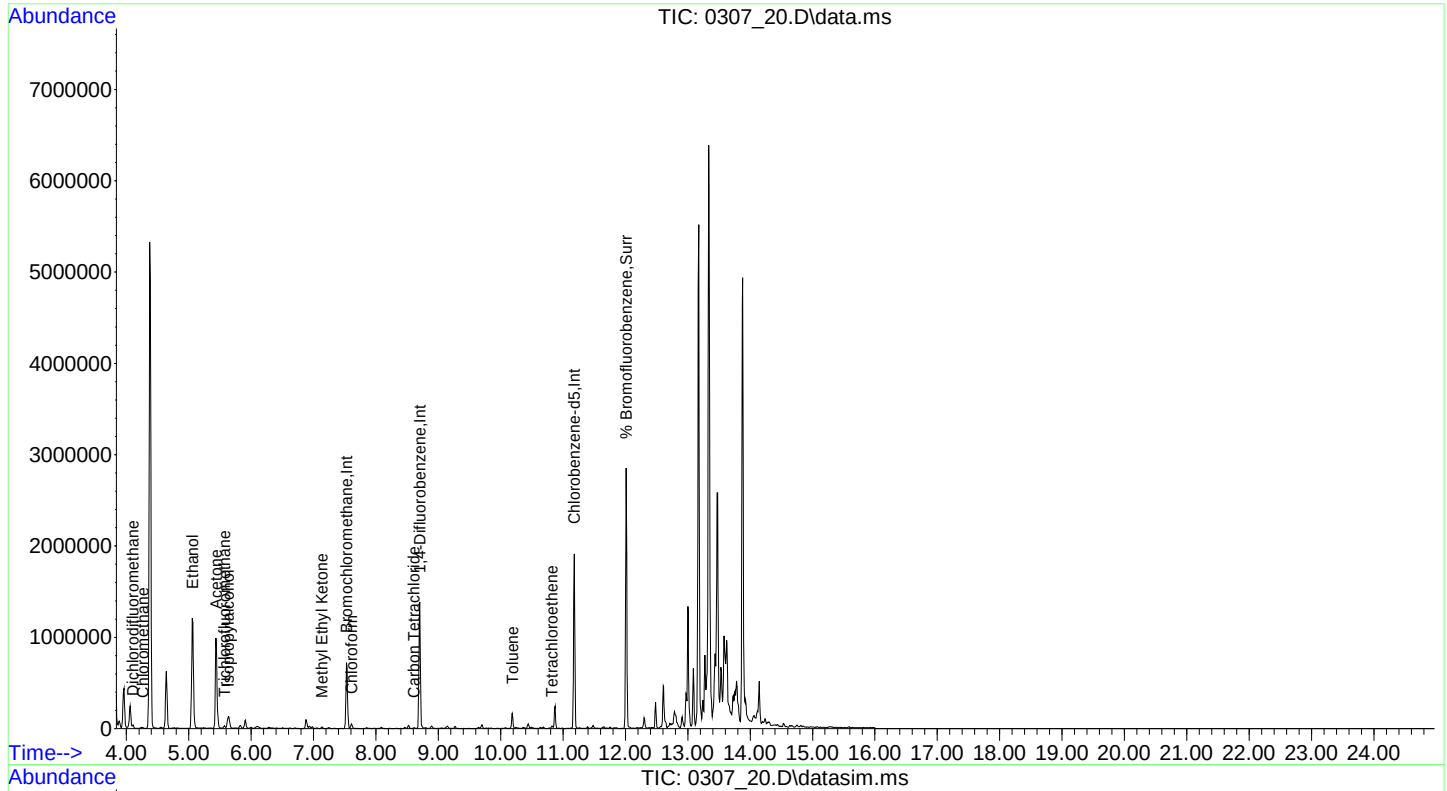
Compound	R.T	QIon	Response	Conc	Units	Dev(Min)

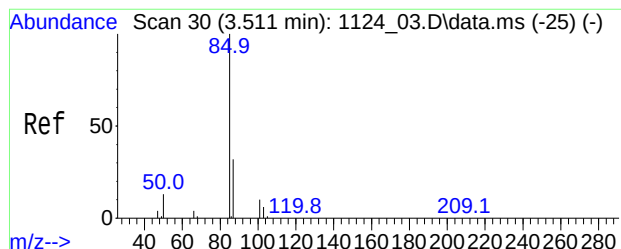
Internal Standards						
1) Bromochloromethane	7.529	130	319241	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1151720	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	476007	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	302281	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1151720	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	476007	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	718743	10.208	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.10%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	35695	0.474	ppbv	99
4) Chloromethane	4.260	50	9375	0.513	ppbv	99
11) Ethanol	5.055	45	1314282	232.954	ppbv	99
12) Acetone	5.437	43	1079021	37.283	ppbv	92
13) Trichlorofluoromethane	5.572	101	19245	0.241	ppbv	98
14) Isopropylalcohol	5.633	45	193240	5.698	ppbv	97
26) Methyl Ethyl Ketone	7.133	43	17818	0.451	ppbv	99
29) Chloroform	7.608	83	36925	0.587	ppbv	97
35) Carbon Tetrachloride	8.609	117	5156	0.070	ppbv	86
49) Toluene	10.188	91	110993	0.929	ppbv	99
53) Tetrachloroethene	10.821	166	6380	0.082	ppbv	93
85) Trichlorofluoromethane...	5.574	101	20038	0.236	ppbv#	100
89) Carbon Tetrachloride(sim)	8.612	117	5484	0.072	ppbv	99
95) Chloroform(sim)	7.611	83	35783	0.493	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	6461	0.083	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_20.D
Acq On : 7 Mar 2023 11:12 pm
Operator :
Client ID : IA-11
Lab ID : CN54086
ALS Vial : 11 Sample Multiplier: 1

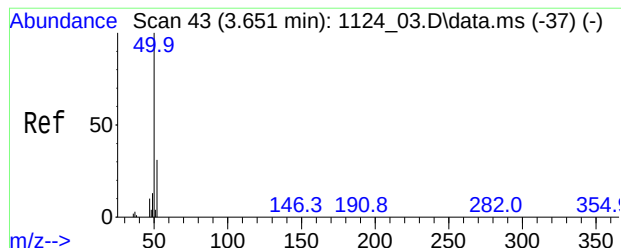
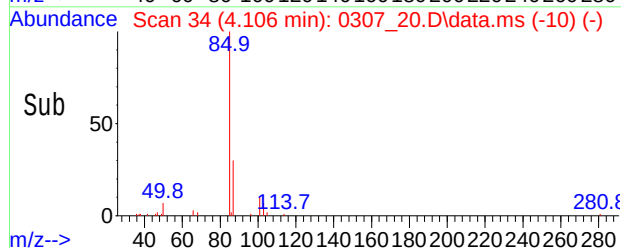
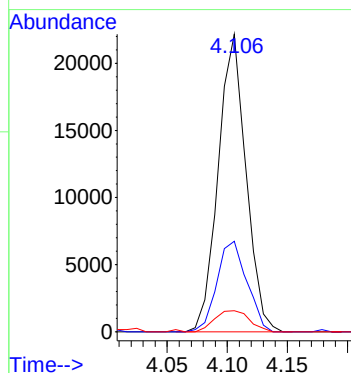
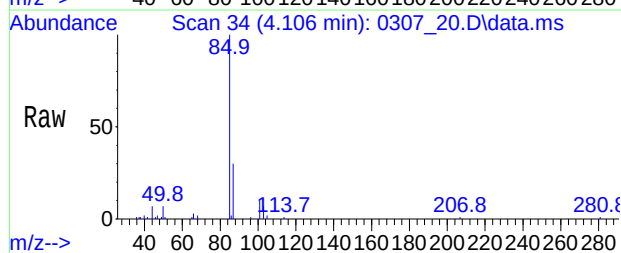
Quant Time: Mar 08 11:44:00 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





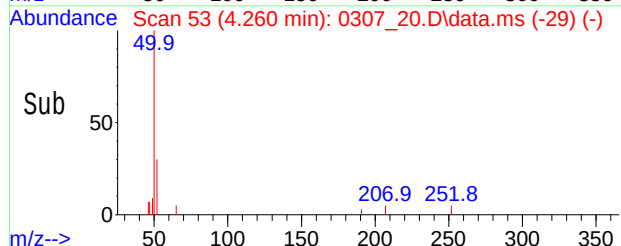
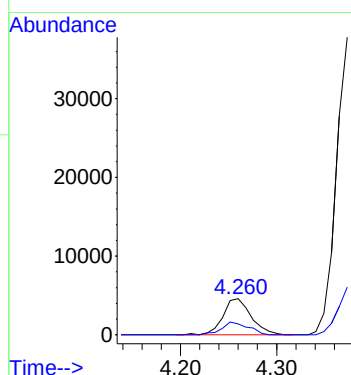
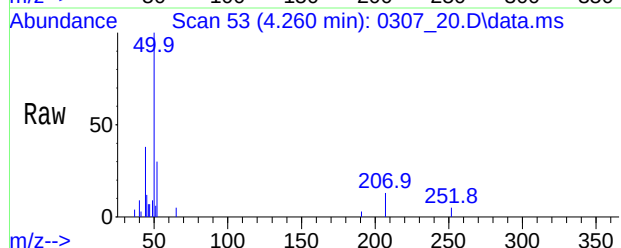
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.474 ppbv
 RT: 4.106 min Scan# 34
 Delta R.T. -0.008 min
 Lab File: 0307_20.D
 Acq: 7 Mar 2023 11:12 pm

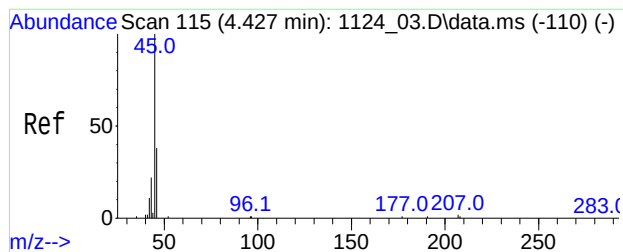
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.9	26.2	39.4
50	9.0	6.2	9.2



#4
 Chloromethane
 Conc: 8\$ 0.513 ppbv
 RT: 4.260 min Scan# 53
 Delta R.T. -0.008 min
 Lab File: 0307_20.D
 Acq: 7 Mar 2023 11:12 pm

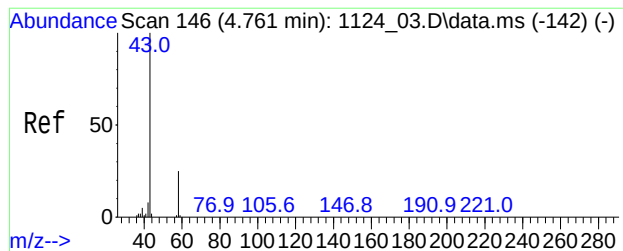
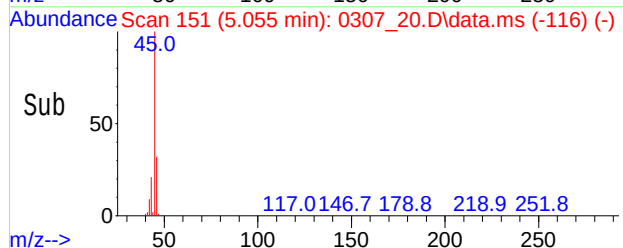
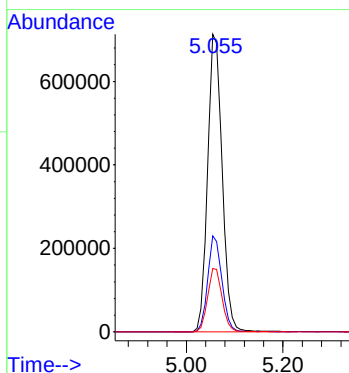
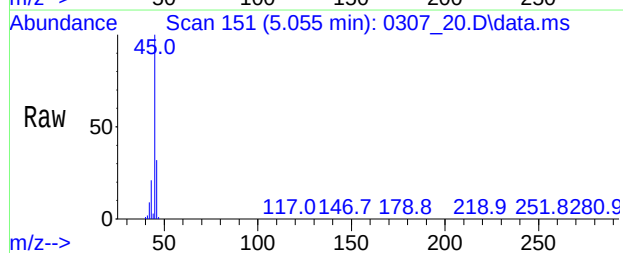
Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.4	13.8	53.8





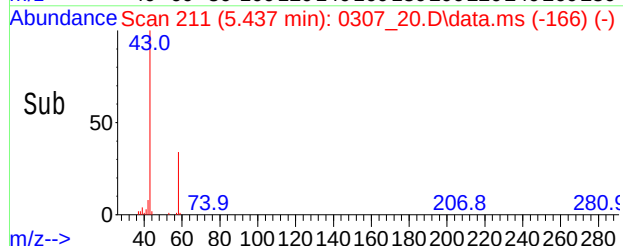
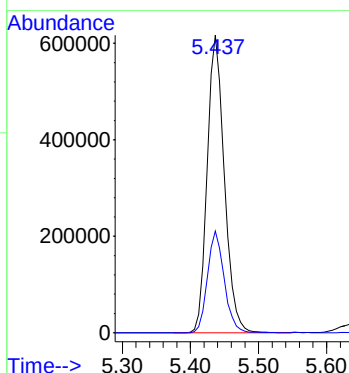
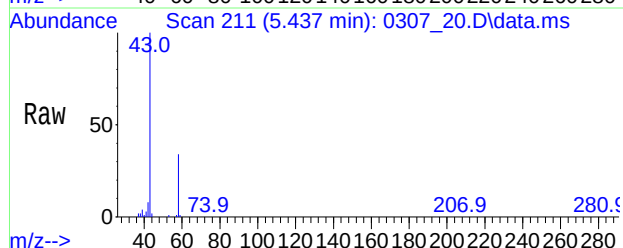
#11
Ethanol
Conc: 8\$ 232.954 ppbv
RT: 5.055 min Scan# 151
Delta R.T. -0.016 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

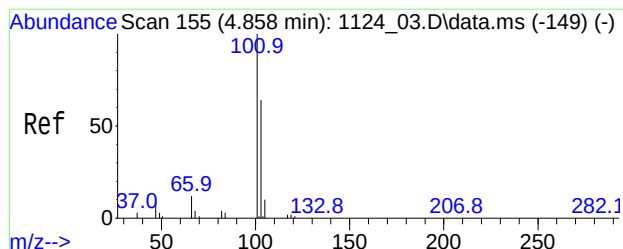
Tgt Ion: 45 Resp: 1314282
Ion Ratio Lower Upper
45 100
46 33.7 27.0 40.4
43 22.5 17.0 25.4



#12
Acetone
Conc: 8\$ 37.283 ppbv
RT: 5.437 min Scan# 211
Delta R.T. -0.024 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

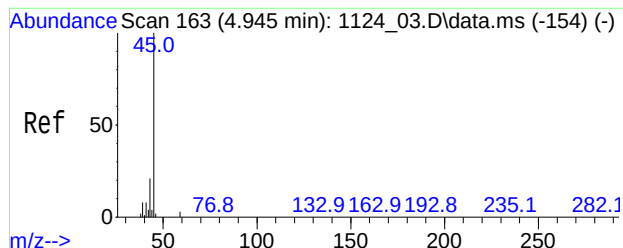
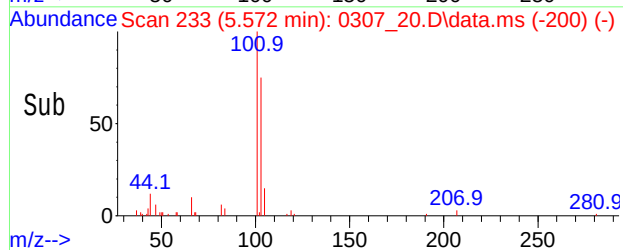
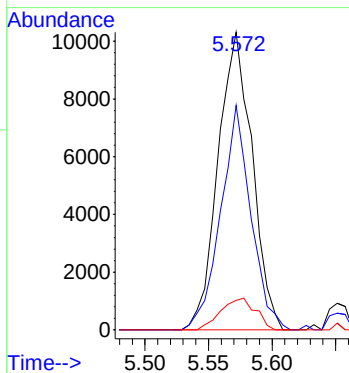
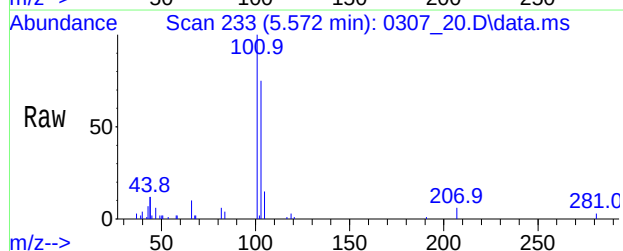
Tgt Ion: 43 Resp: 1079021
Ion Ratio Lower Upper
43 100
58 33.5 30.8 46.2





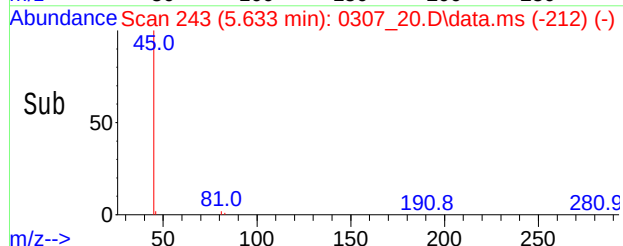
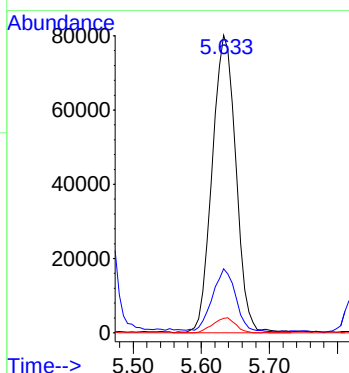
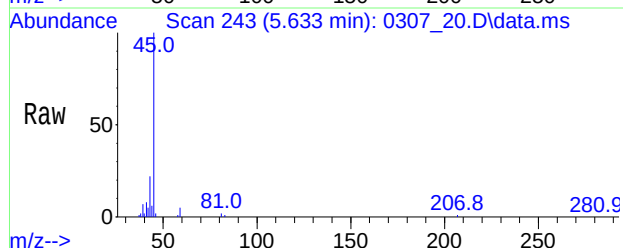
#13
Trichlorofluoromethane
Conc: 8\$ 0.241 ppbv
RT: 5.572 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

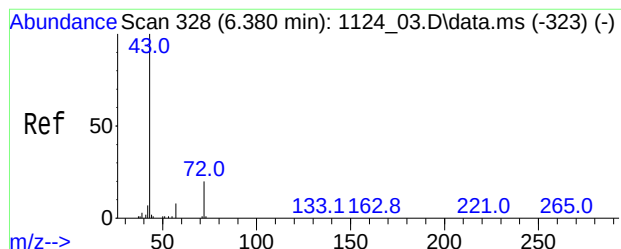
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19245		
103	67.1	52.9	79.3	
66	10.8	7.3	10.9	



#14
Isopropylalcohol
Conc: 8\$ 5.698 ppbv
RT: 5.633 min Scan# 243
Delta R.T. -0.012 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

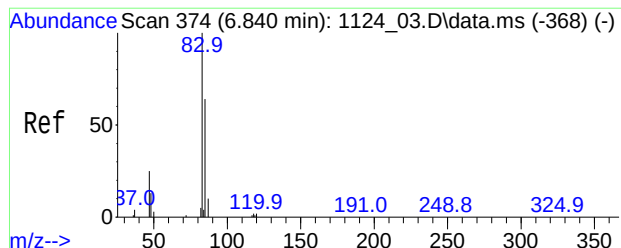
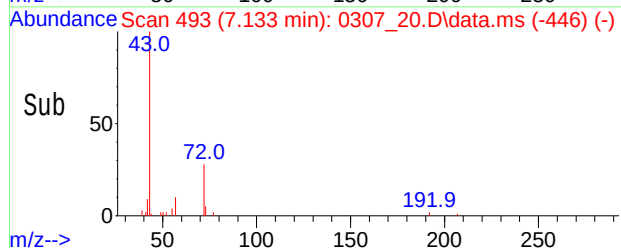
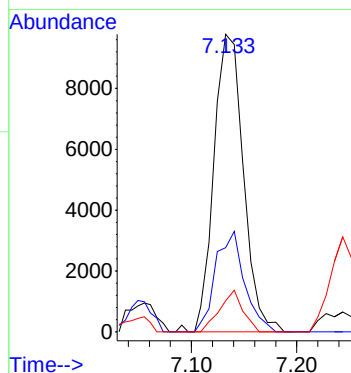
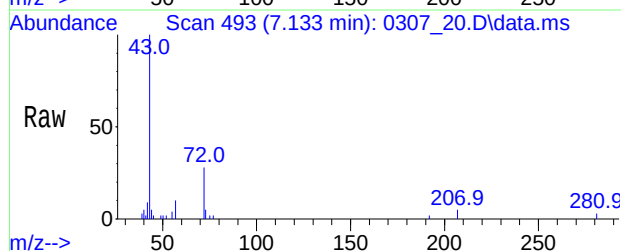
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	193240		
43	20.7	15.4	23.0	
59	4.8	3.9	5.9	





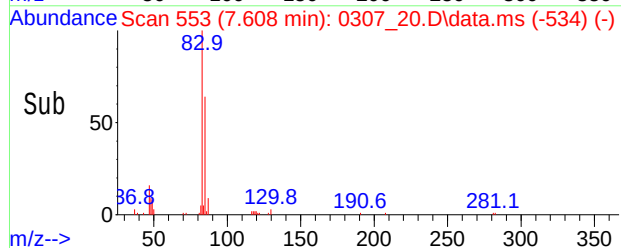
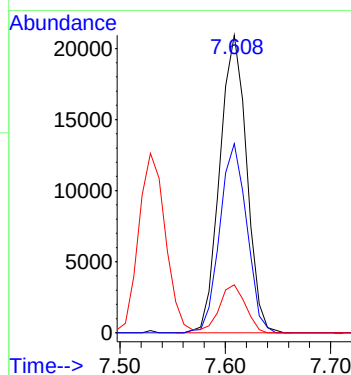
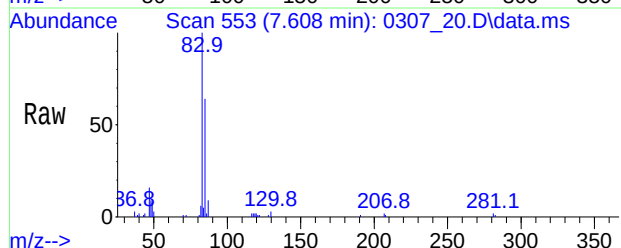
#26
Methyl Ethyl Ketone
Conc: 8\$ 0.451 ppbv
RT: 7.133 min Scan# 493
Delta R.T. -0.016 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

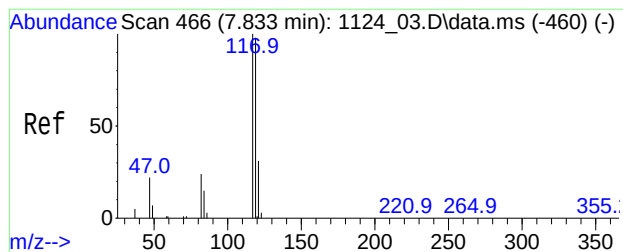
Tgt Ion	Ratio	Lower	Upper
43	100		
72	33.9	27.2	40.8
57	11.3	7.8	11.8



#29
Chloroform
Conc: 8\$ 0.587 ppbv
RT: 7.608 min Scan# 553
Delta R.T. 0.000 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

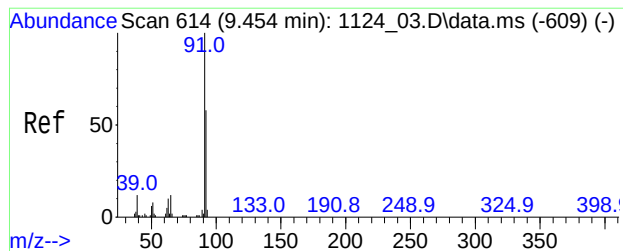
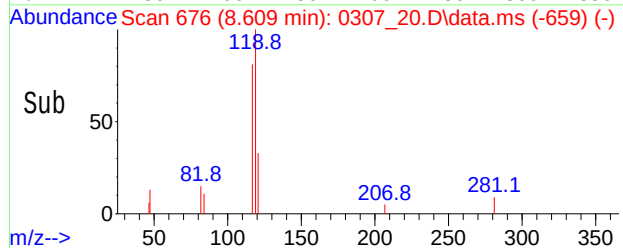
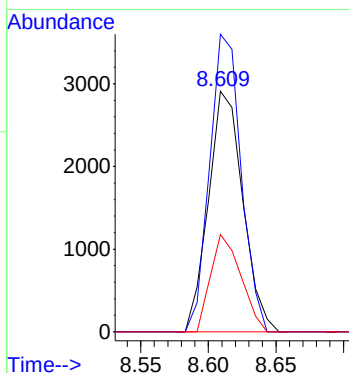
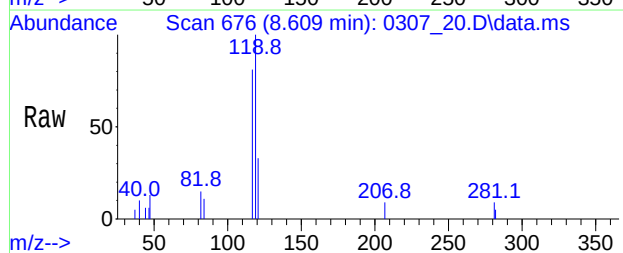
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	46.1	86.1
47	15.8	0.0	35.3





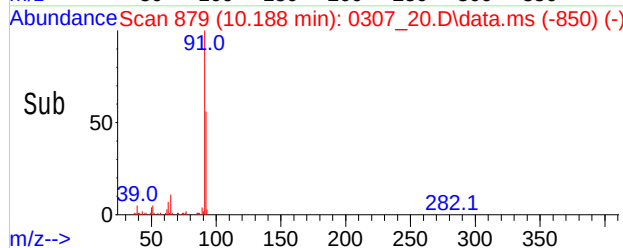
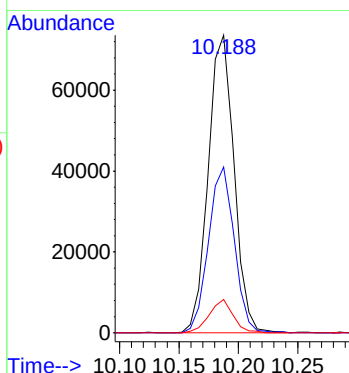
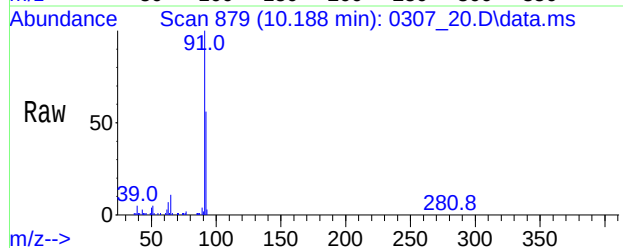
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

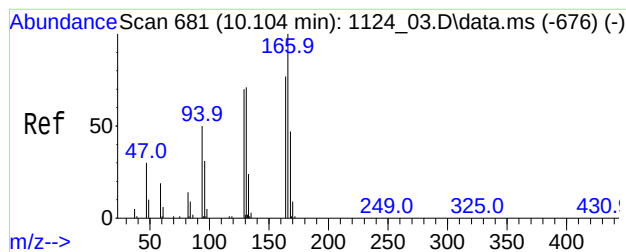
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5156		
119	113.1	77.0	117.0	
121	35.4	11.5	51.5	



#49
Toluene
Conc: 8\$ 0.929 ppbv
RT: 10.188 min Scan# 879
Delta R.T. 0.007 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

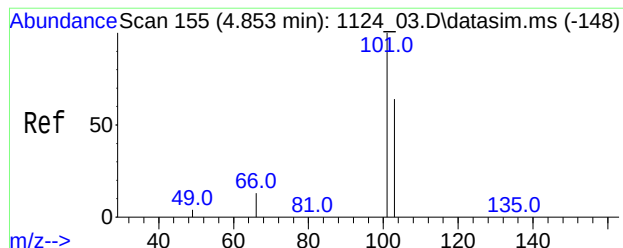
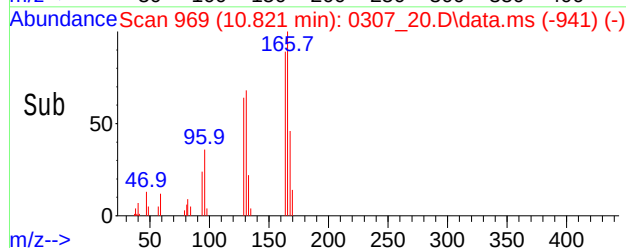
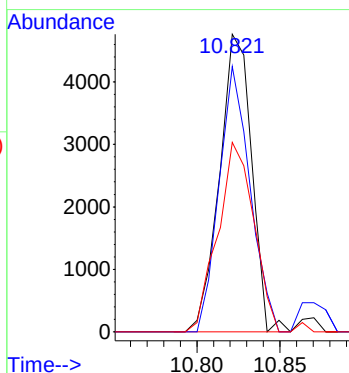
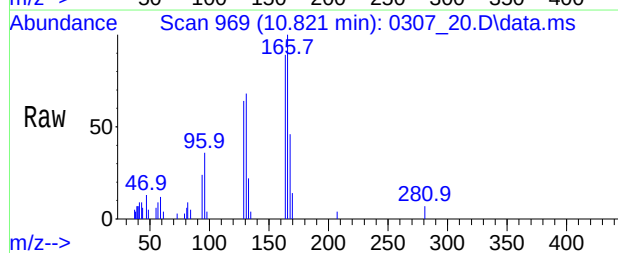
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	110993		
92	55.7	44.6	66.8	
65	10.3	7.2	10.8	





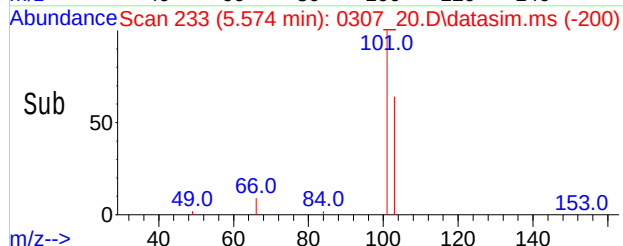
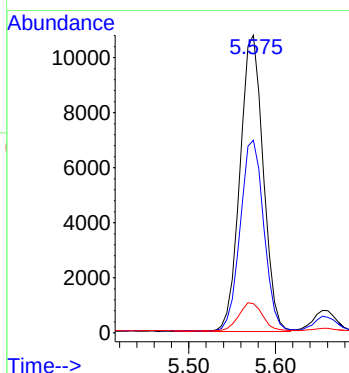
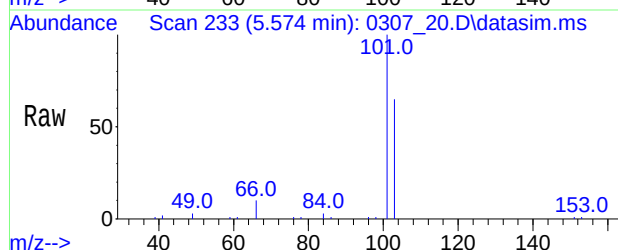
#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.821 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

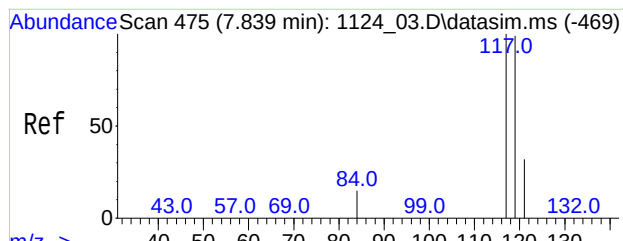
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	6380		
164	86.2		62.3	93.5
129	71.6		54.7	82.1



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.236 ppbv
RT: 5.574 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

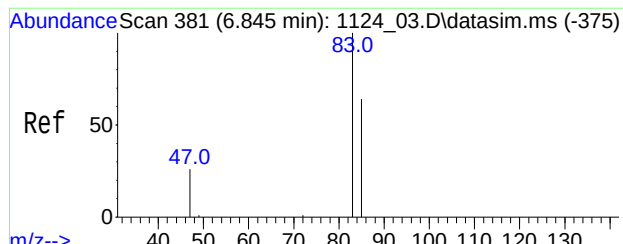
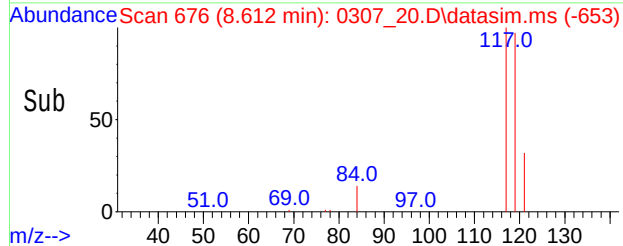
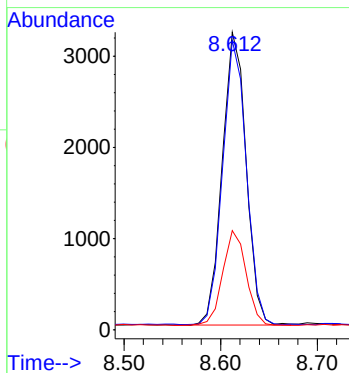
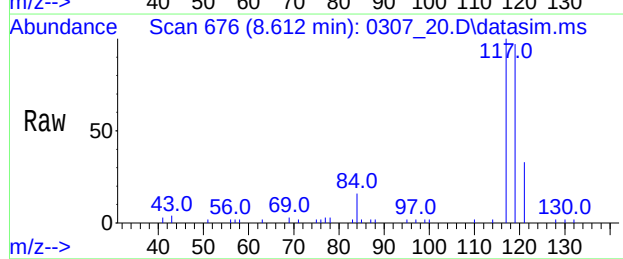
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	20038		
103	65.2		52.2	78.4
66	9.7		9.3	9.3#





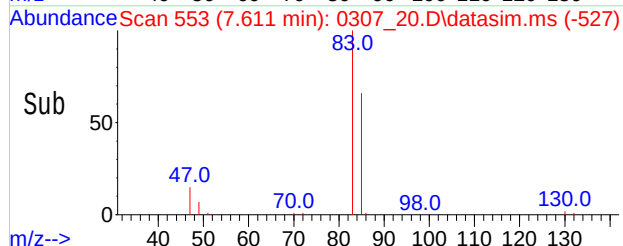
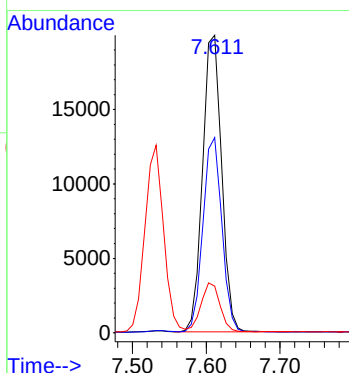
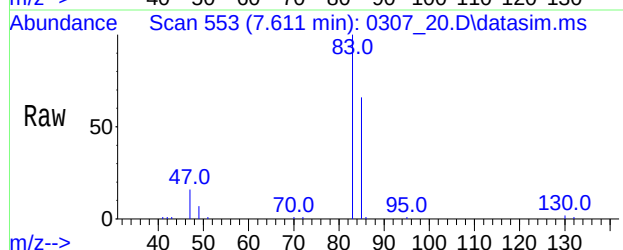
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.072 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

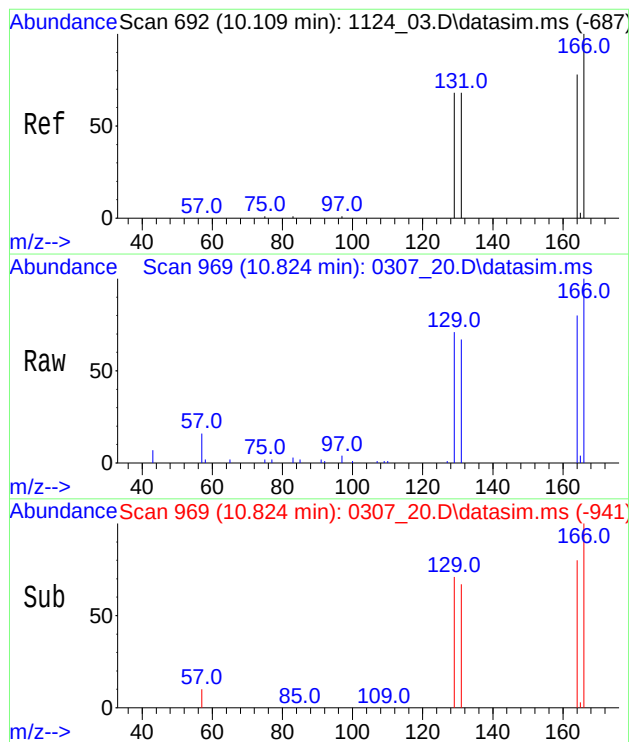
Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	77.7	116.5
121	32.0	25.1	37.7



#95
Chloroform(sim)
Conc: 8\$ 0.493 ppbv
RT: 7.611 min Scan# 553
Delta R.T. 0.008 min
Lab File: 0307_20.D
Acq: 7 Mar 2023 11:12 pm

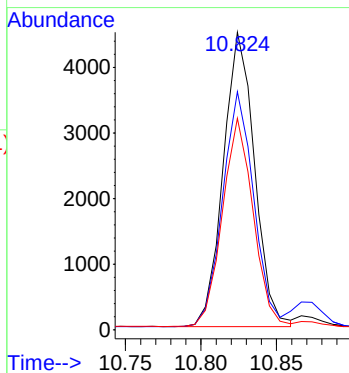
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.6	78.8
47	16.5	12.6	18.8





#105
 Tetrachloroethene(sim)
 Conc: 8\$ 0.083 ppbv
 RT: 10.824 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: 0307_20.D
 Acq: 7 Mar 2023 11:12 pm

Tgt Ion:	166	Resp:	6461
Ion Ratio	Lower	Upper	
166	100		
164	79.4	57.9	97.9
129	69.6	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-6

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079

Lab Sample ID: CN54087

Canister: 12857

Lab File ID: 0308_11.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/08/23

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	0.489		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	2.26	S	0.531	0.531	r
67-64-1	Acetone	0.842	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.246		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	0.266	U	0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.244	U	0.244	0.244	r
127-18-4	Tetrachloroethene	0.445		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-6

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54087

Canister: 12857 Lab File ID: 0308_11.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

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
71-43-2	Benzene(sim)	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride(sim)	0.069		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)	0.230	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:\AIR2023\CHEM39\03MAR\06\
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 Acq On : 8 Mar 2023 5:15 pm
 Operator :
 Client ID : VP-6
 Lab ID : CN54087
 ALS Vial : 36 Sample Multiplier: 1

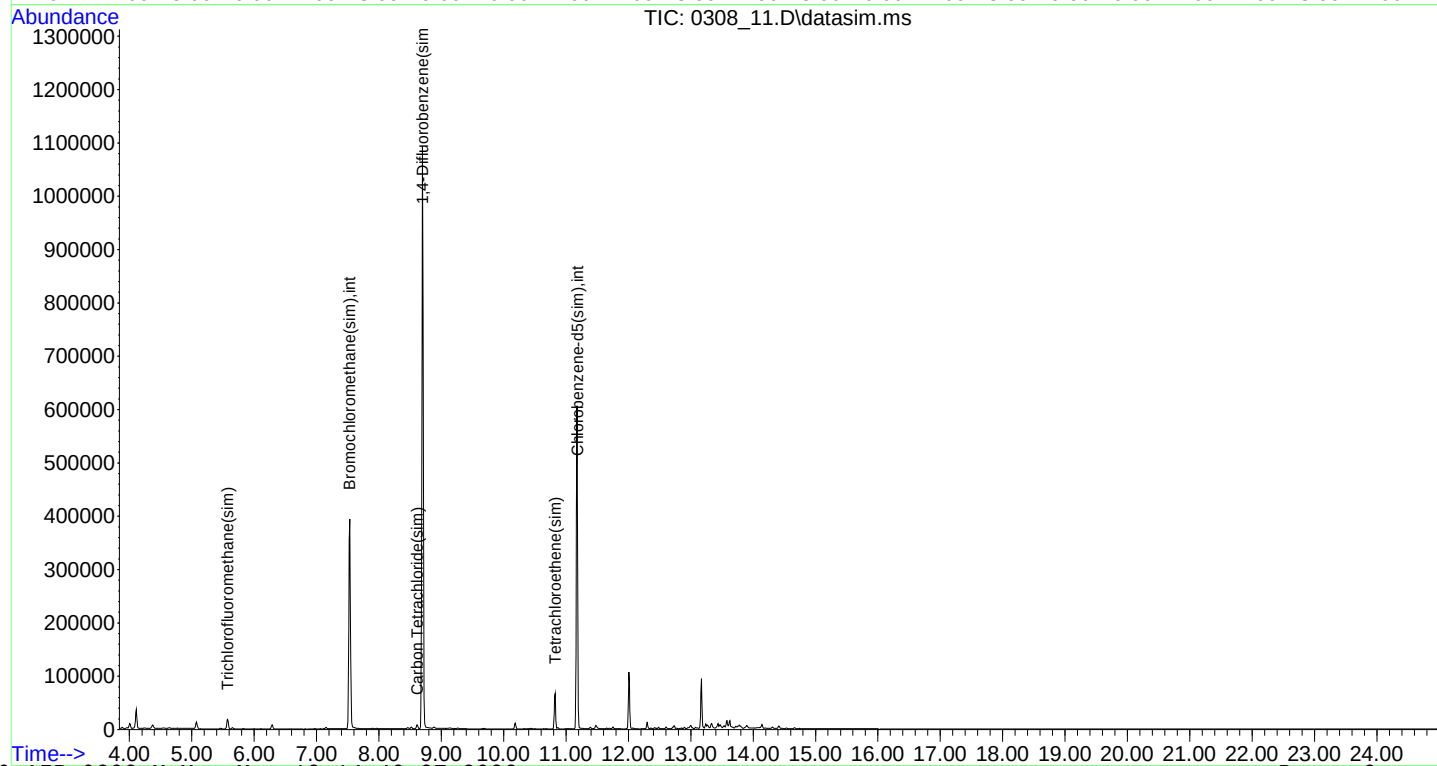
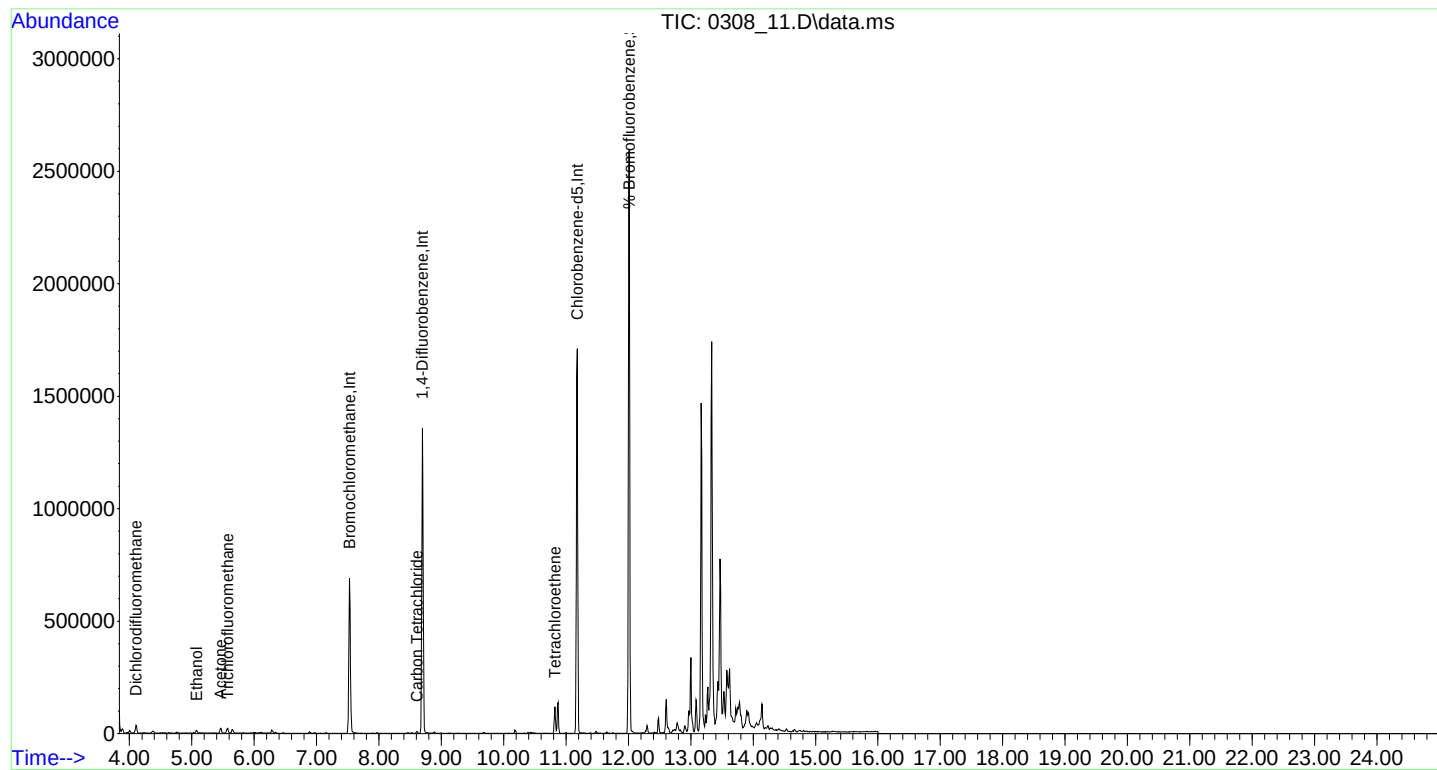
Quant Time: Mar 09 09:20:36 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

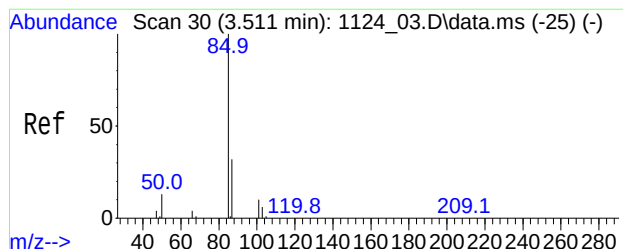
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	298431	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1084764	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	444562	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	290150	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1084764	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	444562	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	685897	10.430	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	104.30%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	34471	0.489	ppbv	98
11) Ethanol	5.079	45	11898	2.256	ppbv	97
12) Acetone	5.461	43	22768	0.842	ppbv	92
13) Trichlorofluoromethane	5.572	101	18425	0.246	ppbv	99
35) Carbon Tetrachloride	8.609	117	5132	0.074	ppbv	87
53) Tetrachloroethene	10.821	166	32656	0.445	ppbv	98
85] Trichlorofluoromethane...	5.575	101	18816	0.231	ppbv#	99
89] Carbon Tetrachloride(sim)	8.612	117	5030	0.069	ppbv	99
105] Tetrachloroethene(sim)	10.824	166	30848	0.419	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_11.D
Acq On : 8 Mar 2023 5:15 pm
Operator :
Client ID : VP-6
Lab ID : CN54087
ALS Vial : 36 Sample Multiplier: 1

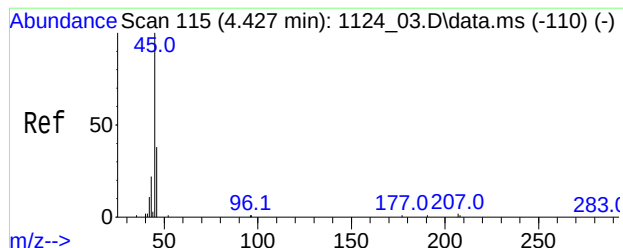
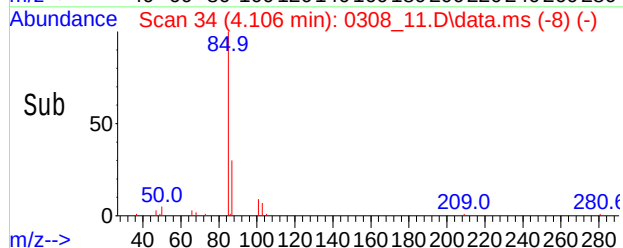
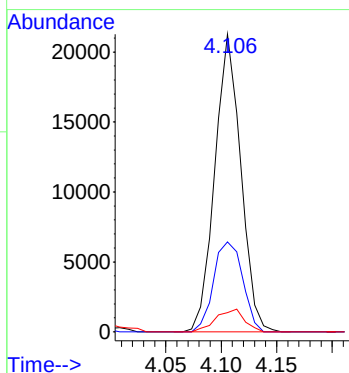
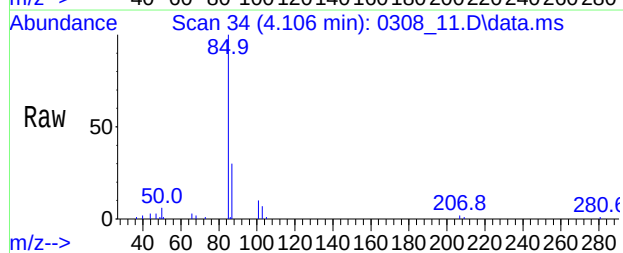
Quant Time: Mar 09 09:20:36 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





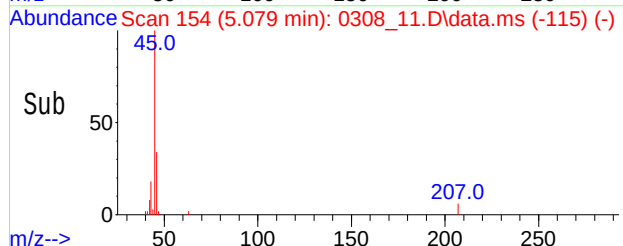
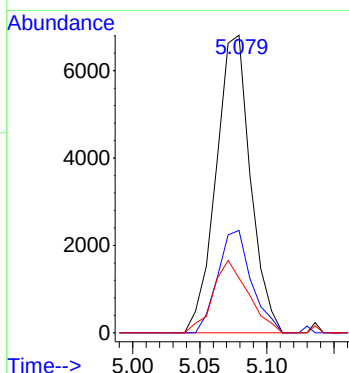
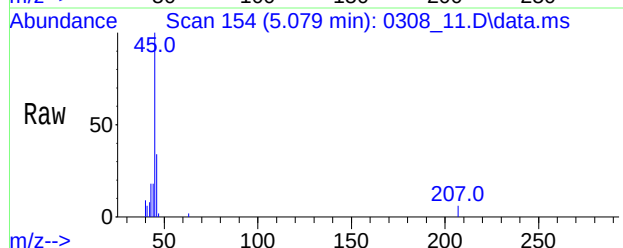
#3
Dichlorodifluoromethane
Conc: 8\$ 0.489 ppbv
RT: 4.106 min Scan# 34
Delta R.T. 0.008 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

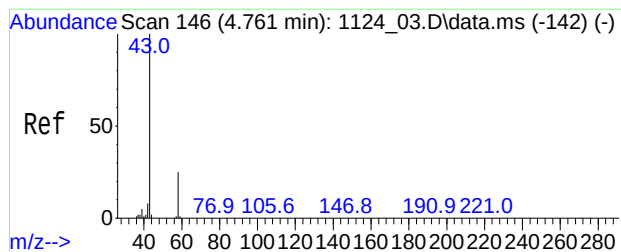
Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.9	26.2	39.4
50	8.4	6.2	9.2



#11
Ethanol
Conc: 8\$ 2.256 ppbv
RT: 5.079 min Scan# 154
Delta R.T. 0.016 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

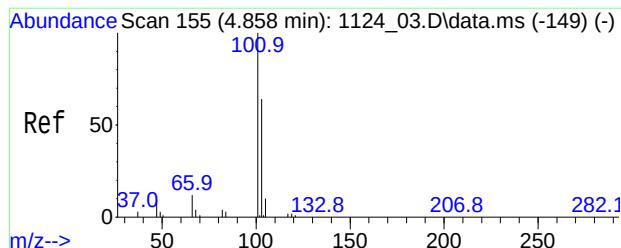
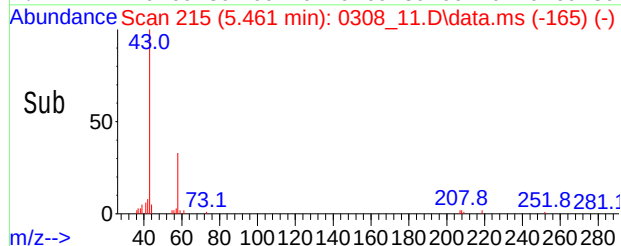
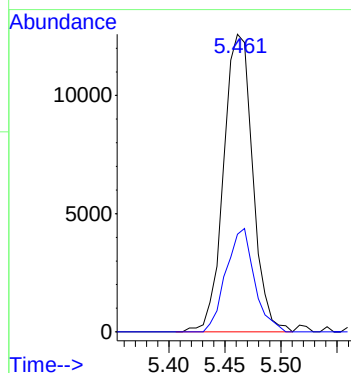
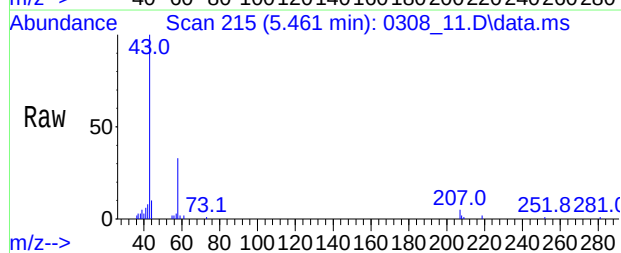
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.7	27.0	40.4
43	24.9	17.0	25.4





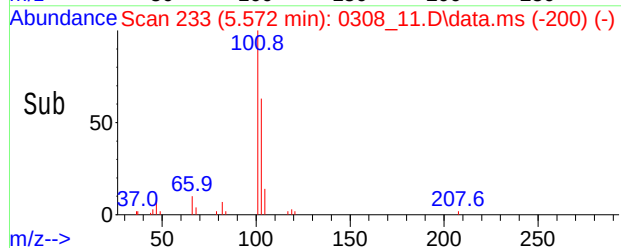
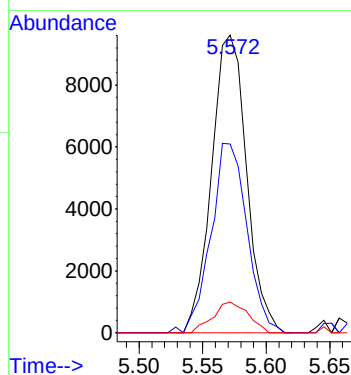
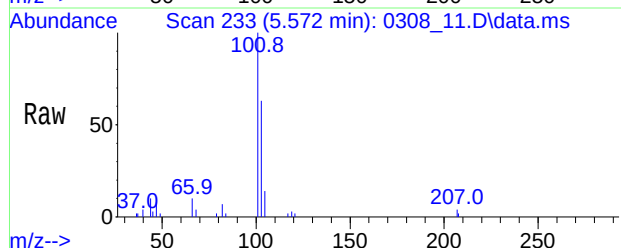
#12
Acetone
Conc: 8\$ 0.842 ppbv
RT: 5.461 min Scan# 215
Delta R.T. 0.006 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

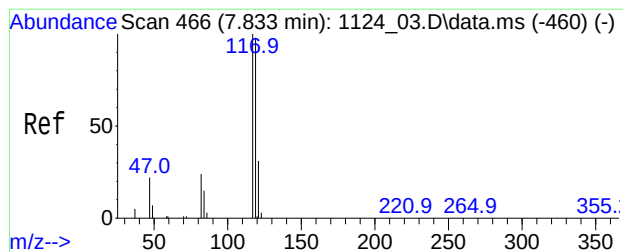
Tgt Ion: 43 Resp: 22768
Ion Ratio Lower Upper
43 100
58 33.9 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.246 ppbv
RT: 5.572 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

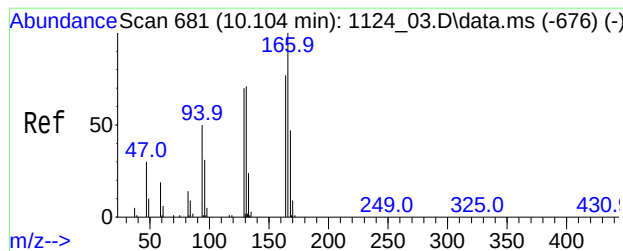
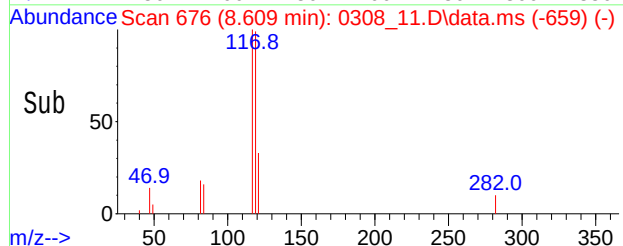
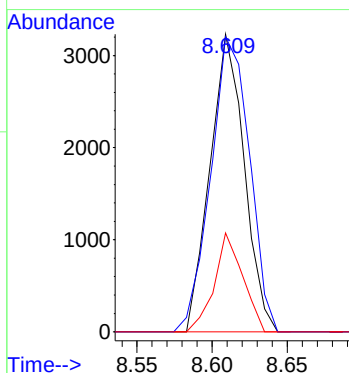
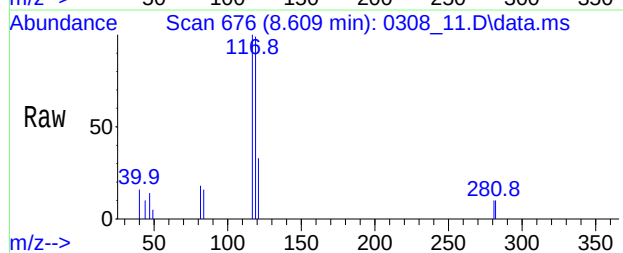
Tgt Ion: 101 Resp: 18425
Ion Ratio Lower Upper
101 100
103 65.5 52.9 79.3
66 10.4 7.3 10.9





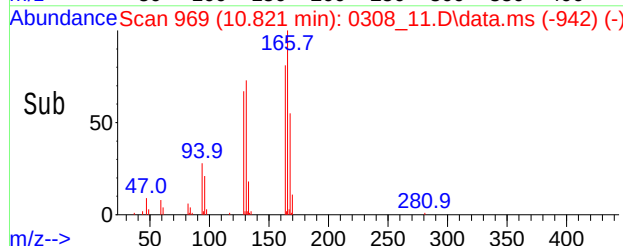
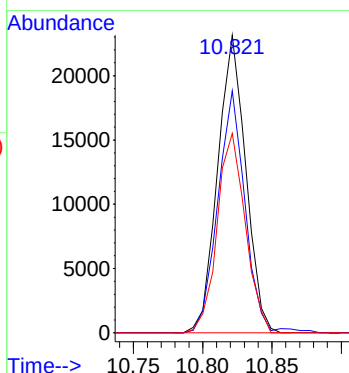
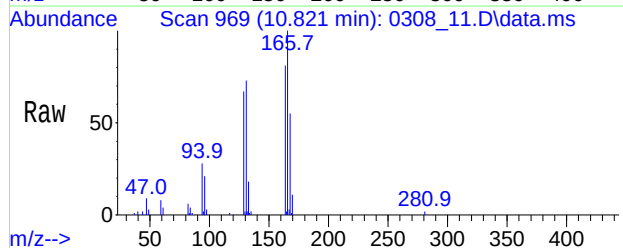
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

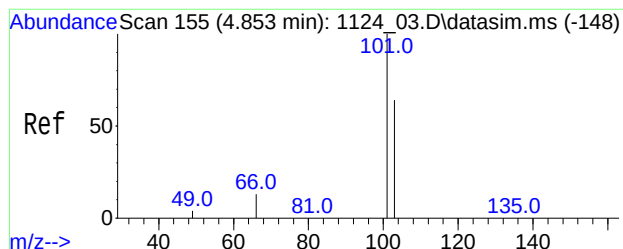
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5132		
119	112.2	77.0	117.0	
121	27.5	11.5	51.5	



#53
Tetrachloroethene
Conc: 8\$ 0.445 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

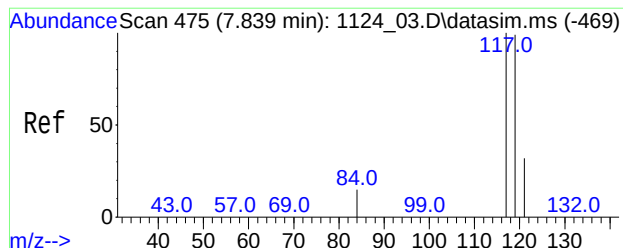
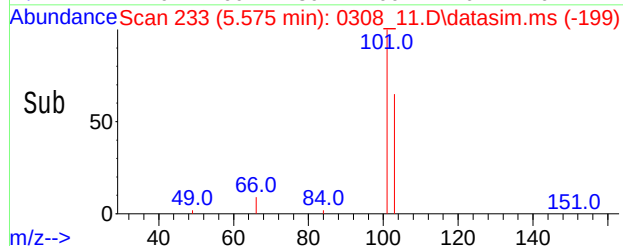
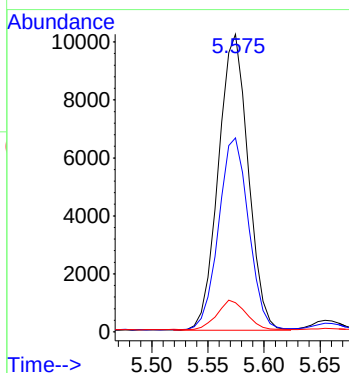
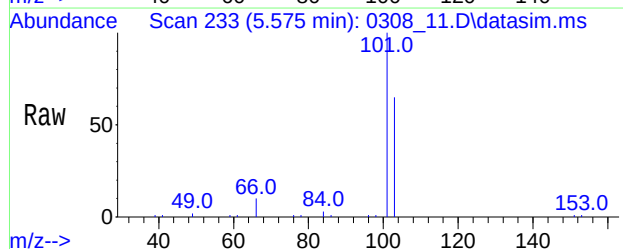
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	32656		
164	79.3	62.3	93.5	
129	67.2	54.7	82.1	





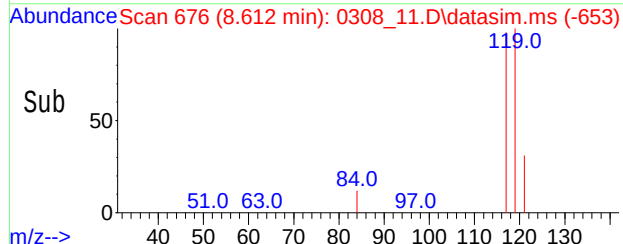
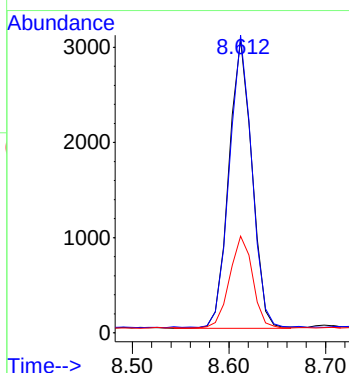
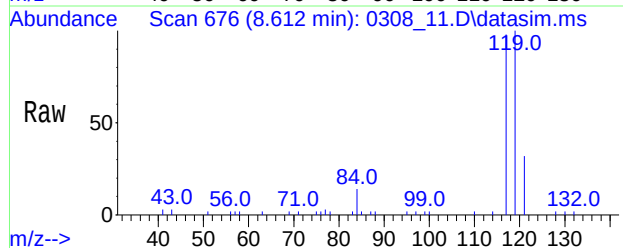
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.231 ppbv
RT: 5.575 min Scan# 233
Delta R.T. 0.006 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

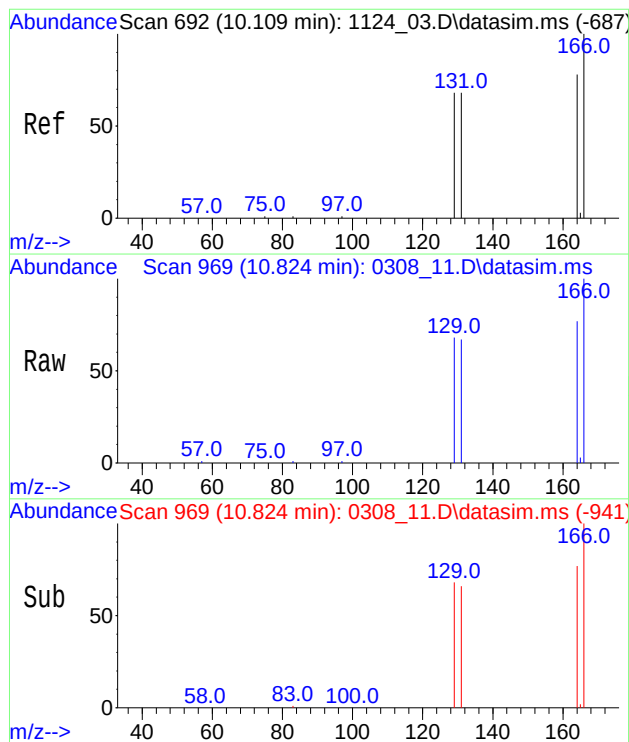
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	18816		
103	65.6	52.2	78.4	
66	9.7	9.3	9.3#	



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.069 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_11.D
Acq: 8 Mar 2023 5:15 pm

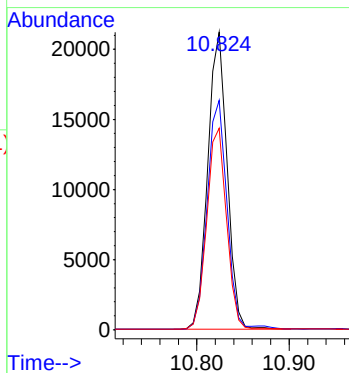
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5030		
119	98.5	77.7	116.5	
121	31.9	25.1	37.7	





#105
 Tetrachloroethene(sim)
 Conc: 8\$ 0.419 ppbv
 RT: 10.824 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: 0308_11.D
 Acq: 8 Mar 2023 5:15 pm

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.1	57.9	97.9
129	68.9	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

IA-2

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CN54088
Canister:	17161	Lab File ID:	0307_21.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
		Date Received:	03/07/23
Purge Volume	200 (cc)	Date Analyzed:	03/07/23
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	0.493		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	13.4	S	0.531	0.531	r
67-64-1	Acetone	4.65	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.251		0.178	0.178	r
67-63-0	Isopropylalcohol	4.77	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	0.863	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	0.478		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	0.529		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

Client: FPMGROUP Lab: Phoenix Env. Labs

IA-2

SDG No.: GCN54079

Lab Sample ID: CN54088

Canister: 17161

Lab File ID: 0307_21.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/07/23

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)	0.072		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)	0.097		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)	0.230	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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_21.D
 Acq On : 7 Mar 2023 11:51 pm
 Operator :
 Client ID : IA-2
 Lab ID : CN54088
 ALS Vial : 12 Sample Multiplier: 1

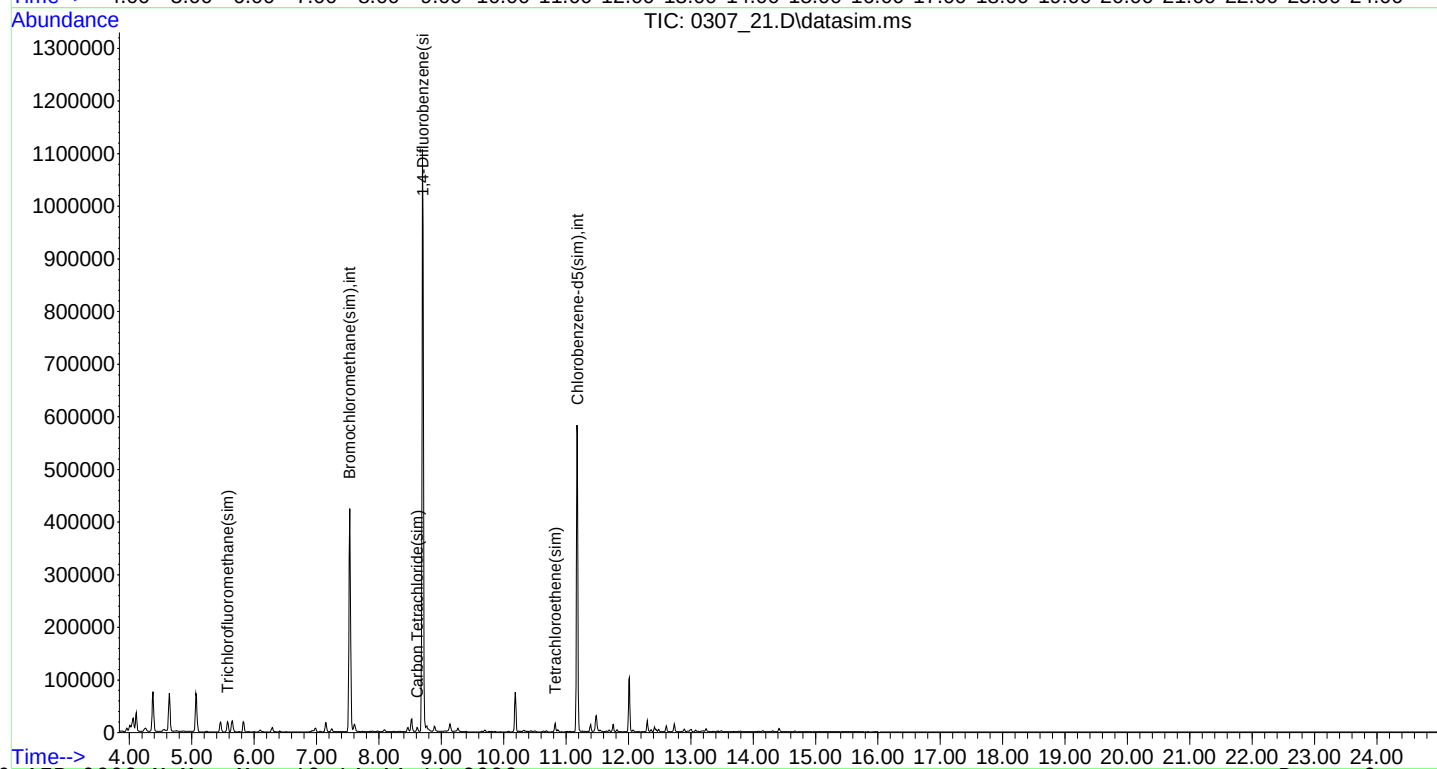
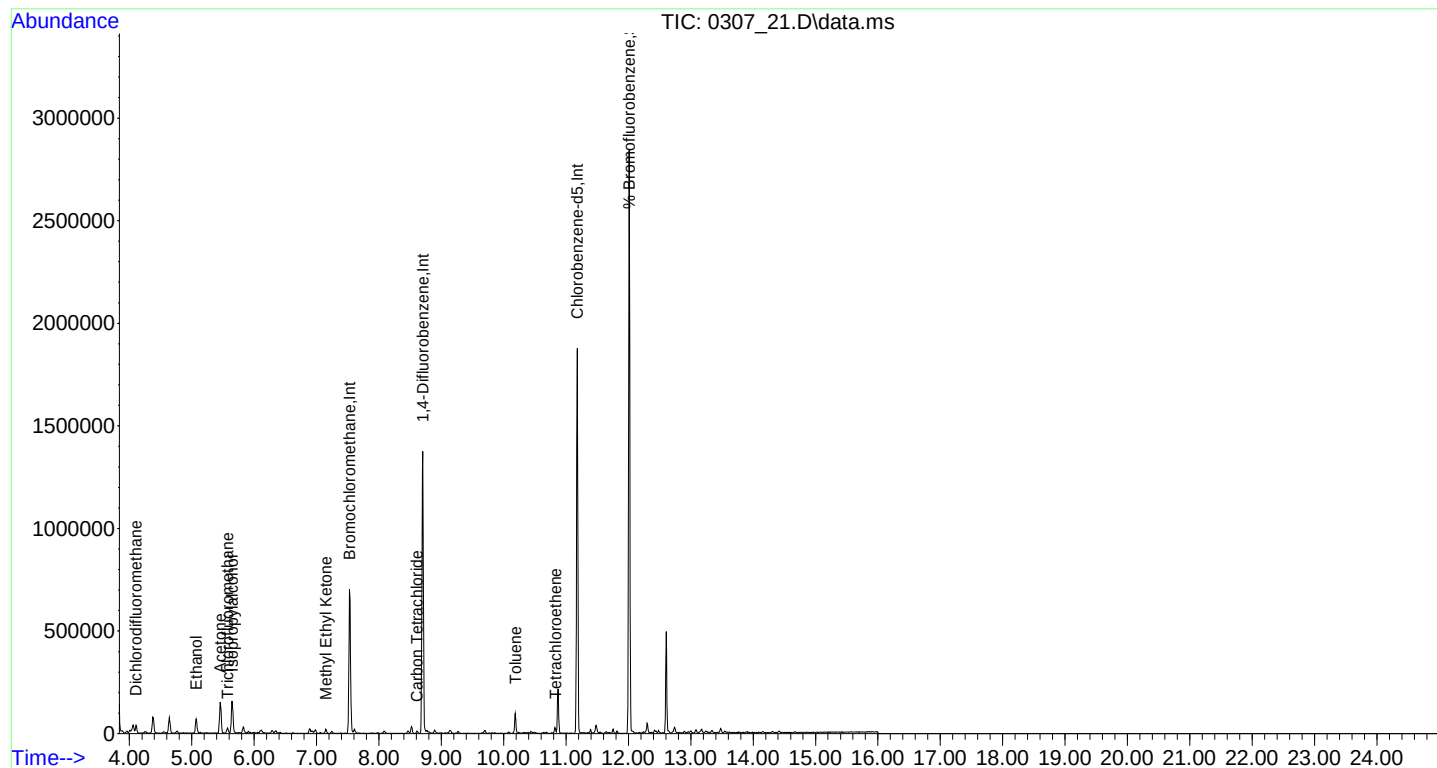
Quant Time: Mar 08 11:44:12 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

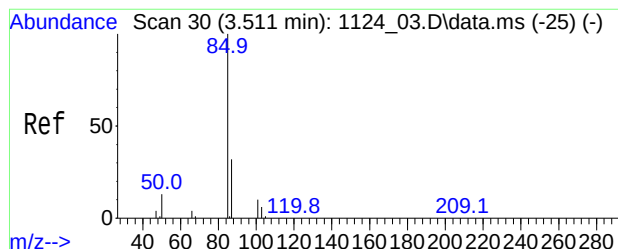
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	316232	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1134997	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	473262	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	299196	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1134997	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	473262	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	711733	10.167	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	101.70%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	36820	0.493	ppbv	99
11) Ethanol	5.071	45	75119	13.441	ppbv	97
12) Acetone	5.455	43	133242	4.648	ppbv	88
13) Trichlorofluoromethane	5.572	101	19910	0.251	ppbv	99
14) Isopropylalcohol	5.645	45	160295	4.771	ppbv	96
26) Methyl Ethyl Ketone	7.148	43	18677	0.478	ppbv	99
35) Carbon Tetrachloride	8.609	117	5537	0.076	ppbv	91
49) Toluene	10.188	91	62368	0.529	ppbv#	97
53) Tetrachloroethene	10.828	166	7982	0.104	ppbv	98
85] Trichlorofluoromethane...	5.574	101	19776	0.236	ppbv#	100
89] Carbon Tetrachloride(sim)	8.612	117	5383	0.072	ppbv	99
105] Tetrachloroethene(sim)	10.824	166	7463	0.097	ppbv	100

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_21.D
Acq On : 7 Mar 2023 11:51 pm
Operator :
Client ID : IA-2
Lab ID : CN54088
ALS Vial : 12 Sample Multiplier: 1

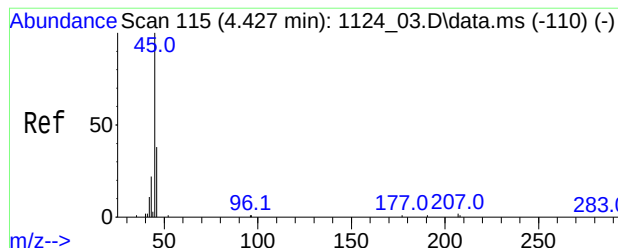
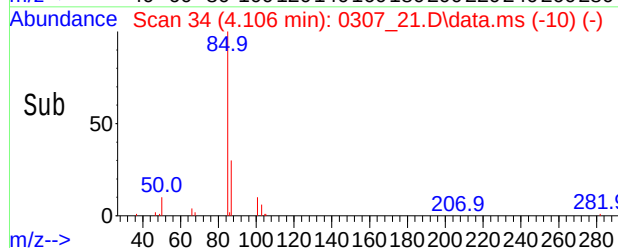
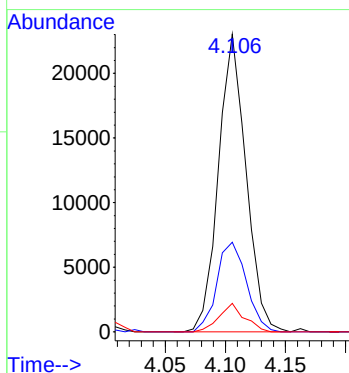
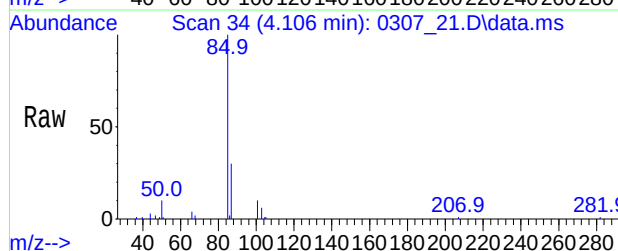
Quant Time: Mar 08 11:44:12 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





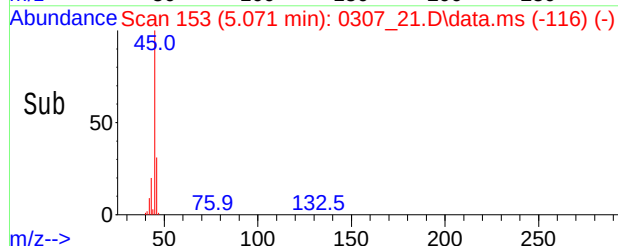
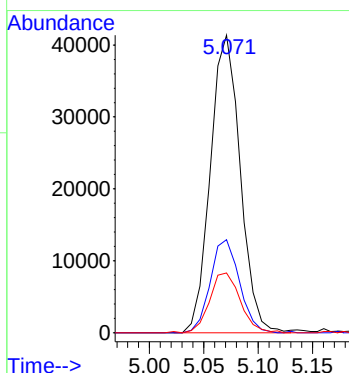
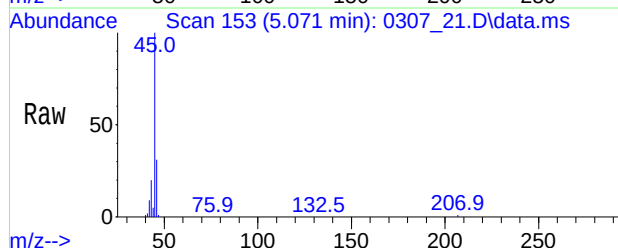
#3
Dichlorodifluoromethane
Conc: 8\$ 0.493 ppbv
RT: 4.106 min Scan# 34
Delta R.T. -0.008 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

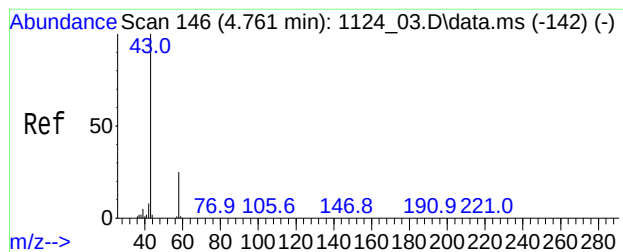
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.2	39.4
50	8.8	6.2	9.2



#11
Ethanol
Conc: 8\$ 13.441 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

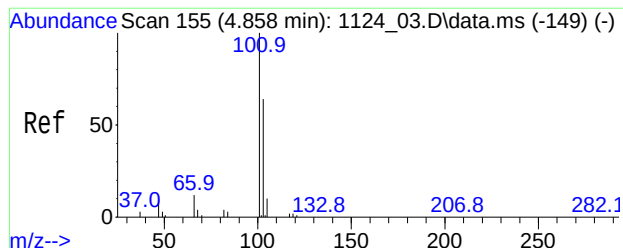
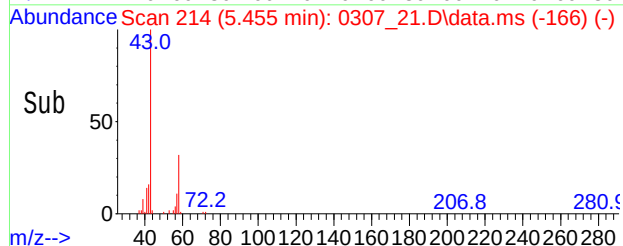
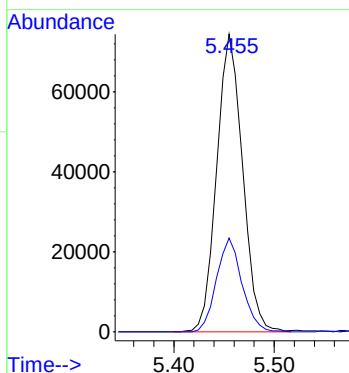
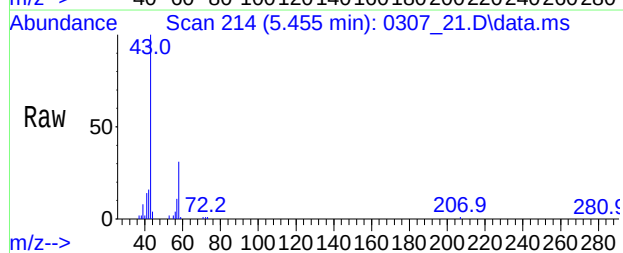
Tgt Ion	Ratio	Lower	Upper
45	100		
46	31.5	27.0	40.4
43	20.9	17.0	25.4





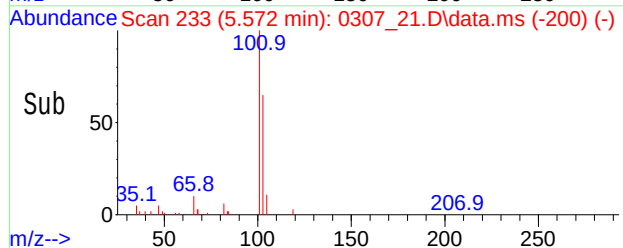
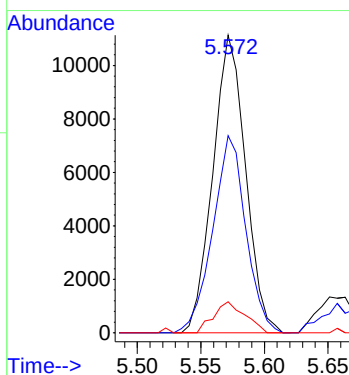
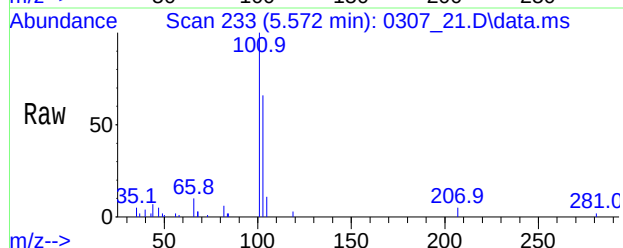
#12
Acetone
Conc: 8\$ 4.648 ppbv
RT: 5.455 min Scan# 214
Delta R.T. -0.006 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

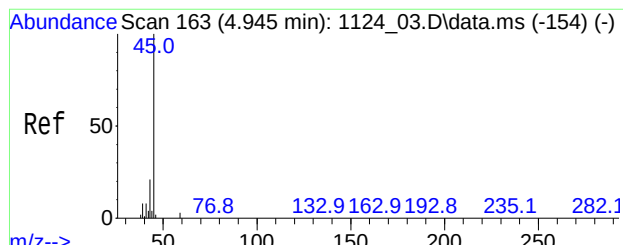
Tgt Ion: 43 Resp: 133242
Ion Ratio Lower Upper
43 100
58 31.0 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.251 ppbv
RT: 5.572 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

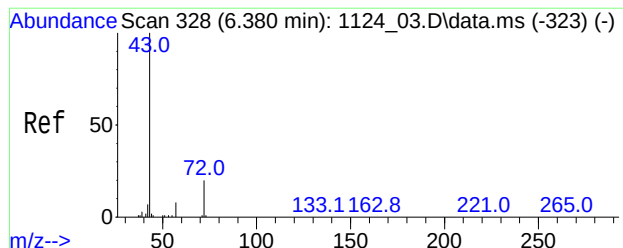
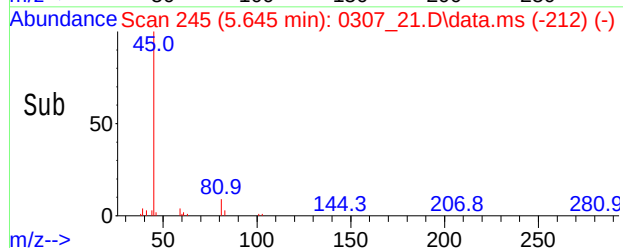
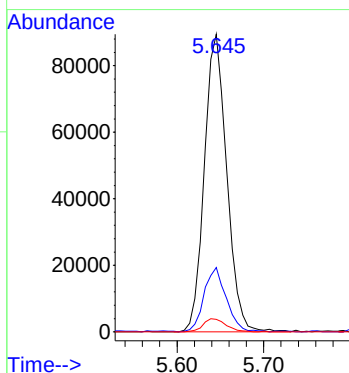
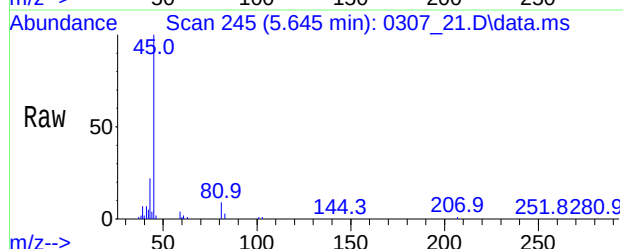
Tgt Ion: 101 Resp: 19910
Ion Ratio Lower Upper
101 100
103 66.9 52.9 79.3
66 10.0 7.3 10.9





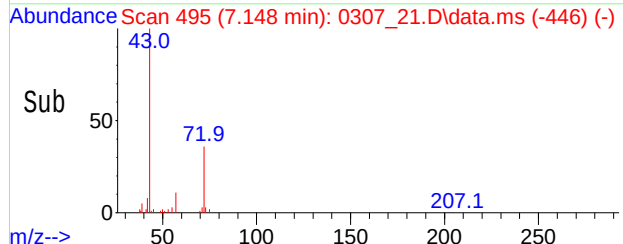
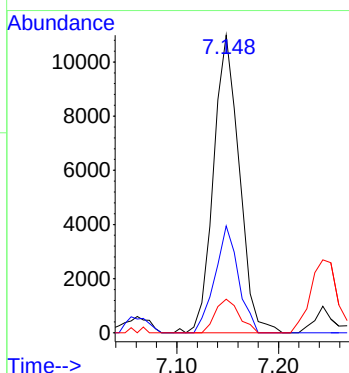
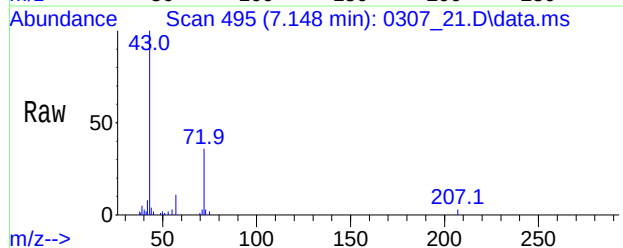
#14
Isopropylalcohol
Conc: 8\$ 4.771 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

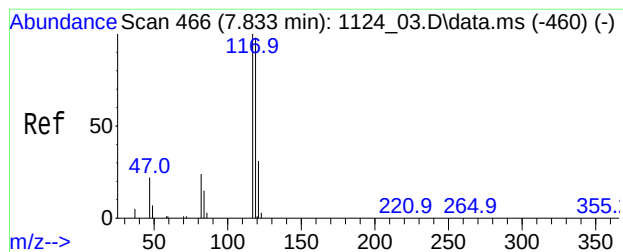
Tgt Ion: 45 Resp: 160295
Ion Ratio Lower Upper
45 100
43 21.5 15.4 23.0
59 4.5 3.9 5.9



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.478 ppbv
RT: 7.148 min Scan# 495
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

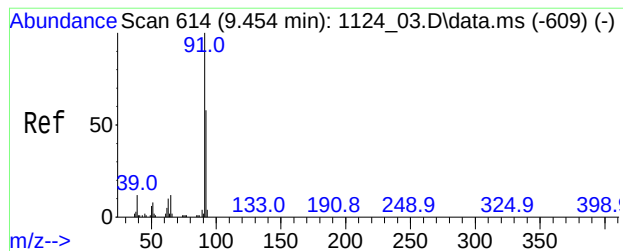
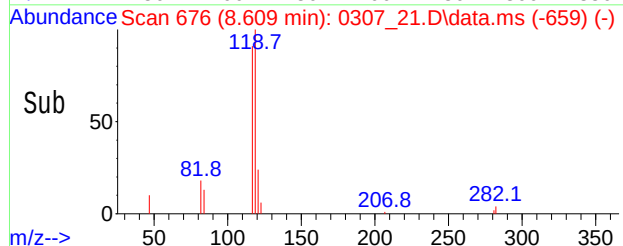
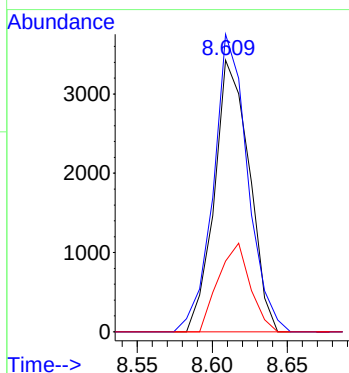
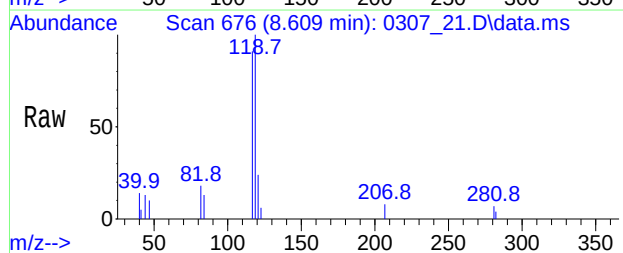
Tgt Ion: 43 Resp: 18677
Ion Ratio Lower Upper
43 100
72 33.8 27.2 40.8
57 10.9 7.8 11.8





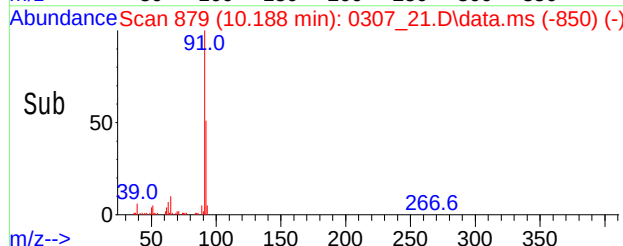
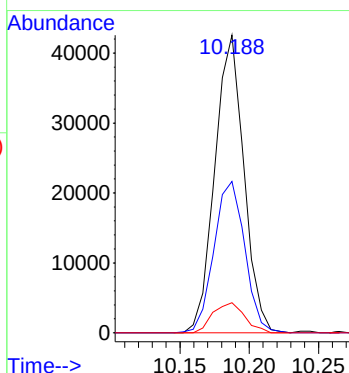
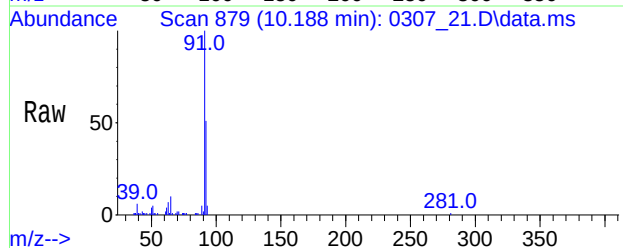
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

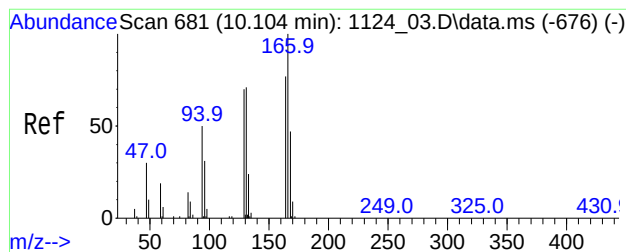
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5537		
119	107.7	77.0	117.0	
121	29.8	11.5	51.5	



#49
Toluene
Conc: 8\$ 0.529 ppbv
RT: 10.188 min Scan# 879
Delta R.T. 0.007 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

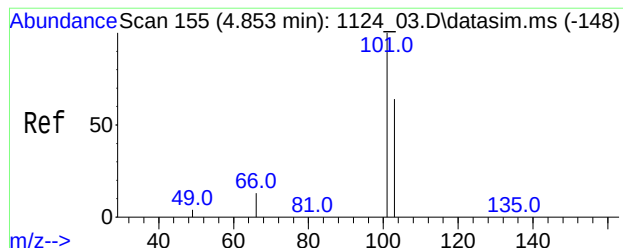
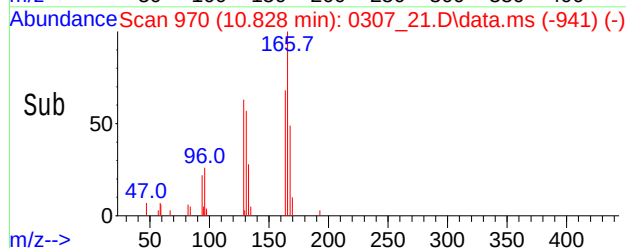
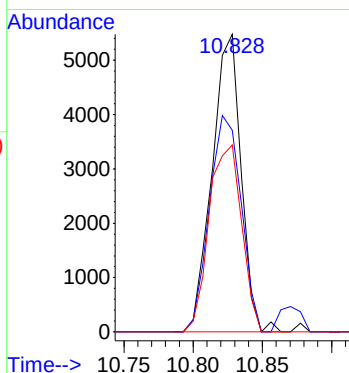
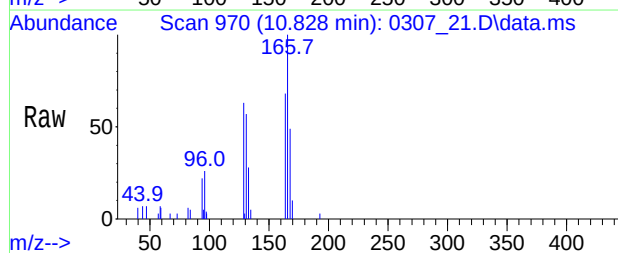
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	62368		
92	54.0	44.6	66.8	
65	11.0	7.2	10.8#	





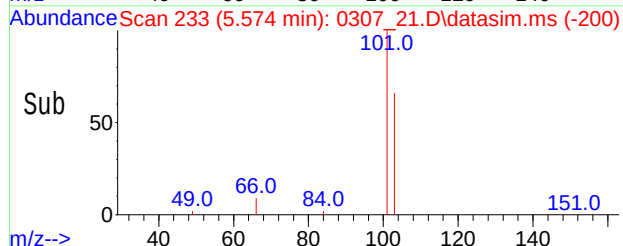
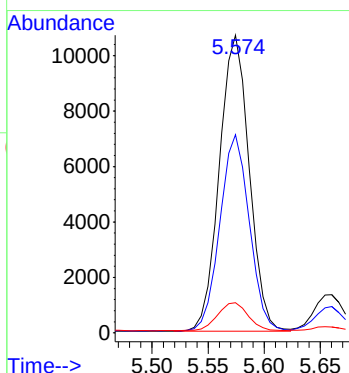
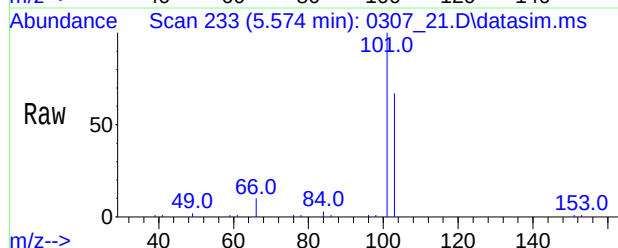
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Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.828 min Scan# 970
Delta R.T. 0.007 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

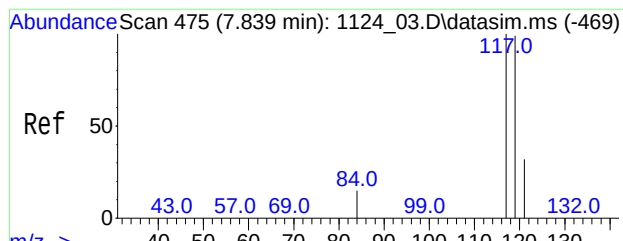
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	7982		
164	79.8		62.3	93.5
129	70.5		54.7	82.1



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.236 ppbv
RT: 5.574 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

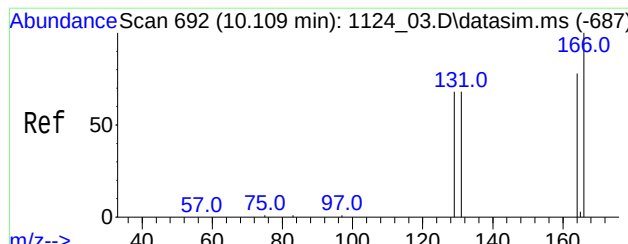
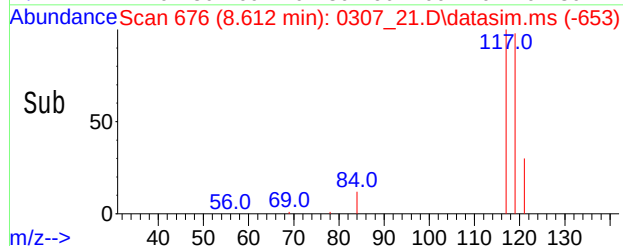
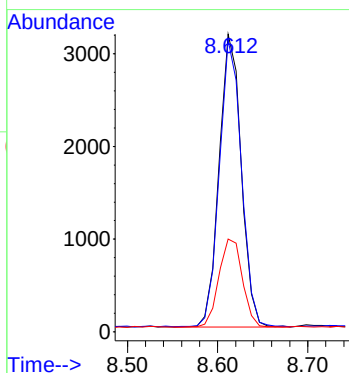
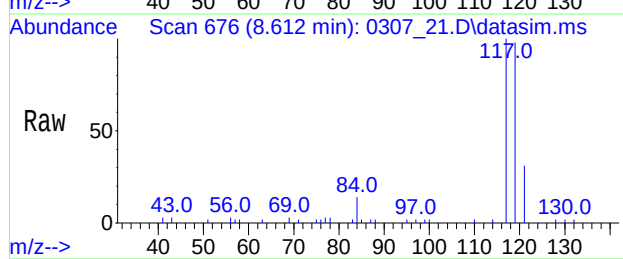
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19776		
103	65.4		52.2	78.4
66	9.7		9.3	9.3#





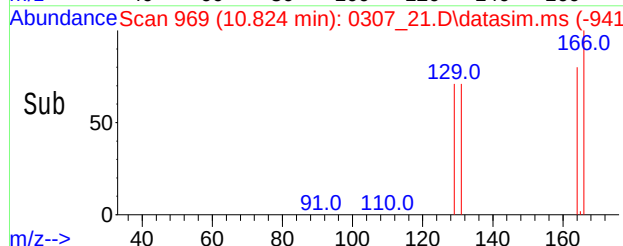
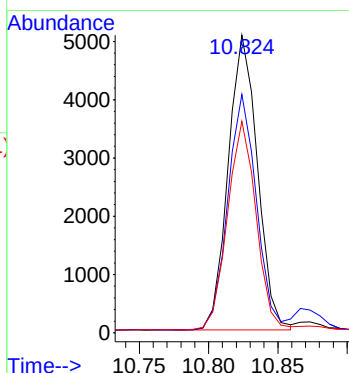
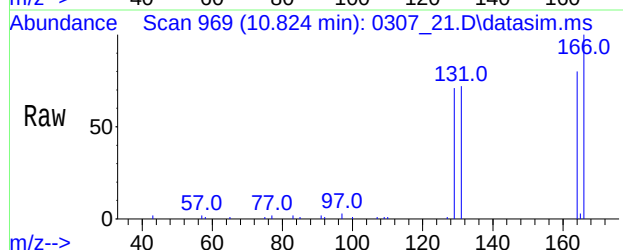
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.072 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

Tgt Ion:	117	Resp:	5383
Ion Ratio	Lower	Upper	
117	100		
119	97.7	77.7	116.5
121	32.3	25.1	37.7



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.097 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_21.D
Acq: 7 Mar 2023 11:51 pm

Tgt Ion:	166	Resp:	7463
Ion Ratio	Lower	Upper	
166	100		
164	77.9	57.9	97.9
129	70.1	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54089</u>
Canister:	<u>13652</u>	Lab File ID:	<u>0307_22.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	0.517		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	6.21	S	0.531	0.531	r
67-64-1	Acetone	5.54	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.252		0.178	0.178	r
67-63-0	Isopropylalcohol	3.26	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	0.381		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	0.751		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

Client: FPMGROUP Lab: Phoenix Env. Labs

IA-4

SDG No.: GCN54079

Lab Sample ID: CN54089

Canister: 13652

Lab File ID: 0307_22.D

Instrument: CHEM39 Column: TX-1 ; #10157

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/08/23

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)	0.074		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
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)	0.163		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_22.D
 Acq On : 8 Mar 2023 12:31 am
 Operator :
 Client ID : IA-4
 Lab ID : CN54089
 ALS Vial : 13 Sample Multiplier: 1

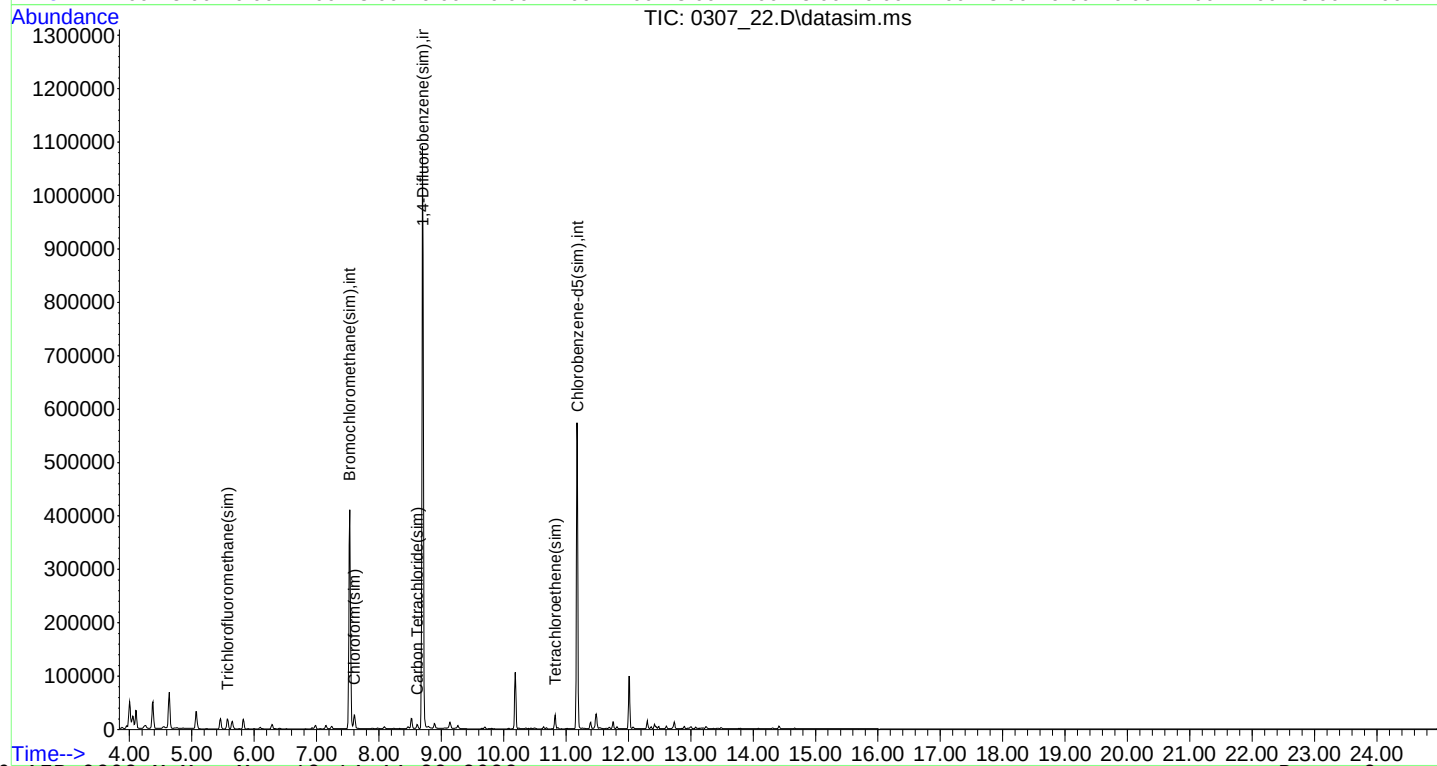
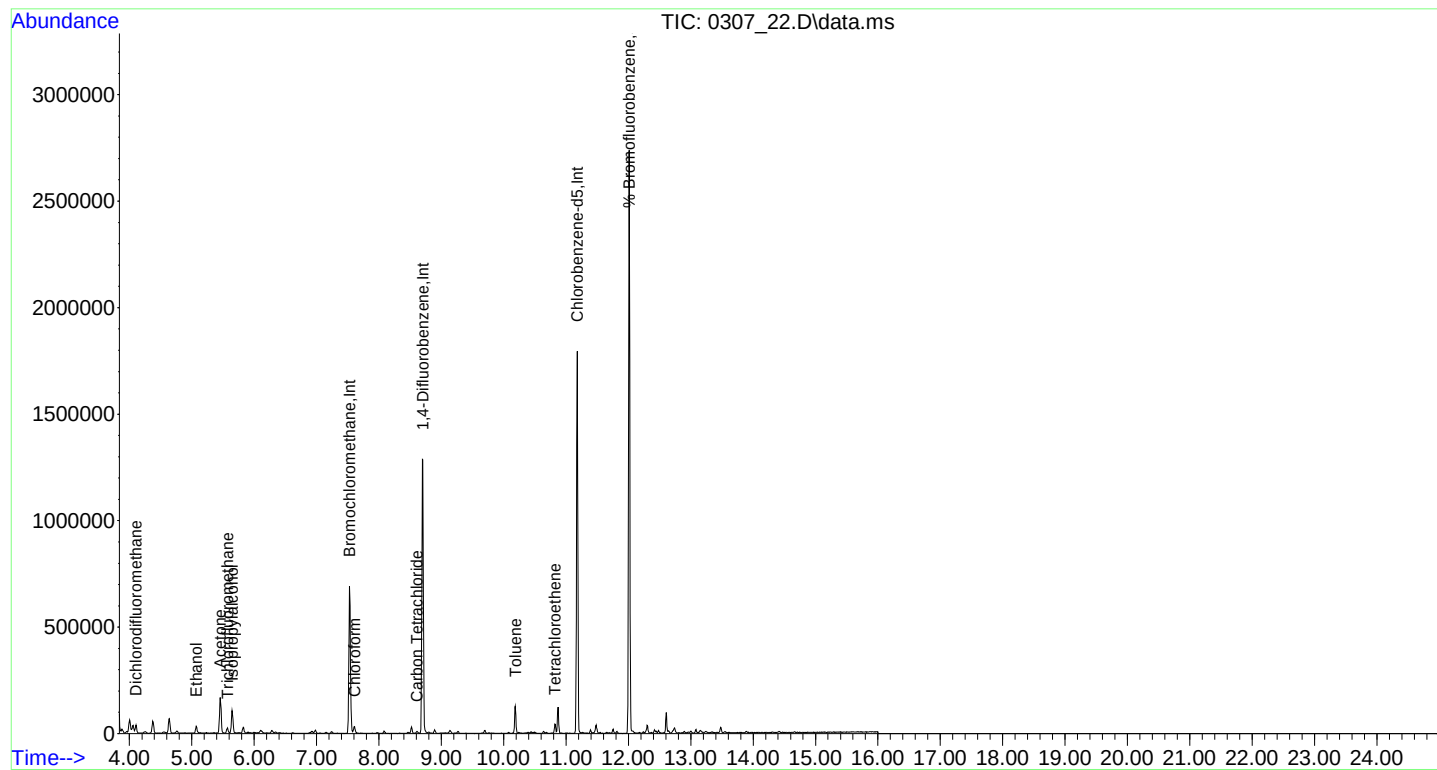
Quant Time: Mar 08 11:44:29 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

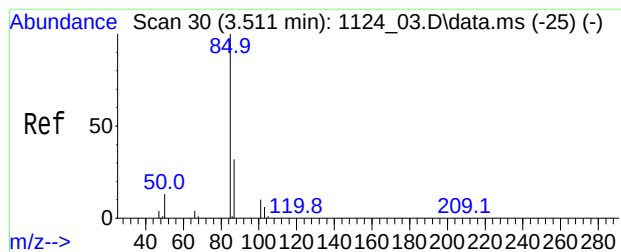
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	302616	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1093944	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	453065	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	290750	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1093944	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	453065	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	692117	10.327	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	=	103.30%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	36927	0.517	ppbv#	98
11) Ethanol	5.071	45	33182	6.205	ppbv	97
12) Acetone	5.455	43	152090	5.544	ppbv#	87
13) Trichlorofluoromethane	5.572	101	19140	0.252	ppbv	97
14) Isopropylalcohol	5.645	45	104943	3.264	ppbv	95
29) Chloroform	7.608	83	22684	0.381	ppbv	99
35) Carbon Tetrachloride	8.609	117	5106	0.073	ppbv	90
49) Toluene	10.188	91	85269	0.751	ppbv#	98
53) Tetrachloroethene	10.821	166	12636	0.171	ppbv	99
85] Trichlorofluoromethane...	5.568	101	19643	0.241	ppbv#	100
89] Carbon Tetrachloride(sim)	8.612	117	5389	0.074	ppbv	99
95] Chloroform(sim)	7.603	83	23029	0.330	ppbv	99
105] Tetrachloroethene(sim)	10.824	166	12065	0.163	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_22.D
Acq On : 8 Mar 2023 12:31 am
Operator :
Client ID : IA-4
Lab ID : CN54089
ALS Vial : 13 Sample Multiplier: 1

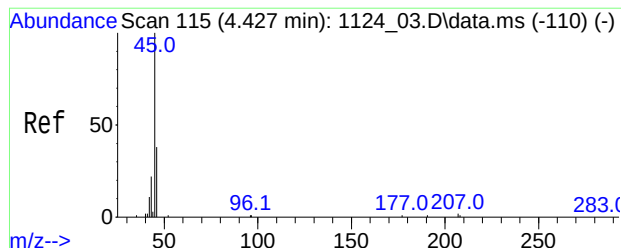
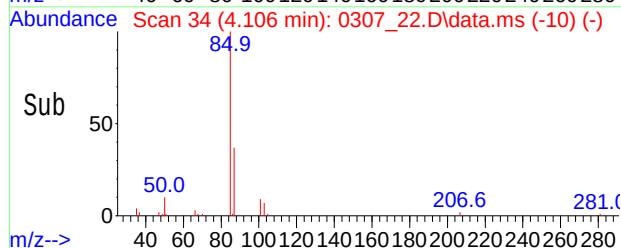
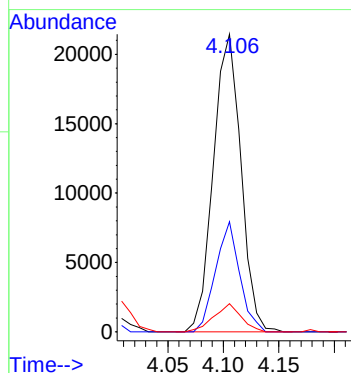
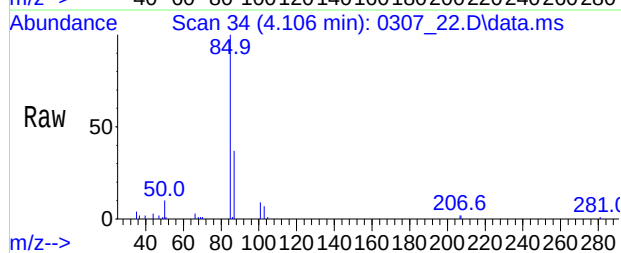
Quant Time: Mar 08 11:44:29 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





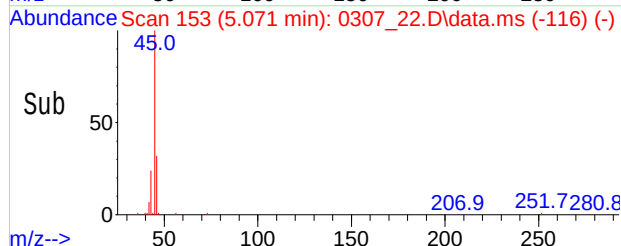
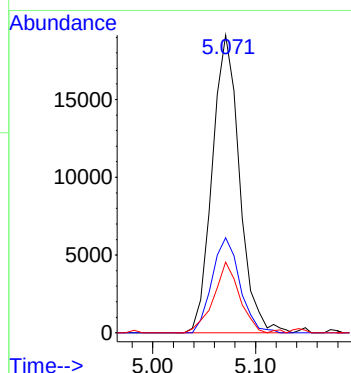
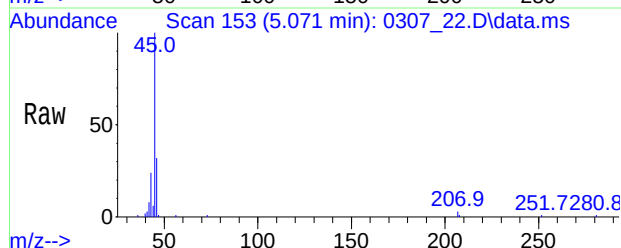
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.517 ppbv
 RT: 4.106 min Scan# 34
 Delta R.T. -0.008 min
 Lab File: 0307_22.D
 Acq: 8 Mar 2023 12:31 am

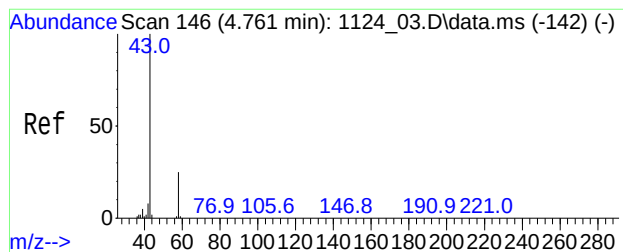
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.2	39.4
50	9.4	6.2	9.2#



#11
 Ethanol
 Conc: 8\$ 6.205 ppbv
 RT: 5.071 min Scan# 153
 Delta R.T. 0.000 min
 Lab File: 0307_22.D
 Acq: 8 Mar 2023 12:31 am

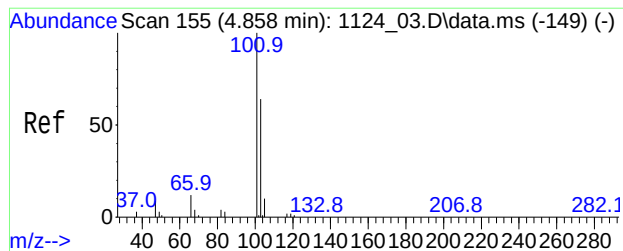
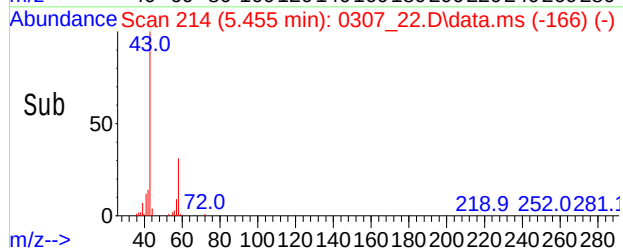
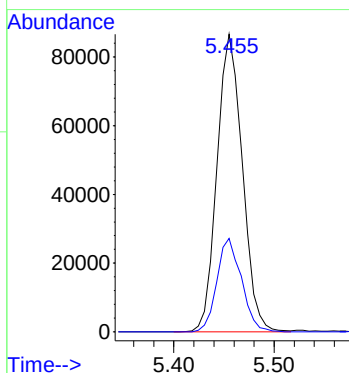
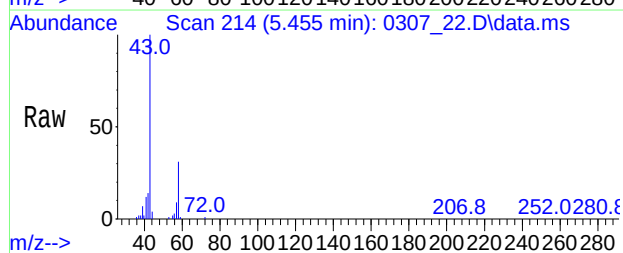
Tgt Ion	Ratio	Lower	Upper
45	100		
46	32.9	27.0	40.4
43	23.9	17.0	25.4





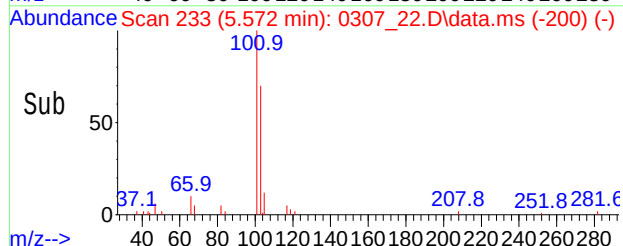
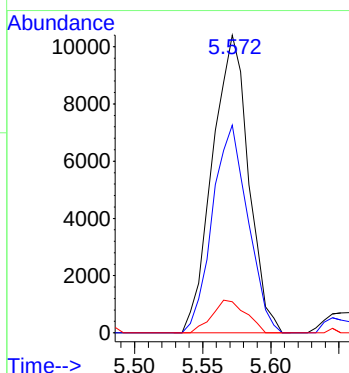
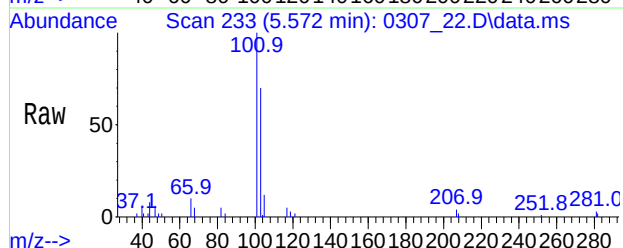
#12
Acetone
Conc: 8\$ 5.544 ppbv
RT: 5.455 min Scan# 214
Delta R.T. -0.006 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

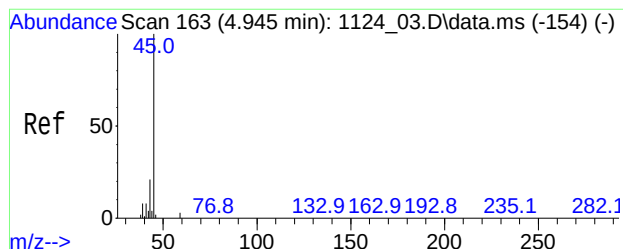
Tgt Ion: 43 Resp: 152090
Ion Ratio Lower Upper
43 100
58 30.4 30.8 46.2#



#13
Trichlorofluoromethane
Conc: 8\$ 0.252 ppbv
RT: 5.572 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

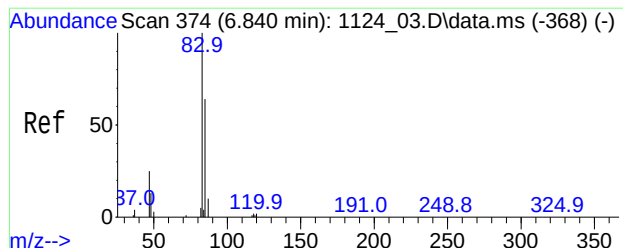
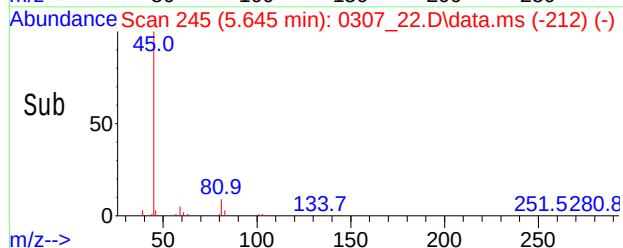
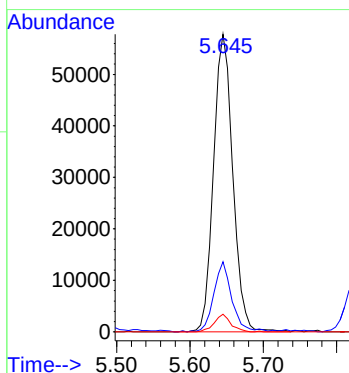
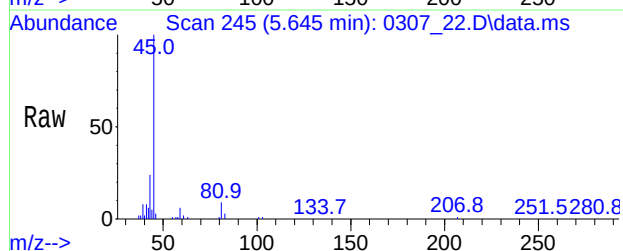
Tgt Ion: 101 Resp: 19140
Ion Ratio Lower Upper
101 100
103 68.4 52.9 79.3
66 10.3 7.3 10.9





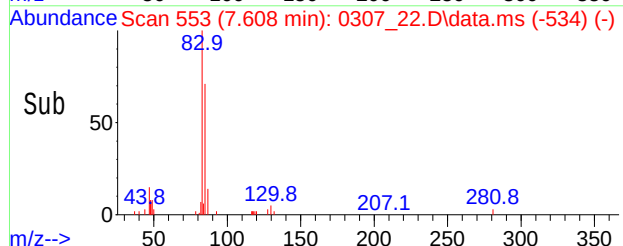
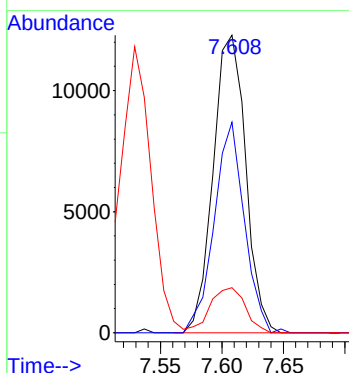
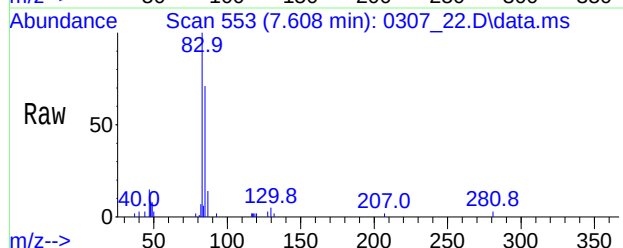
#14
Isopropylalcohol
Conc: 8\$ 3.264 ppbv
RT: 5.645 min Scan# 245
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

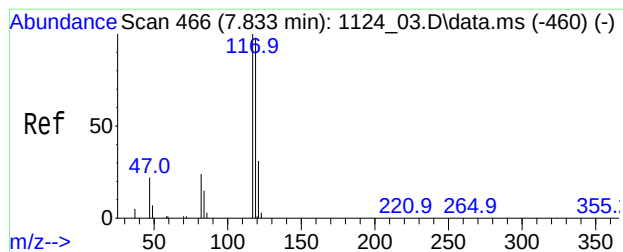
Tgt Ion	Ratio	Lower	Upper
45	100		
43	22.1	15.4	23.0
59	5.0	3.9	5.9



#29
Chloroform
Conc: 8\$ 0.381 ppbv
RT: 7.608 min Scan# 553
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

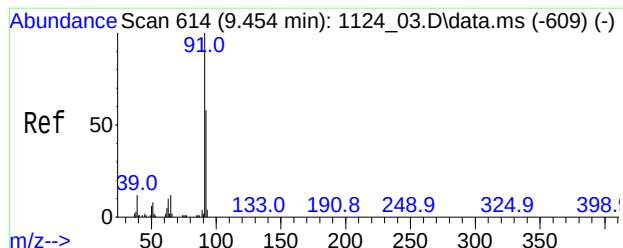
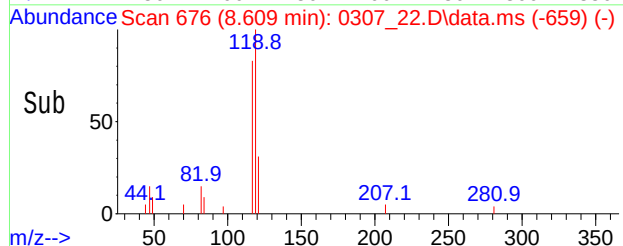
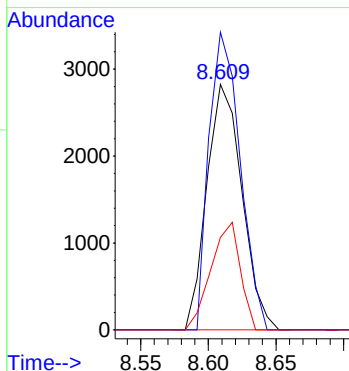
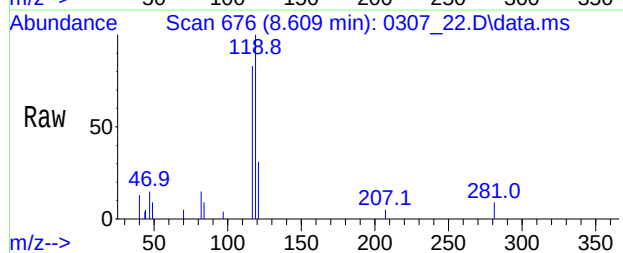
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.8	46.1	86.1
47	16.4	0.0	35.3





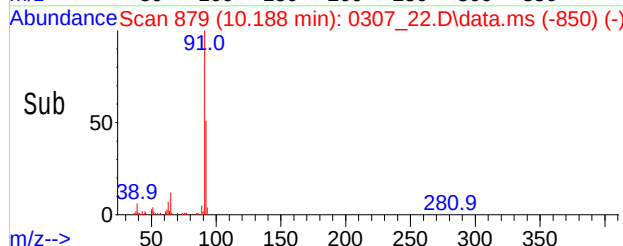
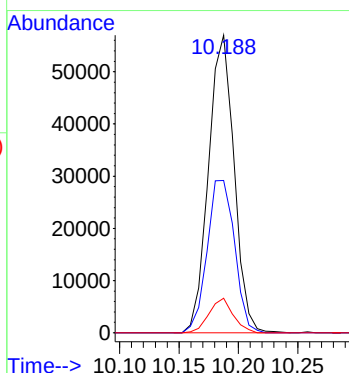
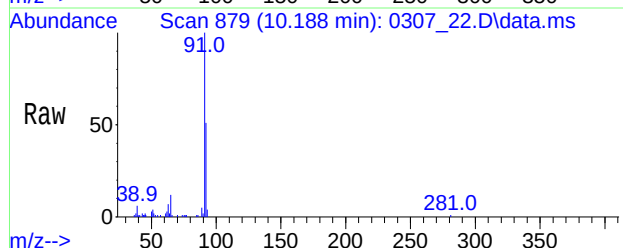
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

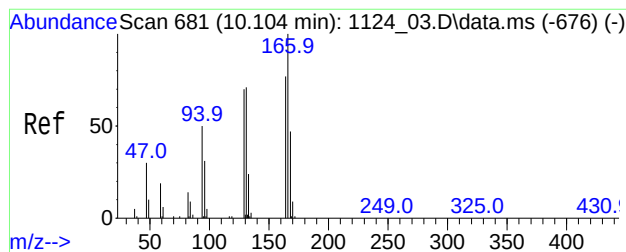
Tgt Ion	Ratio	Lower	Upper
117	100		
119	107.4	77.0	117.0
121	36.4	11.5	51.5



#49
Toluene
Conc: 8\$ 0.751 ppbv
RT: 10.188 min Scan# 879
Delta R.T. 0.007 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

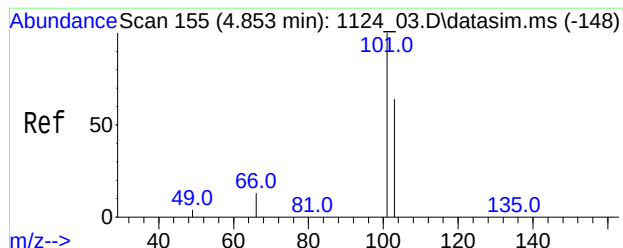
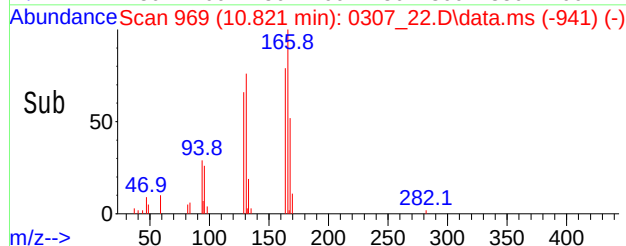
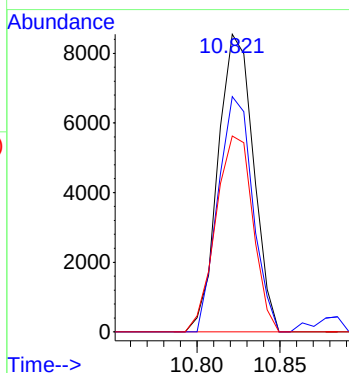
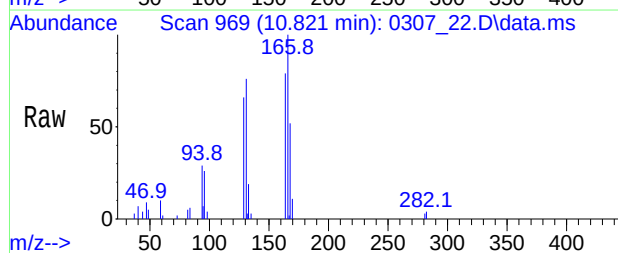
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.8	44.6	66.8
65	10.9	7.2	10.8#





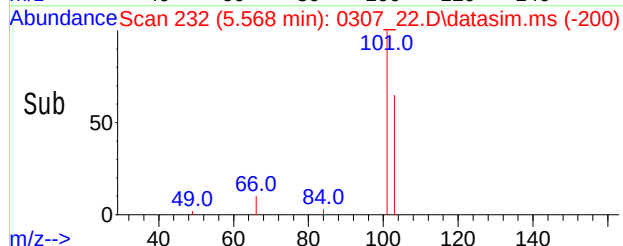
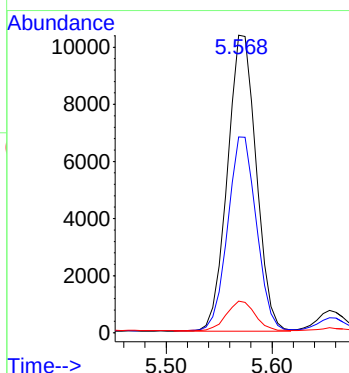
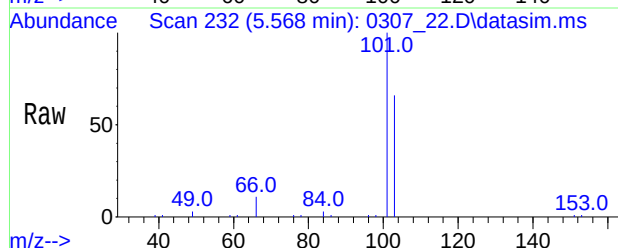
#53
Tetrachloroethene
Conc: 8\$ 0.171 ppbv
RT: 10.821 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

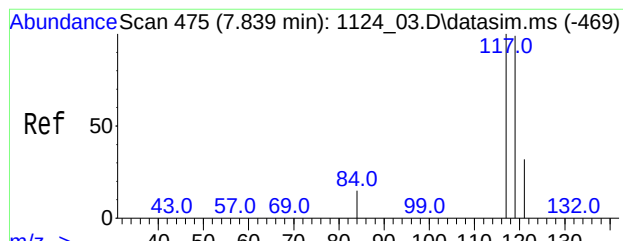
Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.5	62.3	93.5
129	69.2	54.7	82.1



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.241 ppbv
RT: 5.568 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

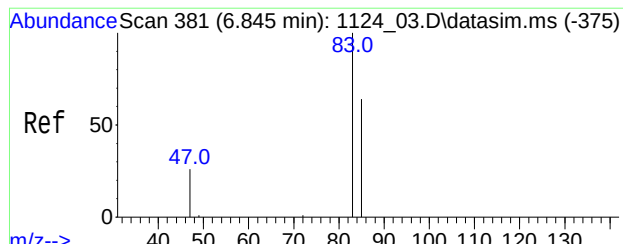
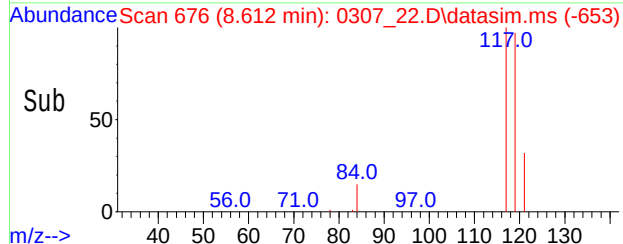
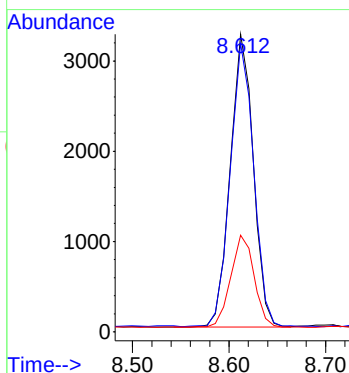
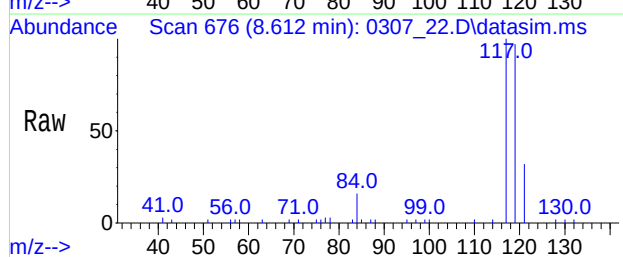
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.2	78.4
66	9.8	9.3	9.3#





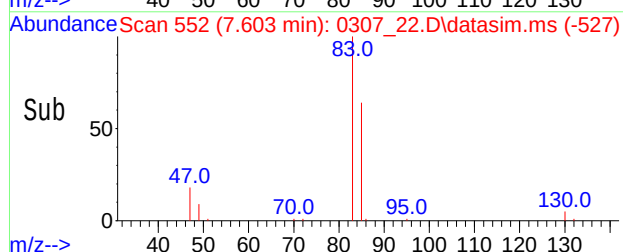
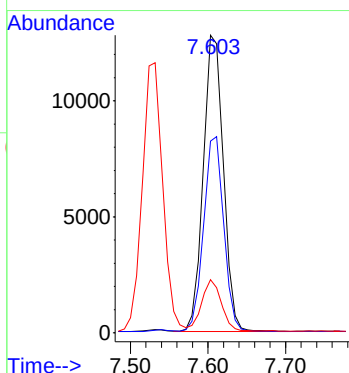
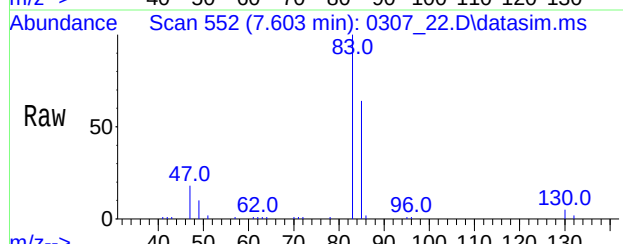
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.074 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

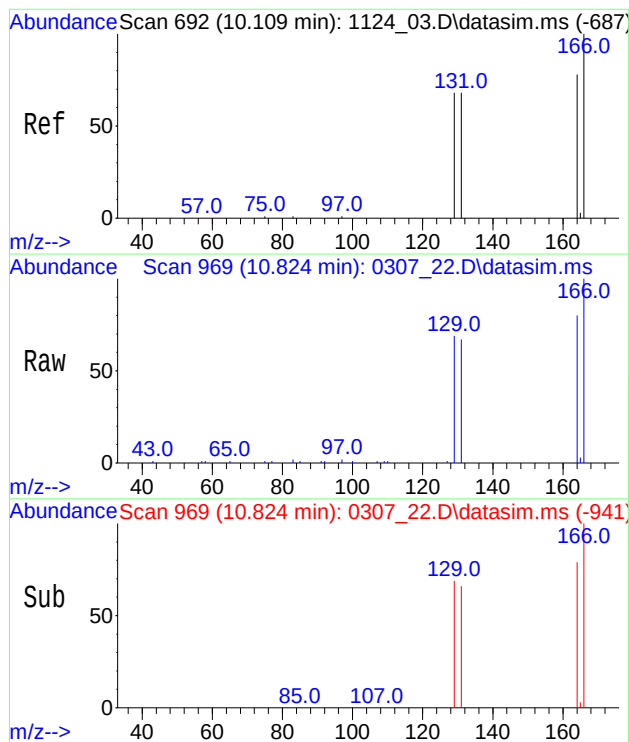
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5389		
119	98.4	77.7	116.5	
121	32.3	25.1	37.7	



#95
Chloroform(sim)
Conc: 8\$ 0.330 ppbv
RT: 7.603 min Scan# 552
Delta R.T. 0.000 min
Lab File: 0307_22.D
Acq: 8 Mar 2023 12:31 am

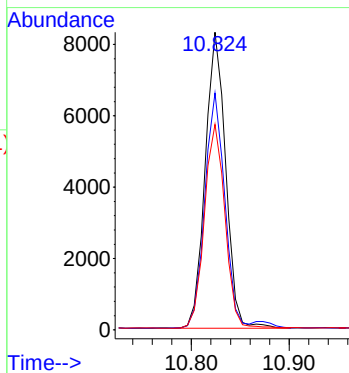
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	23029		
85	65.6	52.6	78.8	
47	16.9	12.6	18.8	





#105
 Tetrachloroethene(sim)
 Conc: 8\$ 0.163 ppbv
 RT: 10.824 min Scan# 969
 Delta R.T. 0.000 min
 Lab File: 0307_22.D
 Acq: 8 Mar 2023 12:31 am

Tgt Ion:	166	Resp:	12065
Ion Ratio	Lower	Upper	
166	100		
164	77.5	57.9	97.9
129	69.4	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54090

Canister: 23329 Lab File ID: 0307_23.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

Matrix: AIR Dilution Factor: 1

IA-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	240	ES	0.531	0.531	r
67-64-1	Acetone	35.3	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.254		0.178	0.178	r
67-63-0	Isopropylalcohol	5.98	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	0.568		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	0.947		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-1

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54090

Canister: 23329 Lab File ID: 0307_23.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

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)	0.072		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)	0.083		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_23.D
 Acq On : 8 Mar 2023 1:10 am
 Operator :
 Client ID : IA-1
 Lab ID : CN54090
 ALS Vial : 14 Sample Multiplier: 1

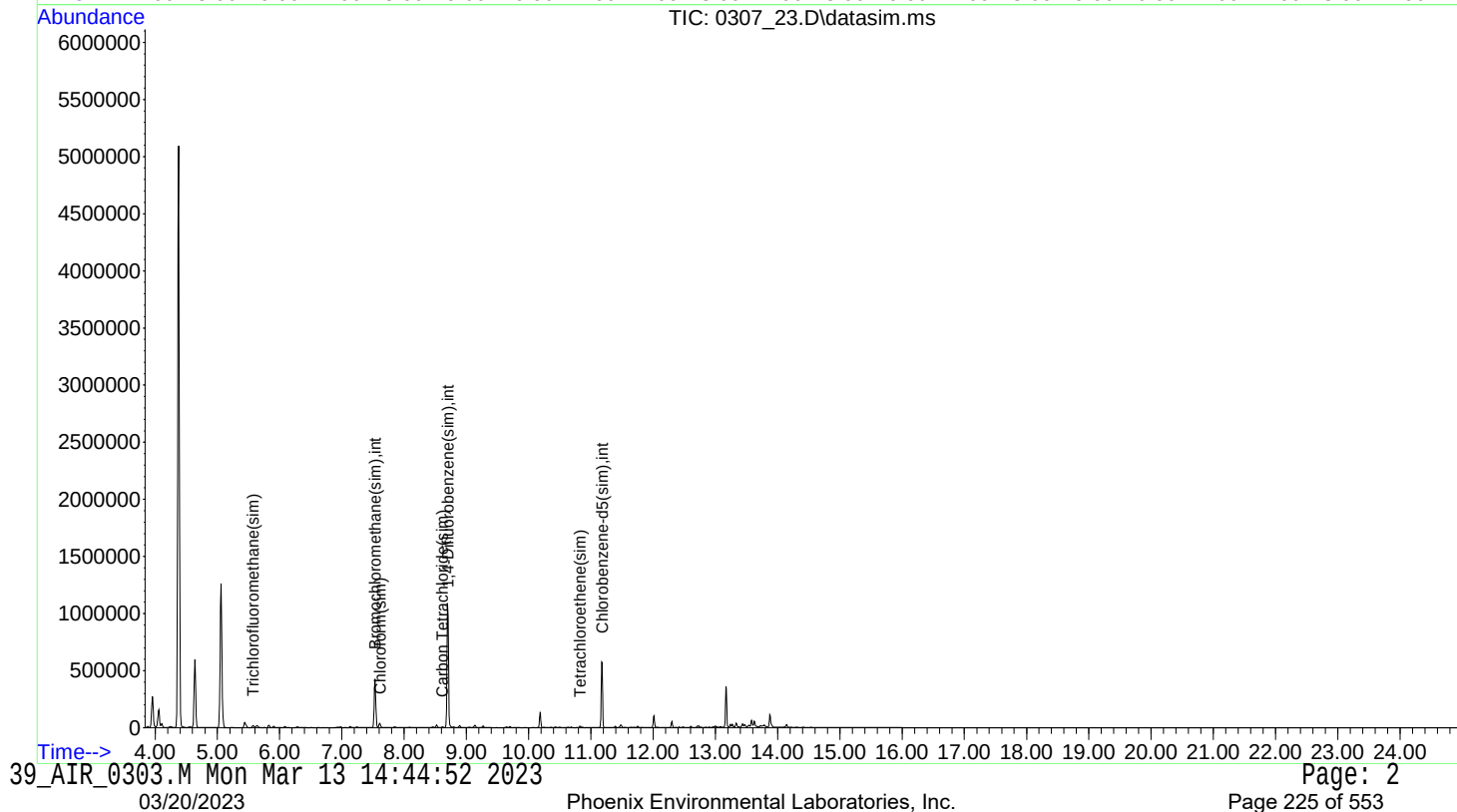
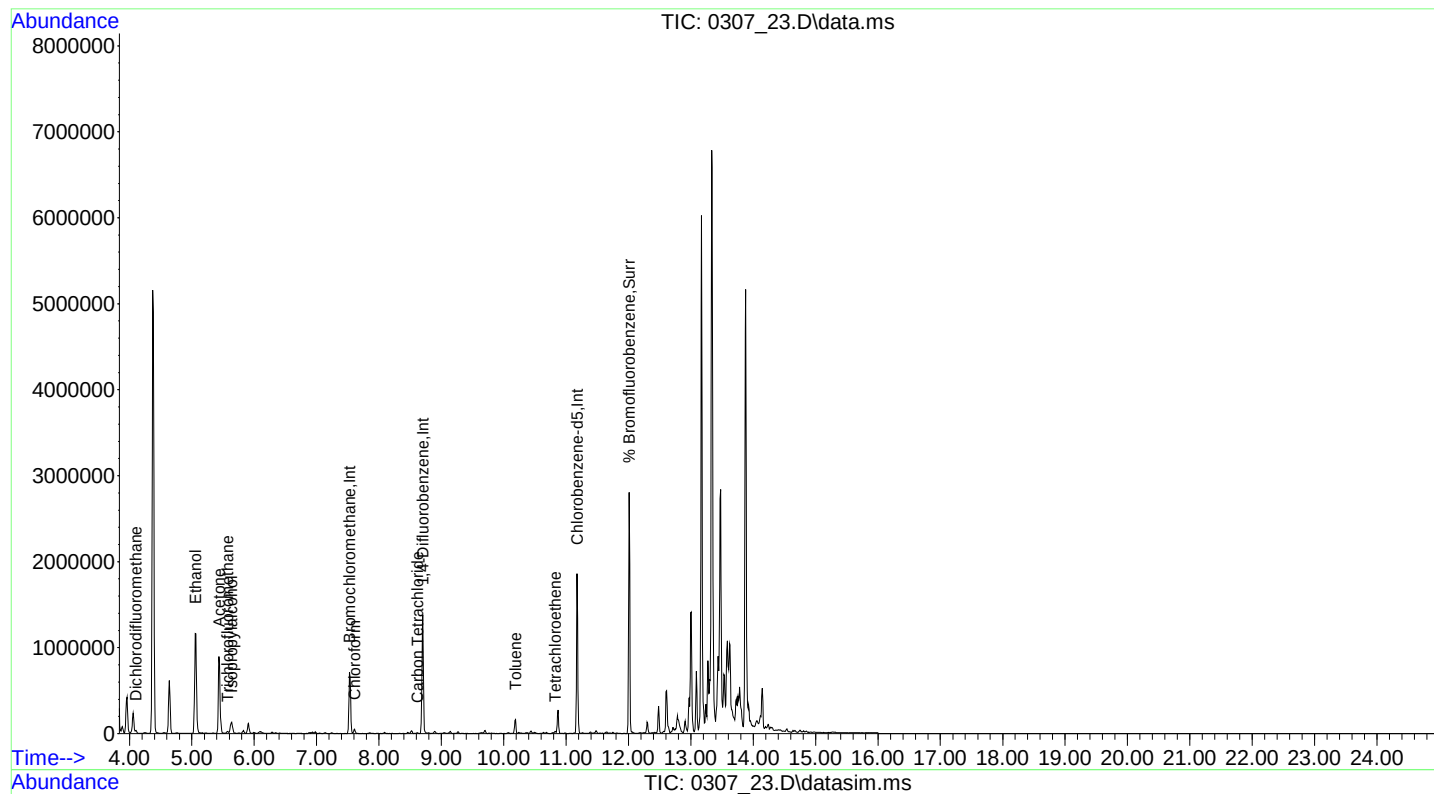
Quant Time: Mar 08 11:45:00 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

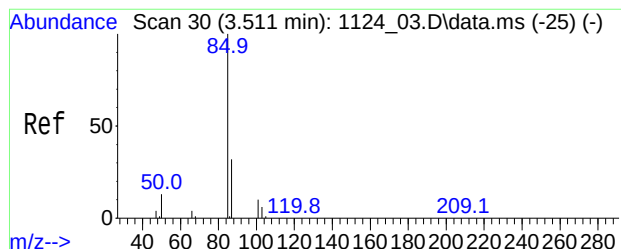
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	308463	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.703	114	1121121	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	459805	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	295633	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.703	114	1121121	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	460227	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	705226	10.369	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	= 103.70%	
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.106	85	34816	0.478	ppbv#	98
11) Ethanol	5.055	45	1309532	240.222	ppbv	98
12) Acetone	5.436	43	988145	35.336	ppbv	91
13) Trichlorofluoromethane	5.571	101	19615	0.254	ppbv	97
14) Isopropylalcohol	5.639	45	196088	5.984	ppbv	98
16) 1,1-Dichloroethene	6.001	61	1800	0.049	ppbv#	17
29) Chloroform	7.608	83	34533	0.568	ppbv	99
35) Carbon Tetrachloride	8.617	117	5872	0.082	ppbv	95
49) Toluene	10.187	91	110145	0.947	ppbv	98
53) Tetrachloroethene	10.820	166	6827	0.090	ppbv	93
85] Trichlorofluoromethane...	5.574	101	19942	0.240	ppbv#	100
89] Carbon Tetrachloride(sim)	8.611	117	5359	0.072	ppbv	99
95] Chloroform(sim)	7.611	83	34450	0.486	ppbv	99
105] Tetrachloroethene(sim)	10.823	166	6299	0.083	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_23.D
Acq On : 8 Mar 2023 1:10 am
Operator :
Client ID : IA-1
Lab ID : CN54090
ALS Vial : 14 Sample Multiplier: 1

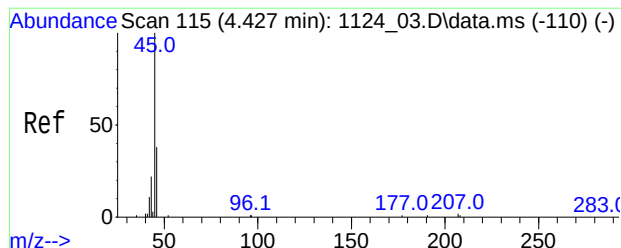
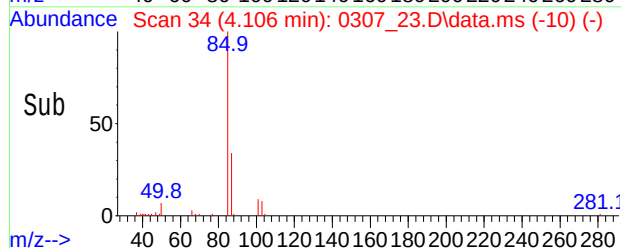
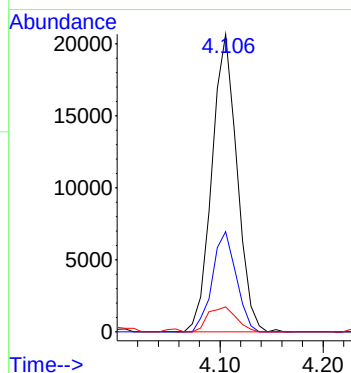
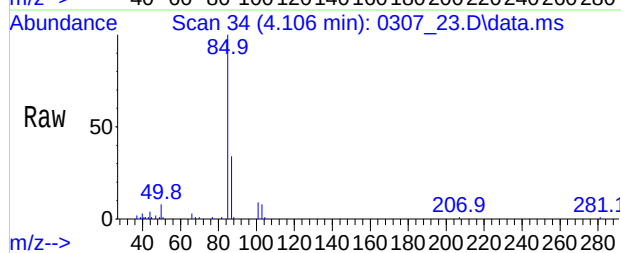
Quant Time: Mar 08 11:45:00 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





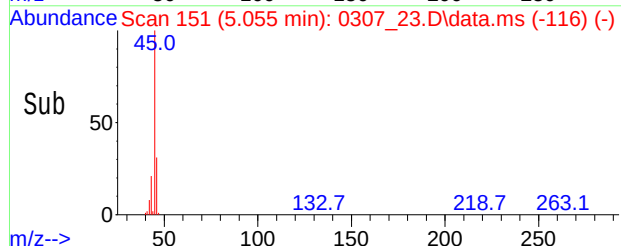
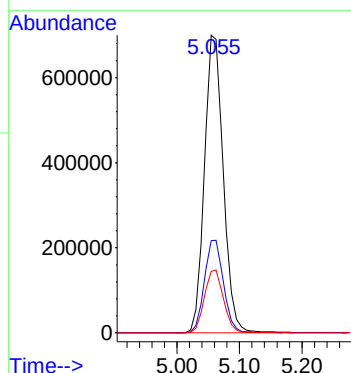
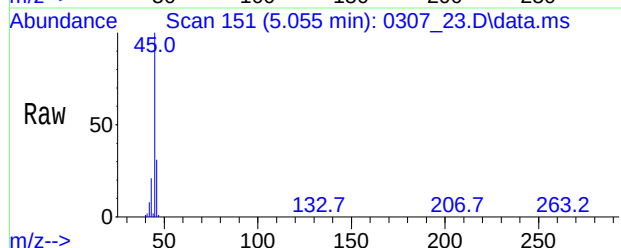
#3
Dichlorodifluoromethane
Conc: 8\$ 0.478 ppbv
RT: 4.106 min Scan# 34
Delta R.T. -0.008 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

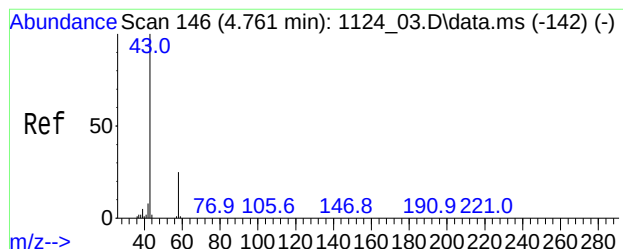
Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.0	26.2	39.4
50	9.5	6.2	9.2#



#11
Ethanol
Conc: 8\$ 240.222 ppbv
RT: 5.055 min Scan# 151
Delta R.T. -0.016 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

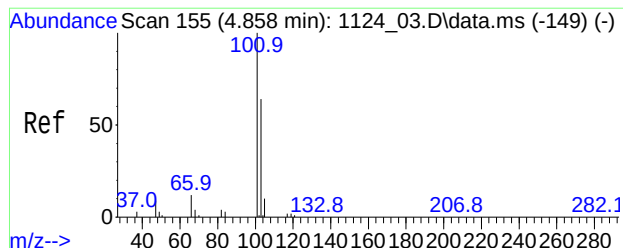
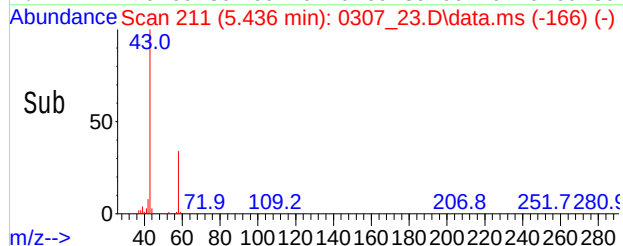
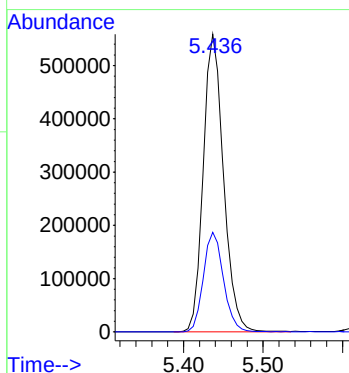
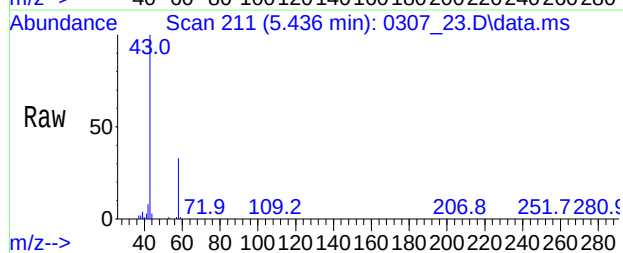
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.1	27.0	40.4
43	22.8	17.0	25.4





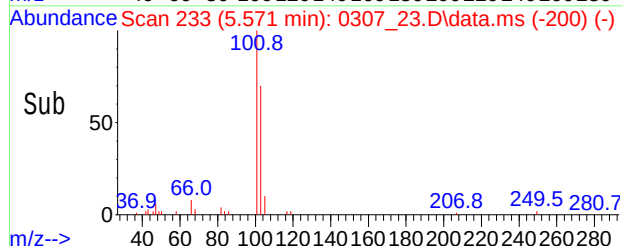
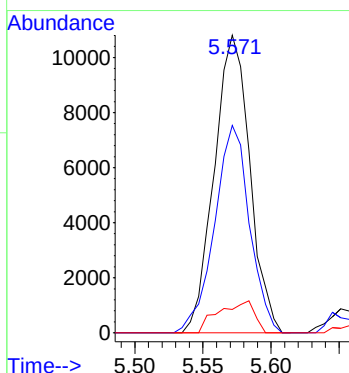
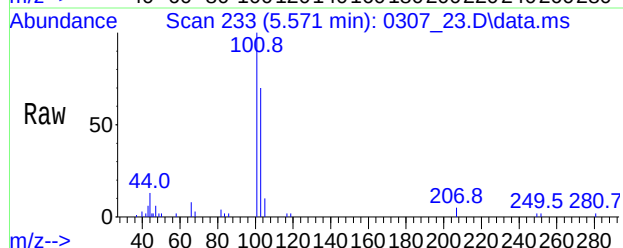
#12
Acetone
Conc: 8\$ 35.336 ppbv
RT: 5.436 min Scan# 211
Delta R.T. -0.025 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

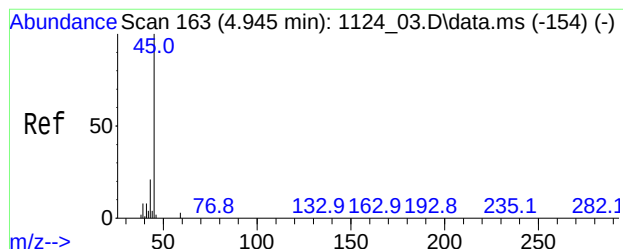
Tgt Ion: 43 Resp: 988145
Ion Ratio Lower Upper
43 100
58 33.2 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.254 ppbv
RT: 5.571 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

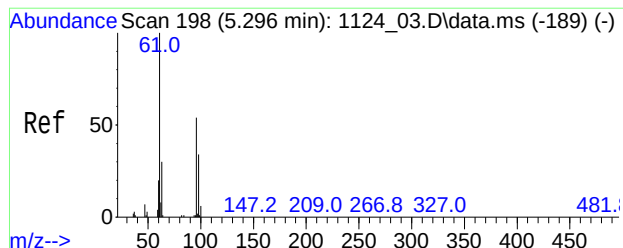
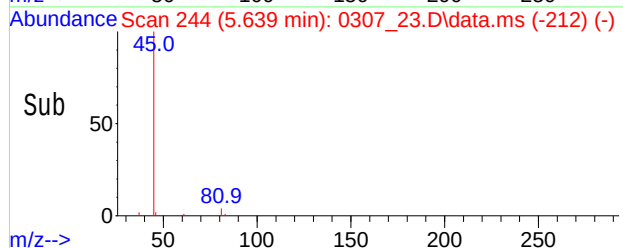
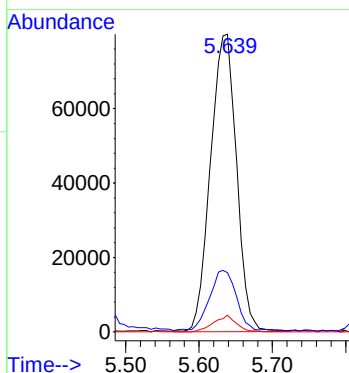
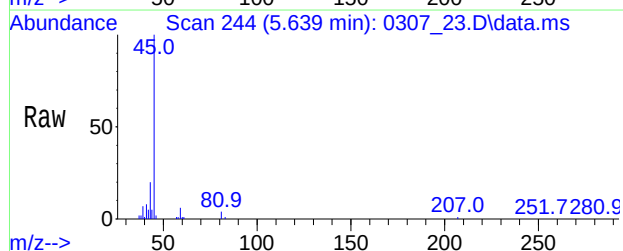
Tgt Ion: 101 Resp: 19615
Ion Ratio Lower Upper
101 100
103 68.6 52.9 79.3
66 10.7 7.3 10.9





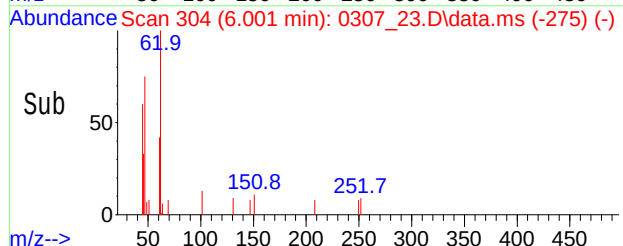
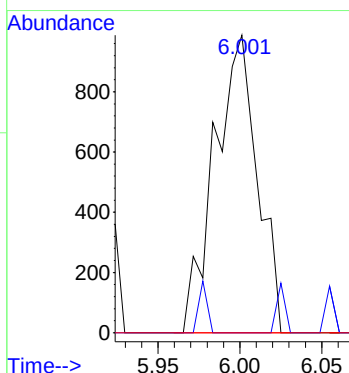
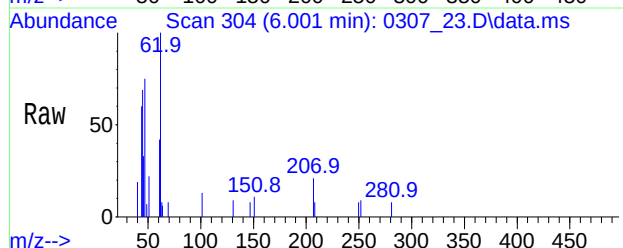
#14
Isopropylalcohol
Conc: 8\$ 5.984 ppbv
RT: 5.639 min Scan# 244
Delta R.T. -0.006 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

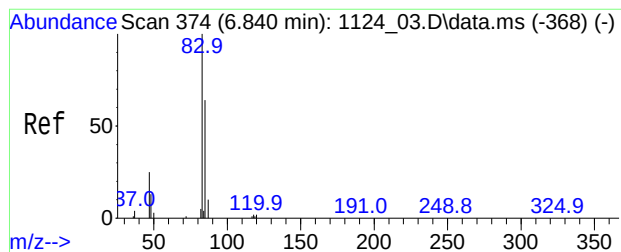
Tgt Ion: 45 Resp: 196088
Ion Ratio Lower Upper
45 100
43 20.5 15.4 23.0
59 4.8 3.9 5.9



#16
1,1-Dichloroethene
Conc: 8\$ Below Cal
RT: 6.001 min Scan# 304
Delta R.T. -0.030 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

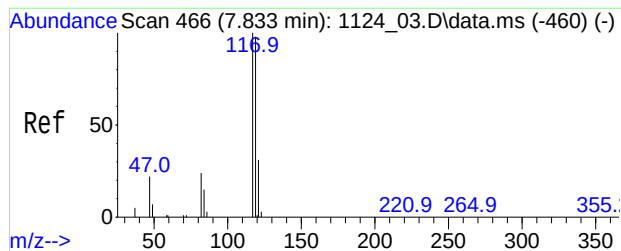
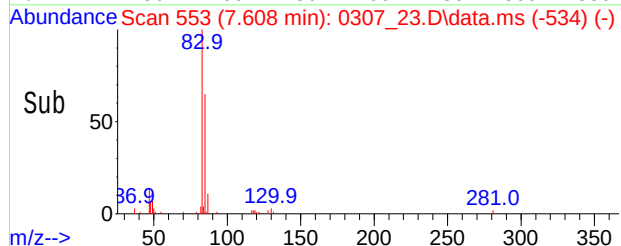
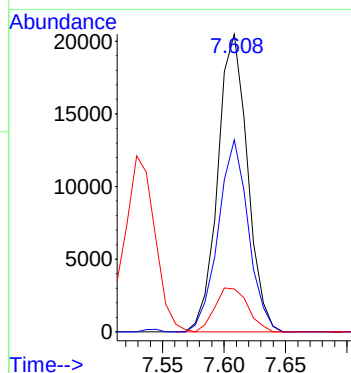
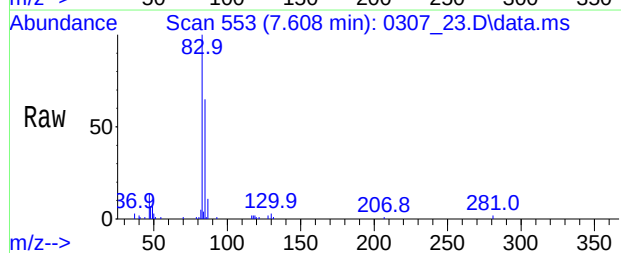
Tgt Ion: 61 Resp: 1800
Ion Ratio Lower Upper
61 100
96 3.3 65.4 98.0#
98 0.0 42.2 63.2#





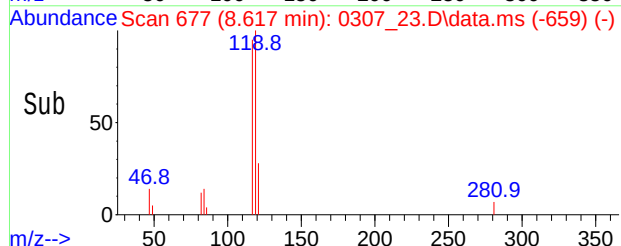
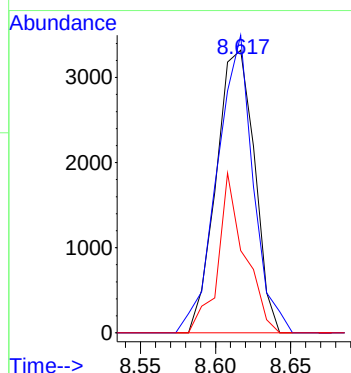
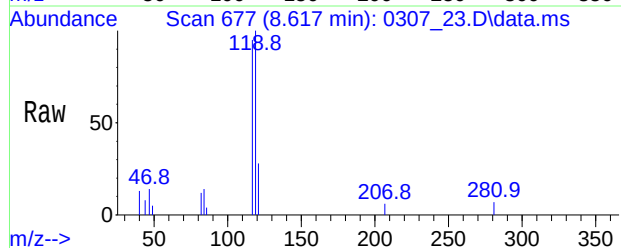
#29
Chloroform
Conc: 8\$ 0.568 ppbv
RT: 7.608 min Scan# 553
Delta R.T. 0.000 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

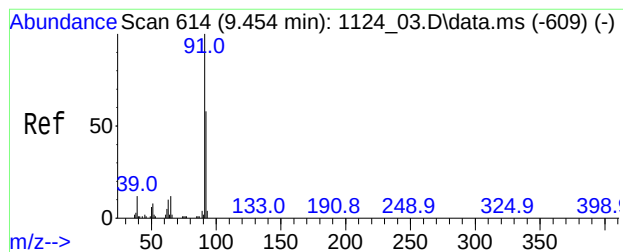
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.5	46.1	86.1
47	16.3	0.0	35.3



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.617 min Scan# 677
Delta R.T. 0.008 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

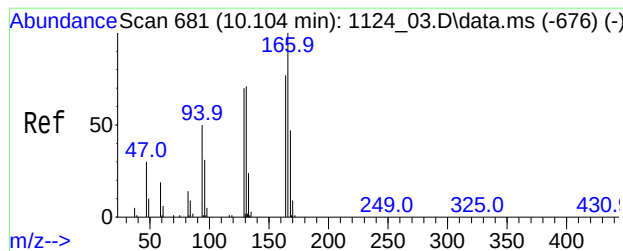
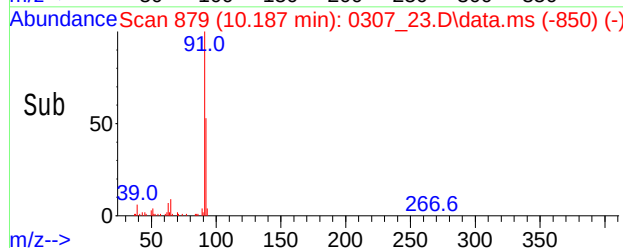
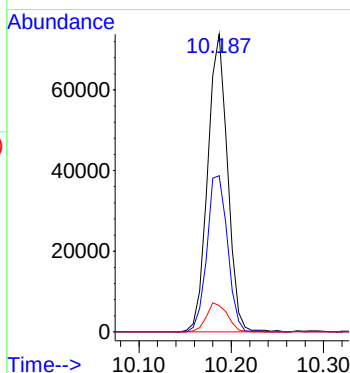
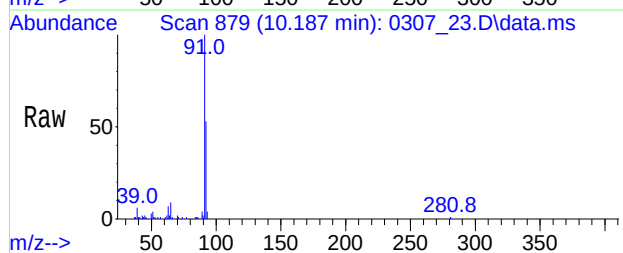
Tgt Ion	Ratio	Lower	Upper
117	100		
119	99.1	77.0	117.0
121	39.5	11.5	51.5





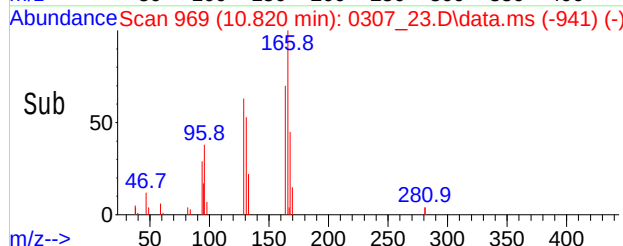
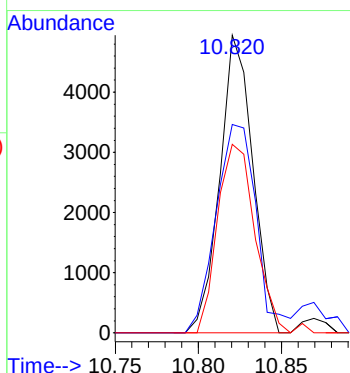
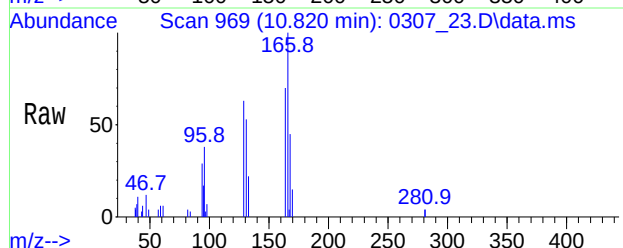
#49
Toluene
Conc: 8\$ 0.947 ppbv
RT: 10.187 min Scan# 879
Delta R.T. 0.006 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

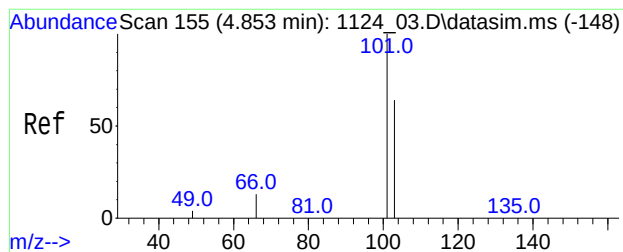
Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.5	44.6	66.8
65	10.2	7.2	10.8



#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.820 min Scan# 969
Delta R.T. -0.001 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

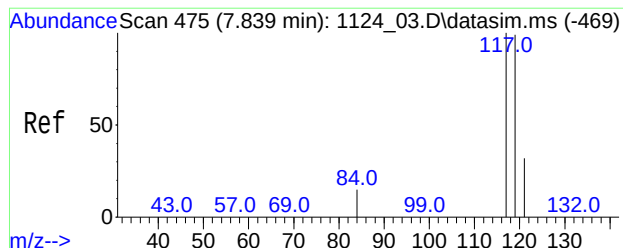
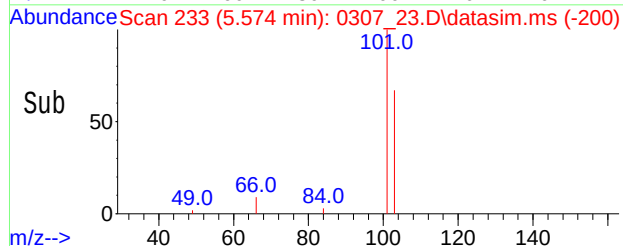
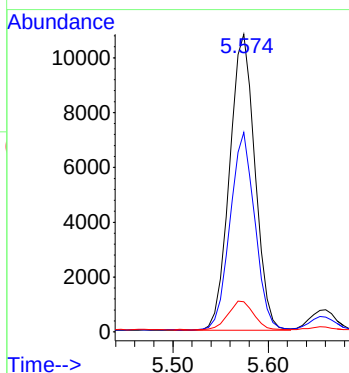
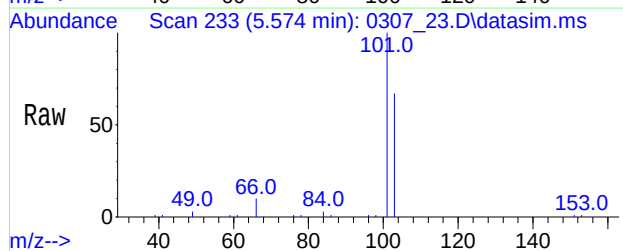
Tgt Ion	Ratio	Lower	Upper
166	100		
164	85.7	62.3	93.5
129	72.4	54.7	82.1





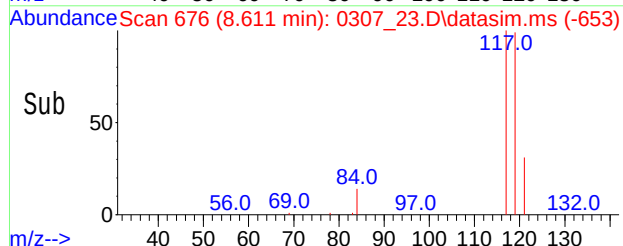
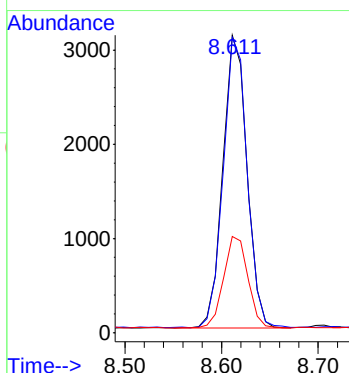
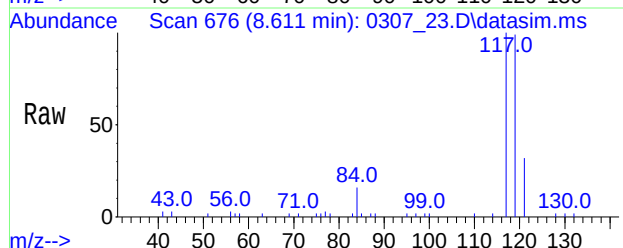
#85
 Trichlorofluoromethane(sim)
 Conc: 8\$ 0.240 ppbv
 RT: 5.574 min Scan# 233
 Delta R.T. 0.000 min
 Lab File: 0307_23.D
 Acq: 8 Mar 2023 1:10 am

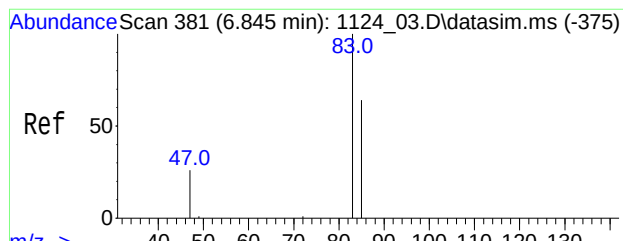
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19942		
103	65.2	52.2	78.4	
66	9.8	9.3	9.3#	



#89
 Carbon Tetrachloride(sim)
 Conc: 8\$ 0.072 ppbv
 RT: 8.611 min Scan# 676
 Delta R.T. -0.001 min
 Lab File: 0307_23.D
 Acq: 8 Mar 2023 1:10 am

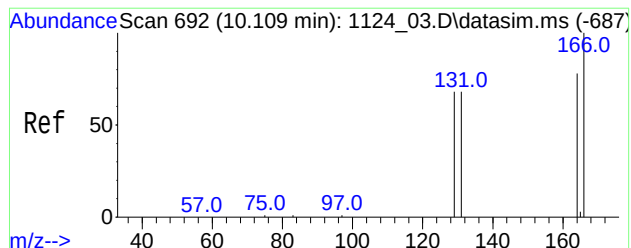
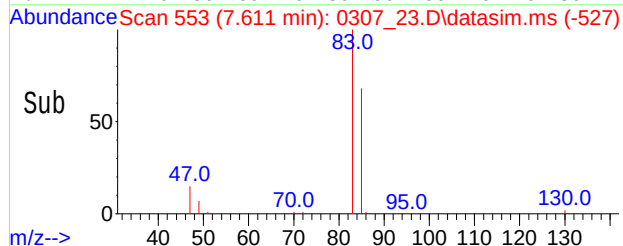
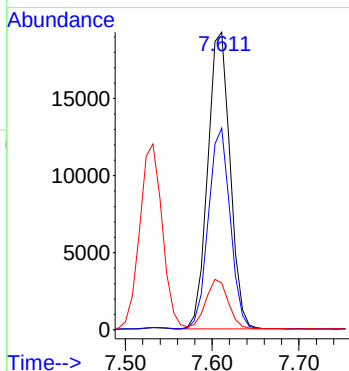
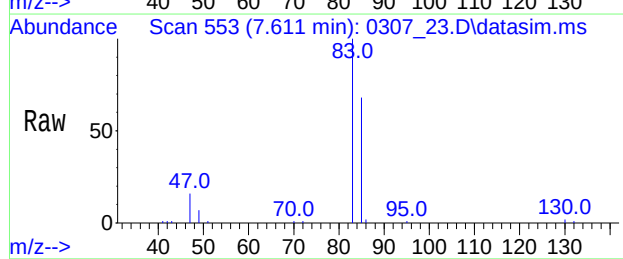
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5359		
119	98.5	77.7	116.5	
121	31.9	25.1	37.7	





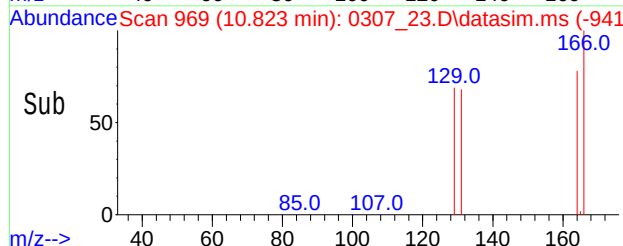
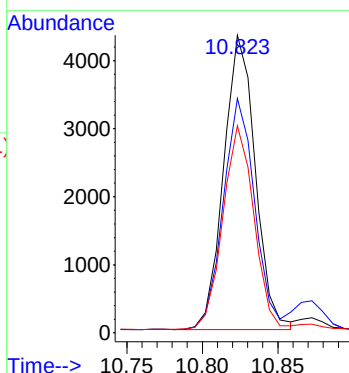
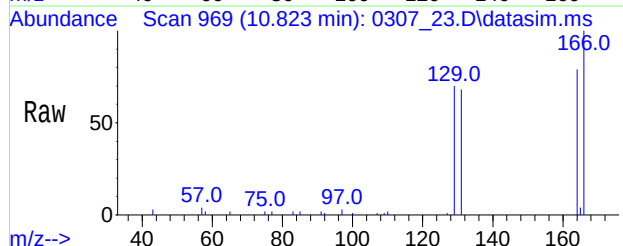
#95
Chloroform(sim)
Conc: 8\$ 0.486 ppbv
RT: 7.611 min Scan# 553
Delta R.T. 0.008 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.6	78.8
47	16.9	12.6	18.8



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.083 ppbv
RT: 10.823 min Scan# 969
Delta R.T. -0.001 min
Lab File: 0307_23.D
Acq: 8 Mar 2023 1:10 am

Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.2	57.9	97.9
129	67.7	50.0	90.0



1
AIR ANALYSIS DATA SHEET

CLIENT ID

VP-1

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CN54091
Canister:	23335	Lab File ID:	0308_12.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
		Date Received:	03/07/23
Purge Volume	200 (cc)	Date Analyzed:	03/08/23
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	0.476		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	329	ES	0.531	0.531	r
67-64-1	Acetone	25.4	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.246		0.178	0.178	r
67-63-0	Isopropylalcohol	5.08	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	0.554		0.339	0.339	r
110-54-3	Hexane	0.284	U	0.284	0.284	r
67-66-3	Chloroform	1.32		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	1.49		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

VP-1

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54091

Canister: 23335 Lab File ID: 0308_12.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

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)	0.073		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
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)	0.134		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)	0.235		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_12.D
 Acq On : 8 Mar 2023 5:55 pm
 Operator :
 Client ID : VP-1
 Lab ID : CN54091
 ALS Vial : 37 Sample Multiplier: 1

Quant Time: Mar 09 09:29:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

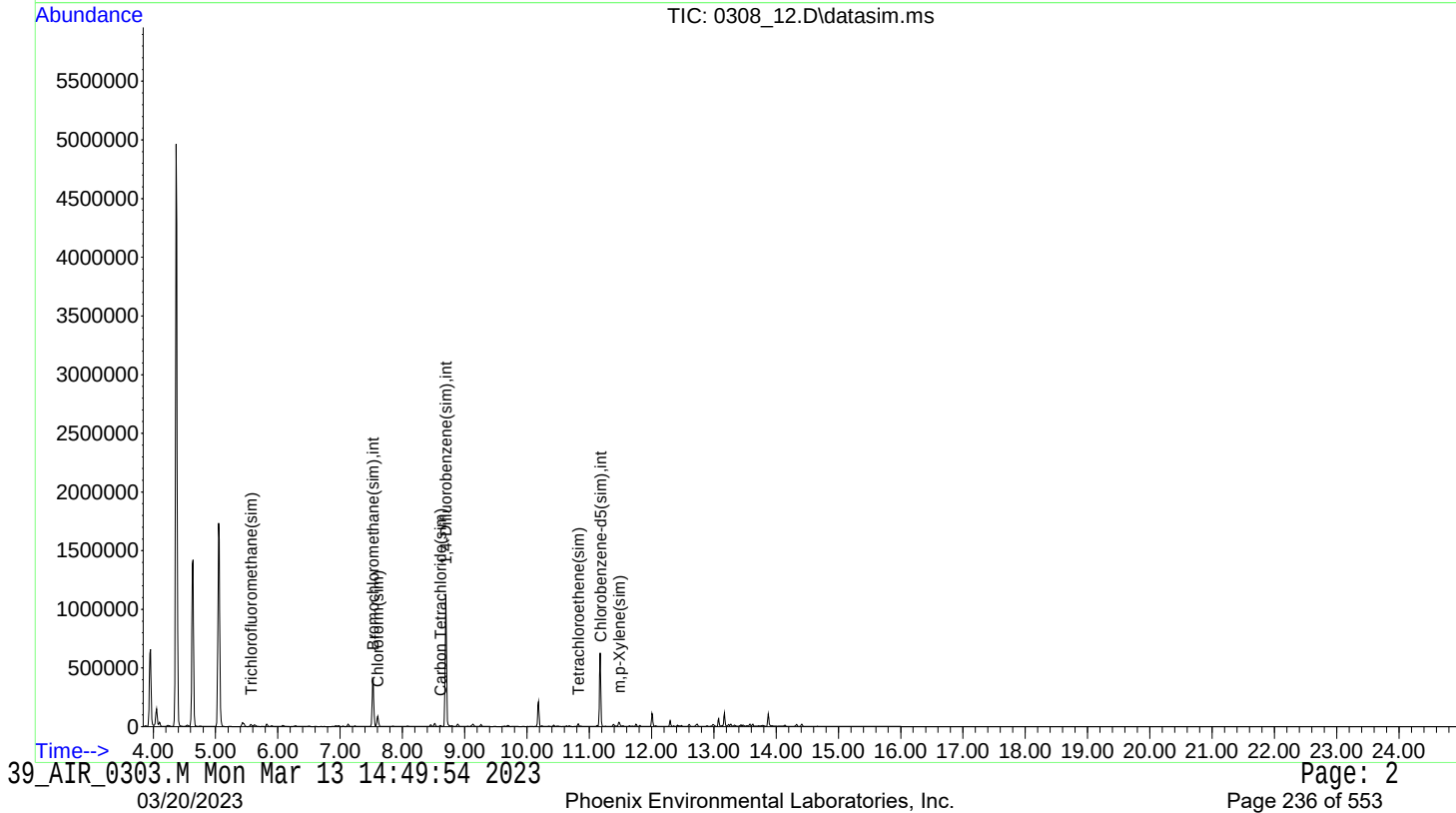
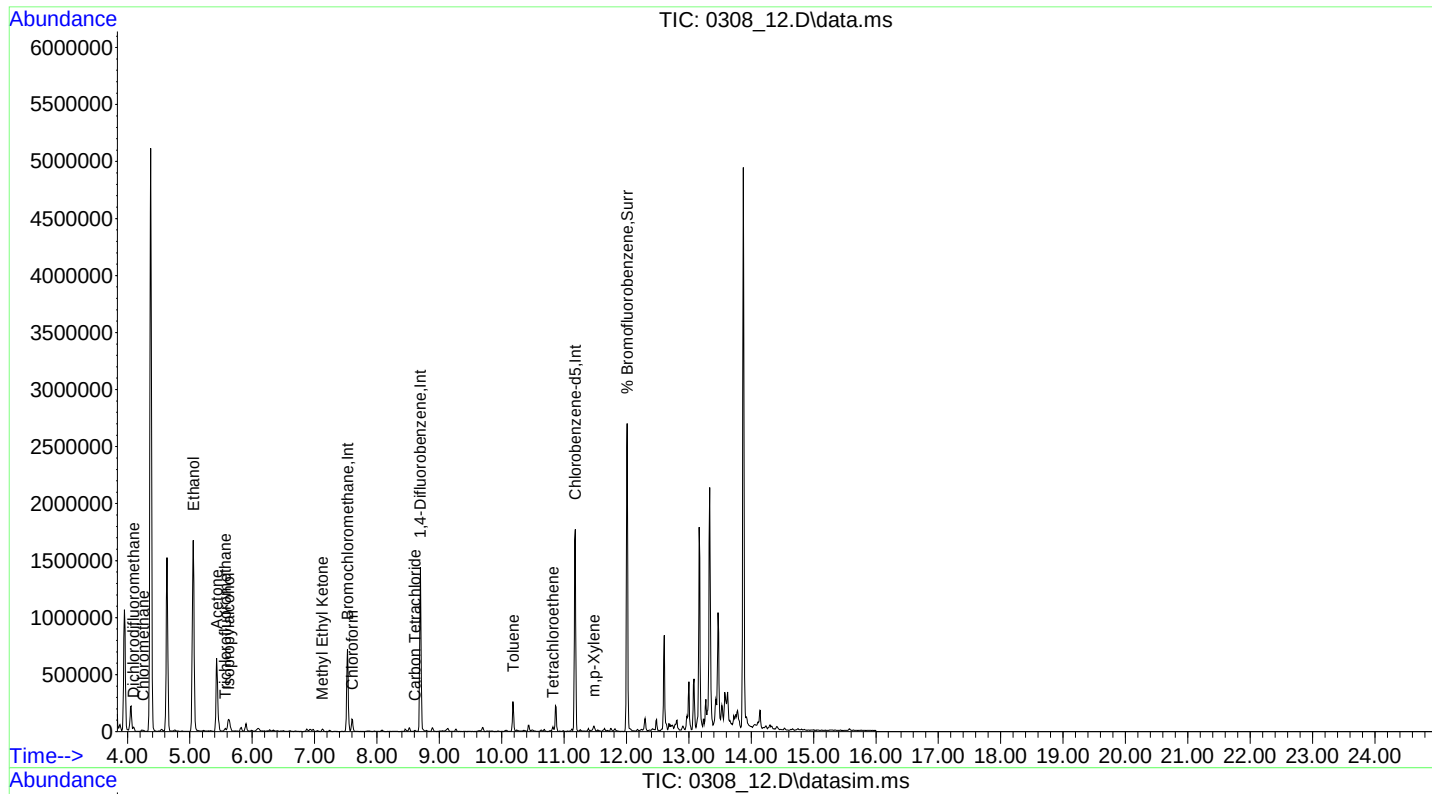
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	305614	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1117135	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	465874	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	294884	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1117135	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	466561	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	716897	10.403	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.00%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	4.097	85	34304	0.475	ppbv#	97
4) Chloromethane	4.252	50	8618	0.492	ppbv	92
11) Ethanol	5.055	45	1776791	328.975	ppbv	98
12) Acetone	5.430	43	703657	25.397	ppbv	91
13) Trichlorofluoromethane	5.565	101	18825	0.246	ppbv	97
14) Isopropylalcohol	5.621	45	165024	5.083	ppbv	96
26) Methyl Ethyl Ketone	7.125	43	20931	0.554	ppbv	99
29) Chloroform	7.600	83	79315	1.317	ppbv	98
35) Carbon Tetrachloride	8.609	117	5528	0.078	ppbv	99
49) Toluene	10.181	91	172352	1.486	ppbv	98
53) Tetrachloroethene	10.821	166	10550	0.140	ppbv	95
58) m,p-Xylene	11.481	91	26957	0.247	ppbv	93
85) Trichlorofluoromethane...	5.568	101	19475	0.235	ppbv#	99
89) Carbon Tetrachloride(sim)	8.612	117	5370	0.072	ppbv	98
95) Chloroform(sim)	7.603	83	79650	1.126	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	10168	0.134	ppbv	99
108) m,p-Xylene(sim)	11.481	91	26957	0.235	ppbv	93

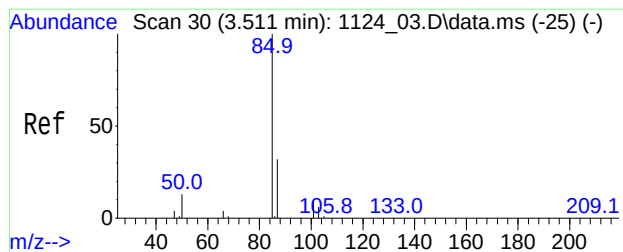
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(QT Reviewed)

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Data File : 0308_12.D  
Acq On : 8 Mar 2023 5:55 pm  
Operator :  
Client ID : VP-1  
Lab ID : CN54091  
ALS Vial : 37 Sample Multiplier: 1
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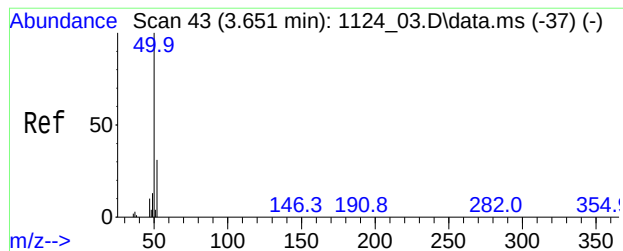
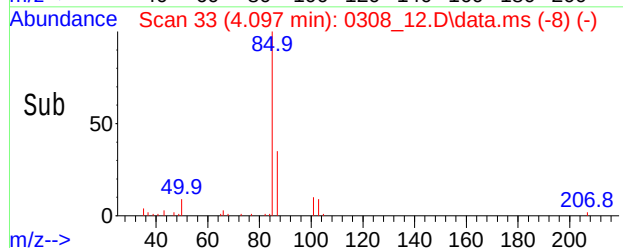
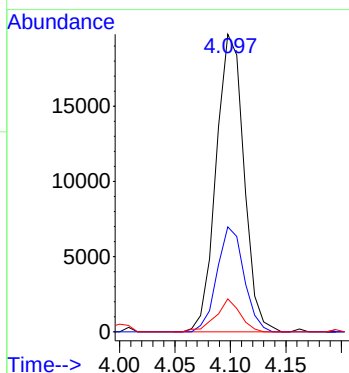
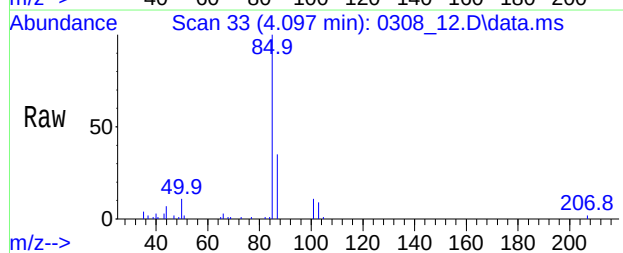
Quant Time: Mar 09 09:29:53 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





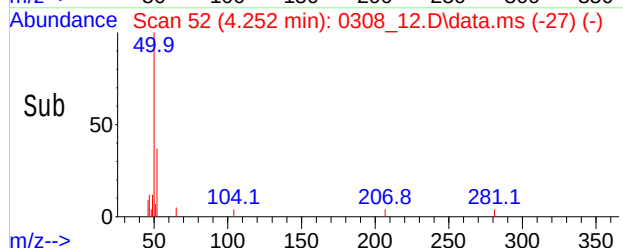
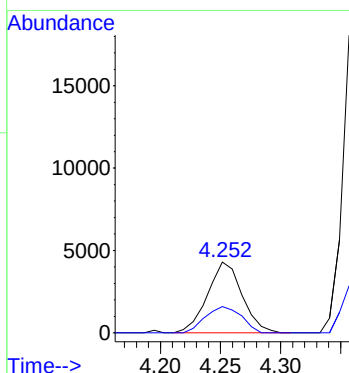
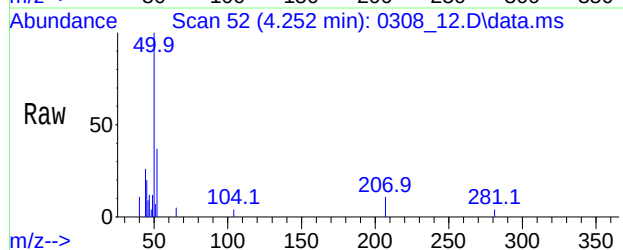
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.475 ppbv
 RT: 4.097 min Scan# 33
 Delta R.T. 0.000 min
 Lab File: 0308_12.D
 Acq: 8 Mar 2023 5:55 pm

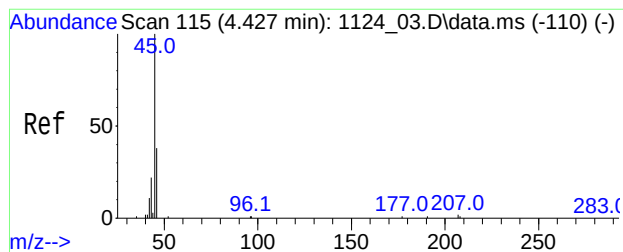
Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.3	26.2	39.4
50	9.7	6.2	9.2#



#4
 Chloromethane
 Conc: 8\$ 0.492 ppbv
 RT: 4.252 min Scan# 52
 Delta R.T. 0.000 min
 Lab File: 0308_12.D
 Acq: 8 Mar 2023 5:55 pm

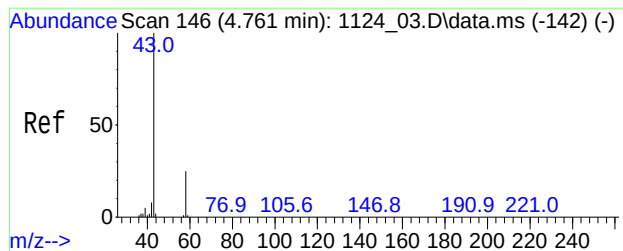
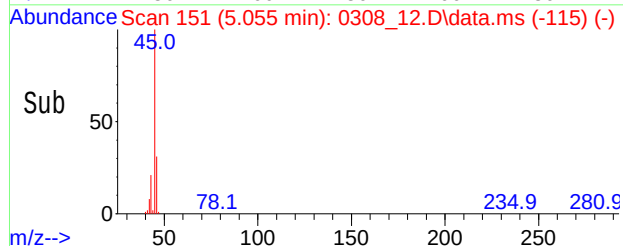
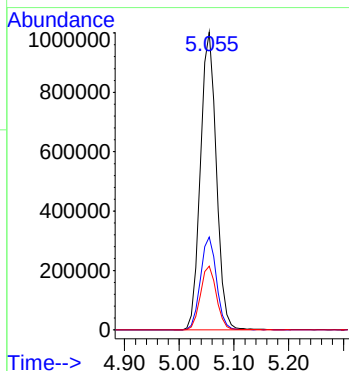
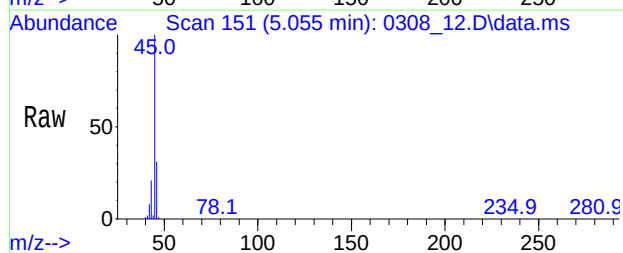
Tgt Ion	Ratio	Lower	Upper
50	100		
52	38.5	13.8	53.8





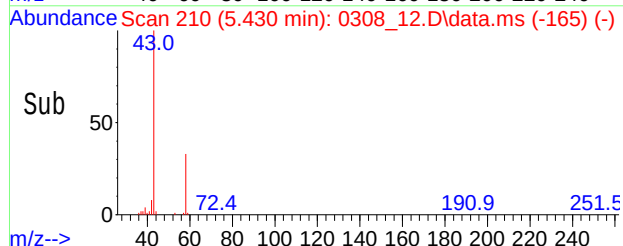
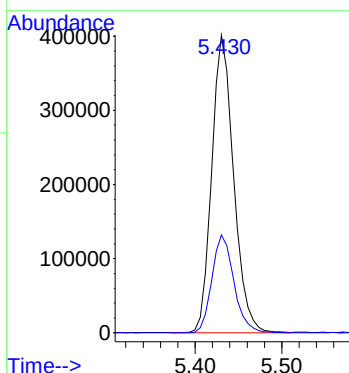
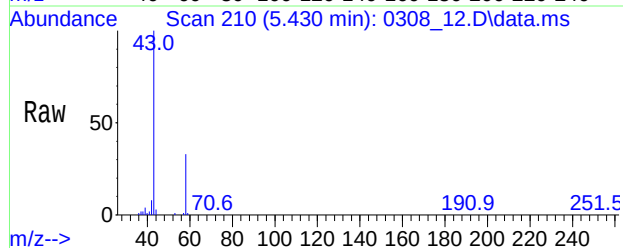
#11
Ethanol
Conc: 8\$ 328.975 ppbv
RT: 5.055 min Scan# 151
Delta R.T. -0.008 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

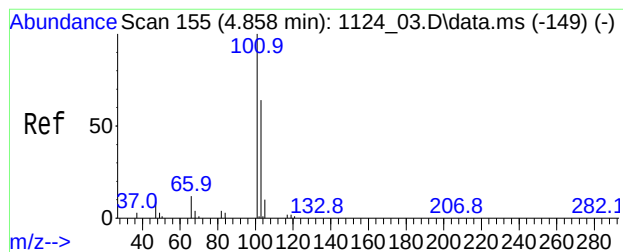
Tgt Ion: 45 Resp: 1776791
Ion Ratio Lower Upper
45 100
46 33.7 27.0 40.4
43 23.1 17.0 25.4



#12
Acetone
Conc: 8\$ 25.397 ppbv
RT: 5.430 min Scan# 210
Delta R.T. -0.025 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

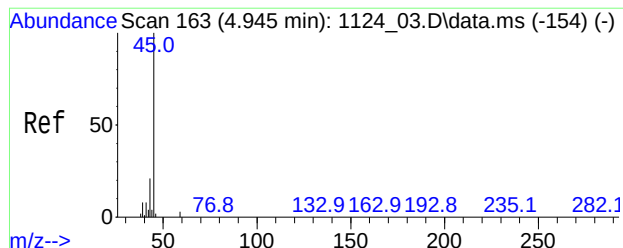
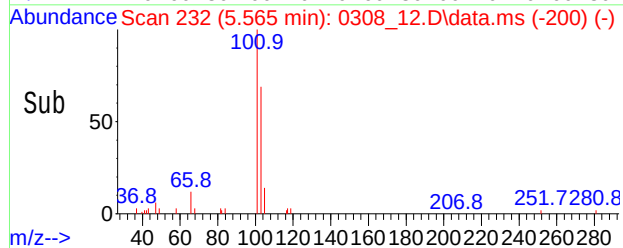
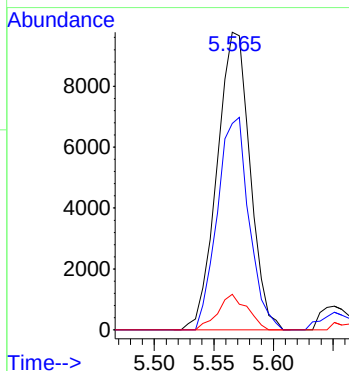
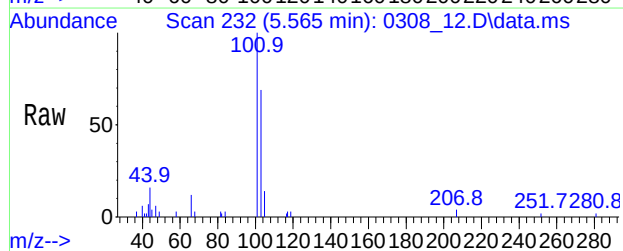
Tgt Ion: 43 Resp: 703657
Ion Ratio Lower Upper
43 100
58 33.0 30.8 46.2





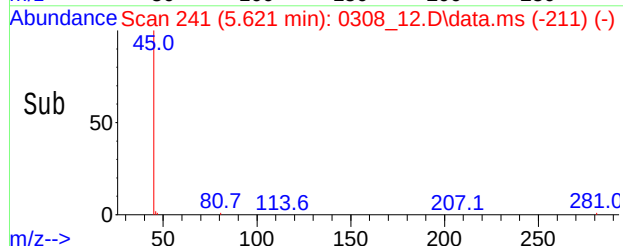
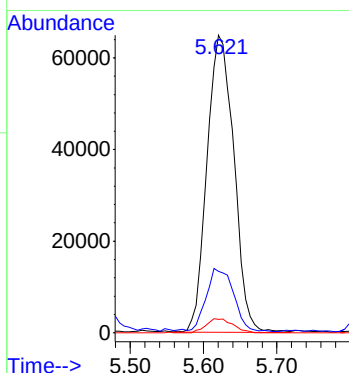
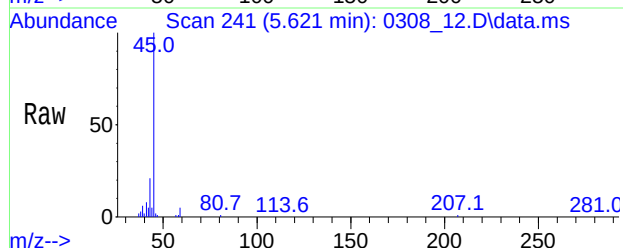
#13
 Trichlorofluoromethane
 Conc: 8\$ 0.246 ppbv
 RT: 5.565 min Scan# 232
 Delta R.T. -0.006 min
 Lab File: 0308_12.D
 Acq: 8 Mar 2023 5:55 pm

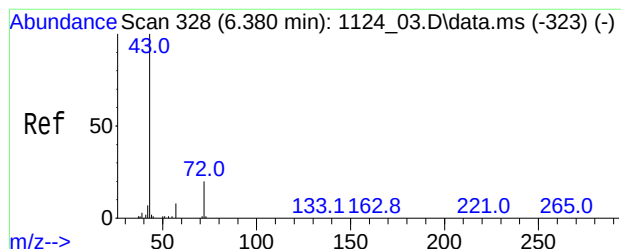
Tgt Ion:	101	Resp:	18825
Ion Ratio	Lower	Upper	
101	100		
103	68.8	52.9	79.3
66	10.6	7.3	10.9



#14
 Isopropylalcohol
 Conc: 8\$ 5.083 ppbv
 RT: 5.621 min Scan# 241
 Delta R.T. -0.018 min
 Lab File: 0308_12.D
 Acq: 8 Mar 2023 5:55 pm

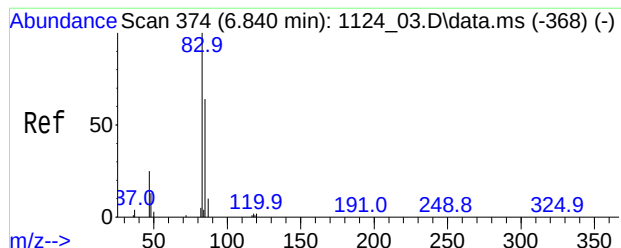
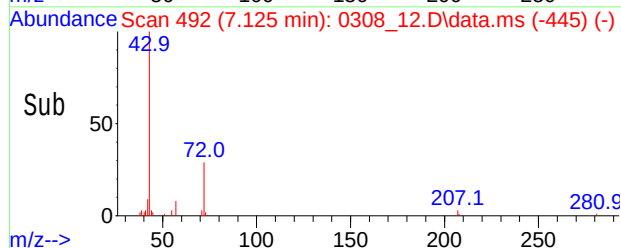
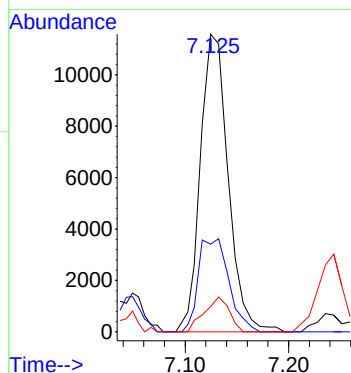
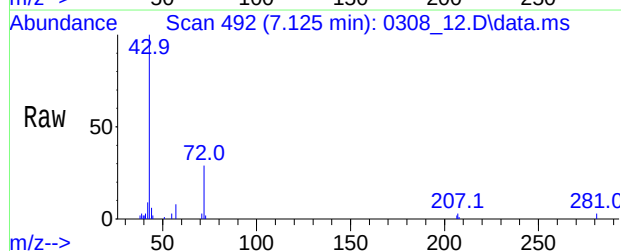
Tgt Ion:	45	Resp:	165024
Ion Ratio	Lower	Upper	
45	100		
43	21.5	15.4	23.0
59	4.7	3.9	5.9





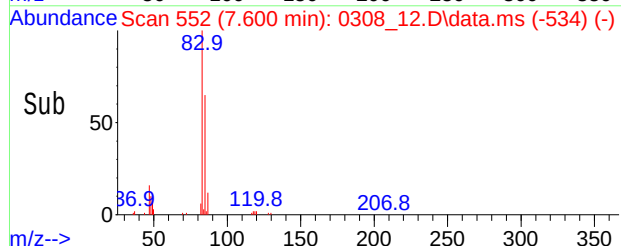
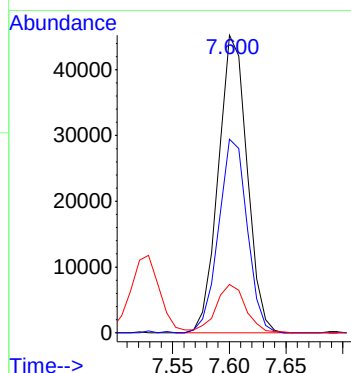
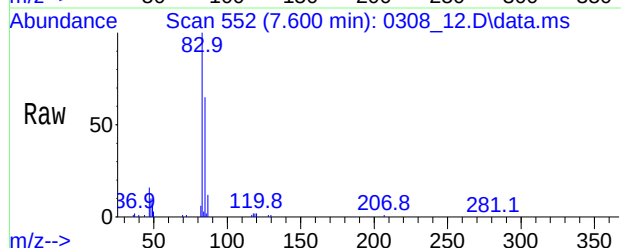
#26
Methyl Ethyl Ketone
Conc: 8\$ 0.554 ppbv
RT: 7.125 min Scan# 492
Delta R.T. -0.016 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

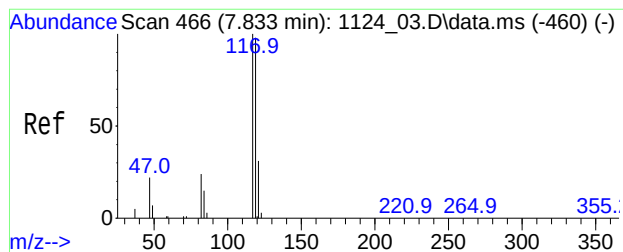
Tgt Ion	Ratio	Lower	Upper
43	100		
72	33.7	27.2	40.8
57	10.3	7.8	11.8



#29
Chloroform
Conc: 8\$ 1.317 ppbv
RT: 7.600 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

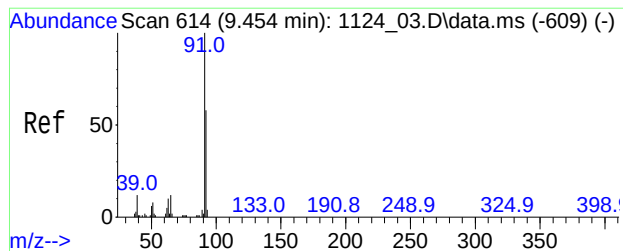
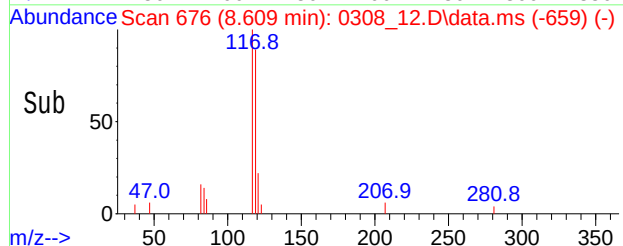
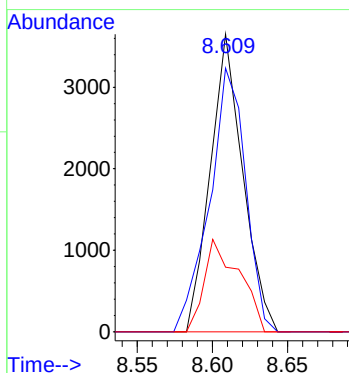
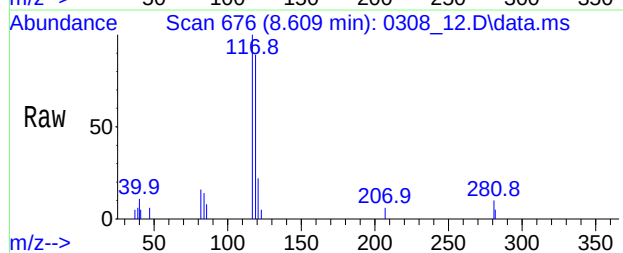
Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	46.1	86.1
47	16.8	0.0	35.3





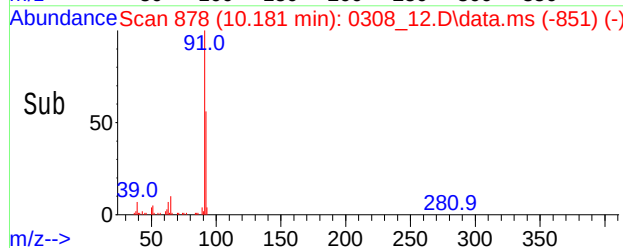
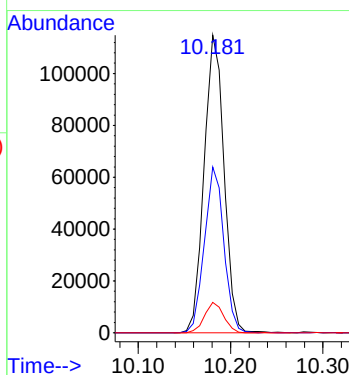
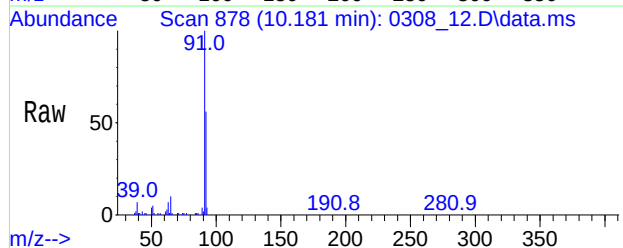
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

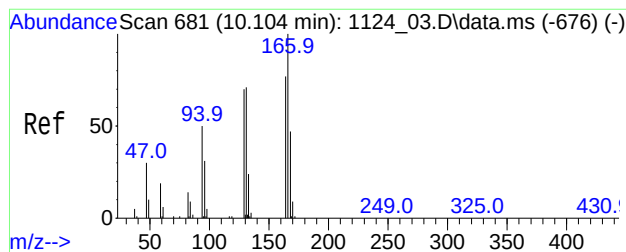
Tgt Ion:	117	Resp:	5528
Ion Ratio	Lower	Upper	
117	100		
119	97.7	77.0	117.0
121	33.3	11.5	51.5



#49
Toluene
Conc: 8\$ 1.486 ppbv
RT: 10.181 min Scan# 878
Delta R.T. -0.007 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

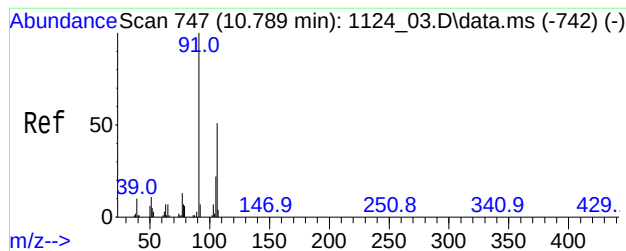
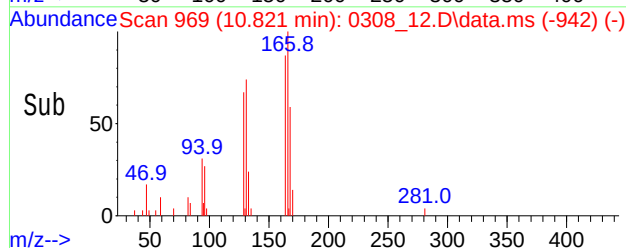
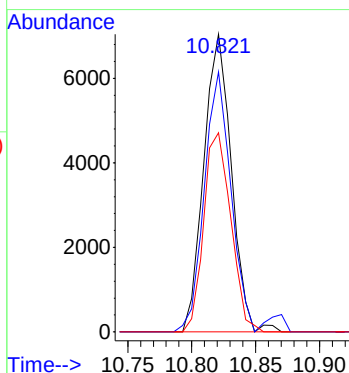
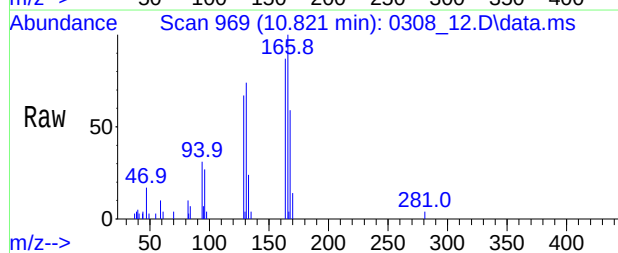
Tgt Ion:	91	Resp:	172352
Ion Ratio	Lower	Upper	
91	100		
92	54.3	44.6	66.8
65	9.8	7.2	10.8





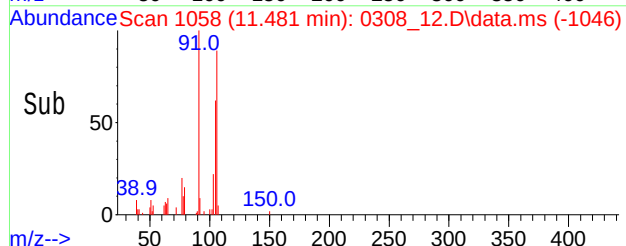
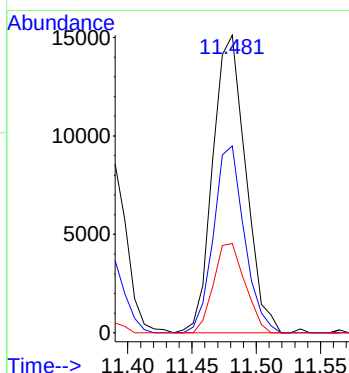
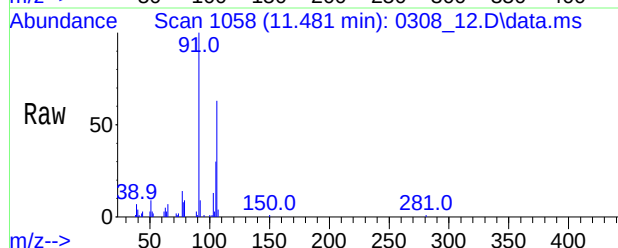
#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

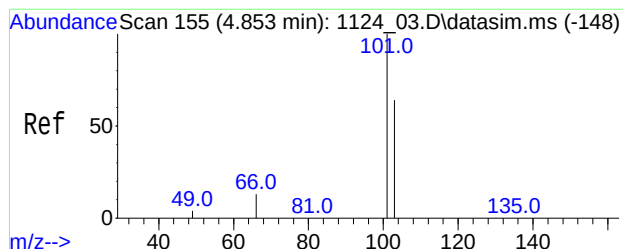
Tgt Ion	Ratio	Lower	Upper
166	100		
164	84.0	62.3	93.5
129	65.8	54.7	82.1



#58
m,p-Xylene
Conc: 8\$ 0.247 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. -0.008 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

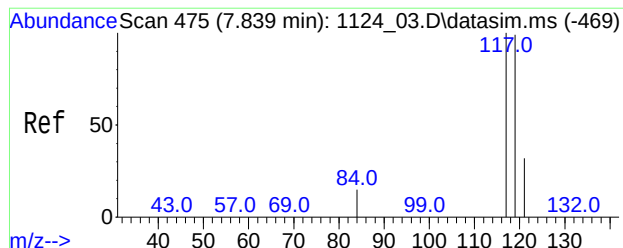
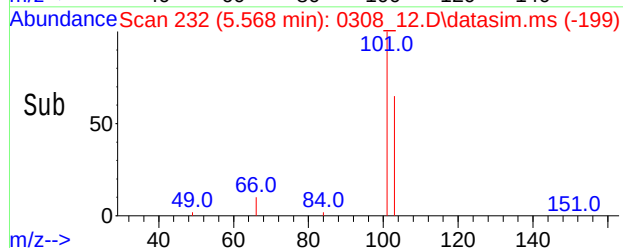
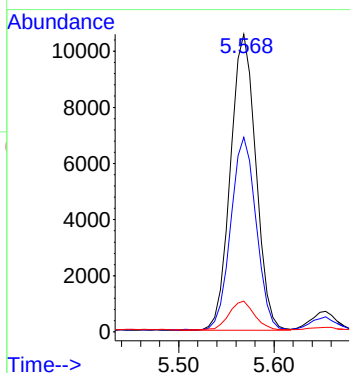
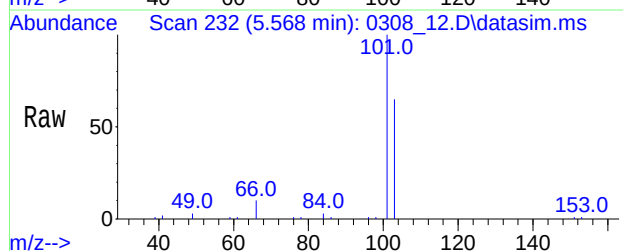
Tgt Ion	Ratio	Lower	Upper
91	100		
106	58.8	43.1	64.7
105	28.7	20.2	30.2





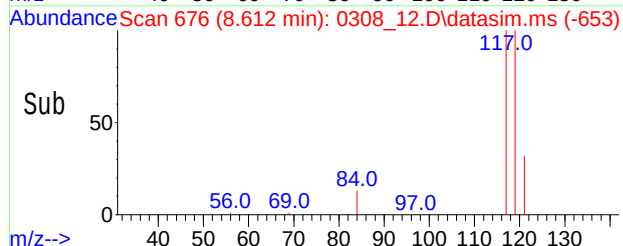
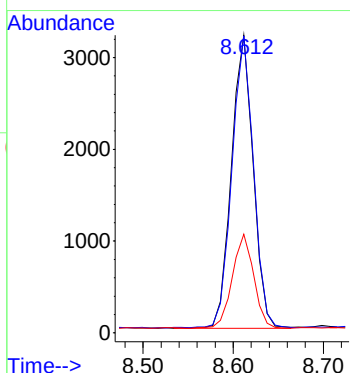
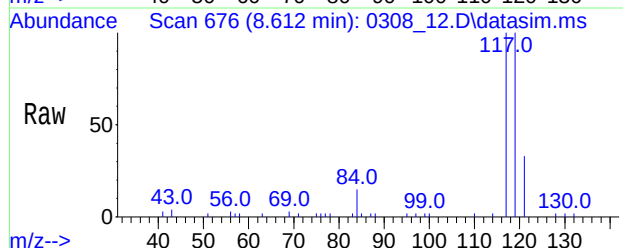
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.235 ppbv
RT: 5.568 min Scan# 232
Delta R.T. -0.000 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

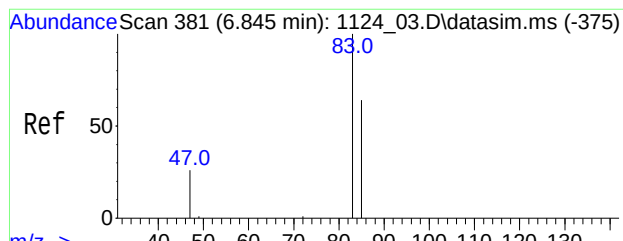
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	19475		
103	64.8	52.2	78.4	
66	9.7	9.3	9.3#	



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.072 ppbv
RT: 8.612 min Scan# 676
Delta R.T. -0.000 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

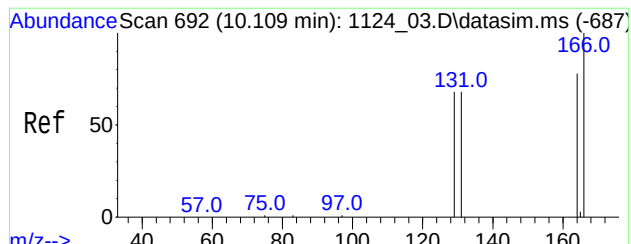
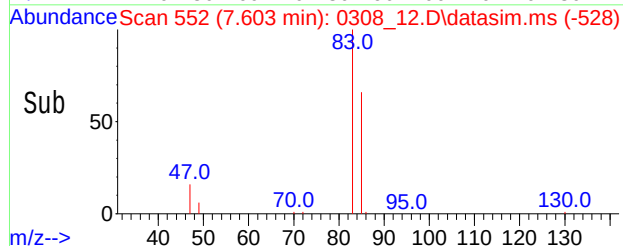
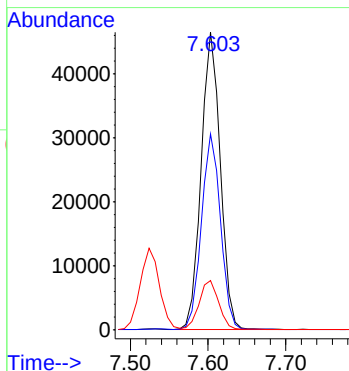
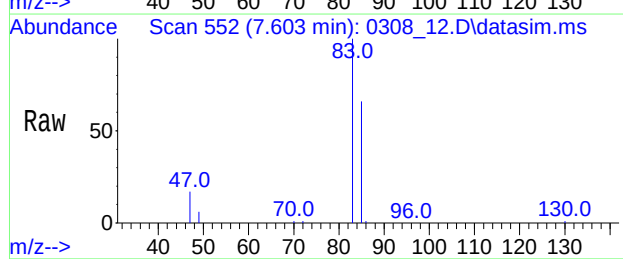
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5370		
119	99.1	77.7	116.5	
121	31.6	25.1	37.7	





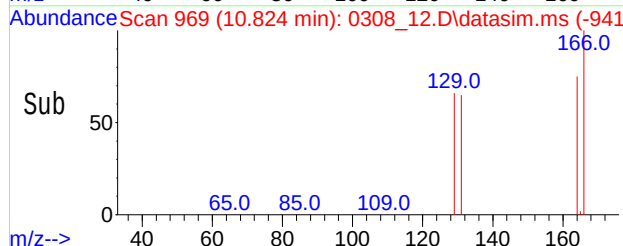
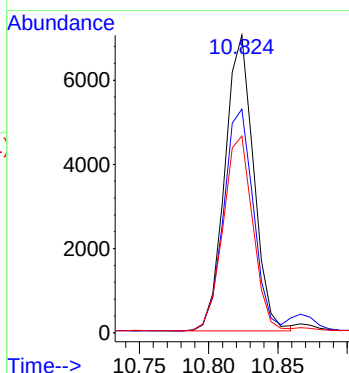
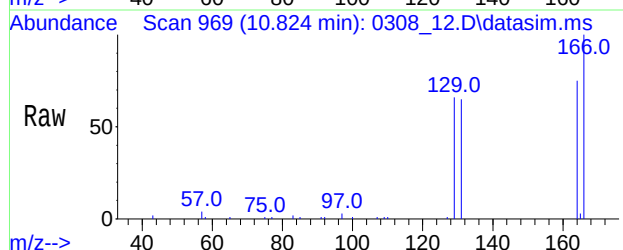
#95
Chloroform(sim)
Conc: 8\$ 1.126 ppbv
RT: 7.603 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

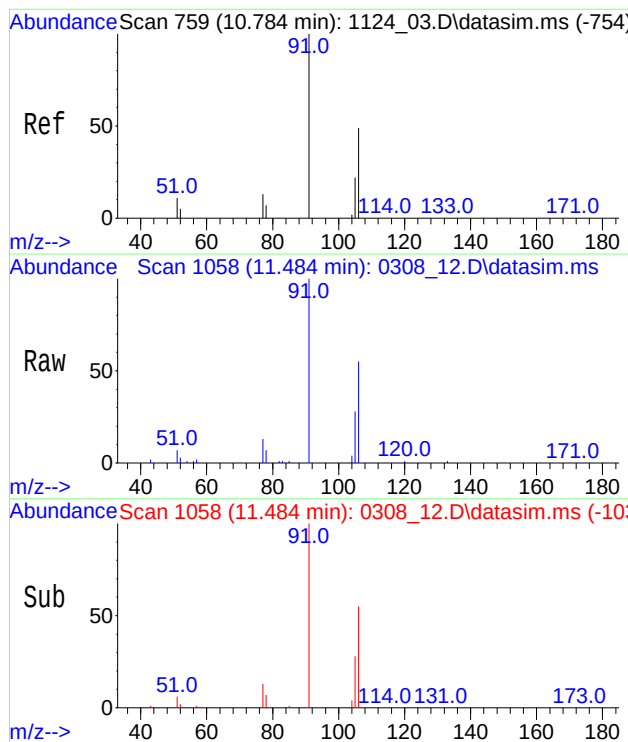
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.4	52.6	78.8
47	16.8	12.6	18.8



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.134 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0308_12.D
Acq: 8 Mar 2023 5:55 pm

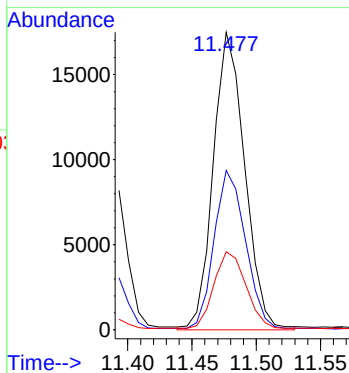
Tgt Ion	Ratio	Lower	Upper
166	100		
164	77.8	57.9	97.9
129	68.2	50.0	90.0





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.235 ppbv
 RT: 11.481 min Scan# 1058
 Delta R.T. -0.008 min
 Lab File: 0308_12.D
 Acq: 8 Mar 2023 5:55 pm

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	26957		
106	58.8		48.5	59.3
105	28.7		20.2	30.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54092</u>
Canister:	<u>228</u>	Lab File ID:	<u>0307_27.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	0.431		0.202	0.202	r
74-87-3	Chloromethane	0.585		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	5.19	S	0.531	0.531	r
67-64-1	Acetone	2.98	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.278		0.178	0.178	r
67-63-0	Isopropylalcohol	0.867	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	0.298	S	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	0.325		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	0.672		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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54092</u>
Canister:	<u>228</u>	Lab File ID:	<u>0307_27.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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)	0.079		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)	0.129		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)	0.313		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:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_27.D
 Acq On : 8 Mar 2023 12:18 am
 Operator :
 Client ID : IA-3
 Lab ID : CN54092
 ALS Vial : 23 Sample Multiplier: 1

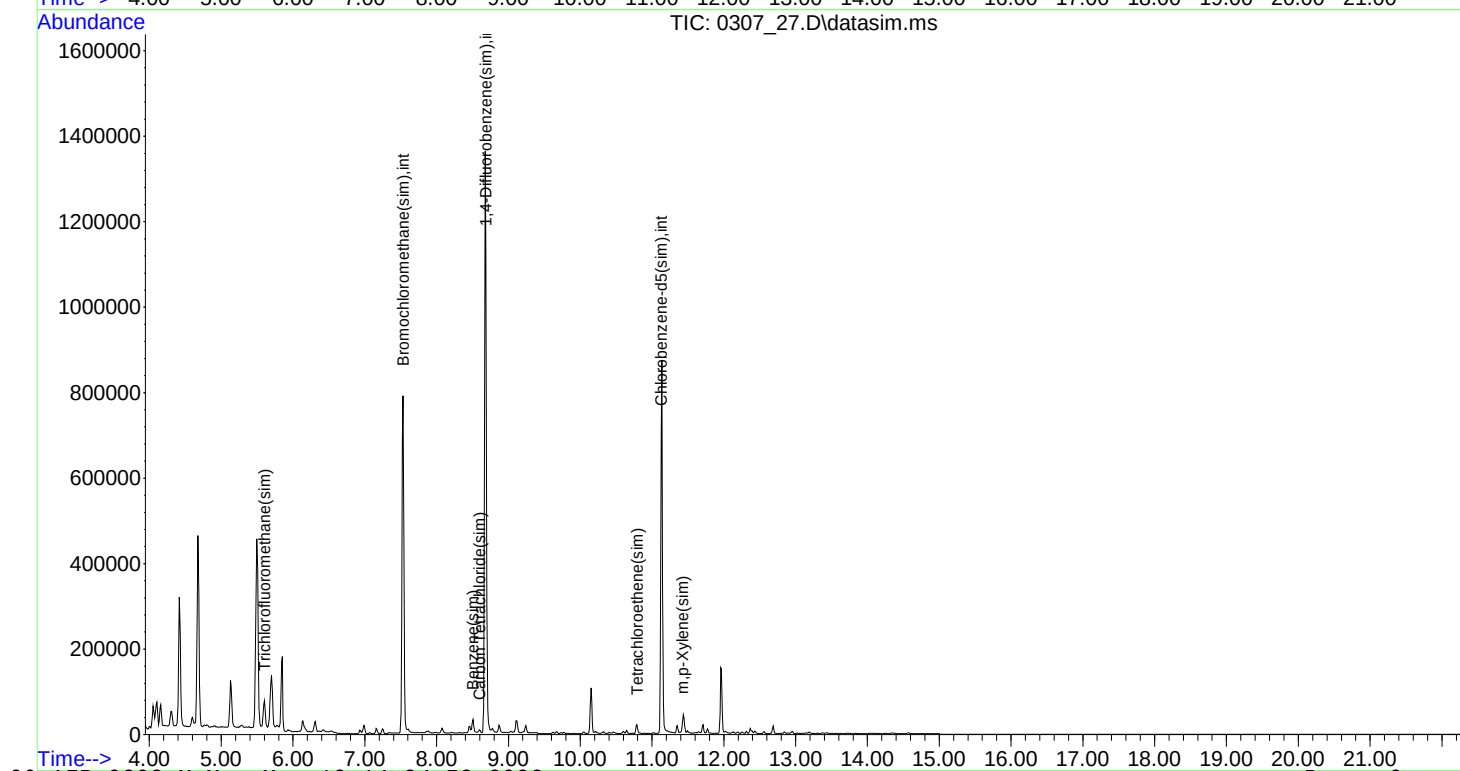
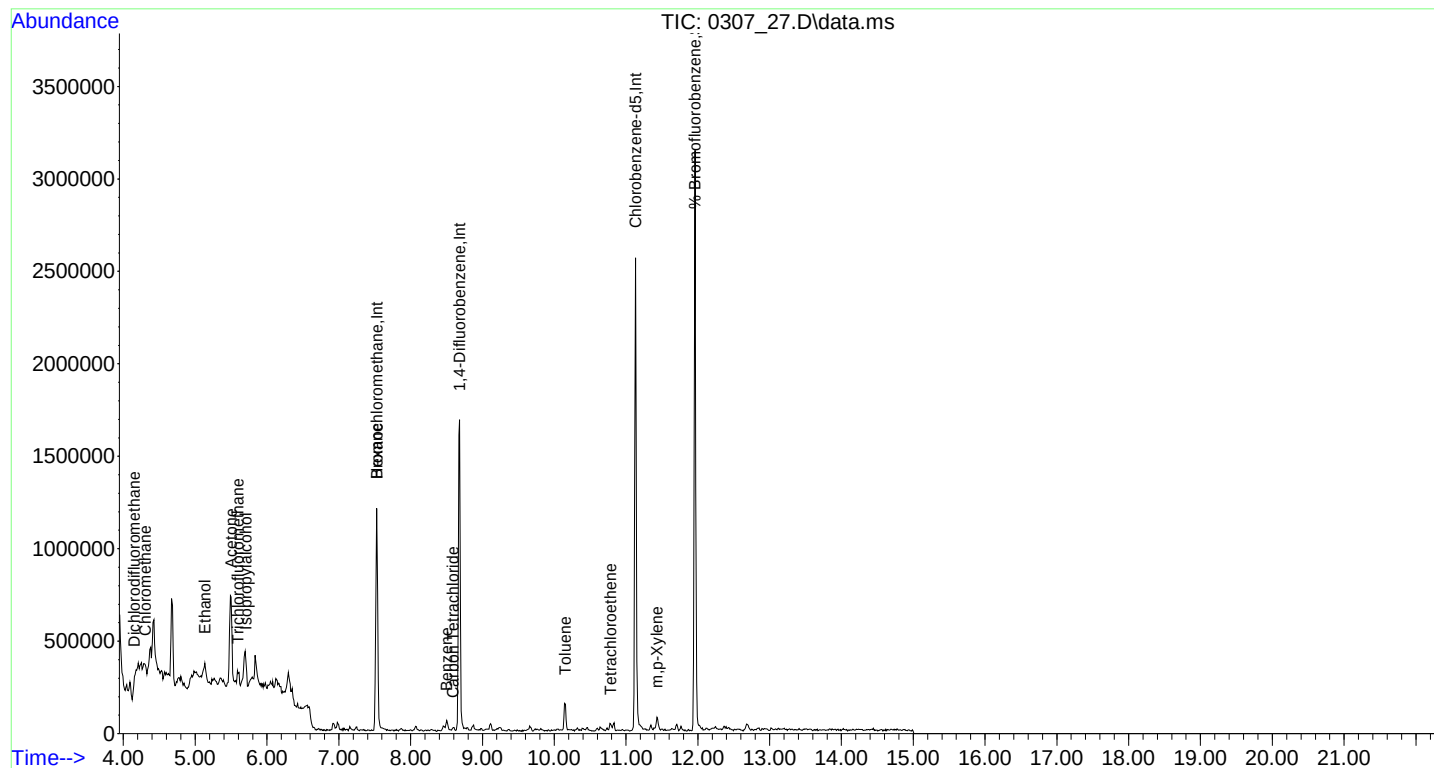
Quant Time: Mar 08 11:05:20 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

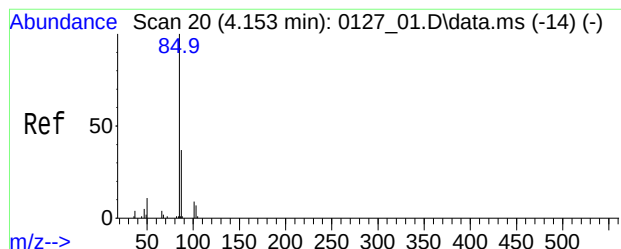
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.528	130	358201	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.682	114	1305536	10.000	ng	0.01
54) Chlorobenzene-d5	11.131	82	556781	10.000	ng	0.00
81) Bromochloromethane(sim)	7.533	130	414258	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.682	114	1305307	10.000	ng	0.01
106) Chlorobenzene-d5(sim)	11.131	82	556931	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	716675	11.791	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery	=	117.90%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.154	85	54199	0.431	ppbv#	91
4) Chloromethane	4.304	50	36874	0.585	ppbv	94
11) Ethanol	5.134	45	129868	5.194	ppbv#	85
12) Acetone	5.501	43	478532	2.984	ppbv#	88
13) Trichlorofluoromethane	5.598	101	69867	0.277	ppbv	91
14) Isopropylalcohol	5.706	45	148253	0.867	ppbv#	93
28) Hexane	7.528	57	19289	0.298	ppbv#	94
34) Benzene	8.501	78	34881	0.325	ppbv#	83
35) Carbon Tetrachloride	8.592	117	4522	0.065	ppbv	82
49) Toluene	10.154	91	87759	0.671	ppbv#	87
53) Tetrachloroethene	10.785	166	8431	0.126	ppbv	90
58) m,p-Xylene	11.428	91	38932	0.358	ppbv	94
85) Trichlorofluoromethane...	5.603	101	65624	0.269	ppbv#	99
88] Benzene(sim)	8.501	78	34881	0.313	ppbv#	83
89] Carbon Tetrachloride(sim)	8.597	117	5331	0.079	ppbv	97
105] Tetrachloroethene(sim)	10.791	166	11140	0.129	ppbv	97
108] m,p-Xylene(sim)	11.428	91	39172	0.313	ppbv	95

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

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
Data File : 0307_27.D
Acq On : 8 Mar 2023 12:18 am
Operator :
Client ID : IA-3
Lab ID : CN54092
ALS Vial : 23 Sample Multiplier: 1

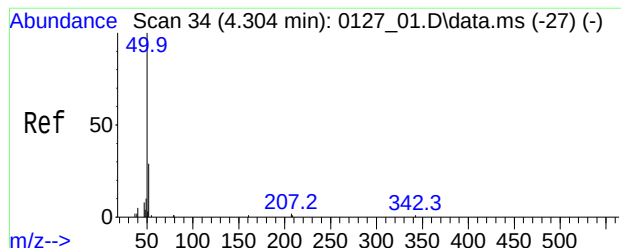
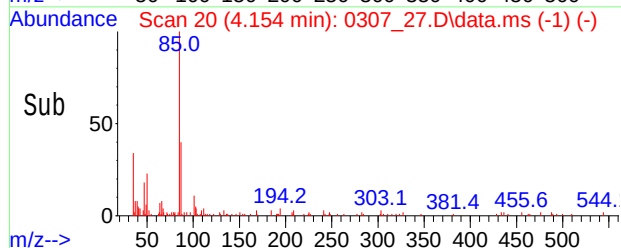
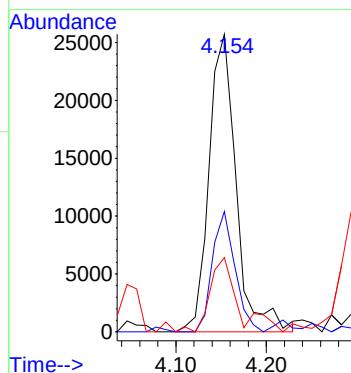
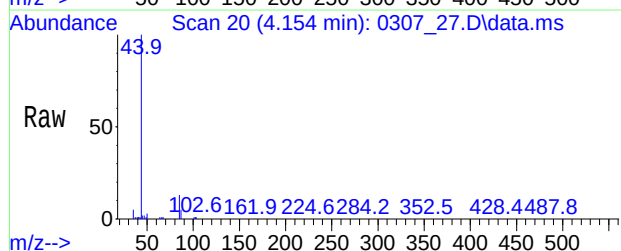
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Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration





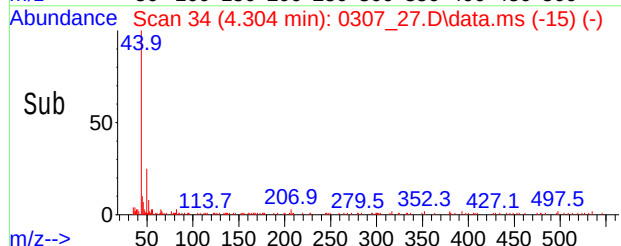
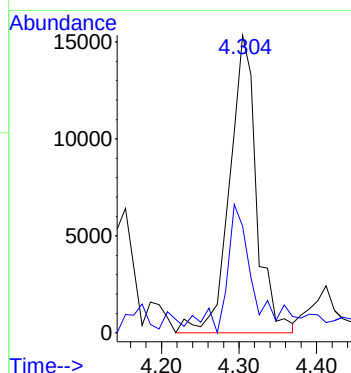
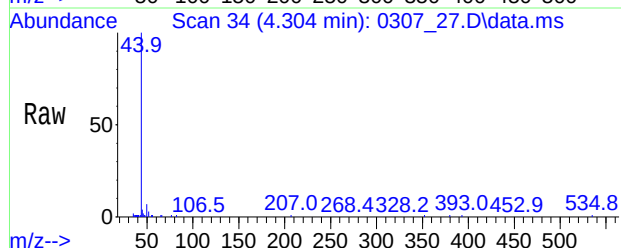
#3
Dichlorodifluoromethane
Conc: 8\$ 0.431 ppbv
RT: 4.154 min Scan# 20
Delta R.T. 0.000 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

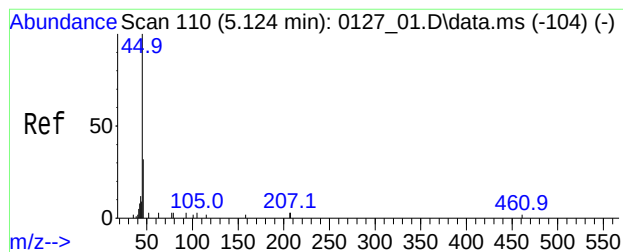
Tgt Ion	85	Resp	54199
Ratio	100	Lower	Upper
85	100		
87	33.6	25.3	37.9
50	25.5	14.1	21.1#



#4
Chloromethane
Conc: 8\$ 0.585 ppbv
RT: 4.304 min Scan# 34
Delta R.T. 0.000 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

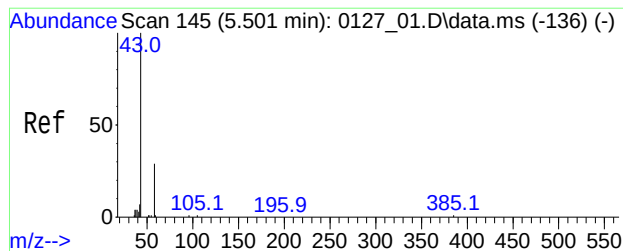
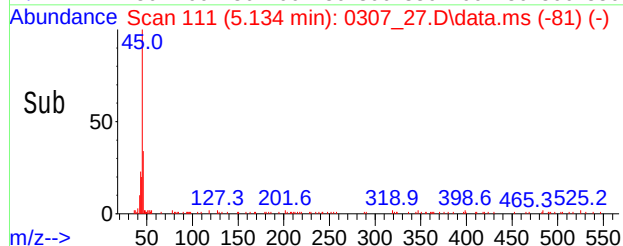
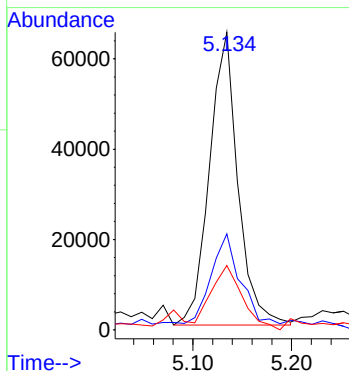
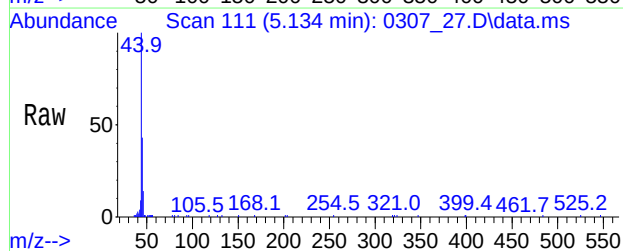
Tgt Ion	50	Resp	36874
Ratio	100	Lower	Upper
50	100		
52	38.4	14.8	54.8





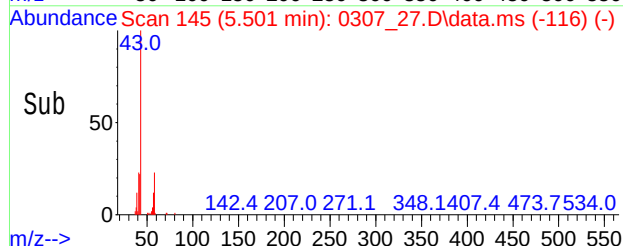
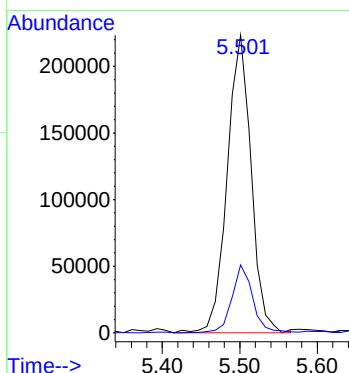
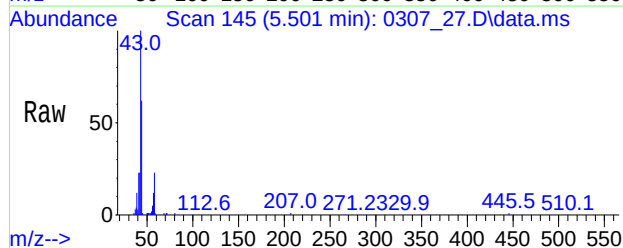
#11
Ethanol
Conc: 8\$ 5.194 ppbv
RT: 5.134 min Scan# 111
Delta R.T. 0.022 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

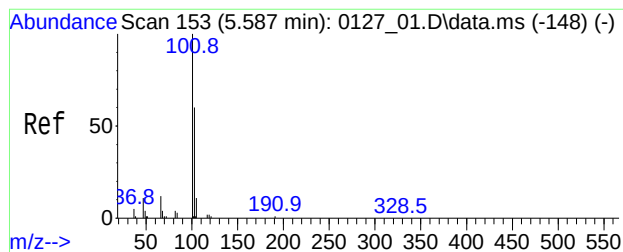
Tgt Ion	Ratio	Lower	Upper
45	100		
46	42.1	26.4	39.6#
43	24.2	14.6	22.0#



#12
Acetone
Conc: 8\$ 2.984 ppbv
RT: 5.501 min Scan# 145
Delta R.T. 0.011 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

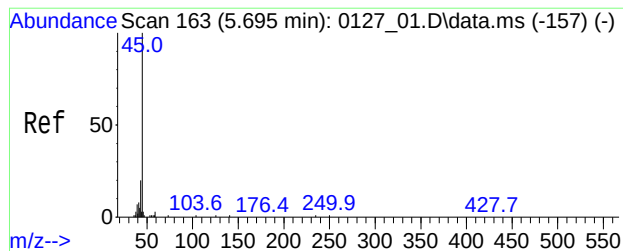
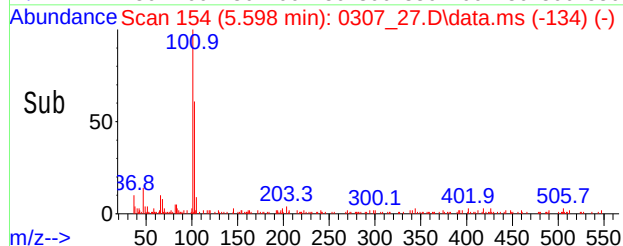
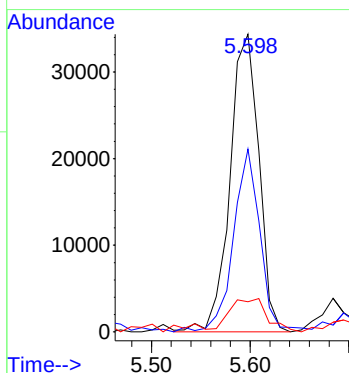
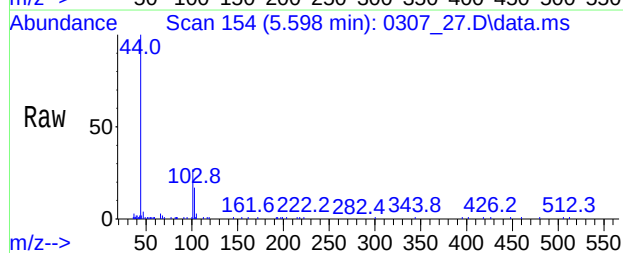
Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.9	20.6	31.0#





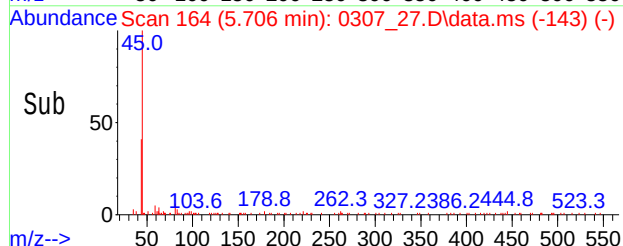
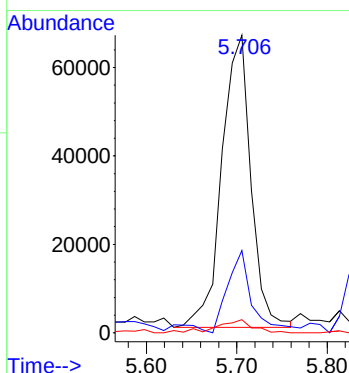
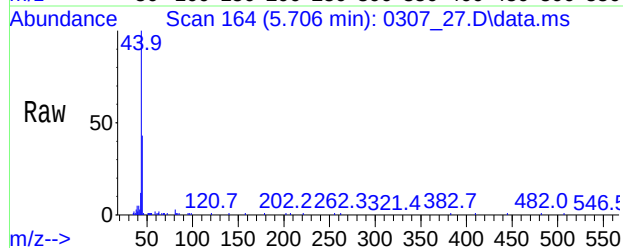
#13
Trichlorofluoromethane
Conc: 8\$ 0.277 ppbv
RT: 5.598 min Scan# 154
Delta R.T. 0.011 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

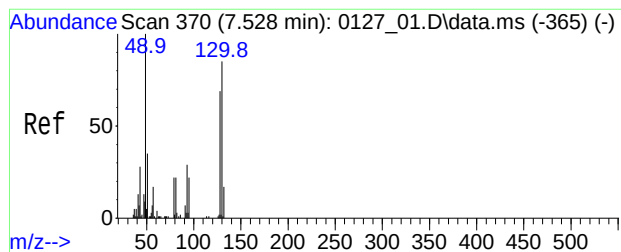
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	69867		
103	56.4		51.7	77.5
66	14.6		11.2	16.8



#14
Isopropylalcohol
Conc: 8\$ 0.867 ppbv
RT: 5.706 min Scan# 164
Delta R.T. 0.022 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

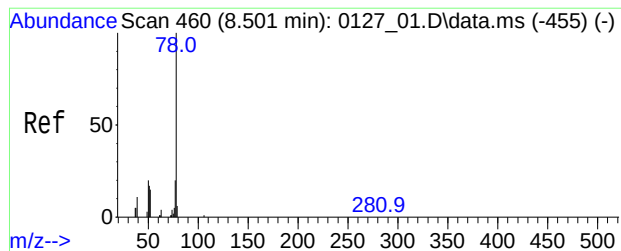
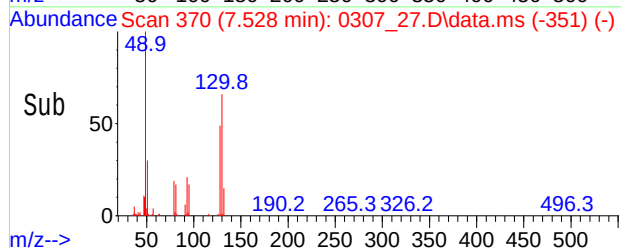
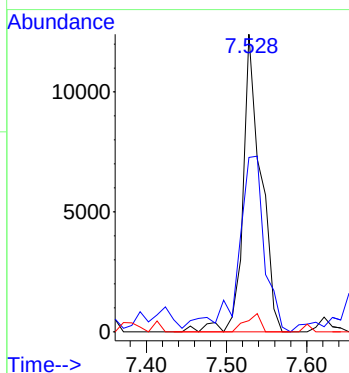
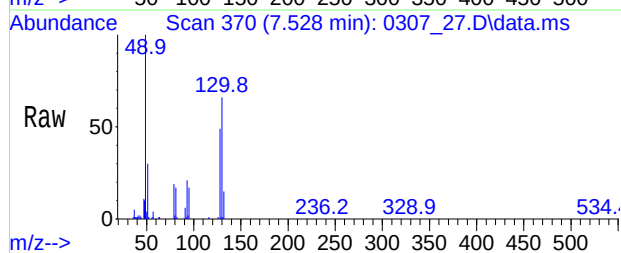
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	148253		
43	21.0		19.6	29.4
59	5.5		2.6	4.0#





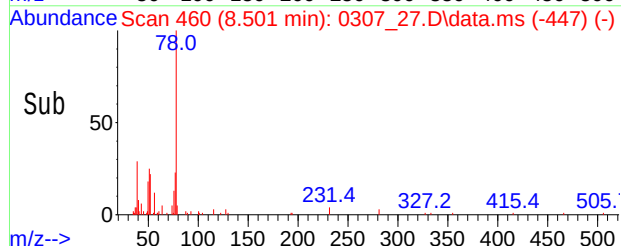
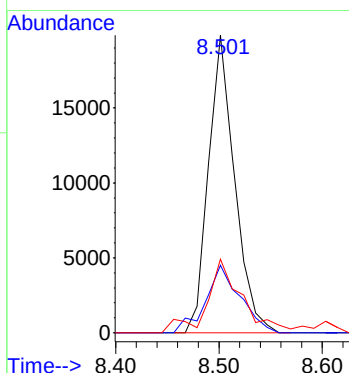
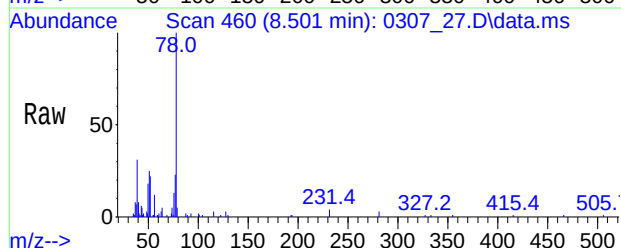
#28
Hexane
Conc: 8\$ 0.298 ppbv
RT: 7.528 min Scan# 370
Delta R.T. 0.000 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

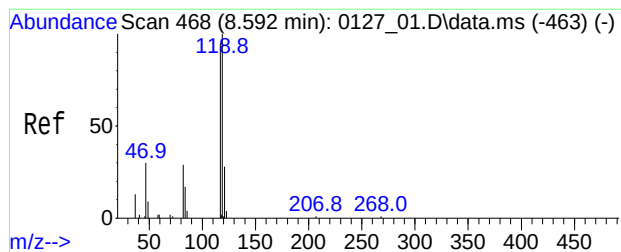
Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.1	66.0	99.0
86	5.1	8.7	13.1#



#34
Benzene
Conc: 8\$ 0.325 ppbv
RT: 8.501 min Scan# 460
Delta R.T. -0.000 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

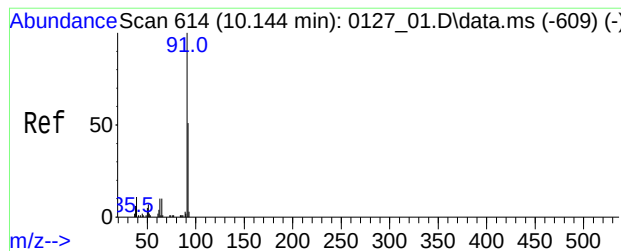
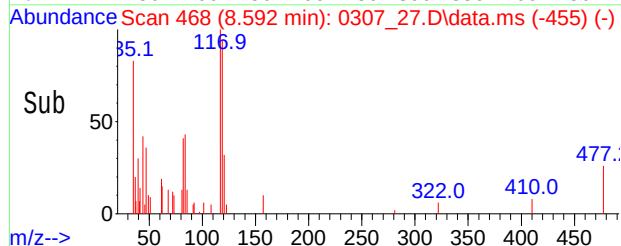
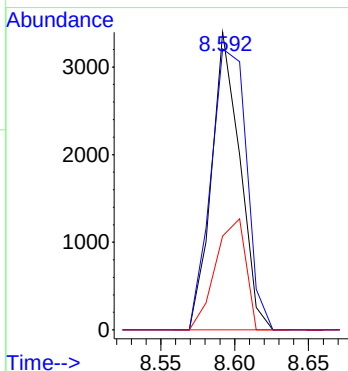
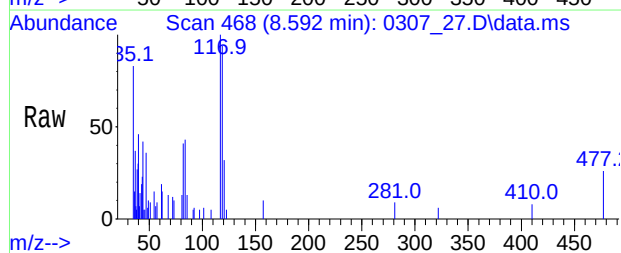
Tgt Ion	Ratio	Lower	Upper
78	100		
77	29.9	20.1	30.1
51	32.8	16.3	24.5#





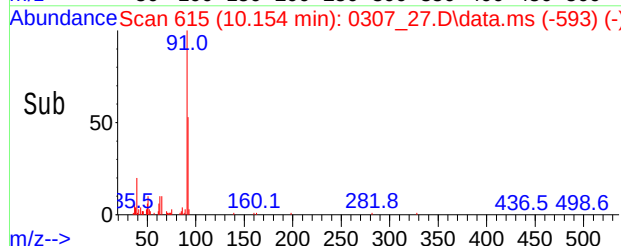
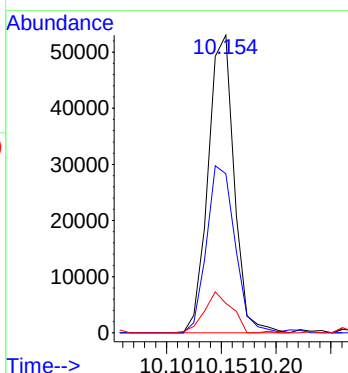
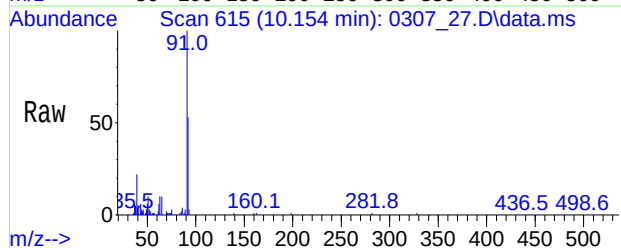
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.592 min Scan# 468
Delta R.T. 0.000 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

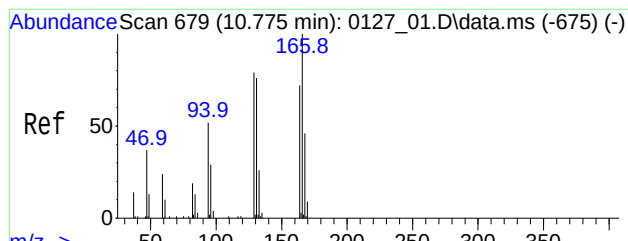
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4522		
119	118.5	79.9	119.9	
121	39.8	11.2	51.2	



#49
Toluene
Conc: 8\$ 0.671 ppbv
RT: 10.154 min Scan# 615
Delta R.T. 0.010 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

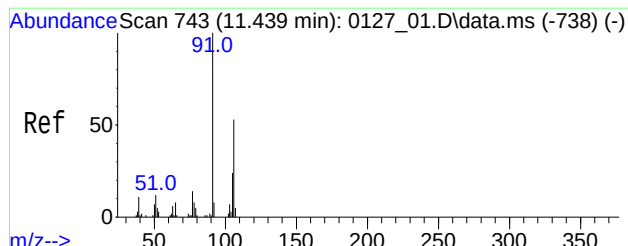
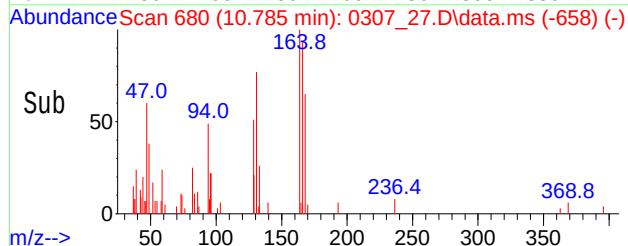
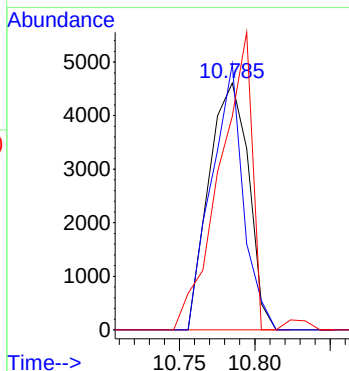
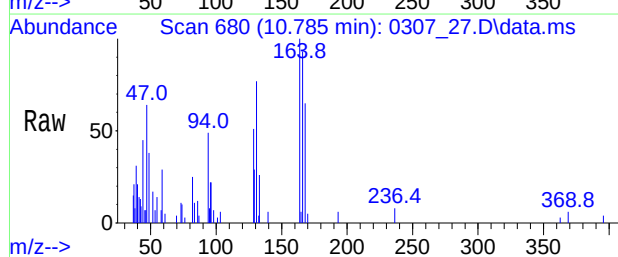
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	87759		
92	61.8	41.8	62.6	
65	14.3	8.2	12.2#	





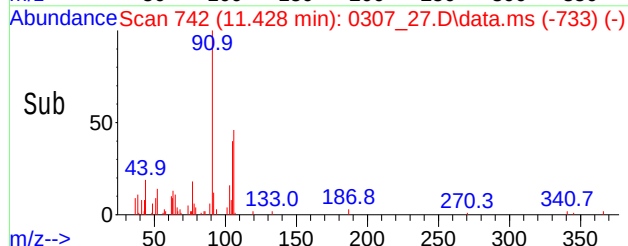
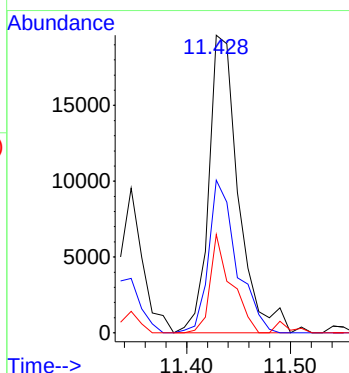
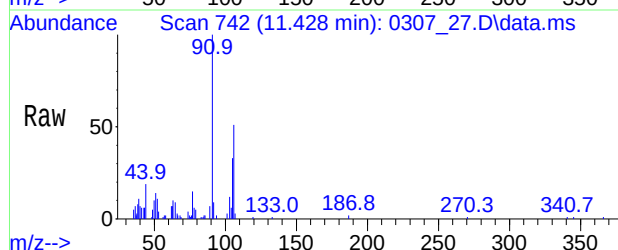
#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.785 min Scan# 680
Delta R.T. 0.010 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

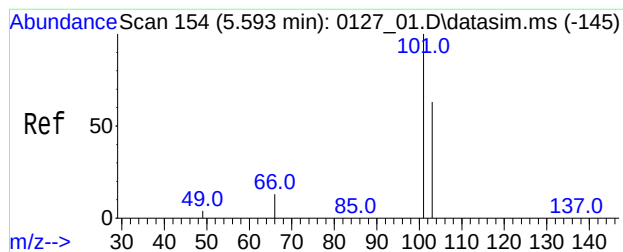
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	8431		
164	86.2		64.8	97.2
129	98.6		68.7	103.1



#58
m,p-Xylene
Conc: 8\$ 0.358 ppbv
RT: 11.428 min Scan# 742
Delta R.T. -0.010 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

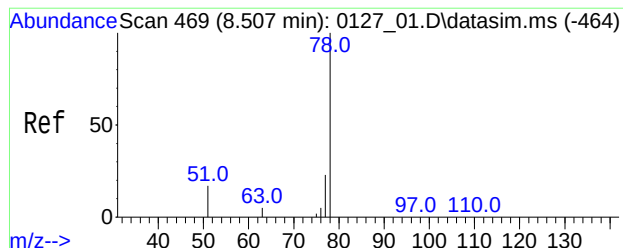
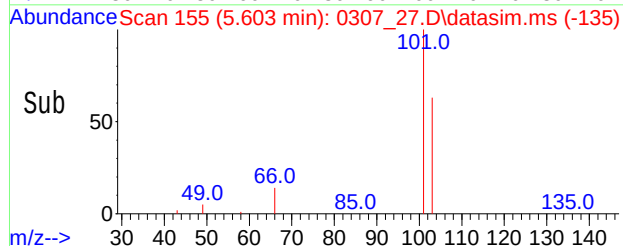
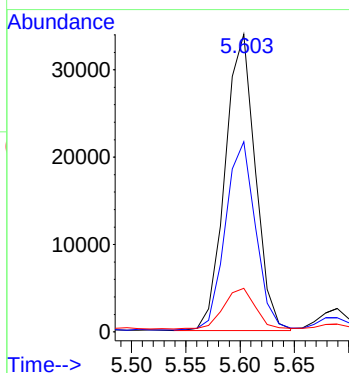
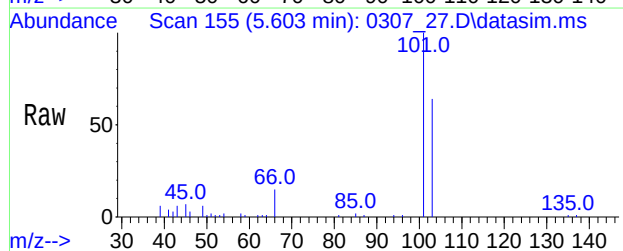
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	38932		
106	48.7		43.0	64.6
105	23.7		19.8	29.8





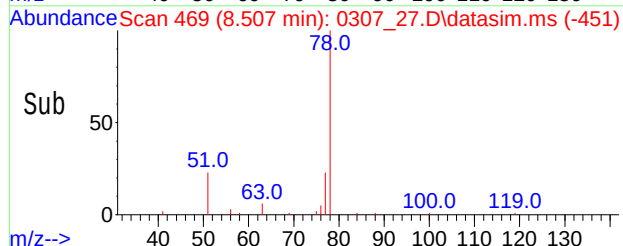
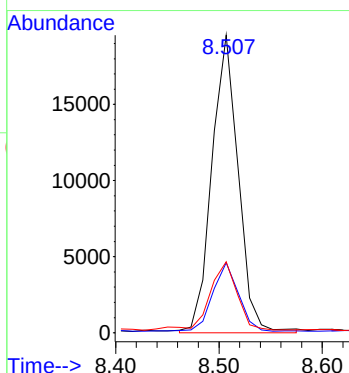
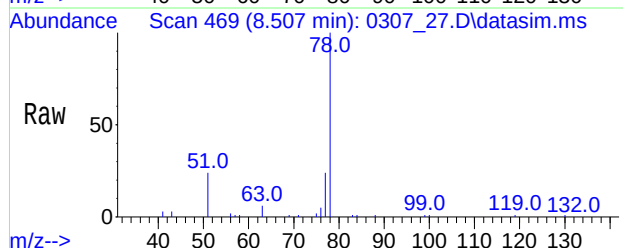
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.269 ppbv
RT: 5.603 min Scan# 155
Delta R.T. 0.011 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

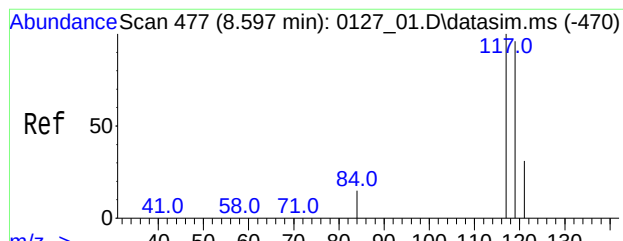
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	65624		
103	63.9	51.1	76.7	
66	14.6	13.4	13.4#	



#88
Benzene(sim)
Conc: 8\$ 0.313 ppbv
RT: 8.501 min Scan# 469
Delta R.T. -0.000 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

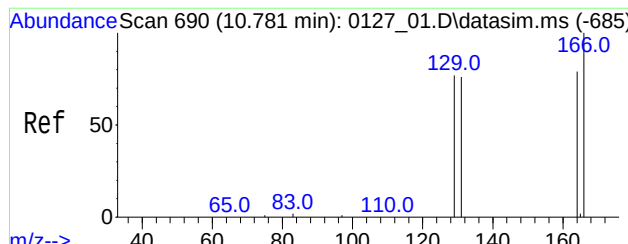
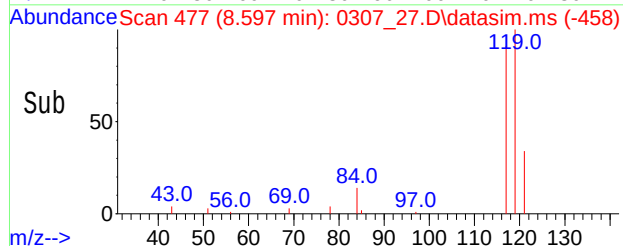
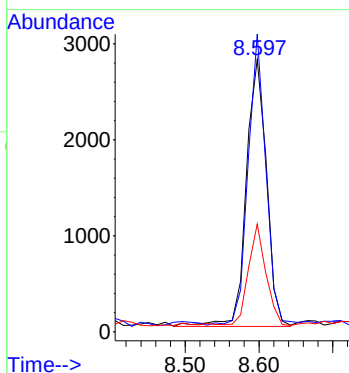
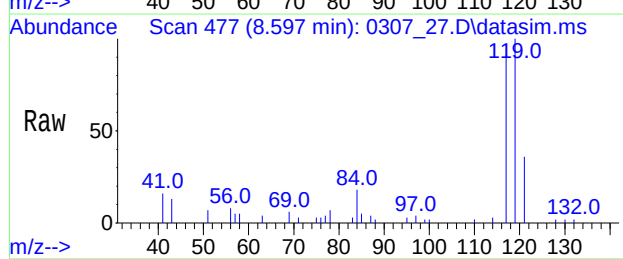
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	34881		
77	29.9	20.1	30.1	
51	32.8	16.3	24.5#	





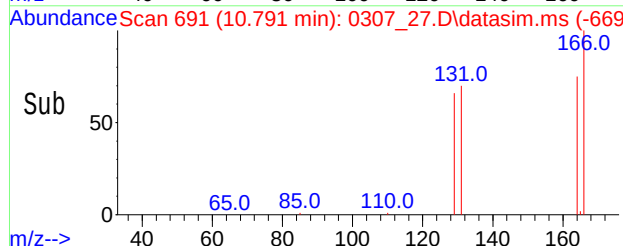
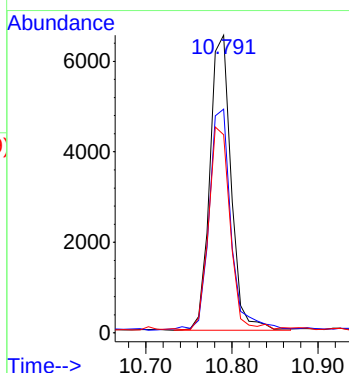
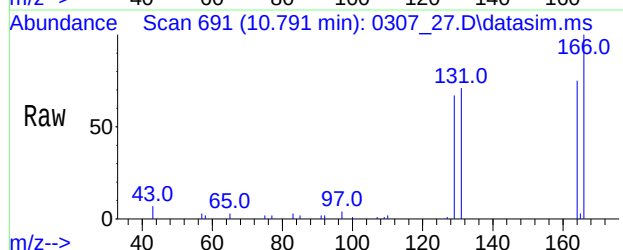
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.079 ppbv
RT: 8.597 min Scan# 477
Delta R.T. 0.011 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

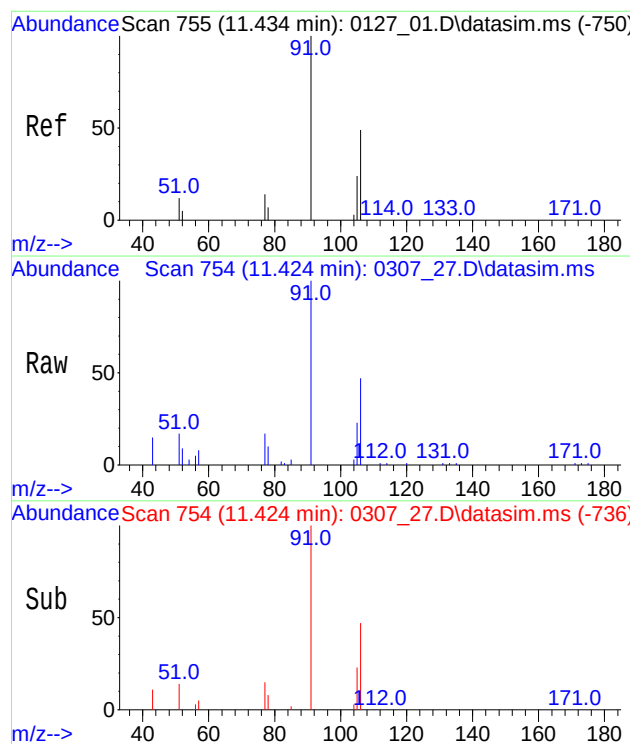
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	5331		
119	96.5		80.4	120.6
121	32.5		25.8	38.8



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.129 ppbv
RT: 10.791 min Scan# 691
Delta R.T. 0.010 min
Lab File: 0307_27.D
Acq: 8 Mar 2023 12:18 am

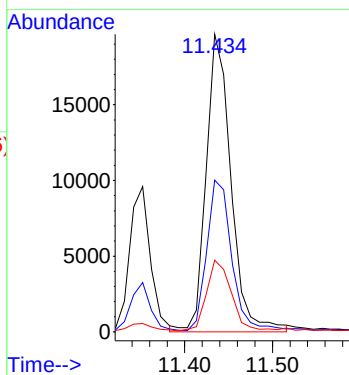
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	11140		
164	78.2		59.1	99.1
129	69.7		54.4	94.4





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.313 ppbv
 RT: 11.428 min Scan# 754
 Delta R.T. -0.010 min
 Lab File: 0307_27.D
 Acq: 8 Mar 2023 12:18 am

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	39172		
106	48.4		48.2	59.0
105	24.5		19.6	29.4



Response Factor Report CHEM20

Method Path : H:\AIR2023\CHEM20\Methods\
 Method File : 20_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 12:06:30 2023
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,g,qf) display calculated conc and corr. coefficient.)

.035=0302_08.D 0.05=0302_09.D 0.10=0302_10.D 0.2=0302_11.D 0.5=0302_12.D 1.0=0302_17.D 2.5=0302_13.D 5.0=0302_14.D
 10=0302_18.D 25=0302_15.D 40=0302_16.D 0.02=0302_07.D 0.01=0302_06.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	1.033	1.146	1.011	0.917	0.979	0.759	0.418							0.895	26.96
3) Dichlorodifluo...	3.462	3.863	3.863	3.416	3.780	3.473	3.201	3.038						3.512	8.69
4) Chloromethane	2.014	1.866	1.956	1.703	1.873	1.736	1.552	1.379						1.760	12.13
5) 1,2-Dichlorote...	6.337	5.839	5.311	5.449	5.717	5.645	5.179	4.727						5.525	8.70
6) Vinyl Chloride	2.246	2.322	2.094	1.941	1.940	1.919	1.709	1.500						1.959	13.76
7) 1,3-Butadiene	2.369	1.664	1.549	1.632	1.730	1.566	1.423	1.233						1.646	20.10
8) Bromomethane	1.927	2.356	1.994	2.043	2.135	2.029	1.833	1.640						1.995	10.56
9) Chloroethane	0.261	0.861	0.977	0.821	0.961	0.887	0.778	0.704						0.781	29.28
11) Ethanol			0.831	0.791	0.718	0.686	0.635	0.528						0.698	15.65
12) Acetone	5.853	4.899	4.478	4.389	4.514	4.335	3.935	3.418						4.478	15.83
13) Trichlorofluor...	7.453	7.103	7.029	7.072	7.484	7.289	6.767	6.037						7.029	6.62
14) Isopropylalcohol	5.666	4.888	5.102	4.846	5.026	4.786	4.293	3.588						4.774	12.82
15) Acrylonitrile	2.280	2.040	1.870	1.711	1.833	1.615	1.505	1.311						1.771	17.28
16) 1,1-Dichloroet...	4.131	4.026	3.986	3.868	4.030	3.958	3.595	3.191						3.848	8.05
17) Methylene Chlo...	3.741	3.471	3.086	3.146	3.269	3.128	2.869	2.517						3.153	11.68
20) Carbon Disulfide	3.171	5.732	5.615	5.326	5.797	5.477	5.097	4.621						5.104	17.04
21) Trichlorotrifl...	2.348	5.704	5.119	5.040	5.459	5.227	5.036	4.631						4.821	21.74
22) Trans-1,2-Dich...	1.466	1.385	1.490	1.454	1.507	1.492	1.341							1.448	4.28
23) 1,1-Dichloroet...	2.378	2.038	1.952	1.801	1.961	1.893	1.781	1.598						1.925	11.85
24) Methyl tert-bu...	2.723	2.521	2.515	2.471	2.616	2.523	2.442	2.290						2.513	5.03
26) Methyl Ethyl K...	2.735	3.026	2.676	2.745	2.790	2.673	2.552	2.250						2.681	8.23
27) Cis-1,2-Dichlo...	2.007	1.350	1.299	1.550	1.625	1.442	1.374	1.287						1.492	16.07
28) Hexane	2.030	1.782	1.795	1.782	1.810	1.841	1.756	1.648						1.805	5.93
29) Chloroform	2.361	1.999	2.068	1.962	2.206	2.166	2.054	1.862						2.085	7.50
30) Ethyl acetate	0.561	0.524	0.485	0.426	0.497	0.448	0.456	0.437						0.479	9.69
31) Tetrahydrofuran	2.241	1.731	1.526	1.492	1.623	1.546	1.439	1.281						1.610	17.82
32) 1,2-Dichloroet...	1.951	1.570	1.534	1.471	1.426	1.453	1.345	1.250						1.500	13.90
33) 1,1,1-Trichlor...	2.083	2.198	1.951	1.971	2.068	2.458	2.058	2.235						2.128	7.77
34) Benzene	3.272	3.271	2.882	2.846	3.105	3.006	2.877	2.558						2.995	7.69
35) Carbon Tetrach...	1.575	1.746	2.042	1.847	2.047	2.133	2.144	2.112						1.956	10.72
36) Cyclohexane	1.545	1.275	1.168	1.120	1.242	1.233	1.077	0.971						1.204	14.12
37) Int 1,4-Difluorobenzene	-----ISTD-----														
38) 1,2-dichloropr...	0.433	0.426	0.331	0.342	0.391	0.342	0.366	0.347						0.372	10.74
39) Bromodichlorom...	0.455	0.557	0.563	0.530	0.615	0.606	0.741	0.880						0.618	21.58
40) Trichloroethene	0.449	0.378	0.366	0.376	0.430	0.422	0.527	0.671						0.452	22.67
42) 1,4-Dioxane	0.214	0.204	0.219	0.170	0.198	0.175	0.227	0.267						0.209	14.69
44) Heptane	0.717	0.591	0.637	0.589	0.673	0.599	0.641	0.657						0.638	6.97
45) cis-1,3-Dichlo...	0.395	0.396	0.461	0.397	0.473	0.449	0.515	0.565						0.456	13.50

Response Factor Report CHEM20

Method Path : H:\AIR2023\CHEM20\Methods\

Method File : 20_AIR_0303.M

Title : VOA Standards for 5 point calibration

46)	4-Methyl-2-pen...	1.035	0.903	0.920	0.871	0.999	0.932	1.024	1.106	0.974	8.21
47)	trans-1,3-Dich...	0.386	0.367	0.367	0.380	0.433	0.419	0.441	0.461	0.407	8.94
48)	1,1,2-Trichlor...	0.419	0.358	0.315	0.325	0.349	0.331	0.348	0.356	0.350	9.06
49)	Toluene	0.948	1.031	0.973	0.942	1.072	0.980	1.020	1.043	1.001	4.70
50)	Dibromochlorom...	0.475	0.431	0.577	0.483	0.644	0.649	0.760	0.831	0.606	23.43
51)	2-Hexanone(MBK)		0.738	0.824	0.770	0.934	0.853	0.895	0.909	0.846	8.62
52)	1,2-Dibromoeth...	0.557	0.541	0.570	0.541	0.623	0.585	0.623	0.645	0.586	6.89
53)	Tetrachloroethene	0.468	0.466	0.492	0.440	0.530	0.489	0.567	0.633	0.511	12.46

54)	Int Chlorobenzene-d5	-----ISTD-----									
55)	1,1,1,2-Tetrac...	0.874	0.720	1.013	0.857	0.948	0.978	0.902	0.853	0.893	10.19
56)	Chlorobenzene	1.549	1.807	1.814	1.679	1.707	1.666	1.418	1.294	1.617	11.40
57)	Ethylbenzene	2.745	3.140	2.774	2.840	2.518	2.620	2.569	2.125	2.568	15.65
58)	m,p-Xylene	2.310	1.938	2.141	1.706	1.971	2.117	2.016	1.848	1.953	12.08
59)	Bromoform		0.859	0.910	1.095	0.940	1.142	1.243	1.176	1.065	13.33
60)	Styrene		1.998	1.523	1.762	1.472	1.609	1.504	1.233	1.514	20.00
61)	1,1,2,2-Tetrac...		1.790	1.783	1.925	1.675	1.761	1.763	1.644	1.740	6.13
62)	o-Xylene	2.663	1.970	2.199	2.238	2.048	2.102	2.106	2.037	2.147	10.02
63)	Surr% Bromofluorob...		1.234	1.225	1.246	1.209	1.128	1.171	0.868	1.092	19.79
65)	Isopropylbenzene		3.027	2.770	2.900	2.738	2.904	2.727	2.390	2.689	11.77
67)	4-Ethyltoluene		3.138	3.317	2.824	3.187	3.314	3.264	2.748	3.012	11.89
68)	1,3,5-Trimethy...		2.364	2.432	2.446	2.107	2.288	2.088	1.915	2.179	11.16
69)	1,2,4-Trimethy...		2.449	2.394	2.735	2.477	2.666	2.761	3.058	2.619	8.77
71)	Benzyl chloride		0.938	1.082	1.415	1.294	1.615	1.807	1.721	1.436	21.65
72)	1,3-Dichlorobe...		1.954	1.872	1.885	1.788	1.927	1.886	1.659	1.840	5.40
73)	1,4-Dichlorobe...		1.479	1.638	1.927	1.838	1.859	1.960	2.149	1.882	12.81
74)	sec-Butylbenzene		3.652	4.074	3.874	3.439	3.798	3.820	4.140	3.698	11.60
75)	4-Isopropyltol...		3.822	3.546	3.761	3.470	3.689	3.601	3.527	3.530	8.78
76)	1,2-Dichlorobe...		1.651	1.747	1.850	1.765	1.831	1.794	1.562	1.699	9.23
77)	n-Butylbenzene		2.349	2.712	3.080	2.790	2.995	2.998	2.709	2.733	11.23
78)	1,2,4-Trichlor...		1.005	0.750	1.389	0.951	1.046	1.146	1.103	1.061	17.10
80)	Hexachlorobuta...		1.353	1.266	1.443	1.344	1.333	1.341	1.572	1.428	11.65

81)	int Bromochloromethane...	-----ISTD-----													
82)	1,2-Dichlorote...	4.696	5.208	6.220	4.747	4.618	4.487	4.391	4.802			7.958	4.710	5.184	21.33
83)	Vinyl Chloride...	1.738	1.680	1.754	1.813	1.693	1.725	1.615	1.770			1.494	1.742	1.702	5.34
84)	Bromomethane(sim)	1.990	1.862	2.065	1.607	1.886	1.680	1.652	1.794			2.269		1.867	11.53
85)	Trichlorofluor...	5.815	5.941	2.392	6.508	6.372	6.522	6.157	6.835			5.706	6.734	5.898	21.86
86)	1,2-Dichloroet...	1.264	1.161	1.754	1.627	1.257	1.292	1.189	1.199			1.433	1.442	1.362	14.64
87)	1,1,1-Trichlor...	1.662	1.603	1.865	1.755	1.737	1.899	1.738	2.000			1.738	2.038	1.803	7.89
88)	Benzene(sim)	2.388	2.962	2.602	2.729	2.618	2.428					2.528	3.278	2.691	11.06
89)	Carbon Tetrach...	1.498	1.457	1.635	1.640	1.610	1.882	1.640				1.546	1.735	1.627	7.82
90)	1,1-Dichloroet...	3.198	3.338	1.894	3.446	3.222	3.358	3.127	3.387			3.805	3.399	3.217	15.55
91)	Trichlorotrifl...	4.122	4.385	2.092	1.991	4.624	4.682	4.432	4.922			4.226	4.875	4.035	26.81
92)	Trans-1,2-Dich...	1.184	1.186	1.284	1.223	1.108	1.255	1.175	1.267			2.184	1.343	1.321	23.50
93)	1,1-Dichloroet...	1.541	1.521	1.684	1.644	1.632	1.630	1.553	1.735			1.567	1.758	1.626	5.03
94)	Cis-1,2-Dichlo...	1.271	1.205	1.724	1.675	1.080	1.094	1.253	1.366			1.150	1.902	1.372	21.19
95)	Chloroform(sim)	1.725	1.806	1.997	1.905	1.813	1.935	1.812	2.027			1.780	2.113	1.891	6.61

96) int 1,4-Difluorobenzen... -----ISTD-----

Response Factor Report CHEM20

Method Path : H:\AIR2023\CHEM20\Methods\													
Method File : 20_AIR_0303.M													
Title : VOA_Standards for 5 point calibration													
97)	1,2-dichloropr...	0.356	0.376	0.389	0.371	0.375	0.370	0.346	0.398	0.481	0.387	0.385	9.62
98)	Bromodichlorom...	0.464	0.364	0.614	0.437	0.557	0.556	0.530	0.615	0.497	0.429	0.506	16.40
99)	Trichloroethen...	0.443	0.461	0.494	0.488	0.463	0.471	0.450	0.522	0.495	0.552	0.484	6.98
100)	1,4-Dioxane(sim)			0.190	0.214	0.204	0.219	0.170	0.198			0.199	8.87
101)	cis-1,3-Dichlo...	0.365	0.403	0.430	0.424	0.409	0.448	0.418		0.367	0.589	0.428	15.49
102)	1,1,2-Trichlor...	0.297	0.284	0.380	0.351	0.365	0.315	0.325	0.348	0.331	0.301	0.330	9.45
103)	Dibromochlorom...	0.477	0.473	0.573	0.547	0.554	0.675	0.605		0.526	0.542	0.553	11.30
104)	1,2-Dibromoeth...	0.552	0.626	0.598	0.557	0.547	0.565	0.540	0.623	0.311	0.532	0.545	16.32
105)	Tetrachloroeth...	0.619	0.609	0.648	0.621	0.637	0.632	0.607	0.690	0.743	0.820	0.661	10.01

106)	int Chlorobenzene-d5(sim)	-----ISTD-----											
107)	Bromoform(sim)	0.956	0.784	1.068	1.062	1.104	1.449	1.241		1.083	1.190	1.104	16.74
108)	m,p-Xylene(sim)	2.264	2.409	2.313	2.029	2.188	2.173	2.005	2.146	2.694		2.247	9.39
109)	1,1,2,2-Tetrac...	1.585	1.691	1.980	1.837	1.879	2.000	1.806	1.933	1.910	2.473	1.909	12.36
112)	Benzyl chlorid...	0.916	0.891	1.131	1.023	1.082	1.393	1.285		0.448	0.957	1.014	26.64
113)	1,3-Dichlorobe...	1.765	1.776	1.911	1.987	2.146	2.367	2.159	2.301	2.263	2.195	2.087	10.31
114)	1,4-Dichlorobe...	1.905	1.637	1.540	1.479	1.638	1.927	1.839		1.950	2.172	1.788	12.68
115)	sec-Butylbenze...	3.614	3.485	4.018	3.956	4.021	4.081	3.776	4.045	3.690	4.281	3.897	6.31
116)	4-Isopropyltol...	4.416	2.920	3.432	3.681	3.578	3.761	3.463		3.719	3.744	3.635	10.79
117)	1,2-Dichlorobe...	1.702	1.842	1.943	2.001	2.044	2.301	2.026	2.169	2.160	2.527	2.071	11.27
118)	n-Butylbenzene...	2.622	2.537	2.666	2.349	2.712	3.080	2.790		4.464	2.549	2.863	22.10
119)	1,2,4-Trichlor...	0.902	0.896	0.870	0.959	1.060	1.713	1.244		1.530		1.147	27.95
120)	qfi Hexachlorobuta...	0.055	0.064	0.094	0.189	0.449	1.033	2.498		0.022	0.012	Coef R2	1.00

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

Response Factor Report Chem39

Method Path : H:\AIR2023\CHEM39\Methods\
 Method File : 39_AIR_0303.M
 Title : VOA Standards for 5 point calibration
 Last Update : Wed Mar 08 09:59:54 2023
 Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,g,qf) display calculated conc and corr. coefficient.)
 .035=0302_04.D 0.05=0302_05.D 0.10=0302_06.D 0.2=0302_07.D 0.5=0302_08.D 1.0=0302_13.D 2.5=0302_09.D 5.0=0302_10.D
 10=0302_14.D 25=0302_11.D 40=0302_12.D 0.02=0302_03.D 0.01=0302_02.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				0.535	0.487	0.503	0.459	0.473	0.462	0.461	0.464			0.480	5.57
3) Dichlorodifluo...				2.410	2.275	2.344	2.300	2.471	2.402	2.358	2.325			2.361	2.72
4) Chloromethane				0.705	0.572	0.586	0.543	0.567	0.531	0.534	0.543			0.573	9.94
5) 1,2-Dichlorote...				2.477	2.362	2.517	2.376	2.462	2.396	2.356	2.364			2.414	2.59
6) Vinyl Chloride				0.803	0.746	0.765	0.741	0.759	0.741	0.737	0.754			0.756	2.82
7) 1,3-Butadiene				0.513	0.509	0.544	0.510	0.510	0.503	0.504	0.512			0.513	2.53
8) Bromomethane				1.042	0.931	0.980	0.920	0.949	0.942	0.916	0.925			0.951	4.45
9) Chloroethane				0.398	0.356	0.346	0.337	0.350	0.334	0.336	0.337			0.349	6.06
11) Ethanol					0.173	0.215	0.181	0.173	0.177	0.162	0.157			0.177	10.66
12) Acetone						0.974	0.892	0.925	0.887	0.879	0.883			0.907	4.07
13) Trichlorofluor...				2.507	2.451	2.548	2.451	2.596	2.543	2.492	2.463			2.506	2.10
14) Isopropylalcohol					0.925	1.164	1.064	1.084	1.127	1.051	1.022			1.062	7.26
15) Acrylonitrile				0.589	0.498	0.497	0.476	0.478	0.475	0.472	0.476			0.495	7.89
16) 1,1-Dichloroet...				1.214	1.208	1.200	1.163	1.239	1.214	1.182	1.174			1.199	2.08
17) Methylene Chlo...				0.874	0.742	0.725	0.692	0.731	0.703	0.691	0.693			0.731	8.31
20) Carbon Disulfide				2.560	2.421	2.433	2.362	2.479	2.411	2.384	2.401			2.431	2.56
21) Trichlorotrifl...				2.150	2.120	2.143	2.101	2.197	2.131	2.080	2.061			2.123	2.02
22) Trans-1,2-Dich...				1.183	1.106	1.162	1.129	1.183	1.166	1.150	1.144			1.153	2.31
23) 1,1-Dichloroet...				1.444	1.392	1.442	1.396	1.483	1.433	1.411	1.396			1.425	2.22
24) Methyl tert-bu...				2.384	2.252	2.296	2.228	2.348	2.274	2.263	2.256			2.288	2.33
26) Methyl Ethyl K...				1.355	1.233	1.283	1.212	1.219	1.180	1.213	1.199			1.237	4.56
27) Cis-1,2-Dichlo...				1.136	1.073	1.111	1.049	1.115	1.101	1.087	1.092			1.095	2.45
28) Hexane				1.088	1.130	1.153	1.124	1.197	1.157	1.139	1.123			1.139	2.79
29) Chloroform				2.059	1.957	1.991	1.899	2.021	1.963	1.940	1.930			1.970	2.63
30) Ethyl acetate				0.352	0.344	0.376	0.341	0.357	0.339	0.336	0.330			0.347	4.18
31) Tetrahydrofuran				0.763	0.697	0.697	0.704	0.739	0.716	0.709	0.705			0.716	3.24
32) 1,2-Dichloroet...				1.040	0.993	1.028	1.002	1.065	1.048	1.033	1.024			1.029	2.27
33) 1,1,1-Trichlor...				1.956	1.934	2.000	1.975	2.080	2.026	2.005	2.005			1.998	2.23
34) Benzene				2.981	2.890	2.917	2.875	3.007	2.891	2.901	2.866			2.916	1.75
35) Carbon Tetrach...				2.332	2.192	2.359	2.272	2.403	2.346	2.320	2.297			2.315	2.75
36) Cyclohexane				1.413	1.118	1.141	1.114	1.142	1.133	1.113	1.118			1.162	8.80
37) Int 1,4-Difluorobenzene	-----ISTD-----														
38) 1,2-dichloropr...				0.290	0.270	0.274	0.264	0.273	0.266	0.263	0.262			0.270	3.38
39) Bromodichlorom...				0.586	0.540	0.549	0.536	0.564	0.546	0.532	0.533			0.548	3.36
40) Trichloroethene				0.430	0.439	0.458	0.444	0.458	0.448	0.436	0.437			0.444	2.27
42) 1,4-Dioxane				0.159	0.146	0.186	0.176	0.177	0.185	0.173	0.159			0.170	8.16
44) Heptane				0.367	0.322	0.321	0.314	0.329	0.322	0.316	0.311			0.325	5.50
45) cis-1,3-Dichlo...				0.405	0.412	0.424	0.415	0.439	0.435	0.429	0.430			0.423	2.75

Response Factor Report Chem39

Method Path : H:\AIR2023\CHEM39\Methods\

Method File : 39_AIR_0303.M

Title : VOA Standards for 5 point calibration

46)	4-Methyl-2-pen...	0.399	0.394	0.417	0.414	0.420	0.410	0.400	0.392		0.406	2.63
47)	trans-1,3-Dich...	0.380	0.375	0.382	0.371	0.398	0.396	0.395	0.400		0.387	2.95
48)	1,1,2-Trichlor...	0.362	0.340	0.362	0.345	0.360	0.355	0.349	0.348		0.353	2.40
49)	Toluene	1.060	1.010	1.043	1.013	1.071	1.046	1.029	1.031		1.038	2.05
50)	Dibromochlorom...	0.761	0.734	0.745	0.747	0.793	0.777	0.768	0.770		0.762	2.52
51)	2-Hexanone(MBK)	0.388	0.346	0.407	0.384	0.404	0.398	0.398	0.397		0.390	4.97
52)	1,2-Dibromoeth...	0.607	0.582	0.593	0.591	0.622	0.609	0.600	0.603		0.601	2.06
53)	Tetrachloroethene	0.648	0.670	0.687	0.669	0.702	0.681	0.675	0.677		0.676	2.33

54)	Int Chlorobenzene-d5	-----	ISTD	-----								
55)	1,1,1,2-Tetrac...		1.223	1.189	1.222	1.195	1.218	1.159	1.084	1.047	1.167	5.74
56)	Chlorobenzene		2.198	2.152	2.192	2.128	2.220	2.106	1.952	1.862	2.101	6.09
57)	Ethylbenzene	3.050	3.091	2.992	3.097	3.039	3.202	3.066	2.880	2.735	3.017	4.53
58)	m,p-Xylene	2.424	2.421	2.366	1.981	2.464	2.576	2.444	2.276	2.129	2.342	7.89
59)	Bromoform		2.258	2.197	2.308	2.257	2.351	2.266	2.127	2.039	2.225	4.54
60)	Styrene		1.814	1.825	1.952	1.965	2.053	1.992	1.890	1.814	1.913	4.76
61)	1,1,2,2-Tetrac...		1.888	1.898	1.920	1.837	1.907	1.800	1.656	1.562	1.809	7.27
62)	o-Xylene	2.408	2.311	2.443	2.507	2.523	2.623	2.474	2.292	2.185	2.419	5.59
63)	Surr% Bromofluorob...		1.490	1.517	1.520	1.519	1.505	1.490	1.430	1.363	1.479	3.75
65)	Isopropylbenzene		3.532	3.550	3.658	3.635	3.729	3.576	3.311	3.134	3.516	5.62
67)	4-Ethyltoluene		3.739	3.779	3.973	3.961	4.185	3.892	3.674	3.429	3.829	5.95
68)	1,3,5-Trimethy...		2.869	2.872	3.070	3.101	3.153	3.061	2.850	2.747	2.965	4.98
69)	1,2,4-Trimethy...		2.992	3.100	3.308	3.292	3.381	3.237	3.046	2.861	3.152	5.72
71)	Benzyl chloride		2.410	2.380	2.551	2.548	2.674	2.584	2.505	2.411	2.508	4.05
72)	1,3-Dichlorobe...		2.791	2.787	2.895	2.815	2.887	2.711	2.553	2.395	2.729	6.34
73)	1,4-Dichlorobe...		2.440	2.383	2.648	2.533	2.590	2.526	2.371	2.271	2.470	5.10
74)	sec-Butylbenzene		4.251	4.425	4.598	4.644	4.812	4.567	4.251	3.911	4.432	6.45
75)	4-Isopropyltol...		4.035	4.229	4.515	4.495	4.700	4.510	4.177	3.891	4.319	6.45
76)	1,2-Dichlorobe...		2.662	2.530	2.684	2.570	2.637	2.559	2.413	2.306	2.545	5.08
77)	n-Butylbenzene		3.338	3.308	3.602	3.568	3.735	3.608	3.375	3.158	3.462	5.63
78)	1,2,4-Trichlor...		2.479	2.537	2.966	2.606	2.351	2.424	2.328	2.233	2.490	9.09
80)	Hexachlorobuta...		2.770	2.690	2.914	2.647	2.404	2.422	2.298	2.201	2.543	9.77

81)	int Bromochloromethane...	-----ISTD-----												
82)	1,2-Dichlorote...	3.159	2.736	2.563	2.635	2.527	2.674	2.543	2.631		3.216	3.367	2.805	11.25
83)	Vinyl Chloride...	1.000	0.940	0.882	0.839	0.802	0.849	0.807	0.843		1.054	1.096	0.911	11.61
84)	Bromomethane(sim)	1.179	1.119	0.986	1.109	0.996	1.042	0.985	1.014		1.439	1.379	1.125	14.56
85)	Trichlorofluor...	2.927	2.876	2.573	2.661	2.595	2.696	2.636	2.773		3.133	3.184	2.806	7.81
86)	1,2-Dichloroet...	1.336	1.167	1.167	1.107	1.063	1.093	1.073	1.138		1.333	1.440	1.192	11.00
87)	1,1,1-Trichlor...	2.378	2.309		2.189	2.145	2.106	2.198	2.201	2.314	2.639	2.619	2.310	8.11
88)	Benzene(sim)			3.629	3.171	3.092	3.102	3.078					3.215	7.30
89)	Carbon Tetrach...	2.615	2.504	2.387	2.355	2.298	2.368	2.345			2.844	2.894	2.512	8.92
90)	1,1-Dichloroet...	1.661	1.471	1.360	1.291	1.292	1.276	1.246	1.325		1.782	1.721	1.443	14.13
91)	Trichlorotrifl...	2.564	2.436	2.297	2.267	2.207	2.257	2.213	2.313		2.815	2.848	2.422	9.97
92)	Trans-1,2-Dich...	1.439	1.379	1.250	1.259	1.183	1.236	1.209	1.265		1.638	1.515	1.337	11.25
93)	1,1-Dichloroet...	1.800	1.696	1.604	1.581	1.548	1.579	1.560	1.632		1.973	2.027	1.700	10.31
94)	Cis-1,2-Dichlo...	1.381	1.206	1.190	1.208	1.148	1.181	1.123	1.192		1.453	1.474	1.256	10.28
95)	Chloroform(sim)	2.800	2.539	2.308	2.171	2.089	2.124	2.082	2.186		3.290		2.399	17.14

96) int 1,4-Difluorobenzen... -----ISTD-----

Response Factor Report Chem39

Method	Path : H:\AIR2023\CHEM39\Methods\												
Method	File : 39_AIR_0303.M												
Title	: VOA_Standards for 5 point calibration												
97)	1,2-dichloropr...	0.344	0.317	0.296	0.285	0.275	0.279	0.272	0.284	0.375	0.371	0.310	12.84
98)	Bromodichlorom...	0.647	0.571	0.567	0.586	0.540	0.549	0.536	0.564	0.668	0.688	0.592	9.39
99)	Trichloroethen...	0.484	0.458	0.437	0.422	0.418	0.428	0.417	0.438	0.531	0.549	0.458	10.44
100)	1,4-Dioxane(sim)			0.181	0.159	0.146	0.186	0.176	0.177			0.171	8.77
101)	cis-1,3-Dichlo...	0.489	0.453	0.436	0.429	0.424	0.436	0.432		0.544	0.537	0.464	10.20
102)	1,1,2-Trichlor...	0.404	0.429	0.354	0.362	0.340	0.362	0.345	0.360	0.472	0.447	0.388	12.16
103)	Dibromochlorom...	0.781	0.740	0.713	0.703	0.694	0.718	0.703		0.845	0.853	0.750	8.24
104)	1,2-Dibromoeth...	0.668	0.589	0.593	0.610	0.582	0.593	0.591	0.622	0.724	0.733	0.630	9.11
105)	Tetrachloroeth...	0.725	0.683	0.640	0.612	0.603	0.620	0.607	0.636	0.814	0.903	0.678	14.47
106)	int Chlorobenzene-d5(sim)	-----ISTD-----											
107)	Bromoform(sim)	2.102	2.037	1.929	1.904	1.892	1.964	1.942		2.255	2.435	2.051	9.01
108)	m,p-Xylene(sim)			2.424	2.421	2.376	2.483	2.476	2.580			2.460	2.88
109)	1,1,2,2-Tetrac...	2.130	1.996	1.905	1.853	1.822	1.897	1.861	1.899	2.271	2.441	2.007	10.32
112)	Benzyl chlorid...	2.830	2.503	2.338	2.410	2.374	2.551	2.548		3.051	3.414	2.669	13.56
113)	1,3-Dichlorobe...	2.944	2.805	2.666	2.639	2.635	2.771	2.704	2.779	3.177	3.617	2.874	10.74
114)	1,4-Dichlorobe...	2.946	2.562	2.446	2.440	2.378	2.648	2.532		3.202	3.997	2.794	18.77
115)	sec-Butylbenze...	3.508	3.274	3.098	3.110	3.191	3.436	3.445	3.558	3.774		3.377	6.70
116)	4-Isopropyltol...	4.581	4.423	3.922	4.035	4.219	4.515	4.496	4.698			4.361	6.30
117)	1,2-Dichlorobe...	2.911	2.752	2.564	2.549	2.545	2.702	2.622	2.679	3.143	3.666	2.813	12.54
118)	n-Butylbenzene...		3.473	3.233	3.338	3.300	3.602	3.568				3.419	4.41
119)	1,2,4-Trichlor...	2.838	2.695	2.363	2.426	2.449	2.868	2.541		3.179		2.670	10.46
121)	Hexachlorobuta...	2.735	2.590	2.378	2.348	2.315	2.516	2.347		2.990		2.527	9.38

(#,\$,@)=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: RTX-1 60M

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 18:49
Calibration Date Thru: 03/02/23 22:36
Method File: 20_AIR_0303.M

Laboratory File Ids

RRF1	<u>0302_06.D</u>	RRF2	<u>0302_07.D</u>	RRF3	<u>0302_08.D</u>	RRF4	<u>0302_09.D</u>	RRF5	<u>0302_10.D</u>	RRF6	<u>0302_11.D</u>			
RRF7	<u>0302_12.D</u>	RRF8	<u>0302_17.D</u>	RRF9	<u>0302_13.D</u>	RRF10	<u>0302_14.D</u>	RRF11	<u>0302_18.D</u>	RRF12	<u>0302_15.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
Propylene						1.033	1.146	1.011	0.917	0.979	0.759	0.418	0.895	26.96
Dichlorodifluoromethane						3.462	3.863	3.863	3.416	3.780	3.473	3.201	3.512	8.69
Chloromethane						2.014	1.866	1.956	1.703	1.873	1.736	1.552	1.760	12.13
1,2-Dichlorotetrafluoroethane						6.337	5.839	5.311	5.449	5.717	5.645	5.179	5.525	8.70
Vinyl Chloride						2.246	2.322	2.094	1.941	1.940	1.919	1.709	1.959	13.76
1,3-Butadiene						2.369	1.664	1.549	1.632	1.730	1.566	1.423	1.646	20.10
Bromomethane						1.927	2.356	1.994	2.043	2.135	2.029	1.833	1.995	10.56
Chloroethane						0.261	0.861	0.977	0.821	0.961	0.887	0.778	0.781	29.28
Ethanol								0.831	0.791	0.718	0.686	0.635	0.698	15.65
Acetone						5.853	4.899	4.478	4.389	4.514	4.335	3.935	4.478	15.83
Trichlorofluoromethane						7.453	7.103	7.029	7.072	7.484	7.289	6.767	7.029	6.62
Isopropylalcohol						5.666	4.888	5.102	4.846	5.026	4.786	4.293	4.774	12.82
Acrylonitrile						2.280	2.040	1.870	1.711	1.833	1.615	1.505	1.771	17.28
1,1-Dichloroethene						4.131	4.026	3.986	3.868	4.030	3.958	3.595	3.848	8.05
Methylene Chloride						3.741	3.471	3.086	3.146	3.269	3.128	2.869	3.153	11.68
Carbon Disulfide						3.171	5.732	5.615	5.326	5.797	5.477	5.097	5.104	17.04
Trichlorotrifluoroethane						2.348	5.704	5.119	5.040	5.459	5.227	5.036	4.821	21.74
Trans-1,2-Dichloroethene						1.466	1.385	1.490	1.454	1.507	1.492	1.341	1.448	4.28
1,1-Dichloroethane						2.378	2.038	1.952	1.801	1.961	1.893	1.781	1.925	11.85
Methyl tert-butyl ether(MTBE)						2.723	2.521	2.515	2.471	2.616	2.523	2.442	2.513	5.03
Methyl Ethyl Ketone						2.735	3.026	2.676	2.745	2.790	2.673	2.552	2.681	8.23
Cis-1,2-Dichloroethene						2.007	1.350	1.299	1.550	1.625	1.442	1.374	1.492	16.07
Hexane						2.030	1.782	1.795	1.782	1.810	1.841	1.756	1.805	5.93
Chloroform						2.361	1.999	2.068	1.962	2.206	2.166	2.054	2.085	7.50
Ethyl acetate						0.561	0.524	0.485	0.426	0.497	0.448	0.456	0.479	9.69

(#) 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

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM20
Heated Purge (Y/N): Y
GC Column: RTX-1 60M

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 18:49
Calibration Date Thru: 03/02/23 22:36
Method File: 20_AIR_0303.M

Laboratory File Ids

RRF1	<u>0302_06.D</u>	RRF2	<u>0302_07.D</u>	RRF3	<u>0302_08.D</u>	RRF4	<u>0302_09.D</u>	RRF5	<u>0302_10.D</u>	RRF6	<u>0302_11.D</u>				
RRF7	<u>0302_12.D</u>	RRF8	<u>0302_17.D</u>	RRF9	<u>0302_13.D</u>	RRF10	<u>0302_14.D</u>	RRF11	<u>0302_18.D</u>	RRF12	<u>0302_15.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	
Tetrahydrofuran						2.241	1.731	1.526	1.492	1.623	1.546	1.439	1.610	17.82	
1,2-Dichloroethane						1.951	1.570	1.534	1.471	1.426	1.453	1.345	1.500	13.90	
1,1,1-Trichloroethane						2.083	2.198	1.951	1.971	2.068	2.458	2.058	2.128	7.77	
Benzene					3.133	3.272	3.271	2.882	2.846	3.105	3.006	2.877	2.995	7.69	
Carbon Tetrachloride						1.575	1.746	2.042	1.847	2.047	2.133	2.144	1.956	10.72	
Cyclohexane						1.545	1.275	1.168	1.120	1.242	1.233	1.077	1.204	14.12	
1,2-dichloropropane						0.433	0.426	0.331	0.342	0.391	0.342	0.366	0.372	10.74	
Bromodichloromethane						0.455	0.557	0.563	0.530	0.615	0.606	0.741	0.618	21.58	
Trichloroethene						0.449	0.378	0.366	0.376	0.430	0.422	0.527	0.452	22.67	
1,4-Dioxane						0.214	0.204	0.219	0.170	0.198	0.175	0.227	0.209	14.69	
Heptane						0.717	0.591	0.637	0.589	0.673	0.599	0.641	0.638	6.97	
cis-1,3-Dichloropropene						0.395	0.396	0.461	0.397	0.473	0.449	0.515	0.456	13.50	
4-Methyl-2-pentanone(MIBK)						1.035	0.903	0.920	0.871	0.999	0.932	1.024	0.974	8.21	
trans-1,3-Dichloropropene						0.386	0.367	0.367	0.380	0.433	0.419	0.441	0.407	8.94	
1,1,2-Trichloroethane						0.419	0.358	0.315	0.325	0.349	0.331	0.348	0.350	9.06	
Toluene						0.948	1.031	0.973	0.942	1.072	0.980	1.020	1.001	4.70	
Dibromochloromethane						0.475	0.431	0.577	0.483	0.644	0.649	0.760	0.606	23.43	
2-Hexanone(MBK)							0.738	0.824	0.770	0.934	0.853	0.895	0.846	8.62	
1,2-Dibromoethane(EDB)						0.557	0.541	0.570	0.541	0.623	0.585	0.623	0.586	6.89	
Tetrachloroethene						0.468	0.466	0.492	0.440	0.530	0.489	0.567	0.511	12.46	
1,1,1,2-Tetrachloroethane						0.874	0.720	1.013	0.857	0.948	0.978	0.902	0.893	10.19	
Chlorobenzene						1.549	1.807	1.814	1.679	1.707	1.666	1.418	1.617	11.40	
Ethylbenzene					2.745	3.140	2.774	2.840	2.518	2.620	2.569	2.125	2.568	15.65	
m,p-Xylene					2.310	1.938	2.141	1.706	1.971	2.117	2.016	1.848	1.953	12.08	
Bromoform						0.859	0.910	1.095	0.940	1.142	1.243	1.176	1.065	13.33	

(#) 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: RTX-1 60M

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 18:49
Calibration Date Thru: 03/02/23 22:36
Method File: 20_AIR_0303.M

Laboratory File Ids

RRF1	0302_06.D	RRF2	0302_07.D	RRF3	0302_08.D	RRF4	0302_09.D	RRF5	0302_10.D	RRF6	0302_11.D				
RRF7	0302_12.D	RRF8	0302_17.D	RRF9	0302_13.D	RRF10	0302_14.D	RRF11	0302_18.D	RRF12	0302_15.D				
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							1.998	1.523	1.762	1.472	1.609	1.504	1.233	1.514	20.00
1,1,2,2-Tetrachloroethane							1.790	1.783	1.925	1.675	1.761	1.763	1.644	1.740	6.13
o-Xylene						2.663	1.970	2.199	2.238	2.048	2.102	2.106	2.037	2.147	10.02
Isopropylbenzene							3.027	2.770	2.900	2.738	2.904	2.727	2.390	2.689	11.77
4-Ethyltoluene							3.138	3.317	2.824	3.187	3.314	3.264	2.748	3.012	11.89
1,3,5-Trimethylbenzene							2.364	2.432	2.446	2.107	2.288	2.088	1.915	2.179	11.16
1,2,4-Trimethylbenzene							2.449	2.394	2.735	2.477	2.666	2.761	3.058	2.619	8.77
Benzyl chloride							0.938	1.082	1.415	1.294	1.615	1.807	1.721	1.436	21.65
1,3-Dichlorobenzene							1.954	1.872	1.885	1.788	1.927	1.886	1.659	1.840	5.40
1,4-Dichlorobenzene							1.479	1.638	1.927	1.838	1.859	1.960	2.149	1.882	12.81
sec-Butylbenzene							3.652	4.074	3.874	3.439	3.798	3.820	4.140	3.698	11.60
4-Isopropyltoluene							3.822	3.546	3.761	3.470	3.689	3.601	3.527	3.530	8.78
1,2-Dichlorobenzene							1.651	1.747	1.850	1.765	1.831	1.794	1.562	1.699	9.23
n-Butylbenzene							2.349	2.712	3.080	2.790	2.995	2.998	2.709	2.733	11.23
1,2,4-Trichlorobenzene							1.005	0.750	1.389	0.951	1.046	1.146	1.103	1.061	17.10
Hexachlorobutadiene							1.353	1.266	1.443	1.344	1.333	1.341	1.572	1.428	11.65
1,2-Dichlorotetrafluoroethane(sim)		4.710	7.958	4.696	5.208	6.220	4.747	4.618	4.487	4.391	4.802			5.184	21.33
Vinyl Chloride(sim)		1.742	1.494	1.738	1.680	1.754	1.813	1.693	1.725	1.615	1.770			1.702	5.34
Bromomethane(sim)			2.269	1.990	1.862	2.065	1.607	1.886	1.680	1.652	1.794			1.867	11.53
Trichlorofluoromethane(sim)		6.734	5.706	5.815	5.941	2.392	6.508	6.372	6.522	6.157	6.835			5.898	21.86
1,2-Dichloroethane(sim)		1.442	1.433	1.264	1.161	1.754	1.627	1.257	1.292	1.189	1.199			1.362	14.64
1,1,1-Trichloroethane(sim)		2.038	1.738	1.662	1.603	1.865	1.755	1.737	1.899	1.738	2.000			1.803	7.89
Benzene(sim)		3.278	2.528	2.388	2.962	2.602	2.729	2.618	2.428					2.691	11.06
Carbon Tetrachloride(sim)		1.735	1.546	1.498	1.457	1.635	1.640	1.610	1.882	1.640				1.627	7.82
1,1-Dichloroethene(sim)		3.399	3.805	3.198	3.338	1.894	3.446	3.222	3.358	3.127	3.387			3.217	15.55

(#) 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, fi2, 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: RTX-1 60M

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 18:49
Calibration Date Thru: 03/02/23 22:36
Method File: 20_AIR_0303.M

Laboratory File Ids

RRF1	0302_06.D	RRF2	0302_07.D	RRF3	0302_08.D	RRF4	0302_09.D	RRF5	0302_10.D	RRF6	0302_11.D				
RRF7	0302_12.D	RRF8	0302_17.D	RRF9	0302_13.D	RRF10	0302_14.D	RRF11	0302_18.D	RRF12	0302_15.D				
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)		4.875	4.226	4.122	4.385	2.092	1.991	4.624	4.682	4.432	4.922			4.035	26.81
Trans-1,2-Dichloroethene(sim)		1.343	2.184	1.184	1.186	1.284	1.223	1.108	1.255	1.175	1.267			1.321	23.50
1,1-Dichloroethane(sim)		1.758	1.567	1.541	1.521	1.684	1.644	1.632	1.630	1.553	1.735			1.626	5.03
Cis-1,2-Dichloroethene(sim)		1.902	1.150	1.271	1.205	1.724	1.675	1.080	1.094	1.253	1.366			1.372	21.19
Chloroform(sim)		2.113	1.780	1.725	1.806	1.997	1.905	1.813	1.935	1.812	2.027			1.891	6.61
1,2-dichloropropane(sim)		0.387	0.481	0.356	0.376	0.389	0.371	0.375	0.370	0.346	0.398			0.385	9.62
Bromodichloromethane(sim)		0.429	0.497	0.464	0.364	0.614	0.437	0.557	0.556	0.530	0.615			0.506	16.40
Trichloroethene(sim)		0.552	0.495	0.443	0.461	0.494	0.488	0.463	0.471	0.450	0.522			0.484	6.98
1,4-Dioxane(sim)						0.190	0.214	0.204	0.219	0.170	0.198			0.199	8.87
cis-1,3-Dichloropropene(sim)		0.589	0.367	0.365	0.403	0.430	0.424	0.409	0.448	0.418				0.428	15.49
1,1,2-Trichloroethane(sim)		0.301	0.331	0.297	0.284	0.380	0.351	0.365	0.315	0.325	0.348			0.330	9.45
Dibromochloromethane(sim)		0.542	0.526	0.477	0.473	0.573	0.547	0.554	0.675	0.605				0.553	11.30
1,2-Dibromoethane(EDB)(sim)		0.532	0.311	0.552	0.626	0.598	0.557	0.547	0.565	0.540	0.623			0.545	16.32
Tetrachloroethene(sim)		0.820	0.743	0.619	0.609	0.648	0.621	0.637	0.632	0.607	0.690	0.643		0.661	10.01
Bromoform(sim)		1.190	1.083	0.956	0.784	1.068	1.062	1.104	1.449	1.241				1.104	16.74
m,p-Xylene(sim)			2.694	2.264	2.409	2.313	2.029	2.188	2.173	2.005	2.146			2.247	9.39
1,1,2,2-Tetrachloroethane(sim)		2.473	1.910	1.585	1.691	1.980	1.837	1.879	2.000	1.806	1.933			1.909	12.36
Benzyl chloride(sim)		0.957	0.448	0.916	0.891	1.131	1.023	1.082	1.393	1.285				1.014	26.64
1,3-Dichlorobenzene(sim)		2.195	2.263	1.765	1.776	1.911	1.987	2.146	2.367	2.159	2.301			2.087	10.31
1,4-Dichlorobenzene(sim)		2.172	1.950	1.905	1.637	1.540	1.479	1.638	1.927	1.839				1.788	12.68
sec-Butylbenzene(sim)		4.281	3.690	3.614	3.485	4.018	3.956	4.021	4.081	3.776	4.045			3.897	6.31
4-Isopropyltoluene(sim)		3.744	3.719	4.416	2.920	3.432	3.681	3.578	3.761	3.463				3.635	10.79
1,2-Dichlorobenzene(sim)		2.527	2.160	1.702	1.842	1.943	2.001	2.044	2.301	2.026	2.169			2.071	11.27
n-Butylbenzene(sim)		2.549	4.464	2.622	2.537	2.666	2.349	2.712	3.080	2.790				2.863	22.10
1,2,4-Trichlorobenzene(sim)			1.530	0.902	0.896	0.870	0.959	1.060	1.713	1.244				1.147	27.95

(#) 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

Method File: 20 AIR 0303.M

[illegible]

Page 269 of 553

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_06.D
 Acq On : 2 Mar 2023 4:10 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ppbV ; AirT01501Y
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 03 11:54:11 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:52:28 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.520	130	363644	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.674	114	1455841	10.000	ng	0.00
54) Chlorobenzene-d5	11.134	82	637499	10.000	ng	0.00
81) Bromochloromethane(sim)	7.526	130	436299	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.674	114	1456546	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.134	82	637236	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.954 95 763090 11.173 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 111.70%

Target Compounds					Qvalue
2) Propylene	4.078	41	2618	0.080	ppbv# 70
3) Dichlorodifluoromethane	4.164	85	3622	0.028	ppbv# 1
4) Chloromethane	4.347	50	4662	0.073	ppbv# 48
5) 1,2-Dichlorotetrafluor...	4.390	85	7067	0.035	ppbv# 53
6) Vinyl Chloride	4.520	62	2239	0.031	ppbv 79
7) 1,3-Butadiene	4.628	54	1921	0.032	ppbv# 1
8) Bromomethane	4.843	94	3218	0.044	ppbv# 77
9) Chloroethane	4.973	64	2730	0.096	ppbv 94
11) Ethanol	5.134	45	4380	0.173	ppbv# 50
12) Acetone	5.511	43	5518	0.034	ppbv# 57
13) Trichlorofluoromethane	5.587	101	2596	0.010	ppbv# 1
14) Isopropylalcohol	5.705	45	5635	0.032	ppbv# 56
15) Acrylonitrile	5.824	53	2336	0.036	ppbv# 1
16) 1,1-Dichloroethene	6.046	61	2415	0.017	ppbv# 9
17) Methylene Chloride	6.124	49	5210	0.045	ppbv# 86
20) Carbon Disulfide	6.356	76	4627	0.025	ppbv# 1
21) Trichlorotrifluoroethane	6.305	101	1712	0.010	ppbv# 13
22) Trans-1,2-Dichloroethene	6.721	61	372	0.007	ppbv# 1
23) 1,1-Dichloroethane	6.879	63	976	0.014	ppbv 80
24) Methyl tert-butyl ethe...	6.950	73	902	0.010	ppbv# 24
26) Methyl Ethyl Ketone	7.154	43	2400	0.025	ppbv# 63
27) Cis-1,2-Dichloroethene	7.427	61	561	0.010	ppbv# 14
28) Hexane	7.531	57	1134	0.017	ppbv# 1
29) Chloroform	7.604	83	984	0.013	ppbv# 70
30) Ethyl acetate	7.520	61	221	0.013	ppbv# 79
31) Tetrahydrofuran	7.885	42	1549	0.026	ppbv# 64
32) 1,2-Dichloroethane	8.073	62	752	0.014	ppbv# 1
33) 1,1,1-Trichloroethane	8.218	97	895	0.012	ppbv# 66
34) Benzene	8.482	78	2505	0.023	ppbv# 52
35) Carbon Tetrachloride	8.493	117	149	0.002	ppbv# 10
36) Cyclohexane	8.686	84	1954	0.045	ppbv# 1
38) 1,2-dichloropropane	8.969	63	458	0.008	ppbv# 1
39) Bromodichloromethane	9.070	83	889	0.010	ppbv 77
40) Trichloroethene	9.093	130	676	0.010	ppbv# 15
42) 1,4-Dioxane	9.150	88	1480	0.049	ppbv# 23
44) Heptane	9.240	43	2626	0.028	ppbv# 73
45) cis-1,3-Dichloropropene	9.594	75	866	0.013	ppbv# 46
46) 4-Methyl-2-pentanone(M...	9.614	43	1546	0.011	ppbv# 82
47) trans-1,3-Dichloropropene	9.876	75	729	0.012	ppbv# 44
48) 1,1,2-Trichloroethane	9.992	97	88	0.002	ppbv# 1
49) Toluene	10.157	91	1667	0.011	ppbv# 83
50) Dibromochloromethane	10.390	129	1392	0.016	ppbv# 20

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_06.D
 Acq On : 2 Mar 2023 4:10 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ppbV ; AirT01501Y
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 03 11:54:11 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:52:28 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.264	43	1306	0.011	ppbv#	44
52)	1,2-Dibromoethane(EDB)	10.545	107	1925	0.023	ppbv#	41
53)	Tetrachloroethene	10.788	166	689	0.009	ppbv#	40
55)	1,1,1,2-Tetrachloroethane	11.145	131	528	0.009	ppbv#	40
56)	Chlorobenzene	11.155	112	2319	0.022	ppbv#	1
57)	Ethylbenzene	11.349	91	3371	0.021	ppbv#	49
58)	m,p-Xylene	11.442	91	3583	0.029	ppbv#	77
59)	Bromoform	11.534	173	1044	0.015	ppbv#	27
60)	Styrene	11.667	104	1267	0.013	ppbv#	40
61)	1,1,2,2-Tetrachloroethane	11.708	83	2306	0.021	ppbv#	79
62)	o-Xylene	11.698	91	1804	0.013	ppbv#	75
65)	Isopropylbenzene	12.016	105	1517	0.009	ppbv#	72
67)	4-Ethyltoluene	12.395	105	6312	0.033	ppbv#	81
68)	1,3,5-Trimethylbenzene	12.395	105	6312	0.045	ppbv#	62
69)	1,2,4-Trimethylbenzene	12.703	105	2926	0.018	ppbv#	62
71)	Benzyl chloride	12.785	91	359	0.004	ppbv#	1
72)	1,3-Dichlorobenzene	12.795	146	1256	0.011	ppbv#	79
73)	1,4-Dichlorobenzene	12.877	146	893	0.007	ppbv#	78
74)	sec-Butylbenzene	12.836	105	3252	0.014	ppbv#	85
75)	4-Isopropyltoluene	12.939	119	2767	0.012	ppbv#	74
76)	1,2-Dichlorobenzene	13.052	146	2456	0.023	ppbv#	78
77)	n-Butylbenzene	13.206	91	3225	0.019	ppbv#	37
78)	1,2,4-Trichlorobenzene	14.273	180	1044	0.015	ppbv#	54
80)	Hexachlorobutadiene	14.581	225	2071	0.023	ppbv#	56
82)	1,2-Dichlorotetrafluor...	4.407	85	2055m	0.009	ppbv	52
83)	Vinyl Chloride(sim)	4.515	62	760m	0.010	ppbv	90
84)	Bromomethane(sim)	4.881	94	1122m	0.014	ppbv	76
85)	Trichlorofluoromethane...	5.603	101	2938	0.011	ppbv#	88
86)	1,2-Dichloroethane(sim)	8.057	62	629m	0.011	ppbv	1
87)	1,1,1-Trichloroethane(...	8.224	97	889	0.011	ppbv#	79
88)	Benzene(sim)	8.510	78	1430m	0.012	ppbv	52
89)	Carbon Tetrachloride(sim)	8.589	117	757	0.011	ppbv#	78
90)	1,1-Dichloroethene(sim)	6.043	61	1483m	0.011	ppbv	1
91)	Trichlorotrifluoroetha...	6.302	101	2127	0.012	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.758	61	586m	0.010	ppbv	1
93)	1,1-Dichloroethane(sim)	6.892	63	767	0.011	ppbv#	75
94)	Cis-1,2-Dichloroethene...	7.411	61	830m	0.014	ppbv	13
95)	Chloroform(sim)	7.599	83	922	0.011	ppbv#	71
97)	1,2-dichloropropane(sim)	8.974	63	563m	0.010	ppbv	98
98)	Bromodichloromethane(sim)	9.087	83	625m	0.008	ppbv	54
99)	Trichloroethene(sim)	9.110	130	804m	0.011	ppbv	91
100)	1,4-Dioxane(sim)	9.144	88	494m	0.017	ppbv	25
101)	cis-1,3-Dichloropropen...	9.600	75	858	0.014	ppbv	92
102)	1,1,2-Trichloroethane(...	9.998	97	439m	0.009	ppbv	1
103)	Dibromochloromethane(sim)	10.405	129	790	0.010	ppbv	83
104)	1,2-Dibromoethane(EDB)...	10.551	107	775m	0.010	ppbv	41
105)	Tetrachloroethene(sim)	10.784	166	1195	0.012	ppbv	89
107)	Bromoform(sim)	11.529	173	758	0.011	ppbv	94
108)	m,p-Xylene(sim)	11.447	91	2819m	0.020	ppbv	79
109)	1,1,2,2-Tetrachloroeth...	11.704	83	1576	0.013	ppbv	79
112)	Benzyl chloride(sim)	12.780	91	610m	0.009	ppbv	1
113)	1,3-Dichlorobenzene(sim)	12.811	146	1399	0.011	ppbv	94
114)	1,4-Dichlorobenzene(sim)	12.852	146	1384m	0.012	ppbv	78
115)	sec-Butylbenzene(sim)	12.842	105	2728	0.011	ppbv	87
116)	4-Isopropyltoluene(sim)	12.939	119	2386	0.010	ppbv#	75

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_06.D
Acq On : 2 Mar 2023 4:10 pm
Operator :
Client ID : ICAL 0.01
Lab ID : 0.01 ppbV ; AirT01501Y
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 03 11:54:11 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:52:28 2023
Response via : Initial Calibration

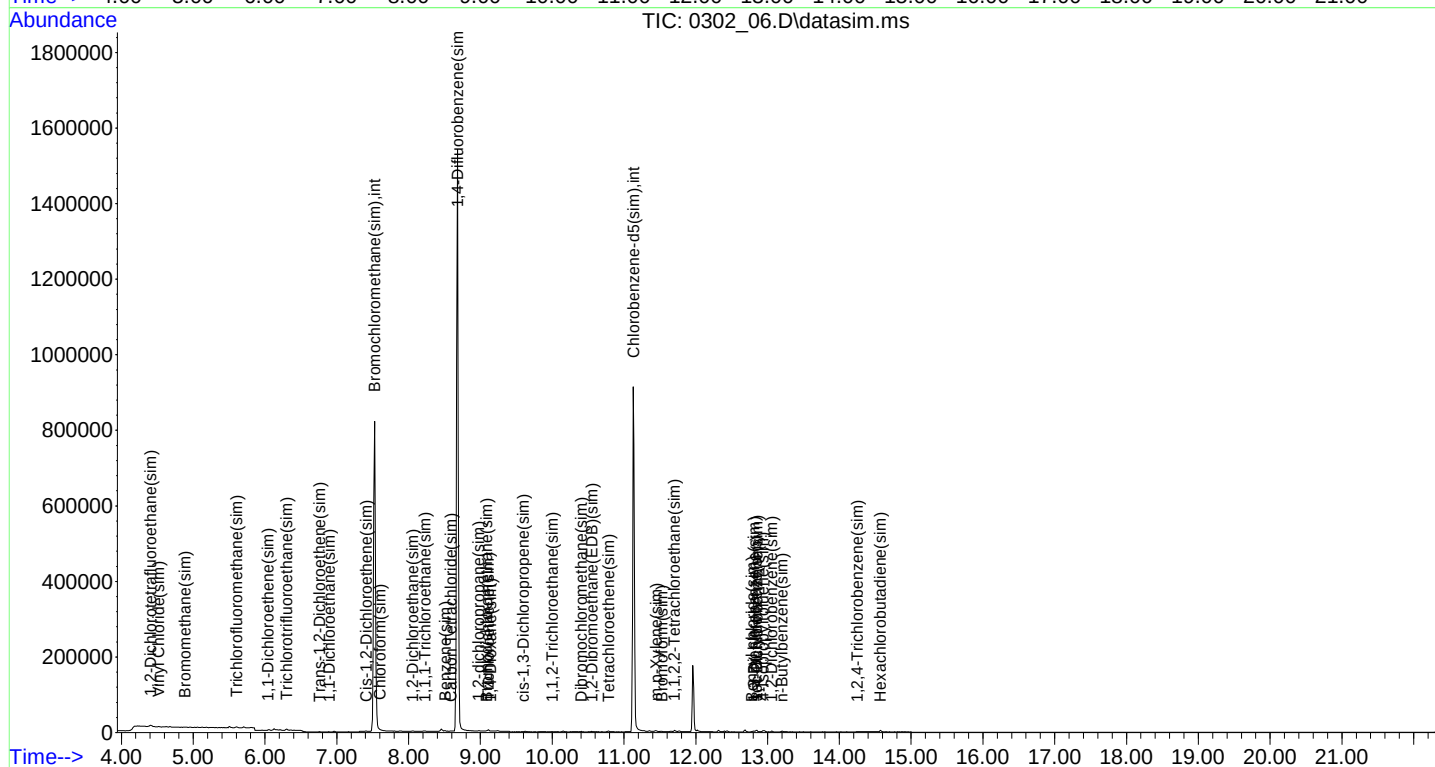
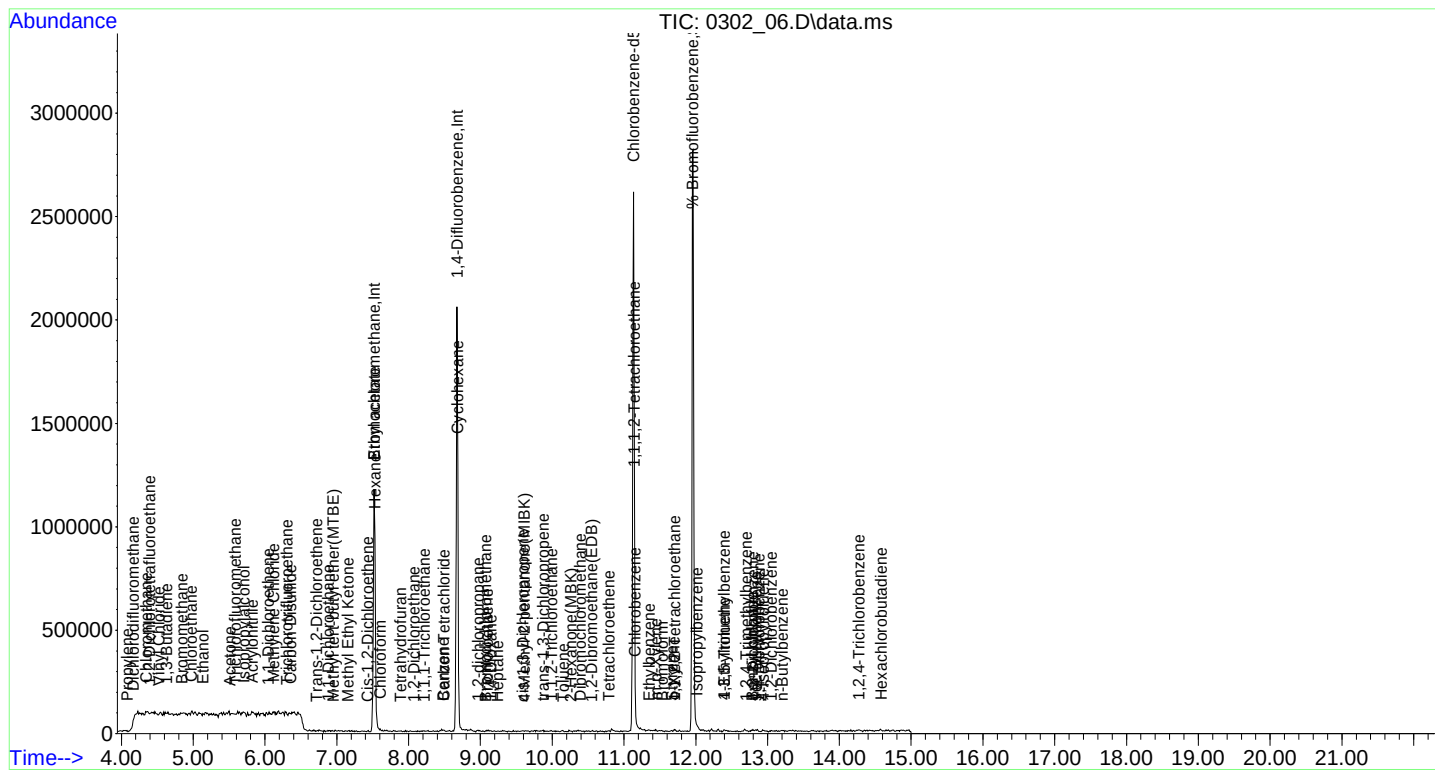
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.057	146	1610m	0.012	ppbv	88
118]	n-Butylbenzene(sim)	13.201	91	1624m	0.009	ppbv	37
119]	1,2,4-Trichlorobenzene...	14.248	180	1479	0.020	ppbv	87
120]	Hexachlorobutadiene(sim)	14.571	225	1081	0.012	ppbv#	76

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_06.D
 Acq On : 2 Mar 2023 4:10 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ppbV ; AirT01501Y
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 03 11:54:11 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 10:52:28 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_07.D
 Acq On : 2 Mar 2023 4:41 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:01:05 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:54:24 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	362871	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1437292	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	621495	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	442706	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1435377	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	621203	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 764734 11.486 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 114.90%

Target Compounds					Qvalue
2) Propylene	4.078	41	1602	0.049	ppbv# 15
3) Dichlorodifluoromethane	4.154	85	3565	0.028	ppbv# 55
4) Chloromethane	4.315	50	2362	0.037	ppbv 75
5) 1,2-Dichlorotetrafluor...	4.391	85	7098	0.035	ppbv# 61
6) Vinyl Chloride	4.531	62	1760	0.025	ppbv# 40
7) 1,3-Butadiene	4.639	54	3125	0.052	ppbv# 7
8) Bromomethane	4.865	94	2009	0.028	ppbv# 42
9) Chloroethane	4.994	64	1767	0.062	ppbv# 32
11) Ethanol	5.145	45	1987	0.078	ppbv# 1
12) Acetone	5.512	43	15508	0.095	ppbv# 80
13) Trichlorofluoromethane	5.587	101	6512	0.026	ppbv# 80
14) Isopropylalcohol	5.695	45	4451	0.026	ppbv# 1
15) Acrylonitrile	5.813	53	5269	0.082	ppbv# 54
16) 1,1-Dichloroethene	6.046	61	3369	0.024	ppbv# 56
17) Methylene Chloride	6.124	49	6698	0.059	ppbv# 62
20) Carbon Disulfide	6.357	76	6152	0.033	ppbv# 29
21) Trichlorotrifluoroethane	6.288	101	4959	0.028	ppbv# 75
22) Trans-1,2-Dichloroethene	6.752	61	1934	0.037	ppbv# 65
23) 1,1-Dichloroethane	6.886	63	3137	0.045	ppbv 88
24) Methyl tert-butyl ethe...	6.941	73	491	0.005	ppbv# 1
26) Methyl Ethyl Ketone	7.162	43	3851	0.040	ppbv# 70
27) Cis-1,2-Dichloroethene	7.413	61	2289	0.042	ppbv# 44
28) Hexane	7.528	57	1526	0.023	ppbv# 1
29) Chloroform	7.601	83	2140	0.028	ppbv# 57
30) Ethyl acetate	7.549	61	338	0.019	ppbv# 1
31) Tetrahydrofuran	7.882	42	2068	0.035	ppbv# 80
32) 1,2-Dichloroethane	8.059	62	1269	0.023	ppbv# 22
33) 1,1,1-Trichloroethane	8.226	97	2636	0.034	ppbv# 59
34) Benzene	8.490	78	2238	0.021	ppbv# 58
35) Carbon Tetrachloride	8.592	117	1556	0.022	ppbv# 35
36) Cyclohexane	8.660	84	2533	0.058	ppbv# 1
38) 1,2-dichloropropane	8.965	63	1730	0.032	ppbv# 45
39) Bromodichloromethane	9.090	83	1427	0.016	ppbv# 66
40) Trichloroethene	9.101	130	2060	0.032	ppbv# 74
42) 1,4-Dioxane	9.147	88	365	0.012	ppbv# 70
44) Heptane	9.237	43	1670	0.018	ppbv# 46
45) cis-1,3-Dichloropropene	9.504	75	403	0.006	ppbv 86
46) 4-Methyl-2-pentanone(M...	9.611	43	3723	0.027	ppbv# 90
47) trans-1,3-Dichloropropene	9.873	75	281	0.005	ppbv# 1
48) 1,1,2-Trichloroethane	9.989	97	951	0.019	ppbv# 88
49) Toluene	10.144	91	3609	0.025	ppbv# 92
50) Dibromochloromethane	10.397	129	2492	0.029	ppbv# 78

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_07.D
 Acq On : 2 Mar 2023 4:41 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:01:05 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:54:24 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.280	43	3105	0.026	ppbv#	52
52)	1,2-Dibromoethane(EDB)	10.552	107	1417	0.017	ppbv#	27
53)	Tetrachloroethene	10.766	166	1423	0.019	ppbv#	69
55)	1,1,1,2-Tetrachloroethane	11.141	131	804	0.014	ppbv#	83
56)	Chlorobenzene	11.162	112	2428	0.024	ppbv#	34
57)	Ethylbenzene	11.346	91	4053	0.025	ppbv	92
58)	m,p-Xylene	11.449	91	6695	0.055	ppbv#	76
59)	Bromoform	11.521	173	860	0.013	ppbv#	44
60)	Styrene	11.654	104	1904	0.020	ppbv#	72
61)	1,1,2,2-Tetrachloroethane	11.715	83	1667	0.015	ppbv#	47
62)	o-Xylene	11.705	91	1985	0.015	ppbv#	87
65)	Isopropylbenzene	12.023	105	5016	0.030	ppbv#	73
67)	4-Ethyltoluene	12.392	105	3810	0.020	ppbv#	79
68)	1,3,5-Trimethylbenzene	12.433	105	5528	0.041	ppbv#	69
69)	1,2,4-Trimethylbenzene	12.690	105	2809	0.017	ppbv	91
71)	Benzyl chloride	12.803	91	297	0.003	ppbv#	54
72)	1,3-Dichlorobenzene	12.823	146	4587	0.040	ppbv#	87
73)	1,4-Dichlorobenzene	12.823	146	4587	0.039	ppbv#	85
74)	sec-Butylbenzene	12.844	105	6143	0.027	ppbv	93
75)	4-Isopropyltoluene	12.926	119	4620	0.021	ppbv#	63
76)	1,2-Dichlorobenzene	13.069	146	2309	0.022	ppbv#	64
77)	n-Butylbenzene	13.203	91	5546	0.033	ppbv#	82
78)	1,2,4-Trichlorobenzene	14.270	180	1242	0.019	ppbv#	70
80)	Hexachlorobutadiene	14.567	225	2272	0.026	ppbv	85
82)	1,2-Dichlorotetrafluor...	4.391	85	7046	0.031	ppbv#	63
83)	Vinyl Chloride(sim)	4.515	62	1323	0.018	ppbv#	57
84)	Bromomethane(sim)	4.865	94	2009	0.024	ppbv#	6
85)	Trichlorofluoromethane...	5.603	101	5052	0.019	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.059	62	1269	0.021	ppbv#	22
87)	1,1,1-Trichloroethane(...	8.221	97	1539	0.019	ppbv#	60
88)	Benzene(sim)	8.490	78	2238	0.019	ppbv#	58
89)	Carbon Tetrachloride(sim)	8.586	117	1369	0.019	ppbv	97
90)	1,1-Dichloroethene(sim)	6.046	61	3369	0.024	ppbv#	41
91)	Trichlorotrifluoroetha...	6.302	101	3742	0.021	ppbv#	94
92)	Trans-1,2-Dichloroethe...	6.752	61	1934	0.033	ppbv#	65
93)	1,1-Dichloroethane(sim)	6.884	63	1387	0.019	ppbv#	74
94)	Cis-1,2-Dichloroethene...	7.419	61	1018m	0.017	ppbv	44
95)	Chloroform(sim)	7.596	83	1576	0.019	ppbv#	72
97)	1,2-dichloropropane(sim)	8.982	63	1380	0.025	ppbv#	81
98)	Bromodichloromethane(sim)	9.090	83	1427	0.020	ppbv#	69
99)	Trichloroethene(sim)	9.107	130	1420	0.020	ppbv	89
100)	1,4-Dioxane(sim)	9.147	88	365	0.013	ppbv#	67
101)	cis-1,3-Dichloropropen...	9.587	75	1054	0.017	ppbv#	69
102)	1,1,2-Trichloroethane(...	9.989	97	951	0.020	ppbv	93
103)	Dibromochloromethane(sim)	10.402	129	1509	0.019	ppbv	94
104)	1,2-Dibromoethane(EDB)...	10.542	107	892	0.011	ppbv#	1
105)	Tetrachloroethene(sim)	10.781	166	2132	0.022	ppbv	94
107)	Bromoform(sim)	11.526	173	1346	0.020	ppbv	93
108)	m,p-Xylene(sim)	11.449	91	6695	0.048	ppbv#	74
109)	1,1,2,2-Tetrachloroeth...	11.711	83	2373	0.020	ppbv#	97
112)	Benzyl chloride(sim)	12.792	91	557	0.009	ppbv#	57
113)	1,3-Dichlorobenzene(sim)	12.808	146	2811	0.022	ppbv	87
114)	1,4-Dichlorobenzene(sim)	12.849	146	2423m	0.022	ppbv	78
115)	sec-Butylbenzene(sim)	12.849	105	4585	0.019	ppbv	92
116)	4-Isopropyltoluene(sim)	12.926	119	4620	0.020	ppbv#	63

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_07.D
Acq On : 2 Mar 2023 4:41 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02 ppbV ; AirT01501y
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:01:05 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:54:24 2023
Response via : Initial Calibration

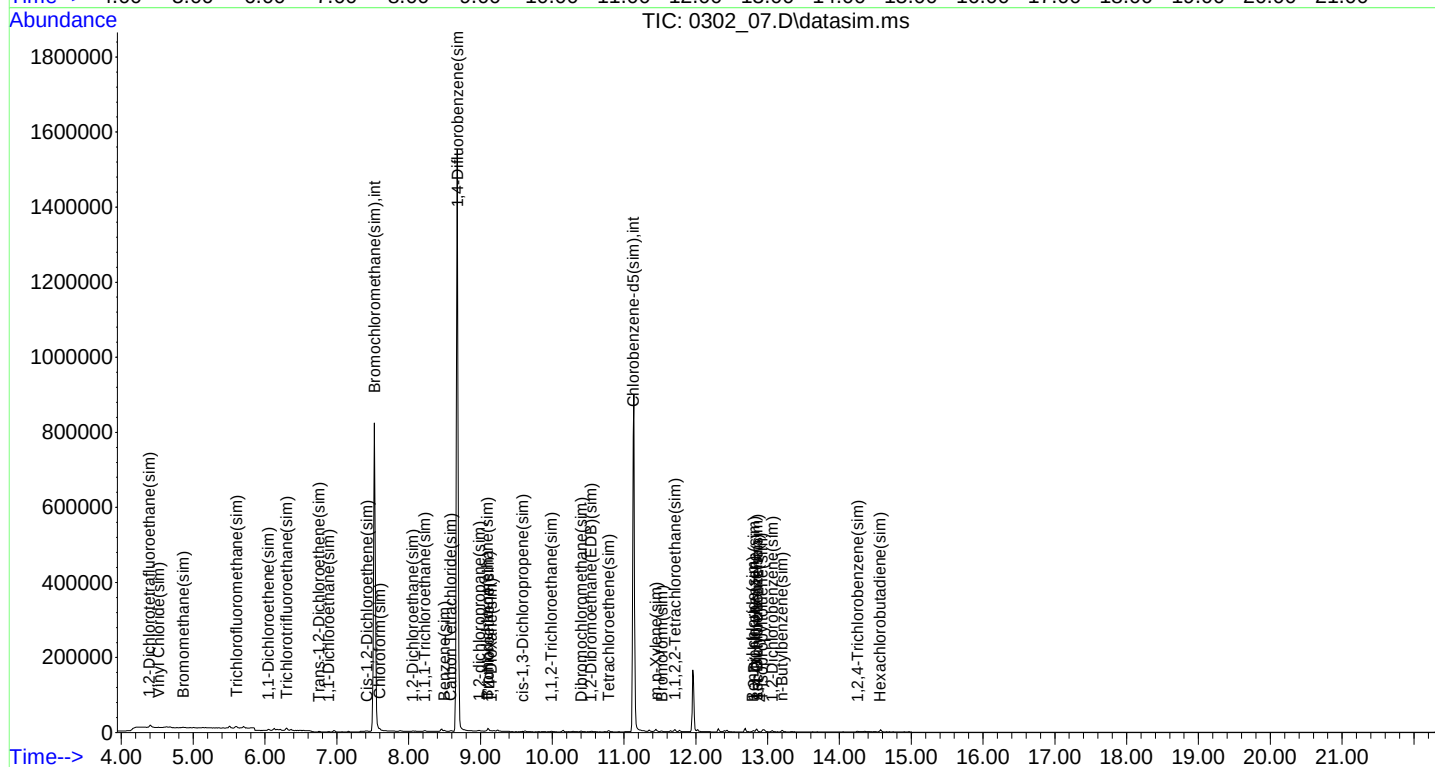
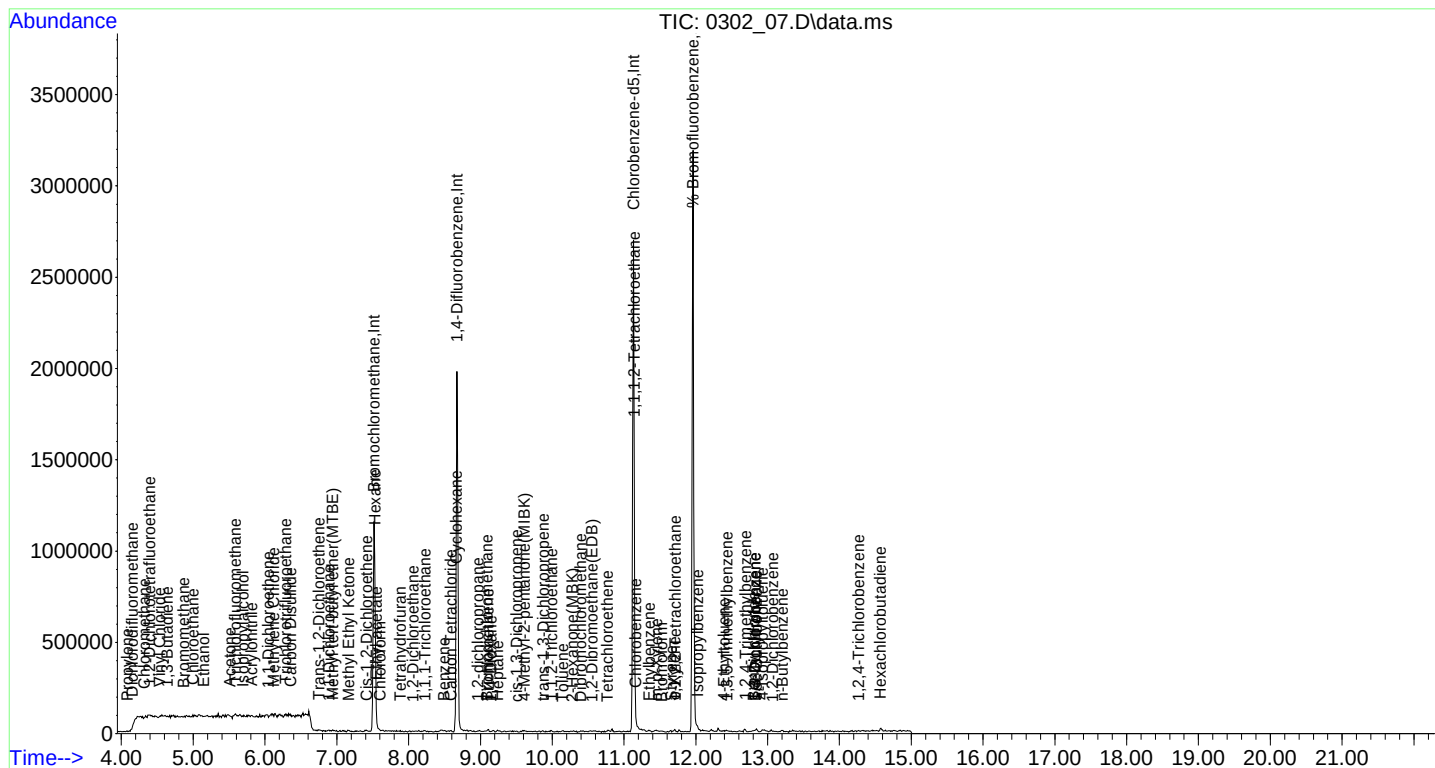
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.065	146	2684	0.021	ppbv	93
118]	n-Butylbenzene(sim)	13.203	91	5546	0.031	ppbv#	77
119]	1,2,4-Trichlorobenzene...	14.255	180	1901	0.027	ppbv	85
120]	Hexachlorobutadiene(sim)	14.567	225	2002	0.023	ppbv	87

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_07.D
 Acq On : 2 Mar 2023 4:41 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ppbV ; AirT01501y
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 13:01:05 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 10:54:24 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_08.D
 Acq On : 2 Mar 2023 5:13 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV ; AirT01501Y
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 12:00:02 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:58:15 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	366224	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1448852	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	622783	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	435201	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1448852	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	622783	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 778637 11.670 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 116.70%

Target Compounds					Qvalue
2) Propylene	4.099	41	841	0.026	ppbv# 1
3) Dichlorodifluoromethane	4.153	85	7328	0.057	ppbv# 88
4) Chloromethane	4.293	50	4395	0.068	ppbv# 44
5) 1,2-Dichlorotetrafluor...	4.391	85	10058	0.050	ppbv# 77
6) Vinyl Chloride	4.520	62	4799	0.067	ppbv 78
7) 1,3-Butadiene	4.638	54	4161	0.069	ppbv# 49
8) Bromomethane	4.865	94	4168	0.057	ppbv# 42
9) Chloroethane	4.983	64	2385	0.083	ppbv# 59
11) Ethanol	5.123	45	2681	0.105	ppbv# 1
12) Acetone	5.501	43	16090	0.098	ppbv# 71
13) Trichlorofluoromethane	5.598	101	10513	0.041	ppbv# 86
14) Isopropylalcohol	5.695	45	10621	0.061	ppbv# 47
15) Acrylonitrile	5.824	53	6630	0.102	ppbv 95
16) 1,1-Dichloroethene	6.037	61	6655	0.047	ppbv# 76
17) Methylene Chloride	6.124	49	9932	0.086	ppbv# 89
20) Carbon Disulfide	6.348	76	9599	0.051	ppbv 96
21) Trichlorotrifluoroethane	6.296	101	9408	0.053	ppbv# 72
22) Trans-1,2-Dichloroethene	6.744	61	3654	0.069	ppbv# 79
23) 1,1-Dichloroethane	6.878	63	3246	0.046	ppbv# 70
24) Methyl tert-butyl ethe...	6.941	73	3751	0.041	ppbv# 52
26) Methyl Ethyl Ketone	7.154	43	4677	0.048	ppbv# 89
27) Cis-1,2-Dichloroethene	7.413	61	1989	0.036	ppbv 94
28) Hexane	7.528	57	3121	0.047	ppbv# 84
29) Chloroform	7.590	83	4206	0.055	ppbv# 76
30) Ethyl acetate	7.538	61	776	0.044	ppbv# 53
31) Tetrahydrofuran	7.882	42	4188	0.071	ppbv# 57
32) 1,2-Dichloroethane	8.059	62	1864	0.034	ppbv# 52
33) 1,1,1-Trichloroethane	8.215	97	1871	0.024	ppbv# 82
34) Benzene	8.490	78	5967	0.054	ppbv# 74
35) Carbon Tetrachloride	8.592	117	1838	0.026	ppbv# 74
36) Cyclohexane	8.660	84	3587	0.081	ppbv# 1
38) 1,2-dichloropropane	8.977	63	1522	0.028	ppbv# 1
39) Bromodichloromethane	9.078	83	2278	0.025	ppbv# 24
40) Trichloroethene	9.101	130	2567	0.039	ppbv 84
42) 1,4-Dioxane	9.135	88	2041	0.067	ppbv# 44
44) Heptane	9.237	43	4583	0.050	ppbv# 67
45) cis-1,3-Dichloropropene	9.581	75	2315	0.035	ppbv 91
46) 4-Methyl-2-pentanone(M...	9.620	43	5355	0.038	ppbv# 75
47) trans-1,3-Dichloropropene	9.892	75	1920	0.033	ppbv# 66
48) 1,1,2-Trichloroethane	9.999	97	2015	0.040	ppbv# 68
49) Toluene	10.154	91	5904	0.041	ppbv 96
50) Dibromochloromethane	10.387	129	2991	0.034	ppbv# 92

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_08.D
 Acq On : 2 Mar 2023 5:13 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV ; AirT01501Y
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 12:00:02 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:58:15 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.290	43	6330	0.052	ppbv#	69
52)	1,2-Dibromoethane(EDB)	10.552	107	3300	0.039	ppbv#	69
53)	Tetrachloroethene	10.775	166	1189	0.016	ppbv#	1
55)	1,1,1,2-Tetrachloroethane	11.141	131	836	0.015	ppbv#	8
56)	Chlorobenzene	11.141	112	5412	0.054	ppbv#	1
57)	Ethylbenzene	11.356	91	6744	0.042	ppbv	91
58)	m,p-Xylene	11.438	91	9870	0.081	ppbv#	83
59)	Bromoform	11.531	173	2150	0.032	ppbv#	76
60)	Styrene	11.643	104	3940	0.042	ppbv#	83
61)	1,1,2,2-Tetrachloroethane	11.705	83	3839	0.035	ppbv#	88
62)	o-Xylene	11.705	91	5803	0.043	ppbv#	83
65)	Isopropylbenzene	12.012	105	7745	0.046	ppbv#	89
67)	4-Ethyltoluene	12.392	105	4776	0.025	ppbv#	50
68)	1,3,5-Trimethylbenzene	12.443	105	5493	0.040	ppbv#	94
69)	1,2,4-Trimethylbenzene	12.689	105	4597	0.028	ppbv#	63
71)	Benzyl chloride	12.782	91	2556	0.029	ppbv#	57
72)	1,3-Dichlorobenzene	12.802	146	3748	0.033	ppbv#	20
73)	1,4-Dichlorobenzene	12.843	146	3667	0.031	ppbv#	46
74)	sec-Butylbenzene	12.843	105	7899	0.034	ppbv#	74
75)	4-Isopropyltoluene	12.936	119	9875	0.045	ppbv#	86
76)	1,2-Dichlorobenzene	13.059	146	3603	0.034	ppbv#	70
77)	n-Butylbenzene	13.203	91	5715	0.034	ppbv#	94
78)	1,2,4-Trichlorobenzene	14.229	180	142	0.002	ppbv#	13
80)	Hexachlorobutadiene	14.578	225	5503	0.062	ppbv	84
82)	1,2-Dichlorotetrafluor...	4.396	85	7153m	0.032	ppbv	81
83)	Vinyl Chloride(sim)	4.515	62	2647	0.036	ppbv#	83
84)	Bromomethane(sim)	4.870	94	3031m	0.037	ppbv	62
85)	Trichlorofluoromethane...	5.592	101	8858	0.035	ppbv#	86
86)	1,2-Dichloroethane(sim)	8.064	62	1926m	0.032	ppbv	52
87)	1,1,1-Trichloroethane(...	8.221	97	2531	0.032	ppbv#	94
88)	Benzene(sim)	8.495	78	3637m	0.031	ppbv	74
89)	Carbon Tetrachloride(sim)	8.597	117	2282	0.032	ppbv	95
90)	1,1-Dichloroethene(sim)	6.052	61	4871m	0.035	ppbv	79
91)	Trichlorotrifluoroetha...	6.302	101	6278	0.036	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.749	61	1804m	0.031	ppbv	79
93)	1,1-Dichloroethane(sim)	6.883	63	2347	0.033	ppbv#	91
94)	Cis-1,2-Dichloroethene...	7.408	61	1936m	0.032	ppbv	89
95)	Chloroform(sim)	7.596	83	2628	0.032	ppbv#	79
97)	1,2-dichloropropane(sim)	8.982	63	1803	0.032	ppbv#	87
98)	Bromodichloromethane(sim)	9.095	83	2351m	0.032	ppbv	27
99)	Trichloroethene(sim)	9.107	130	2247	0.032	ppbv	95
100)	1,4-Dioxane(sim)	9.141	88	965m	0.033	ppbv	67
101)	cis-1,3-Dichloropropen...	9.587	75	1849	0.030	ppbv#	82
102)	1,1,2-Trichloroethane(...	9.985	97	1508m	0.032	ppbv	1
103)	Dibromochloromethane(sim)	10.402	129	2419	0.030	ppbv	86
104)	1,2-Dibromoethane(EDB)...	10.548	107	2798m	0.035	ppbv	56
105)	Tetrachloroethene(sim)	10.781	166	3139	0.033	ppbv	98
107)	Bromoform(sim)	11.526	173	2083m	0.030	ppbv	99
108)	m,p-Xylene(sim)	11.438	91	9870	0.071	ppbv#	85
109)	1,1,2,2-Tetrachloroeth...	11.700	83	3454	0.029	ppbv#	89
112)	Benzyl chloride(sim)	12.787	91	1996m	0.032	ppbv	57
113)	1,3-Dichlorobenzene(sim)	12.798	146	3848	0.030	ppbv	95
114)	1,4-Dichlorobenzene(sim)	12.839	146	4153m	0.037	ppbv	46
115)	sec-Butylbenzene(sim)	12.849	105	7877	0.032	ppbv	97
116)	4-Isopropyltoluene(sim)	12.936	119	9625	0.043	ppbv#	87

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_08.D
Acq On : 2 Mar 2023 5:13 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035 ppbV ; AirT01501Y
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 12:00:02 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:58:15 2023
Response via : Initial Calibration

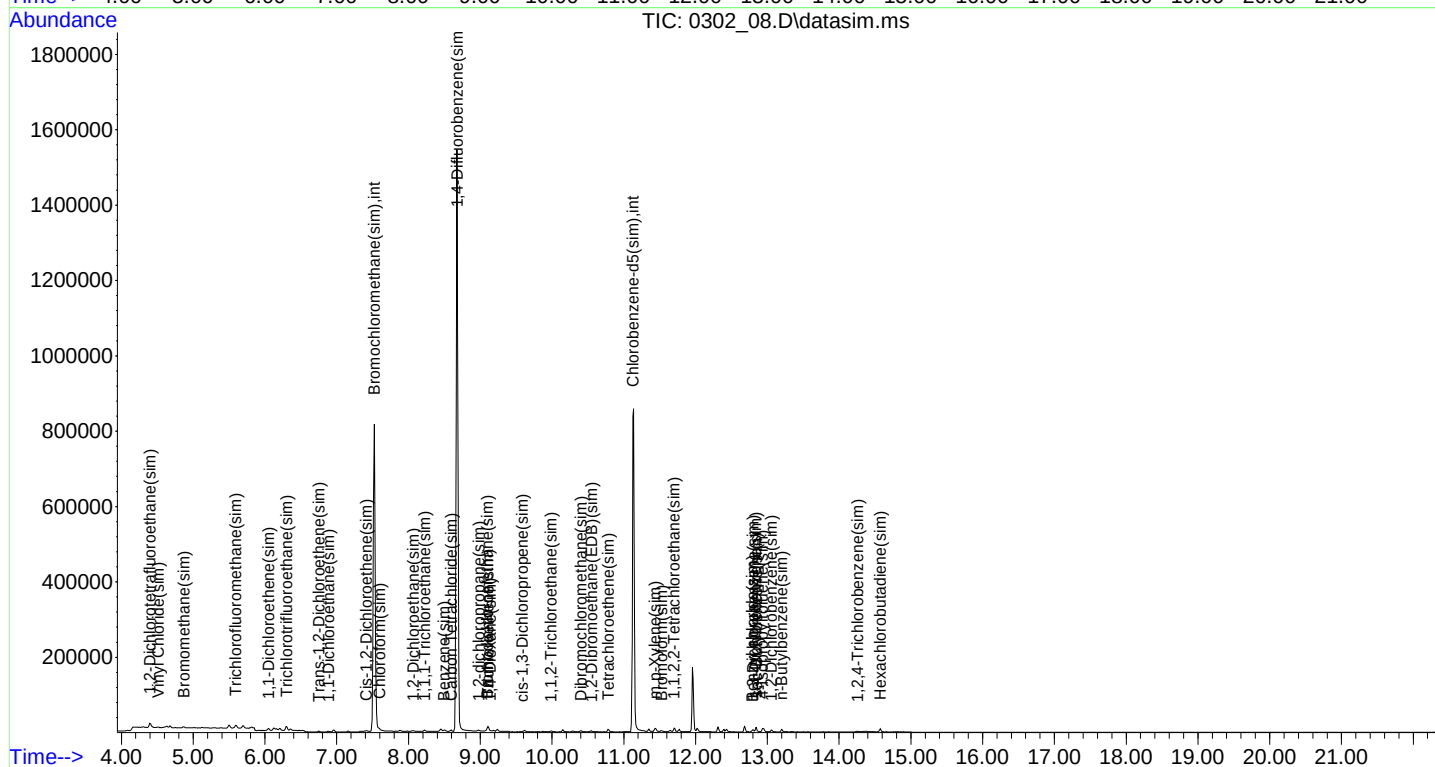
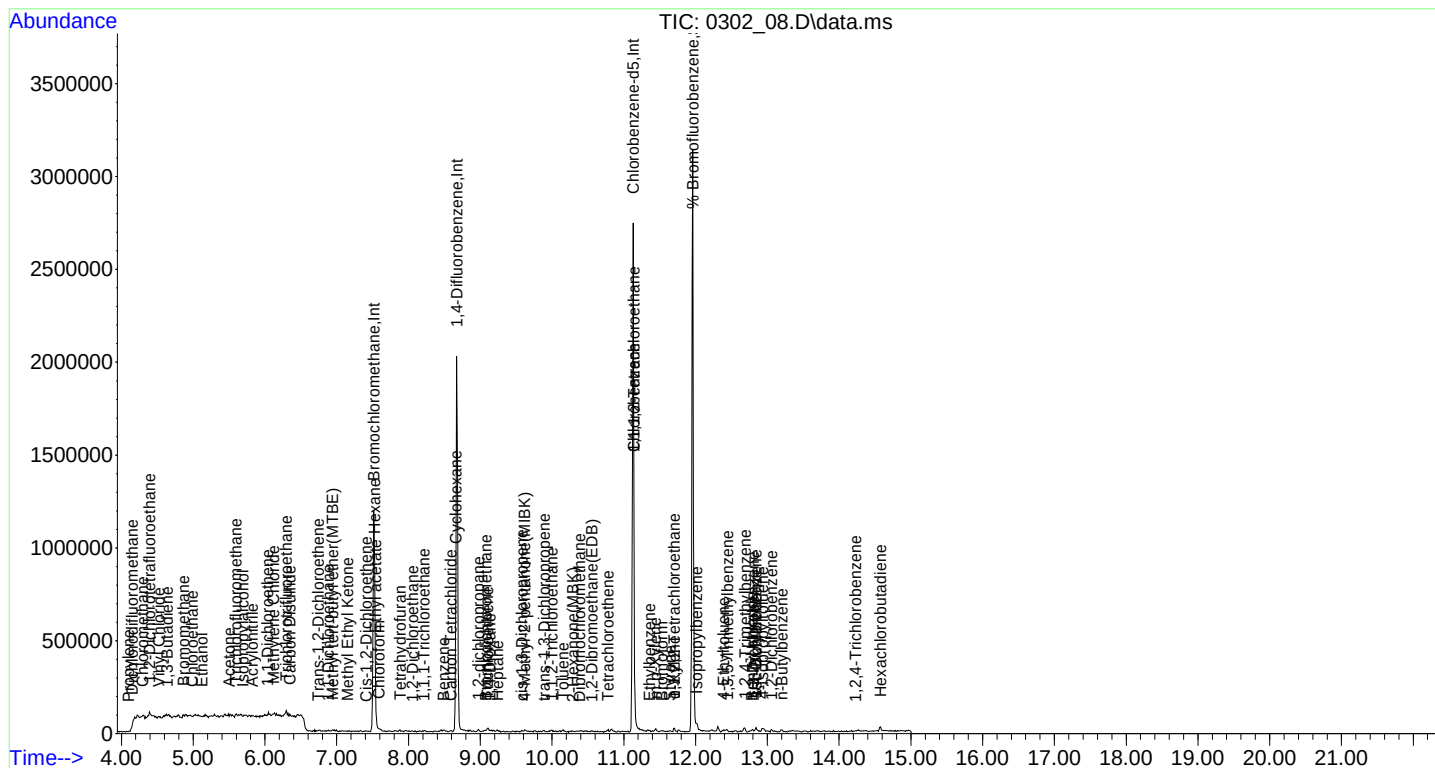
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	3710	0.029	ppbv	88
118]	n-Butylbenzene(sim)	13.203	91	5715	0.032	ppbv	87
119]	1,2,4-Trichlorobenzene...	14.255	180	1967	0.028	ppbv#	75
120]	Hexachlorobutadiene(sim)	14.578	225	4909	0.056	ppbv#	56

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_08.D
 Acq On : 2 Mar 2023 5:13 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ppbV ; AirT01501Y
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 12:00:02 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 10:58:15 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_09.D
 Acq On : 2 Mar 2023 5:47 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:01:41 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 11:00:31 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	357004	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1373038	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	619740	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	424579	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1373038	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	625201	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	770661	11.607	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	116.10%

Target Compounds						Qvalue
2) Propylene	4.078	41	2807	0.088	ppbv#	25
3) Dichlorodifluoromethane	4.153	85	8369	0.067	ppbv#	74
4) Chloromethane	4.304	50	6893	0.110	ppbv	91
5) 1,2-Dichlorotetrafluor...	4.401	85	14148	0.072	ppbv#	81
6) Vinyl Chloride	4.520	62	4597	0.066	ppbv#	40
7) 1,3-Butadiene	4.638	54	4602	0.078	ppbv#	73
8) Bromomethane	4.865	94	5881	0.083	ppbv#	79
9) Chloroethane	5.016	64	1984	0.071	ppbv#	34
11) Ethanol	5.124	45	5496	0.221	ppbv#	5
12) Acetone	5.501	43	16659	0.104	ppbv#	88
13) Trichlorofluoromethane	5.598	101	12654	0.050	ppbv#	68
14) Isopropylalcohol	5.695	45	11993	0.070	ppbv#	54
15) Acrylonitrile	5.803	53	5953	0.094	ppbv#	39
16) 1,1-Dichloroethene	6.046	61	10537	0.077	ppbv#	86
17) Methylene Chloride	6.115	49	8480	0.075	ppbv#	67
20) Carbon Disulfide	6.356	76	13328	0.073	ppbv	98
21) Trichlorotrifluoroethane	6.305	101	8946	0.052	ppbv#	82
22) Trans-1,2-Dichloroethene	6.744	61	3413	0.066	ppbv#	83
23) 1,1-Dichloroethane	6.878	63	3280	0.048	ppbv	88
24) Methyl tert-butyl ethe...	6.949	73	7249	0.081	ppbv#	70
26) Methyl Ethyl Ketone	7.146	43	5746	0.060	ppbv#	86
27) Cis-1,2-Dichloroethene	7.413	61	3502	0.066	ppbv#	74
28) Hexane	7.528	57	4624	0.072	ppbv#	92
29) Chloroform	7.590	83	3914	0.053	ppbv#	79
30) Ethyl acetate	7.549	61	2124	0.124	ppbv#	81
31) Tetrahydrofuran	7.871	42	4531	0.079	ppbv#	53
32) 1,2-Dichloroethane	8.069	62	3356	0.063	ppbv#	30
33) 1,1,1-Trichloroethane	8.226	97	4770	0.063	ppbv	97
34) Benzene	8.490	78	6287	0.059	ppbv#	61
35) Carbon Tetrachloride	8.603	117	3731	0.053	ppbv#	80
36) Cyclohexane	8.660	84	3557	0.083	ppbv#	1
38) 1,2-dichloropropane	8.977	63	3599	0.070	ppbv	94
39) Bromodichloromethane	9.079	83	2549	0.030	ppbv#	11
40) Trichloroethene	9.112	130	2080	0.033	ppbv#	53
42) 1,4-Dioxane	9.146	88	1381	0.048	ppbv#	37
44) Heptane	9.226	43	6273	0.072	ppbv#	79
45) cis-1,3-Dichloropropene	9.581	75	3844	0.061	ppbv#	62
46) 4-Methyl-2-pentanone(M...	9.620	43	8744	0.065	ppbv#	87
47) trans-1,3-Dichloropropene	9.873	75	2994	0.054	ppbv#	74
48) 1,1,2-Trichloroethane	9.989	97	1913	0.040	ppbv#	49
49) Toluene	10.135	91	6710	0.049	ppbv#	71
50) Dibromochloromethane	10.397	129	4130	0.050	ppbv#	83

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_09.D
 Acq On : 2 Mar 2023 5:47 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:01:41 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 11:00:31 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.280	43	6276	0.054	ppbv#	78
52)	1,2-Dibromoethane(EDB)	10.542	107	4301	0.053	ppbv	97
53)	Tetrachloroethene	10.775	166	3979	0.057	ppbv#	72
55)	1,1,1,2-Tetrachloroethane	11.141	131	2610	0.047	ppbv	95
56)	Chlorobenzene	11.162	112	5966	0.060	ppbv#	1
57)	Ethylbenzene	11.346	91	7386	0.046	ppbv	75
58)	m,p-Xylene	11.439	91	14662	0.121	ppbv#	82
59)	Bromoform	11.521	173	2267	0.034	ppbv#	77
60)	Styrene	11.644	104	4088	0.044	ppbv#	63
61)	1,1,2,2-Tetrachloroethane	11.705	83	4921	0.046	ppbv#	85
62)	o-Xylene	11.705	91	8349	0.063	ppbv#	75
65)	Isopropylbenzene	12.023	105	7258	0.044	ppbv#	73
67)	4-Ethyltoluene	12.392	105	7982	0.043	ppbv#	53
68)	1,3,5-Trimethylbenzene	12.433	105	6677	0.049	ppbv#	1
69)	1,2,4-Trimethylbenzene	12.679	105	6411	0.039	ppbv#	56
71)	Benzyl chloride	12.792	91	2785	0.031	ppbv#	83
72)	1,3-Dichlorobenzene	12.792	146	5742	0.050	ppbv	91
73)	1,4-Dichlorobenzene	12.833	146	4178	0.036	ppbv#	82
74)	sec-Butylbenzene	12.843	105	8814	0.038	ppbv#	88
75)	4-Isopropyltoluene	12.926	119	9109	0.042	ppbv#	65
76)	1,2-Dichlorobenzene	13.059	146	5467	0.052	ppbv#	79
77)	n-Butylbenzene	13.192	91	7932	0.047	ppbv#	79
78)	1,2,4-Trichlorobenzene	14.239	180	461	0.007	ppbv#	1
80)	Hexachlorobutadiene	14.567	225	5722	0.065	ppbv	82
82)	1,2-Dichlorotetrafluor...	4.396	85	11055m	0.050	ppbv	71
83)	Vinyl Chloride(sim)	4.515	62	3566	0.049	ppbv	98
84)	Bromomethane(sim)	4.870	94	3953m	0.050	ppbv	83
85)	Trichlorofluoromethane...	5.593	101	12613	0.050	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.065	62	2464m	0.043	ppbv	30
87)	1,1,1-Trichloroethane(...	8.221	97	3402	0.044	ppbv#	90
88)	Benzene(sim)	8.490	78	6287	0.055	ppbv#	61
89)	Carbon Tetrachloride(sim)	8.597	117	3094	0.045	ppbv#	95
90)	1,1-Dichloroethene(sim)	6.052	61	7086m	0.052	ppbv	88
91)	Trichlorotrifluoroetha...	6.293	101	9308	0.054	ppbv#	95
92)	Trans-1,2-Dichloroethe...	6.750	61	2518m	0.045	ppbv	83
93)	1,1-Dichloroethane(sim)	6.883	63	3229	0.047	ppbv#	89
94)	Cis-1,2-Dichloroethene...	7.408	61	2558m	0.044	ppbv	72
95)	Chloroform(sim)	7.596	83	3833	0.048	ppbv#	87
97)	1,2-dichloropropane(sim)	8.982	63	2582m	0.049	ppbv	93
98)	Bromodichloromethane(sim)	9.079	83	2499	0.036	ppbv#	8
99)	Trichloroethene(sim)	9.107	130	3166	0.048	ppbv	94
100)	1,4-Dioxane(sim)	9.146	88	1381	0.050	ppbv#	38
101)	cis-1,3-Dichloropropen...	9.587	75	2764	0.047	ppbv	92
102)	1,1,2-Trichloroethane(...	9.985	97	1948m	0.043	ppbv	57
103)	Dibromochloromethane(sim)	10.402	129	3246	0.043	ppbv	91
104)	1,2-Dibromoethane(EDB)...	10.542	107	4301	0.057	ppbv	91
105)	Tetrachloroethene(sim)	10.781	166	4180	0.046	ppbv	98
107)	Bromoform(sim)	11.526	173	2450	0.035	ppbv	81
108)	m,p-Xylene(sim)	11.439	91	15061	0.107	ppbv	94
109)	1,1,2,2-Tetrachloroeth...	11.700	83	5286	0.044	ppbv	96
112)	Benzyl chloride(sim)	12.792	91	2785	0.044	ppbv	83
113)	1,3-Dichlorobenzene(sim)	12.798	146	5552	0.043	ppbv	92
114)	1,4-Dichlorobenzene(sim)	12.839	146	5117m	0.046	ppbv	75
115)	sec-Butylbenzene(sim)	12.849	105	10895	0.045	ppbv	96
116)	4-Isopropyltoluene(sim)	12.926	119	9129	0.040	ppbv#	65

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_09.D
Acq On : 2 Mar 2023 5:47 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05 ppbV ; AirT01501Y
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:01:41 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 11:00:31 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	5758	0.044	ppbv	97
118]	n-Butylbenzene(sim)	13.192	91	7932	0.044	ppbv	79
119]	1,2,4-Trichlorobenzene...	14.255	180	2801	0.039	ppbv	88
120]	Hexachlorobutadiene(sim)	14.567	225	5722	0.064	ppbv#	42

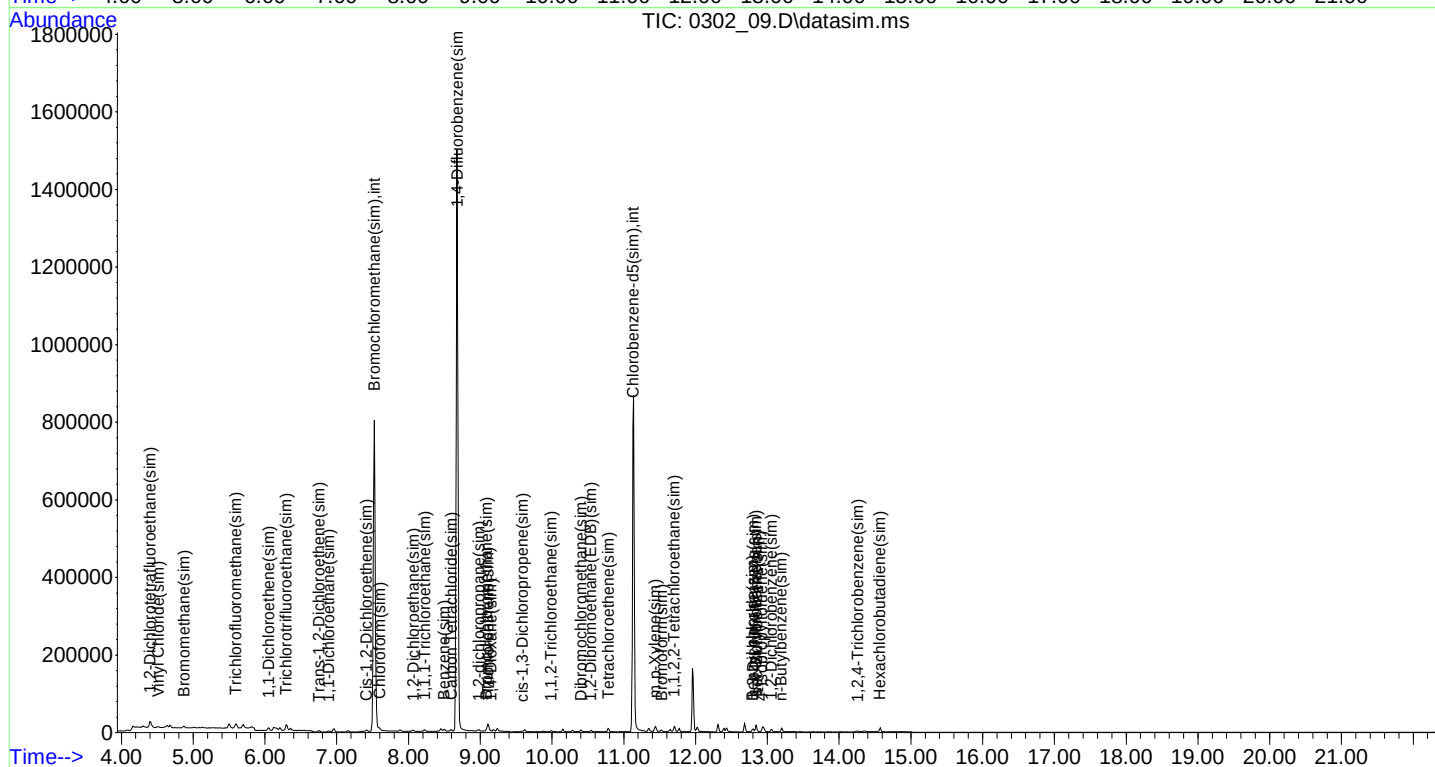
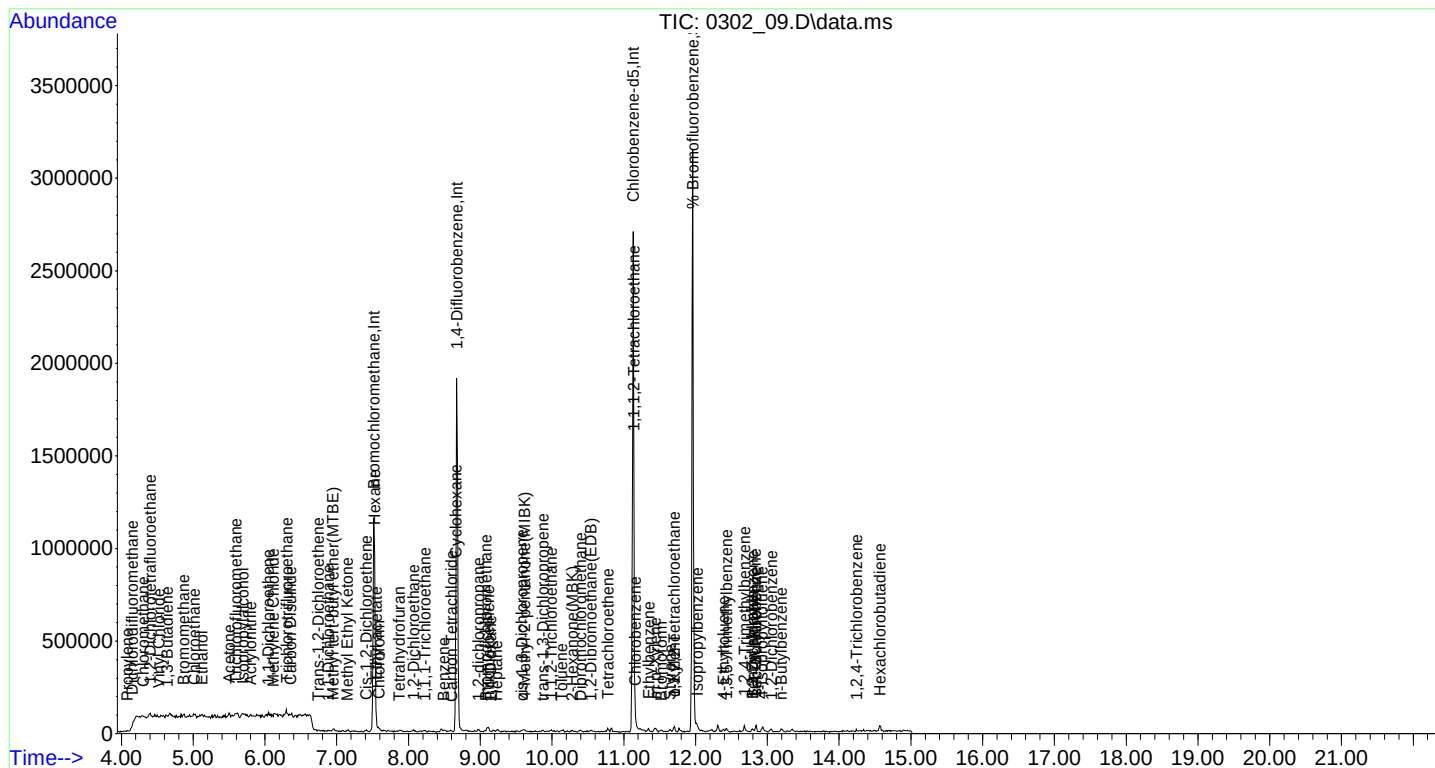
(#)out of range (m>manual integration reviewed by analyst (+)signals summed

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Data Path   : H:\AIR2023\CHEM20\03MAR\02\
Data File   : 0302_09.D
Acq On      : 2 Mar 2023    5:47 pm
Operator    :
Client ID    : ICAL 0.05
Lab ID      : 0.05 ppbV ; AirT01501Y
ALS Vial    : 6    Sample Multiplier: 1

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Quant Time: Mar 03 12:01:41 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 11:00:31 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_10.D
 Acq On : 2 Mar 2023 6:18 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 12:02:08 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 11:01:54 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	348948	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1363259	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	595762	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	420171	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1362314	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	594914	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	737304	11.552	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	115.50%

Target Compounds						Qvalue
2) Propylene	4.078	41	9825	0.315	ppbv#	50
3) Dichlorodifluoromethane	4.154	85	20075	0.164	ppbv#	81
4) Chloromethane	4.294	50	8321	0.135	ppbv	78
5) 1,2-Dichlorotetrafluor...	4.401	85	26136	0.136	ppbv#	81
6) Vinyl Chloride	4.509	62	9308	0.136	ppbv#	56
7) 1,3-Butadiene	4.628	54	8132	0.142	ppbv#	87
8) Bromomethane	4.865	94	8678	0.125	ppbv#	74
9) Chloroethane	5.091	64	1933	0.071	ppbv	73
11) Ethanol	5.124	45	5625	0.231	ppbv#	1
12) Acetone	5.501	43	7336	0.047	ppbv#	79
13) Trichlorofluoromethane	5.587	101	9635	0.039	ppbv#	87
14) Isopropylalcohol	5.684	45	10289	0.062	ppbv#	77
15) Acrylonitrile	5.813	53	5348	0.087	ppbv#	81
16) 1,1-Dichloroethene	6.055	61	7959	0.059	ppbv#	94
17) Methylene Chloride	6.124	49	7387	0.067	ppbv#	78
20) Carbon Disulfide	6.348	76	10002	0.056	ppbv#	91
21) Trichlorotrifluoroethane	6.296	101	8980	0.053	ppbv	93
22) Trans-1,2-Dichloroethene	6.760	61	5396	0.107	ppbv#	82
23) 1,1-Dichloroethane	6.894	63	7113	0.106	ppbv	81
24) Methyl tert-butyl ethe...	6.949	73	9145	0.104	ppbv#	59
26) Methyl Ethyl Ketone	7.154	43	11289	0.121	ppbv#	91
27) Cis-1,2-Dichloroethene	7.413	61	7243	0.139	ppbv#	75
28) Hexane	7.528	57	7249	0.115	ppbv#	72
29) Chloroform	7.590	83	8752	0.120	ppbv	83
30) Ethyl acetate	7.549	61	1557	0.093	ppbv#	36
31) Tetrahydrofuran	7.882	42	7735	0.138	ppbv#	87
32) 1,2-Dichloroethane	8.059	62	7369	0.141	ppbv#	78
33) 1,1,1-Trichloroethane	8.215	97	8015	0.108	ppbv	93
34) Benzene	8.501	78	10933	0.105	ppbv#	83
35) Carbon Tetrachloride	8.581	117	6513	0.095	ppbv	92
36) Cyclohexane	8.660	84	6235	0.148	ppbv#	49
38) 1,2-dichloropropane	8.977	63	5765	0.114	ppbv#	49
39) Bromodichloromethane	9.090	83	8475	0.101	ppbv	79
40) Trichloroethene	9.101	130	6177	0.100	ppbv#	79
42) 1,4-Dioxane	9.135	88	2592	0.091	ppbv#	80
44) Heptane	9.237	43	8474	0.097	ppbv#	92
45) cis-1,3-Dichloropropene	9.649	75	1067	0.017	ppbv	87
46) 4-Methyl-2-pentanone(M...	9.611	43	12169	0.092	ppbv#	94
47) trans-1,3-Dichloropropene	9.873	75	5758	0.104	ppbv#	90
48) 1,1,2-Trichloroethane	9.979	97	6037	0.126	ppbv#	77
49) Toluene	10.154	91	14898	0.109	ppbv#	84
50) Dibromochloromethane	10.397	129	7727	0.093	ppbv#	83

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_10.D
 Acq On : 2 Mar 2023 6:18 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 12:02:08 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 11:01:54 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.290	43	3007	0.026	ppbv#	61
52)	1,2-Dibromoethane(EDB)	10.552	107	8593	0.108	ppbv	91
53)	Tetrachloroethene	10.785	166	8624	0.124	ppbv	86
55)	1,1,1,2-Tetrachloroethane	11.141	131	5612	0.105	ppbv#	84
56)	Chlorobenzene	11.152	112	12913	0.134	ppbv#	11
57)	Ethylbenzene	11.346	91	16353	0.107	ppbv	77
58)	m,p-Xylene	11.428	91	27522	0.237	ppbv#	95
59)	Bromoform	11.521	173	5562	0.088	ppbv#	88
60)	Styrene	11.644	104	12491	0.139	ppbv	94
61)	1,1,2,2-Tetrachloroethane	11.695	83	10532	0.102	ppbv	90
62)	o-Xylene	11.705	91	15864	0.124	ppbv#	80
65)	Isopropylbenzene	12.023	105	16934	0.106	ppbv	96
67)	4-Ethyltoluene	12.392	105	17930	0.100	ppbv#	73
68)	1,3,5-Trimethylbenzene	12.433	105	17386	0.134	ppbv#	93
69)	1,2,4-Trimethylbenzene	12.679	105	16412	0.105	ppbv#	87
71)	Benzyl chloride	12.782	91	6154	0.072	ppbv#	81
72)	1,3-Dichlorobenzene	12.792	146	9940	0.091	ppbv#	77
73)	1,4-Dichlorobenzene	12.844	146	9164	0.082	ppbv#	25
74)	sec-Butylbenzene	12.844	105	21899	0.099	ppbv#	93
75)	4-Isopropyltoluene	12.926	119	20255	0.096	ppbv#	84
76)	1,2-Dichlorobenzene	13.059	146	10610	0.105	ppbv#	81
77)	n-Butylbenzene	13.192	91	15860	0.097	ppbv#	82
78)	1,2,4-Trichlorobenzene	14.239	180	3938	0.062	ppbv#	88
80)	Hexachlorobutadiene	14.567	225	8321	0.098	ppbv	84
82)	1,2-Dichlorotetrafluor...	4.401	85	26136	0.120	ppbv#	80
83)	Vinyl Chloride(sim)	4.504	62	7370	0.103	ppbv	98
84)	Bromomethane(sim)	4.865	94	8678	0.111	ppbv#	74
85)	Trichlorofluoromethane...	5.593	101	10050	0.041	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.059	62	7369	0.129	ppbv#	78
87)	1,1,1-Trichloroethane(...	8.221	97	7837	0.103	ppbv#	92
88)	Benzene(sim)	8.501	78	10933	0.097	ppbv#	83
89)	Carbon Tetrachloride(sim)	8.586	117	6871	0.100	ppbv	99
90)	1,1-Dichloroethene(sim)	6.055	61	7959	0.059	ppbv#	86
91)	Trichlorotrifluoroetha...	6.302	101	8788	0.052	ppbv#	95
92)	Trans-1,2-Dichloroethe...	6.760	61	5396	0.097	ppbv#	82
93)	1,1-Dichloroethane(sim)	6.884	63	7077	0.104	ppbv	95
94)	Cis-1,2-Dichloroethene...	7.413	61	7243	0.126	ppbv#	75
95)	Chloroform(sim)	7.596	83	8389	0.106	ppbv#	95
97)	1,2-dichloropropane(sim)	8.971	63	5304	0.101	ppbv#	84
98)	Bromodichloromethane(sim)	9.090	83	8365	0.121	ppbv	80
99)	Trichloroethene(sim)	9.107	130	6729	0.102	ppbv	98
100)	1,4-Dioxane(sim)	9.135	88	2592	0.095	ppbv#	77
101)	cis-1,3-Dichloropropen...	9.587	75	5853	0.100	ppbv	99
102)	1,1,2-Trichloroethane(...	9.979	97	5183	0.115	ppbv#	79
103)	Dibromochloromethane(sim)	10.402	129	7811	0.104	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.552	107	8142	0.110	ppbv	86
105)	Tetrachloroethene(sim)	10.781	166	8825	0.098	ppbv	97
107)	Bromoform(sim)	11.526	173	6352	0.097	ppbv	99
108)	m,p-Xylene(sim)	11.428	91	27522	0.206	ppbv#	94
109)	1,1,2,2-Tetrachloroeth...	11.700	83	11779	0.104	ppbv	95
112)	Benzyl chloride(sim)	12.782	91	6731	0.112	ppbv	80
113)	1,3-Dichlorobenzene(sim)	12.798	146	11368	0.092	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.844	146	9164	0.086	ppbv#	63
115)	sec-Butylbenzene(sim)	12.839	105	23901	0.103	ppbv	99
116)	4-Isopropyltoluene(sim)	12.926	119	20419	0.094	ppbv#	84

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_10.D
Acq On : 2 Mar 2023 6:18 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10 ppbV ; AirT01501Y
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 12:02:08 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 11:01:54 2023
Response via : Initial Calibration

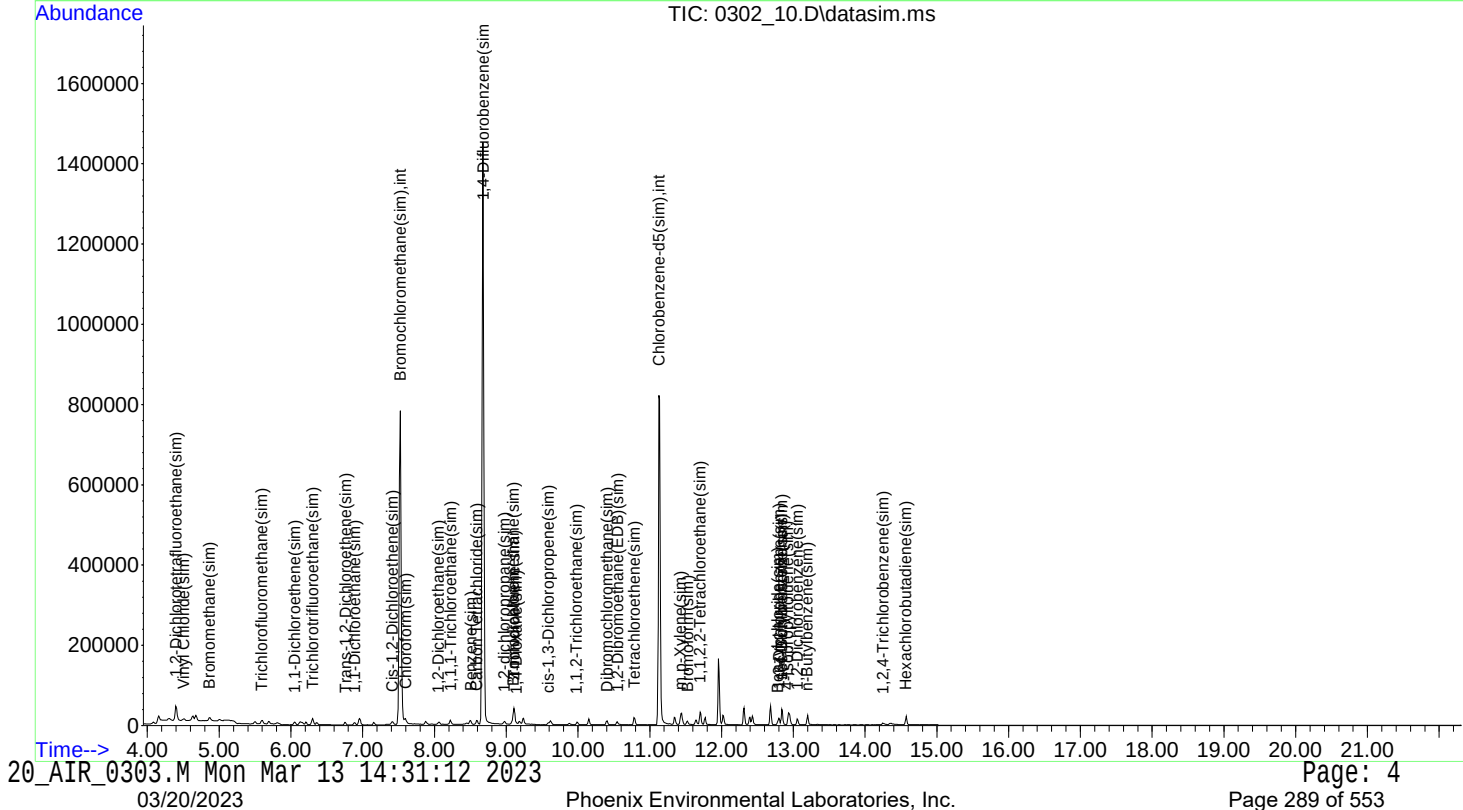
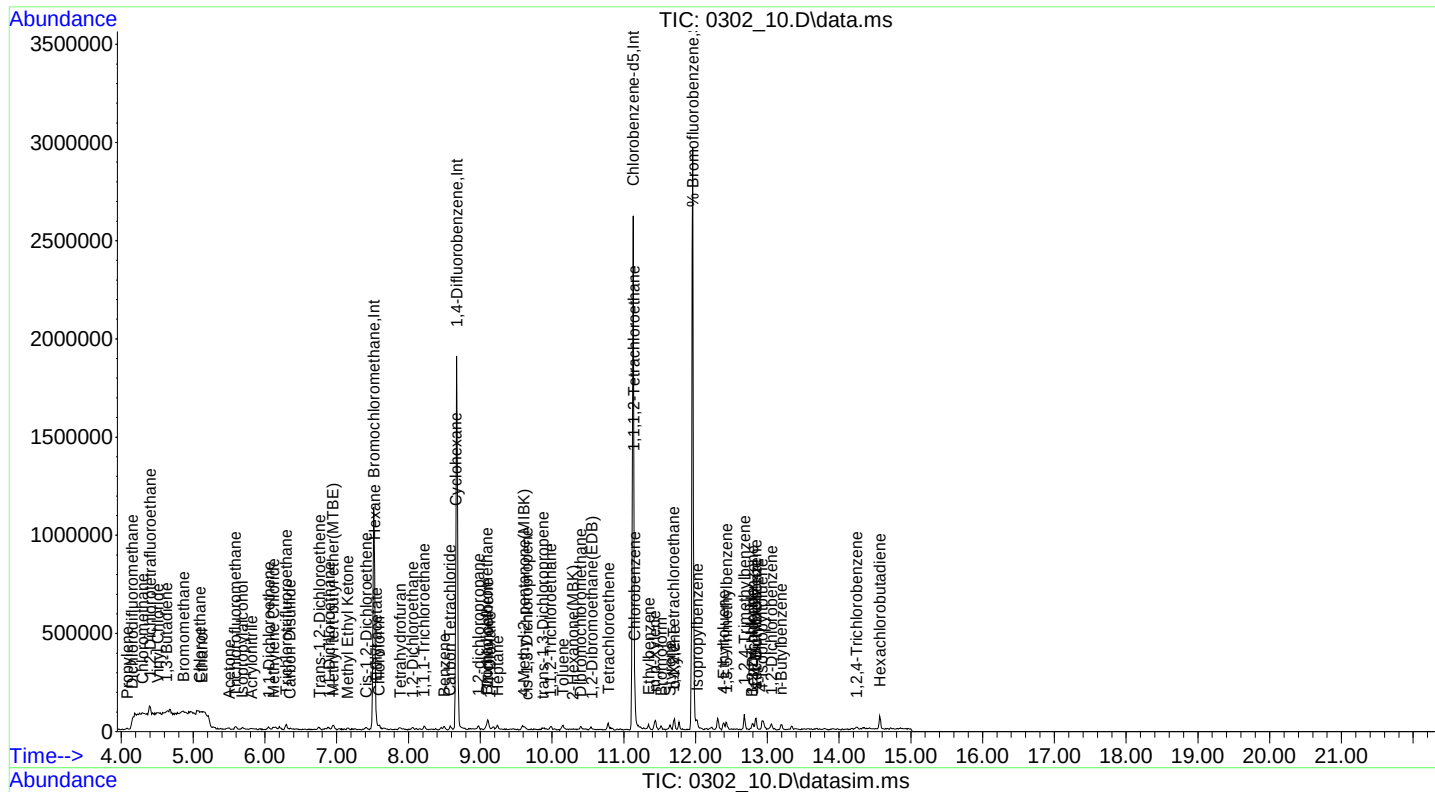
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	11557	0.094	ppbv	93
118]	n-Butylbenzene(sim)	13.192	91	15860	0.093	ppbv	82
119]	1,2,4-Trichlorobenzene...	14.245	180	5174	0.076	ppbv	95
120]	Hexachlorobutadiene(sim)	14.567	225	8003	0.092	ppbv	88

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

Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2023\CHEM20\03MAR\02\  
Data File : 0302_10.D  
Acq On : 2 Mar 2023 6:18 pm  
Operator :  
Client ID : ICAL 0.1  
Lab ID : 0.10 ppbV ; AirT01501Y  
ALS Vial : 7 Sample Multiplier: 1
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Quant Time: Mar 03 12:02:08 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Mar 03 11:01:54 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_11.D
 Acq On : 2 Mar 2023 6:49 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:56:52 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 11:02:56 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	344187	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1339223	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	591810	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	412604	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1339223	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	591810	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 730254 11.518 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 115.20%

Target Compounds					Qvalue
2) Propylene	4.078	41	7111m	0.231	ppbv 69
3) Dichlorodifluoromethane	4.153	85	23832	0.197	ppbv# 71
4) Chloromethane	4.304	50	13866	0.229	ppbv 84
5) 1,2-Dichlorotetrafluor...	4.391	85	43620	0.229	ppbv 96
6) Vinyl Chloride	4.498	62	15462	0.229	ppbv 87
7) 1,3-Butadiene	4.628	54	16306	0.288	ppbv# 86
8) Bromomethane	4.854	94	13262	0.193	ppbv# 75
9) Chloroethane	4.897	64	1797	0.067	ppbv 88
11) Ethanol	5.123	45	10962	0.456	ppbv# 31
12) Acetone	5.501	43	40292	0.261	ppbv 93
13) Trichlorofluoromethane	5.587	101	51302	0.212	ppbv# 93
14) Isopropylalcohol	5.695	45	39006	0.237	ppbv# 86
15) Acrylonitrile	5.803	53	15696	0.258	ppbv 89
16) 1,1-Dichloroethene	6.037	61	28435	0.215	ppbv# 92
17) Methylene Chloride	6.124	49	25752	0.237	ppbv 95
20) Carbon Disulfide	6.356	76	21827	0.124	ppbv# 90
21) Trichlorotrifluoroethane	6.296	101	16165	0.097	ppbv 90
22) Trans-1,2-Dichloroethene	6.744	61	10089	0.202	ppbv 97
23) 1,1-Dichloroethane	6.886	63	16371	0.247	ppbv 89
24) Methyl tert-butyl ethe...	6.941	73	18746	0.217	ppbv# 86
26) Methyl Ethyl Ketone	7.154	43	18828	0.204	ppbv# 95
27) Cis-1,2-Dichloroethene	7.413	61	13819	0.269	ppbv# 76
28) Hexane	7.528	57	13972	0.225	ppbv# 96
29) Chloroform	7.590	83	16253	0.227	ppbv 84
30) Ethyl acetate	7.538	61	3859	0.234	ppbv# 81
31) Tetrahydrofuran	7.871	42	15429m	0.278	ppbv 95
32) 1,2-Dichloroethane	8.059	62	13429	0.260	ppbv 98
33) 1,1,1-Trichloroethane	8.215	97	14341	0.196	ppbv# 86
34) Benzene	8.490	78	22524	0.219	ppbv# 80
35) Carbon Tetrachloride	8.581	117	10845	0.161	ppbv 83
36) Cyclohexane	8.660	84	10633	0.257	ppbv# 30
38) 1,2-dichloropropane	8.977	63	11593	0.233	ppbv# 86
39) Bromodichloromethane	9.090	83	12196	0.147	ppbv 85
40) Trichloroethene	9.112	130	12019	0.198	ppbv 93
42) 1,4-Dioxane	9.146	88	5734	0.205	ppbv# 77
44) Heptane	9.237	43	19204	0.225	ppbv 97
45) cis-1,3-Dichloropropene	9.591	75	10583	0.173	ppbv# 78
46) 4-Methyl-2-pentanone(M...	9.611	43	27725	0.213	ppbv# 96
47) trans-1,3-Dichloropropene	9.873	75	10334	0.190	ppbv 94
48) 1,1,2-Trichloroethane	9.989	97	11219	0.239	ppbv# 91
49) Toluene	10.144	91	25397	0.189	ppbv# 88
50) Dibromochloromethane	10.397	129	12729	0.157	ppbv# 85

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_11.D
 Acq On : 2 Mar 2023 6:49 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:56:52 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 11:02:56 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.280	43	18185	0.160	ppbv#	94
52)	1,2-Dibromoethane(EDB)	10.533	107	14919	0.190	ppbv	93
53)	Tetrachloroethene	10.775	166	12539	0.183	ppbv	87
55)	1,1,1,2-Tetrachloroethane	11.141	131	10342	0.196	ppbv	94
56)	Chlorobenzene	11.152	112	18338	0.192	ppbv#	27
57)	Ethylbenzene	11.346	91	37169	0.245	ppbv	89
58)	m,p-Xylene	11.439	91	45879	0.397	ppbv#	89
59)	Bromoform	11.521	173	10163	0.161	ppbv	95
60)	Styrene	11.644	104	23650	0.264	ppbv	96
61)	1,1,2,2-Tetrachloroethane	11.705	83	21185	0.206	ppbv	92
62)	o-Xylene	11.705	91	23312	0.183	ppbv	89
65)	Isopropylbenzene	12.023	105	35826	0.225	ppbv	96
67)	4-Ethyltoluene	12.392	105	37145	0.208	ppbv	99
68)	1,3,5-Trimethylbenzene	12.423	105	27978	0.217	ppbv	96
69)	1,2,4-Trimethylbenzene	12.679	105	28986	0.187	ppbv#	92
71)	Benzyl chloride	12.782	91	11099	0.131	ppbv#	87
72)	1,3-Dichlorobenzene	12.792	146	23132	0.212	ppbv	91
73)	1,4-Dichlorobenzene	12.833	146	17510	0.157	ppbv#	76
74)	sec-Butylbenzene	12.843	105	43227	0.197	ppbv	99
75)	4-Isopropyltoluene	12.926	119	45238	0.217	ppbv	97
76)	1,2-Dichlorobenzene	13.059	146	19541	0.194	ppbv#	87
77)	n-Butylbenzene	13.192	91	27807	0.172	ppbv#	89
78)	1,2,4-Trichlorobenzene	14.239	180	11893	0.189	ppbv#	80
80)	Hexachlorobutadiene	14.567	225	16010	0.189	ppbv	88
82)	1,2-Dichlorotetrafluor...	4.391	85	39170	0.183	ppbv	94
83)	Vinyl Chloride(sim)	4.504	62	14962	0.213	ppbv	100
84)	Bromomethane(sim)	4.854	94	13262	0.172	ppbv#	82
85)	Trichlorofluoromethane...	5.593	101	53705	0.221	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.059	62	13429	0.239	ppbv	98
87)	1,1,1-Trichloroethane(...	8.221	97	14481	0.195	ppbv#	95
88)	Benzene(sim)	8.490	78	22524	0.203	ppbv#	80
89)	Carbon Tetrachloride(sim)	8.586	117	13532	0.202	ppbv	99
90)	1,1-Dichloroethene(sim)	6.037	61	28435	0.214	ppbv#	93
91)	Trichlorotrifluoroetha...	6.293	101	16431	0.099	ppbv#	96
92)	Trans-1,2-Dichloroethe...	6.744	61	10089	0.185	ppbv	97
93)	1,1-Dichloroethane(sim)	6.883	63	13565	0.202	ppbv	98
94)	Cis-1,2-Dichloroethene...	7.413	61	13819	0.244	ppbv#	76
95)	Chloroform(sim)	7.596	83	15720	0.201	ppbv#	94
97)	1,2-dichloropropane(sim)	8.971	63	9934	0.193	ppbv	94
98)	Bromodichloromethane(sim)	9.090	83	11696	0.173	ppbv	85
99)	Trichloroethene(sim)	9.107	130	13078	0.202	ppbv	93
100)	1,4-Dioxane(sim)	9.146	88	5734	0.215	ppbv#	76
101)	cis-1,3-Dichloropropen...	9.587	75	11353	0.198	ppbv	97
102)	1,1,2-Trichloroethane(...	9.979	97	9391	0.213	ppbv	94
103)	Dibromochloromethane(sim)	10.402	129	14661	0.198	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.533	107	14919	0.204	ppbv	93
105)	Tetrachloroethene(sim)	10.781	166	16642	0.188	ppbv	99
107)	Bromoform(sim)	11.526	173	12566	0.192	ppbv	98
108)	m,p-Xylene(sim)	11.439	91	48028	0.361	ppbv#	88
109)	1,1,2,2-Tetrachloroeth...	11.700	83	21744	0.192	ppbv	100
112)	Benzyl chloride(sim)	12.782	91	12106	0.202	ppbv	88
113)	1,3-Dichlorobenzene(sim)	12.798	146	23513	0.190	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.833	146	17510	0.166	ppbv#	76
115)	sec-Butylbenzene(sim)	12.839	105	46824	0.203	ppbv	99
116)	4-Isopropyltoluene(sim)	12.926	119	43571	0.203	ppbv	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_11.D
Acq On : 2 Mar 2023 6:49 pm
Operator :
Client ID : ICAL 0.2
Lab ID : 0.20 ppbV ; AirT01501Y
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:56:52 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 11:02:56 2023
Response via : Initial Calibration

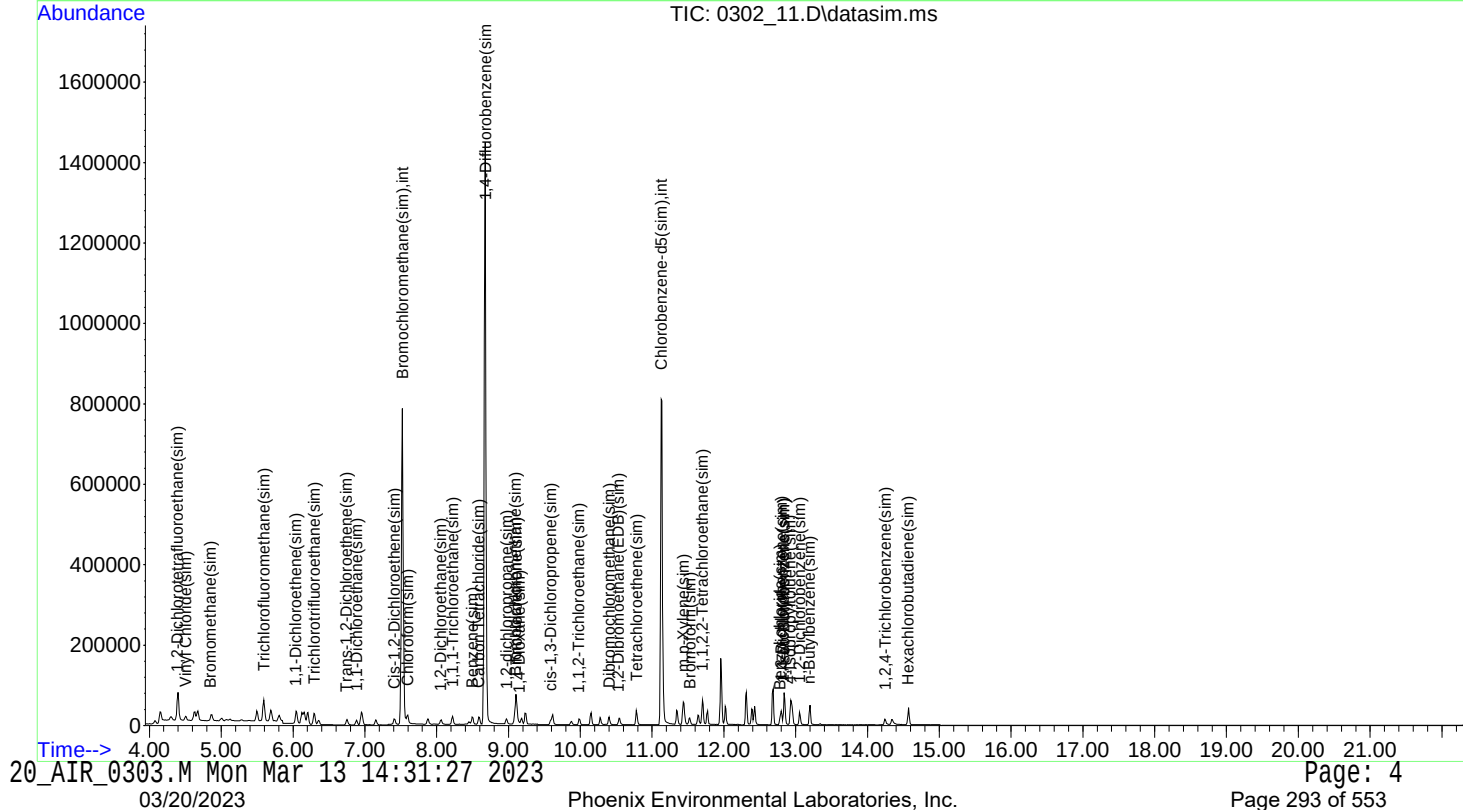
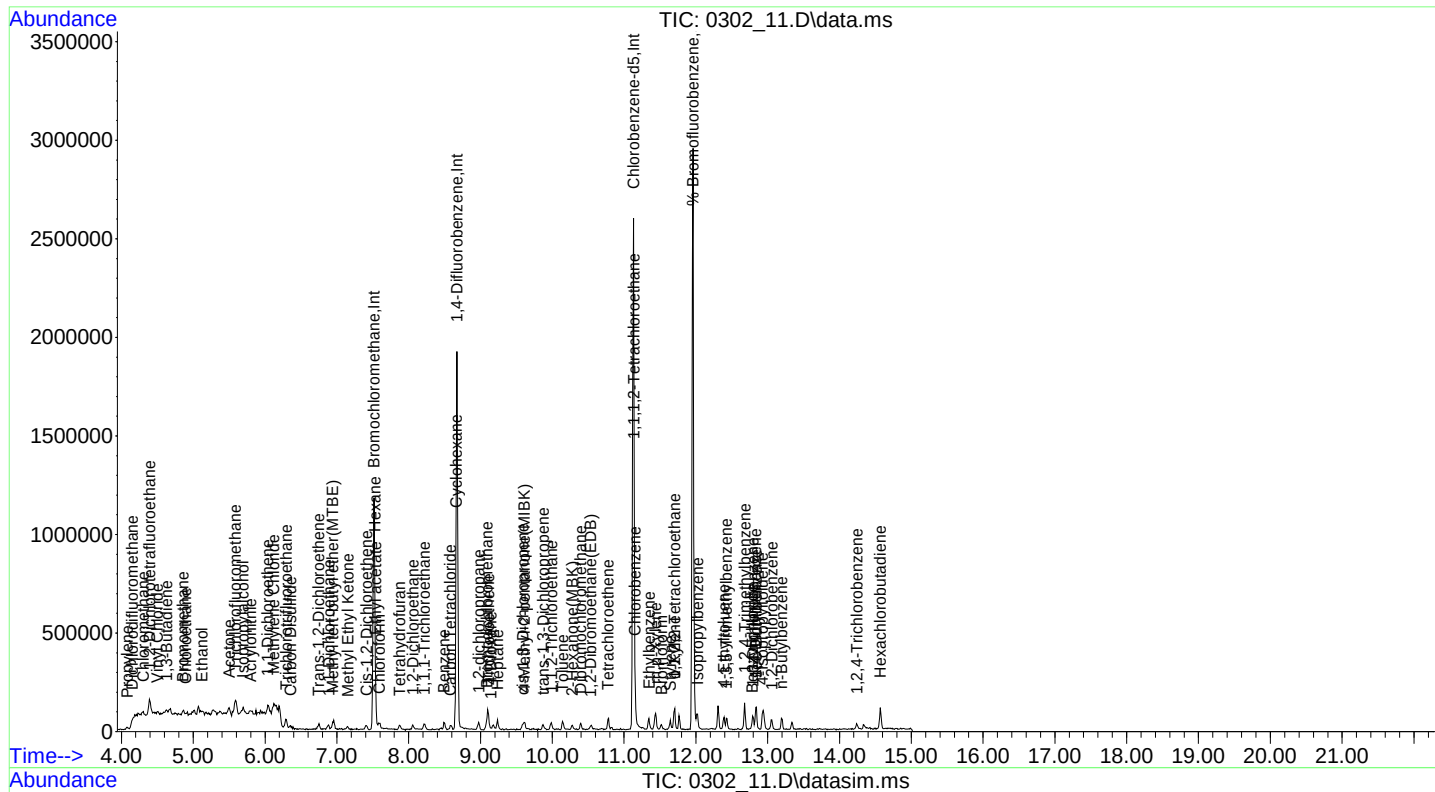
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	23685	0.193	ppbv	99
118]	n-Butylbenzene(sim)	13.192	91	27807	0.164	ppbv	89
119]	1,2,4-Trichlorobenzene...	14.245	180	11356	0.167	ppbv	96
120]	Hexachlorobutadiene(sim)	14.567	225	16057	0.188	ppbv	90

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_11.D
 Acq On : 2 Mar 2023 6:49 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.20 ppbV ; AirT01501Y
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 12:56:52 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 11:02:56 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_12.D
 Acq On : 2 Mar 2023 7:22 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 11:48:50 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Thu Mar 02 10:01:55 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	331988	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1333658	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	587858	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	414873	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1333658	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	587858	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 719946 10.623 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 106.20%

Target Compounds						Qvalue
2) Propylene	4.067	41	19029	0.641	ppbv#	84
3) Dichlorodifluoromethane	4.154	85	64118	0.550	ppbv	95
4) Chloromethane	4.305	50	30967	0.530	ppbv	88
5) 1,2-Dichlorotetrafluor...	4.391	85	96926	0.528	ppbv	97
6) Vinyl Chloride	4.509	62	38548	0.593	ppbv	93
7) 1,3-Butadiene	4.628	54	27617	0.505	ppbv#	81
8) Bromomethane	4.865	94	39114	0.591	ppbv#	90
9) Chloroethane	4.994	64	14293	0.551	ppbv#	76
11) Ethanol	5.124	45	18405	0.794	ppbv#	93
12) Acetone	5.501	43	81322	0.547	ppbv	96
13) Trichlorofluoromethane	5.587	101	117911	0.505	ppbv#	90
14) Isopropylalcohol	5.695	45	81136	0.512	ppbv#	89
15) Acrylonitrile	5.803	53	33869	0.576	ppbv	99
16) 1,1-Dichloroethene	6.038	61	66831	0.523	ppbv	98
17) Methylene Chloride	6.124	49	57616	0.550	ppbv	95
20) Carbon Disulfide	6.348	76	95142	0.561	ppbv#	95
21) Trichlorotrifluoroethane	6.296	101	94686	0.592	ppbv	91
22) Trans-1,2-Dichloroethene	6.744	61	22986	0.478	ppbv	93
23) 1,1-Dichloroethane	6.886	63	33834	0.529	ppbv	93
24) Methyl tert-butyl ethe...	6.933	73	41851	0.502	ppbv	93
26) Methyl Ethyl Ketone	7.146	43	50236	0.564	ppbv#	93
27) Cis-1,2-Dichloroethene	7.403	61	22404	0.452	ppbv	99
28) Hexane	7.528	57	29579	0.494	ppbv#	91
29) Chloroform	7.590	83	33174	0.479	ppbv	82
30) Ethyl acetate	7.538	61	8691	0.546	ppbv#	96
31) Tetrahydrofuran	7.872	42	28732	0.538	ppbv	97
32) 1,2-Dichloroethane	8.059	62	26069	0.524	ppbv	99
33) 1,1,1-Trichloroethane	8.215	97	36489	0.517	ppbv	86
34) Benzene	8.501	78	54304	0.546	ppbv	99
35) Carbon Tetrachloride	8.592	117	28982	0.446	ppbv	97
36) Cyclohexane	8.660	84	21160	0.529	ppbv#	70
38) 1,2-dichloropropane	8.977	63	28391	0.572	ppbv#	93
39) Bromodichloromethane	9.079	83	37140	0.450	ppbv	87
40) Trichloroethene	9.101	130	25210	0.418	ppbv	96
42) 1,4-Dioxane	9.135	88	13632	0.488	ppbv	89
44) Heptane	9.237	43	39428	0.463	ppbv#	92
45) cis-1,3-Dichloropropene	9.582	75	26432	0.434	ppbv	90
46) 4-Methyl-2-pentanone(M...	9.611	43	60189	0.463	ppbv	100
47) trans-1,3-Dichloropropene	9.873	75	24473	0.451	ppbv#	83
48) 1,1,2-Trichloroethane	9.989	97	23905	0.512	ppbv	95
49) Toluene	10.144	91	68718	0.515	ppbv#	97
50) Dibromochloromethane	10.397	129	28740	0.355	ppbv#	85

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_12.D
 Acq On : 2 Mar 2023 7:22 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 11:48:50 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Thu Mar 02 10:01:55 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.271	43	49230	0.436	ppbv#	91
52)	1,2-Dibromoethane(EDB)	10.542	107	36108	0.462	ppbv	85
53)	Tetrachloroethene	10.785	166	31053	0.456	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.141	131	21161	0.403	ppbv#	71
56)	Chlorobenzene	11.152	112	53118	0.559	ppbv#	81
57)	Ethylbenzene	11.346	91	81530	0.540	ppbv	97
58)	m,p-Xylene	11.439	91	125876	1.096	ppbv	96
59)	Bromoform	11.521	173	26755	0.427	ppbv	90
60)	Styrene	11.644	104	44762	0.503	ppbv#	85
61)	1,1,2,2-Tetrachloroethane	11.705	83	52416	0.513	ppbv	97
62)	o-Xylene	11.705	91	64643	0.512	ppbv	94
65)	Isopropylbenzene	12.023	105	81432	0.515	ppbv	95
67)	4-Ethyltoluene	12.392	105	97498	0.551	ppbv	96
68)	1,3,5-Trimethylbenzene	12.423	105	71474	0.558	ppbv#	92
69)	1,2,4-Trimethylbenzene	12.679	105	70381	0.457	ppbv	91
71)	Benzyl chloride	12.782	91	31795	0.377	ppbv#	91
72)	1,3-Dichlorobenzene	12.792	146	55029	0.509	ppbv	95
73)	1,4-Dichlorobenzene	12.833	146	48157	0.435	ppbv	94
74)	sec-Butylbenzene	12.844	105	119758	0.551	ppbv	99
75)	4-Isopropyltoluene	12.926	119	104224	0.502	ppbv	91
76)	1,2-Dichlorobenzene	13.049	146	51363	0.514	ppbv	95
77)	n-Butylbenzene	13.192	91	79704	0.496	ppbv#	91
78)	1,2,4-Trichlorobenzene	14.239	180	22038	0.353	ppbv#	68
80)	Hexachlorobutadiene	14.568	225	37203	0.443	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.391	85	95785	0.445	ppbv	96
83)	Vinyl Chloride(sim)	4.504	62	35119	0.497	ppbv	95
84)	Bromomethane(sim)	4.865	94	39114	0.505	ppbv#	89
85)	Trichlorofluoromethane...	5.593	101	132177	0.540	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.059	62	26070	0.461	ppbv	99
87)	1,1,1-Trichloroethane(...	8.221	97	36038	0.482	ppbv#	96
88)	Benzene(sim)	8.501	78	54304	0.486	ppbv	99
89)	Carbon Tetrachloride(sim)	8.586	117	33391	0.495	ppbv	99
90)	1,1-Dichloroethene(sim)	6.038	61	66831	0.501	ppbv	99
91)	Trichlorotrifluoroetha...	6.293	101	95912	0.573	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.744	61	22986	0.419	ppbv	93
93)	1,1-Dichloroethane(sim)	6.884	63	33860	0.502	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.403	61	22404	0.394	ppbv	100
95)	Chloroform(sim)	7.596	83	37607	0.479	ppbv	95
97)	1,2-dichloropropane(sim)	8.971	63	24983	0.487	ppbv	97
98)	Bromodichloromethane(sim)	9.079	83	37140	0.550	ppbv	87
99)	Trichloroethene(sim)	9.107	130	30896	0.479	ppbv	99
100)	1,4-Dioxane(sim)	9.135	88	13632	0.513	ppbv	85
101)	cis-1,3-Dichloropropen...	9.587	75	27287	0.478	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	24320	0.553	ppbv	93
103)	Dibromochloromethane(sim)	10.402	129	36975	0.502	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.542	107	36505	0.502	ppbv	87
105)	Tetrachloroethene(sim)	10.781	166	42486	0.482	ppbv	97
107)	Bromoform(sim)	11.526	173	32451	0.500	ppbv	99
108)	m,p-Xylene(sim)	11.439	91	128646	0.974	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.701	83	55240	0.492	ppbv	98
112)	Benzyl chloride(sim)	12.782	91	31795	0.533	ppbv	91
113)	1,3-Dichlorobenzene(sim)	12.798	146	63081	0.514	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.833	146	48157	0.458	ppbv	94
115)	sec-Butylbenzene(sim)	12.839	105	118199	0.516	ppbv	99
116)	4-Isopropyltoluene(sim)	12.926	119	105178	0.492	ppbv	92

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_12.D
Acq On : 2 Mar 2023 7:22 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.50 ppbV ; AirT01501Y
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 11:48:50 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Mar 02 10:01:55 2023
Response via : Initial Calibration

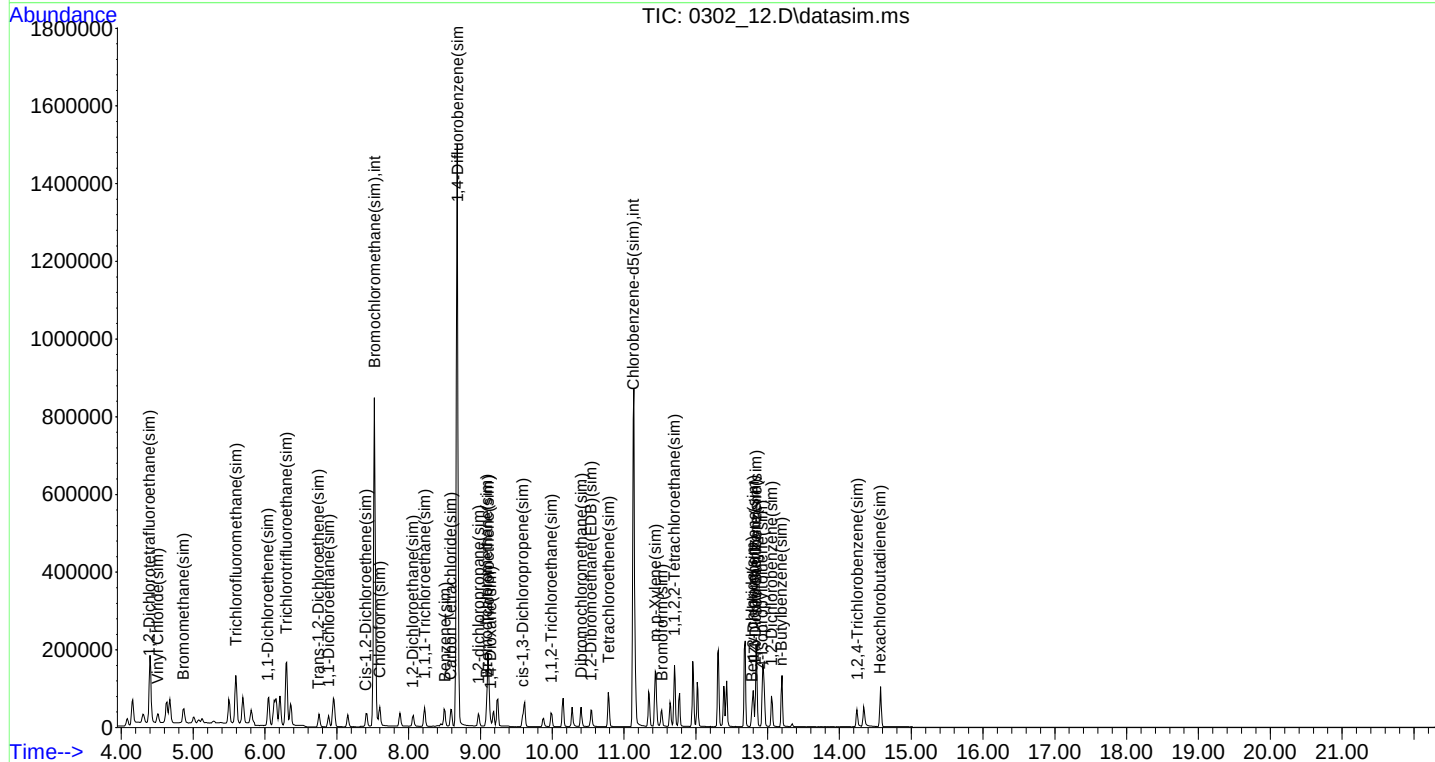
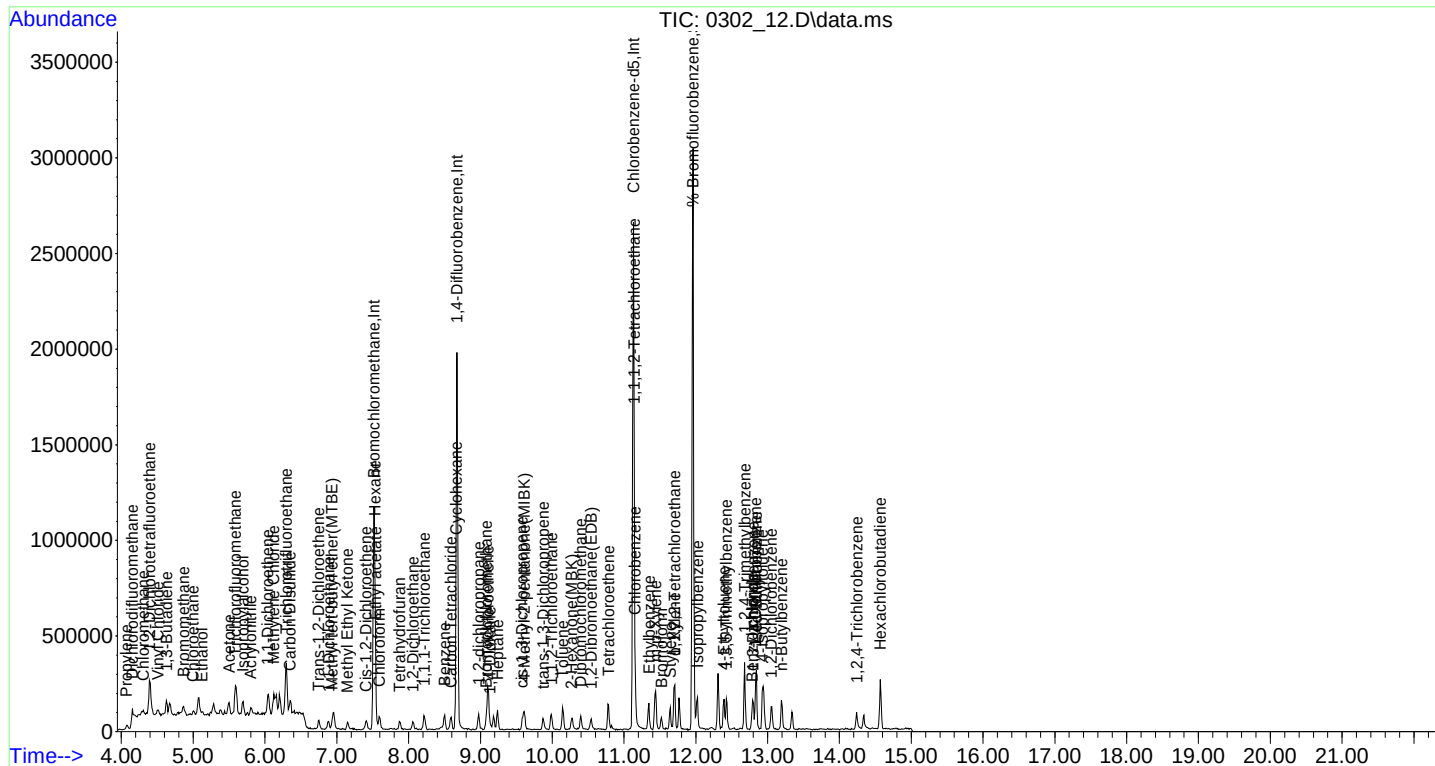
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	60093	0.493	ppbv	100
118]	n-Butylbenzene(sim)	13.192	91	79704	0.474	ppbv	91
119]	1,2,4-Trichlorobenzene...	14.245	180	31147	0.462	ppbv	98
120]	Hexachlorobutadiene(sim)	14.568	225	37564	0.457	ppbv	92

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_12.D
 Acq On : 2 Mar 2023 7:22 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.50 ppbV ; AirT01501Y
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 11:48:50 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Thu Mar 02 10:01:55 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_13.D
 Acq On : 2 Mar 2023 7:55 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV ; AirT01502B
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 11:50:01 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:49:28 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	344042	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1373003	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	628881	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	425593	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1374174	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	628689	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	760238	9.871	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds						Qvalue
2) Propylene	4.078	41	78833	2.561	ppbv	96
3) Dichlorodifluoromethane	4.154	85	293788	2.432	ppbv	98
4) Chloromethane	4.304	50	146466	2.419	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.391	85	468664	2.465	ppbv	98
6) Vinyl Chloride	4.498	62	166982	2.478	ppbv	97
7) 1,3-Butadiene	4.628	54	140376	2.479	ppbv	98
8) Bromomethane	4.865	94	175759	2.561	ppbv	97
9) Chloroethane	5.005	64	70610	2.627	ppbv	86
11) Ethanol	5.113	45	68004	2.832	ppbv#	86
12) Acetone	5.490	43	377501	2.450	ppbv	96
13) Trichlorofluoromethane	5.587	101	608238	2.515	ppbv	100
14) Isopropylalcohol	5.684	45	416823	2.538	ppbv	94
15) Acrylonitrile	5.803	53	147187	2.416	ppbv	88
16) 1,1-Dichloroethene	6.046	61	332711	2.513	ppbv	97
17) Methylene Chloride	6.124	49	270602	2.494	ppbv	94
20) Carbon Disulfide	6.357	76	458082	2.609	ppbv	96
21) Trichlorotrifluoroethane	6.296	101	433531	2.614	ppbv	95
22) Trans-1,2-Dichloroethene	6.752	61	125026	2.510	ppbv	98
23) 1,1-Dichloroethane	6.878	63	154944	2.339	ppbv	99
24) Methyl tert-butyl ethe...	6.933	73	212569	2.459	ppbv	99
26) Methyl Ethyl Ketone	7.146	43	236130	2.560	ppbv#	96
27) Cis-1,2-Dichloroethene	7.413	61	133285	2.597	ppbv	87
28) Hexane	7.528	57	153228	2.467	ppbv#	98
29) Chloroform	7.590	83	168734	2.353	ppbv	95
30) Ethyl acetate	7.528	61	36617	2.221	ppbv	87
31) Tetrahydrofuran	7.872	42	128340	2.317	ppbv	97
32) 1,2-Dichloroethane	8.059	62	126502	2.451	ppbv	92
33) 1,1,1-Trichloroethane	8.215	97	169547	2.316	ppbv	98
34) Benzene	8.501	78	244796	2.376	ppbv	97
35) Carbon Tetrachloride	8.592	117	158823	2.360	ppbv	99
36) Cyclohexane	8.660	84	96349	2.326	ppbv#	87
38) 1,2-dichloropropane	8.977	63	117233	2.295	ppbv	95
39) Bromodichloromethane	9.090	83	182046	2.144	ppbv	96
40) Trichloroethene	9.101	130	129147	2.079	ppbv	95
42) 1,4-Dioxane	9.124	88	58482	2.035	ppbv	95
44) Heptane	9.237	43	202339	2.309	ppbv	96
45) cis-1,3-Dichloropropene	9.581	75	136107	2.173	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.611	43	298993	2.236	ppbv#	96
47) trans-1,3-Dichloropropene	9.873	75	130538	2.338	ppbv	96
48) 1,1,2-Trichloroethane	9.989	97	111690	2.323	ppbv	98
49) Toluene	10.144	91	323441	2.353	ppbv	96
50) Dibromochloromethane	10.397	129	165795	1.991	ppbv	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_13.D
 Acq On : 2 Mar 2023 7:55 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV ; AirT01502B
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 11:50:01 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:49:28 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.271	43	264383	2.275	ppbv#	97
52)	1,2-Dibromoethane(EDB)	10.542	107	185597	2.308	ppbv	94
53)	Tetrachloroethene	10.775	166	151030	2.154	ppbv	96
55)	1,1,1,2-Tetrachloroethane	11.141	131	134698	2.398	ppbv	97
56)	Chlorobenzene	11.152	112	263926	2.595	ppbv	100
57)	Ethylbenzene	11.346	91	395873	2.451	ppbv	97
58)	m,p-Xylene	11.439	91	619785	5.046	ppbv	98
59)	Bromoform	11.521	173	147774	2.207	ppbv	96
60)	Styrene	11.644	104	231388	2.431	ppbv#	93
61)	1,1,2,2-Tetrachloroethane	11.695	83	263279	2.406	ppbv	98
62)	o-Xylene	11.705	91	321918	2.385	ppbv	98
65)	Isopropylbenzene	12.023	105	430517	2.546	ppbv	99
67)	4-Ethyltoluene	12.392	105	501091	2.645	ppbv	98
68)	1,3,5-Trimethylbenzene	12.423	105	331205	2.417	ppbv	91
69)	1,2,4-Trimethylbenzene	12.679	105	389505	2.365	ppbv	98
71)	Benzyl chloride	12.782	91	203498	2.254	ppbv	96
72)	1,3-Dichlorobenzene	12.792	146	281149	2.429	ppbv	97
73)	1,4-Dichlorobenzene	12.833	146	288969	2.442	ppbv	93
74)	sec-Butylbenzene	12.844	105	540739	2.325	ppbv	96
75)	4-Isopropyltoluene	12.926	119	545622	2.458	ppbv	99
76)	1,2-Dichlorobenzene	13.049	146	277457	2.597	ppbv	98
77)	n-Butylbenzene	13.192	91	438570	2.551	ppbv	96
78)	1,2,4-Trichlorobenzene	14.239	180	149524	2.242	ppbv	90
80)	Hexachlorobutadiene	14.567	225	211330	2.354	ppbv	94
82)	1,2-Dichlorotetrafluor...	4.391	85	467196	2.118	ppbv	98
83)	Vinyl Chloride(sim)	4.504	62	171860	2.372	ppbv	99
84)	Bromomethane(sim)	4.865	94	175759	2.212	ppbv	97
85)	Trichlorofluoromethane...	5.593	101	655054	2.610	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.059	62	126502	2.183	ppbv	92
87)	1,1,1-Trichloroethane(...	8.221	97	184879	2.409	ppbv#	98
88)	Benzene(sim)	8.501	78	244796	2.137	ppbv	97
89)	Carbon Tetrachloride(sim)	8.586	117	174525	2.520	ppbv	98
90)	1,1-Dichloroethene(sim)	6.046	61	332711	2.430	ppbv	96
91)	Trichlorotrifluoroetha...	6.293	101	471598	2.746	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.752	61	125026	2.224	ppbv	98
93)	1,1-Dichloroethane(sim)	6.884	63	165216	2.387	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.413	61	133285	2.283	ppbv	86
95)	Chloroform(sim)	7.596	83	192819	2.395	ppbv	99
97)	1,2-dichloropropane(sim)	8.971	63	118838	2.247	ppbv	94
98)	Bromodichloromethane(sim)	9.090	83	182046	2.617	ppbv	97
99)	Trichloroethene(sim)	9.107	130	154426	2.322	ppbv	98
100)	1,4-Dioxane(sim)	9.124	88	58482	2.135	ppbv	98
101)	cis-1,3-Dichloropropen...	9.587	75	143662	2.442	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	111690	2.465	ppbv	98
103)	Dibromochloromethane(sim)	10.402	129	207997	2.739	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.542	107	185597	2.478	ppbv	94
105)	Tetrachloroethene(sim)	10.781	166	208583	2.297	ppbv	98
107)	Bromoform(sim)	11.526	173	195035	2.810	ppbv	99
108)	m,p-Xylene(sim)	11.439	91	630368	4.462	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.700	83	283844	2.365	ppbv	100
112)	Benzyl chloride(sim)	12.782	91	201949	3.168	ppbv	96
113)	1,3-Dichlorobenzene(sim)	12.798	146	339385	2.587	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.833	146	288969	2.571	ppbv	93
115)	sec-Butylbenzene(sim)	12.839	105	593418	2.422	ppbv	99
116)	4-Isopropyltoluene(sim)	12.926	119	544255	2.382	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_13.D
Acq On : 2 Mar 2023 7:55 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5 ppbV ; AirT01502B
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 11:50:01 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:49:28 2023
Response via : Initial Calibration

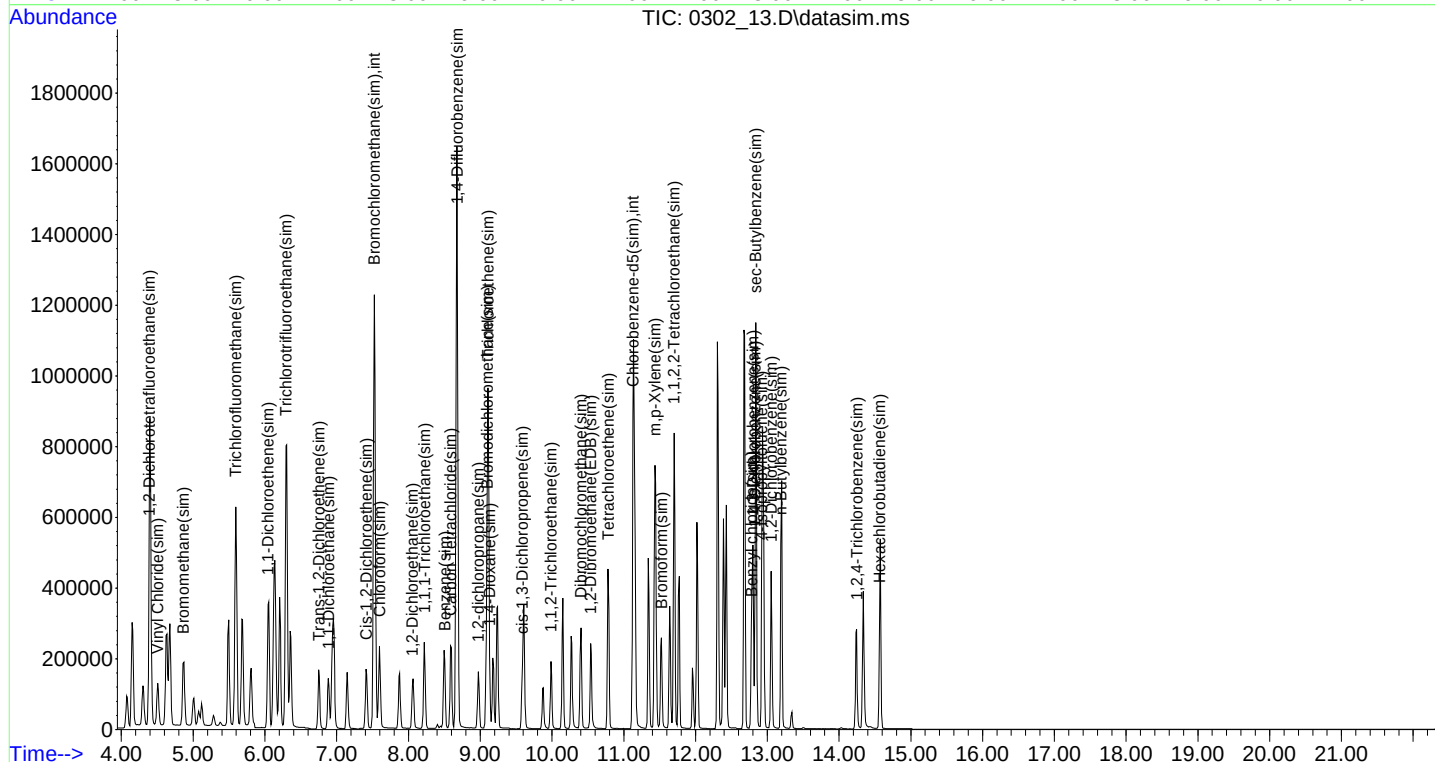
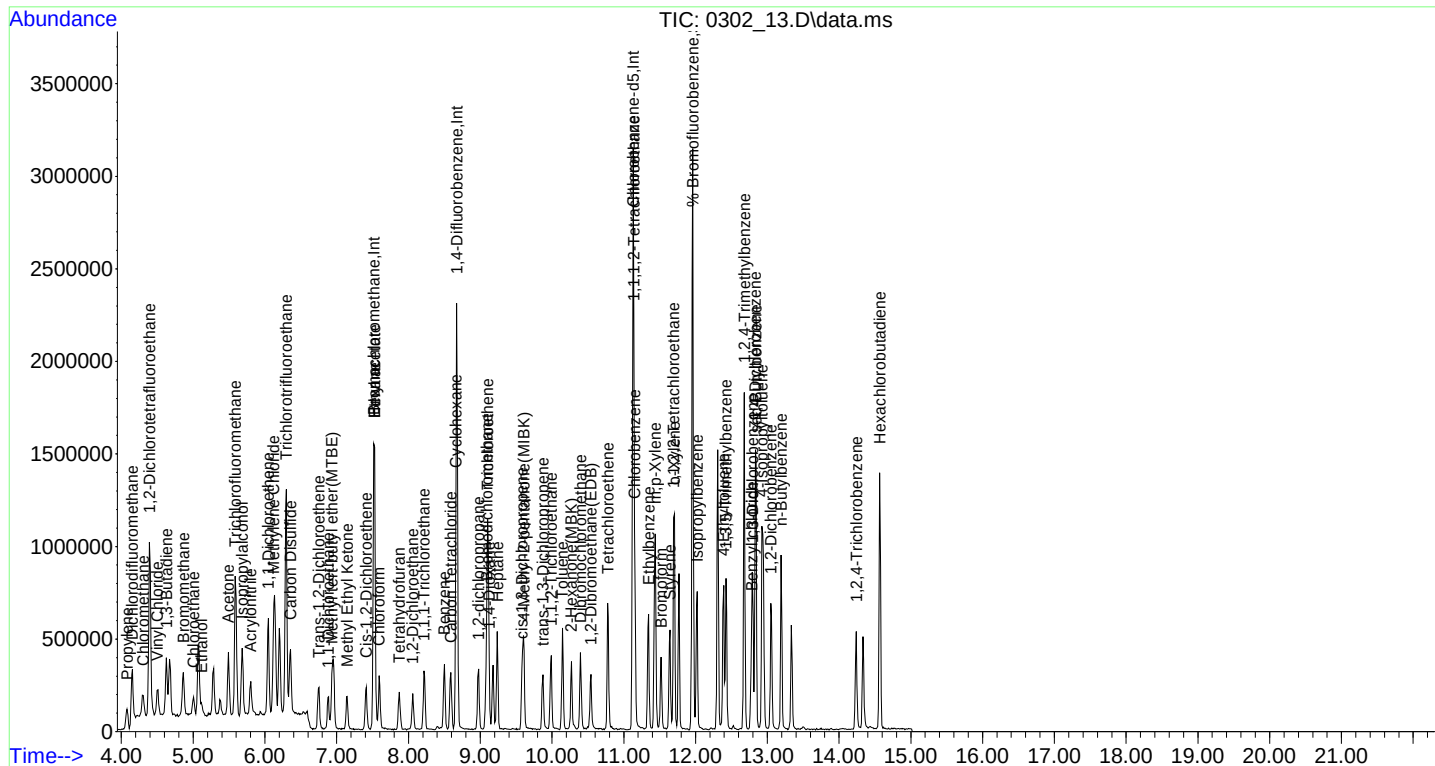
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	318434	2.445	ppbv	99
118]	n-Butylbenzene(sim)	13.192	91	438570	2.436	ppbv	96
119]	1,2,4-Trichlorobenzene...	14.245	180	195538	2.712	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_13.D
 Acq On : 2 Mar 2023 7:55 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ppbV ; AirT01502B
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 11:50:01 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 10:49:28 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_14.D
 Acq On : 2 Mar 2023 8:26 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppbV ; AirT01501Z
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 03 11:50:06 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:49:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	359484	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1352405	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	671283	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	427720	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1352405	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	670645	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 757100 9.209 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 92.10%

Target Compounds						Qvalue
2) Propylene	4.067	41	176025	5.473	ppbv	97
3) Dichlorodifluoromethane	4.143	85	679409	5.382	ppbv	99
4) Chloromethane	4.293	50	336623	5.321	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.390	85	1027641	5.174	ppbv	99
6) Vinyl Chloride	4.498	62	348622	4.950	ppbv	97
7) 1,3-Butadiene	4.628	54	311006	5.257	ppbv	97
8) Bromomethane	4.865	94	383742	5.352	ppbv	98
9) Chloroethane	5.005	64	172645	6.148	ppbv	98
11) Ethanol	5.113	45	129020	5.142	ppbv#	88
12) Acetone	5.479	43	811413	5.041	ppbv	96
13) Trichlorofluoromethane	5.587	101	1345183	5.323	ppbv	99
14) Isopropylalcohol	5.673	45	903373	5.263	ppbv	97
15) Acrylonitrile	5.802	53	329531	5.176	ppbv	88
16) 1,1-Dichloroethene	6.046	61	724446	5.237	ppbv	95
17) Methylene Chloride	6.115	49	587534	5.183	ppbv	97
20) Carbon Disulfide	6.356	76	1041887	5.678	ppbv	100
21) Trichlorotrifluoroethane	6.287	101	981228	5.662	ppbv	94
22) Trans-1,2-Dichloroethene	6.744	61	270934	5.206	ppbv	97
23) 1,1-Dichloroethane	6.878	63	352420	5.092	ppbv	99
24) Methyl tert-butyl ethe...	6.925	73	470181	5.205	ppbv	99
26) Methyl Ethyl Ketone	7.130	43	501559	5.204	ppbv	95
27) Cis-1,2-Dichloroethene	7.413	61	292036	5.446	ppbv	86
28) Hexane	7.528	57	325422	5.014	ppbv	89
29) Chloroform	7.590	83	396553	5.292	ppbv	97
30) Ethyl acetate	7.528	61	89308	5.185	ppbv	92
31) Tetrahydrofuran	7.861	42	291657	5.040	ppbv	93
32) 1,2-Dichloroethane	8.059	62	256293	4.753	ppbv	94
33) 1,1,1-Trichloroethane	8.215	97	371617	4.859	ppbv#	93
34) Benzene	8.501	78	558147	5.185	ppbv	96
35) Carbon Tetrachloride	8.592	117	368021	5.234	ppbv	99
36) Cyclohexane	8.660	84	223205	5.158	ppbv	95
38) 1,2-dichloropropane	8.977	63	264149	5.250	ppbv	98
39) Bromodichloromethane	9.090	83	415843	4.972	ppbv	98
40) Trichloroethene	9.101	130	290997	4.756	ppbv	97
42) 1,4-Dioxane	9.112	88	133799	4.727	ppbv	96
44) Heptane	9.237	43	454938	5.271	ppbv	95
45) cis-1,3-Dichloropropene	9.581	75	319656	5.180	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.601	43	675443	5.129	ppbv	96
47) trans-1,3-Dichloropropene	9.872	75	292652	5.322	ppbv	98
48) 1,1,2-Trichloroethane	9.989	97	236065	4.985	ppbv	96
49) Toluene	10.144	91	724955	5.355	ppbv	97
50) Dibromochloromethane	10.397	129	435749	5.313	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_14.D
 Acq On : 2 Mar 2023 8:26 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 ppbV ; AirT01501Z
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 03 11:50:06 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:49:39 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.261	43	631613	5.519	ppbv	95
52)	1,2-Dibromoethane(EDB)	10.542	107	421343	5.320	ppbv	94
53)	Tetrachloroethene	10.775	166	358242	5.188	ppbv	95
55)	1,1,1,2-Tetrachloroethane	11.141	131	318221	5.308	ppbv	97
56)	Chlorobenzene	11.151	112	573029	5.279	ppbv	95
57)	Ethylbenzene	11.346	91	879269	5.100	ppbv	100
58)	m,p-Xylene	11.438	91	1420977	10.839	ppbv	97
59)	Bromoform	11.520	173	383219	5.361	ppbv	99
60)	Styrene	11.643	104	539887	5.313	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.695	83	591056	5.061	ppbv	97
62)	o-Xylene	11.705	91	705622	4.897	ppbv	99
65)	Isopropylbenzene	12.023	105	974678	5.399	ppbv	100
67)	4-Ethyltoluene	12.392	105	1112188	5.500	ppbv	96
68)	1,3,5-Trimethylbenzene	12.423	105	767827	5.250	ppbv	92
69)	1,2,4-Trimethylbenzene	12.679	105	894661	5.088	ppbv	95
71)	Benzyl chloride	12.782	91	542018	5.624	ppbv	98
72)	1,3-Dichlorobenzene	12.792	146	646735	5.235	ppbv	97
73)	1,4-Dichlorobenzene	12.833	146	624111	4.940	ppbv	97
74)	sec-Butylbenzene	12.843	105	1274894	5.135	ppbv	98
75)	4-Isopropyltoluene	12.925	119	1238121	5.225	ppbv	99
76)	1,2-Dichlorobenzene	13.049	146	614701	5.390	ppbv	99
77)	n-Butylbenzene	13.192	91	1005150	5.478	ppbv	98
78)	1,2,4-Trichlorobenzene	14.239	180	351190	4.933	ppbv	92
80)	Hexachlorobutadiene	14.567	225	447279	4.667	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.390	85	1027039	4.632	ppbv	98
83)	Vinyl Chloride(sim)	4.504	62	378480	5.198	ppbv	100
84)	Bromomethane(sim)	4.865	94	383742	4.805	ppbv	98
85)	Trichlorofluoromethane...	5.592	101	1461766	5.794	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.059	62	256446	4.403	ppbv	94
87)	1,1,1-Trichloroethane(...	8.221	97	427648	5.544	ppbv#	98
88)	Benzene(sim)	8.501	78	558911	4.855	ppbv	96
89)	Carbon Tetrachloride(sim)	8.586	117	421773	6.060	ppbv	100
90)	1,1-Dichloroethene(sim)	6.046	61	724446	5.264	ppbv	93
91)	Trichlorotrifluoroetha...	6.293	101	1052524	6.099	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.744	61	270934	4.795	ppbv	97
93)	1,1-Dichloroethane(sim)	6.883	63	370986	5.333	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.413	61	292036	4.977	ppbv	86
95)	Chloroform(sim)	7.596	83	433532	5.359	ppbv	98
97)	1,2-dichloropropane(sim)	8.971	63	269079	5.171	ppbv	95
98)	Bromodichloromethane(sim)	9.090	83	416097	6.077	ppbv	99
99)	Trichloroethene(sim)	9.107	130	352997	5.394	ppbv	98
100)	1,4-Dioxane(sim)	9.112	88	133799	4.964	ppbv	97
101)	cis-1,3-Dichloropropen...	9.587	75	333273	5.757	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	235004	5.270	ppbv	96
103)	Dibromochloromethane(sim)	10.402	129	518928	6.943	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.542	107	421519	5.717	ppbv	95
105)	Tetrachloroethene(sim)	10.781	166	466267	5.217	ppbv	99
107)	Bromoform(sim)	11.526	173	504109	6.809	ppbv	100
108)	m,p-Xylene(sim)	11.438	91	1439537	9.553	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.700	83	648314	5.063	ppbv	100
112)	Benzyl chloride(sim)	12.782	91	542018	7.970	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.798	146	771726	5.514	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.833	146	624376	5.208	ppbv	97
115)	sec-Butylbenzene(sim)	12.839	105	1356354	5.190	ppbv	99
116)	4-Isopropyltoluene(sim)	12.925	119	1238202	5.079	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_14.D
Acq On : 2 Mar 2023 8:26 pm
Operator :
Client ID : ICAL 5
Lab ID : 5.0 ppbV ; AirT01501Z
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 03 11:50:06 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:49:39 2023
Response via : Initial Calibration

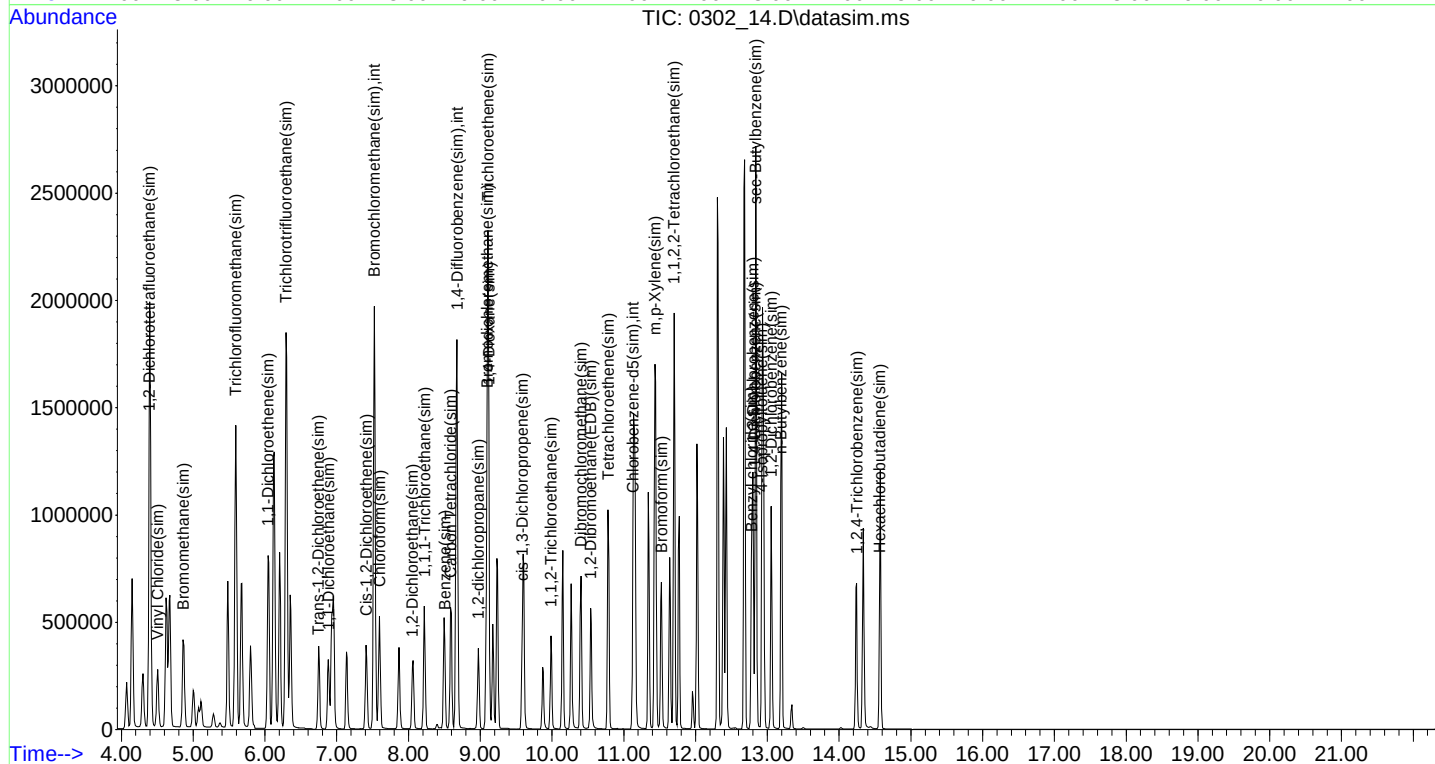
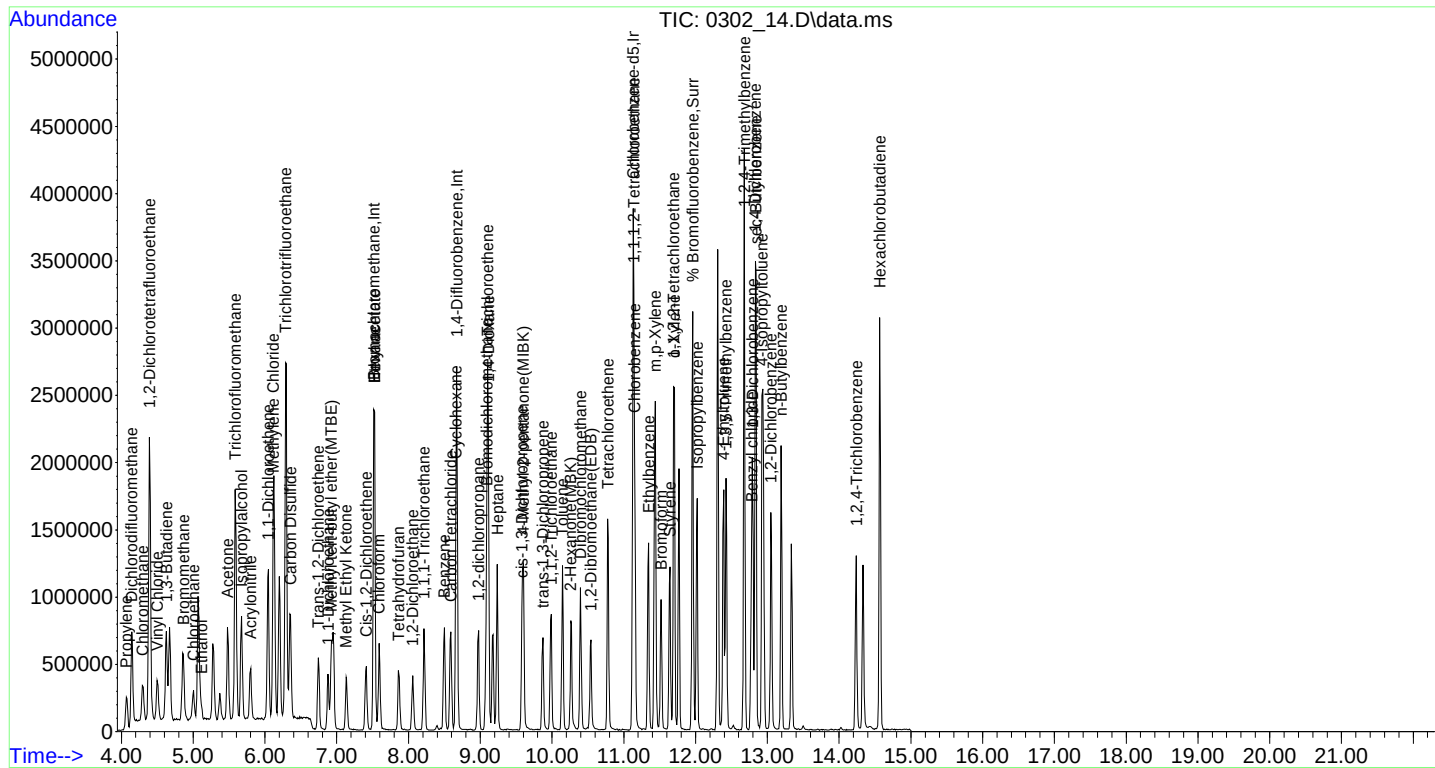
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	727225	5.235	ppbv	99
118]	n-Butylbenzene(sim)	13.192	91	1005150	5.235	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.244	180	454277	5.907	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

```
Data Path : H:\AIR2023\CHEM20\03MAR\02\  
Data File : 0302_14.D  
Acq On : 2 Mar 2023 8:26 pm  
Operator :  
Client ID : ICAL 5  
Lab ID : 5.0 ppbV ; AirT01501Z  
ALS Vial : 9 Sample Multiplier: 1
```

Quant Time: Mar 03 11:50:06 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:49:39 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_15.D
 Acq On : 2 Mar 2023 8:59 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppbV ; AirT01501Z
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 03 11:50:11 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:49:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	386738	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1400145	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	891598	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	469872	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1403246	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	891598	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 774198 7.090 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 70.90%

Target Compounds						Qvalue
2) Propylene	4.067	41	404489	11.690	ppbv	96
3) Dichlorodifluoromethane	4.143	85	3094726	22.786	ppbv	99
4) Chloromethane	4.294	50	1500390	22.045	ppbv	96
5) 1,2-Dichlorotetrafluor...	4.391	85	5006970	23.431	ppbv	98
6) Vinyl Chloride	4.498	62	1652784	21.816	ppbv	95
7) 1,3-Butadiene	4.628	54	1375732	21.615	ppbv	96
8) Bromomethane	4.865	94	1771838	22.969	ppbv	94
9) Chloroethane	5.005	64	751874	24.886	ppbv	95
11) Ethanol	5.102	45	613577	22.729	ppbv#	95
12) Acetone	5.469	43	3804888	21.972	ppbv	94
13) Trichlorofluoromethane	5.587	101	6542936	24.069	ppbv	99
14) Isopropylalcohol	5.652	45	4150764	22.480	ppbv	96
15) Acrylonitrile	5.792	53	1455523	21.252	ppbv	95
16) 1,1-Dichloroethene	6.046	61	3476256	23.357	ppbv	93
17) Methylene Chloride	6.124	49	2774119	22.747	ppbv	96
20) Carbon Disulfide	6.357	76	4928078	24.965	ppbv	100
21) Trichlorotrifluoroethane	6.296	101	4869502	26.119	ppbv	96
22) Trans-1,2-Dichloroethene	6.744	61	1296088	23.150	ppbv	97
23) 1,1-Dichloroethane	6.878	63	1722057	23.128	ppbv	98
24) Methyl tert-butyl ethe...	6.918	73	2360756	24.294	ppbv	98
26) Methyl Ethyl Ketone	7.122	43	2467419	23.797	ppbv	94
27) Cis-1,2-Dichloroethene	7.413	61	1328556	23.028	ppbv	91
28) Hexane	7.528	57	1697656	24.314	ppbv	88
29) Chloroform	7.590	83	1985601	24.629	ppbv	97
30) Ethyl acetate	7.517	61	441257	23.814	ppbv	92
31) Tetrahydrofuran	7.851	42	1391610	22.352	ppbv	95
32) 1,2-Dichloroethane	8.059	62	1300518	22.419	ppbv	90
33) 1,1,1-Trichloroethane	8.215	97	1989510	24.178	ppbv	94
34) Benzene	8.501	78	2781606	24.018	ppbv	97
35) Carbon Tetrachloride	8.592	117	2072833	27.404	ppbv	99
36) Cyclohexane	8.671	84	1041547	22.372	ppbv	96
38) 1,2-dichloropropane	8.977	63	1282623	24.625	ppbv	95
39) Bromodichloromethane	9.090	83	2592430	29.939	ppbv	99
40) Trichloroethene	9.101	130	1843406	29.099	ppbv	99
42) 1,4-Dioxane	9.101	88	794632	27.115	ppbv	95
44) Heptane	9.237	43	2244910	25.125	ppbv	92
45) cis-1,3-Dichloropropene	9.582	75	1801757	28.202	ppbv	98
46) 4-Methyl-2-pentanone(M...	9.591	43	3584847	26.295	ppbv	95
47) trans-1,3-Dichloropropene	9.873	75	1544849	27.133	ppbv	96
48) 1,1,2-Trichloroethane	9.989	97	1217085	24.825	ppbv	96
49) Toluene	10.144	91	3571695	25.481	ppbv	97
50) Dibromochloromethane	10.397	129	2660507	31.336	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_15.D
 Acq On : 2 Mar 2023 8:59 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ppbV ; AirT01501Z
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 03 11:50:11 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 10:49:39 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.261	43	3133015	26.442	ppbv#	95
52)	1,2-Dibromoethane(EDB)	10.542	107	2180904	26.597	ppbv	96
53)	Tetrachloroethene	10.775	166	1985928	27.778	ppbv	95
55)	1,1,1,2-Tetrachloroethane	11.141	131	2010467	25.248	ppbv	98
56)	Chlorobenzene	11.152	112	3161717	21.931	ppbv	97
57)	Ethylbenzene	11.346	91	4736626	20.686	ppbv	98
58)	m,p-Xylene	11.439	91	8238643	47.315	ppbv	96
59)	Bromoform	11.521	173	2622136	27.618	ppbv	99
60)	Styrene	11.644	104	2748352	20.365	ppbv	94
61)	1,1,2,2-Tetrachloroethane	11.695	83	3664843	23.627	ppbv	98
62)	o-Xylene	11.705	91	4539709	23.718	ppbv	99
65)	Isopropylbenzene	12.023	105	5327219	22.217	ppbv	99
67)	4-Ethyltoluene	12.392	105	6125045	22.806	ppbv	97
68)	1,3,5-Trimethylbenzene	12.423	105	4269400	21.976	ppbv#	94
69)	1,2,4-Trimethylbenzene	12.679	105	6815802	29.184	ppbv	96
71)	Benzyl chloride	12.782	91	3836975	29.977	ppbv	96
72)	1,3-Dichlorobenzene	12.792	146	3698443	22.541	ppbv	97
73)	1,4-Dichlorobenzene	12.833	146	4790461	28.550	ppbv	96
74)	sec-Butylbenzene	12.844	105	9228768	27.987	ppbv	96
75)	4-Isopropyltoluene	12.926	119	7861160	24.978	ppbv	97
76)	1,2-Dichlorobenzene	13.059	146	3482647	22.990	ppbv	98
77)	n-Butylbenzene	13.192	91	6037391	24.774	ppbv	98
78)	1,2,4-Trichlorobenzene	14.239	180	2459629	26.011	ppbv	93
80)	Hexachlorobutadiene	14.568	225	3503890	27.525	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.391	85	4996200	20.513	ppbv	99
83)	Vinyl Chloride(sim)	4.504	62	1764281	22.056	ppbv	100
84)	Bromomethane(sim)	4.865	94	1771838	20.195	ppbv	94
85)	Trichlorofluoromethane...	5.593	101	7072845	25.521	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.059	62	1300518	20.325	ppbv	90
87)	1,1,1-Trichloroethane(...	8.221	97	2255636	26.619	ppbv#	98
88)	Benzene(sim)	8.501	78	2785511	22.026	ppbv	97
89)	Carbon Tetrachloride(sim)	8.598	117	2418758	31.636	ppbv	99
90)	1,1-Dichloroethene(sim)	6.046	61	3476256	22.995	ppbv	92
91)	Trichlorotrifluoroetha...	6.293	101	5250786	27.695	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.744	61	1296088	20.882	ppbv	97
93)	1,1-Dichloroethane(sim)	6.884	63	1821158	23.830	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.413	61	1328556	20.610	ppbv	91
95)	Chloroform(sim)	7.596	83	2185071	24.588	ppbv	98
97)	1,2-dichloropropane(sim)	8.971	63	1326451	24.566	ppbv	94
98)	Bromodichloromethane(sim)	9.090	83	2592430	36.492	ppbv	99
99)	Trichloroethene(sim)	9.107	130	2166935	31.910	ppbv	98
100)	1,4-Dioxane(sim)	9.101	88	794632	28.411	ppbv	97
101)	cis-1,3-Dichloropropen...	9.587	75	1843793	30.695	ppbv	98
102)	1,1,2-Trichloroethane(...	9.989	97	1217085	26.303	ppbv	96
103)	Dibromochloromethane(sim)	10.402	129	3124529	40.292	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.542	107	2180992	28.511	ppbv	96
105)	Tetrachloroethene(sim)	10.781	166	2519272	27.167	ppbv	99
107)	Bromoform(sim)	11.526	173	3396789	34.509	ppbv	99
108)	m,p-Xylene(sim)	11.439	91	8279439	41.328	ppbv	96
109)	1,1,2,2-Tetrachloroeth...	11.701	83	3934522	23.111	ppbv	99
112)	Benzyl chloride(sim)	12.782	91	3836975	42.439	ppbv	96
113)	1,3-Dichlorobenzene(sim)	12.798	146	4478559	24.067	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.833	146	4790461	30.057	ppbv	96
115)	sec-Butylbenzene(sim)	12.839	105	9622442	27.696	ppbv	97
116)	4-Isopropyltoluene(sim)	12.926	119	7862819	24.261	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_15.D
Acq On : 2 Mar 2023 8:59 pm
Operator :
Client ID : ICAL 25
Lab ID : 25 ppbV ; AirT01501Z
ALS Vial : 10 Sample Multiplier: 1

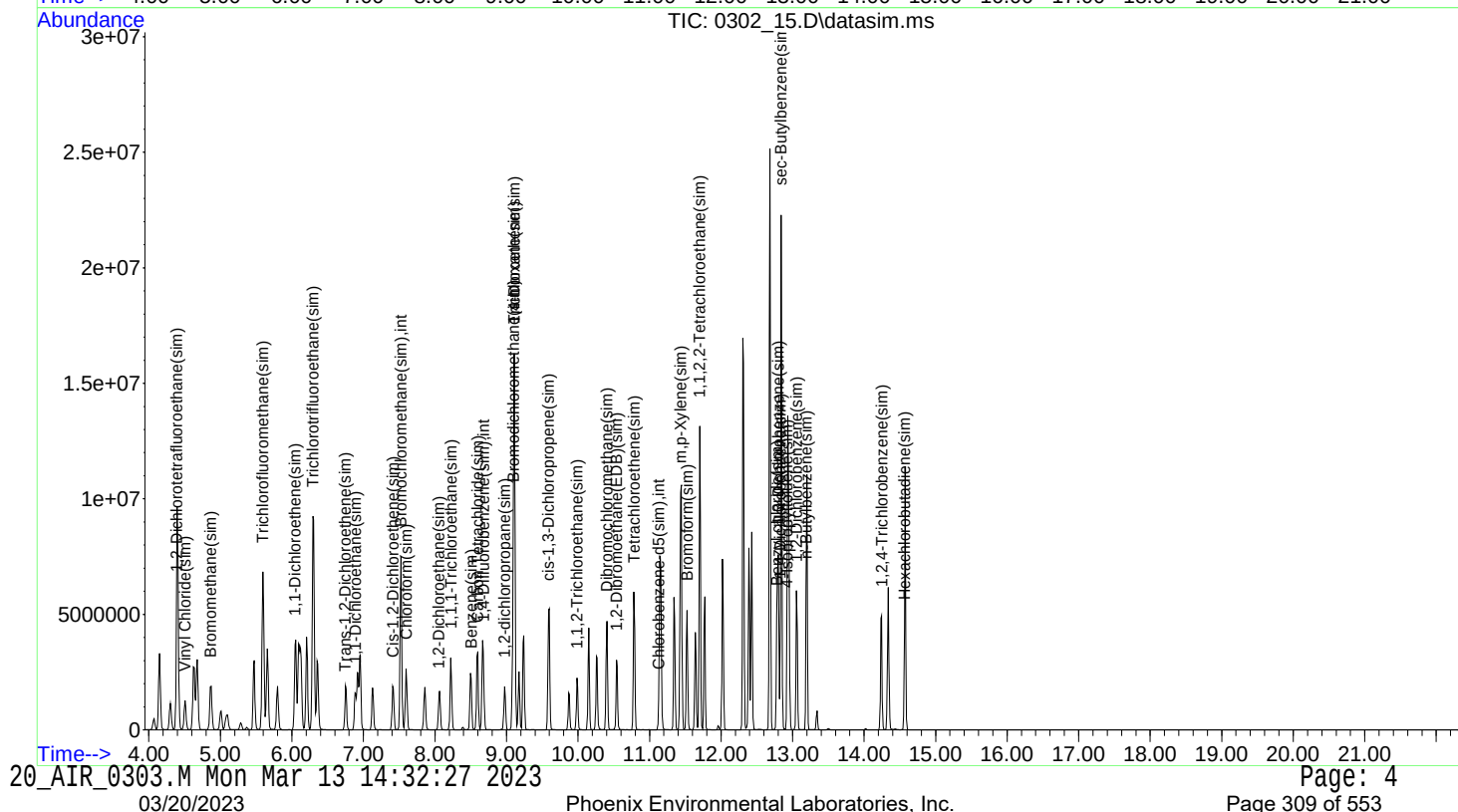
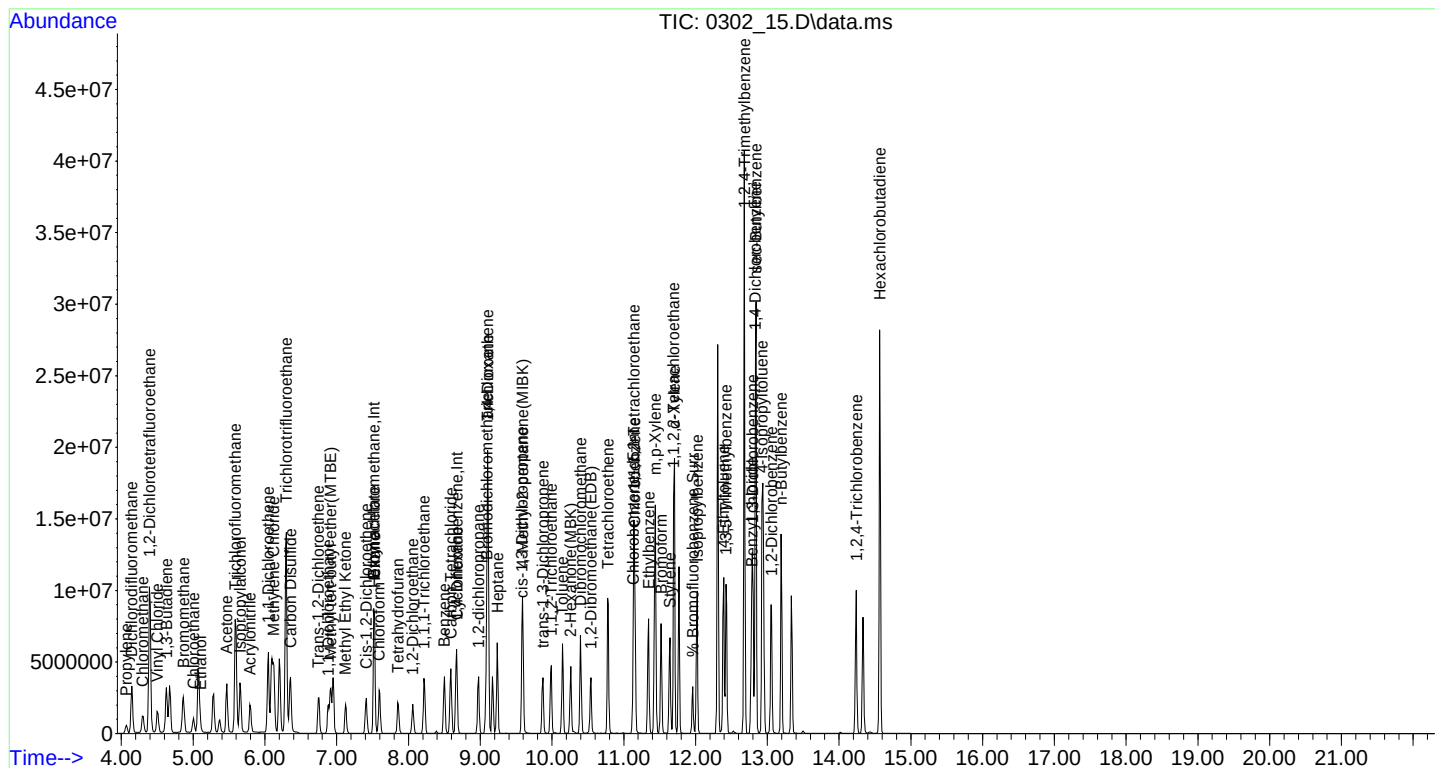
Quant Time: Mar 03 11:50:11 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:49:39 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	4047241	21.913	ppbv	100
118]	n-Butylbenzene(sim)	13.192	91	6037391	23.649	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.245	180	3080760	30.130	ppbv	98

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

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Data Path : H:\AIR2023\CHEM20\03MAR\02\  
Data File : 0302_15.D  
Acq On : 2 Mar 2023 8:59 pm  
Operator :  
Client ID : ICAL 25  
Lab ID : 25 ppbV ; AirT01501Z  
ALS Vial : 10 Sample Multiplier: 1
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Quant Time: Mar 03 11:50:11 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 10:49:39 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_17.D
 Acq On : 2 Mar 2023 10:05 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppbV ; AirT01502B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 03 13:06:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	360339	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1384005	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	608476	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	427771	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1383865	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	608476	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 758415 11.418 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 114.20%

Target Compounds						Qvalue
2) Propylene	4.078	41	36418	1.130	ppbv	98
3) Dichlorodifluoromethane	4.154	85	139191	1.100	ppbv	96
4) Chloromethane	4.305	50	70480	1.111	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.391	85	191373	0.961	ppbv	95
6) Vinyl Chloride	4.499	62	75456	1.069	ppbv	100
7) 1,3-Butadiene	4.628	54	55815	0.941	ppbv#	77
8) Bromomethane	4.865	94	71852	1.000	ppbv	90
9) Chloroethane	5.005	64	35218	1.251	ppbv	88
11) Ethanol	5.124	45	29930	1.190	ppbv#	70
12) Acetone	5.490	43	161360	1.000	ppbv	99
13) Trichlorofluoromethane	5.587	101	253266	1.000	ppbv#	98
14) Isopropylalcohol	5.684	45	183856	1.069	ppbv#	99
15) Acrylonitrile	5.803	53	67400	1.056	ppbv#	91
16) 1,1-Dichloroethene	6.046	61	143642	1.036	ppbv	96
17) Methylene Chloride	6.124	49	111191	0.979	ppbv	99
20) Carbon Disulfide	6.357	76	202314	1.100	ppbv#	93
21) Trichlorotrifluoroethane	6.296	101	184459	1.062	ppbv	94
22) Trans-1,2-Dichloroethene	6.744	61	53676	1.029	ppbv	93
23) 1,1-Dichloroethane	6.878	63	70324	1.014	ppbv	98
24) Methyl tert-butyl ethe...	6.941	73	90635	1.001	ppbv	96
26) Methyl Ethyl Ketone	7.146	43	96411	0.998	ppbv	98
27) Cis-1,2-Dichloroethene	7.403	61	46808	0.871	ppbv	90
28) Hexane	7.528	57	64689	0.994	ppbv	89
29) Chloroform	7.590	83	74501	0.992	ppbv	96
30) Ethyl acetate	7.538	61	17467	1.012	ppbv#	84
31) Tetrahydrofuran	7.872	42	54971	0.948	ppbv	97
32) 1,2-Dichloroethane	8.059	62	55259	1.022	ppbv#	87
33) 1,1,1-Trichloroethane	8.215	97	70302	0.917	ppbv	97
34) Benzene	8.501	78	103858	0.962	ppbv#	95
35) Carbon Tetrachloride	8.592	117	73584	1.044	ppbv	94
36) Cyclohexane	8.660	84	42071	0.970	ppbv#	79
38) 1,2-dichloropropane	8.977	63	45760	0.889	ppbv#	86
39) Bromodichloromethane	9.090	83	77944	0.911	ppbv	99
40) Trichloroethene	9.101	130	50706	0.810	ppbv#	89
42) 1,4-Dioxane	9.135	88	30313	1.046	ppbv#	78
44) Heptane	9.237	43	88191	0.999	ppbv	97
45) cis-1,3-Dichloropropene	9.591	75	63783	1.010	ppbv	94
46) 4-Methyl-2-pentanone(M...	9.611	43	127279	0.944	ppbv	97
47) trans-1,3-Dichloropropene	9.873	75	50745	0.902	ppbv	94
48) 1,1,2-Trichloroethane	9.989	97	43631	0.900	ppbv	84
49) Toluene	10.144	91	134653	0.972	ppbv	92
50) Dibromochloromethane	10.397	129	79913	0.952	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_17.D
 Acq On : 2 Mar 2023 10:05 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppbv ; AirT01502B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 03 13:06:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.271	43	114102	0.974	ppbv	98
52)	1,2-Dibromoethane(EDB)	10.542	107	78844	0.973	ppbv	89
53)	Tetrachloroethene	10.785	166	68072	0.963	ppbv	94
55)	1,1,1,2-Tetrachloroethane	11.141	131	61637	1.134	ppbv	94
56)	Chlorobenzene	11.152	112	110407	1.122	ppbv	92
57)	Ethylbenzene	11.346	91	172803	1.106	ppbv	98
58)	m,p-Xylene	11.439	91	259474	2.184	ppbv	99
59)	Bromoform	11.521	173	66630	1.028	ppbv	96
60)	Styrene	11.644	104	107215	1.164	ppbv#	93
61)	1,1,2,2-Tetrachloroethane	11.695	83	117120	1.106	ppbv	93
62)	o-Xylene	11.705	91	136171	1.042	ppbv	96
65)	Isopropylbenzene	12.023	105	176429	1.078	ppbv	95
67)	4-Ethyltoluene	12.392	105	171820	0.937	ppbv	93
68)	1,3,5-Trimethylbenzene	12.423	105	148829	1.123	ppbv	100
69)	1,2,4-Trimethylbenzene	12.679	105	166443	1.044	ppbv	95
71)	Benzyl chloride	12.782	91	86101	0.986	ppbv#	95
72)	1,3-Dichlorobenzene	12.792	146	114678	1.024	ppbv	97
73)	1,4-Dichlorobenzene	12.833	146	117273	1.024	ppbv	95
74)	sec-Butylbenzene	12.844	105	235714	1.047	ppbv	99
75)	4-Isopropyltoluene	12.926	119	228835	1.065	ppbv	99
76)	1,2-Dichlorobenzene	13.049	146	112589	1.089	ppbv	95
77)	n-Butylbenzene	13.192	91	187424	1.127	ppbv	97
78)	1,2,4-Trichlorobenzene	14.239	180	84531	1.310	ppbv	95
80)	Hexachlorobutadiene	14.568	225	87809	1.011	ppbv	93
82)	1,2-Dichlorotetrafluor...	4.391	85	191931	0.866	ppbv	96
83)	Vinyl Chloride(sim)	4.504	62	73805	1.013	ppbv	98
84)	Bromomethane(sim)	4.865	94	71852	0.900	ppbv	90
85)	Trichlorofluoromethane...	5.593	101	278994	1.106	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.059	62	55259	0.949	ppbv#	87
87)	1,1,1-Trichloroethane(...	8.221	97	81252	1.053	ppbv#	98
88)	Benzene(sim)	8.501	78	103858	0.902	ppbv#	95
89)	Carbon Tetrachloride(sim)	8.586	117	80525	1.157	ppbv	99
90)	1,1-Dichloroethene(sim)	6.046	61	143642	1.044	ppbv	95
91)	Trichlorotrifluoroetha...	6.293	101	200264	1.160	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.744	61	53676	0.950	ppbv	93
93)	1,1-Dichloroethane(sim)	6.884	63	69727	1.002	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.403	61	46808	0.798	ppbv#	89
95)	Chloroform(sim)	7.596	83	82790	1.023	ppbv	98
97)	1,2-dichloropropane(sim)	8.971	63	51242	0.962	ppbv	96
98)	Bromodichloromethane(sim)	9.090	83	76929	1.098	ppbv	97
99)	Trichloroethene(sim)	9.107	130	65219	0.974	ppbv	98
100)	1,4-Dioxane(sim)	9.135	88	30313	1.099	ppbv#	82
101)	cis-1,3-Dichloropropen...	9.587	75	62038	1.047	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	43631	0.956	ppbv	83
103)	Dibromochloromethane(sim)	10.402	129	93431	1.222	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.542	107	78133	1.036	ppbv	88
105)	Tetrachloroethene(sim)	10.781	166	87458	0.956	ppbv	98
107)	Bromoform(sim)	11.526	173	88183	1.313	ppbv	99
108)	m,p-Xylene(sim)	11.439	91	264393	1.934	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.701	83	121670	1.047	ppbv	99
112)	Benzyl chloride(sim)	12.782	91	84778	1.374	ppbv	95
113)	1,3-Dichlorobenzene(sim)	12.798	146	144037	1.134	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.833	146	117273	1.078	ppbv	95
115)	sec-Butylbenzene(sim)	12.839	105	248322	1.047	ppbv	99
116)	4-Isopropyltoluene(sim)	12.926	119	228835	1.035	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_17.D
Acq On : 2 Mar 2023 10:05 pm
Operator :
Client ID : ICAL 1
Lab ID : 1.0 ppbV ; AirT01502B
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 03 13:06:46 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration

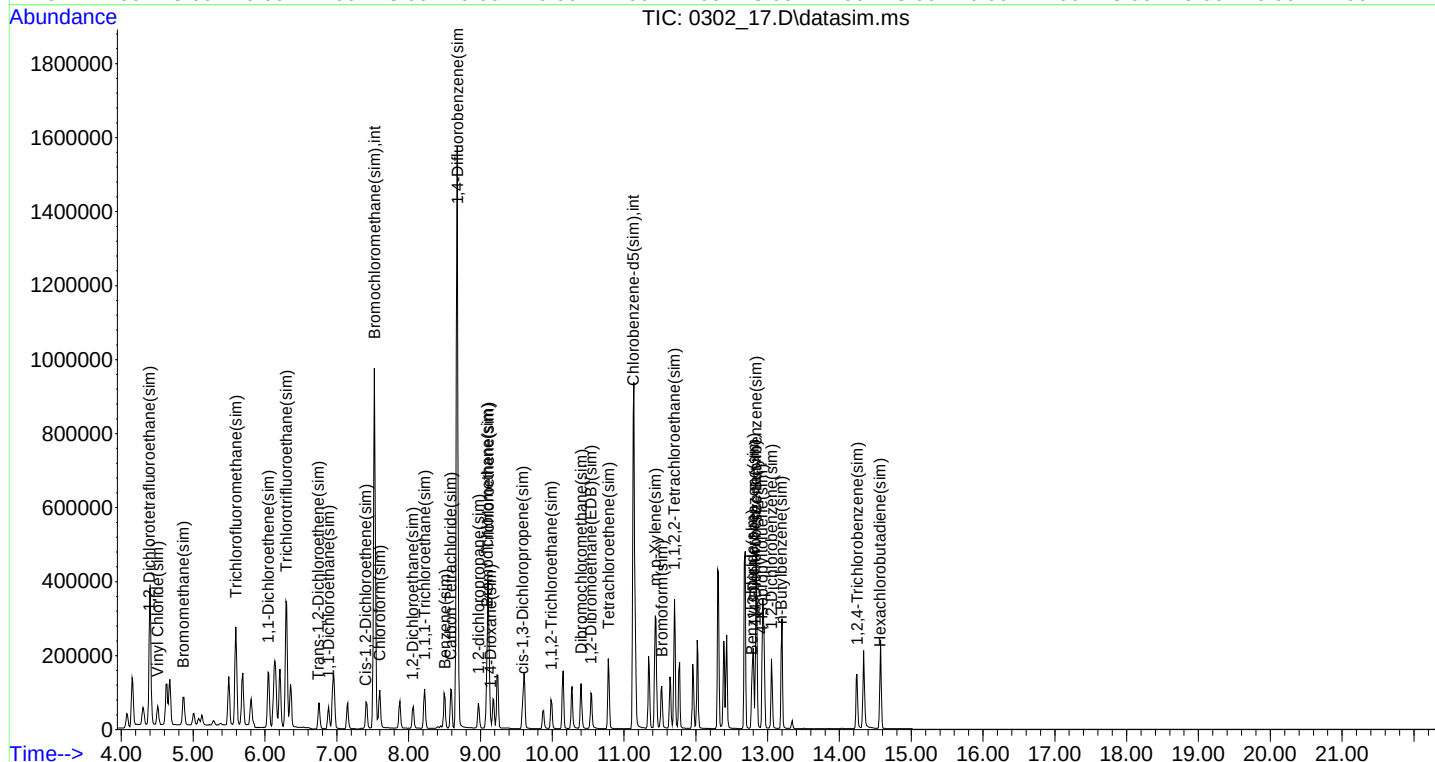
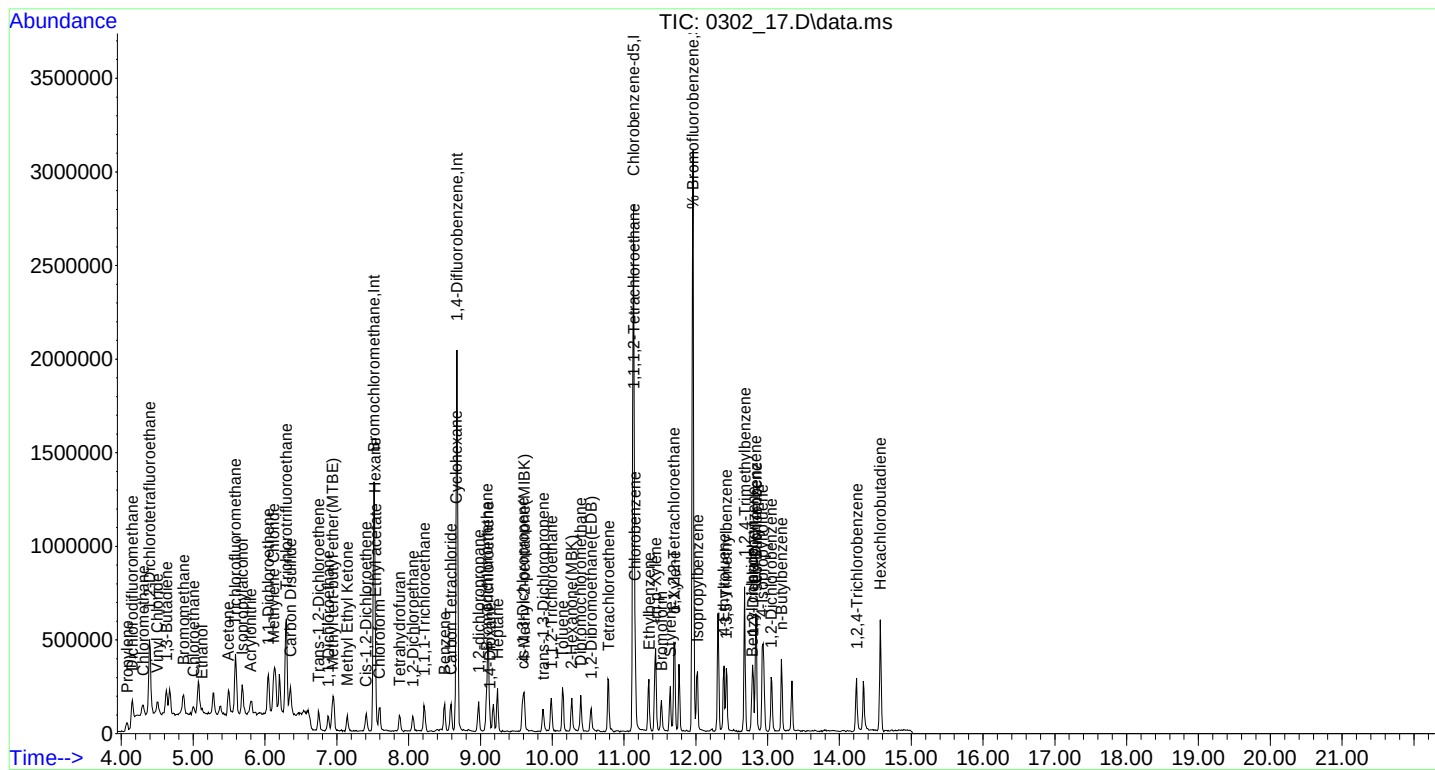
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	140009	1.111	ppbv	99
118]	n-Butylbenzene(sim)	13.192	91	187424	1.076	ppbv	96
119]	1,2,4-Trichlorobenzene...	14.245	180	104234	1.494	ppbv	98
120]	Hexachlorobutadiene(sim)	14.568	225	88167	1.033	ppbv	93

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_17.D
 Acq On : 2 Mar 2023 10:05 pm
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 ppbV ; AirT01502B
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 03 13:06:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_18.D
 Acq On : 2 Mar 2023 10:36 pm
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppbV ; AirT01501Z
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 13:07:18 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.517	130	356668	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1413725	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	686148	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	437905	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1413725	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	685998	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 11.961 95 803612 10.729 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 107.30%

Target Compounds						Qvalue
2) Propylene	4.067	41	270536	8.478	ppbv	94
3) Dichlorodifluoromethane	4.143	85	1238579	9.888	ppbv	98
4) Chloromethane	4.293	50	619223	9.865	ppbv	97
5) 1,2-Dichlorotetrafluor...	4.391	85	2013354	10.216	ppbv	98
6) Vinyl Chloride	4.498	62	684533	9.797	ppbv	94
7) 1,3-Butadiene	4.628	54	558626	9.517	ppbv	98
8) Bromomethane	4.854	94	723690	10.172	ppbv	95
9) Chloroethane	4.994	64	316291	11.351	ppbv	95
11) Ethanol	5.102	45	244504	9.821	ppbv	97
12) Acetone	5.479	43	1546013	9.680	ppbv	95
13) Trichlorofluoromethane	5.587	101	2599840	10.370	ppbv	98
14) Isopropylalcohol	5.662	45	1706839	10.023	ppbv	96
15) Acrylonitrile	5.792	53	575954	9.119	ppbv	93
16) 1,1-Dichloroethene	6.046	61	1411809	10.286	ppbv	93
17) Methylene Chloride	6.115	49	1115730	9.920	ppbv	97
20) Carbon Disulfide	6.348	76	1956387	10.746	ppbv	100
21) Trichlorotrifluoroethane	6.287	101	1864453	10.844	ppbv	97
22) Trans-1,2-Dichloroethene	6.744	61	532152	10.306	ppbv	99
23) 1,1-Dichloroethane	6.878	63	675057	9.831	ppbv	97
24) Methyl tert-butyl ethe...	6.917	73	899938	10.042	ppbv	98
26) Methyl Ethyl Ketone	7.130	43	953530	9.972	ppbv	96
27) Cis-1,2-Dichloroethene	7.403	61	514365	9.667	ppbv	89
28) Hexane	7.528	57	656507	10.195	ppbv	91
29) Chloroform	7.590	83	772582	10.391	ppbv	98
30) Ethyl acetate	7.517	61	159960	9.361	ppbv	87
31) Tetrahydrofuran	7.861	42	551463	9.604	ppbv	95
32) 1,2-Dichloroethane	8.059	62	518112	9.685	ppbv	91
33) 1,1,1-Trichloroethane	8.215	97	876536	11.551	ppbv	91
34) Benzene	8.501	78	1072125	10.038	ppbv	97
35) Carbon Tetrachloride	8.592	117	760934	10.908	ppbv	98
36) Cyclohexane	8.660	84	439944	10.247	ppbv	98
38) 1,2-dichloropropane	8.977	63	483084	9.186	ppbv	94
39) Bromodichloromethane	9.078	83	857458	9.807	ppbv	98
40) Trichloroethene	9.101	130	596274	9.322	ppbv	98
42) 1,4-Dioxane	9.112	88	246979	8.347	ppbv	97
44) Heptane	9.237	43	847407	9.393	ppbv	95
45) cis-1,3-Dichloropropene	9.581	75	634189	9.831	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.601	43	1317436	9.571	ppbv#	96
47) trans-1,3-Dichloropropene	9.873	75	591735	10.293	ppbv	98
48) 1,1,2-Trichloroethane	9.989	97	467515	9.444	ppbv	99
49) Toluene	10.144	91	1385183	9.787	ppbv	98
50) Dibromochloromethane	10.397	129	917820	10.706	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_18.D
 Acq On : 2 Mar 2023 10:36 pm
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppbV ; AirT01501Z
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 13:07:18 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.261	43	1205867	10.080	ppbv#	96
52)	1,2-Dibromoethane(EDB)	10.542	107	826806	9.986	ppbv	97
53)	Tetrachloroethene	10.775	166	690756	9.569	ppbv	97
55)	1,1,1,2-Tetrachloroethane	11.141	131	671017	10.950	ppbv	97
56)	Chlorobenzene	11.152	112	1143192	10.304	ppbv	96
57)	Ethylbenzene	11.346	91	1762553	10.002	ppbv	100
58)	m,p-Xylene	11.438	91	2766570	20.646	ppbv	97
59)	Bromoform	11.520	173	852836	11.672	ppbv	99
60)	Styrene	11.633	104	1032115	9.938	ppbv	93
61)	1,1,2,2-Tetrachloroethane	11.695	83	1209900	10.136	ppbv	97
62)	o-Xylene	11.705	91	1445178	9.811	ppbv	100
65)	Isopropylbenzene	12.023	105	1871016	10.140	ppbv	99
67)	4-Ethyltoluene	12.392	105	2239575	10.836	ppbv	97
68)	1,3,5-Trimethylbenzene	12.423	105	1433017	9.585	ppbv	91
69)	1,2,4-Trimethylbenzene	12.679	105	1894615	10.542	ppbv	97
71)	Benzyl chloride	12.782	91	1239689	12.585	ppbv	97
72)	1,3-Dichlorobenzene	12.792	146	1294013	10.248	ppbv	97
73)	1,4-Dichlorobenzene	12.833	146	1344672	10.413	ppbv	94
74)	sec-Butylbenzene	12.843	105	2620819	10.328	ppbv	98
75)	4-Isopropyltoluene	12.925	119	2470972	10.202	ppbv	98
76)	1,2-Dichlorobenzene	13.049	146	1230995	10.559	ppbv	99
77)	n-Butylbenzene	13.192	91	2057099	10.969	ppbv	99
78)	1,2,4-Trichlorobenzene	14.239	180	786443	10.807	ppbv	93
80)	Hexachlorobutadiene	14.567	225	920435	9.396	ppbv	96
82)	1,2-Dichlorotetrafluor...	4.391	85	2011317	8.861	ppbv	97
83)	Vinyl Chloride(sim)	4.504	62	723149	9.700	ppbv	99
84)	Bromomethane(sim)	4.854	94	723690	8.851	ppbv	95
85)	Trichlorofluoromethane...	5.592	101	2787719	10.793	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.059	62	518112	8.688	ppbv	91
87)	1,1,1-Trichloroethane(...	8.221	97	840391	10.642	ppbv#	99
88)	Benzene(sim)	8.501	78	1073335	9.107	ppbv	97
89)	Carbon Tetrachloride(sim)	8.586	117	870628	12.219	ppbv	99
90)	1,1-Dichloroethene(sim)	6.046	61	1411809	10.021	ppbv	92
91)	Trichlorotrifluoroetha...	6.293	101	2021597	11.441	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.744	61	532152	9.200	ppbv	99
93)	1,1-Dichloroethane(sim)	6.883	63	711152	9.985	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.403	61	514365	8.562	ppbv	90
95)	Chloroform(sim)	7.596	83	832759	10.055	ppbv	98
97)	1,2-dichloropropane(sim)	8.971	63	524092	9.634	ppbv	95
98)	Bromodichloromethane(sim)	9.078	83	858910	12.001	ppbv	98
99)	Trichloroethene(sim)	9.107	130	695384	10.164	ppbv	99
100)	1,4-Dioxane(sim)	9.112	88	246979	8.765	ppbv	95
101)	cis-1,3-Dichloropropen...	9.587	75	661048	10.923	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	467740	10.034	ppbv	98
103)	Dibromochloromethane(sim)	10.402	129	1100159	14.082	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.542	107	824007	10.692	ppbv	97
105)	Tetrachloroethene(sim)	10.781	166	909525	9.735	ppbv	99
107)	Bromoform(sim)	11.526	173	1106477	14.610	ppbv	100
108)	m,p-Xylene(sim)	11.438	91	2788550	18.091	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.700	83	1291718	9.862	ppbv	99
112)	Benzyl chloride(sim)	12.782	91	1239689	17.821	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.798	146	1559530	10.893	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.833	146	1344672	10.965	ppbv	94
115)	sec-Butylbenzene(sim)	12.839	105	2776239	10.386	ppbv	99
116)	4-Isopropyltoluene(sim)	12.925	119	2471931	9.913	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
Data File : 0302_18.D
Acq On : 2 Mar 2023 10:36 pm
Operator :
Client ID : ICAL 10
Lab ID : 10 ppbV ; AirT01501Z
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 13:07:18 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration

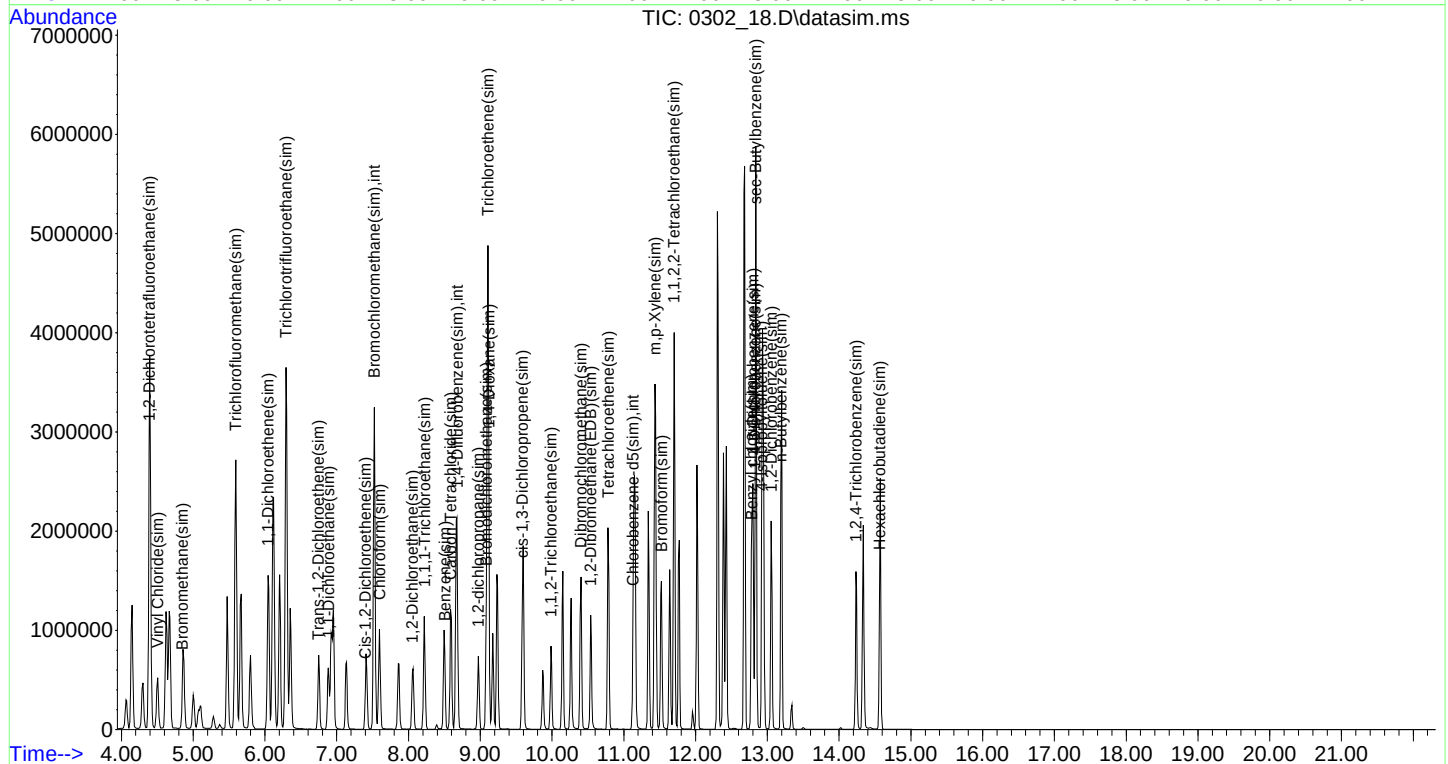
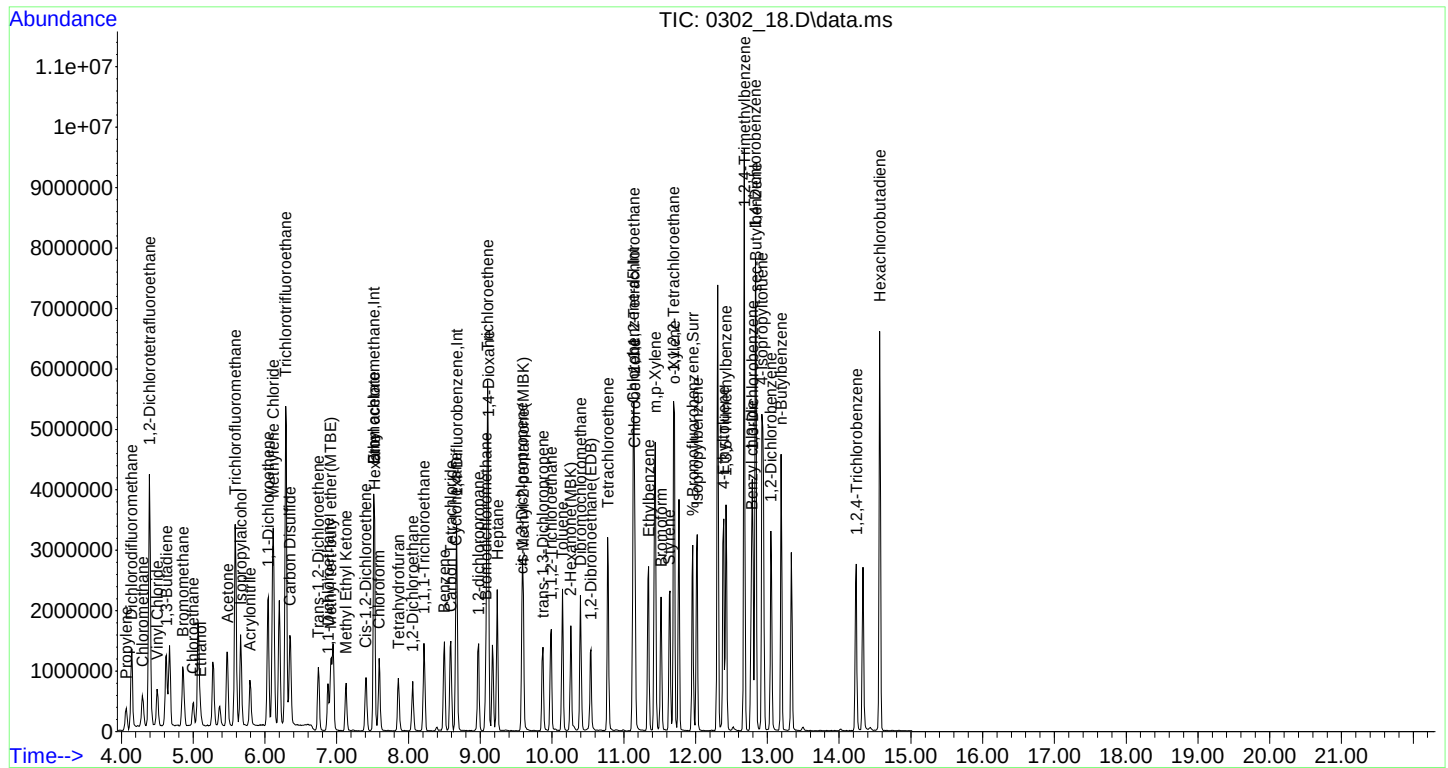
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	1449268	10.199	ppbv	99
118]	n-Butylbenzene(sim)	13.192	91	2057099	10.473	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.234	180	993741	12.632	ppbv	99
120]	Hexachlorobutadiene(sim)	14.567	225	920130	14.460	ppbv	96

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\02\
 Data File : 0302_18.D
 Acq On : 2 Mar 2023 10:36 pm
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ppbV ; AirT01501Z
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 13:07:18 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration



6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs
Lab Code: Phoenix
Instrument ID: CHEM39
Heated Purge (Y/N): Y
GC Column: RTX-1 ; #10157

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 20:05
Calibration Date Thru: 03/03/23 01:32
Method File: 39_AIR_0303.M

Laboratory File Ids

RRF1	<u>0302_02.D</u>	RRF2	<u>0302_03.D</u>	RRF3	<u>0302_04.D</u>	RRF4	<u>0302_05.D</u>	RRF5	<u>0302_06.D</u>	RRF6	<u>0302_07.D</u>				
RRF7	<u>0302_08.D</u>	RRF8	<u>0302_13.D</u>	RRF9	<u>0302_09.D</u>	RRF10	<u>0302_10.D</u>	RRF11	<u>0302_14.D</u>	RRF12	<u>0302_11.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	
Propylene						0.535	0.487	0.503	0.459	0.473	0.462	0.461	0.480	5.57	
Dichlorodifluoromethane						2.410	2.275	2.344	2.300	2.471	2.402	2.358	2.361	2.72	
Chloromethane						0.705	0.572	0.586	0.543	0.567	0.531	0.534	0.573	9.94	
1,2-Dichlorotetrafluoroethane						2.477	2.362	2.517	2.376	2.462	2.396	2.356	2.414	2.59	
Vinyl Chloride						0.803	0.746	0.765	0.741	0.759	0.741	0.737	0.756	2.82	
1,3-Butadiene						0.513	0.509	0.544	0.510	0.510	0.503	0.504	0.513	2.53	
Bromomethane						1.042	0.931	0.980	0.920	0.949	0.942	0.916	0.951	4.45	
Chloroethane						0.398	0.356	0.346	0.337	0.350	0.334	0.336	0.349	6.06	
Ethanol							0.173	0.215	0.181	0.173	0.177	0.162	0.177	10.66	
Acetone								0.974	0.892	0.925	0.887	0.879	0.907	4.07	
Trichlorofluoromethane						2.507	2.451	2.548	2.451	2.596	2.543	2.492	2.506	2.10	
Isopropylalcohol							0.925	1.164	1.064	1.084	1.127	1.051	1.062	7.26	
Acrylonitrile						0.589	0.498	0.497	0.476	0.478	0.475	0.472	0.495	7.89	
1,1-Dichloroethene						1.214	1.208	1.200	1.163	1.239	1.214	1.182	1.199	2.08	
Methylene Chloride						0.874	0.742	0.725	0.692	0.731	0.703	0.691	0.731	8.31	
Carbon Disulfide						2.560	2.421	2.433	2.362	2.479	2.411	2.384	2.431	2.56	
Trichlorotrifluoroethane						2.150	2.120	2.143	2.101	2.197	2.131	2.080	2.123	2.02	
Trans-1,2-Dichloroethene						1.183	1.106	1.162	1.129	1.183	1.166	1.150	1.153	2.31	
1,1-Dichloroethane						1.444	1.392	1.442	1.396	1.483	1.433	1.411	1.425	2.22	
Methyl tert-butyl ether(MTBE)						2.384	2.252	2.296	2.228	2.348	2.274	2.263	2.288	2.33	
Methyl Ethyl Ketone						1.355	1.233	1.283	1.212	1.219	1.180	1.213	1.237	4.56	
Cis-1,2-Dichloroethene						1.136	1.073	1.111	1.049	1.115	1.101	1.087	1.095	2.45	
Hexane						1.088	1.130	1.153	1.124	1.197	1.157	1.139	1.139	2.79	
Chloroform						2.059	1.957	1.991	1.899	2.021	1.963	1.940	1.970	2.63	
Ethyl acetate						0.352	0.344	0.376	0.341	0.357	0.339	0.336	0.347	4.18	

(#) 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: CHEM39
Heated Purge (Y/N): Y
GC Column: RTX-1 ; #10157

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 20:05
Calibration Date Thru: 03/03/23 01:32
Method File: 39_AIR_0303.M

Laboratory File Ids

RRF1	<u>0302_02.D</u>	RRF2	<u>0302_03.D</u>	RRF3	<u>0302_04.D</u>	RRF4	<u>0302_05.D</u>	RRF5	<u>0302_06.D</u>	RRF6	<u>0302_07.D</u>				
RRF7	<u>0302_08.D</u>	RRF8	<u>0302_13.D</u>	RRF9	<u>0302_09.D</u>	RRF10	<u>0302_10.D</u>	RRF11	<u>0302_14.D</u>	RRF12	<u>0302_11.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
Tetrahydrofuran							0.763	0.697	0.697	0.704	0.739	0.716	0.709	0.716	3.24
1,2-Dichloroethane							1.040	0.993	1.028	1.002	1.065	1.048	1.033	1.029	2.27
1,1,1-Trichloroethane							1.956	1.934	2.000	1.975	2.080	2.026	2.005	1.998	2.23
Benzene							2.981	2.890	2.917	2.875	3.007	2.891	2.901	2.916	1.75
Carbon Tetrachloride							2.332	2.192	2.359	2.272	2.403	2.346	2.320	2.315	2.75
Cyclohexane							1.413	1.118	1.141	1.114	1.142	1.133	1.113	1.162	8.80
1,2-dichloropropane							0.290	0.270	0.274	0.264	0.273	0.266	0.263	0.270	3.38
Bromodichloromethane							0.586	0.540	0.549	0.536	0.564	0.546	0.532	0.548	3.36
Trichloroethene							0.430	0.439	0.458	0.444	0.458	0.448	0.436	0.444	2.27
1,4-Dioxane							0.159	0.146	0.186	0.176	0.177	0.185	0.173	0.170	8.16
Heptane							0.367	0.322	0.321	0.314	0.329	0.322	0.316	0.325	5.50
cis-1,3-Dichloropropene							0.405	0.412	0.424	0.415	0.439	0.435	0.429	0.423	2.75
4-Methyl-2-pentanone(MIBK)							0.399	0.394	0.417	0.414	0.420	0.410	0.400	0.406	2.63
trans-1,3-Dichloropropene							0.380	0.375	0.382	0.371	0.398	0.396	0.395	0.387	2.95
1,1,2-Trichloroethane							0.362	0.340	0.362	0.345	0.360	0.355	0.349	0.353	2.40
Toluene							1.060	1.010	1.043	1.013	1.071	1.046	1.029	1.038	2.05
Dibromochloromethane							0.761	0.734	0.745	0.747	0.793	0.777	0.768	0.762	2.52
2-Hexanone(MBK)							0.388	0.346	0.407	0.384	0.404	0.398	0.398	0.390	4.97
1,2-Dibromoethane(EDB)							0.607	0.582	0.593	0.591	0.622	0.609	0.600	0.601	2.06
Tetrachloroethene							0.648	0.670	0.687	0.669	0.702	0.681	0.675	0.676	2.33
1,1,1,2-Tetrachloroethane							1.223	1.189	1.222	1.195	1.218	1.159	1.084	1.167	5.74
Chlorobenzene							2.198	2.152	2.192	2.128	2.220	2.106	1.952	2.101	6.09
Ethylbenzene						3.050	3.091	2.992	3.097	3.039	3.202	3.066	2.880	3.017	4.53
m,p-Xylene						2.424	2.421	2.366	1.981	2.464	2.576	2.444	2.276	2.342	7.89
Bromoform							2.258	2.197	2.308	2.257	2.351	2.266	2.127	2.225	4.54

(#) 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: CHEM39
Heated Purge (Y/N): Y
GC Column: RTX-1 ; #10157

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 20:05
Calibration Date Thru: 03/03/23 01:32
Method File: 39_AIR_0303.M

Laboratory File Ids

RRF1	0302_02.D	RRF2	0302_03.D	RRF3	0302_04.D	RRF4	0302_05.D	RRF5	0302_06.D	RRF6	0302_07.D				
RRF7	0302_08.D	RRF8	0302_13.D	RRF9	0302_09.D	RRF10	0302_10.D	RRF11	0302_14.D	RRF12	0302_11.D				
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							1.814	1.825	1.952	1.965	2.053	1.992	1.890	1.913	4.76
1,1,2,2-Tetrachloroethane							1.888	1.898	1.920	1.837	1.907	1.800	1.656	1.809	7.27
o-Xylene						2.408	2.311	2.443	2.507	2.523	2.623	2.474	2.292	2.419	5.59
Isopropylbenzene							3.532	3.550	3.658	3.635	3.729	3.576	3.311	3.516	5.62
4-Ethyltoluene							3.739	3.779	3.973	3.961	4.185	3.892	3.674	3.829	5.95
1,3,5-Trimethylbenzene							2.869	2.872	3.070	3.101	3.153	3.061	2.850	2.965	4.98
1,2,4-Trimethylbenzene							2.992	3.100	3.308	3.292	3.381	3.237	3.046	3.152	5.72
Benzyl chloride							2.410	2.380	2.551	2.548	2.674	2.584	2.505	2.508	4.05
1,3-Dichlorobenzene							2.791	2.787	2.895	2.815	2.887	2.711	2.553	2.729	6.34
1,4-Dichlorobenzene							2.440	2.383	2.648	2.533	2.590	2.526	2.371	2.470	5.10
sec-Butylbenzene							4.251	4.425	4.598	4.644	4.812	4.567	4.251	4.432	6.45
4-Isopropyltoluene							4.035	4.229	4.515	4.495	4.700	4.510	4.177	4.319	6.45
1,2-Dichlorobenzene							2.662	2.530	2.684	2.570	2.637	2.559	2.413	2.545	5.08
n-Butylbenzene							3.338	3.308	3.602	3.568	3.735	3.608	3.375	3.462	5.63
1,2,4-Trichlorobenzene							2.479	2.537	2.966	2.606	2.351	2.424	2.328	2.490	9.09
Hexachlorobutadiene							2.770	2.690	2.914	2.647	2.404	2.422	2.298	2.543	9.77
1,2-Dichlorotetrafluoroethane(sim)		3.367	3.216	3.159	2.736	2.563	2.635	2.527	2.674	2.543	2.631			2.805	11.25
Vinyl Chloride(sim)		1.096	1.054	1.000	0.940	0.882	0.839	0.802	0.849	0.807	0.843			0.911	11.61
Bromomethane(sim)		1.379	1.439	1.179	1.119	0.986	1.109	0.996	1.042	0.985	1.014			1.125	14.56
Trichlorofluoromethane(sim)		3.184	3.133	2.927	2.876	2.573	2.661	2.595	2.696	2.636	2.773			2.806	7.81
1,2-Dichloroethane(sim)		1.440	1.333	1.336	1.167	1.167	1.107	1.063	1.093	1.073	1.138			1.192	11.00
1,1,1-Trichloroethane(sim)		2.619	2.639	2.378	2.309	2.189	2.145	2.106	2.198	2.201	2.314			2.310	8.11
Benzene(sim)						3.629	3.171	3.092	3.102	3.078				3.215	7.30
Carbon Tetrachloride(sim)		2.894	2.844	2.615	2.504	2.387	2.355	2.298	2.368	2.345				2.512	8.92
1,1-Dichloroethene(sim)		1.721	1.782	1.661	1.471	1.360	1.291	1.292	1.276	1.246	1.325			1.443	14.13

(#) 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, fi2, 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: CHEM39
Heated Purge (Y/N): Y
GC Column: RTX-1 ; #10157

Client: FPMGROUP
SDG No.: GCN54079
Calibration Date From: 03/02/23 20:05
Calibration Date Thru: 03/03/23 01:32
Method File: 39_AIR_0303.M

Laboratory File Ids

RRF1	<u>0302_02.D</u>	RRF2	<u>0302_03.D</u>	RRF3	<u>0302_04.D</u>	RRF4	<u>0302_05.D</u>	RRF5	<u>0302_06.D</u>	RRF6	<u>0302_07.D</u>				
RRF7	<u>0302_08.D</u>	RRF8	<u>0302_13.D</u>	RRF9	<u>0302_09.D</u>	RRF10	<u>0302_10.D</u>	RRF11	<u>0302_14.D</u>	RRF12	<u>0302_11.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)	2.848	2.815	2.564	2.436	2.297	2.267	2.207	2.257	2.213	2.313			2.422	9.97	
Trans-1,2-Dichloroethene(sim)	1.515	1.638	1.439	1.379	1.250	1.259	1.183	1.236	1.209	1.265			1.337	11.25	
1,1-Dichloroethane(sim)	2.027	1.973	1.800	1.696	1.604	1.581	1.548	1.579	1.560	1.632			1.700	10.31	
Cis-1,2-Dichloroethene(sim)	1.474	1.453	1.381	1.206	1.190	1.208	1.148	1.181	1.123	1.192			1.256	10.28	
Chloroform(sim)		3.290	2.800	2.539	2.308	2.171	2.089	2.124	2.082	2.186			2.399	17.14	
1,2-dichloropropane(sim)	0.371	0.375	0.344	0.317	0.296	0.285	0.275	0.279	0.272	0.284			0.310	12.84	
Bromodichloromethane(sim)	0.688	0.668	0.647	0.571	0.567	0.586	0.540	0.549	0.536	0.564			0.592	9.39	
Trichloroethene(sim)	0.549	0.531	0.484	0.458	0.437	0.422	0.418	0.428	0.417	0.438			0.458	10.44	
1,4-Dioxane(sim)					0.181	0.159	0.146	0.186	0.176	0.177			0.171	8.77	
cis-1,3-Dichloropropene(sim)	0.537	0.544	0.489	0.453	0.436	0.429	0.424	0.436	0.432				0.464	10.20	
1,1,2-Trichloroethane(sim)	0.447	0.472	0.404	0.429	0.354	0.362	0.340	0.362	0.345	0.360			0.388	12.16	
Dibromochloromethane(sim)	0.853	0.845	0.781	0.740	0.713	0.703	0.694	0.718	0.703				0.750	8.24	
1,2-Dibromoethane(EDB)(sim)	0.733	0.724	0.668	0.589	0.593	0.610	0.582	0.593	0.591	0.622			0.630	9.11	
Tetrachloroethene(sim)	0.903	0.814	0.725	0.683	0.640	0.612	0.603	0.620	0.607	0.636	0.619		0.678	14.47	
Bromoform(sim)	2.435	2.255	2.102	2.037	1.929	1.904	1.892	1.964	1.942				2.051	9.01	
m,p-Xylene(sim)					2.424	2.421	2.376	2.483	2.476	2.580			2.460	2.88	
1,1,2,2-Tetrachloroethane(sim)	2.441	2.271	2.130	1.996	1.905	1.853	1.822	1.897	1.861	1.899			2.007	10.32	
Benzyl chloride(sim)	3.414	3.051	2.830	2.503	2.338	2.410	2.374	2.551	2.548				2.669	13.56	
1,3-Dichlorobenzene(sim)	3.617	3.177	2.944	2.805	2.666	2.639	2.635	2.771	2.704	2.779			2.874	10.74	
1,4-Dichlorobenzene(sim)	3.997	3.202	2.946	2.562	2.446	2.440	2.378	2.648	2.532				2.794	18.77	
sec-Butylbenzene(sim)		3.774	3.508	3.274	3.098	3.110	3.191	3.436	3.445	3.558			3.377	6.70	
4-Isopropyltoluene(sim)			4.581	4.423	3.922	4.035	4.219	4.515	4.496	4.698			4.361	6.30	
1,2-Dichlorobenzene(sim)	3.666	3.143	2.911	2.752	2.564	2.549	2.545	2.702	2.622	2.679			2.813	12.54	
n-Butylbenzene(sim)				3.473	3.233	3.338	3.300	3.602	3.568				3.419	4.41	
1,2,4-Trichlorobenzene(sim)		3.179	2.838	2.695	2.363	2.426	2.449	2.868	2.541				2.670	10.46	

(#) 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

6B
AIR INITIAL CALIBRATION DATA

Method File: 39 AIR 0303.M

[illegible]

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Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_02.D
 Acq On : 2 Mar 2023 4:58 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ; to1503p
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 09:05:44 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:03:54 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	414518	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1622566	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	662519	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	388759	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1622566	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	662519	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	913058	9.317	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	93.20%

Target Compounds					Qvalue
2) Propylene	4.041	41	973	0.049	ppbv# 26
3) Dichlorodifluoromethane	4.098	85	1543	0.016	ppbv# 91
4) Chloromethane	4.252	50	1341	0.056	ppbv 72
5) 1,2-Dichlorotetrafluor...	4.349	85	1602	0.016	ppbv# 84
6) Vinyl Chloride	4.463	62	292	0.009	ppbv# 1
7) 1,3-Butadiene	4.576	54	1785	0.084	ppbv# 75
8) Bromomethane	4.828	94	1320	0.034	ppbv# 90
9) Chloroethane	4.844	64	341	0.024	ppbv 88
11) Ethanol	5.039	45	338	0.046	ppbv# 46
12) Acetone	5.473	43	7646	0.203	ppbv# 76
13) Trichlorofluoromethane	5.572	101	1203	0.012	ppbv# 44
14) Isopropylalcohol	5.657	45	2376	0.054	ppbv# 96
15) Acrylonitrile	5.882	53	422	0.021	ppbv 86
16) 1,1-Dichloroethene	6.019	61	838	0.017	ppbv# 45
17) Methylene Chloride	6.103	49	1506	0.050	ppbv# 79
20) Carbon Disulfide	6.347	76	1547	0.015	ppbv# 78
21) Trichlorotrifluoroethane	6.287	101	1087	0.012	ppbv# 88
22) Trans-1,2-Dichloroethene	6.752	61	570	0.012	ppbv# 62
23) 1,1-Dichloroethane	6.883	63	943	0.016	ppbv 93
24) Methyl tert-butyl ethe...	6.894	73	441	0.005	ppbv# 62
26) Methyl Ethyl Ketone	7.156	43	1353	0.026	ppbv# 60
27) Cis-1,2-Dichloroethene	7.418	61	669	0.015	ppbv# 5
28) Hexane	7.529	57	1301	0.028	ppbv# 26
29) Chloroform	7.600	83	1712	0.021	ppbv 80
30) Ethyl acetate	7.553	61	74	0.005	ppbv# 1
31) Tetrahydrofuran	7.902	42	665	0.022	ppbv# 67
32) 1,2-Dichloroethane	8.076	62	632	0.015	ppbv# 76
33) 1,1,1-Trichloroethane	8.235	97	1387	0.017	ppbv# 80
34) Benzene	8.522	78	3676	0.030	ppbv# 69
35) Carbon Tetrachloride	8.618	117	1151	0.012	ppbv# 82
36) Cyclohexane	8.695	84	3244	0.067	ppbv# 11
38) 1,2-dichloropropane	8.998	63	715	0.016	ppbv# 50
39) Bromodichloromethane	9.111	83	1349	0.015	ppbv 83
40) Trichloroethene	9.128	130	1099	0.015	ppbv# 89
42) 1,4-Dioxane	9.180	88	623	0.023	ppbv# 45
44) Heptane	9.266	43	513	0.010	ppbv# 30
45) cis-1,3-Dichloropropene	9.618	75	849	0.012	ppbv# 79
46) 4-Methyl-2-pentanone(M...	9.653	43	3064	0.047	ppbv# 55
47) trans-1,3-Dichloropropene	9.913	75	827	0.013	ppbv# 51
48) 1,1,2-Trichloroethane	10.026	97	956	0.017	ppbv 89
49) Toluene	10.188	91	5050	0.030	ppbv# 92
50) Dibromochloromethane	10.441	129	1473	0.012	ppbv# 62

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_02.D
 Acq On : 2 Mar 2023 4:58 pm
 Operator :
 Client ID : ICAL 0.01
 Lab ID : 0.01 ; to1503p
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 09:05:44 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:03:54 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.328	43	945	0.015	ppbv#	85
52)	1,2-Dibromoethane(EDB)	10.582	107	1246	0.013	ppbv	95
53)	Tetrachloroethene	10.821	166	1774	0.016	ppbv#	85
55)	1,1,1,2-Tetrachloroethane	11.193	131	1277	0.017	ppbv	92
56)	Chlorobenzene	11.201	112	1984	0.014	ppbv#	1
57)	Ethylbenzene	11.390	91	3136	0.016	ppbv	91
58)	m,p-Xylene	11.489	91	4422	0.028	ppbv	92
59)	Bromoform	11.565	173	1896	0.013	ppbv#	86
60)	Styrene	11.694	104	1896	0.015	ppbv	93
61)	1,1,2,2-Tetrachloroethane	11.754	83	2138	0.018	ppbv#	88
62)	o-Xylene	11.754	91	2527	0.016	ppbv	91
65)	Isopropylbenzene	12.073	105	4006	0.017	ppbv#	92
67)	4-Ethyltoluene	12.445	105	3525	0.014	ppbv#	87
68)	1,3,5-Trimethylbenzene	12.483	105	2969	0.015	ppbv#	97
69)	1,2,4-Trimethylbenzene	12.733	105	2777	0.013	ppbv#	87
71)	Benzyl chloride	12.840	91	2070	0.012	ppbv#	86
72)	1,3-Dichlorobenzene	12.855	146	2552	0.014	ppbv	88
73)	1,4-Dichlorobenzene	12.900	146	2349	0.014	ppbv	92
74)	sec-Butylbenzene	12.900	105	3768	0.013	ppbv#	89
75)	4-Isopropyltoluene	12.992	119	4260	0.015	ppbv	94
76)	1,2-Dichlorobenzene	13.113	146	2299	0.014	ppbv#	86
77)	n-Butylbenzene	13.257	91	3420	0.015	ppbv	92
78)	1,2,4-Trichlorobenzene	14.313	180	2922	0.018	ppbv	95
80)	Hexachlorobutadiene	14.662	225	2758	0.016	ppbv	97
82)	1,2-Dichlorotetrafluor...	4.352	85	1309m	0.012	ppbv	84
83)	Vinyl Chloride(sim)	4.465	62	426	0.012	ppbv#	79
84)	Bromomethane(sim)	4.831	94	536m	0.012	ppbv	90
85)	Trichlorofluoromethane...	5.568	101	1238	0.011	ppbv#	96
86)	1,2-Dichloroethane(sim)	8.079	62	560m	0.012	ppbv	76
87)	1,1,1-Trichloroethane(...	8.238	97	1018	0.011	ppbv#	74
88)	Benzene(sim)	8.525	78	3375m	0.027	ppbv	69
89)	Carbon Tetrachloride(sim)	8.612	117	1125	0.012	ppbv	99
90)	1,1-Dichloroethene(sim)	6.034	61	669m	0.012	ppbv	17
91)	Trichlorotrifluoroetha...	6.284	101	1107	0.012	ppbv#	95
92)	Trans-1,2-Dichloroethe...	6.743	61	589m	0.011	ppbv	62
93)	1,1-Dichloroethane(sim)	6.885	63	788	0.012	ppbv#	88
94)	Cis-1,2-Dichloroethene...	7.421	61	573m	0.012	ppbv	5
95)	Chloroform(sim)	7.603	83	1608	0.017	ppbv#	93
97)	1,2-dichloropropane(sim)	9.001	63	602m	0.012	ppbv	86
98)	Bromodichloromethane(sim)	9.114	83	1117m	0.012	ppbv	91
99)	Trichloroethene(sim)	9.140	130	891	0.012	ppbv	92
100)	1,4-Dioxane(sim)	9.174	88	617m	0.022	ppbv	45
101)	cis-1,3-Dichloropropen...	9.620	75	872	0.012	ppbv	97
102)	1,1,2-Trichloroethane(...	10.029	97	726m	0.012	ppbv	89
103)	Dibromochloromethane(sim)	10.437	129	1384	0.011	ppbv#	87
104)	1,2-Dibromoethane(EDB)...	10.585	107	1189m	0.012	ppbv	81
105)	Tetrachloroethene(sim)	10.824	166	1465	0.013	ppbv	100
107)	Bromoform(sim)	11.568	173	1613	0.012	ppbv	99
108)	m,p-Xylene(sim)	11.484	91	4660m	0.029	ppbv	92
109)	1,1,2,2-Tetrachloroeth...	11.750	83	1617	0.012	ppbv#	98
112)	Benzyl chloride(sim)	12.835	91	2262m	0.013	ppbv	86
113)	1,3-Dichlorobenzene(sim)	12.858	146	2396	0.013	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.900	146	2648	0.014	ppbv	96
115)	sec-Butylbenzene(sim)	12.736	105	2799	0.013	ppbv	96
116)	4-Isopropyltoluene(sim)	12.987	119	3589m	0.012	ppbv	94

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_02.D
Acq On : 2 Mar 2023 4:58 pm
Operator :
Client ID : ICAL 0.01
Lab ID : 0.01 ; to1503p
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 03 09:05:44 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:03:54 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	2429	0.013	ppbv	97
118]	n-Butylbenzene(sim)	13.253	91	3430m	0.015	ppbv	92
119]	1,2,4-Trichlorobenzene...	14.316	180	2907	0.016	ppbv	98
121]	Hexachlorobutadiene(sim)	14.665	225	2448	0.015	ppbv	98

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

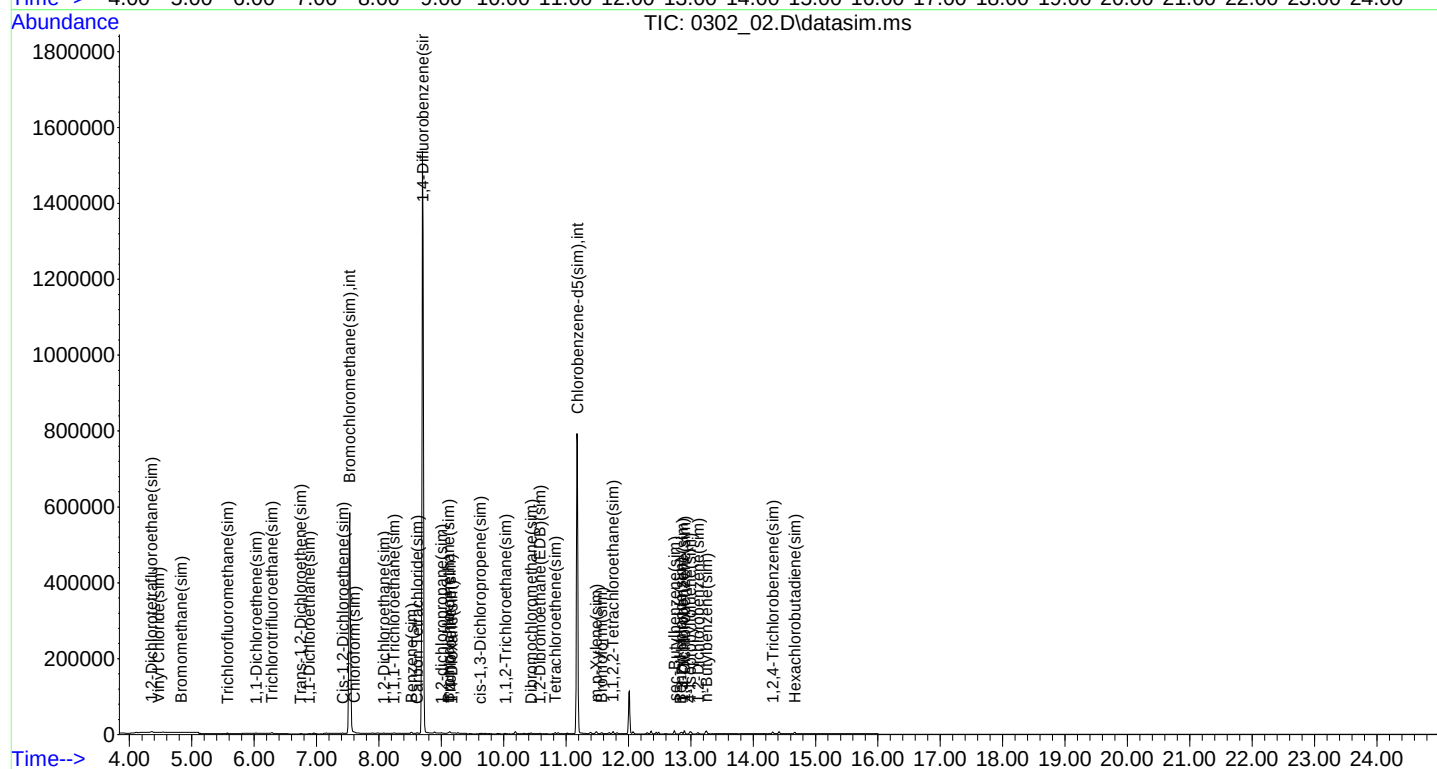
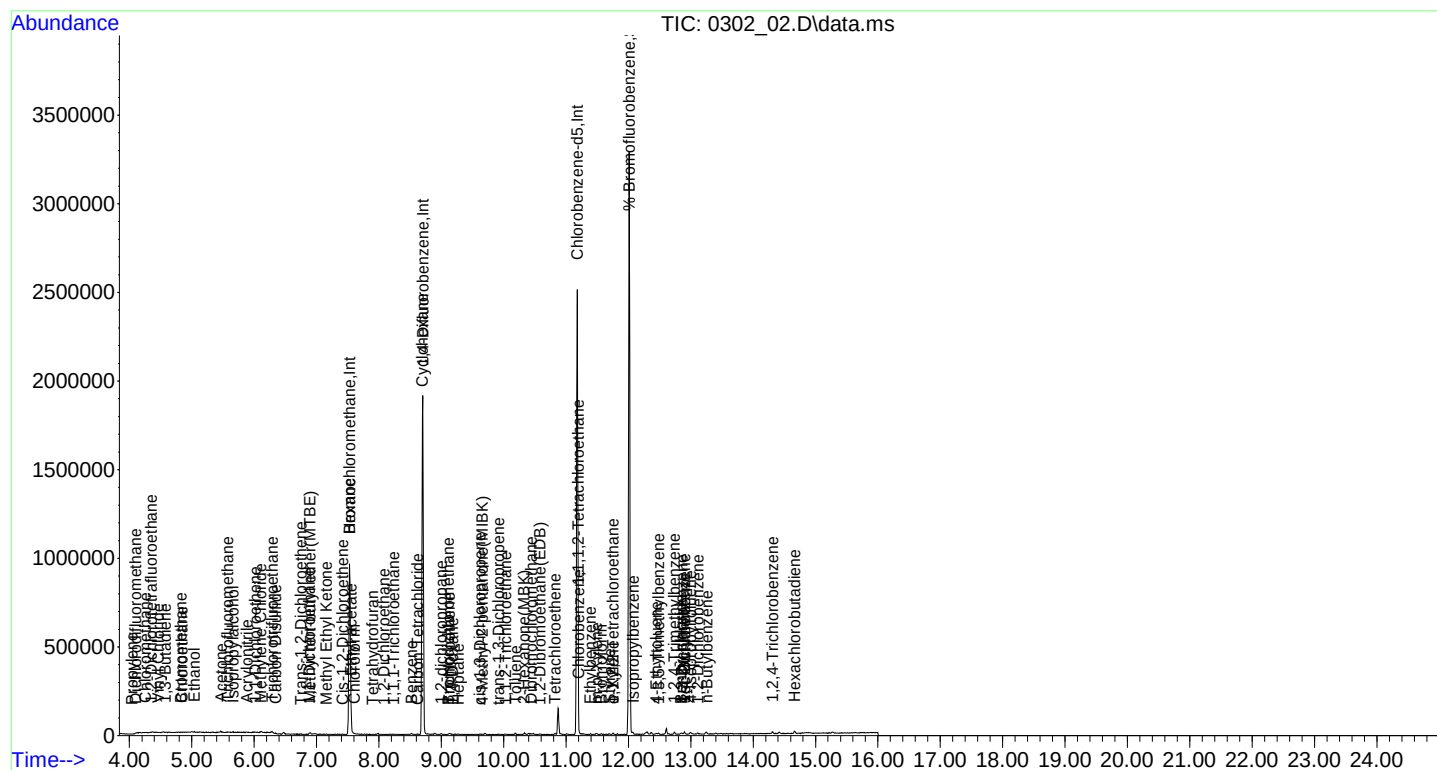
Quantitation Report (RF) (QT Reviewed)

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Data Path   : H:\AIR2023\CHEM39\03MAR\02A\
Data File   : 0302_02.D
Acq On      : 2 Mar 2023    4:58 pm
Operator    :
Client ID    : ICAL 0.01
Lab ID      : 0.01 ; to1503p
ALS Vial    : 2 Sample Multiplier: 1

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Quant Time: Mar 03 09:05:44 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:03:54 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_03.D
 Acq On : 2 Mar 2023 5:35 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ; to1503p
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 03 09:06:39 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	405454	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1556293	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	662385	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	379336	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1556293	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	663125	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	942142	9.607	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.10%

Target Compounds						Qvalue
2) Propylene	4.033	41	1011	0.052	ppbv#	44
3) Dichlorodifluoromethane	4.106	85	2471	0.026	ppbv#	86
4) Chloromethane	4.268	50	1721	0.074	ppbv	89
5) 1,2-Dichlorotetrafluor...	4.357	85	2565	0.026	ppbv	95
6) Vinyl Chloride	4.471	62	1116	0.036	ppbv#	34
7) 1,3-Butadiene	4.592	54	1078	0.052	ppbv#	84
8) Bromomethane	4.828	94	1736	0.045	ppbv#	90
9) Chloroethane	4.974	64	1098	0.078	ppbv#	76
11) Ethanol	5.079	45	784	0.109	ppbv#	1
12) Acetone	5.467	43	7889	0.215	ppbv#	79
13) Trichlorofluoromethane	5.578	101	2592	0.026	ppbv	93
14) Isopropylalcohol	5.584	45	220	0.005	ppbv#	63
15) Acrylonitrile	5.786	53	841	0.042	ppbv	91
16) 1,1-Dichloroethene	6.037	61	1232	0.025	ppbv#	39
17) Methylene Chloride	6.108	49	1950	0.066	ppbv	90
20) Carbon Disulfide	6.347	76	2707	0.027	ppbv#	70
21) Trichlorotrifluoroethane	6.281	101	2111	0.025	ppbv#	92
22) Trans-1,2-Dichloroethene	6.752	61	1278	0.027	ppbv#	79
23) 1,1-Dichloroethane	6.882	63	1593	0.028	ppbv	97
24) Methyl tert-butyl ethe...	6.888	73	239	0.003	ppbv#	4
26) Methyl Ethyl Ketone	7.079	43	464	0.009	ppbv#	48
27) Cis-1,2-Dichloroethene	7.418	61	978	0.022	ppbv#	48
28) Hexane	7.537	57	1467	0.032	ppbv#	17
29) Chloroform	7.600	83	3047	0.038	ppbv	88
30) Ethyl acetate	7.553	61	349	0.025	ppbv#	11
31) Tetrahydrofuran	7.846	42	176	0.006	ppbv#	23
32) 1,2-Dichloroethane	8.084	62	960	0.023	ppbv#	53
33) 1,1,1-Trichloroethane	8.235	97	2217	0.027	ppbv	97
34) Benzene	8.522	78	5125	0.043	ppbv#	78
35) Carbon Tetrachloride	8.609	117	2142	0.023	ppbv	91
36) Cyclohexane	8.695	84	3304	0.070	ppbv#	1
38) 1,2-dichloropropane	8.998	63	1401	0.033	ppbv#	53
39) Bromodichloromethane	9.111	83	2246	0.026	ppbv	99
40) Trichloroethene	9.128	130	2037	0.029	ppbv	92
42) 1,4-Dioxane	9.171	88	769	0.029	ppbv#	63
44) Heptane	9.266	43	1988	0.039	ppbv#	85
45) cis-1,3-Dichloropropene	9.618	75	1556	0.024	ppbv#	77
46) 4-Methyl-2-pentanone(M...	9.618	43	941	0.015	ppbv#	41
47) trans-1,3-Dichloropropene	9.913	75	1570	0.026	ppbv#	88
48) 1,1,2-Trichloroethane	10.026	97	1726	0.031	ppbv	91
49) Toluene	10.188	91	6526	0.040	ppbv	98
50) Dibromochloromethane	10.441	129	2953	0.025	ppbv#	93

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_03.D
 Acq On : 2 Mar 2023 5:35 pm
 Operator :
 Client ID : ICAL 0.02
 Lab ID : 0.02 ; to1503p
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 03 09:06:39 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.321	43	2578	0.042	ppbv#	81
52)	1,2-Dibromoethane(EDB)	10.589	107	2329	0.025	ppbv	96
53)	Tetrachloroethene	10.828	166	2677	0.025	ppbv#	87
55)	1,1,1,2-Tetrachloroethane	11.186	131	2203	0.028	ppbv	90
56)	Chlorobenzene	11.201	112	3544	0.025	ppbv#	1
57)	Ethylbenzene	11.390	91	5365	0.027	ppbv	95
58)	m,p-Xylene	11.489	91	7899	0.051	ppbv	99
59)	Bromoform	11.572	173	3280	0.022	ppbv	89
60)	Styrene	11.686	104	3334	0.026	ppbv#	93
61)	1,1,2,2-Tetrachloroethane	11.747	83	3037	0.025	ppbv	94
62)	o-Xylene	11.754	91	4139	0.026	ppbv	98
65)	Isopropylbenzene	12.073	105	6471	0.028	ppbv	95
67)	4-Ethyltoluene	12.445	105	6643	0.026	ppbv#	95
68)	1,3,5-Trimethylbenzene	12.483	105	4808	0.024	ppbv	99
69)	1,2,4-Trimethylbenzene	12.741	105	5341	0.026	ppbv	93
71)	Benzyl chloride	12.840	91	4047	0.024	ppbv	100
72)	1,3-Dichlorobenzene	12.855	146	4570	0.025	ppbv	94
73)	1,4-Dichlorobenzene	12.893	146	4246	0.026	ppbv	97
74)	sec-Butylbenzene	12.900	105	6722	0.023	ppbv#	97
75)	4-Isopropyltoluene	12.984	119	7005	0.024	ppbv	94
76)	1,2-Dichlorobenzene	13.113	146	4003	0.024	ppbv	93
77)	n-Butylbenzene	13.257	91	5630	0.025	ppbv	92
78)	1,2,4-Trichlorobenzene	14.313	180	4226	0.026	ppbv	93
80)	Hexachlorobutadiene	14.670	225	4549	0.027	ppbv	98
82)	1,2-Dichlorotetrafluor...	4.352	85	2440m	0.023	ppbv	95
83)	Vinyl Chloride(sim)	4.465	62	800	0.023	ppbv#	83
84)	Bromomethane(sim)	4.830	94	1092m	0.026	ppbv	90
85)	Trichlorofluoromethane...	5.574	101	2377	0.022	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.079	62	1011m	0.022	ppbv	53
87)	1,1,1-Trichloroethane(...	8.246	97	2002	0.023	ppbv#	85
88)	Benzene(sim)	8.525	78	4706m	0.039	ppbv	78
89)	Carbon Tetrachloride(sim)	8.612	117	2158	0.023	ppbv	99
90)	1,1-Dichloroethene(sim)	6.034	61	1352m	0.025	ppbv	36
91)	Trichlorotrifluoroetha...	6.290	101	2136	0.023	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.748	61	1243m	0.025	ppbv	79
93)	1,1-Dichloroethane(sim)	6.885	63	1497	0.023	ppbv#	93
94)	Cis-1,2-Dichloroethene...	7.421	61	1102m	0.023	ppbv	57
95)	Chloroform(sim)	7.611	83	2496	0.027	ppbv#	95
97)	1,2-dichloropropane(sim)	9.001	63	1166	0.024	ppbv	96
98)	Bromodichloromethane(sim)	9.114	83	2079m	0.023	ppbv	94
99)	Trichloroethene(sim)	9.139	130	1652	0.023	ppbv	96
100)	1,4-Dioxane(sim)	9.174	88	970m	0.037	ppbv	63
101)	cis-1,3-Dichloropropen...	9.620	75	1693	0.023	ppbv	99
102)	1,1,2-Trichloroethane(...	10.029	97	1470m	0.024	ppbv	90
103)	Dibromochloromethane(sim)	10.437	129	2629	0.023	ppbv	94
104)	1,2-Dibromoethane(EDB)...	10.589	107	2255	0.023	ppbv	93
105)	Tetrachloroethene(sim)	10.824	166	2533	0.024	ppbv	98
107)	Bromoform(sim)	11.568	173	2991	0.022	ppbv	99
108)	m,p-Xylene(sim)	11.489	91	7899	0.048	ppbv	97
109)	1,1,2,2-Tetrachloroeth...	11.750	83	3012	0.023	ppbv	98
112)	Benzyl chloride(sim)	12.840	91	4047	0.023	ppbv	100
113)	1,3-Dichlorobenzene(sim)	12.858	146	4214	0.022	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.893	146	4246	0.023	ppbv	97
115)	sec-Butylbenzene(sim)	12.736	105	5005	0.022	ppbv	98
116)	4-Isopropyltoluene(sim)	12.984	119	7005	0.024	ppbv	94

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_03.D
Acq On : 2 Mar 2023 5:35 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02 ; to1503p
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 03 09:06:39 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	4169	0.022	ppbv	98
118]	n-Butylbenzene(sim)	13.257	91	5630	0.025	ppbv	92
119]	1,2,4-Trichlorobenzene...	14.316	180	4216	0.024	ppbv	98
121]	Hexachlorobutadiene(sim)	14.665	225	3965	0.024	ppbv	99

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

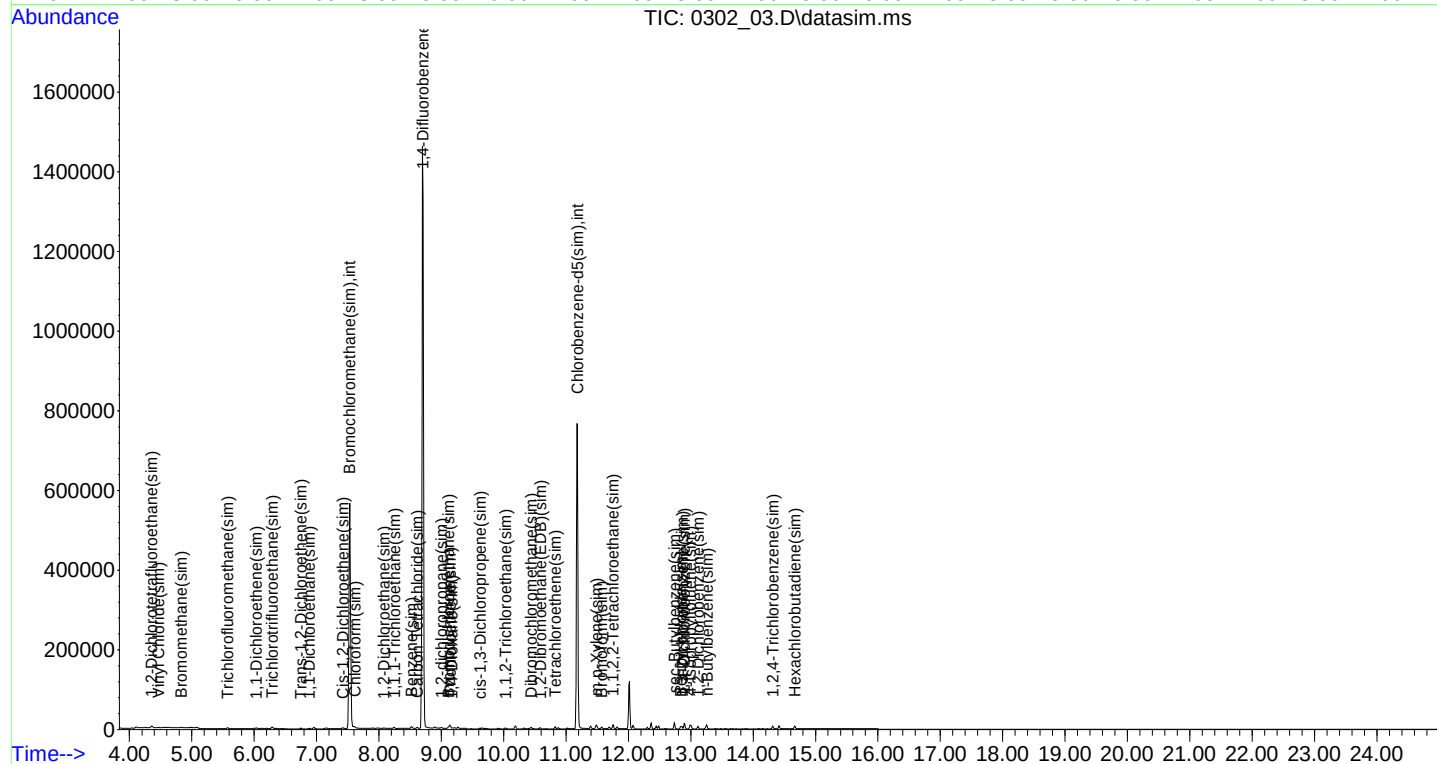
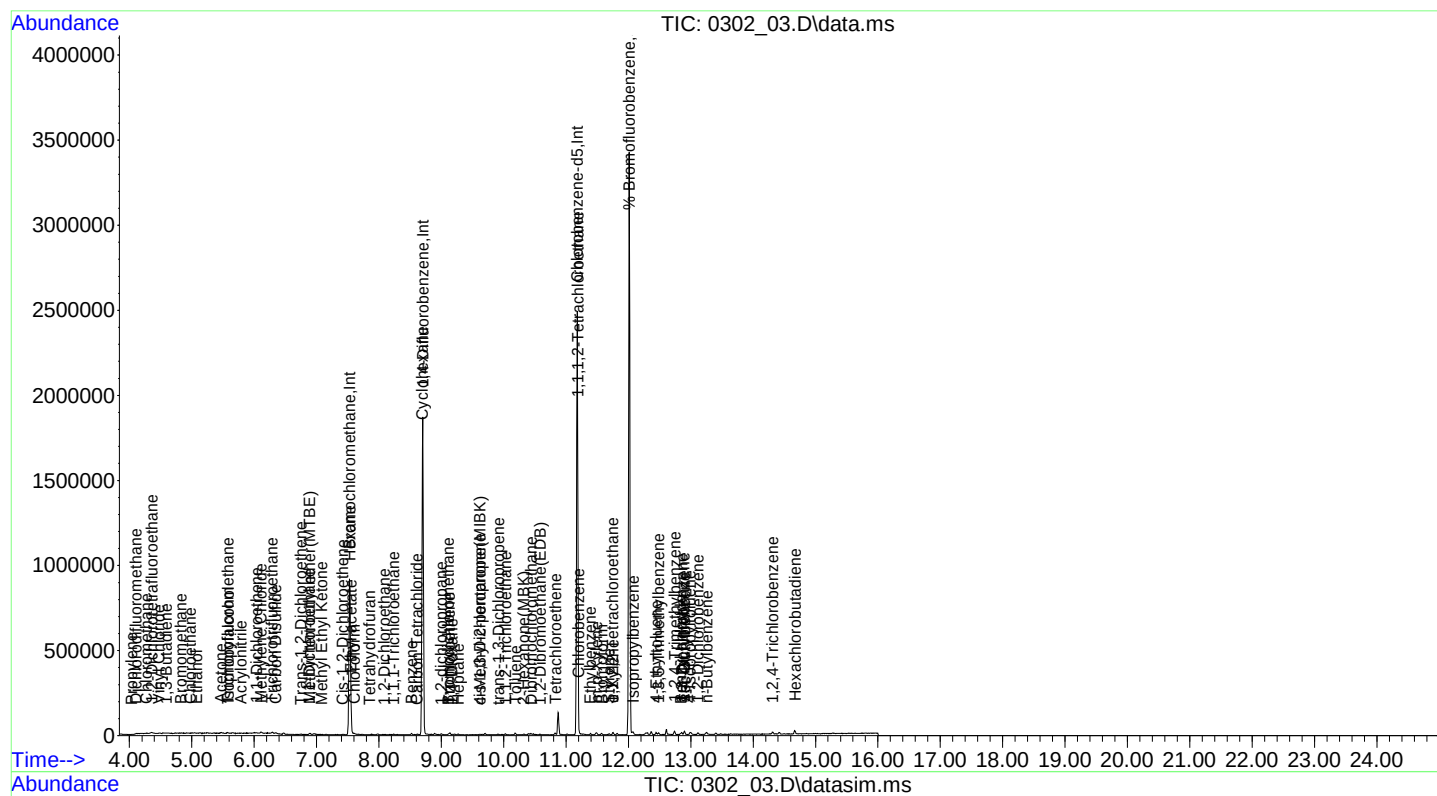
Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_03.D
Acq On : 2 Mar 2023 5:35 pm
Operator :
Client ID : ICAL 0.02
Lab ID : 0.02 ; to1503p
ALS Vial : 3 Sample Multiplier: 1

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Quant Time: Mar 03 09:06:39 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_04.D
 Acq On : 2 Mar 2023 6:13 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ; to1503p
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 03 09:08:00 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:07:04 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.537	130	393702	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.703	114	1528706	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	636790	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	371397	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.703	114	1528706	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	636790	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	934496	9.921	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Propylene	4.041	41	1676	0.089	ppbv#	79
3) Dichlorodifluoromethane	4.114	85	3991	0.043	ppbv	96
4) Chloromethane	4.276	50	1371	0.061	ppbv	70
5) 1,2-Dichlorotetrafluor...	4.357	85	4107	0.043	ppbv	99
6) Vinyl Chloride	4.471	62	1295	0.044	ppbv#	50
7) 1,3-Butadiene	4.592	54	2088	0.103	ppbv	97
8) Bromomethane	4.836	94	2273	0.061	ppbv	95
9) Chloroethane	4.974	64	1028	0.075	ppbv#	64
11) Ethanol	5.079	45	1457	0.209	ppbv#	80
12) Acetone	5.467	43	6518	0.183	ppbv	96
13) Trichlorofluoromethane	5.572	101	3881	0.039	ppbv#	90
14) Isopropylalcohol	5.584	45	480	0.011	ppbv#	34
15) Acrylonitrile	5.780	53	1432	0.073	ppbv#	91
16) 1,1-Dichloroethene	6.037	61	2159	0.046	ppbv#	83
17) Methylene Chloride	6.114	49	1988	0.069	ppbv	87
20) Carbon Disulfide	6.353	76	4195	0.044	ppbv#	70
21) Trichlorotrifluoroethane	6.287	101	3569	0.043	ppbv	97
22) Trans-1,2-Dichloroethene	6.746	61	1867	0.041	ppbv	89
23) 1,1-Dichloroethane	6.883	63	2248	0.040	ppbv	97
24) Methyl tert-butyl ethe...	6.906	73	225	0.002	ppbv#	37
26) Methyl Ethyl Ketone	7.085	43	42	0.001	ppbv#	1
27) Cis-1,2-Dichloroethene	7.418	61	1847	0.043	ppbv	90
28) Hexane	7.537	57	2304	0.051	ppbv#	68
29) Chloroform	7.608	83	3737	0.048	ppbv	97
30) Ethyl acetate	7.545	61	430	0.031	ppbv#	58
31) Tetrahydrofuran	7.854	42	80	0.003	ppbv#	23
32) 1,2-Dichloroethane	8.076	62	1790	0.044	ppbv#	78
33) 1,1,1-Trichloroethane	8.243	97	3486	0.044	ppbv	96
34) Benzene	8.522	78	6661	0.058	ppbv#	84
35) Carbon Tetrachloride	8.617	117	3573	0.039	ppbv	90
36) Cyclohexane	8.695	84	4093	0.090	ppbv#	20
38) 1,2-dichloropropane	9.006	63	1894	0.046	ppbv#	82
39) Bromodichloromethane	9.119	83	3463	0.041	ppbv	96
40) Trichloroethene	9.136	130	2668	0.039	ppbv#	84
42) 1,4-Dioxane	9.179	88	1049	0.040	ppbv#	65
44) Heptane	9.274	43	3354	0.067	ppbv#	70
45) cis-1,3-Dichloropropene	9.617	75	2635	0.041	ppbv	87
46) 4-Methyl-2-pentanone(M...	9.603	43	189	0.003	ppbv#	41
47) trans-1,3-Dichloropropene	9.912	75	2130	0.036	ppbv	92
48) 1,1,2-Trichloroethane	10.025	97	2347	0.044	ppbv	93
49) Toluene	10.187	91	8896	0.056	ppbv	94
50) Dibromochloromethane	10.440	129	4361	0.037	ppbv#	87

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_04.D
 Acq On : 2 Mar 2023 6:13 pm
 Operator :
 Client ID : ICAL 0.035
 Lab ID : 0.035 ; to1503p
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 03 09:08:00 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:07:04 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.321	43	3370	0.056	ppbv#	79
52)	1,2-Dibromoethane(EDB)	10.581	107	3574	0.039	ppbv	98
53)	Tetrachloroethene	10.820	166	4286	0.041	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.192	131	3044	0.041	ppbv	99
56)	Chlorobenzene	11.200	112	5689	0.043	ppbv#	1
57)	Ethylbenzene	11.390	91	7993	0.042	ppbv	98
58)	m,p-Xylene	11.488	91	12288	0.082	ppbv	98
59)	Bromoform	11.572	173	5826	0.041	ppbv	97
60)	Styrene	11.693	104	4610	0.038	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.754	83	4733	0.041	ppbv	90
62)	o-Xylene	11.754	91	6269	0.041	ppbv	93
65)	Isopropylbenzene	12.072	105	9585	0.043	ppbv	97
67)	4-Ethyltoluene	12.444	105	9177	0.038	ppbv#	92
68)	1,3,5-Trimethylbenzene	12.482	105	7492	0.040	ppbv#	89
69)	1,2,4-Trimethylbenzene	12.733	105	7477	0.037	ppbv#	93
71)	Benzyl chloride	12.839	91	6307	0.039	ppbv#	97
72)	1,3-Dichlorobenzene	12.854	146	6959	0.040	ppbv	98
73)	1,4-Dichlorobenzene	12.892	146	6482	0.041	ppbv	96
74)	sec-Butylbenzene	12.900	105	10230	0.036	ppbv	95
75)	4-Isopropyltoluene	12.991	119	10211	0.037	ppbv	96
76)	1,2-Dichlorobenzene	13.112	146	7057	0.044	ppbv	95
77)	n-Butylbenzene	13.257	91	8459	0.038	ppbv	96
78)	1,2,4-Trichlorobenzene	14.312	180	6411	0.040	ppbv#	97
80)	Hexachlorobutadiene	14.669	225	6695	0.041	ppbv	92
82)	1,2-Dichlorotetrafluor...	4.357	85	4107	0.039	ppbv	99
83)	Vinyl Chloride(sim)	4.474	62	1300	0.038	ppbv	94
84)	Bromomethane(sim)	4.839	94	1533m	0.037	ppbv	93
85)	Trichlorofluoromethane...	5.575	101	3805	0.037	ppbv#	98
86)	1,2-Dichloroethane(sim)	8.079	62	1737m	0.039	ppbv	78
87)	1,1,1-Trichloroethane(...	8.246	97	3091	0.036	ppbv#	88
88)	Benzene(sim)	8.522	78	6661	0.056	ppbv#	84
89)	Carbon Tetrachloride(sim)	8.620	117	3399	0.036	ppbv	99
90)	1,1-Dichloroethene(sim)	6.037	61	2159	0.040	ppbv	88
91)	Trichlorotrifluoroetha...	6.290	101	3333	0.037	ppbv#	97
92)	Trans-1,2-Dichloroethe...	6.749	61	1870m	0.038	ppbv	89
93)	1,1-Dichloroethane(sim)	6.885	63	2340	0.037	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.421	61	1795m	0.038	ppbv	90
95)	Chloroform(sim)	7.611	83	3640	0.041	ppbv#	96
97)	1,2-dichloropropane(sim)	9.000	63	1843	0.039	ppbv	98
98)	Bromodichloromethane(sim)	9.119	83	3463	0.038	ppbv	97
99)	Trichloroethene(sim)	9.139	130	2590	0.037	ppbv	97
100)	1,4-Dioxane(sim)	9.173	88	1183m	0.045	ppbv	65
101)	cis-1,3-Dichloropropen...	9.620	75	2615	0.037	ppbv	98
102)	1,1,2-Trichloroethane(...	10.028	97	2163m	0.036	ppbv	93
103)	Dibromochloromethane(sim)	10.443	129	4180	0.036	ppbv	95
104)	1,2-Dibromoethane(EDB)...	10.581	107	3574	0.037	ppbv	99
105)	Tetrachloroethene(sim)	10.823	166	3877	0.037	ppbv	98
107)	Bromoform(sim)	11.567	173	4685	0.036	ppbv	99
108)	m,p-Xylene(sim)	11.488	91	12288	0.078	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.749	83	4747	0.037	ppbv	99
112)	Benzyl chloride(sim)	12.839	91	6307	0.037	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.857	146	6561	0.036	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.892	146	6565	0.037	ppbv	95
115)	sec-Butylbenzene(sim)	12.736	105	7819	0.036	ppbv	98
116)	4-Isopropyltoluene(sim)	12.991	119	10211	0.037	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_04.D
Acq On : 2 Mar 2023 6:13 pm
Operator :
Client ID : ICAL 0.035
Lab ID : 0.035 ; to1503p
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 03 09:08:00 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:07:04 2023
Response via : Initial Calibration

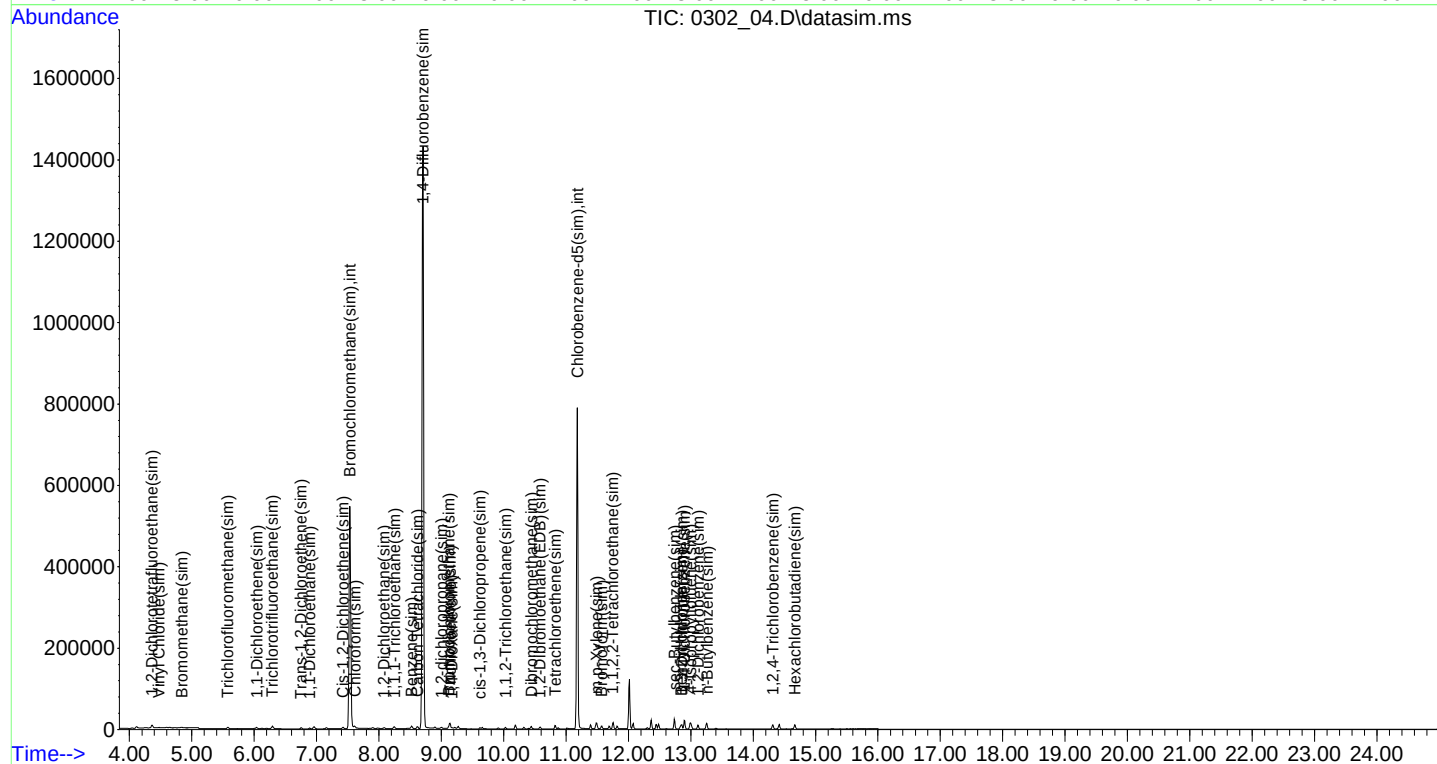
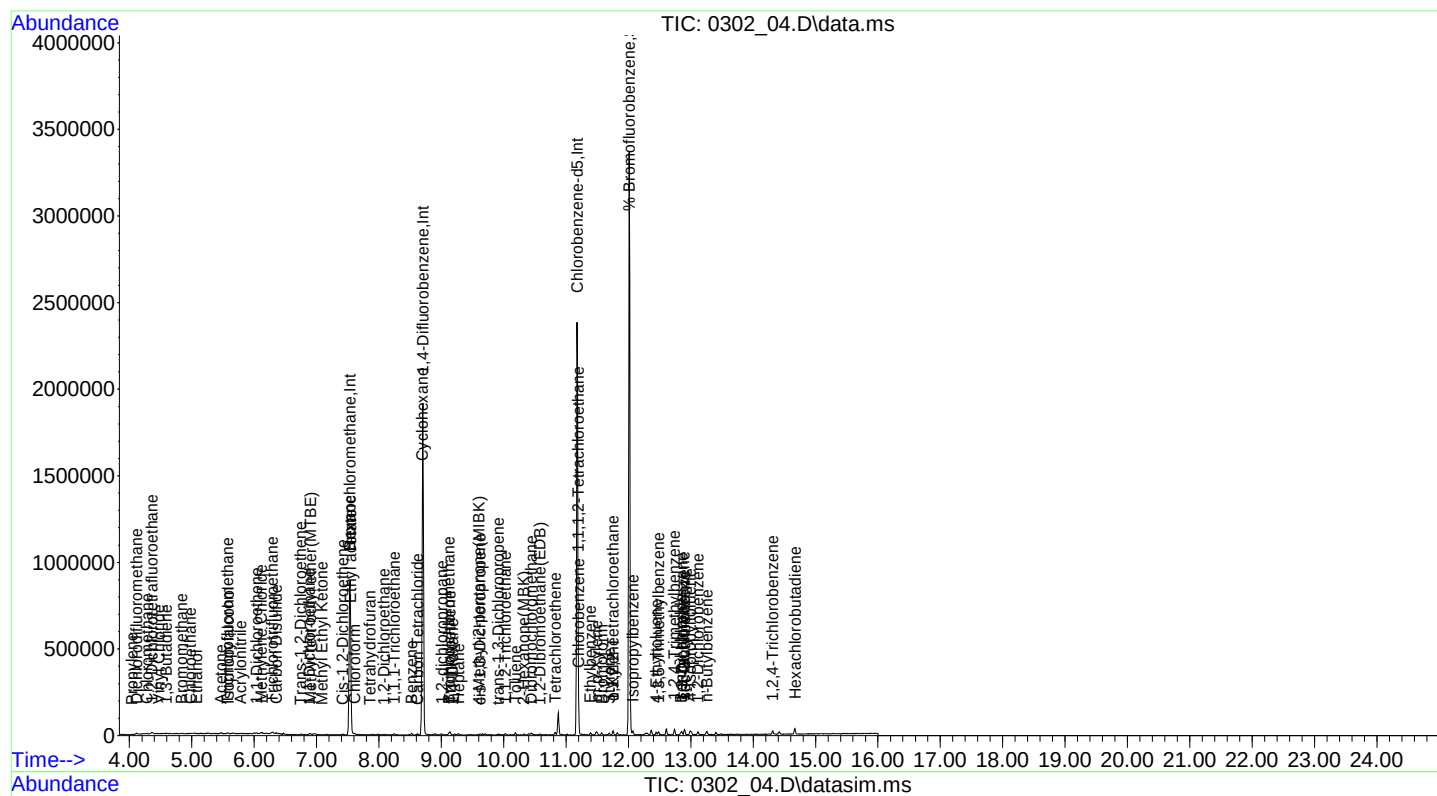
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.115	146	6489	0.036	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	8459	0.039	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.315	180	6326	0.037	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	6096	0.038	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2023\CHEM39\03MAR\02A\  
Data File : 0302_04.D  
Acq On : 2 Mar 2023 6:13 pm  
Operator :  
Client ID : ICAL 0.035  
Lab ID : 0.035 ; to1503p  
ALS Vial : 4 Sample Multiplier: 1
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Quant Time: Mar 03 09:08:00 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:07:04 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_05.D
 Acq On : 2 Mar 2023 6:52 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ; to1503p
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 09:08:47 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:08:19 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	383788	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.703	114	1498703	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	622811	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	363788	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.703	114	1498711	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	622811	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	917595	9.960	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.60%

Target Compounds						Qvalue
2) Propylene	4.049	41	1966	0.107	ppbv#	78
3) Dichlorodifluoromethane	4.106	85	5163	0.057	ppbv#	96
4) Chloromethane	4.260	50	1833	0.083	ppbv	93
5) 1,2-Dichlorotetrafluor...	4.349	85	4977	0.054	ppbv#	88
6) Vinyl Chloride	4.463	62	1770	0.061	ppbv	70
7) 1,3-Butadiene	4.584	54	1573	0.080	ppbv#	73
8) Bromomethane	4.819	94	2520	0.069	ppbv#	93
9) Chloroethane	4.965	64	1298	0.097	ppbv	83
11) Ethanol	5.079	45	1751	0.258	ppbv#	51
12) Acetone	5.461	43	6258	0.180	ppbv	93
13) Trichlorofluoromethane	5.572	101	5303	0.055	ppbv#	88
14) Isopropylalcohol	5.596	45	737	0.018	ppbv#	89
15) Acrylonitrile	5.774	53	1539	0.081	ppbv#	90
16) 1,1-Dichloroethene	6.031	61	2676	0.058	ppbv#	86
17) Methylene Chloride	6.114	49	2424	0.086	ppbv	91
20) Carbon Disulfide	6.347	76	5552	0.059	ppbv	100
21) Trichlorotrifluoroethane	6.281	101	4480	0.055	ppbv	95
22) Trans-1,2-Dichloroethene	6.746	61	2508	0.057	ppbv	89
23) 1,1-Dichloroethane	6.883	63	3233	0.059	ppbv	97
24) Methyl tert-butyl ethe...	6.859	73	119	0.001	ppbv#	43
26) Methyl Ethyl Ketone	7.073	43	652	0.014	ppbv#	61
27) Cis-1,2-Dichloroethene	7.418	61	2193	0.052	ppbv	92
28) Hexane	7.537	57	3058	0.070	ppbv#	86
29) Chloroform	7.608	83	4415	0.058	ppbv	91
30) Ethyl acetate	7.553	61	730	0.055	ppbv#	88
31) Tetrahydrofuran	7.902	42	1888	0.069	ppbv	97
32) 1,2-Dichloroethane	8.076	62	2122	0.054	ppbv#	75
33) 1,1,1-Trichloroethane	8.243	97	4547	0.059	ppbv	95
34) Benzene	8.522	78	7772	0.069	ppbv#	89
35) Carbon Tetrachloride	8.608	117	4854	0.055	ppbv	95
36) Cyclohexane	8.695	84	4560	0.102	ppbv#	43
38) 1,2-dichloropropane	9.006	63	2379	0.059	ppbv#	92
39) Bromodichloromethane	9.110	83	4276	0.052	ppbv	86
40) Trichloroethene	9.136	130	3604	0.054	ppbv	99
42) 1,4-Dioxane	9.171	88	1814	0.071	ppbv#	56
44) Heptane	9.266	43	3400	0.070	ppbv#	80
45) cis-1,3-Dichloropropene	9.617	75	3675	0.058	ppbv	88
46) 4-Methyl-2-pentanone(M...	9.561	43	683	0.011	ppbv#	41
47) trans-1,3-Dichloropropene	9.905	75	2973	0.051	ppbv#	83
48) 1,1,2-Trichloroethane	10.025	97	3216	0.061	ppbv	97
49) Toluene	10.187	91	9541	0.061	ppbv	92
50) Dibromochloromethane	10.440	129	5701	0.050	ppbv#	91

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_05.D
 Acq On : 2 Mar 2023 6:52 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ; to1503p
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 09:08:47 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:08:19 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.321	43	4015	0.069	ppbv#	85
52)	1,2-Dibromoethane(EDB)	10.581	107	4411	0.049	ppbv	87
53)	Tetrachloroethene	10.820	166	5517	0.054	ppbv	94
55)	1,1,1,2-Tetrachloroethane	11.185	131	3987	0.055	ppbv	99
56)	Chlorobenzene	11.208	112	7626	0.058	ppbv#	1
57)	Ethylbenzene	11.390	91	10244	0.055	ppbv	96
58)	m,p-Xylene	11.488	91	16274	0.112	ppbv	98
59)	Bromoform	11.564	173	7136	0.051	ppbv	96
60)	Styrene	11.693	104	5727	0.048	ppbv#	92
61)	1,1,2,2-Tetrachloroethane	11.754	83	6485	0.058	ppbv	97
62)	o-Xylene	11.754	91	8083	0.054	ppbv	97
65)	Isopropylbenzene	12.072	105	12518	0.057	ppbv	96
67)	4-Ethyltoluene	12.444	105	12860	0.054	ppbv	91
68)	1,3,5-Trimethylbenzene	12.482	105	9442	0.051	ppbv#	98
69)	1,2,4-Trimethylbenzene	12.740	105	9545	0.049	ppbv#	93
71)	Benzyl chloride	12.839	91	7722	0.049	ppbv	97
72)	1,3-Dichlorobenzene	12.854	146	9592	0.056	ppbv	96
73)	1,4-Dichlorobenzene	12.892	146	7978	0.052	ppbv	95
74)	sec-Butylbenzene	12.900	105	13319	0.048	ppbv	96
75)	4-Isopropyltoluene	12.991	119	13775	0.051	ppbv	99
76)	1,2-Dichlorobenzene	13.112	146	8309	0.052	ppbv	99
77)	n-Butylbenzene	13.257	91	10814	0.050	ppbv	99
78)	1,2,4-Trichlorobenzene	14.312	180	8596	0.055	ppbv	98
80)	Hexachlorobutadiene	14.669	225	9314	0.059	ppbv	97
82)	1,2-Dichlorotetrafluor...	4.349	85	4977	0.049	ppbv	89
83)	Vinyl Chloride(sim)	4.465	62	1709	0.052	ppbv	98
84)	Bromomethane(sim)	4.830	94	2035m	0.050	ppbv	92
85)	Trichlorofluoromethane...	5.568	101	5232	0.051	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.076	62	2122	0.049	ppbv#	75
87)	1,1,1-Trichloroethane(...	8.238	97	4200	0.050	ppbv#	92
88)	Benzene(sim)	8.522	78	7772	0.066	ppbv#	89
89)	Carbon Tetrachloride(sim)	8.611	117	4555	0.050	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	2676	0.051	ppbv#	86
91)	Trichlorotrifluoroetha...	6.284	101	4431	0.050	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.746	61	2508	0.052	ppbv	89
93)	1,1-Dichloroethane(sim)	6.879	63	3085	0.050	ppbv	98
94)	Cis-1,2-Dichloroethene...	7.418	61	2193	0.048	ppbv	92
95)	Chloroform(sim)	7.603	83	4618	0.053	ppbv#	98
97)	1,2-dichloropropane(sim)	9.000	63	2372	0.051	ppbv	98
98)	Bromodichloromethane(sim)	9.110	83	4276	0.048	ppbv	85
99)	Trichloroethene(sim)	9.139	130	3433	0.050	ppbv	98
100)	1,4-Dioxane(sim)	9.171	88	1814	0.071	ppbv#	56
101)	cis-1,3-Dichloropropen...	9.620	75	3392	0.049	ppbv	96
102)	1,1,2-Trichloroethane(...	10.025	97	3216	0.055	ppbv	97
103)	Dibromochloromethane(sim)	10.443	129	5547	0.049	ppbv	96
104)	1,2-Dibromoethane(EDB)...	10.581	107	4411	0.047	ppbv	87
105)	Tetrachloroethene(sim)	10.823	166	5115	0.050	ppbv	99
107)	Bromoform(sim)	11.567	173	6343	0.050	ppbv	100
108)	m,p-Xylene(sim)	11.488	91	16274	0.106	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.749	83	6216	0.050	ppbv	99
112)	Benzyl chloride(sim)	12.839	91	7793	0.047	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.857	146	8735	0.049	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.892	146	7978	0.046	ppbv	95
115)	sec-Butylbenzene(sim)	12.736	105	10195	0.048	ppbv	98
116)	4-Isopropyltoluene(sim)	12.991	119	13775	0.051	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_05.D
Acq On : 2 Mar 2023 6:52 pm
Operator :
Client ID : ICAL 0.05
Lab ID : 0.05 ; to1503p
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 09:08:47 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:08:19 2023
Response via : Initial Calibration

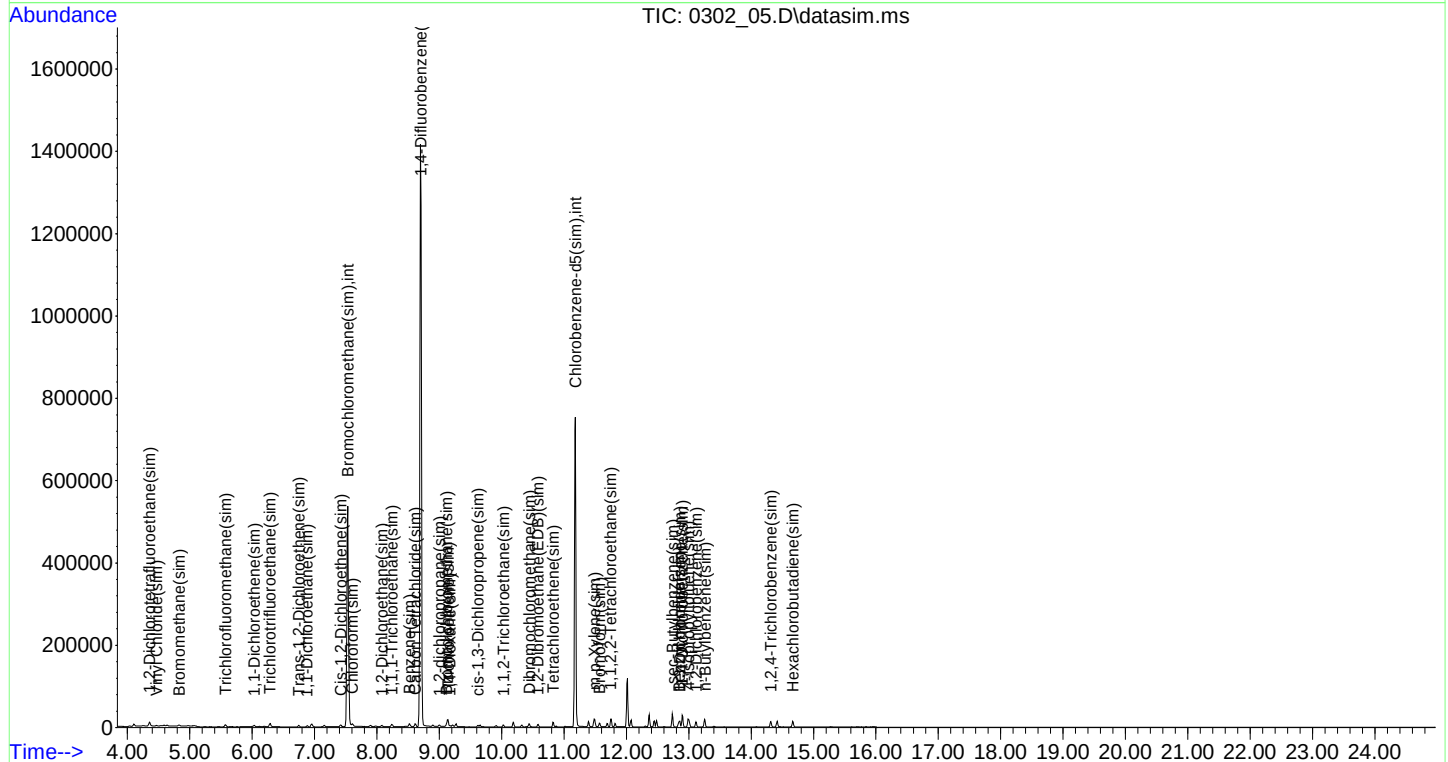
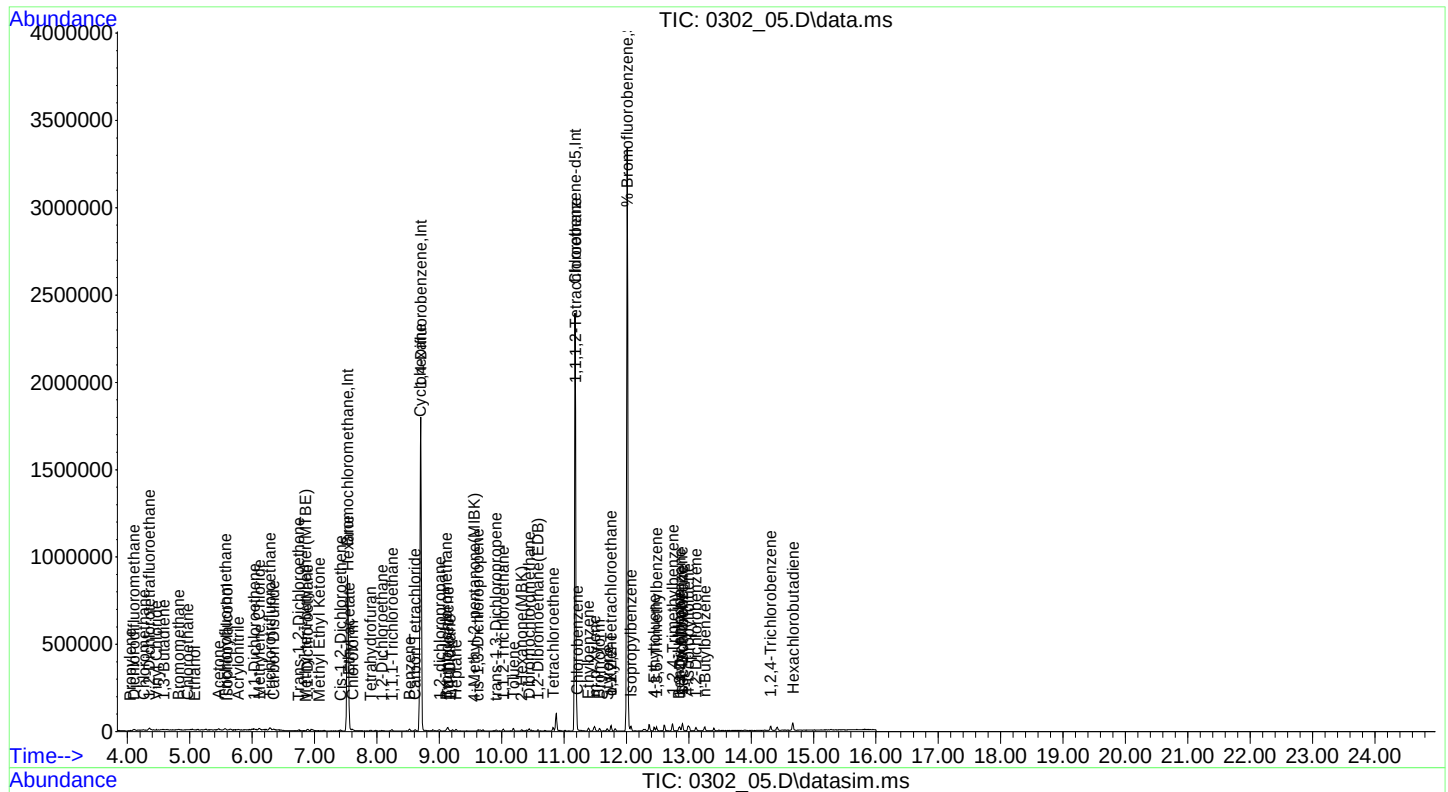
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.115	146	8570	0.049	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	10814	0.051	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.315	180	8392	0.050	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	8066	0.051	ppbv	99

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_05.D
 Acq On : 2 Mar 2023 6:52 pm
 Operator :
 Client ID : ICAL 0.05
 Lab ID : 0.05 ; to1503p
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 03 09:08:47 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 08:08:19 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_06.D
 Acq On : 2 Mar 2023 7:28 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ; to1503g
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 09:09:32 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:09:09 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	381028	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1460552	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	605653	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	354813	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1460552	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	605653	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	900860	10.055	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.60%

Target Compounds						Qvalue
2) Propylene	4.041	41	2502	0.137	ppbv#	85
3) Dichlorodifluoromethane	4.098	85	9413	0.105	ppbv	99
4) Chloromethane	4.260	50	2947	0.135	ppbv	91
5) 1,2-Dichlorotetrafluor...	4.349	85	9094	0.099	ppbv	96
6) Vinyl Chloride	4.454	62	3348	0.116	ppbv	90
7) 1,3-Butadiene	4.592	54	2697	0.138	ppbv	89
8) Bromomethane	4.828	94	3591	0.099	ppbv#	84
9) Chloroethane	4.974	64	1640	0.123	ppbv	87
11) Ethanol	5.079	45	1809	0.269	ppbv#	91
12) Acetone	5.461	43	6187	0.179	ppbv	94
13) Trichlorofluoromethane	5.565	101	9252	0.097	ppbv	95
14) Isopropylalcohol	5.645	45	5475	0.135	ppbv#	79
15) Acrylonitrile	5.786	53	2249	0.119	ppbv	95
16) 1,1-Dichloroethene	6.031	61	4827	0.106	ppbv	96
17) Methylene Chloride	6.109	49	3986	0.143	ppbv	93
20) Carbon Disulfide	6.347	76	9669	0.104	ppbv	99
21) Trichlorotrifluoroethane	6.287	101	8008	0.099	ppbv	98
22) Trans-1,2-Dichloroethene	6.746	61	4435	0.101	ppbv	89
23) 1,1-Dichloroethane	6.883	63	5955	0.110	ppbv	95
24) Methyl tert-butyl ethe...	6.877	73	64	0.001	ppbv#	2
26) Methyl Ethyl Ketone	7.079	43	131	0.003	ppbv#	48
27) Cis-1,2-Dichloroethene	7.418	61	4221	0.101	ppbv	96
28) Hexane	7.537	57	4891	0.113	ppbv	90
29) Chloroform	7.600	83	7754	0.103	ppbv	97
30) Ethyl acetate	7.553	61	1360	0.103	ppbv#	87
31) Tetrahydrofuran	7.894	42	3433	0.126	ppbv	89
32) 1,2-Dichloroethane	8.076	62	4141	0.106	ppbv	97
33) 1,1,1-Trichloroethane	8.243	97	7687	0.101	ppbv	96
34) Benzene	8.522	78	12877	0.116	ppbv#	96
35) Carbon Tetrachloride	8.618	117	8639	0.098	ppbv	97
36) Cyclohexane	8.695	84	6386	0.144	ppbv#	57
38) 1,2-dichloropropane	9.007	63	4472	0.113	ppbv	95
39) Bromodichloromethane	9.111	83	8280	0.103	ppbv	94
40) Trichloroethene	9.137	130	6644	0.103	ppbv	99
42) 1,4-Dioxane	9.171	88	2644	0.106	ppbv#	70
44) Heptane	9.266	43	5245	0.110	ppbv	97
45) cis-1,3-Dichloropropene	9.618	75	6715	0.109	ppbv	91
46) 4-Methyl-2-pentanone(M...	9.547	43	142	0.002	ppbv#	41
47) trans-1,3-Dichloropropene	9.906	75	5797	0.102	ppbv	97
48) 1,1,2-Trichloroethane	10.026	97	4933	0.096	ppbv	97
49) Toluene	10.188	91	16671	0.110	ppbv	99
50) Dibromochloromethane	10.441	129	11091	0.100	ppbv#	95

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_06.D
 Acq On : 2 Mar 2023 7:28 pm
 Operator :
 Client ID : ICAL 0.1
 Lab ID : 0.10 ; to1503g
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 09:09:32 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:09:09 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.321	43	6212	0.109	ppbv	91
52)	1,2-Dibromoethane(EDB)	10.582	107	8663	0.099	ppbv	98
53)	Tetrachloroethene	10.821	166	10026	0.102	ppbv	93
55)	1,1,1,2-Tetrachloroethane	11.186	131	7580	0.107	ppbv	95
56)	Chlorobenzene	11.201	112	13387	0.105	ppbv#	41
57)	Ethylbenzene	11.390	91	18474	0.101	ppbv	95
58)	m,p-Xylene	11.489	91	29362	0.207	ppbv	99
59)	Bromoform	11.572	173	13396	0.099	ppbv	95
60)	Styrene	11.694	104	10944	0.094	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.754	83	12480	0.114	ppbv	90
62)	o-Xylene	11.754	91	14587	0.100	ppbv	97
65)	Isopropylbenzene	12.073	105	23200	0.109	ppbv	99
67)	4-Ethyltoluene	12.445	105	23520	0.101	ppbv	96
68)	1,3,5-Trimethylbenzene	12.483	105	17356	0.097	ppbv	98
69)	1,2,4-Trimethylbenzene	12.741	105	17367	0.091	ppbv#	95
71)	Benzyl chloride	12.840	91	13981	0.092	ppbv	97
72)	1,3-Dichlorobenzene	12.855	146	17222	0.104	ppbv	98
73)	1,4-Dichlorobenzene	12.893	146	14738	0.099	ppbv	98
74)	sec-Butylbenzene	12.900	105	25164	0.094	ppbv	96
75)	4-Isopropyltoluene	12.992	119	23753	0.091	ppbv	96
76)	1,2-Dichlorobenzene	13.113	146	15918	0.103	ppbv	99
77)	n-Butylbenzene	13.257	91	19583	0.093	ppbv	98
78)	1,2,4-Trichlorobenzene	14.313	180	14410	0.096	ppbv	98
80)	Hexachlorobutadiene	14.662	225	16576	0.108	ppbv	98
82)	1,2-Dichlorotetrafluor...	4.349	85	9094	0.091	ppbv	96
83)	Vinyl Chloride(sim)	4.465	62	3128	0.097	ppbv	95
84)	Bromomethane(sim)	4.822	94	3499m	0.088	ppbv	84
85)	Trichlorofluoromethane...	5.568	101	9129	0.092	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	4141	0.098	ppbv	97
87)	1,1,1-Trichloroethane(...	8.238	97	7768	0.095	ppbv#	96
88)	Benzene(sim)	8.522	78	12877	0.113	ppbv#	96
89)	Carbon Tetrachloride(sim)	8.612	117	8469	0.095	ppbv	99
90)	1,1-Dichloroethene(sim)	6.031	61	4827	0.094	ppbv	96
91)	Trichlorotrifluoroetha...	6.290	101	8150	0.095	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.746	61	4435	0.093	ppbv	89
93)	1,1-Dichloroethane(sim)	6.880	63	5690	0.094	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.418	61	4221	0.095	ppbv	96
95)	Chloroform(sim)	7.603	83	8190	0.096	ppbv	98
97)	1,2-dichloropropane(sim)	9.001	63	4325	0.096	ppbv	99
98)	Bromodichloromethane(sim)	9.111	83	8280	0.096	ppbv	93
99)	Trichloroethene(sim)	9.140	130	6381	0.095	ppbv	99
100)	1,4-Dioxane(sim)	9.171	88	2644	0.106	ppbv#	70
101)	cis-1,3-Dichloropropen...	9.620	75	6365	0.094	ppbv	99
102)	1,1,2-Trichloroethane(...	10.026	97	5172	0.091	ppbv	98
103)	Dibromochloromethane(sim)	10.437	129	10412	0.095	ppbv	97
104)	1,2-Dibromoethane(EDB)...	10.582	107	8663	0.094	ppbv	98
105)	Tetrachloroethene(sim)	10.824	166	9341	0.094	ppbv	99
107)	Bromoform(sim)	11.568	173	11681	0.094	ppbv	99
108)	m,p-Xylene(sim)	11.489	91	29362	0.197	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.750	83	11536	0.095	ppbv	98
112)	Benzyl chloride(sim)	12.840	91	14161	0.088	ppbv	97
113)	1,3-Dichlorobenzene(sim)	12.858	146	16144	0.093	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.893	146	14815	0.088	ppbv	99
115)	sec-Butylbenzene(sim)	12.736	105	18765	0.092	ppbv	99
116)	4-Isopropyltoluene(sim)	12.992	119	23753	0.090	ppbv	96

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_06.D
Acq On : 2 Mar 2023 7:28 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10 ; to1503g
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 03 09:09:32 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:09:09 2023
Response via : Initial Calibration

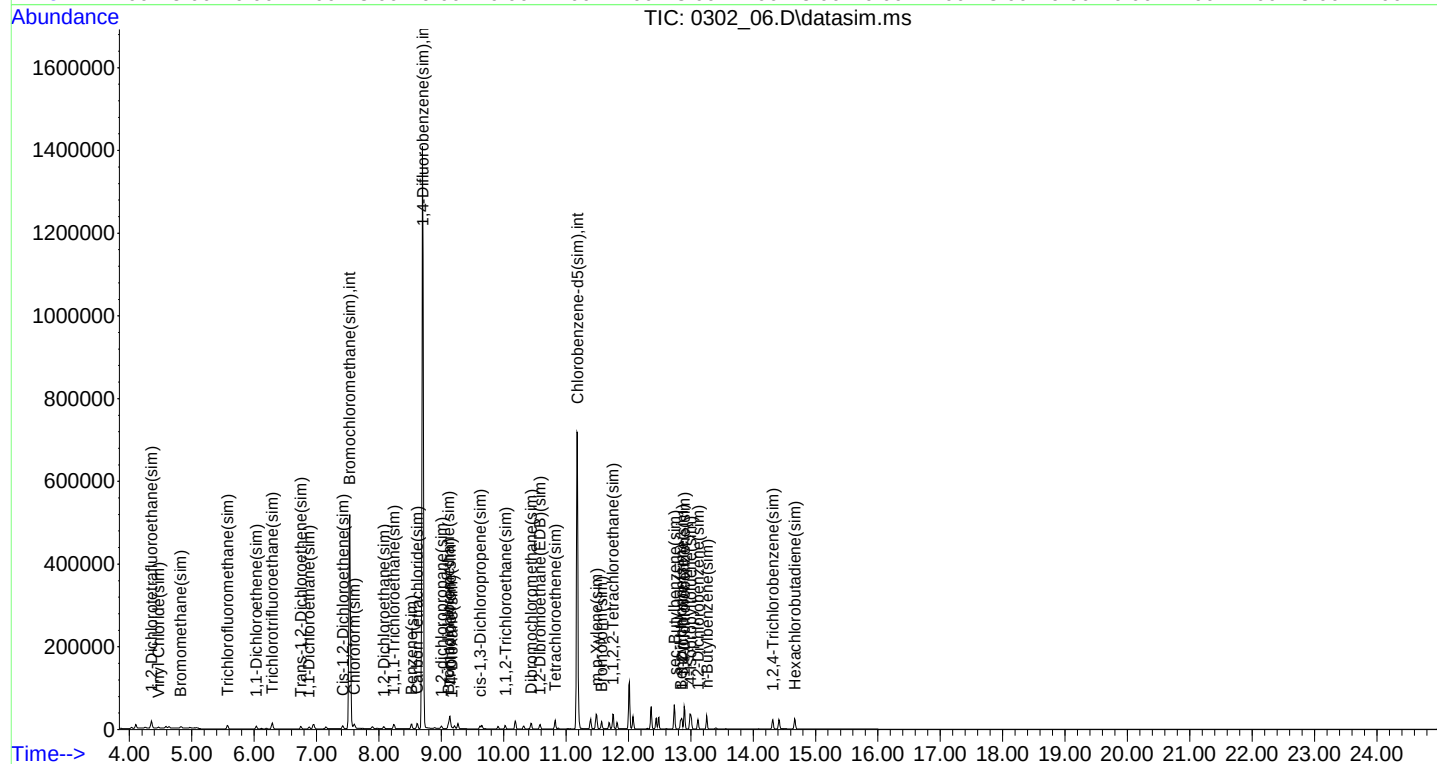
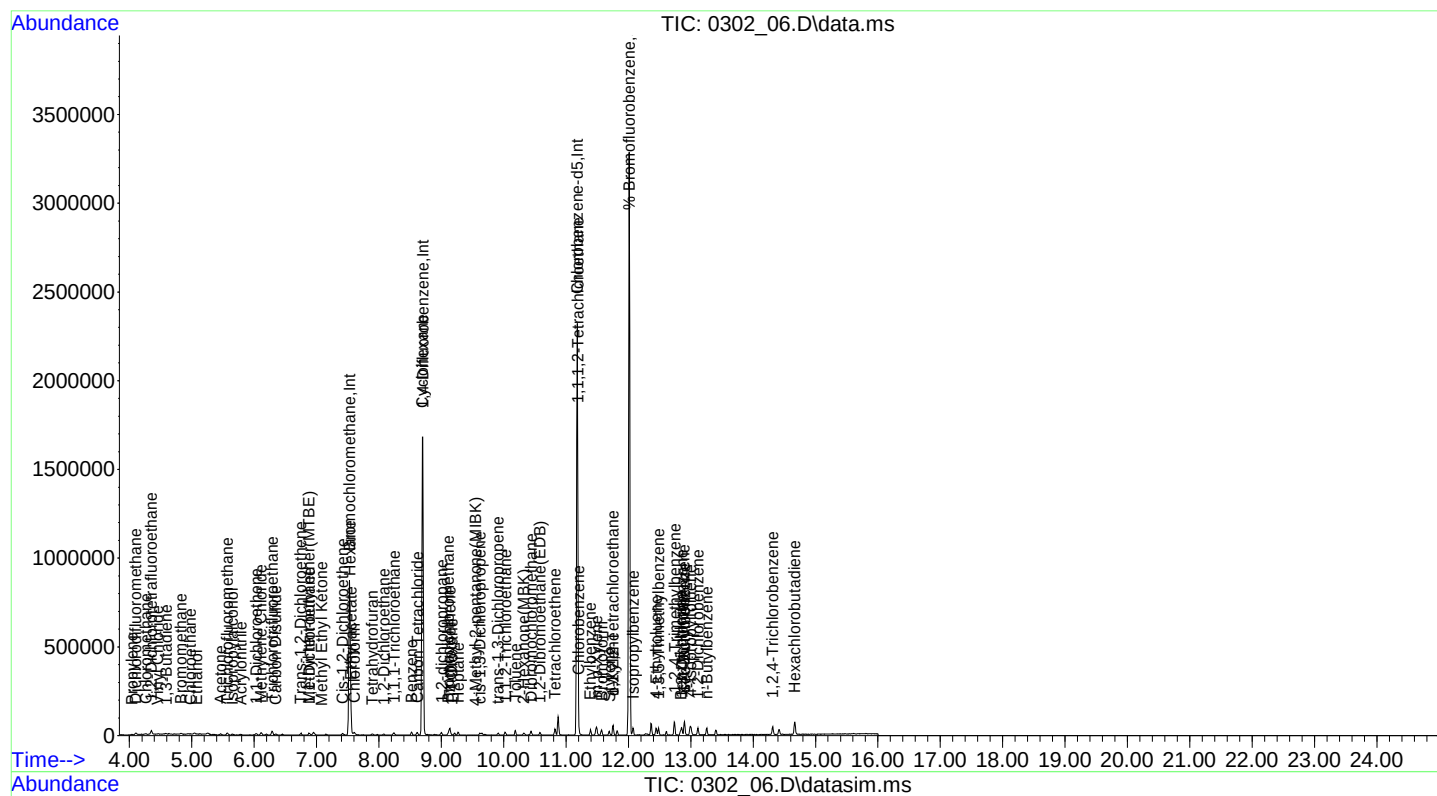
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	15529	0.091	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	19583	0.095	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.316	180	14310	0.088	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	14401	0.094	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_06.D
Acq On : 2 Mar 2023 7:28 pm
Operator :
Client ID : ICAL 0.1
Lab ID : 0.10 ; to1503q
ALS Vial : 6 Sample Multiplier: 1
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Quant Time: Mar 03 09:09:32 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Mar 03 08:09:09 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_07.D
 Acq On : 2 Mar 2023 8:05 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2 ; to1503g
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 09:00:56 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:32 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	370811	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1438296	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	596321	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	348572	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1438296	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	596321	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	888607	10.420	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.20%

Target Compounds						Qvalue
2) Propylene	4.033	41	3966	0.223	ppbv	93
3) Dichlorodifluoromethane	4.097	85	17874	0.204	ppbv	97
4) Chloromethane	4.260	50	5231	0.246	ppbv	97
5) 1,2-Dichlorotetrafluor...	4.349	85	18370	0.205	ppbv	92
6) Vinyl Chloride	4.454	62	5955	0.212	ppbv	88
7) 1,3-Butadiene	4.584	54	3802	0.200	ppbv	91
8) Bromomethane	4.819	94	7730	0.219	ppbv	97
9) Chloroethane	4.965	64	2952	0.228	ppbv	98
11) Ethanol	5.079	45	2501	0.382	ppbv#	72
12) Acetone	5.455	43	9855	0.293	ppbv	91
13) Trichlorofluoromethane	5.565	101	18593	0.200	ppbv	97
14) Isopropylalcohol	5.645	45	8905	0.226	ppbv#	85
15) Acrylonitrile	5.780	53	4365	0.238	ppbv	93
16) 1,1-Dichloroethene	6.031	61	9002	0.202	ppbv	97
17) Methylene Chloride	6.108	49	6479	0.239	ppbv	96
20) Carbon Disulfide	6.347	76	18982	0.211	ppbv	100
21) Trichlorotrifluoroethane	6.281	101	15944	0.203	ppbv	97
22) Trans-1,2-Dichloroethene	6.751	61	8776	0.205	ppbv	95
23) 1,1-Dichloroethane	6.882	63	10711	0.203	ppbv	94
24) Methyl tert-butyl ethe...	6.942	73	17682	0.208	ppbv	96
26) Methyl Ethyl Ketone	7.148	43	10048m	0.219	ppbv	48
27) Cis-1,2-Dichloroethene	7.418	61	8424	0.207	ppbv	98
28) Hexane	7.537	57	8071	0.191	ppbv#	85
29) Chloroform	7.600	83	15271	0.209	ppbv	99
30) Ethyl acetate	7.545	61	2609	0.203	ppbv	92
31) Tetrahydrofuran	7.894	42	5657	0.213	ppbv	93
32) 1,2-Dichloroethane	8.076	62	7716	0.202	ppbv	93
33) 1,1,1-Trichloroethane	8.243	97	14508	0.196	ppbv	96
34) Benzene	8.522	78	22109	0.204	ppbv	96
35) Carbon Tetrachloride	8.617	117	17296	0.201	ppbv	99
36) Cyclohexane	8.695	84	10477	0.243	ppbv#	76
38) 1,2-dichloropropane	8.998	63	8345	0.215	ppbv	92
39) Bromodichloromethane	9.111	83	16852	0.214	ppbv	95
40) Trichloroethene	9.137	130	12377	0.194	ppbv	96
42) 1,4-Dioxane	9.162	88	4570	0.187	ppbv#	72
44) Heptane	9.266	43	10564	0.226	ppbv	85
45) cis-1,3-Dichloropropene	9.617	75	11664	0.191	ppbv	94
46) 4-Methyl-2-pentanone(M...	9.653	43	11491	0.197	ppbv	99
47) trans-1,3-Dichloropropene	9.906	75	10937	0.196	ppbv	97
48) 1,1,2-Trichloroethane	10.026	97	10422	0.205	ppbv	99
49) Toluene	10.188	91	30490	0.204	ppbv	97
50) Dibromochloromethane	10.441	129	21890	0.200	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_07.D
 Acq On : 2 Mar 2023 8:05 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2 ; to1503g
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 09:00:56 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:32 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.321	43	11167	0.199	ppbv#	93
52)	1,2-Dibromoethane(EDB)	10.582	107	17472	0.202	ppbv	97
53)	Tetrachloroethene	10.821	166	18626	0.191	ppbv	97
55)	1,1,1,2-Tetrachloroethane	11.186	131	14581	0.210	ppbv	99
56)	Chlorobenzene	11.201	112	26217	0.209	ppbv#	70
57)	Ethylbenzene	11.390	91	36859	0.205	ppbv	99
58)	m,p-Xylene	11.481	91	57759	0.413	ppbv	98
59)	Bromoform	11.572	173	26928	0.203	ppbv	99
60)	Styrene	11.694	104	21630	0.190	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.754	83	22514	0.209	ppbv	94
62)	o-Xylene	11.754	91	27565	0.191	ppbv	98
65)	Isopropylbenzene	12.073	105	42128	0.201	ppbv	99
67)	4-Ethyltoluene	12.445	105	44590	0.195	ppbv#	94
68)	1,3,5-Trimethylbenzene	12.483	105	34216	0.194	ppbv	95
69)	1,2,4-Trimethylbenzene	12.741	105	35689	0.190	ppbv	100
71)	Benzyl chloride	12.840	91	28745	0.192	ppbv	98
72)	1,3-Dichlorobenzene	12.855	146	33288	0.205	ppbv	99
73)	1,4-Dichlorobenzene	12.893	146	29101	0.198	ppbv	99
74)	sec-Butylbenzene	12.900	105	50700	0.192	ppbv	98
75)	4-Isopropyltoluene	12.992	119	48122	0.187	ppbv	99
76)	1,2-Dichlorobenzene	13.113	146	31746	0.209	ppbv	98
77)	n-Butylbenzene	13.257	91	39809	0.193	ppbv	99
78)	1,2,4-Trichlorobenzene	14.313	180	29565	0.199	ppbv	95
80)	Hexachlorobutadiene	14.670	225	33037	0.218	ppbv	96
82)	1,2-Dichlorotetrafluor...	4.349	85	18370	0.188	ppbv	93
83)	Vinyl Chloride(sim)	4.465	62	5850	0.184	ppbv	97
84)	Bromomethane(sim)	4.819	94	7730	0.197	ppbv	97
85)	Trichlorofluoromethane...	5.568	101	18550	0.190	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	7716	0.186	ppbv	93
87)	1,1,1-Trichloroethane(...	8.238	97	14953	0.186	ppbv#	96
88)	Benzene(sim)	8.522	78	22109	0.197	ppbv	96
89)	Carbon Tetrachloride(sim)	8.612	117	16415	0.187	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	9002	0.179	ppbv	97
91)	Trichlorotrifluoroetha...	6.284	101	15807	0.187	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.751	61	8776	0.188	ppbv	95
93)	1,1-Dichloroethane(sim)	6.885	63	11020	0.186	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.418	61	8424	0.192	ppbv	97
95)	Chloroform(sim)	7.603	83	15137	0.181	ppbv	99
97)	1,2-dichloropropane(sim)	9.001	63	8192	0.184	ppbv	99
98)	Bromodichloromethane(sim)	9.111	83	16852	0.198	ppbv	94
99)	Trichloroethene(sim)	9.139	130	12152	0.184	ppbv	99
100)	1,4-Dioxane(sim)	9.162	88	4570	0.186	ppbv#	76
101)	cis-1,3-Dichloropropen...	9.620	75	12335	0.185	ppbv	100
102)	1,1,2-Trichloroethane(...	10.026	97	10422	0.187	ppbv	99
103)	Dibromochloromethane(sim)	10.437	129	20234	0.188	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.582	107	17543	0.193	ppbv	97
105)	Tetrachloroethene(sim)	10.824	166	17605	0.180	ppbv	99
107)	Bromoform(sim)	11.568	173	22703	0.186	ppbv	100
108)	m,p-Xylene(sim)	11.481	91	57759	0.394	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.750	83	22094	0.185	ppbv	100
112)	Benzyl chloride(sim)	12.840	91	28745	0.181	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.858	146	31469	0.184	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.893	146	29101	0.175	ppbv	99
115)	sec-Butylbenzene(sim)	12.736	105	37092	0.184	ppbv	99
116)	4-Isopropyltoluene(sim)	12.992	119	48122	0.185	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_07.D
Acq On : 2 Mar 2023 8:05 pm
Operator :
Client ID : ICAL 0.2
Lab ID : 0.2 ; to1503g
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 09:00:56 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:32 2023
Response via : Initial Calibration

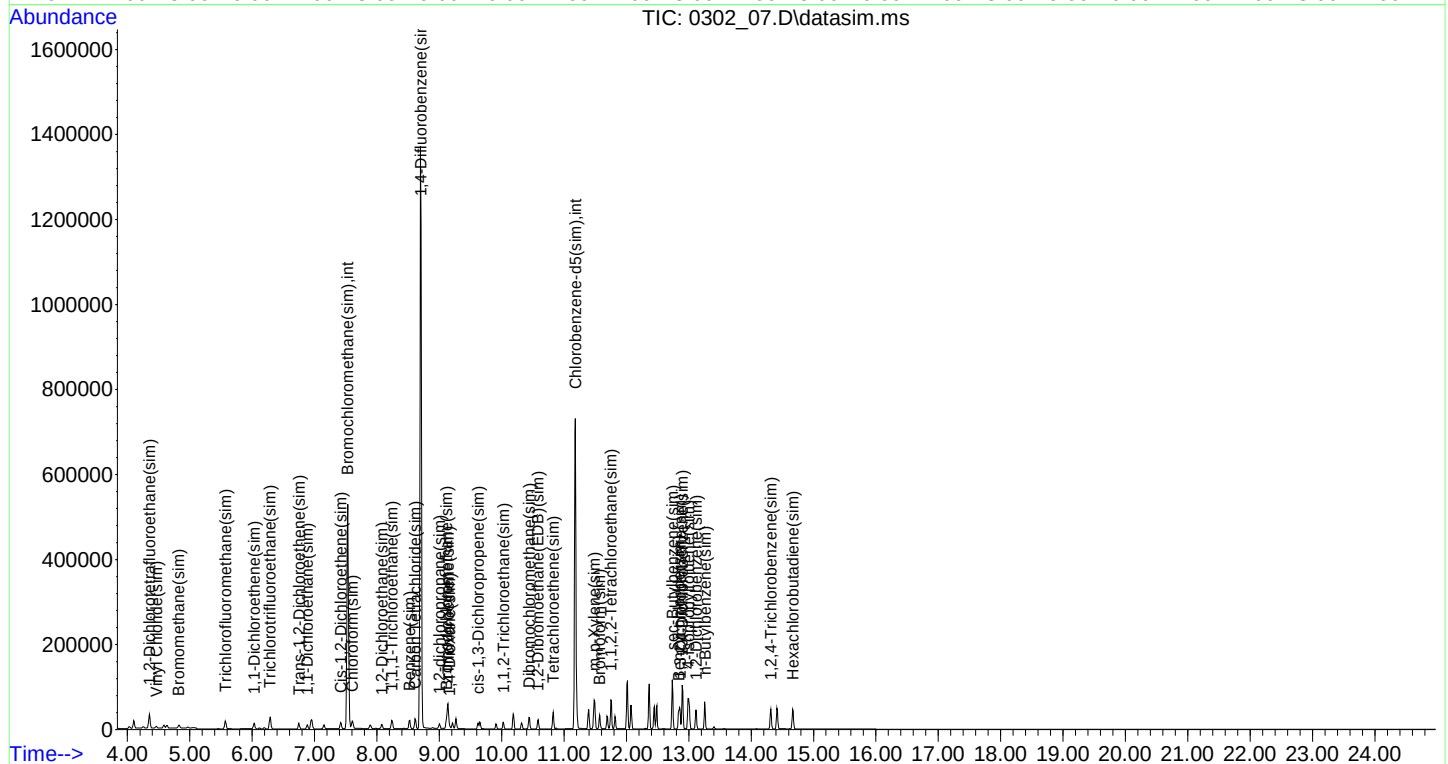
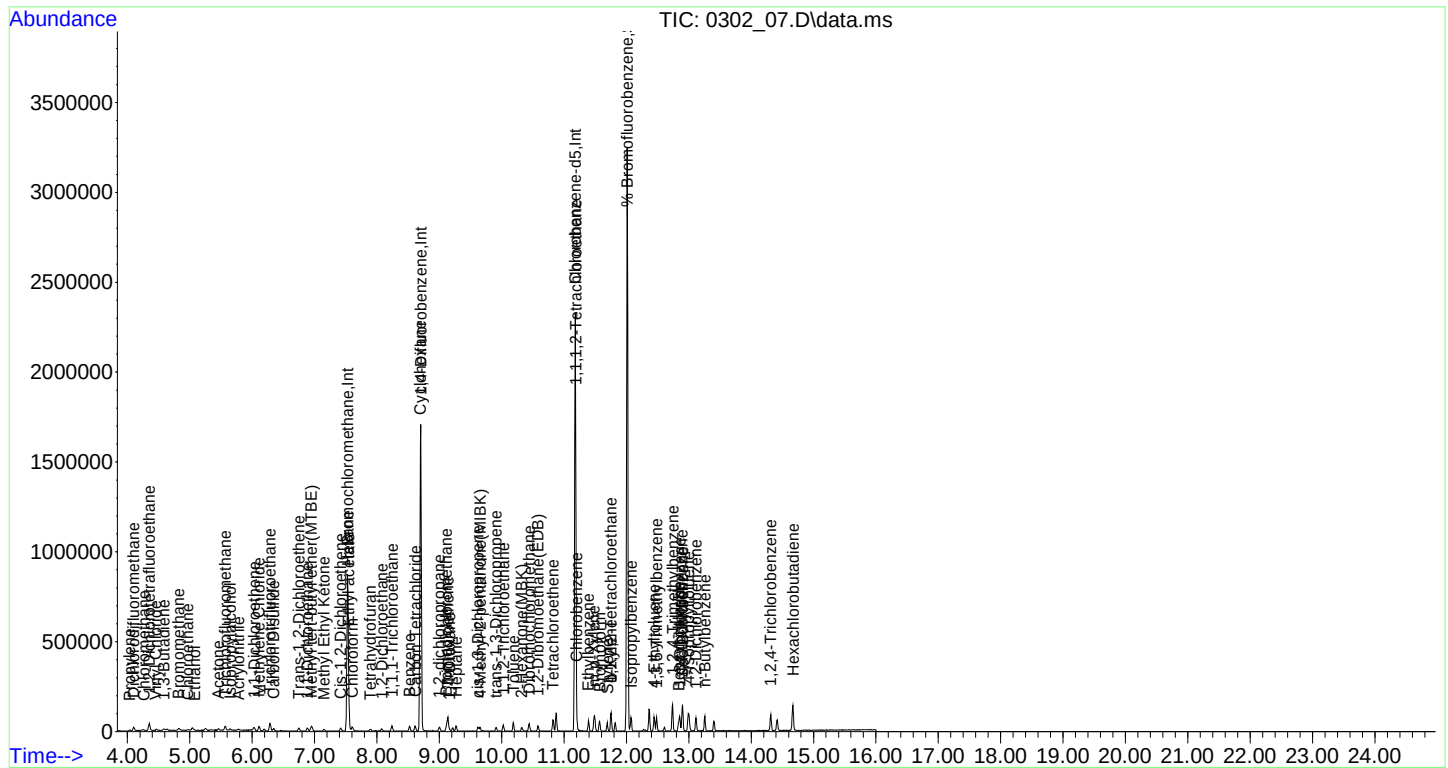
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	30395	0.181	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	39809	0.195	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.316	180	28932	0.182	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	28002	0.186	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_07.D
 Acq On : 2 Mar 2023 8:05 pm
 Operator :
 Client ID : ICAL 0.2
 Lab ID : 0.2 ; to1503g
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 03 09:00:56 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 07:59:32 2023
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_08.D
 Acq On : 2 Mar 2023 8:43 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.5 ; to1503g
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 09:01:33 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.537	130	376662	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1443066	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	597897	10.000	ng	0.00
81) Bromochloromethane(sim)	7.540	130	351998	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1443066	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	599317	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 12.012 95 906981 10.607 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 106.10%

Target Compounds						Qvalue
2) Propylene	4.041	41	9173	0.507	ppbv	99
3) Dichlorodifluoromethane	4.114	85	42848	0.482	ppbv	97
4) Chloromethane	4.268	50	10769	0.499	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.357	85	44480	0.489	ppbv	99
6) Vinyl Chloride	4.471	62	14048	0.493	ppbv	94
7) 1,3-Butadiene	4.600	54	9577	0.496	ppbv	95
8) Bromomethane	4.836	94	17529	0.490	ppbv	98
9) Chloroethane	4.982	64	6713	0.510	ppbv	95
11) Ethanol	5.087	45	3249	0.488	ppbv#	91
12) Acetone	5.467	43	19581	0.573	ppbv	95
13) Trichlorofluoromethane	5.578	101	46158	0.489	ppbv	100
14) Isopropylalcohol	5.657	45	17421	0.435	ppbv	96
15) Acrylonitrile	5.786	53	9385	0.503	ppbv	94
16) 1,1-Dichloroethene	6.037	61	22744	0.503	ppbv	95
17) Methylene Chloride	6.120	49	13980	0.507	ppbv	97
20) Carbon Disulfide	6.353	76	45602	0.498	ppbv	97
21) Trichlorotrifluoroethane	6.293	101	39922	0.499	ppbv	98
22) Trans-1,2-Dichloroethene	6.752	61	20825	0.480	ppbv	100
23) 1,1-Dichloroethane	6.888	63	26221	0.489	ppbv	99
24) Methyl tert-butyl ethe...	6.948	73	42406	0.492	ppbv	99
26) Methyl Ethyl Ketone	7.156	43	23212	0.498	ppbv	98
27) Cis-1,2-Dichloroethene	7.426	61	20205	0.490	ppbv	98
28) Hexane	7.545	57	21285	0.496	ppbv	98
29) Chloroform	7.608	83	36852	0.497	ppbv	97
30) Ethyl acetate	7.553	61	6482	0.496	ppbv#	82
31) Tetrahydrofuran	7.894	42	13124	0.487	ppbv	94
32) 1,2-Dichloroethane	8.084	62	18702	0.483	ppbv	98
33) 1,1,1-Trichloroethane	8.243	97	36420	0.484	ppbv	100
34) Benzene	8.522	78	54427	0.496	ppbv	98
35) Carbon Tetrachloride	8.618	117	41280	0.473	ppbv	98
36) Cyclohexane	8.695	84	21051	0.481	ppbv#	86
38) 1,2-dichloropropane	9.007	63	19470	0.499	ppbv	99
39) Bromodichloromethane	9.119	83	38946	0.492	ppbv	100
40) Trichloroethene	9.137	130	31640	0.494	ppbv	99
42) 1,4-Dioxane	9.163	88	10564	0.430	ppbv#	71
44) Heptane	9.275	43	23266	0.496	ppbv	94
45) cis-1,3-Dichloropropene	9.618	75	29731	0.486	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.653	43	28443	0.486	ppbv	93
47) trans-1,3-Dichloropropene	9.913	75	27079	0.485	ppbv	99
48) 1,1,2-Trichloroethane	10.026	97	24527	0.482	ppbv	97
49) Toluene	10.188	91	72901	0.487	ppbv	98
50) Dibromochloromethane	10.441	129	52968	0.482	ppbv	98

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_08.D
 Acq On : 2 Mar 2023 8:43 pm
 Operator :
 Client ID : ICAL 0.5
 Lab ID : 0.5 ; to1503g
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 09:01:33 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.321	43	24976	0.444	ppbv	96
52)	1,2-Dibromoethane(EDB)	10.582	107	41965	0.484	ppbv	100
53)	Tetrachloroethene	10.828	166	48371	0.496	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.193	131	35546	0.509	ppbv	98
56)	Chlorobenzene	11.201	112	64342	0.512	ppbv	88
57)	Ethylbenzene	11.390	91	89450	0.496	ppbv	99
58)	m,p-Xylene	11.489	91	141441	1.010	ppbv	98
59)	Bromoform	11.572	173	65682	0.494	ppbv	99
60)	Styrene	11.694	104	54569	0.477	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.754	83	56737	0.525	ppbv	95
62)	o-Xylene	11.754	91	73026	0.505	ppbv	99
65)	Isopropylbenzene	12.073	105	106128	0.505	ppbv	99
67)	4-Ethyltoluene	12.445	105	112968	0.493	ppbv	94
68)	1,3,5-Trimethylbenzene	12.483	105	85872	0.484	ppbv	95
69)	1,2,4-Trimethylbenzene	12.733	105	92663	0.492	ppbv	99
71)	Benzyl chloride	12.840	91	71138	0.474	ppbv	99
72)	1,3-Dichlorobenzene	12.855	146	83327	0.511	ppbv	99
73)	1,4-Dichlorobenzene	12.893	146	71250	0.482	ppbv	98
74)	sec-Butylbenzene	12.900	105	132287	0.499	ppbv	98
75)	4-Isopropyltoluene	12.992	119	126428	0.490	ppbv	99
76)	1,2-Dichlorobenzene	13.113	146	75631	0.497	ppbv	98
77)	n-Butylbenzene	13.257	91	98892	0.478	ppbv	99
78)	1,2,4-Trichlorobenzene	14.313	180	75831	0.509	ppbv	99
80)	Hexachlorobutadiene	14.670	225	80428	0.529	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.357	85	44480	0.450	ppbv	100
83)	Vinyl Chloride(sim)	4.474	62	14116	0.440	ppbv	100
84)	Bromomethane(sim)	4.836	94	17529	0.443	ppbv	98
85)	Trichlorofluoromethane...	5.581	101	45672	0.462	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.084	62	18702	0.446	ppbv	98
87)	1,1,1-Trichloroethane(...	8.246	97	37060	0.456	ppbv#	96
88)	Benzene(sim)	8.522	78	54427	0.481	ppbv	98
89)	Carbon Tetrachloride(sim)	8.620	117	40440	0.457	ppbv	99
90)	1,1-Dichloroethene(sim)	6.037	61	22744	0.448	ppbv	95
91)	Trichlorotrifluoroetha...	6.290	101	38848	0.456	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.752	61	20825	0.442	ppbv	100
93)	1,1-Dichloroethane(sim)	6.885	63	27252	0.455	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.426	61	20205	0.457	ppbv	98
95)	Chloroform(sim)	7.611	83	36768	0.435	ppbv	99
97)	1,2-dichloropropane(sim)	9.001	63	19854	0.444	ppbv	99
98)	Bromodichloromethane(sim)	9.119	83	38946	0.456	ppbv	99
99)	Trichloroethene(sim)	9.139	130	30181	0.456	ppbv	98
100)	1,4-Dioxane(sim)	9.163	88	10564	0.429	ppbv#	74
101)	cis-1,3-Dichloropropen...	9.620	75	30625	0.457	ppbv	99
102)	1,1,2-Trichloroethane(...	10.026	97	24527	0.438	ppbv	97
103)	Dibromochloromethane(sim)	10.444	129	50074	0.463	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.582	107	41965	0.461	ppbv	100
105)	Tetrachloroethene(sim)	10.824	166	43534	0.445	ppbv	99
107)	Bromoform(sim)	11.568	173	56698	0.461	ppbv	100
108)	m,p-Xylene(sim)	11.489	91	142402	0.966	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.750	83	54611	0.454	ppbv	100
112)	Benzyl chloride(sim)	12.840	91	71138	0.445	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.858	146	78948	0.458	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.893	146	71250	0.425	ppbv	98
115)	sec-Butylbenzene(sim)	12.736	105	95613	0.472	ppbv	99
116)	4-Isopropyltoluene(sim)	12.992	119	126428	0.484	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_08.D
Acq On : 2 Mar 2023 8:43 pm
Operator :
Client ID : ICAL 0.5
Lab ID : 0.5 ; to1503g
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 03 09:01:33 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:42 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	76277	0.452	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	98892	0.483	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.316	180	73400	0.459	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	69379	0.458	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_09.D
 Acq On : 2 Mar 2023 9:22 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ; to1503r
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 03 09:00:09 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	365962	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1419742	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	588461	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	341751	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1419742	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	588461	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 12.012 95 893834 10.621 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 106.20%

Target Compounds						Qvalue
2) Propylene	4.032	41	41981	2.388	ppbv	97
3) Dichlorodifluoromethane	4.106	85	210405	2.436	ppbv	98
4) Chloromethane	4.260	50	49725	2.372	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.357	85	217336	2.461	ppbv	98
6) Vinyl Chloride	4.462	62	67783	2.450	ppbv	100
7) 1,3-Butadiene	4.592	54	46626	2.484	ppbv	98
8) Bromomethane	4.827	94	84129	2.418	ppbv	100
9) Chloroethane	4.973	64	30794	2.409	ppbv	98
11) Ethanol	5.063	45	16600	2.567	ppbv	96
12) Acetone	5.449	43	81608	2.460	ppbv	99
13) Trichlorofluoromethane	5.571	101	224207	2.444	ppbv	99
14) Isopropylalcohol	5.633	45	97372	2.505	ppbv	96
15) Acrylonitrile	5.774	53	43525	2.402	ppbv	99
16) 1,1-Dichloroethene	6.031	61	106439	2.425	ppbv	99
17) Methylene Chloride	6.114	49	63341	2.366	ppbv	97
20) Carbon Disulfide	6.347	76	216098	2.429	ppbv	99
21) Trichlorotrifluoroethane	6.287	101	192233	2.474	ppbv	99
22) Trans-1,2-Dichloroethene	6.751	61	103330	2.449	ppbv	98
23) 1,1-Dichloroethane	6.882	63	127753	2.450	ppbv	99
24) Methyl tert-butyl ethe...	6.930	73	203799	2.434	ppbv	99
26) Methyl Ethyl Ketone	7.140	43	110862	2.450	ppbv	97
27) Cis-1,2-Dichloroethene	7.418	61	95986	2.394	ppbv	100
28) Hexane	7.537	57	102835	2.467	ppbv	96
29) Chloroform	7.608	83	173695	2.409	ppbv	99
30) Ethyl acetate	7.537	61	31235	2.460	ppbv	99
31) Tetrahydrofuran	7.886	42	64371	2.456	ppbv	98
32) 1,2-Dichloroethane	8.076	62	91656	2.434	ppbv	99
33) 1,1,1-Trichloroethane	8.243	97	180721	2.472	ppbv	100
34) Benzene	8.522	78	263001	2.465	ppbv	100
35) Carbon Tetrachloride	8.617	117	207869	2.453	ppbv	100
36) Cyclohexane	8.695	84	101905	2.397	ppbv	95
38) 1,2-dichloropropane	9.007	63	93758	2.443	ppbv	99
39) Bromodichloromethane	9.119	83	190152	2.444	ppbv	99
40) Trichloroethene	9.136	130	157566	2.501	ppbv	99
42) 1,4-Dioxane	9.145	88	62359	2.582	ppbv	95
44) Heptane	9.266	43	111603	2.417	ppbv	97
45) cis-1,3-Dichloropropene	9.617	75	147243	2.449	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.639	43	146865	2.550	ppbv	98
47) trans-1,3-Dichloropropene	9.906	75	131771	2.397	ppbv	100
48) 1,1,2-Trichloroethane	10.026	97	122446	2.445	ppbv	99
49) Toluene	10.188	91	359700	2.441	ppbv	99
50) Dibromochloromethane	10.441	129	265297	2.453	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_09.D
 Acq On : 2 Mar 2023 9:22 pm
 Operator :
 Client ID : ICAL 2.5
 Lab ID : 2.5 ; to1503r
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 03 09:00:09 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.314	43	136124	2.457	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.582	107	209696	2.458	ppbv	100
53)	Tetrachloroethene	10.828	166	237468	2.473	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.193	131	175839	2.560	ppbv	100
56)	Chlorobenzene	11.201	112	313026	2.531	ppbv	97
57)	Ethylbenzene	11.390	91	447117	2.519	ppbv	99
58)	m,p-Xylene	11.489	91	725044	5.260	ppbv	99
59)	Bromoform	11.572	173	332101	2.536	ppbv	99
60)	Styrene	11.693	104	289130	2.568	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.754	83	270300	2.540	ppbv	98
62)	o-Xylene	11.754	91	371135	2.608	ppbv	98
65)	Isopropylbenzene	12.073	105	534760	2.585	ppbv	99
67)	4-Ethyltoluene	12.445	105	582688	2.586	ppbv	96
68)	1,3,5-Trimethylbenzene	12.483	105	456139	2.614	ppbv	93
69)	1,2,4-Trimethylbenzene	12.741	105	484271	2.611	ppbv	98
71)	Benzyl chloride	12.840	91	374868	2.540	ppbv	99
72)	1,3-Dichlorobenzene	12.855	146	414157	2.579	ppbv	99
73)	1,4-Dichlorobenzene	12.893	146	372621	2.563	ppbv	99
74)	sec-Butylbenzene	12.900	105	683244	2.620	ppbv	99
75)	4-Isopropyltoluene	12.991	119	661336	2.602	ppbv	99
76)	1,2-Dichlorobenzene	13.113	146	378144	2.525	ppbv	99
77)	n-Butylbenzene	13.257	91	524980	2.577	ppbv	99
78)	1,2,4-Trichlorobenzene	14.313	180	383368	2.616	ppbv	100
80)	Hexachlorobutadiene	14.670	225	389401	2.602	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.357	85	217233	2.266	ppbv	98
83)	Vinyl Chloride(sim)	4.465	62	68969	2.215	ppbv	100
84)	Bromomethane(sim)	4.827	94	84129	2.189	ppbv	100
85)	Trichlorofluoromethane...	5.574	101	225202	2.349	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	91656	2.251	ppbv	99
87)	1,1,1-Trichloroethane(...	8.245	97	188027	2.382	ppbv#	99
88)	Benzene(sim)	8.522	78	263001	2.394	ppbv	100
89)	Carbon Tetrachloride(sim)	8.612	117	200338	2.334	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	106439	2.159	ppbv	99
91)	Trichlorotrifluoroetha...	6.290	101	189071	2.284	ppbv#	99
92)	Trans-1,2-Dichloroethe...	6.751	61	103330	2.261	ppbv	98
93)	1,1-Dichloroethane(sim)	6.885	63	133322	2.295	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.418	61	95986	2.237	ppbv	100
95)	Chloroform(sim)	7.611	83	177905	2.170	ppbv	99
97)	1,2-dichloropropane(sim)	9.001	63	96677	2.198	ppbv	99
98)	Bromodichloromethane(sim)	9.119	83	190152	2.264	ppbv	99
99)	Trichloroethene(sim)	9.139	130	147842	2.273	ppbv	99
100)	1,4-Dioxane(sim)	9.145	88	62359	2.572	ppbv	95
101)	cis-1,3-Dichloropropen...	9.620	75	153183	2.323	ppbv	99
102)	1,1,2-Trichloroethane(...	10.026	97	122446	2.225	ppbv	99
103)	Dibromochloromethane(sim)	10.444	129	249665	2.345	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.582	107	209696	2.343	ppbv	100
105)	Tetrachloroethene(sim)	10.824	166	215458	2.237	ppbv	99
107)	Bromoform(sim)	11.567	173	285651	2.367	ppbv	100
108)	m,p-Xylene(sim)	11.489	91	728475	5.032	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	273776	2.318	ppbv	100
112)	Benzyl chloride(sim)	12.840	91	374868	2.387	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.858	146	397855	2.353	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.893	146	372430	2.265	ppbv	99
115)	sec-Butylbenzene(sim)	12.736	105	506848	2.550	ppbv	99
116)	4-Isopropyltoluene(sim)	12.991	119	661357	2.577	ppbv	99

Quantitation Report (RF) (QT Reviewed)

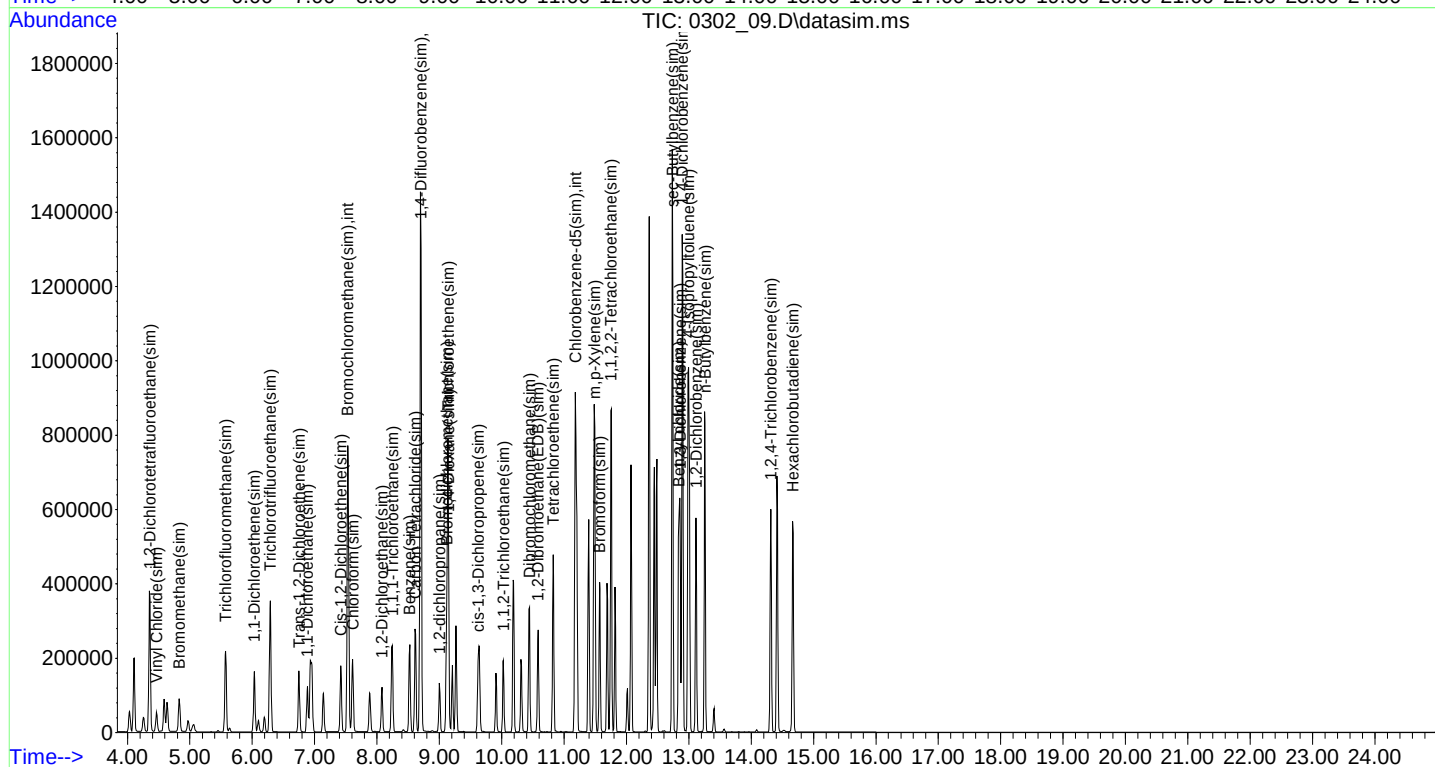
Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_09.D
Acq On : 2 Mar 2023 9:22 pm
Operator :
Client ID : ICAL 2.5
Lab ID : 2.5 ; to1503r
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Mar 03 09:00:09 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:42 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	385766	2.330	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	524980	2.609	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.316	180	373875	2.380	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	345266	2.322	ppbv	100

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


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Data Path : H:\AIR2023\CHEM39\03MAR\02A\  
Data File : 0302_09.D  
Acq On : 2 Mar 2023 9:22 pm  
Operator :  
Client ID : ICAL 2.5  
Lab ID : 2.5 ; to1503r  
ALS Vial : 9 Sample Multiplier: 1
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[illegible]

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_10.D
 Acq On : 2 Mar 2023 9:59 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 : to1503s
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 03 09:00:14 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	357919	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1396069	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	586980	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	334803	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1396069	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	587185	10.000	ng	0.00

System Monitoring Compounds
 63) % Bromofluorobenzene 12.012 95 883673 10.527 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 105.30%

Target Compounds					Qvalue
2) Propylene	4.033	41	84561	4.918	ppbv 99
3) Dichlorodifluoromethane	4.097	85	442189	5.234	ppbv 99
4) Chloromethane	4.252	50	101515	4.951	ppbv 100
5) 1,2-Dichlorotetrafluor...	4.349	85	440644	5.101	ppbv 99
6) Vinyl Chloride	4.462	62	135808	5.020	ppbv 99
7) 1,3-Butadiene	4.584	54	91342	4.975	ppbv 98
8) Bromomethane	4.828	94	169760	4.990	ppbv 98
9) Chloroethane	4.965	64	62551	5.003	ppbv 99
11) Ethanol	5.055	45	30898	4.885	ppbv# 94
12) Acetone	5.443	43	165512	5.101	ppbv 99
13) Trichlorofluoromethane	5.565	101	464634	5.179	ppbv 98
14) Isopropylalcohol	5.627	45	193922	5.100	ppbv 100
15) Acrylonitrile	5.774	53	85477	4.823	ppbv 97
16) 1,1-Dichloroethene	6.031	61	221803	5.167	ppbv 98
17) Methylene Chloride	6.108	49	130844	4.998	ppbv 96
20) Carbon Disulfide	6.341	76	443622	5.098	ppbv 100
21) Trichlorotrifluoroethane	6.281	101	393179	5.175	ppbv 100
22) Trans-1,2-Dichloroethene	6.745	61	211701	5.130	ppbv 98
23) 1,1-Dichloroethane	6.882	63	265357	5.203	ppbv 99
24) Methyl tert-butyl ethe...	6.924	73	420277	5.133	ppbv 99
26) Methyl Ethyl Ketone	7.132	43	218123	4.928	ppbv 99
27) Cis-1,2-Dichloroethene	7.418	61	199612	5.091	ppbv 100
28) Hexane	7.537	57	214271	5.256	ppbv 98
29) Chloroform	7.608	83	361637	5.129	ppbv 99
30) Ethyl acetate	7.537	61	63867	5.143	ppbv 99
31) Tetrahydrofuran	7.878	42	132213	5.159	ppbv 97
32) 1,2-Dichloroethane	8.076	62	190549	5.174	ppbv 99
33) 1,1,1-Trichloroethane	8.243	97	372184	5.205	ppbv 100
34) Benzene	8.522	78	538088	5.156	ppbv 99
35) Carbon Tetrachloride	8.609	117	430063	5.190	ppbv 100
36) Cyclohexane	8.695	84	204408	4.917	ppbv 96
38) 1,2-dichloropropane	9.007	63	190534	5.049	ppbv 97
39) Bromodichloromethane	9.119	83	393390	5.141	ppbv 99
40) Trichloroethene	9.137	130	319630	5.160	ppbv 99
42) 1,4-Dioxane	9.137	88	123482	5.200	ppbv 97
44) Heptane	9.266	43	229611	5.056	ppbv 99
45) cis-1,3-Dichloropropene	9.617	75	306101	5.177	ppbv 99
46) 4-Methyl-2-pentanone(M...	9.632	43	292875	5.171	ppbv 99
47) trans-1,3-Dichloropropene	9.906	75	278109	5.144	ppbv 99
48) 1,1,2-Trichloroethane	10.026	97	251222	5.102	ppbv 99
49) Toluene	10.188	91	747816	5.161	ppbv 99
50) Dibromochloromethane	10.441	129	553668	5.205	ppbv 99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_10.D
 Acq On : 2 Mar 2023 9:59 pm
 Operator :
 Client ID : ICAL 5
 Lab ID : 5.0 : to1503s
 ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 03 09:00:14 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.307	43	282117	5.178	ppbv	100
52)	1,2-Dibromoethane(EDB)	10.582	107	433829	5.172	ppbv	100
53)	Tetrachloroethene	10.828	166	490333	5.194	ppbv	100
55)	1,1,1,2-Tetrachloroethane	11.186	131	357370	5.217	ppbv	99
56)	Chlorobenzene	11.201	112	651597	5.283	ppbv	98
57)	Ethylbenzene	11.390	91	939836	5.307	ppbv	100
58)	m,p-Xylene	11.489	91	1512120	10.997	ppbv	99
59)	Bromoform	11.572	173	689947	5.282	ppbv	99
60)	Styrene	11.694	104	602434	5.365	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.754	83	559630	5.271	ppbv	99
62)	o-Xylene	11.754	91	769907	5.423	ppbv	99
65)	Isopropylbenzene	12.073	105	1094326	5.303	ppbv	99
67)	4-Ethyltoluene	12.445	105	1228151	5.465	ppbv	96
68)	1,3,5-Trimethylbenzene	12.483	105	925284	5.316	ppbv	95
69)	1,2,4-Trimethylbenzene	12.733	105	992234	5.363	ppbv	100
71)	Benzyl chloride	12.840	91	784793	5.331	ppbv	99
72)	1,3-Dichlorobenzene	12.855	146	847270	5.288	ppbv	100
73)	1,4-Dichlorobenzene	12.893	146	760201	5.243	ppbv	100
74)	sec-Butylbenzene	12.900	105	1412134	5.428	ppbv	99
75)	4-Isopropyltoluene	12.992	119	1379437	5.441	ppbv	99
76)	1,2-Dichlorobenzene	13.113	146	773826	5.180	ppbv	99
77)	n-Butylbenzene	13.257	91	1096116	5.395	ppbv	99
78)	1,2,4-Trichlorobenzene	14.313	180	689926	4.720	ppbv	99
80)	Hexachlorobutadiene	14.670	225	705638	4.727	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.349	85	440463	4.690	ppbv	99
83)	Vinyl Chloride(sim)	4.465	62	141061	4.624	ppbv	100
84)	Bromomethane(sim)	4.828	94	169760	4.508	ppbv	98
85)	Trichlorofluoromethane...	5.568	101	464270	4.943	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	190549	4.776	ppbv	99
87)	1,1,1-Trichloroethane(...	8.238	97	387370	5.009	ppbv#	99
88)	Benzene(sim)	8.522	78	538088	5.000	ppbv	99
89)	Carbon Tetrachloride(sim)	8.612	117	415961	4.946	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	221803	4.592	ppbv	98
91)	Trichlorotrifluoroetha...	6.284	101	387197	4.775	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.745	61	211701	4.728	ppbv	98
93)	1,1-Dichloroethane(sim)	6.879	63	273250	4.801	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.418	61	199612	4.748	ppbv	100
95)	Chloroform(sim)	7.603	83	365878	4.556	ppbv	99
97)	1,2-dichloropropane(sim)	9.001	63	198119	4.581	ppbv	98
98)	Bromodichloromethane(sim)	9.119	83	393390	4.764	ppbv	99
99)	Trichloroethene(sim)	9.139	130	305445	4.775	ppbv	99
100)	1,4-Dioxane(sim)	9.137	88	123482	5.180	ppbv	97
101)	cis-1,3-Dichloropropen...	9.620	75	318119	4.907	ppbv	99
102)	1,1,2-Trichloroethane(...	10.026	97	251222	4.642	ppbv	99
103)	Dibromochloromethane(sim)	10.437	129	519649	4.963	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.582	107	433864	4.930	ppbv	100
105)	Tetrachloroethene(sim)	10.824	166	443928	4.688	ppbv	99
107)	Bromoform(sim)	11.568	173	593436	4.928	ppbv	100
108)	m,p-Xylene(sim)	11.489	91	1515180	10.489	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.750	83	557395	4.729	ppbv	100
112)	Benzyl chloride(sim)	12.840	91	784793	5.008	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.858	146	815784	4.835	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.893	146	759698	4.630	ppbv	100
115)	sec-Butylbenzene(sim)	12.736	105	1044456	5.267	ppbv	99
116)	4-Isopropyltoluene(sim)	12.992	119	1379437	5.387	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_10.D
Acq On : 2 Mar 2023 9:59 pm
Operator :
Client ID : ICAL 5
Lab ID : 5.0 ; to1503s
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 03 09:00:14 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:42 2023
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.116	146	786634	4.762	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	1095840	5.458	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.316	180	670872	4.279	ppbv	100
121]	Hexachlorobutadiene(sim)	14.665	225	616918	4.157	ppbv	100

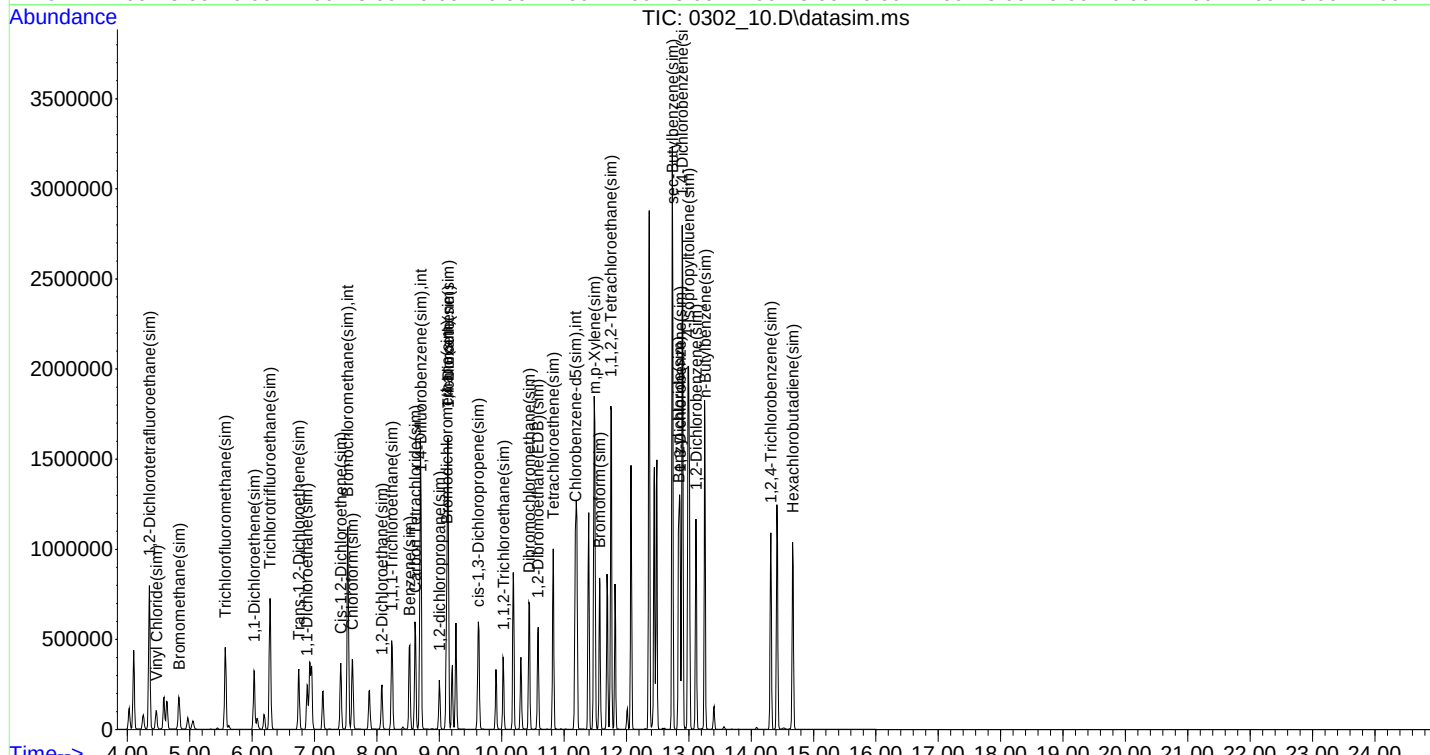
(#)out of range (m>manual integration reviewed by analyst (+)signals summed

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Data Path   : H:\AIR2023\CHEM39\03MAR\02A\
Data File   : 0302_10.D
Acq On      : 2 Mar 2023    9:59 pm
Operator    :
Client ID   : ICAL 5
Lab ID      : 5.0 ; to1503s
ALS Vial    : 10 Sample Multiplier: 1

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Quant Time: Mar 03 09:00:14 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:42 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_11.D
 Acq On : 2 Mar 2023 11:36 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ; to1503s
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 03 09:00:18 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	368496	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.703	114	1449187	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	662379	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	346791	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.703	114	1449187	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	662171	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	947260	10.000	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.00%

Target Compounds						Qvalue
2) Propylene	4.033	41	425141	24.017	ppbv	99
3) Dichlorodifluoromethane	4.106	85	2172611	24.976	ppbv	100
4) Chloromethane	4.260	50	492297	23.323	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.357	85	2170178	24.401	ppbv	99
6) Vinyl Chloride	4.471	62	679364	24.390	ppbv	100
7) 1,3-Butadiene	4.592	54	464177	24.557	ppbv	100
8) Bromomethane	4.828	94	844085	24.098	ppbv	100
9) Chloroethane	4.974	64	309774	24.065	ppbv	98
11) Ethanol	5.055	45	149120	22.898	ppbv	97
12) Acetone	5.437	43	809412	24.229	ppbv	100
13) Trichlorofluoromethane	5.572	101	2295730	24.856	ppbv	99
14) Isopropylalcohol	5.615	45	967773	24.721	ppbv	99
15) Acrylonitrile	5.774	53	435152	23.849	ppbv	99
16) 1,1-Dichloroethene	6.031	61	1088615	24.632	ppbv	99
17) Methylene Chloride	6.109	49	636446	23.614	ppbv	97
20) Carbon Disulfide	6.347	76	2196052	24.511	ppbv	100
21) Trichlorotrifluoroethane	6.287	101	1916367	24.498	ppbv	99
22) Trans-1,2-Dichloroethene	6.746	61	1059171	24.930	ppbv	98
23) 1,1-Dichloroethane	6.883	63	1299840	24.757	ppbv	99
24) Methyl tert-butyl ethe...	6.912	73	2084520	24.729	ppbv	100
26) Methyl Ethyl Ketone	7.125	43	1117699	24.528	ppbv	98
27) Cis-1,2-Dichloroethene	7.418	61	1001236	24.805	ppbv	99
28) Hexane	7.537	57	1048998	24.993	ppbv	98
29) Chloroform	7.608	83	1786792	24.615	ppbv	100
30) Ethyl acetate	7.529	61	309691	24.222	ppbv	98
31) Tetrahydrofuran	7.870	42	652752	24.738	ppbv	99
32) 1,2-Dichloroethane	8.076	62	951197	25.085	ppbv	100
33) 1,1,1-Trichloroethane	8.243	97	1847022	25.092	ppbv	99
34) Benzene	8.522	78	2672083	24.868	ppbv	100
35) Carbon Tetrachloride	8.617	117	2137325	25.053	ppbv	100
36) Cyclohexane	8.695	84	1025746	23.964	ppbv	99
38) 1,2-dichloropropane	9.006	63	952718	24.321	ppbv	99
39) Bromodichloromethane	9.119	83	1928754	24.282	ppbv	100
40) Trichloroethene	9.136	130	1580903	24.585	ppbv	100
42) 1,4-Dioxane	9.127	88	625941	25.394	ppbv	98
44) Heptane	9.266	43	1144157	24.273	ppbv	97
45) cis-1,3-Dichloropropene	9.617	75	1553838	25.319	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.624	43	1447597	24.622	ppbv	99
47) trans-1,3-Dichloropropene	9.905	75	1430742	25.495	ppbv	99
48) 1,1,2-Trichloroethane	10.025	97	1263929	24.727	ppbv	99
49) Toluene	10.187	91	3726276	24.774	ppbv	99
50) Dibromochloromethane	10.440	129	2780950	25.186	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_11.D
 Acq On : 2 Mar 2023 11:36 pm
 Operator :
 Client ID : ICAL 25
 Lab ID : 25 ; to1503s
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 03 09:00:18 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 07:59:42 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	1442465	25.507	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.581	107	2174450	24.972	ppbv	100
53)	Tetrachloroethene	10.827	166	2446327	24.962	ppbv	100
55)	1,1,1,2-Tetrachloroethane	11.192	131	1795579	23.228	ppbv	99
56)	Chlorobenzene	11.208	112	3232572	23.225	ppbv	99
57)	Ethylbenzene	11.390	91	4768603	23.864	ppbv	100
58)	m,p-Xylene	11.488	91	7537035	48.576	ppbv	99
59)	Bromoform	11.572	173	3522076	23.893	ppbv	100
60)	Styrene	11.693	104	3129750	24.697	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.754	83	2743007	22.896	ppbv	99
62)	o-Xylene	11.754	91	3795454	23.692	ppbv	100
65)	Isopropylbenzene	12.072	105	5482739	23.545	ppbv	100
67)	4-Ethyltoluene	12.444	105	6083401	23.987	ppbv	96
68)	1,3,5-Trimethylbenzene	12.482	105	4718823	24.025	ppbv	95
69)	1,2,4-Trimethylbenzene	12.740	105	5044002	24.160	ppbv	99
71)	Benzyl chloride	12.839	91	4148750	24.974	ppbv	98
72)	1,3-Dichlorobenzene	12.854	146	4228130	23.386	ppbv	100
73)	1,4-Dichlorobenzene	12.900	146	3927031	24.000	ppbv	99
74)	sec-Butylbenzene	12.900	105	7039689	23.978	ppbv	100
75)	4-Isopropyltoluene	12.991	119	6917114	24.178	ppbv	100
76)	1,2-Dichlorobenzene	13.112	146	3995086	23.699	ppbv	100
77)	n-Butylbenzene	13.257	91	5588706	24.375	ppbv	100
78)	1,2,4-Trichlorobenzene	14.312	180	3854951	23.370	ppbv	100
80)	Hexachlorobutadiene	14.669	225	3805809	22.590	ppbv	100
82)	1,2-Dichlorotetrafluor...	4.357	85	2167991	22.286	ppbv	99
83)	Vinyl Chloride(sim)	4.465	62	703342	22.259	ppbv	100
84)	Bromomethane(sim)	4.828	94	844085	21.640	ppbv	100
85)	Trichlorofluoromethane...	5.574	101	2287608	23.512	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	951197	23.018	ppbv	100
87)	1,1,1-Trichloroethane(...	8.238	97	1927346	24.063	ppbv#	100
88)	Benzene(sim)	8.522	78	2672174	23.970	ppbv	100
89)	Carbon Tetrachloride(sim)	8.611	117	2059128	23.636	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	1088615	21.760	ppbv	99
91)	Trichlorotrifluoroetha...	6.290	101	1885346	22.449	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.746	61	1059171	22.839	ppbv	98
93)	1,1-Dichloroethane(sim)	6.885	63	1343326	22.784	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.418	61	1001236	22.994	ppbv	99
95)	Chloroform(sim)	7.611	83	1801661	21.657	ppbv	100
97)	1,2-dichloropropane(sim)	9.000	63	986274	21.970	ppbv	99
98)	Bromodichloromethane(sim)	9.119	83	1928754	22.500	ppbv	100
99)	Trichloroethene(sim)	9.139	130	1505643	22.675	ppbv	100
100)	1,4-Dioxane(sim)	9.127	88	625941	25.297	ppbv	98
101)	cis-1,3-Dichloropropen...	9.620	75	1604701	23.845	ppbv	100
102)	1,1,2-Trichloroethane(...	10.025	97	1263929	22.497	ppbv	99
103)	Dibromochloromethane(sim)	10.443	129	2615016	24.058	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.581	107	2174450	23.802	ppbv	100
105)	Tetrachloroethene(sim)	10.823	166	2224273	22.629	ppbv	100
107)	Bromoform(sim)	11.575	173	3050845	22.464	ppbv	100
108)	m,p-Xylene(sim)	11.488	91	7542022	46.298	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	2729127	20.531	ppbv	100
112)	Benzyl chloride(sim)	12.839	91	4148750	23.476	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.857	146	4373225	22.983	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.900	146	3927031	21.223	ppbv	99
115)	sec-Butylbenzene(sim)	12.736	105	5179712	23.163	ppbv	99
116)	4-Isopropyltoluene(sim)	12.991	119	6917395	23.953	ppbv	100

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_11.D
Acq On : 2 Mar 2023 11:36 pm
Operator :
Client ID : ICAL 25
Lab ID : 25 ; to1503s
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 03 09:00:18 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:42 2023
Response via : Initial Calibration

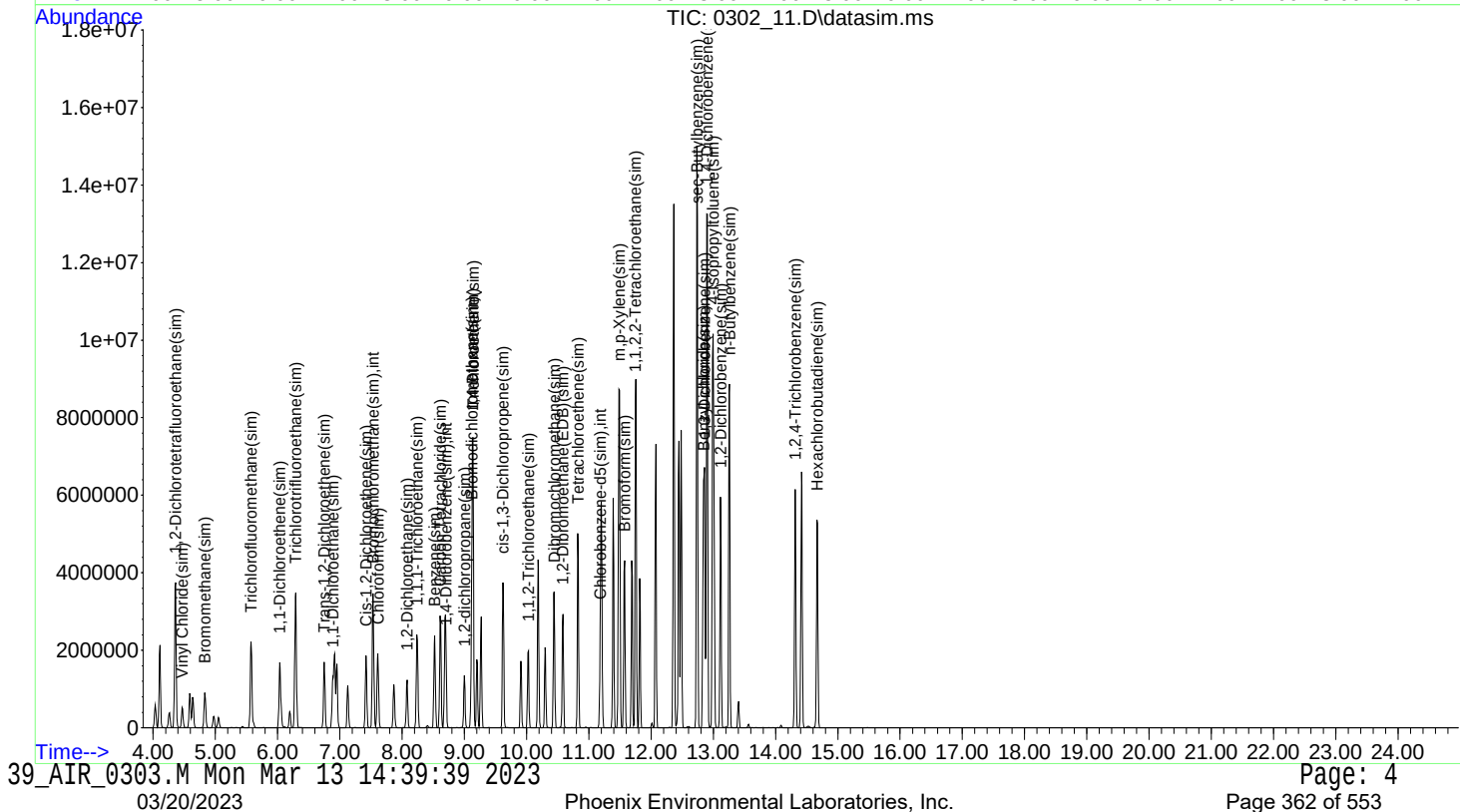
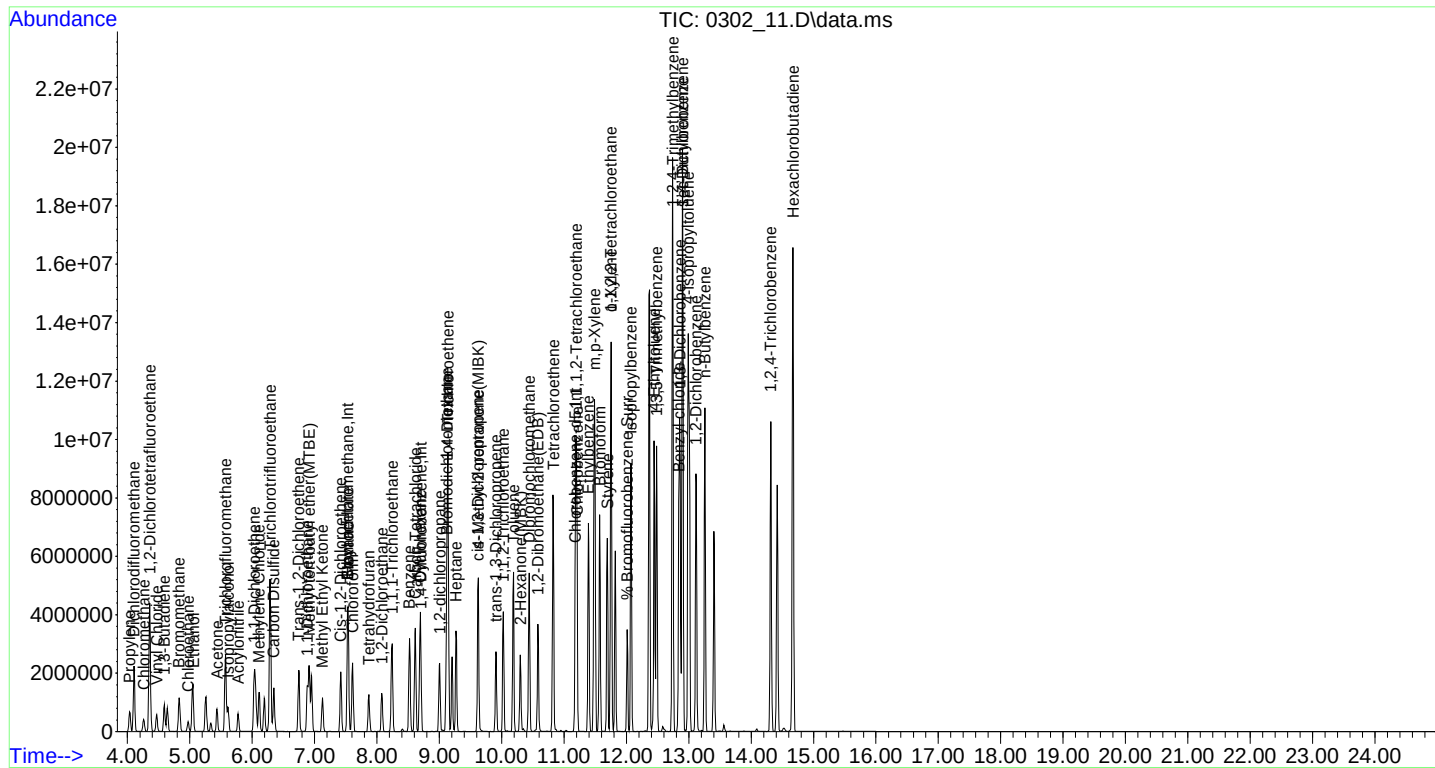
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.115	146	4002583	21.485	ppbv	100
118]	n-Butylbenzene(sim)	13.257	91	5588075	24.682	ppbv	100
119]	1,2,4-Trichlorobenzene...	14.315	180	3723486	21.061	ppbv	100
121]	Hexachlorobutadiene(sim)	14.665	225	3351026	20.024	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2023\CHEM39\03MAR\02A\  
Data File : 0302_11.D  
Acq On : 2 Mar 2023 11:36 pm  
Operator :  
Client ID : ICAL 25  
Lab ID : 25 ; to1503s  
ALS Vial : 11 Sample Multiplier: 1
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Quant Time: Mar 03 09:00:18 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 07:59:42 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_13.D
 Acq On : 3 Mar 2023 12:55 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 : to1503r
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 09:20:50 2023
 Quant Title :
 QLast Update : Wed Mar 08 09:59:54 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	366842	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1420855	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	591082	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	345030	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1420855	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	591082	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	898241	10.273	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery	=	102.70%	

Target Compounds						Qvalue
2) Propylene	4.033	41	18446	1.047	ppbv	96
3) Dichlorodifluoromethane	4.097	85	85981	0.993	ppbv	99
4) Chloromethane	4.252	50	21484	1.022	ppbv	98
5) 1,2-Dichlorotetrafluor...	4.349	85	92333	1.043	ppbv	98
6) Vinyl Chloride	4.462	62	28065	1.012	ppbv	96
7) 1,3-Butadiene	4.584	54	19949	1.060	ppbv	97
8) Bromomethane	4.827	94	35948	1.031	ppbv	97
9) Chloroethane	4.965	64	12699	0.991	ppbv	96
11) Ethanol	5.063	45	7884	1.216	ppbv#	92
12) Acetone	5.455	43	35728	1.074	ppbv	98
13) Trichlorofluoromethane	5.571	101	93475	1.017	ppbv	99
14) Isopropylalcohol	5.639	45	42695	1.096	ppbv	97
15) Acrylonitrile	5.780	53	18235	1.004	ppbv	97
16) 1,1-Dichloroethene	6.031	61	44028	1.001	ppbv	97
17) Methylene Chloride	6.108	49	26589	0.991	ppbv	99
20) Carbon Disulfide	6.347	76	89262	1.001	ppbv	99
21) Trichlorotrifluoroethane	6.281	101	78627	1.010	ppbv	98
22) Trans-1,2-Dichloroethene	6.745	61	42644	1.008	ppbv	98
23) 1,1-Dichloroethane	6.882	63	52908	1.012	ppbv	99
24) Methyl tert-butyl ethe...	6.936	73	84216m	1.004	ppbv	58
26) Methyl Ethyl Ketone	7.140	43	47053m	1.037	ppbv	68
27) Cis-1,2-Dichloroethene	7.418	61	40749	1.014	ppbv	96
28) Hexane	7.537	57	42302	1.012	ppbv	93
29) Chloroform	7.608	83	73033	1.011	ppbv	100
30) Ethyl acetate	7.545	61	13800	1.084	ppbv	95
31) Tetrahydrofuran	7.886	42	25576	0.974	ppbv	98
32) 1,2-Dichloroethane	8.076	62	37700	0.999	ppbv	98
33) 1,1,1-Trichloroethane	8.243	97	73379	1.001	ppbv	99
34) Benzene	8.522	78	107020	1.000	ppbv	99
35) Carbon Tetrachloride	8.609	117	86548	1.019	ppbv	97
36) Cyclohexane	8.695	84	41865	0.982	ppbv	93
38) 1,2-dichloropropane	9.007	63	38923	1.013	ppbv	96
39) Bromodichloromethane	9.119	83	78024	1.002	ppbv	98
40) Trichloroethene	9.136	130	65020	1.031	ppbv	97
42) 1,4-Dioxane	9.154	88	26367	1.091	ppbv	97
44) Heptane	9.266	43	45638	0.987	ppbv	95
45) cis-1,3-Dichloropropene	9.617	75	60232	1.001	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.646	43	59251	1.028	ppbv	97
47) trans-1,3-Dichloropropene	9.906	75	54211	0.985	ppbv	99
48) 1,1,2-Trichloroethane	10.026	97	51489	1.027	ppbv	98
49) Toluene	10.188	91	148139	1.005	ppbv	99
50) Dibromochloromethane	10.441	129	105855	0.978	ppbv	98
51) 2-Hexanone(MBK)	10.314	43	57812	1.043	ppbv	97

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_13.D
 Acq On : 3 Mar 2023 12:55 am
 Operator :
 Client ID : ICAL 1
 Lab ID : 1.0 : to1503r
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 09:20:50 2023
 Quant Title :
 QLast Update : Wed Mar 08 09:59:54 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
52) 1,2-Dibromoethane(EDB)	10.582	107	84287	0.987	ppbv	98
53) Tetrachloroethene	10.828	166	97665	1.016	ppbv	99
55) 1,1,1,2-Tetrachloroethane	11.193	131	72244	1.047	ppbv	98
56) Chlorobenzene	11.201	112	129570	1.043	ppbv	94
57) Ethylbenzene	11.390	91	183042	1.026	ppbv	99
58) m,p-Xylene	11.489	91	292807	2.115	ppbv	99
59) Bromoform	11.572	173	136422	1.037	ppbv	99
60) Styrene	11.693	104	115391	1.020	ppbv	100
61) 1,1,2,2-Tetrachloroethane	11.754	83	113512	1.062	ppbv	98
62) o-Xylene	11.754	91	148190	1.037	ppbv	99
65) Isopropylbenzene	12.073	105	216205	1.040	ppbv	100
67) 4-Ethyltoluene	12.445	105	234836	1.038	ppbv	96
68) 1,3,5-Trimethylbenzene	12.483	105	181464	1.035	ppbv	95
69) 1,2,4-Trimethylbenzene	12.741	105	195515	1.049	ppbv	98
71) Benzyl chloride	12.840	91	150804	1.017	ppbv	99
72) 1,3-Dichlorobenzene	12.855	146	171147	1.061	ppbv	99
73) 1,4-Dichlorobenzene	12.893	146	156505	1.072	ppbv	99
74) sec-Butylbenzene	12.900	105	271762	1.037	ppbv	99
75) 4-Isopropyltoluene	12.991	119	266900	1.045	ppbv	99
76) 1,2-Dichlorobenzene	13.113	146	158628	1.054	ppbv	100
77) n-Butylbenzene	13.257	91	212899	1.041	ppbv	99
78) 1,2,4-Trichlorobenzene	14.313	180	175298	1.191	ppbv	99
80) Hexachlorobutadiene	14.670	225	172233	1.146	ppbv	99
82) 1,2-Dichlorotetrafluor...	4.349	85	92258	0.953	ppbv	98
83) Vinyl Chloride(sim)	4.465	62	29292	0.932	ppbv	100
84) Bromomethane(sim)	4.827	94	35948	0.926	ppbv#	97
85) Trichlorofluoromethane...	5.568	101	93036	0.961	ppbv#	100
86) 1,2-Dichloroethane(sim)	8.076	62	37700	0.917	ppbv	98
87) 1,1,1-Trichloroethane(...	8.245	97	75826	0.952	ppbv#	98
88) Benzene(sim)	8.522	78	107020	0.965	ppbv	99
89) Carbon Tetrachloride(sim)	8.612	117	81701	0.943	ppbv	100
90) 1,1-Dichloroethene(sim)	6.031	61	44028	0.885	ppbv	97
91) Trichlorotrifluoroetha...	6.284	101	77866	0.932	ppbv#	99
92) Trans-1,2-Dichloroethe...	6.745	61	42644	0.924	ppbv	98
93) 1,1-Dichloroethane(sim)	6.885	63	54493	0.929	ppbv	100
94) Cis-1,2-Dichloroethene...	7.418	61	40749	0.941	ppbv	96
95) Chloroform(sim)	7.611	83	73284	0.885	ppbv	99
97) 1,2-dichloropropane(sim)	9.001	63	39617	0.900	ppbv	98
98) Bromodichloromethane(sim)	9.119	83	78024	0.928	ppbv	98
99) Trichloroethene(sim)	9.139	130	60825	0.934	ppbv	99
100) 1,4-Dioxane(sim)	9.154	88	26367	1.087	ppbv	98
101) cis-1,3-Dichloropropen...	9.620	75	61950	0.939	ppbv	99
102) 1,1,2-Trichloroethane(...	10.026	97	51489	0.935	ppbv	98
103) Dibromochloromethane(sim)	10.444	129	101969	0.957	ppbv	99
104) 1,2-Dibromoethane(EDB)...	10.582	107	84287	0.941	ppbv	98
105) Tetrachloroethene(sim)	10.824	166	88040	0.914	ppbv	99
107) Bromoform(sim)	11.568	173	116074	0.957	ppbv	100
108) m,p-Xylene(sim)	11.489	91	293508	2.018	ppbv	99
109) 1,1,2,2-Tetrachloroeth...	11.749	83	112137	0.945	ppbv	99
112) Benzyl chloride(sim)	12.840	91	150804	0.956	ppbv	99
113) 1,3-Dichlorobenzene(sim)	12.858	146	163796	0.964	ppbv	99
114) 1,4-Dichlorobenzene(sim)	12.893	146	156505	0.948	ppbv	99
115) sec-Butylbenzene(sim)	12.736	105	203075	1.017	ppbv	99
116) 4-Isopropyltoluene(sim)	12.991	119	266900	1.035	ppbv	99
117) 1,2-Dichlorobenzene(sim)	13.116	146	159706	0.960	ppbv	99
118) n-Butylbenzene(sim)	13.257	91	212899	1.053	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_13.D
Acq On : 3 Mar 2023 12:55 am
Operator :
Client ID : ICAL 1
Lab ID : 1.0 ; to1503r
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 03 09:20:50 2023
Quant Title :
QLast Update : Wed Mar 08 09:59:54 2023
Response via : Initial Calibration

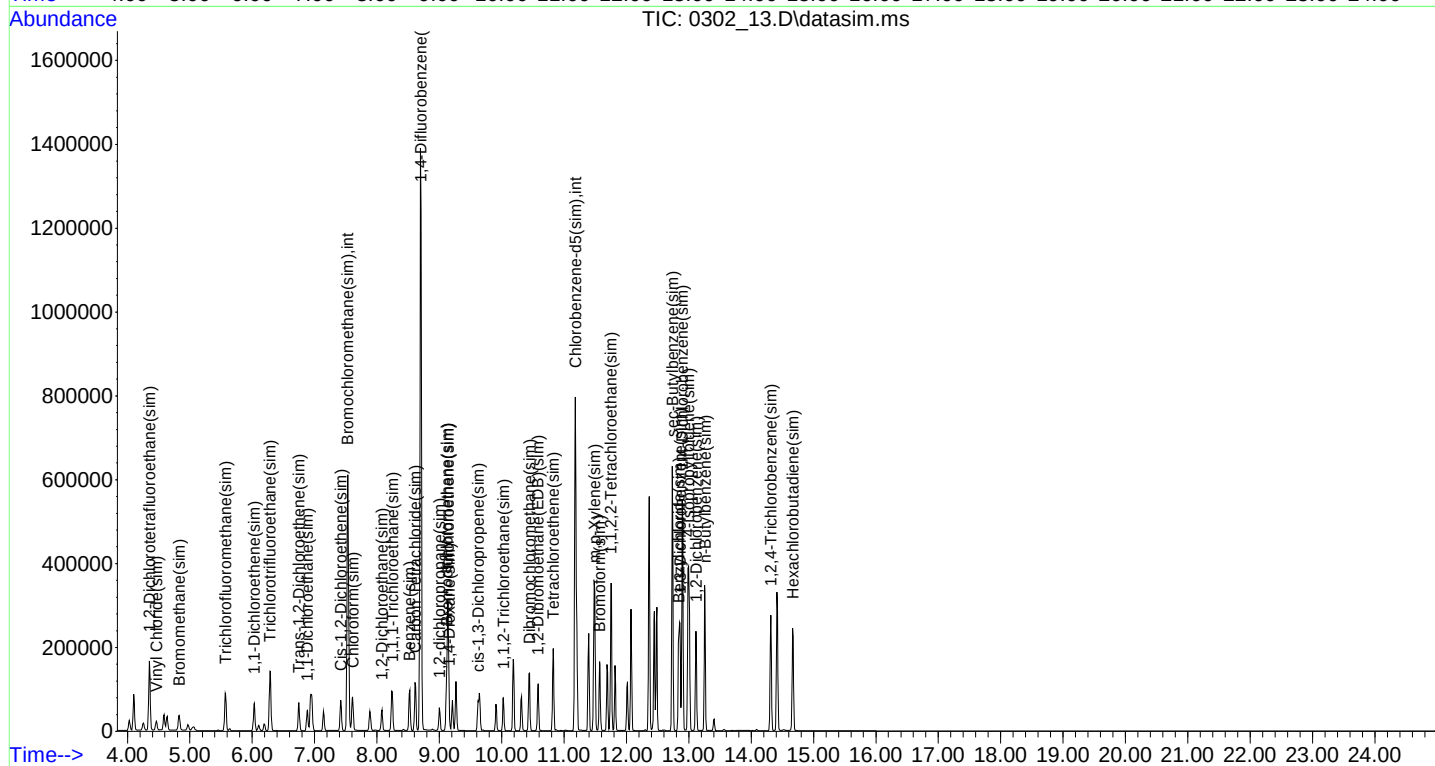
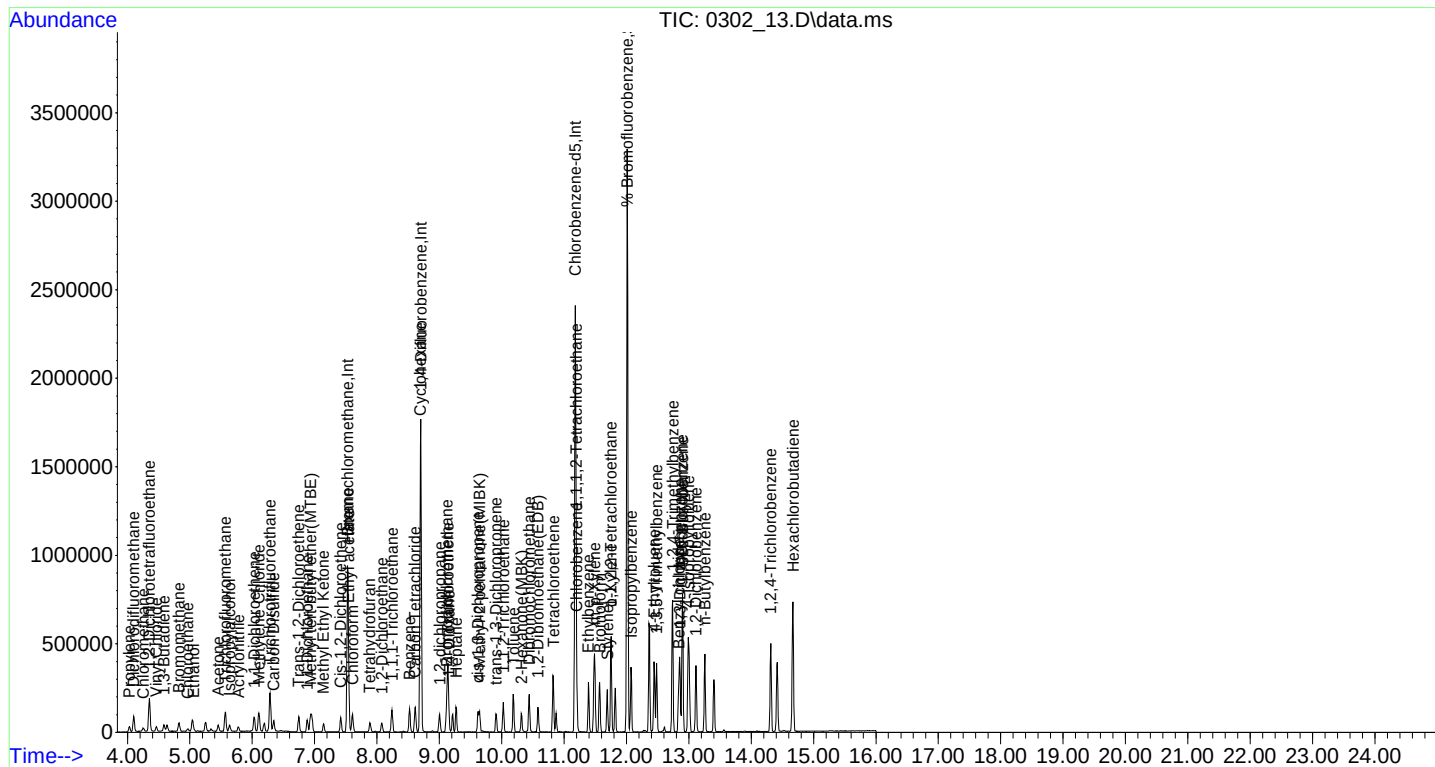
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
119]	1,2,4-Trichlorobenzene...	14.316	180	169547	1.074	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	148715	0.996	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

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Data Path : H:\AIR2023\CHEM39\03MAR\02A\  
Data File : 0302_13.D  
Acq On : 3 Mar 2023 12:55 am  
Operator :  
Client ID : ICAL 1  
Lab ID : 1.0 : to1503r  
ALS Vial : 13 Sample Multiplier: 1
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Quant Time: Mar 03 09:20:50 2023
Quant Title :
QLast Update : Wed Mar 08 09:59:54 2023
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_14.D
 Acq On : 3 Mar 2023 1:32 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ; to1503s
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 03 09:21:15 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:21:01 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	363335	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.703	114	1422169	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	612469	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	342026	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.703	114	1422169	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	612538	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	912420	10.071	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.70%

Target Compounds						Qvalue
2) Propylene	4.032	41	167751	9.611	ppbv	99
3) Dichlorodifluoromethane	4.097	85	872564	10.173	ppbv	100
4) Chloromethane	4.260	50	193101	9.278	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.349	85	870502	9.927	ppbv	100
6) Vinyl Chloride	4.462	62	269388	9.809	ppbv	99
7) 1,3-Butadiene	4.584	54	182620	9.799	ppbv	98
8) Bromomethane	4.827	94	342242	9.910	ppbv	100
9) Chloroethane	4.973	64	121456	9.569	ppbv	100
11) Ethanol	5.055	45	64226	10.002	ppbv	98
12) Acetone	5.436	43	322397	9.788	ppbv	99
13) Trichlorofluoromethane	5.571	101	924067	10.147	ppbv	99
14) Isopropylalcohol	5.620	45	409660	10.613	ppbv	99
15) Acrylonitrile	5.774	53	172716	9.600	ppbv	100
16) 1,1-Dichloroethene	6.031	61	441177	10.124	ppbv	98
17) Methylene Chloride	6.108	49	255381	9.610	ppbv	98
20) Carbon Disulfide	6.346	76	875899	9.915	ppbv	100
21) Trichlorotrifluoroethane	6.287	101	774148	10.037	ppbv	99
22) Trans-1,2-Dichloroethene	6.745	61	423640	10.113	ppbv	98
23) 1,1-Dichloroethane	6.882	63	520826	10.061	ppbv	99
24) Methyl tert-butyl ethe...	6.918	73	826359	9.942	ppbv	99
26) Methyl Ethyl Ketone	7.132	43	428726	9.542	ppbv	99
27) Cis-1,2-Dichloroethene	7.418	61	399879	10.047	ppbv	98
28) Hexane	7.537	57	420449	10.160	ppbv	98
29) Chloroform	7.608	83	713247	9.965	ppbv	100
30) Ethyl acetate	7.529	61	123090	9.764	ppbv	98
31) Tetrahydrofuran	7.878	42	259985	9.993	ppbv	98
32) 1,2-Dichloroethane	8.076	62	380619	10.180	ppbv	100
33) 1,1,1-Trichloroethane	8.242	97	736086	10.142	ppbv	100
34) Benzene	8.521	78	1050578	9.916	ppbv	100
35) Carbon Tetrachloride	8.617	117	852479	10.134	ppbv	99
36) Cyclohexane	8.694	84	411615	9.753	ppbv	98
38) 1,2-dichloropropane	9.006	63	378522	9.846	ppbv	97
39) Bromodichloromethane	9.118	83	775998	9.955	ppbv	100
40) Trichloroethene	9.136	130	636764	10.091	ppbv	99
42) 1,4-Dioxane	9.136	88	263175	10.879	ppbv	96
44) Heptane	9.274	43	457279	9.885	ppbv	96
45) cis-1,3-Dichloropropene	9.624	75	618207	10.265	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.631	43	582900	10.103	ppbv	99
47) trans-1,3-Dichloropropene	9.912	75	563234	10.227	ppbv	100
48) 1,1,2-Trichloroethane	10.025	97	504955	10.067	ppbv	99
49) Toluene	10.187	91	1487412	10.077	ppbv	100
50) Dibromochloromethane	10.440	129	1105470	10.202	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_14.D
 Acq On : 3 Mar 2023 1:32 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ; to1503s
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 03 09:21:15 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 08:21:01 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.306	43	565821	10.195	ppbv	99
52)	1,2-Dibromoethane(EDB)	10.581	107	866511	10.140	ppbv	100
53)	Tetrachloroethene	10.827	166	968001	10.065	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.192	131	709752	9.930	ppbv	99
56)	Chlorobenzene	11.207	112	1289758	10.022	ppbv	98
57)	Ethylbenzene	11.389	91	1877730	10.163	ppbv	99
58)	m,p-Xylene	11.488	91	2994146	20.870	ppbv	99
59)	Bromoform	11.571	173	1387937	10.183	ppbv	99
60)	Styrene	11.693	104	1220320	10.414	ppbv	99
61)	1,1,2,2-Tetrachloroethane	11.753	83	1102565	9.953	ppbv	99
62)	o-Xylene	11.753	91	1515163	10.229	ppbv	100
65)	Isopropylbenzene	12.072	105	2190027	10.171	ppbv	99
67)	4-Ethyltoluene	12.444	105	2383964	10.166	ppbv	97
68)	1,3,5-Trimethylbenzene	12.482	105	1874788	10.323	ppbv	95
69)	1,2,4-Trimethylbenzene	12.740	105	1982335	10.269	ppbv	100
71)	Benzyl chloride	12.839	91	1582768	10.304	ppbv	98
72)	1,3-Dichlorobenzene	12.854	146	1660483	9.933	ppbv	100
73)	1,4-Dichlorobenzene	12.900	146	1547167	10.226	ppbv	100
74)	sec-Butylbenzene	12.900	105	2796898	10.303	ppbv	99
75)	4-Isopropyltoluene	12.991	119	2762117	10.442	ppbv	99
76)	1,2-Dichlorobenzene	13.112	146	1567380	10.055	ppbv	100
77)	n-Butylbenzene	13.257	91	2210033	10.424	ppbv	99
78)	1,2,4-Trichlorobenzene	14.312	180	1484487	9.733	ppbv	100
80)	Hexachlorobutadiene	14.669	225	1483702	9.525	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.349	85	870272	9.071	ppbv	100
83)	Vinyl Chloride(sim)	4.465	62	278015	8.921	ppbv	100
84)	Bromomethane(sim)	4.827	94	342242	8.896	ppbv	100
85)	Trichlorofluoromethane...	5.568	101	923593	9.625	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	380619	9.339	ppbv	100
87)	1,1,1-Trichloroethane(...	8.245	97	764440	9.677	ppbv#	100
88)	Benzene(sim)	8.521	78	1050578	9.555	ppbv	100
89)	Carbon Tetrachloride(sim)	8.620	117	826089	9.614	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	441177	8.942	ppbv	98
91)	Trichlorotrifluoroetha...	6.290	101	764107	9.225	ppbv#	100
92)	Trans-1,2-Dichloroethe...	6.745	61	423640	9.262	ppbv	98
93)	1,1-Dichloroethane(sim)	6.885	63	541031	9.304	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.418	61	399879	9.312	ppbv	98
95)	Chloroform(sim)	7.611	83	721767	8.797	ppbv	100
97)	1,2-dichloropropane(sim)	9.000	63	392286	8.905	ppbv	99
98)	Bromodichloromethane(sim)	9.118	83	775998	9.225	ppbv	100
99)	Trichloroethene(sim)	9.139	130	604351	9.275	ppbv	99
100)	1,4-Dioxane(sim)	9.136	88	263175	10.838	ppbv	96
101)	cis-1,3-Dichloropropen...	9.620	75	636103	9.632	ppbv	100
102)	1,1,2-Trichloroethane(...	10.025	97	504955	9.159	ppbv	99
103)	Dibromochloromethane(sim)	10.443	129	1029915	9.655	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.581	107	866382	9.664	ppbv	100
105)	Tetrachloroethene(sim)	10.823	166	880826	9.132	ppbv	99
107)	Bromoform(sim)	11.574	173	1190664	9.478	ppbv	100
108)	m,p-Xylene(sim)	11.488	91	2998134	19.896	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	1096720	8.919	ppbv	100
112)	Benzyl chloride(sim)	12.839	91	1582768	9.682	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.857	146	1719055	9.766	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.900	146	1547453	9.041	ppbv	100
115)	sec-Butylbenzene(sim)	12.735	105	2082508	10.067	ppbv	99
116)	4-Isopropyltoluene(sim)	12.991	119	2761855	10.338	ppbv	99

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
Data File : 0302_14.D
Acq On : 3 Mar 2023 1:32 am
Operator :
Client ID : ICAL 10
Lab ID : 10 ; to1503s
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 03 09:21:15 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 08:21:01 2023
Response via : Initial Calibration

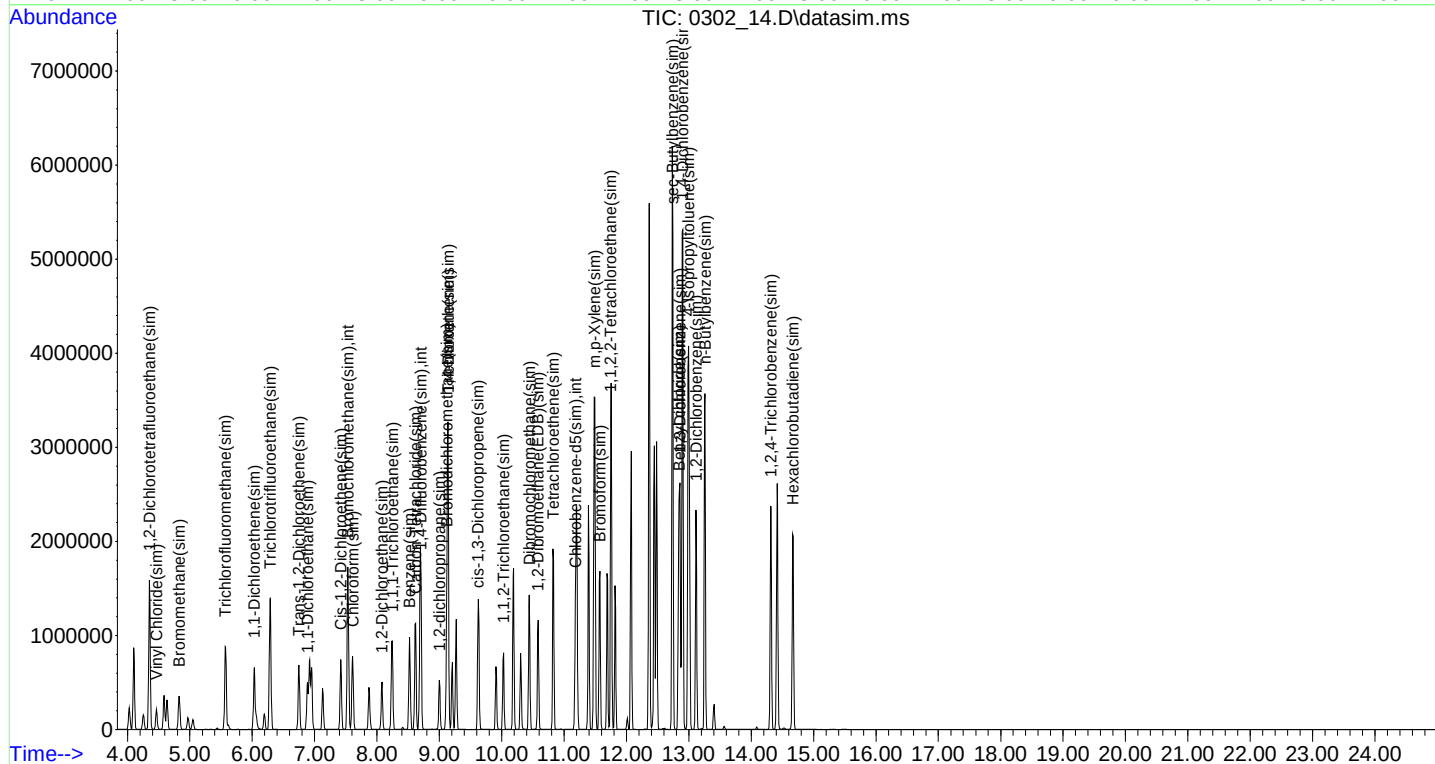
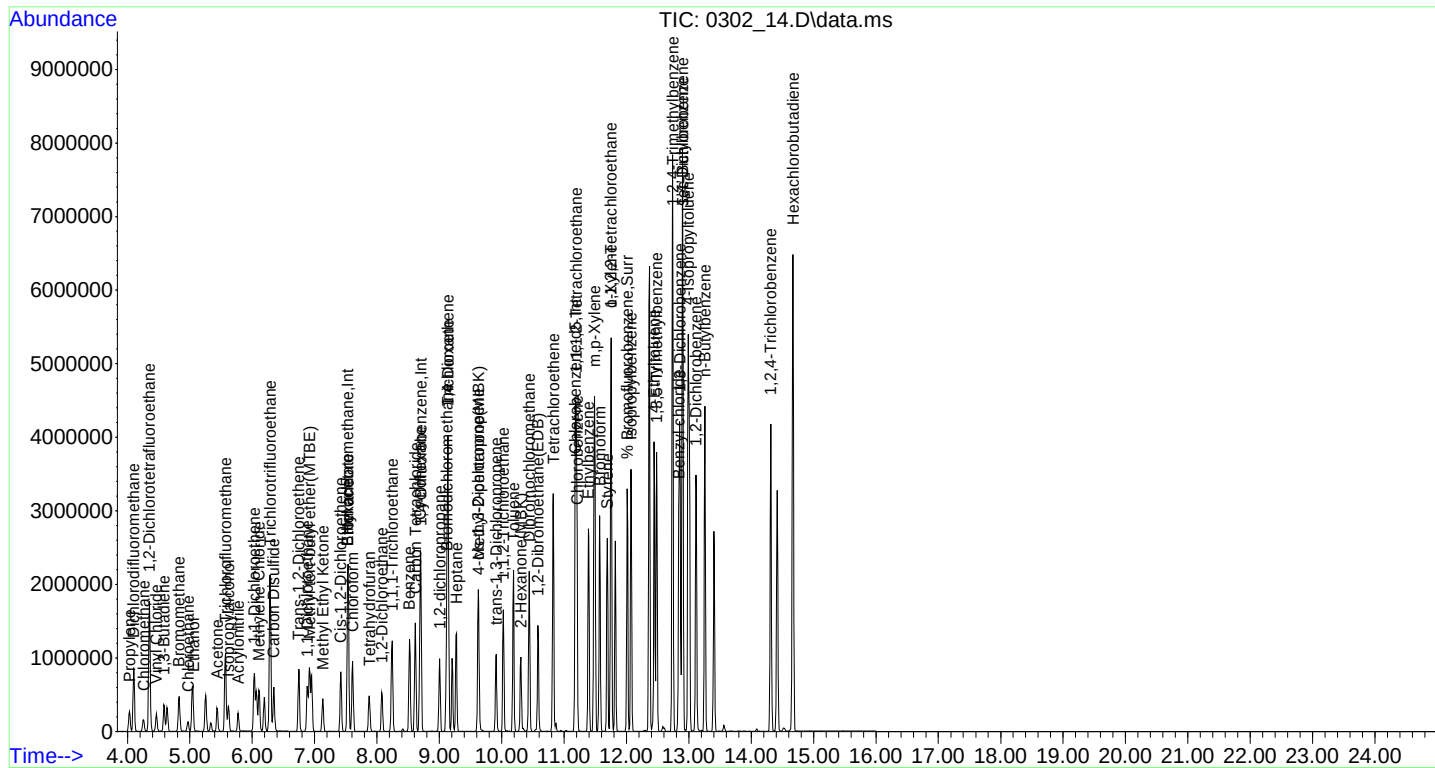
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.115	146	1570130	9.111	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	2209287	10.549	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.315	180	1435115	8.775	ppbv	100
121]	Hexachlorobutadiene(sim)	14.664	225	1298767	8.389	ppbv	100

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\02A\
 Data File : 0302_14.D
 Acq On : 3 Mar 2023 1:32 am
 Operator :
 Client ID : ICAL 10
 Lab ID : 10 ; to1503s
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Mar 03 09:21:15 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Fri Mar 03 08:21:01 2023
 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.: GCN54079

Instrument: CHEM20 Calibration Date: 03/07/23 Time: 10:37

Lab File Id: 0307_02.D Init. Calib. Date(s): 03/02/23 03/02/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:10 22:36

GC Column: RTX-1 60M Method File: 20_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	0.895	1.066		-19.1	30
Dichlorodifluoromethane	3.512	3.471		1.2	30
Chloromethane	1.760	2.146		-21.9	30
1,2-Dichlorotetrafluoroethane	5.525	6.440		-16.6	30
Vinyl Chloride	1.959	2.349		-19.9	30
1,3-Butadiene	1.646	1.911		-16.1	30
Bromomethane	1.995	2.292		-14.9	30
Chloroethane	0.781	1.074		-37.5 #	30
Ethanol	0.698	1.065		-52.6 #	30
Acetone	4.478	5.520		-23.3	30
Trichlorofluoromethane	7.029	8.165		-16.2	30
Isopropylalcohol	4.774	5.760		-20.7	30
Acrylonitrile	1.771	2.141		-20.9	30
1,1-Dichloroethene	3.848	4.284		-11.3	30
Methylene Chloride	3.153	3.797		-20.4	30
Carbon Disulfide	5.104	6.478		-26.9	30
Trichlorotrifluoroethane	4.821	6.172		-28.0	30
Trans-1,2-Dichloroethene	1.448	1.416		2.2	30
1,1-Dichloroethane	1.925	1.785		7.3	30
Methyl tert-butyl ether(MTBE)	2.513	2.296		8.6	30
Methyl Ethyl Ketone	2.681	2.762		-3.0	30
Cis-1,2-Dichloroethene	1.492	1.623		-8.8	30
Hexane	1.805	1.556		13.8	30
Chloroform	2.085	2.108		-1.1	30
Ethyl acetate	0.479	0.489		-2.1	30
Tetrahydrofuran	1.610	1.619		-0.6	30
1,2-Dichloroethane	1.500	1.253		16.5	30
1,1,1-Trichloroethane	2.128	2.213		-4.0	30
Benzene	2.995	2.868		4.2	30
Carbon Tetrachloride	1.956	1.484		24.1	30
Cyclohexane	1.204	1.189		1.2	30
1,2-dichloropropane	0.372	0.321		13.7	30
Bromodichloromethane	0.618	0.495		19.9	30
Trichloroethene	0.452	0.373		17.5	30
1,4-Dioxane	0.209	0.133		36.4 #	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.: GCN54079

Instrument: CHEM20 Calibration Date: 03/07/23 Time: 10:37

Lab File Id: 0307_02.D Init. Calib. Date(s): 03/02/23 03/02/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:10 22:36

GC Column: RTX-1 60M Method File: 20_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.638	0.577		9.6	30
cis-1,3-Dichloropropene	0.456	0.340		25.4	30
4-Methyl-2-pentanone(MIBK)	0.974	0.855		12.2	30
trans-1,3-Dichloropropene	0.407	0.358		12.0	30
1,1,2-Trichloroethane	0.350	0.313		10.6	30
Toluene	1.001	0.908		9.3	30
Dibromochloromethane	0.606	0.525		13.4	30
2-Hexanone(MBK)	0.846	0.766		9.5	30
1,2-Dibromoethane(EDB)	0.586	0.598		-2.0	30
Tetrachloroethene	0.511	0.509		0.4	30
1,1,1,2-Tetrachloroethane	0.893	0.980		-9.7	30
Chlorobenzene	1.617	1.801		-11.4	30
Ethylbenzene	2.568	2.952		-15.0	30
m,p-Xylene	1.953	1.721		11.9	30
Bromoform	1.065	0.859		19.3	30
Styrene	1.514	1.652		-9.1	30
1,1,2,2-Tetrachloroethane	1.740	1.833		-5.3	30
o-Xylene	2.147	2.244		-4.5	30
Isopropylbenzene	2.689	3.083		-14.7	30
4-Ethyltoluene	3.012	3.276		-8.8	30
1,3,5-Trimethylbenzene	2.179	2.364		-8.5	30
1,2,4-Trimethylbenzene	2.619	2.748		-4.9	30
Benzyl chloride	1.436	0.991		31.0 #	30
1,3-Dichlorobenzene	1.840	1.925		-4.6	30
1,4-Dichlorobenzene	1.882	1.871		0.6	30
sec-Butylbenzene	3.698	3.946		-6.7	30
4-Isopropyltoluene	3.530	4.006		-13.5	30
1,2-Dichlorobenzene	1.699	1.923		-13.2	30
n-Butylbenzene	2.733	3.149		-15.2	30
1,2,4-Trichlorobenzene	1.061	0.982		7.4	30
Hexachlorobutadiene	1.428	1.561		-9.3	30
1,2-Dichlorotetrafluoroethane(sim)	5.184	5.203		-0.4	30
Vinyl Chloride(sim)	1.702	1.919		-12.7	30
Bromomethane(sim)	1.867	1.857		0.5	30
Trichlorofluoromethane(sim)	5.898	7.177		-21.7	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.: GCN54079

Instrument: CHEM20 Calibration Date: 03/07/23 Time: 10:37

Lab File Id: 0307_02.D Init. Calib. Date(s): 03/02/23 03/02/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:10 22:36

GC Column: RTX-1 60M Method File: 20_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.362	1.016		25.4	30
1,1,1-Trichloroethane(sim)	1.803	1.653		8.3	30
Benzene(sim)	2.691	2.325		13.6	30
Carbon Tetrachloride(sim)	1.627	1.574		3.3	30
1,1-Dichloroethene(sim)	3.217	3.472		-7.9	30
Trichlorotrifluoroethane(sim)	4.035	5.217		-29.3	30
Trans-1,2-Dichloroethene(sim)	1.321	1.147		13.2	30
1,1-Dichloroethane(sim)	1.626	1.556		4.3	30
Cis-1,2-Dichloroethene(sim)	1.372	1.315		4.2	30
Chloroform(sim)	1.891	1.778		6.0	30
1,2-dichloropropane(sim)	0.385	0.349		9.4	30
Bromodichloromethane(sim)	0.506	0.505		0.2	30
Trichloroethene(sim)	0.484	0.466		3.7	30
1,4-Dioxane(sim)	0.199	0.133		33.2 #	30
cis-1,3-Dichloropropene(sim)	0.428	0.399		6.8	30
1,1,2-Trichloroethane(sim)	0.330	0.319		3.3	30
Dibromochloromethane(sim)	0.553	0.596		-7.8	30
1,2-Dibromoethane(EDB)(sim)	0.545	0.589		-8.1	30
Tetrachloroethene(sim)	0.661	0.632		4.4	30
Bromoform(sim)	1.104	1.262		-14.3	30
m,p-Xylene(sim)	2.247	2.224		1.0	30
1,1,2,2-Tetrachloroethane(sim)	1.909	1.932		-1.2	30
Benzyl chloride(sim)	1.014	0.991		2.3	30
1,3-Dichlorobenzene(sim)	2.087	2.297		-10.1	30
1,4-Dichlorobenzene(sim)	1.788	1.871		-4.6	30
sec-Butylbenzene(sim)	3.897	4.236		-8.7	30
4-Isopropyltoluene(sim)	3.635	4.006		-10.2	30
1,2-Dichlorobenzene(sim)	2.071	2.264		-9.3	30
n-Butylbenzene(sim)	2.863	3.149		-10.0	30
1,2,4-Trichlorobenzene(sim)	1.147	1.250		-9.0	30
Hexachlorobutadiene(sim) qfi	1.000	1.12		-12.0	20
% Bromofluorobenzene	1.092	1.226		-12.3	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.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_02.D
 Acq On : 7 Mar 2023 10:37 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 09:21:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. 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	88
2	Propylene	0.895	1.066	-19.1	
3	Dichlorodifluoromethane	3.512	3.471	1.2	
4	Chloromethane	1.760	2.146	-21.9	
5	1,2-Dichlorotetrafluoroetha	5.525	6.440	-16.6	
6	Vinyl Chloride	1.959	2.349	-19.9	
7	1,3-Butadiene	1.646	1.911	-16.1	
8	Bromomethane	1.995	2.292	-14.9	
9	Chloroethane	0.781	1.074	-37.5#	
11	Ethanol	0.698	1.065	-52.6#	
12	Acetone	4.478	5.520	-23.3	
13	Trichlorofluoromethane	7.029	8.165	-16.2	
14	Isopropylalcohol	4.774	5.760	-20.7	
15	Acrylonitrile	1.771	2.141	-20.9	
16	1,1-Dichloroethene	3.848	4.284	-11.3	
17	Methylene Chloride	3.153	3.797	-20.4	
20	Carbon Disulfide	5.104	6.478	-26.9	
21	Trichlorotrifluoroethane	4.821	6.172	-28.0	
22	Trans-1,2-Dichloroethene	1.448	1.416	2.2	
23	1,1-Dichloroethane	1.925	1.785	7.3	
24	Methyl tert-butyl ether(MTB)	2.513	2.296	8.6	
26	Methyl Ethyl Ketone	2.681	2.762	-3.0	
27	Cis-1,2-Dichloroethene	1.492	1.623	-8.8	
28	Hexane	1.805	1.556	13.8	
29	Chloroform	2.085	2.108	-1.1	
30	Ethyl acetate	0.479	0.489	-2.1	
31	Tetrahydrofuran	1.610	1.619	-0.6	
32	1,2-Dichloroethane	1.500	1.253	16.5	
33	1,1,1-Trichloroethane	2.128	2.213	-4.0	
34	Benzene	2.995	2.868	4.2	
35	Carbon Tetrachloride	1.956	1.484	24.1	
36	Cyclohexane	1.204	1.189	1.2	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	91
38	1,2-dichloropropane	0.372	0.321	13.7	
39	Bromodichloromethane	0.618	0.495	19.9	
40	Trichloroethene	0.452	0.373	17.5	
42	1,4-Dioxane	0.209	0.133	36.4#	
44	Heptane	0.638	0.577	9.6	
45	cis-1,3-Dichloropropene	0.456	0.340	25.4	
46	4-Methyl-2-pentanone(MIBK)	0.974	0.855	12.2	
47	trans-1,3-Dichloropropene	0.407	0.358	12.0	
48	1,1,2-Trichloroethane	0.350	0.313	10.6	
49	Toluene	1.001	0.908	9.3	
50	Dibromochloromethane	0.606	0.525	13.4	
51	2-Hexanone(MBK)	0.846	0.766	9.5	
52	1,2-Dibromoethane(EDB)	0.586	0.598	-2.0	
53	Tetrachloroethene	0.511	0.509	0.4	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	86
55	1,1,1,2-Tetrachloroethane	0.893	0.980	-9.7	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_02.D
 Acq On : 7 Mar 2023 10:37 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 09:21:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
56	Chlorobenzene	1.617	1.801	-11.4	
57	Ethylbenzene	2.568	2.952	-15.0	
58	m,p-Xylene	1.953	1.721	11.9	
59	Bromoform	1.065	0.859	19.3	
60	Styrene	1.514	1.652	-9.1	
61	1,1,2,2-Tetrachloroethane	1.740	1.833	-5.3	
62	o-Xylene	2.147	2.244	-4.5	
63	Surr % Bromofluorobenzene	1.092	1.226	-12.3	
65	Isopropylbenzene	2.689	3.083	-14.7	
67	4-Ethyltoluene	3.012	3.276	-8.8	
68	1,3,5-Trimethylbenzene	2.179	2.364	-8.5	
69	1,2,4-Trimethylbenzene	2.619	2.748	-4.9	
71	Benzyl chloride	1.436	0.991	31.0#	
72	1,3-Dichlorobenzene	1.840	1.925	-4.6	
73	1,4-Dichlorobenzene	1.882	1.871	0.6	
74	sec-Butylbenzene	3.698	3.946	-6.7	
75	4-Isopropyltoluene	3.530	4.006	-13.5	
76	1,2-Dichlorobenzene	1.699	1.923	-13.2	
77	n-Butylbenzene	2.733	3.149	-15.2	
78	1,2,4-Trichlorobenzene	1.061	0.982	7.4	
80	Hexachlorobutadiene	1.428	1.561	-9.3	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	92
82	1,2-Dichlorotetrafluoroetha	5.184	5.203	-0.4	
83	Vinyl Chloride(sim)	1.702	1.919	-12.7	
84	Bromomethane(sim)	1.867	1.857	0.5	
85	Trichlorofluoromethane(sim)	5.898	7.177	-21.7	
86	1,2-Dichloroethane(sim)	1.362	1.016	25.4	
87	1,1,1-Trichloroethane(sim)	1.803	1.653	8.3	
88	Benzene(sim)	2.691	2.325	13.6	
89	Carbon Tetrachloride(sim)	1.627	1.574	3.3	
90	1,1-Dichloroethene(sim)	3.217	3.472	-7.9	
91	Trichlorotrifluoroethane(si	4.035	5.217	-29.3	
92	Trans-1,2-Dichloroethene(si	1.321	1.147	13.2	
93	1,1-Dichloroethane(sim)	1.626	1.556	4.3	
94	Cis-1,2-Dichloroethene(sim)	1.372	1.315	4.2	
95	Chloroform(sim)	1.891	1.778	6.0	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	91
97	1,2-dichloropropane(sim)	0.385	0.349	9.4	
98	Bromodichloromethane(sim)	0.506	0.505	0.2	
99	Trichloroethene(sim)	0.484	0.466	3.7	
100	1,4-Dioxane(sim)	0.199	0.133	33.2#	
101	cis-1,3-Dichloropropene(sim	0.428	0.399	6.8	
102	1,1,2-Trichloroethane(sim)	0.330	0.319	3.3	
103	Dibromochloromethane(sim)	0.553	0.596	-7.8	
104	1,2-Dibromoethane(EDB)(sim)	0.545	0.589	-8.1	
105	Tetrachloroethene(sim)	0.661	0.632	4.4	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	86
107	Bromoform(sim)	1.104	1.262	-14.3	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_02.D
 Acq On : 7 Mar 2023 10:37 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 09:21:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
108	m,p-Xylene(sim)	2.247	2.224	1.0
109	1,1,2,2-Tetrachloroethane(s	1.909	1.932	-1.2
112	Benzyl chloride(sim)	1.014	0.991	2.3
113	1,3-Dichlorobenzene(sim)	2.087	2.297	-10.1
114	1,4-Dichlorobenzene(sim)	1.788	1.871	-4.6
115	sec-Butylbenzene(sim)	3.897	4.236	-8.7
116	4-Isopropyltoluene(sim)	3.635	4.006	-10.2
117	1,2-Dichlorobenzene(sim)	2.071	2.264	-9.3
118	n-Butylbenzene(sim)	2.863	3.149	-10.0
119	1,2,4-Trichlorobenzene(sim)	1.147	1.250	-9.0
120 qf	Hexachlorobutadiene(sim)	1.000	1.121	-12.1

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_02.D
 Acq On : 7 Mar 2023 10:37 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 09:21:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.528	130	318448	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.671	114	1257627	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	525952	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	392902	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1259132	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	525952	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	644656	11.228	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	112.30%

Target Compounds					Qvalue
2) Propylene	4.089	41	33957	1.192	ppbv 87
3) Dichlorodifluoromethane	4.164	85	110540	0.988	ppbv# 96
4) Chloromethane	4.315	50	68345	1.220	ppbv 87
5) 1,2-Dichlorotetrafluor...	4.401	85	205080	1.166	ppbv 98
6) Vinyl Chloride	4.520	62	74815	1.199	ppbv 100
7) 1,3-Butadiene	4.639	54	60853	1.161	ppbv# 94
8) Bromomethane	4.865	94	72975	1.149	ppbv# 78
9) Chloroethane	5.016	64	34188	1.374	ppbv# 74
11) Ethanol	5.134	45	33910	1.526	ppbv# 74
12) Acetone	5.501	43	175798	1.233	ppbv 93
13) Trichlorofluoromethane	5.598	101	260019	1.162	ppbv 95
14) Isopropylalcohol	5.695	45	183440	1.207	ppbv# 98
15) Acrylonitrile	5.813	53	68174	1.209	ppbv 92
16) 1,1-Dichloroethene	6.046	61	136413	1.113	ppbv 95
17) Methylene Chloride	6.124	49	120909	1.204	ppbv 96
20) Carbon Disulfide	6.357	76	206281	1.269	ppbv 100
21) Trichlorotrifluoroethane	6.296	101	196553	1.280	ppbv 90
22) Trans-1,2-Dichloroethene	6.752	61	45083	0.978	ppbv 93
23) 1,1-Dichloroethane	6.886	63	56830	0.927	ppbv 98
24) Methyl tert-butyl ethe...	6.949	73	73122	0.914	ppbv# 89
26) Methyl Ethyl Ketone	7.154	43	87963	1.030	ppbv# 87
27) Cis-1,2-Dichloroethene	7.413	61	51685	1.088	ppbv# 86
28) Hexane	7.528	57	49540	0.862	ppbv# 76
29) Chloroform	7.590	83	67130	1.011	ppbv 99
30) Ethyl acetate	7.549	61	15559	1.020	ppbv# 90
31) Tetrahydrofuran	7.882	42	51572	1.006	ppbv 92
32) 1,2-Dichloroethane	8.059	62	39907	0.835	ppbv 97
33) 1,1,1-Trichloroethane	8.226	97	70462	1.040	ppbv# 82
34) Benzene	8.501	78	91345	0.958	ppbv 92
35) Carbon Tetrachloride	8.592	117	47248	0.759	ppbv 93
36) Cyclohexane	8.671	84	37848	0.987	ppbv# 84
38) 1,2-dichloropropane	8.977	63	40307	0.862	ppbv# 87
39) Bromodichloromethane	9.090	83	62289	0.801	ppbv 96
40) Trichloroethene	9.113	130	46913	0.824	ppbv 93
42) 1,4-Dioxane	9.135	88	16787	0.638	ppbv# 72
44) Heptane	9.237	43	72552	0.904	ppbv 91
45) cis-1,3-Dichloropropene	9.582	75	42708	0.744	ppbv 84
46) 4-Methyl-2-pentanone(M...	9.611	43	107546	0.878	ppbv 99
47) trans-1,3-Dichloropropene	9.873	75	45023	0.880	ppbv# 89
48) 1,1,2-Trichloroethane	9.989	97	39314	0.893	ppbv 98
49) Toluene	10.144	91	114191	0.907	ppbv# 97
50) Dibromochloromethane	10.397	129	65968	0.865	ppbv 99

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_02.D
 Acq On : 7 Mar 2023 10:37 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 09:21:46 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.280	43	96323	0.905	ppbv	93
52)	1,2-Dibromoethane(EDB)	10.542	107	75239	1.022	ppbv	100
53)	Tetrachloroethene	10.785	166	63993	0.997	ppbv	85
55)	1,1,1,2-Tetrachloroethane	11.141	131	51532	1.097	ppbv	88
56)	Chlorobenzene	11.152	112	94700	1.114	ppbv	94
57)	Ethylbenzene	11.346	91	155262	1.149	ppbv	92
58)	m,p-Xylene	11.439	91	226310	2.203	ppbv	99
59)	Bromoform	11.521	173	45193	0.807	ppbv#	78
60)	Styrene	11.644	104	86895	1.092	ppbv	96
61)	1,1,2,2-Tetrachloroethane	11.705	83	96387	1.053	ppbv	94
62)	o-Xylene	11.705	91	118028	1.045	ppbv	97
65)	Isopropylbenzene	12.023	105	162150	1.146	ppbv	98
67)	4-Ethyltoluene	12.392	105	172326	1.088	ppbv#	89
68)	1,3,5-Trimethylbenzene	12.423	105	124361	1.085	ppbv	98
69)	1,2,4-Trimethylbenzene	12.679	105	144514	1.049	ppbv	94
71)	Benzyl chloride	12.782	91	52131	0.690	ppbv#	90
72)	1,3-Dichlorobenzene	12.802	146	101236	1.046	ppbv	98
73)	1,4-Dichlorobenzene	12.833	146	98424	0.994	ppbv	97
74)	sec-Butylbenzene	12.844	105	207547	1.067	ppbv	96
75)	4-Isopropyltoluene	12.926	119	210681	1.135	ppbv	97
76)	1,2-Dichlorobenzene	13.059	146	101117	1.132	ppbv	96
77)	n-Butylbenzene	13.192	91	165639	1.152	ppbv	96
78)	1,2,4-Trichlorobenzene	14.239	180	51668	0.926	ppbv#	92
80)	Hexachlorobutadiene	14.567	225	82093	1.093	ppbv	96
82)	1,2-Dichlorotetrafluor...	4.401	85	204411	1.004	ppbv	98
83)	Vinyl Chloride(sim)	4.515	62	75383	1.127	ppbv	100
84)	Bromomethane(sim)	4.865	94	72975	0.995	ppbv#	81
85)	Trichlorofluoromethane...	5.603	101	281967	1.217	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.059	62	39907	0.746	ppbv	97
87)	1,1,1-Trichloroethane(...	8.221	97	64940	0.917	ppbv#	95
88)	Benzene(sim)	8.501	78	91345	0.864	ppbv	92
89)	Carbon Tetrachloride(sim)	8.598	117	61841	0.967	ppbv	98
90)	1,1-Dichloroethene(sim)	6.046	61	136413	1.079	ppbv	96
91)	Trichlorotrifluoroetha...	6.302	101	204974	1.293	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.752	61	45083	0.869	ppbv	93
93)	1,1-Dichloroethane(sim)	6.891	63	61153	0.957	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.413	61	51685	0.959	ppbv#	85
95)	Chloroform(sim)	7.596	83	69868	0.940	ppbv	96
97)	1,2-dichloropropane(sim)	8.982	63	43893	0.906	ppbv	92
98)	Bromodichloromethane(sim)	9.090	83	63607	0.998	ppbv	96
99)	Trichloroethene(sim)	9.107	130	58681	0.963	ppbv	96
100)	1,4-Dioxane(sim)	9.135	88	16787	0.669	ppbv#	80
101)	cis-1,3-Dichloropropen...	9.587	75	50194	0.931	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	40125	0.966	ppbv	98
103)	Dibromochloromethane(sim)	10.402	129	75060	1.079	ppbv	98
104)	1,2-Dibromoethane(EDB)...	10.542	107	74159	1.080	ppbv	99
105)	Tetrachloroethene(sim)	10.781	166	79527	0.956	ppbv	97
107)	Bromoform(sim)	11.526	173	66381	1.143	ppbv	99
108)	m,p-Xylene(sim)	11.439	91	233963	1.980	ppbv	98
109)	1,1,2,2-Tetrachloroeth...	11.700	83	101613	1.012	ppbv	100
112)	Benzyl chloride(sim)	12.782	91	52131	0.977	ppbv	90
113)	1,3-Dichlorobenzene(sim)	12.798	146	120836	1.101	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.833	146	98424	1.047	ppbv	97
115)	sec-Butylbenzene(sim)	12.839	105	222811	1.087	ppbv	98
116)	4-Isopropyltoluene(sim)	12.926	119	210681	1.102	ppbv	97

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
Data File : 0307_02.D
Acq On : 7 Mar 2023 10:37 am
Operator :
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1ppb ccal - 1ppb ccal
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 08 09:21:46 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration

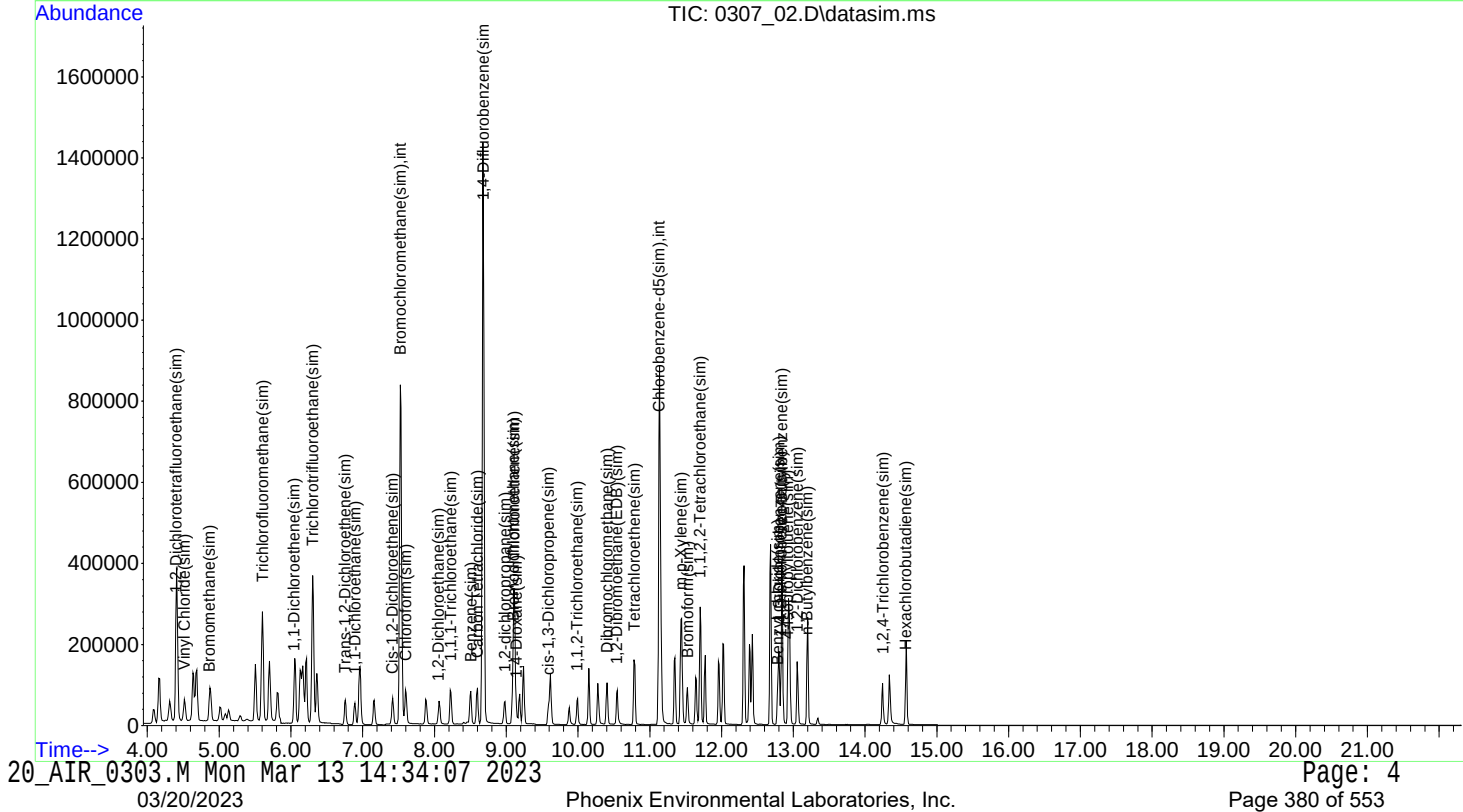
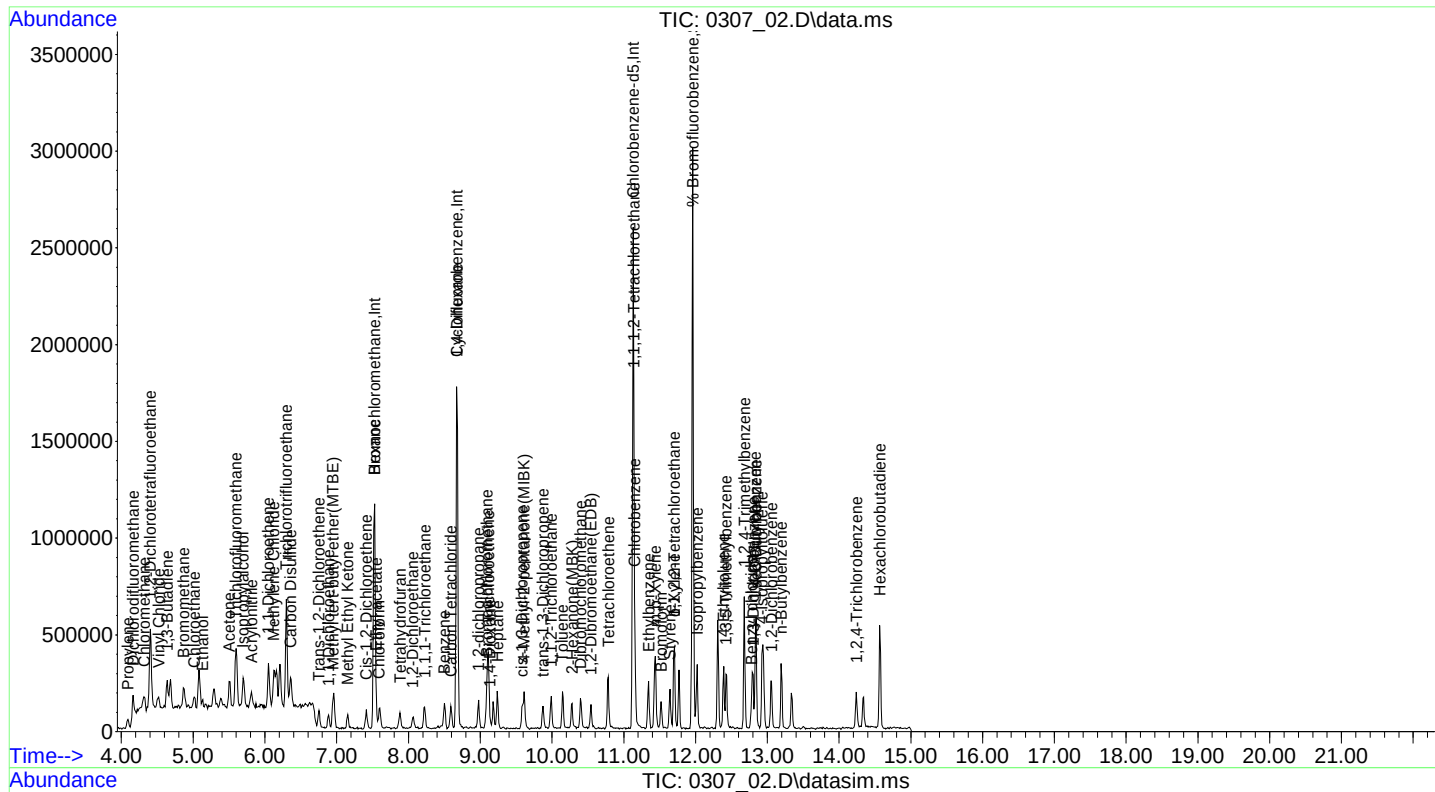
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	119069	1.093	ppbv	97
118]	n-Butylbenzene(sim)	13.192	91	165639	1.100	ppbv	96
119]	1,2,4-Trichlorobenzene...	14.245	180	65734	1.090	ppbv	97
120]	Hexachlorobutadiene(sim)	14.567	225	82526	1.121	ppbv	97

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

(Not Reviewed)

```
Data Path : H:\AIR2023\CHEM20\03MAR\06A\  
Data File : 0307_02.D  
Acq On : 7 Mar 2023 10:37 am  
Operator :  
Client ID : CCAL 1 - BFB TUNE  
Lab ID : 1ppb ccal - 1ppb ccal  
ALS Vial : 1 Sample Multiplier: 1
```

Quant Time: Mar 08 09:21:46 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 12:06:33 2023
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.: GCN54079

Instrument: CHEM39 Calibration Date: 03/07/23 Time: 11:09

Lab File Id: 0307_01.D Init. Calib. Date(s): 03/02/23 03/03/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:58 01:32

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	0.480	0.395		17.7	30
Dichlorodifluoromethane	2.361	2.437		-3.2	30
Chloromethane	0.573	0.485		15.4	30
1,2-Dichlorotetrafluoroethane	2.414	2.390		1.0	30
Vinyl Chloride	0.756	0.667		11.8	30
1,3-Butadiene	0.513	0.450		12.3	30
Bromomethane	0.951	0.905		4.8	30
Chloroethane	0.349	0.302		13.5	30
Ethanol	0.177	0.165		6.8	30
Acetone	0.907	0.896		1.2	30
Trichlorofluoromethane	2.506	2.816		-12.4	30
Isopropylalcohol	1.062	1.014		4.5	30
Acrylonitrile	0.495	0.442		10.7	30
1,1-Dichloroethene	1.199	1.193		0.5	30
Methylene Chloride	0.731	0.709		3.0	30
Carbon Disulfide	2.431	2.290		5.8	30
Trichlorotrifluoroethane	2.123	2.189		-3.1	30
Trans-1,2-Dichloroethene	1.153	1.052		8.8	30
1,1-Dichloroethane	1.425	1.297		9.0	30
Methyl tert-butyl ether(MTBE)	2.288	1.964		14.2	30
Methyl Ethyl Ketone	1.237	1.040		15.9	30
Cis-1,2-Dichloroethene	1.095	0.956		12.7	30
Hexane	1.139	0.864		24.1	30
Chloroform	1.970	1.948		1.1	30
Ethyl acetate	0.347	0.278		19.9	30
Tetrahydrofuran	0.716	0.514		28.2	30
1,2-Dichloroethane	1.029	1.033		-0.4	30
1,1,1-Trichloroethane	1.998	2.067		-3.5	30
Benzene	2.916	2.465		15.5	30
Carbon Tetrachloride	2.315	2.444		-5.6	30
Cyclohexane	1.162	1.028		11.5	30
1,2-dichloropropane	0.270	0.248		8.1	30
Bromodichloromethane	0.548	0.559		-2.0	30
Trichloroethene	0.444	0.454		-2.3	30
1,4-Dioxane	0.170	0.164		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.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN54079

Instrument: CHEM39 Calibration Date: 03/07/23 Time: 11:09

Lab File Id: 0307_01.D Init. Calib. Date(s): 03/02/23 03/03/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:58 01:32

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.325	0.245		24.6	30
cis-1,3-Dichloropropene	0.423	0.367		13.2	30
4-Methyl-2-pentanone(MIBK)	0.406	0.360		11.3	30
trans-1,3-Dichloropropene	0.387	0.341		11.9	30
1,1,2-Trichloroethane	0.353	0.344		2.5	30
Toluene	1.038	0.942		9.2	30
Dibromochloromethane	0.762	0.803		-5.4	30
2-Hexanone(MBK)	0.390	0.339		13.1	30
1,2-Dibromoethane(EDB)	0.601	0.575		4.3	30
Tetrachloroethene	0.676	0.714		-5.6	30
1,1,1,2-Tetrachloroethane	1.167	1.311		-12.3	30
Chlorobenzene	2.101	2.203		-4.9	30
Ethylbenzene	3.017	2.754		8.7	30
m,p-Xylene	2.342	1.864		20.4	30
Bromoform	2.225	2.402		-8.0	30
Styrene	1.913	1.715		10.4	30
1,1,2,2-Tetrachloroethane	1.809	1.770		2.2	30
o-Xylene	2.419	2.381		1.6	30
Isopropylbenzene	3.516	3.642		-3.6	30
4-Ethyltoluene	3.829	3.686		3.7	30
1,3,5-Trimethylbenzene	2.965	3.141		-5.9	30
1,2,4-Trimethylbenzene	3.152	3.061		2.9	30
Benzyl chloride	2.508	2.393		4.6	30
1,3-Dichlorobenzene	2.729	2.913		-6.7	30
1,4-Dichlorobenzene	2.470	2.787		-12.8	30
sec-Butylbenzene	4.432	4.475		-1.0	30
4-Isopropyltoluene	4.319	4.422		-2.4	30
1,2-Dichlorobenzene	2.545	2.832		-11.3	30
n-Butylbenzene	3.462	3.399		1.8	30
1,2,4-Trichlorobenzene	2.490	2.622		-5.3	30
Hexachlorobutadiene	2.543	3.105		-22.1	30
1,2-Dichlorotetrafluoroethane(sim)	2.805	2.496		11.0	30
Vinyl Chloride(sim)	0.911	0.728		20.1	30
Bromomethane(sim)	1.125	0.946		15.9	30
Trichlorofluoromethane(sim)	2.806	2.960		-5.5	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.: GCN54079

Instrument: CHEM39 Calibration Date: 03/07/23 Time: 11:09

Lab File Id: 0307_01.D Init. Calib. Date(s): 03/02/23 03/03/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:58 01:32

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.192	1.080		9.4	30
1,1,1-Trichloroethane(sim)	2.310	2.276		1.5	30
Benzene(sim)	3.215	2.576		19.9	30
Carbon Tetrachloride(sim)	2.512	2.503		0.4	30
1,1-Dichloroethene(sim)	1.443	1.247		13.6	30
Trichlorotrifluoroethane(sim)	2.422	2.242		7.4	30
Trans-1,2-Dichloroethene(sim)	1.337	1.099		17.8	30
1,1-Dichloroethane(sim)	1.700	1.424		16.2	30
Cis-1,2-Dichloroethene(sim)	1.256	1.000		20.4	30
Chloroform(sim)	2.399	2.073		13.6	30
1,2-dichloropropane(sim)	0.310	0.248		20.0	30
Bromodichloromethane(sim)	0.592	0.561		5.2	30
Trichloroethene(sim)	0.458	0.440		3.9	30
1,4-Dioxane(sim)	0.171	0.164		4.1	30
cis-1,3-Dichloropropene(sim)	0.464	0.395		14.9	30
1,1,2-Trichloroethane(sim)	0.388	0.345		11.1	30
Dibromochloromethane(sim)	0.750	0.767		-2.3	30
1,2-Dibromoethane(EDB)(sim)	0.630	0.574		8.9	30
Tetrachloroethene(sim)	0.678	0.661		2.5	30
Bromoform(sim)	2.051	2.169		-5.8	30
m,p-Xylene(sim)	2.460	2.339		4.9	30
1,1,2,2-Tetrachloroethane(sim)	2.007	1.833		8.7	30
Benzyl chloride(sim)	2.669	2.393		10.3	30
1,3-Dichlorobenzene(sim)	2.874	3.053		-6.2	30
1,4-Dichlorobenzene(sim)	2.794	2.785		0.3	30
sec-Butylbenzene(sim)	3.377	3.323		1.6	30
4-Isopropyltoluene(sim)	4.361	4.422		-1.4	30
1,2-Dichlorobenzene(sim)	2.813	2.875		-2.2	30
n-Butylbenzene(sim)	3.419	3.399		0.6	30
1,2,4-Trichlorobenzene(sim)	2.670	2.609		2.3	30
Hexachlorobutadiene(sim)	2.527	2.837		-12.3	30
% Bromofluorobenzene	1.479	1.563		-5.7	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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_01.D
 Acq On : 7 Mar 2023 11:09 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 08 09:25:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:24 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. 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	89
2	Propylene	0.480	0.395	17.7	
3	Dichlorodifluoromethane	2.361	2.437	-3.2	
4	Chloromethane	0.573	0.485	15.4	
5	1,2-Dichlorotetrafluoroetha	2.414	2.390	1.0	
6	Vinyl Chloride	0.756	0.667	11.8	
7	1,3-Butadiene	0.513	0.450	12.3	
8	Bromomethane	0.951	0.905	4.8	
9	Chloroethane	0.349	0.302	13.5	
11	Ethanol	0.177	0.165	6.8	
12	Acetone	0.907	0.896	1.2	
13	Trichlorofluoromethane	2.506	2.816	-12.4	
14	Isopropylalcohol	1.062	1.014	4.5	
15	Acrylonitrile	0.495	0.442	10.7	
16	1,1-Dichloroethene	1.199	1.193	0.5	
17	Methylene Chloride	0.731	0.709	3.0	
20	Carbon Disulfide	2.431	2.290	5.8	
21	Trichlorotrifluoroethane	2.123	2.189	-3.1	
22	Trans-1,2-Dichloroethene	1.153	1.052	8.8	
23	1,1-Dichloroethane	1.425	1.297	9.0	
24	Methyl tert-butyl ether(MTB)	2.288	1.964	14.2	
26	Methyl Ethyl Ketone	1.237	1.040	15.9	
27	Cis-1,2-Dichloroethene	1.095	0.956	12.7	
28	Hexane	1.139	0.864	24.1	
29	Chloroform	1.970	1.948	1.1	
30	Ethyl acetate	0.347	0.278	19.9	
31	Tetrahydrofuran	0.716	0.514	28.2	
32	1,2-Dichloroethane	1.029	1.033	-0.4	
33	1,1,1-Trichloroethane	1.998	2.067	-3.5	
34	Benzene	2.916	2.465	15.5	
35	Carbon Tetrachloride	2.315	2.444	-5.6	
36	Cyclohexane	1.162	1.028	11.5	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	84
38	1,2-dichloropropane	0.270	0.248	8.1	
39	Bromodichloromethane	0.548	0.559	-2.0	
40	Trichloroethene	0.444	0.454	-2.3	
42	1,4-Dioxane	0.170	0.164	3.5	
44	Heptane	0.325	0.245	24.6	
45	cis-1,3-Dichloropropene	0.423	0.367	13.2	
46	4-Methyl-2-pentanone(MIBK)	0.406	0.360	11.3	
47	trans-1,3-Dichloropropene	0.387	0.341	11.9	
48	1,1,2-Trichloroethane	0.353	0.344	2.5	
49	Toluene	1.038	0.942	9.2	
50	Dibromochloromethane	0.762	0.803	-5.4	
51	2-Hexanone(MBK)	0.390	0.339	13.1	
52	1,2-Dibromoethane(EDB)	0.601	0.575	4.3	
53	Tetrachloroethene	0.676	0.714	-5.6	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	83
55	1,1,1,2-Tetrachloroethane	1.167	1.311	-12.3	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_01.D
 Acq On : 7 Mar 2023 11:09 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 08 09:25:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:24 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
56	Chlorobenzene	2.101	2.203	-4.9	
57	Ethylbenzene	3.017	2.754	8.7	
58	m,p-Xylene	2.342	1.864	20.4	
59	Bromoform	2.225	2.402	-8.0	
60	Styrene	1.913	1.715	10.4	
61	1,1,2,2-Tetrachloroethane	1.809	1.770	2.2	
62	o-Xylene	2.419	2.381	1.6	
63	Surr % Bromofluorobenzene	1.479	1.563	-5.7	
65	Isopropylbenzene	3.516	3.642	-3.6	
67	4-Ethyltoluene	3.829	3.686	3.7	
68	1,3,5-Trimethylbenzene	2.965	3.141	-5.9	
69	1,2,4-Trimethylbenzene	3.152	3.061	2.9	
71	Benzyl chloride	2.508	2.393	4.6	
72	1,3-Dichlorobenzene	2.729	2.913	-6.7	
73	1,4-Dichlorobenzene	2.470	2.787	-12.8	
74	sec-Butylbenzene	4.432	4.475	-1.0	
75	4-Isopropyltoluene	4.319	4.422	-2.4	
76	1,2-Dichlorobenzene	2.545	2.832	-11.3	
77	n-Butylbenzene	3.462	3.399	1.8	
78	1,2,4-Trichlorobenzene	2.490	2.622	-5.3	
80	Hexachlorobutadiene	2.543	3.105	-22.1	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	91
82	1,2-Dichlorotetrafluoroetha	2.805	2.496	11.0	
83	Vinyl Chloride(sim)	0.911	0.728	20.1	
84	Bromomethane(sim)	1.125	0.946	15.9	
85	Trichlorofluoromethane(sim)	2.806	2.960	-5.5	
86	1,2-Dichloroethane(sim)	1.192	1.080	9.4	
87	1,1,1-Trichloroethane(sim)	2.310	2.276	1.5	
88	Benzene(sim)	3.215	2.576	19.9	
89	Carbon Tetrachloride(sim)	2.512	2.503	0.4	
90	1,1-Dichloroethene(sim)	1.443	1.247	13.6	
91	Trichlorotrifluoroethane(si	2.422	2.242	7.4	
92	Trans-1,2-Dichloroethene(si	1.337	1.099	17.8	
93	1,1-Dichloroethane(sim)	1.700	1.424	16.2	
94	Cis-1,2-Dichloroethene(sim)	1.256	1.000	20.4	
95	Chloroform(sim)	2.399	2.073	13.6	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	84
97	1,2-dichloropropane(sim)	0.310	0.248	20.0	
98	Bromodichloromethane(sim)	0.592	0.561	5.2	
99	Trichloroethene(sim)	0.458	0.440	3.9	
100	1,4-Dioxane(sim)	0.171	0.164	4.1	
101	cis-1,3-Dichloropropene(sim	0.464	0.395	14.9	
102	1,1,2-Trichloroethane(sim)	0.388	0.345	11.1	
103	Dibromochloromethane(sim)	0.750	0.767	-2.3	
104	1,2-Dibromoethane(EDB)(sim)	0.630	0.574	8.9	
105	Tetrachloroethene(sim)	0.678	0.661	2.5	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	83
107	Bromoform(sim)	2.051	2.169	-5.8	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_01.D
 Acq On : 7 Mar 2023 11:09 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 08 09:25:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:24 2023
 Response via : Initial Calibration

Note: Curves (l, lf, q, qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
108	m,p-Xylene(sim)	2.460	2.339	4.9
109	1,1,2,2-Tetrachloroethane(s	2.007	1.833	8.7
112	Benzyl chloride(sim)	2.669	2.393	10.3
113	1,3-Dichlorobenzene(sim)	2.874	3.053	-6.2
114	1,4-Dichlorobenzene(sim)	2.794	2.785	0.3
115	sec-Butylbenzene(sim)	3.377	3.323	1.6
116	4-Isopropyltoluene(sim)	4.361	4.422	-1.4
117	1,2-Dichlorobenzene(sim)	2.813	2.875	-2.2
118	n-Butylbenzene(sim)	3.419	3.399	0.6
119	1,2,4-Trichlorobenzene(sim)	2.670	2.609	2.3
121	Hexachlorobutadiene(sim)	2.527	2.837	-12.3

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_01.D
 Acq On : 7 Mar 2023 11:09 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 08 09:25:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:24 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	327985	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1197316	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	492706	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	313745	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1197316	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	492706	10.000	ng	# 0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	770056	10.566	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.70%

Target Compounds						Qvalue
2) Propylene	4.032	41	12949	0.822	ppbv	99
3) Dichlorodifluoromethane	4.097	85	79918	1.032	ppbv	98
4) Chloromethane	4.251	50	15917	0.847	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.349	85	78388	0.990	ppbv	99
6) Vinyl Chloride	4.462	62	21880	0.883	ppbv	93
7) 1,3-Butadiene	4.584	54	14754	0.877	ppbv	97
8) Bromomethane	4.827	94	29692	0.952	ppbv#	98
9) Chloroethane	4.973	64	9910	0.865	ppbv	90
11) Ethanol	5.071	45	5425	0.936	ppbv	98
12) Acetone	5.455	43	29401	0.989	ppbv	97
13) Trichlorofluoromethane	5.565	101	92358	1.123	ppbv	99
14) Isopropylalcohol	5.639	45	33271	0.955	ppbv	93
15) Acrylonitrile	5.774	53	14504	0.893	ppbv	98
16) 1,1-Dichloroethene	6.031	61	39120	0.995	ppbv	97
17) Methylene Chloride	6.108	49	23264	0.970	ppbv	96
20) Carbon Disulfide	6.340	76	75118	0.942	ppbv	96
21) Trichlorotrifluoroethane	6.281	101	71809	1.031	ppbv	98
22) Trans-1,2-Dichloroethene	6.739	61	34488	0.912	ppbv	99
23) 1,1-Dichloroethane	6.876	63	42545	0.910	ppbv	99
24) Methyl tert-butyl ethe...	6.936	73	64432	0.859	ppbv	95
26) Methyl Ethyl Ketone	7.140	43	34115	0.841	ppbv#	98
27) Cis-1,2-Dichloroethene	7.418	61	31361	0.873	ppbv	100
28) Hexane	7.537	57	28329	0.758	ppbv	87
29) Chloroform	7.608	83	63888	0.989	ppbv	99
30) Ethyl acetate	7.545	61	9109	0.800	ppbv	91
31) Tetrahydrofuran	7.886	42	16848	0.717	ppbv	97
32) 1,2-Dichloroethane	8.076	62	33877	1.004	ppbv	98
33) 1,1,1-Trichloroethane	8.235	97	67787	1.035	ppbv	99
34) Benzene	8.522	78	80836	0.845	ppbv	97
35) Carbon Tetrachloride	8.609	117	80165	1.056	ppbv	98
36) Cyclohexane	8.687	84	33733	0.885	ppbv	95
38) 1,2-dichloropropane	8.998	63	29705	0.918	ppbv#	89
39) Bromodichloromethane	9.110	83	66968	1.020	ppbv	97
40) Trichloroethene	9.136	130	54313	1.022	ppbv	97
42) 1,4-Dioxane	9.154	88	19590	0.962	ppbv	96
44) Heptane	9.266	43	29279	0.752	ppbv	93
45) cis-1,3-Dichloropropene	9.617	75	43951	0.867	ppbv	96
46) 4-Methyl-2-pentanone(M...	9.645	43	43105	0.887	ppbv	96
47) trans-1,3-Dichloropropene	9.906	75	40840	0.881	ppbv	97
48) 1,1,2-Trichloroethane	10.026	97	41144	0.974	ppbv	96
49) Toluene	10.180	91	112737	0.907	ppbv	98
50) Dibromochloromethane	10.434	129	96094	1.053	ppbv	98

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_01.D
 Acq On : 7 Mar 2023 11:09 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 08 09:25:53 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:24 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.314	43	40620	0.869	ppbv	93
52)	1,2-Dibromoethane(EDB)	10.582	107	68810	0.956	ppbv	96
53)	Tetrachloroethene	10.821	166	85528	1.056	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.185	131	64574	1.123	ppbv	98
56)	Chlorobenzene	11.201	112	108559	1.049	ppbv	94
57)	Ethylbenzene	11.390	91	135693	0.913	ppbv	99
58)	m,p-Xylene	11.481	91	229542	1.989	ppbv	99
59)	Bromoform	11.564	173	118349	1.079	ppbv	99
60)	Styrene	11.686	104	84500	0.896	ppbv	97
61)	1,1,2,2-Tetrachloroethane	11.746	83	87194	0.978	ppbv	98
62)	o-Xylene	11.754	91	117321	0.985	ppbv	98
65)	Isopropylbenzene	12.073	105	179460	1.036	ppbv	99
67)	4-Ethyltoluene	12.445	105	181596	0.963	ppbv	97
68)	1,3,5-Trimethylbenzene	12.483	105	154747	1.059	ppbv	96
69)	1,2,4-Trimethylbenzene	12.733	105	150831	0.971	ppbv	98
71)	Benzyl chloride	12.832	91	117899	0.954	ppbv	99
72)	1,3-Dichlorobenzene	12.855	146	143510	1.067	ppbv	99
73)	1,4-Dichlorobenzene	12.893	146	137325	1.128	ppbv	99
74)	sec-Butylbenzene	12.900	105	220499	1.010	ppbv	99
75)	4-Isopropyltoluene	12.984	119	217852	1.024	ppbv	97
76)	1,2-Dichlorobenzene	13.113	146	139528	1.113	ppbv	98
77)	n-Butylbenzene	13.250	91	167468	0.982	ppbv	98
78)	1,2,4-Trichlorobenzene	14.313	180	129184	1.053	ppbv	98
80)	Hexachlorobutadiene	14.662	225	152982	1.221	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.349	85	78303	0.890	ppbv	99
83)	Vinyl Chloride(sim)	4.465	62	22829	0.799	ppbv	100
84)	Bromomethane(sim)	4.827	94	29692	0.841	ppbv#	98
85)	Trichlorofluoromethane...	5.568	101	92859	1.055	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	33877	0.906	ppbv	98
87)	1,1,1-Trichloroethane(...	8.237	97	71407	0.985	ppbv#	99
88)	Benzene(sim)	8.522	78	80836	0.801	ppbv	97
89)	Carbon Tetrachloride(sim)	8.612	117	78523	0.996	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	39120	0.864	ppbv	98
91)	Trichlorotrifluoroetha...	6.284	101	70326	0.926	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.739	61	34488	0.822	ppbv	99
93)	1,1-Dichloroethane(sim)	6.879	63	44683	0.838	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.418	61	31361	0.796	ppbv	100
95)	Chloroform(sim)	7.603	83	65028	0.864	ppbv	99
97)	1,2-dichloropropane(sim)	9.001	63	29696	0.801	ppbv#	87
98)	Bromodichloromethane(sim)	9.110	83	67113	0.948	ppbv	97
99)	Trichloroethene(sim)	9.131	130	52668	0.960	ppbv	99
100)	1,4-Dioxane(sim)	9.154	88	19590	0.958	ppbv	95
101)	cis-1,3-Dichloropropen...	9.613	75	47277	0.850	ppbv	99
102)	1,1,2-Trichloroethane(...	10.026	97	41267	0.889	ppbv	95
103)	Dibromochloromethane(sim)	10.437	129	91784	1.022	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.582	107	68744	0.911	ppbv	96
105)	Tetrachloroethene(sim)	10.824	166	79107	0.974	ppbv	99
107)	Bromoform(sim)	11.567	173	106857	1.057	ppbv	100
108)	m,p-Xylene(sim)	11.481	91	230518	1.902	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	90295	0.913	ppbv	100
112)	Benzyl chloride(sim)	12.832	91	117899	0.897	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.850	146	150436	1.063	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.893	146	137211	0.997	ppbv	100
115)	sec-Butylbenzene(sim)	12.736	105	163704	0.984	ppbv	99
116)	4-Isopropyltoluene(sim)	12.984	119	217852	1.014	ppbv	97

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_01.D
Acq On : 7 Mar 2023 11:09 am
Operator :
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1ppb ccal - 1ppb ccal
ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 08 09:25:53 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:24 2023
Response via : Initial Calibration

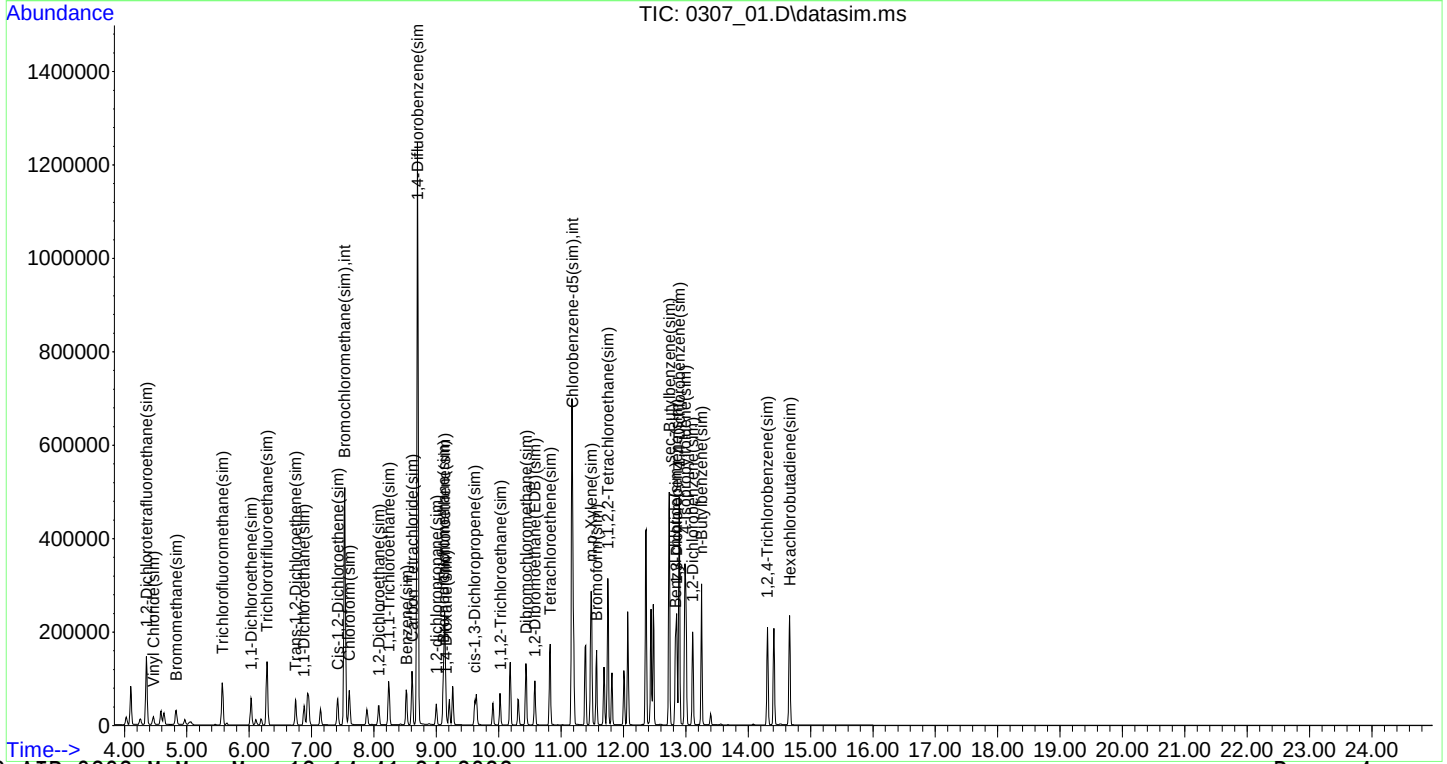
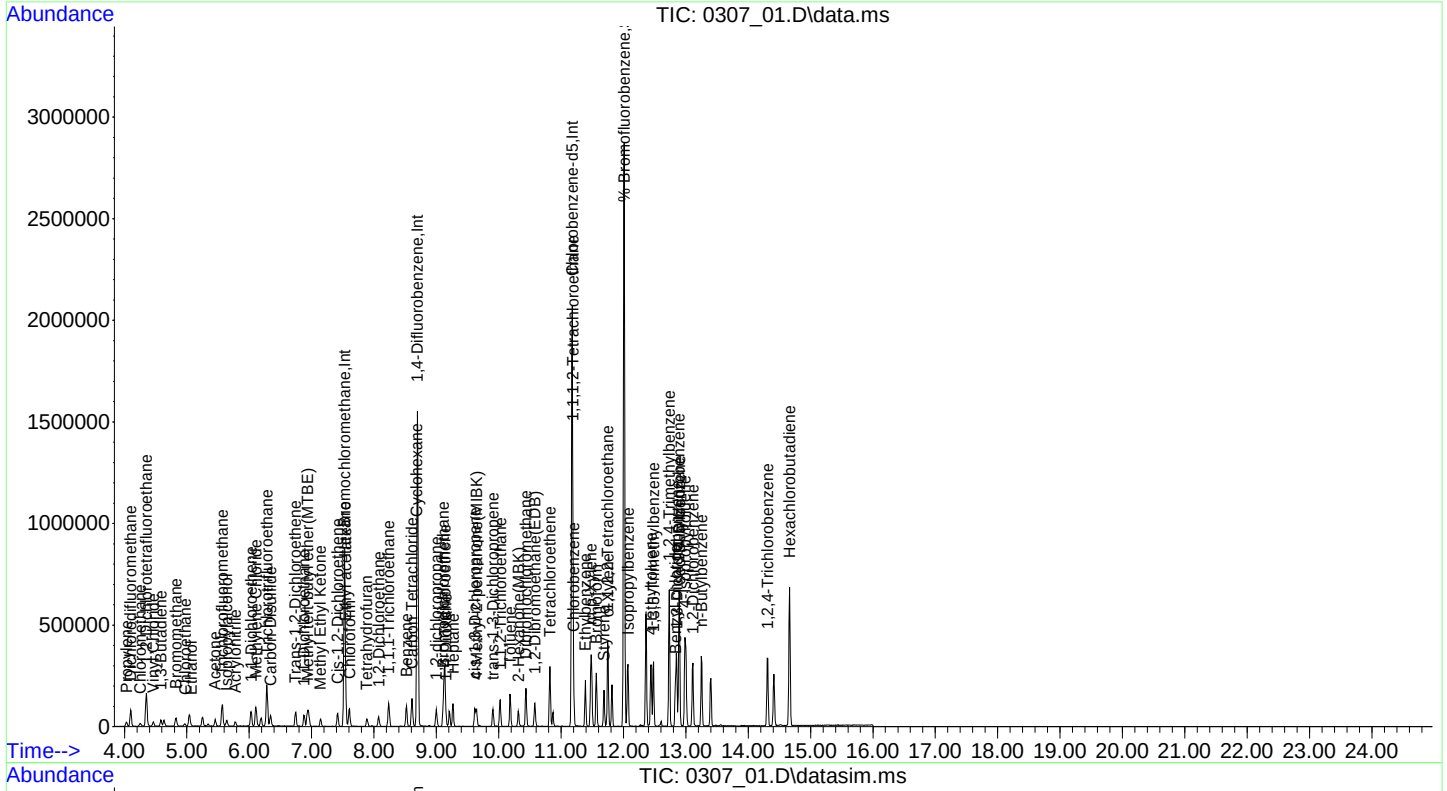
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.108	146	141648	1.022	ppbv	99
118]	n-Butylbenzene(sim)	13.250	91	167468	0.994	ppbv	98
119]	1,2,4-Trichlorobenzene...	14.308	180	128561	0.977	ppbv	99
121]	Hexachlorobutadiene(sim)	14.665	225	139762	1.122	ppbv	100

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

(QT Reviewed)

```
Data Path : H:\AIR2023\CHEM39\03MAR\06\  
Data File : 0307_01.D  
Acq On : 7 Mar 2023 11:09 am  
Operator :  
Client ID : CCAL 1 - BFB TUNE  
Lab ID : 1ppb ccal - 1ppb ccal  
ALS Vial : 31 Sample Multiplier: 1
```

Quant Time: Mar 08 09:25:53 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:24 2023
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.: GCN54079

Instrument: CHEM39 Calibration Date: 03/08/23 Time: 10:50

Lab File Id: 0308_01.D Init. Calib. Date(s): 03/02/23 03/03/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:58 01:32

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Propylene	0.480	0.362		24.6	30
Dichlorodifluoromethane	2.361	2.527		-7.0	30
Chloromethane	0.573	0.474		17.3	30
1,2-Dichlorotetrafluoroethane	2.414	2.269		6.0	30
Vinyl Chloride	0.756	0.649		14.2	30
1,3-Butadiene	0.513	0.430		16.2	30
Bromomethane	0.951	0.950		0.1	30
Chloroethane	0.349	0.325		6.9	30
Ethanol	0.177	0.170		4.0	30
Acetone	0.907	0.890		1.9	30
Trichlorofluoromethane	2.506	2.877		-14.8	30
Isopropylalcohol	1.062	1.011		4.8	30
Acrylonitrile	0.495	0.441		10.9	30
1,1-Dichloroethene	1.199	1.182		1.4	30
Methylene Chloride	0.731	0.707		3.3	30
Carbon Disulfide	2.431	2.274		6.5	30
Trichlorotrifluoroethane	2.123	2.190		-3.2	30
Trans-1,2-Dichloroethene	1.153	1.002		13.1	30
1,1-Dichloroethane	1.425	1.299		8.8	30
Methyl tert-butyl ether(MTBE)	2.288	1.857		18.8	30
Methyl Ethyl Ketone	1.237	1.002		19.0	30
Cis-1,2-Dichloroethene	1.095	0.923		15.7	30
Hexane	1.139	0.837		26.5	30
Chloroform	1.970	1.991		-1.1	30
Ethyl acetate	0.347	0.271		21.9	30
Tetrahydrofuran	0.716	0.504		29.6	30
1,2-Dichloroethane	1.029	1.090		-5.9	30
1,1,1-Trichloroethane	1.998	2.163		-8.3	30
Benzene	2.916	2.535		13.1	30
Carbon Tetrachloride	2.315	2.514		-8.6	30
Cyclohexane	1.162	0.982		15.5	30
1,2-dichloropropane	0.270	0.232		14.1	30
Bromodichloromethane	0.548	0.563		-2.7	30
Trichloroethene	0.444	0.432		2.7	30
1,4-Dioxane	0.170	0.164		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.

7B
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: FPMGROUP

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCN54079

Instrument: CHEM39 Calibration Date: 03/08/23 Time: 10:50

Lab File Id: 0308_01.D Init. Calib. Date(s): 03/02/23 03/03/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:58 01:32

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Heptane	0.325	0.262		19.4	30
cis-1,3-Dichloropropene	0.423	0.376		11.1	30
4-Methyl-2-pentanone(MIBK)	0.406	0.340		16.3	30
trans-1,3-Dichloropropene	0.387	0.346		10.6	30
1,1,2-Trichloroethane	0.353	0.341		3.4	30
Toluene	1.038	0.886		14.6	30
Dibromochloromethane	0.762	0.801		-5.1	30
2-Hexanone(MBK)	0.390	0.312		20.0	30
1,2-Dibromoethane(EDB)	0.601	0.559		7.0	30
Tetrachloroethene	0.676	0.711		-5.2	30
1,1,1,2-Tetrachloroethane	1.167	1.303		-11.7	30
Chlorobenzene	2.101	2.211		-5.2	30
Ethylbenzene	3.017	2.750		8.8	30
m,p-Xylene	2.342	1.853		20.9	30
Bromoform	2.225	2.498		-12.3	30
Styrene	1.913	1.700		11.1	30
1,1,2,2-Tetrachloroethane	1.809	1.801		0.4	30
o-Xylene	2.419	2.390		1.2	30
Isopropylbenzene	3.516	3.615		-2.8	30
4-Ethyltoluene	3.829	3.608		5.8	30
1,3,5-Trimethylbenzene	2.965	3.194		-7.7	30
1,2,4-Trimethylbenzene	3.152	3.050		3.2	30
Benzyl chloride	2.508	2.363		5.8	30
1,3-Dichlorobenzene	2.729	2.911		-6.7	30
1,4-Dichlorobenzene	2.470	2.795		-13.2	30
sec-Butylbenzene	4.432	4.530		-2.2	30
4-Isopropyltoluene	4.319	4.488		-3.9	30
1,2-Dichlorobenzene	2.545	2.771		-8.9	30
n-Butylbenzene	3.462	3.423		1.1	30
1,2,4-Trichlorobenzene	2.490	2.555		-2.6	30
Hexachlorobutadiene	2.543	3.118		-22.6	30
1,2-Dichlorotetrafluoroethane(sim)	2.805	2.328		17.0	30
Vinyl Chloride(sim)	0.911	0.706		22.5	30
Bromomethane(sim)	1.125	0.975		13.3	30
Trichlorofluoromethane(sim)	2.806	3.002		-7.0	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.: GCN54079

Instrument: CHEM39 Calibration Date: 03/08/23 Time: 10:50

Lab File Id: 0308_01.D Init. Calib. Date(s): 03/02/23 03/03/23

Heated Purge (Y/N): Y Init. Calib. Times: 16:58 01:32

GC Column: RTX-1 ; #10157 Method File: 39_AIR_0303.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
1,2-Dichloroethane(sim)	1.192	1.119		6.1	30
1,1,1-Trichloroethane(sim)	2.310	2.287		1.0	30
Benzene(sim)	3.215	2.601		19.1	30
Carbon Tetrachloride(sim)	2.512	2.543		-1.2	30
1,1-Dichloroethene(sim)	1.443	1.212		16.0	30
Trichlorotrifluoroethane(sim)	2.422	2.235		7.7	30
Trans-1,2-Dichloroethene(sim)	1.337	1.028		23.1	30
1,1-Dichloroethane(sim)	1.700	1.376		19.1	30
Cis-1,2-Dichloroethene(sim)	1.256	0.947		24.6	30
Chloroform(sim)	2.399	2.067		13.8	30
1,2-dichloropropane(sim)	0.310	0.242		21.9	30
Bromodichloromethane(sim)	0.592	0.563		4.9	30
Trichloroethene(sim)	0.458	0.440		3.9	30
1,4-Dioxane(sim)	0.171	0.164		4.1	30
cis-1,3-Dichloropropene(sim)	0.464	0.390		15.9	30
1,1,2-Trichloroethane(sim)	0.388	0.341		12.1	30
Dibromochloromethane(sim)	0.750	0.772		-2.9	30
1,2-Dibromoethane(EDB)(sim)	0.630	0.556		11.7	30
Tetrachloroethene(sim)	0.678	0.666		1.8	30
Bromoform(sim)	2.051	2.199		-7.2	30
m,p-Xylene(sim)	2.460	2.332		5.2	30
1,1,2,2-Tetrachloroethane(sim)	2.007	1.828		8.9	30
Benzyl chloride(sim)	2.669	2.363		11.5	30
1,3-Dichlorobenzene(sim)	2.874	3.040		-5.8	30
1,4-Dichlorobenzene(sim)	2.794	2.797		-0.1	30
sec-Butylbenzene(sim)	3.377	3.310		2.0	30
4-Isopropyltoluene(sim)	4.361	4.495		-3.1	30
1,2-Dichlorobenzene(sim)	2.813	2.888		-2.7	30
n-Butylbenzene(sim)	3.419	3.423		-0.1	30
1,2,4-Trichlorobenzene(sim)	2.670	2.572		3.7	30
Hexachlorobutadiene(sim)	2.527	2.840		-12.4	30
% Bromofluorobenzene	1.479	1.567		-5.9	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.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. 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	81
2	Propylene	0.480	0.362	24.6	
3	Dichlorodifluoromethane	2.361	2.527	-7.0	
4	Chloromethane	0.573	0.474	17.3	
5	1,2-Dichlorotetrafluoroetha	2.414	2.269	6.0	
6	Vinyl Chloride	0.756	0.649	14.2	
7	1,3-Butadiene	0.513	0.430	16.2	
8	Bromomethane	0.951	0.950	0.1	
9	Chloroethane	0.349	0.325	6.9	
11	Ethanol	0.177	0.170	4.0	
12	Acetone	0.907	0.890	1.9	
13	Trichlorofluoromethane	2.506	2.877	-14.8	
14	Isopropylalcohol	1.062	1.011	4.8	
15	Acrylonitrile	0.495	0.441	10.9	
16	1,1-Dichloroethene	1.199	1.182	1.4	
17	Methylene Chloride	0.731	0.707	3.3	
20	Carbon Disulfide	2.431	2.274	6.5	
21	Trichlorotrifluoroethane	2.123	2.190	-3.2	
22	Trans-1,2-Dichloroethene	1.153	1.002	13.1	
23	1,1-Dichloroethane	1.425	1.299	8.8	
24	Methyl tert-butyl ether(MTB)	2.288	1.857	18.8	
26	Methyl Ethyl Ketone	1.237	1.002	19.0	
27	Cis-1,2-Dichloroethene	1.095	0.923	15.7	
28	Hexane	1.139	0.837	26.5	
29	Chloroform	1.970	1.991	-1.1	
30	Ethyl acetate	0.347	0.271	21.9	
31	Tetrahydrofuran	0.716	0.504	29.6	
32	1,2-Dichloroethane	1.029	1.090	-5.9	
33	1,1,1-Trichloroethane	1.998	2.163	-8.3	
34	Benzene	2.916	2.535	13.1	
35	Carbon Tetrachloride	2.315	2.514	-8.6	
36	Cyclohexane	1.162	0.982	15.5	
37 Int	1,4-Difluorobenzene	1.000	1.000	0.0	77
38	1,2-dichloropropane	0.270	0.232	14.1	
39	Bromodichloromethane	0.548	0.563	-2.7	
40	Trichloroethene	0.444	0.432	2.7	
42	1,4-Dioxane	0.170	0.164	3.5	
44	Heptane	0.325	0.262	19.4	
45	cis-1,3-Dichloropropene	0.423	0.376	11.1	
46	4-Methyl-2-pentanone(MIBK)	0.406	0.340	16.3	
47	trans-1,3-Dichloropropene	0.387	0.346	10.6	
48	1,1,2-Trichloroethane	0.353	0.341	3.4	
49	Toluene	1.038	0.886	14.6	
50	Dibromochloromethane	0.762	0.801	-5.1	
51	2-Hexanone(MBK)	0.390	0.312	20.0	
52	1,2-Dibromoethane(EDB)	0.601	0.559	7.0	
53	Tetrachloroethene	0.676	0.711	-5.2	
54 Int	Chlorobenzene-d5	1.000	1.000	0.0	76
55	1,1,1,2-Tetrachloroethane	1.167	1.303	-11.7	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Note: Curves (l, lf, g, gf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%	
56	Chlorobenzene	2.101	2.211	-5.2	
57	Ethylbenzene	3.017	2.750	8.8	
58	m,p-Xylene	2.342	1.853	20.9	
59	Bromoform	2.225	2.498	-12.3	
60	Styrene	1.913	1.700	11.1	
61	1,1,2,2-Tetrachloroethane	1.809	1.801	0.4	
62	o-Xylene	2.419	2.390	1.2	
63	Surr % Bromofluorobenzene	1.479	1.567	-5.9	
65	Isopropylbenzene	3.516	3.615	-2.8	
67	4-Ethyltoluene	3.829	3.608	5.8	
68	1,3,5-Trimethylbenzene	2.965	3.194	-7.7	
69	1,2,4-Trimethylbenzene	3.152	3.050	3.2	
71	Benzyl chloride	2.508	2.363	5.8	
72	1,3-Dichlorobenzene	2.729	2.911	-6.7	
73	1,4-Dichlorobenzene	2.470	2.795	-13.2	
74	sec-Butylbenzene	4.432	4.530	-2.2	
75	4-Isopropyltoluene	4.319	4.488	-3.9	
76	1,2-Dichlorobenzene	2.545	2.771	-8.9	
77	n-Butylbenzene	3.462	3.423	1.1	
78	1,2,4-Trichlorobenzene	2.490	2.555	-2.6	
80	Hexachlorobutadiene	2.543	3.118	-22.6	
81	int Bromochloromethane(sim)	1.000	1.000	0.0	84
82	1,2-Dichlorotetrafluoroetha	2.805	2.328	17.0	
83	Vinyl Chloride(sim)	0.911	0.706	22.5	
84	Bromomethane(sim)	1.125	0.975	13.3	
85	Trichlorofluoromethane(sim)	2.806	3.002	-7.0	
86	1,2-Dichloroethane(sim)	1.192	1.119	6.1	
87	1,1,1-Trichloroethane(sim)	2.310	2.287	1.0	
88	Benzene(sim)	3.215	2.601	19.1	
89	Carbon Tetrachloride(sim)	2.512	2.543	-1.2	
90	1,1-Dichloroethene(sim)	1.443	1.212	16.0	
91	Trichlorotrifluoroethane(si	2.422	2.235	7.7	
92	Trans-1,2-Dichloroethene(si	1.337	1.028	23.1	
93	1,1-Dichloroethane(sim)	1.700	1.376	19.1	
94	Cis-1,2-Dichloroethene(sim)	1.256	0.947	24.6	
95	Chloroform(sim)	2.399	2.067	13.8	
96	int 1,4-Difluorobenzene(sim)	1.000	1.000	0.0	77
97	1,2-dichloropropane(sim)	0.310	0.242	21.9	
98	Bromodichloromethane(sim)	0.592	0.563	4.9	
99	Trichloroethene(sim)	0.458	0.440	3.9	
100	1,4-Dioxane(sim)	0.171	0.164	4.1	
101	cis-1,3-Dichloropropene(sim	0.464	0.390	15.9	
102	1,1,2-Trichloroethane(sim)	0.388	0.341	12.1	
103	Dibromochloromethane(sim)	0.750	0.772	-2.9	
104	1,2-Dibromoethane(EDB)(sim)	0.630	0.556	11.7	
105	Tetrachloroethene(sim)	0.678	0.666	1.8	
106	int Chlorobenzene-d5(sim)	1.000	1.000	0.0	76
107	Bromoform(sim)	2.051	2.199	-7.2	

Evaluate Continuing Calibration Report

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Note: Curves (l,lf,q,qf) display calculated concentration.
 Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.20min
 Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev Area%
108	m,p-Xylene(sim)	2.460	2.332	5.2
109	1,1,2,2-Tetrachloroethane(s	2.007	1.828	8.9
112	Benzyl chloride(sim)	2.669	2.363	11.5
113	1,3-Dichlorobenzene(sim)	2.874	3.040	-5.8
114	1,4-Dichlorobenzene(sim)	2.794	2.797	-0.1
115	sec-Butylbenzene(sim)	3.377	3.310	2.0
116	4-Isopropyltoluene(sim)	4.361	4.495	-3.1
117	1,2-Dichlorobenzene(sim)	2.813	2.888	-2.7
118	n-Butylbenzene(sim)	3.419	3.423	-0.1
119	1,2,4-Trichlorobenzene(sim)	2.670	2.572	3.7
121	Hexachlorobutadiene(sim)	2.527	2.840	-12.4

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	296213	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1096451	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	450060	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	288717	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1096195	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	450060	10.000	ng	# 0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	705323	10.595	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	105.90%

Target Compounds						Qvalue
2) Propylene	4.032	41	10709	0.753	ppbv	97
3) Dichlorodifluoromethane	4.106	85	74861	1.071	ppbv	99
4) Chloromethane	4.252	50	14043	0.828	ppbv	97
5) 1,2-Dichlorotetrafluor...	4.349	85	67209	0.940	ppbv	92
6) Vinyl Chloride	4.462	62	19220	0.858	ppbv	95
7) 1,3-Butadiene	4.592	54	12744	0.839	ppbv	93
8) Bromomethane	4.827	94	28150	1.000	ppbv#	93
9) Chloroethane	4.965	64	9619	0.930	ppbv	95
11) Ethanol	5.071	45	5044	0.964	ppbv	96
12) Acetone	5.455	43	26354	0.981	ppbv	96
13) Trichlorofluoromethane	5.565	101	85218	1.148	ppbv	100
14) Isopropylalcohol	5.645	45	29949	0.952	ppbv#	93
15) Acrylonitrile	5.780	53	13077	0.892	ppbv	100
16) 1,1-Dichloroethene	6.025	61	35004	0.985	ppbv	100
17) Methylene Chloride	6.108	49	20954	0.967	ppbv	96
20) Carbon Disulfide	6.341	76	67353	0.935	ppbv	99
21) Trichlorotrifluoroethane	6.281	101	64858	1.031	ppbv	97
22) Trans-1,2-Dichloroethene	6.745	61	29678	0.869	ppbv	99
23) 1,1-Dichloroethane	6.882	63	38485	0.912	ppbv	99
24) Methyl tert-butyl ethe...	6.936	73	54997	0.812	ppbv	96
26) Methyl Ethyl Ketone	7.140	43	29688	0.810	ppbv	99
27) Cis-1,2-Dichloroethene	7.418	61	27330	0.842	ppbv	97
28) Hexane	7.537	57	24802	0.735	ppbv#	80
29) Chloroform	7.608	83	58986	1.011	ppbv	99
30) Ethyl acetate	7.545	61	8018	0.780	ppbv	93
31) Tetrahydrofuran	7.886	42	14929	0.704	ppbv	94
32) 1,2-Dichloroethane	8.076	62	32299	1.060	ppbv#	95
33) 1,1,1-Trichloroethane	8.235	97	64074	1.083	ppbv	97
34) Benzene	8.522	78	75084	0.869	ppbv	99
35) Carbon Tetrachloride	8.608	117	74458	1.086	ppbv	96
36) Cyclohexane	8.686	84	29076	0.845	ppbv	93
38) 1,2-dichloropropane	8.997	63	25432	0.858	ppbv#	83
39) Bromodichloromethane	9.110	83	61683	1.026	ppbv	96
40) Trichloroethene	9.136	130	47385	0.974	ppbv	94
42) 1,4-Dioxane	9.153	88	17938	0.962	ppbv	98
44) Heptane	9.265	43	28707	0.805	ppbv	96
45) cis-1,3-Dichloropropene	9.617	75	41271	0.889	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.645	43	37320	0.839	ppbv	95
47) trans-1,3-Dichloropropene	9.905	75	37980	0.895	ppbv	98
48) 1,1,2-Trichloroethane	10.025	97	37434	0.968	ppbv	97
49) Toluene	10.180	91	97102	0.853	ppbv	99
50) Dibromochloromethane	10.440	129	87776	1.051	ppbv	99

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.314	43	34251	0.800	ppbv	98
52)	1,2-Dibromoethane(EDB)	10.581	107	61313	0.931	ppbv	96
53)	Tetrachloroethene	10.820	166	77987	1.052	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.185	131	58659	1.117	ppbv	99
56)	Chlorobenzene	11.200	112	99494	1.052	ppbv	94
57)	Ethylbenzene	11.389	91	123754	0.911	ppbv	99
58)	m,p-Xylene	11.480	91	208510	1.978	ppbv	99
59)	Bromoform	11.564	173	112406	1.122	ppbv	99
60)	Styrene	11.685	104	76526	0.889	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.746	83	81047	0.996	ppbv	98
62)	o-Xylene	11.753	91	107578	0.988	ppbv	98
65)	Isopropylbenzene	12.072	105	162709	1.028	ppbv	99
67)	4-Ethyltoluene	12.444	105	162365	0.942	ppbv	94
68)	1,3,5-Trimethylbenzene	12.482	105	143729	1.077	ppbv	96
69)	1,2,4-Trimethylbenzene	12.733	105	137267	0.968	ppbv	97
71)	Benzyl chloride	12.831	91	106367	0.942	ppbv	95
72)	1,3-Dichlorobenzene	12.854	146	131007	1.066	ppbv	98
73)	1,4-Dichlorobenzene	12.892	146	125802	1.132	ppbv	99
74)	sec-Butylbenzene	12.900	105	203885	1.022	ppbv	99
75)	4-Isopropyltoluene	12.983	119	201979	1.039	ppbv	98
76)	1,2-Dichlorobenzene	13.112	146	124726	1.089	ppbv	98
77)	n-Butylbenzene	13.257	91	154036	0.989	ppbv	97
78)	1,2,4-Trichlorobenzene	14.312	180	114969	1.026	ppbv	100
80)	Hexachlorobutadiene	14.662	225	140312	1.226	ppbv	98
82)	1,2-Dichlorotetrafluor...	4.349	85	67209	0.830	ppbv	92
83)	Vinyl Chloride(sim)	4.465	62	20390	0.775	ppbv	99
84)	Bromomethane(sim)	4.827	94	28150	0.867	ppbv#	93
85)	Trichlorofluoromethane...	5.568	101	86679	1.070	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	32299	0.939	ppbv#	95
87)	1,1,1-Trichloroethane(...	8.238	97	66033	0.990	ppbv#	99
88)	Benzene(sim)	8.522	78	75084	0.809	ppbv	99
89)	Carbon Tetrachloride(sim)	8.611	117	73407	1.012	ppbv	100
90)	1,1-Dichloroethene(sim)	6.025	61	35004	0.840	ppbv	100
91)	Trichlorotrifluoroetha...	6.284	101	64542	0.923	ppbv#	97
92)	Trans-1,2-Dichloroethe...	6.745	61	29678	0.769	ppbv	99
93)	1,1-Dichloroethane(sim)	6.879	63	39723	0.809	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.418	61	27330	0.754	ppbv	97
95)	Chloroform(sim)	7.603	83	59678	0.862	ppbv	99
97)	1,2-dichloropropane(sim)	9.000	63	26561	0.782	ppbv#	84
98)	Bromodichloromethane(sim)	9.110	83	61683	0.951	ppbv	97
99)	Trichloroethene(sim)	9.130	130	48266	0.961	ppbv	99
100)	1,4-Dioxane(sim)	9.153	88	17938	0.958	ppbv	98
101)	cis-1,3-Dichloropropen...	9.620	75	42793	0.841	ppbv	99
102)	1,1,2-Trichloroethane(...	10.025	97	37357	0.879	ppbv	97
103)	Dibromochloromethane(sim)	10.436	129	84673	1.030	ppbv	99
104)	1,2-Dibromoethane(EDB)...	10.581	107	60962	0.882	ppbv	96
105)	Tetrachloroethene(sim)	10.823	166	73022	0.982	ppbv	99
107)	Bromoform(sim)	11.567	173	98953	1.072	ppbv	100
108)	m,p-Xylene(sim)	11.480	91	209894	1.896	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	82290	0.911	ppbv	99
112)	Benzyl chloride(sim)	12.831	91	106367	0.886	ppbv	95
113)	1,3-Dichlorobenzene(sim)	12.849	146	136827	1.058	ppbv	99
114)	1,4-Dichlorobenzene(sim)	12.892	146	125899	1.001	ppbv	99
115)	sec-Butylbenzene(sim)	12.735	105	148978	0.980	ppbv	99
116)	4-Isopropyltoluene(sim)	12.983	119	202310	1.031	ppbv	98

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_01.D
Acq On : 8 Mar 2023 10:50 am
Operator :
Client ID : CCAL 1 - BFB TUNE
Lab ID : 1ppb ccal - 1ppb ccal
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration

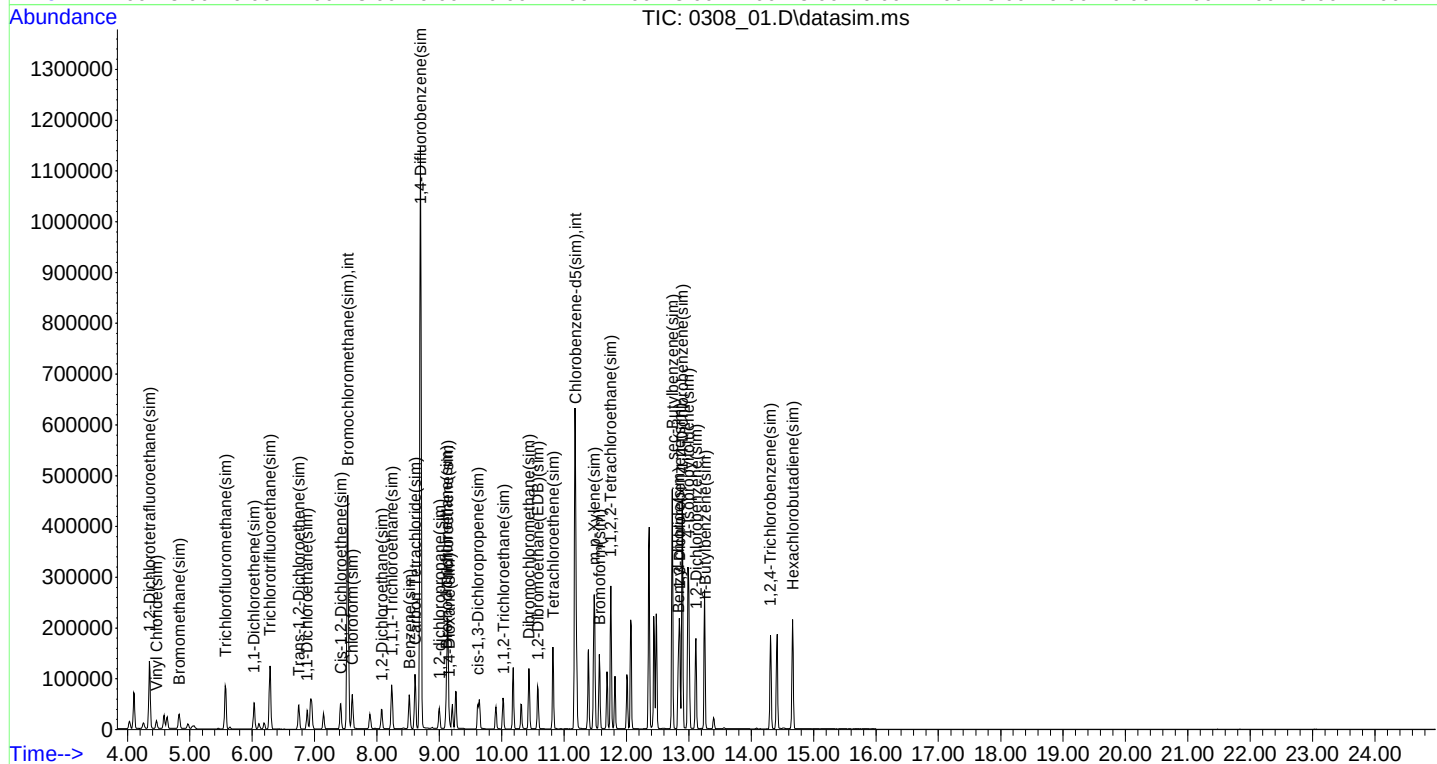
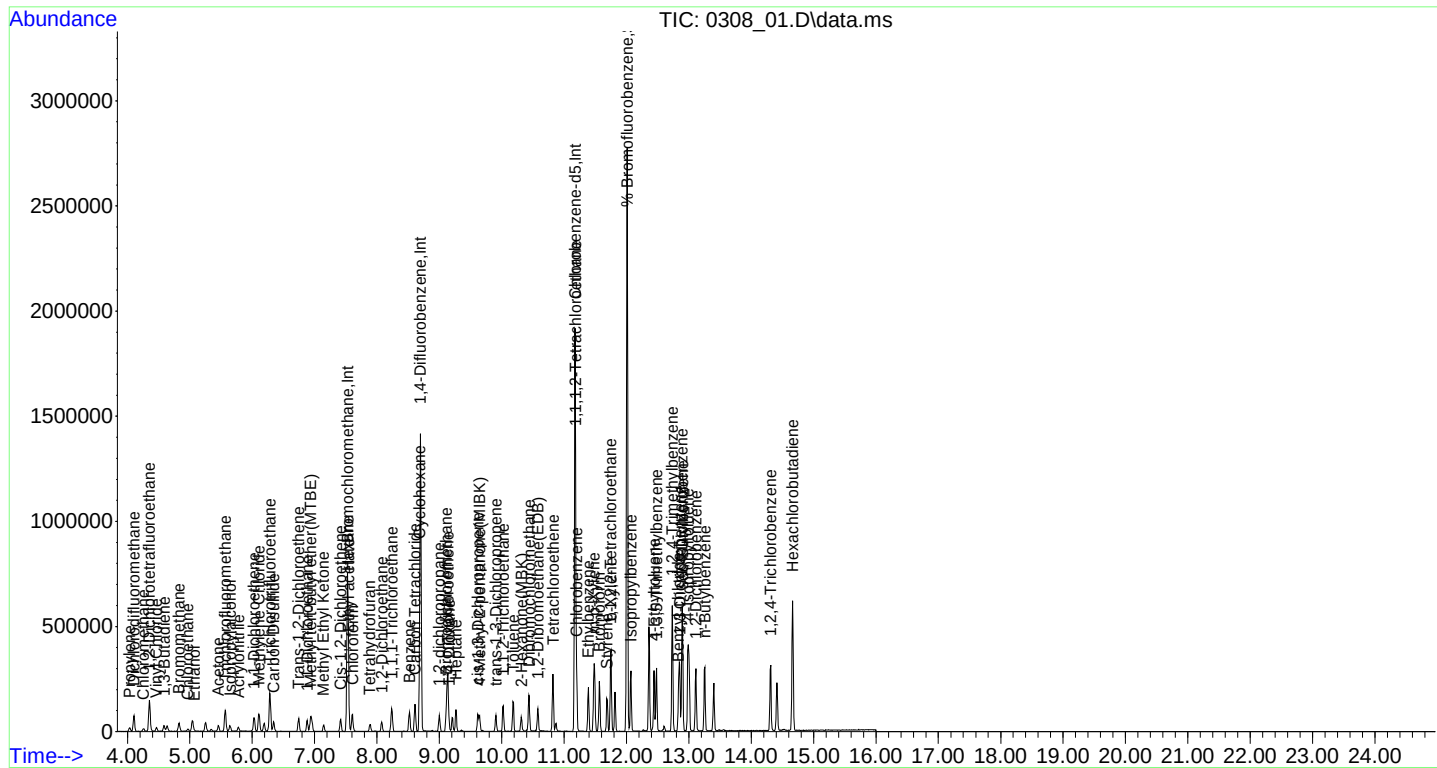
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.115	146	129959	1.026	ppbv	99
118]	n-Butylbenzene(sim)	13.257	91	154036	1.001	ppbv	97
119]	1,2,4-Trichlorobenzene...	14.308	180	115740	0.963	ppbv	100
121]	Hexachlorobutadiene(sim)	14.664	225	127795	1.124	ppbv	100

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_01.D
 Acq On : 8 Mar 2023 10:50 am
 Operator :
 Client ID : CCAL 1 - BFB TUNE
 Lab ID : 1ppb ccal - 1ppb ccal
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Mar 09 09:19:08 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Last Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53500 LCS</u>
Canister:	<u>LCS</u>	Lab File ID:	<u>0308_03.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/06/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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	8.00		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.9		0.202	0.202	r
74-87-3	Chloromethane	8.43		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.1		0.143	0.143	r
75-01-4	Vinyl Chloride	9.18		0.078	0.078	r
106-99-0	1,3-Butadiene	9.00		0.452	0.452	r
74-83-9	Bromomethane	9.61		0.258	0.258	r
75-00-3	Chloroethane	8.96		0.379	0.379	r
64-17-5	Ethanol	10.9		0.531	0.531	r
67-64-1	Acetone	9.57		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.5		0.178	0.178	r
67-63-0	Isopropylalcohol	9.76		0.407	0.407	r
107-13-1	Acrylonitrile	8.41		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.1		0.051	0.051	r
75-09-2	Methylene Chloride	9.17		0.863	0.863	r
75-15-0	Carbon Disulfide	9.43		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	9.89		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	9.08		0.252	0.252	r
75-34-3	1,1-Dichloroethane	9.18		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	9.46		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	8.38		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	9.16		0.051	0.051	r
110-54-3	Hexane	8.81		0.284	0.284	r
67-66-3	Chloroform	10.1		0.205	0.205	r
141-78-6	Ethyl acetate	6.86		0.278	0.278	r
109-99-9	Tetrahydrofuran	8.17		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.7		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	11.0		0.183	0.183	r
71-43-2	Benzene	8.95		0.313	0.313	r
56-23-5	Carbon Tetrachloride	11.2		0.032	0.032	r
110-82-7	Cyclohexane	8.94		0.291	0.291	r
78-87-5	1,2-dichloropropane	8.76		0.217	0.217	r
75-27-4	Bromodichloromethane	10.4		0.149	0.149	r
79-01-6	Trichloroethene	10.5		0.037	0.037	r
123-91-1	1,4-Dioxane	9.87		0.278	0.278	r
142-82-5	Heptane	8.67		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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN53500 LCS
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53500 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0308_03.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/06/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/08/23</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
10061-01-5	cis-1,3-Dichloropropene	9.87		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	9.33		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.3		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.77		0.183	0.183	r
108-88-3	Toluene	9.66		0.266	0.266	r
124-48-1	Dibromochloromethane	11.0		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	9.50		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.2		0.130	0.130	r
127-18-4	Tetrachloroethene	10.8		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.7		0.146	0.146	r
108-90-7	Chlorobenzene	10.1		0.217	0.217	r
100-41-4	Ethylbenzene	9.96		0.230	0.230	r
179601-23-1	m,p-Xylene	21.2		0.230	0.230	r
75-25-2	Bromoform	11.4		0.097	0.097	r
100-42-5	Styrene	10.6		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	9.59		0.146	0.146	r
95-47-6	o-Xylene	10.5		0.230	0.230	r
98-82-8	Isopropylbenzene	10.5		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.4		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	11.1		0.204	0.204	r
100-44-7	Benzyl chloride	11.0		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.8		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	11.7		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.9		0.182	0.182	r
99-87-6	4-Isopropyltoluene	11.2		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	11.2		0.166	0.166	r
104-51-8	n-Butylbenzene	10.8		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	11.7		0.135	0.135	r
87-68-3	Hexachlorobutadiene	12.3		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_03.D
 Acq On : 8 Mar 2023 12:05 pm
 Operator :
 Client ID : CN53500 LCS
 Lab ID : CN53500 LCS
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 09 09:19:25 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	316254	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1196182	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	514855	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	304468	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1196182	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	514929	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	771594	10.131	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.30%

Target Compounds						Qvalue
2) Propylene	4.041	41	121599	8.004	ppbv	96
3) Dichlorodifluoromethane	4.114	85	811685	10.872	ppbv	100
4) Chloromethane	4.268	50	152774	8.433	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.357	85	772825	10.125	ppbv	96
6) Vinyl Chloride	4.471	62	219493	9.182	ppbv	99
7) 1,3-Butadiene	4.592	54	145952	8.997	ppbv	96
8) Bromomethane	4.836	94	288973	9.613	ppbv#	99
9) Chloroethane	4.974	64	98925	8.955	ppbv	99
11) Ethanol	5.063	45	61085	10.929	ppbv	96
12) Acetone	5.443	43	274301	9.567	ppbv	93
13) Trichlorofluoromethane	5.572	101	909331	11.472	ppbv	99
14) Isopropylalcohol	5.627	45	327947	9.761	ppbv	97
15) Acrylonitrile	5.780	53	131724	8.412	ppbv	98
16) 1,1-Dichloroethene	6.037	61	384560	10.139	ppbv	97
17) Methylene Chloride	6.114	49	212194	9.174	ppbv	99
20) Carbon Disulfide	6.347	76	724835	9.427	ppbv	99
21) Trichlorotrifluoroethane	6.287	101	664209	9.894	ppbv	96
22) Trans-1,2-Dichloroethene	6.752	61	331170	9.082	ppbv	99
23) 1,1-Dichloroethane	6.883	63	413707	9.181	ppbv	99
24) Methyl tert-butyl ethe...	6.918	73	684478	9.461	ppbv	98
26) Methyl Ethyl Ketone	7.133	43	327723	8.380	ppbv	99
27) Cis-1,2-Dichloroethene	7.418	61	317182	9.156	ppbv	99
28) Hexane	7.537	57	317369	8.811	ppbv	92
29) Chloroform	7.608	83	628269	10.085	ppbv	99
30) Ethyl acetate	7.529	61	75233	6.856	ppbv	98
31) Tetrahydrofuran	7.878	42	184949	8.167	ppbv	96
32) 1,2-Dichloroethane	8.076	62	347020	10.664	ppbv	96
33) 1,1,1-Trichloroethane	8.243	97	693118	10.971	ppbv	99
34) Benzene	8.522	78	825581	8.953	ppbv	99
35) Carbon Tetrachloride	8.608	117	821634	11.222	ppbv	100
36) Cyclohexane	8.686	84	328315	8.937	ppbv	99
38) 1,2-dichloropropane	8.997	63	283175	8.758	ppbv#	84
39) Bromodichloromethane	9.110	83	680494	10.379	ppbv	99
40) Trichloroethene	9.136	130	556407	10.483	ppbv	99
42) 1,4-Dioxane	9.127	88	200875	9.873	ppbv	97
44) Heptane	9.266	43	337430	8.673	ppbv	99
45) cis-1,3-Dichloropropene	9.617	75	499756	9.865	ppbv	100
46) 4-Methyl-2-pentanone(M...	9.624	43	452811	9.331	ppbv	98
47) trans-1,3-Dichloropropene	9.905	75	474583	10.246	ppbv	100
48) 1,1,2-Trichloroethane	10.025	97	412037	9.766	ppbv	98
49) Toluene	10.180	91	1198973	9.657	ppbv	100
50) Dibromochloromethane	10.433	129	998301	10.954	ppbv	100

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_03.D
 Acq On : 8 Mar 2023 12:05 pm
 Operator :
 Client ID : CN53500 LCS
 Lab ID : CN53500 LCS
 ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 09 09:19:25 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	443258	9.496	ppbv	97
52)	1,2-Dibromoethane(EDB)	10.581	107	729252	10.146	ppbv	99
53)	Tetrachloroethene	10.820	166	875952	10.829	ppbv	98
55)	1,1,1,2-Tetrachloroethane	11.185	131	641466	10.676	ppbv	100
56)	Chlorobenzene	11.200	112	1092952	10.102	ppbv	100
57)	Ethylbenzene	11.390	91	1547608	9.964	ppbv	99
58)	m,p-Xylene	11.481	91	2561379	21.238	ppbv	99
59)	Bromoform	11.564	173	1309072	11.425	ppbv	99
60)	Styrene	11.685	104	1039460	10.553	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.746	83	892907	9.589	ppbv	96
62)	o-Xylene	11.754	91	1307601	10.501	ppbv	100
65)	Isopropylbenzene	12.072	105	1898709	10.490	ppbv	100
67)	4-Ethyltoluene	12.444	105	2058708	10.443	ppbv	96
68)	1,3,5-Trimethylbenzene	12.482	105	1726376	11.308	ppbv	95
69)	1,2,4-Trimethylbenzene	12.733	105	1796393	11.070	ppbv	100
71)	Benzyl chloride	12.831	91	1423265	11.022	ppbv	98
72)	1,3-Dichlorobenzene	12.854	146	1513522	10.770	ppbv	100
73)	1,4-Dichlorobenzene	12.892	146	1483511	11.664	ppbv	100
74)	sec-Butylbenzene	12.900	105	2482234	10.877	ppbv	99
75)	4-Isopropyltoluene	12.983	119	2479633	11.151	ppbv	99
76)	1,2-Dichlorobenzene	13.112	146	1471064	11.227	ppbv	99
77)	n-Butylbenzene	13.249	91	1918002	10.762	ppbv	99
78)	1,2,4-Trichlorobenzene	14.305	180	1501757	11.713	ppbv	100
80)	Hexachlorobutadiene	14.662	225	1608411	12.283	ppbv	100
82)	1,2-Dichlorotetrafluor...	4.357	85	771758	9.036	ppbv	96
83)	Vinyl Chloride(sim)	4.474	62	229107	8.259	ppbv	100
84)	Bromomethane(sim)	4.836	94	288973	8.438	ppbv#	99
85)	Trichlorofluoromethane...	5.574	101	930020	10.888	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	347020	9.565	ppbv	96
87)	1,1,1-Trichloroethane(...	8.238	97	722577	10.275	ppbv#	99
88)	Benzene(sim)	8.522	78	825581	8.435	ppbv	99
89)	Carbon Tetrachloride(sim)	8.611	117	809672	10.586	ppbv	100
90)	1,1-Dichloroethene(sim)	6.037	61	384560	8.756	ppbv	97
91)	Trichlorotrifluoroetha...	6.290	101	669497	9.080	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.752	61	331170	8.134	ppbv	99
93)	1,1-Dichloroethane(sim)	6.885	63	437823	8.458	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.418	61	317182	8.297	ppbv	99
95)	Chloroform(sim)	7.611	83	641819	8.788	ppbv	100
97)	1,2-dichloropropane(sim)	9.000	63	296443	8.000	ppbv#	87
98)	Bromodichloromethane(sim)	9.110	83	680237	9.614	ppbv	99
99)	Trichloroethene(sim)	9.139	130	541721	9.884	ppbv	99
100)	1,4-Dioxane(sim)	9.127	88	200875	9.835	ppbv	97
101)	cis-1,3-Dichloropropen...	9.613	75	524550	9.443	ppbv	99
102)	1,1,2-Trichloroethane(...	10.025	97	412037	8.885	ppbv	97
103)	Dibromochloromethane(sim)	10.436	129	958314	10.681	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.581	107	728146	9.656	ppbv	99
105)	Tetrachloroethene(sim)	10.823	166	812917	10.020	ppbv	99
107)	Bromoform(sim)	11.567	173	1153696	10.924	ppbv	100
108)	m,p-Xylene(sim)	11.481	91	2566296	20.258	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	912177	8.825	ppbv	99
112)	Benzyl chloride(sim)	12.831	91	1423265	10.356	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.850	146	1596312	10.788	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.892	146	1485187	10.322	ppbv	100
115)	sec-Butylbenzene(sim)	12.736	105	1905538	10.958	ppbv	99
116)	4-Isopropyltoluene(sim)	12.983	119	2479633	11.041	ppbv	99

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_03.D
Acq On : 8 Mar 2023 12:05 pm
Operator :
Client ID : CN53500 LCS
Lab ID : CN53500 LCS
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Mar 09 09:19:25 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration

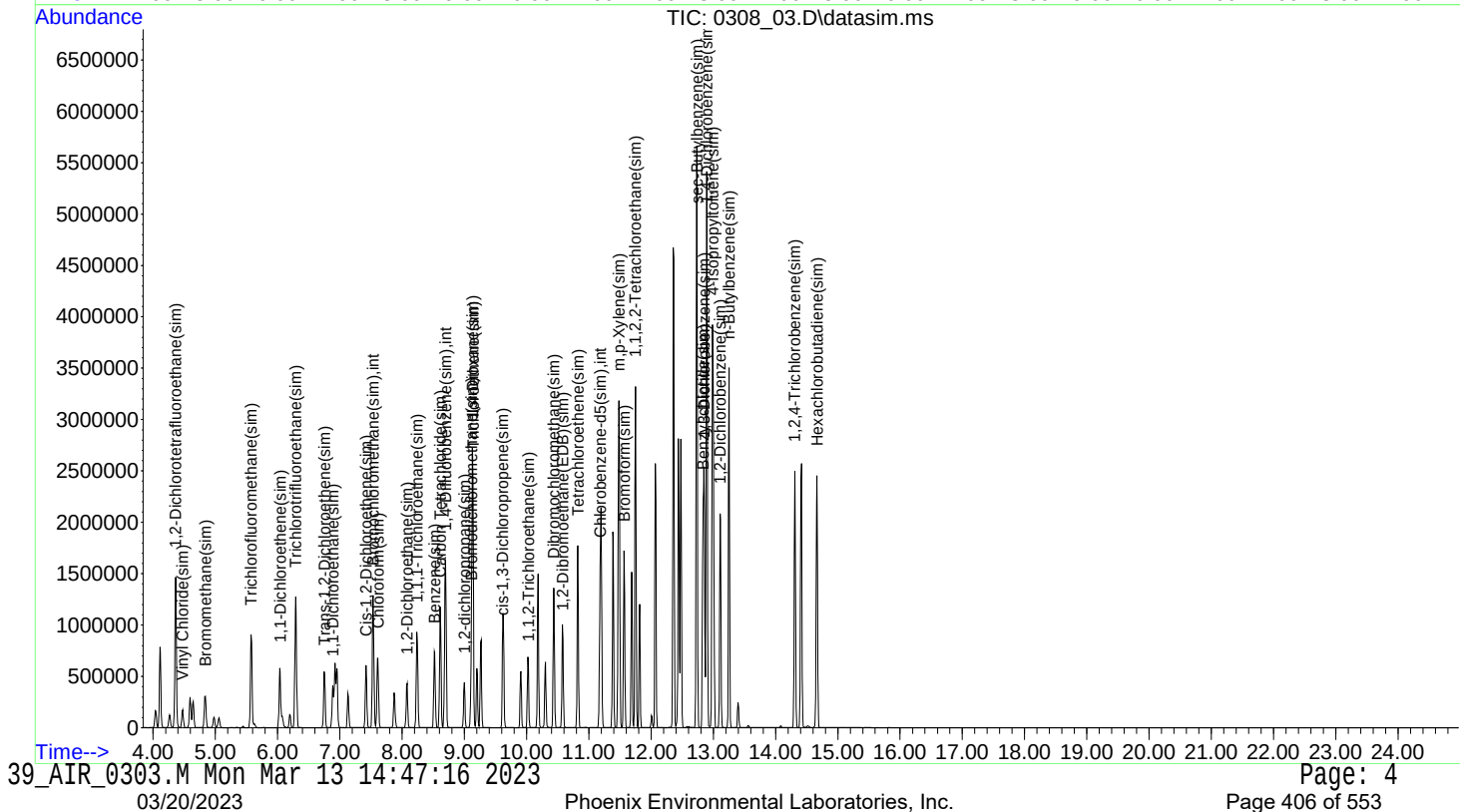
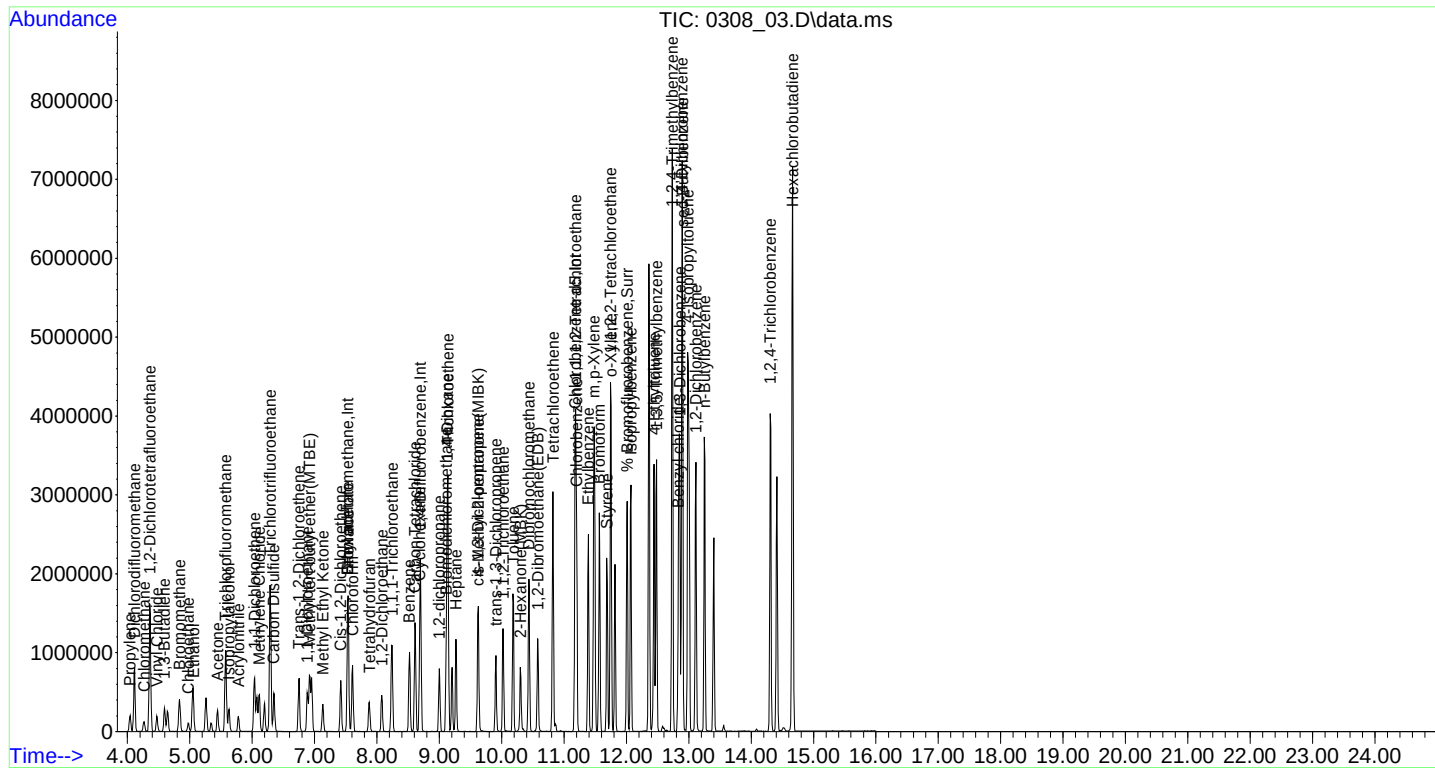
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.108	146	1507564	10.406	ppbv	99
118]	n-Butylbenzene(sim)	13.249	91	1918002	10.894	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.308	180	1503113	10.933	ppbv	100
121]	Hexachlorobutadiene(sim)	14.665	225	1474220	11.328	ppbv	100

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

(QT Reviewed)

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Data Path   : H:\AIR2023\CHEM39\03MAR\06\  
Data File  : 0308_03.D  
Acq On     : 8 Mar 2023 12:05 pm  
Operator   :  
Client ID  : CN53500 LCS  
Lab ID     : CN53500 LCS  
ALS Vial   : 28 Sample Multiplier: 1
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Quant Time: Mar 09 09:19:25 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN53500 QC
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53500</u>	
Canister:	<u>16008</u>	Lab File ID:	<u>0308_06.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/06/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/08/23</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	0.202	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	2.43	S	0.531	0.531	r
67-64-1	Acetone	33.7	S	0.421	0.421	r
67-63-0	Isopropylalcohol	0.598	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	3.68		0.321	0.321	r
75-34-3	1,1-Dichloroethane	0.669		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.778		0.339	0.339	r
110-54-3	Hexane	0.591	S	0.284	0.284	r
67-66-3	Chloroform	21.1		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
71-55-6	1,1,1-Trichloroethane	6.64		0.183	0.183	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride	7.53		0.032	0.032	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	1.17		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	12.1		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	0.728		0.230	0.230	r
179601-23-1	m,p-Xylene	2.91		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.760		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.348		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53500</u>
Canister:	<u>16008</u>	Lab File ID:	<u>0308_06.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/06/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	0.465		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
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	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
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)	0.129		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)	0.182		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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_06.D
 Acq On : 8 Mar 2023 2:01 pm
 Operator :
 Client ID : CN53500 QC
 Lab ID : CN53500 QC
 ALS Vial : 31 Sample Multiplier: 1

Quant Time: Mar 09 09:26:20 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	318765	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1164981	10.000	ng	0.00
54) Chlorobenzene-d5	11.170	82	493881	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	304893	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1164981	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.170	82	493881	10.000	ng	# 0.00

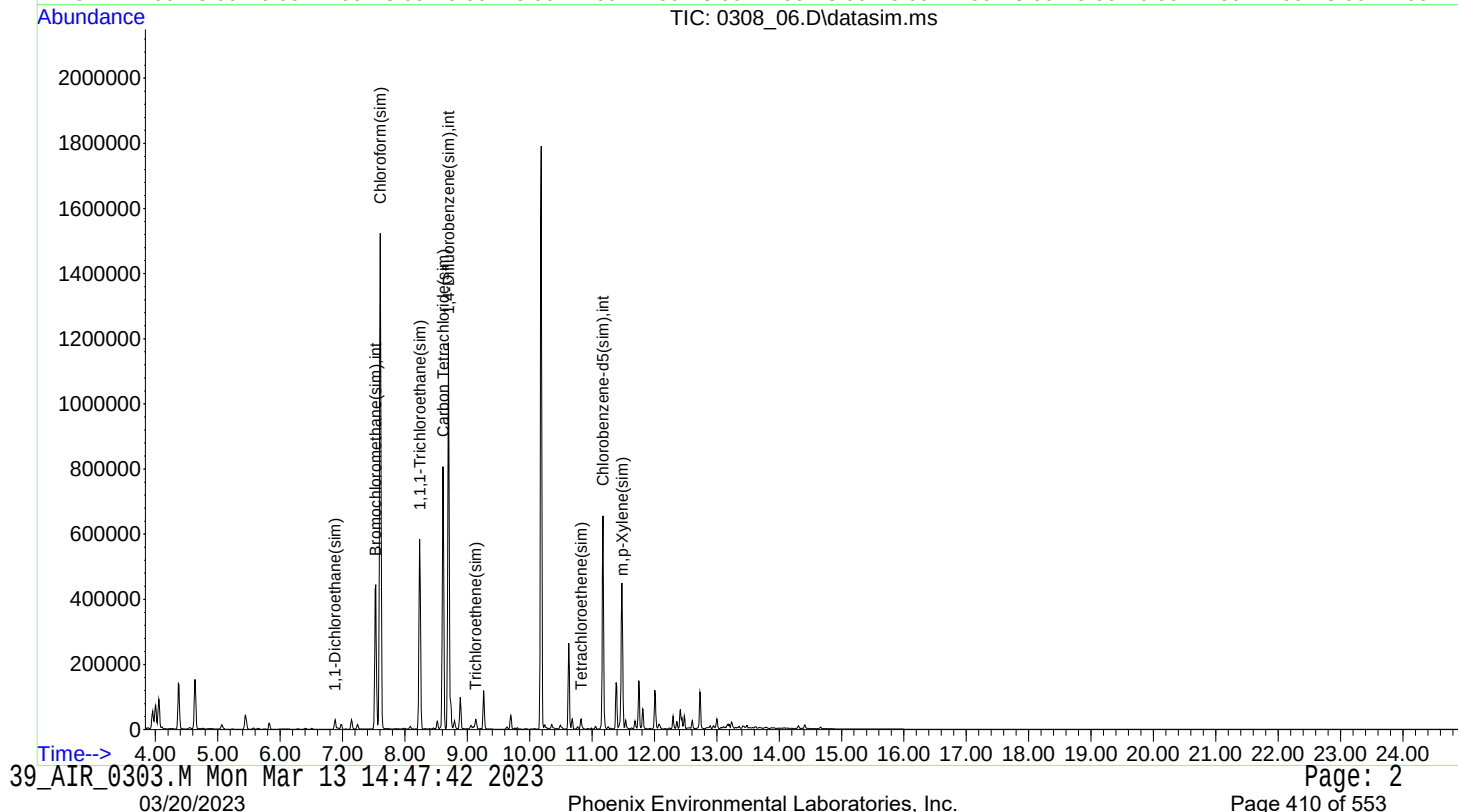
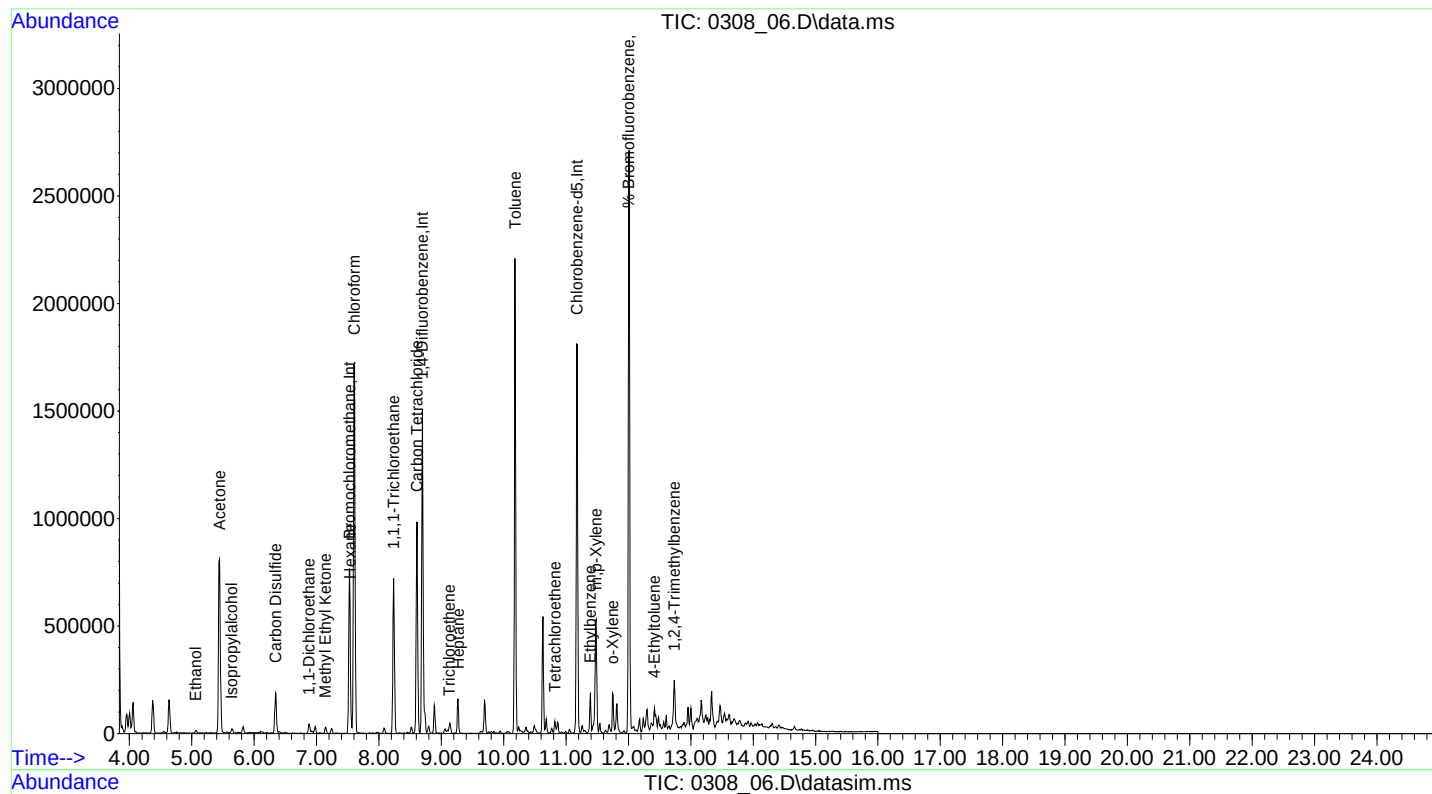
System Monitoring Compounds						
63) % Bromofluorobenzene	12.005	95	752518	10.301	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.00%

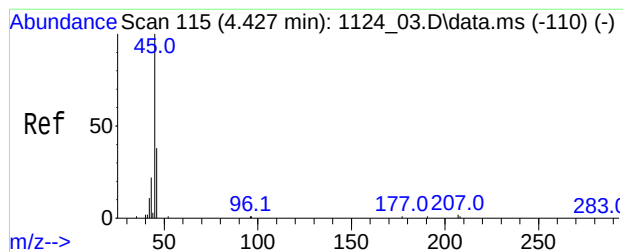
Target Compounds						Qvalue
11) Ethanol	5.063	45	13684	2.429	ppbv	96
12) Acetone	5.443	43	973442	33.685	ppbv	93
14) Isopropylalcohol	5.639	45	20260	0.598	ppbv#	87
20) Carbon Disulfide	6.341	76	284825	3.675	ppbv	99
23) 1,1-Dichloroethane	6.877	63	30399	0.669	ppbv	99
26) Methyl Ethyl Ketone	7.141	43	30657	0.778	ppbv	99
28) Hexane	7.537	57	21472	0.591	ppbv#	86
29) Chloroform	7.600	83	1322893	21.067	ppbv	99
33) 1,1,1-Trichloroethane	8.235	97	422983	6.643	ppbv	99
35) Carbon Tetrachloride	8.609	117	555864	7.532	ppbv	99
40) Trichloroethene	9.128	130	6728	0.130	ppbv	90
44) Heptane	9.266	43	44371	1.171	ppbv	97
49) Toluene	10.181	91	1458450	12.062	ppbv	100
53) Tetrachloroethene	10.821	166	15919	0.202	ppbv	96
57) Ethylbenzene	11.390	91	108459	0.728	ppbv	99
58) m,p-Xylene	11.481	91	336025	2.905	ppbv	99
62) o-Xylene	11.747	91	90745	0.760	ppbv	98
67) 4-Ethyltoluene	12.414	105	65830	0.348	ppbv	95
69) 1,2,4-Trimethylbenzene	12.733	105	72455	0.465	ppbv#	89
87) 1,1,1-Trichloroethane(...)	8.238	97	449023	6.376	ppbv#	100
89) Carbon Tetrachloride(sim)	8.612	117	548922	7.167	ppbv	100
93) 1,1-Dichloroethane(sim)	6.880	63	30917	0.596	ppbv	99
95) Chloroform(sim)	7.603	83	1359959	18.594	ppbv	99
99) Trichloroethene(sim)	9.131	130	6875	0.129	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	14412	0.182	ppbv	99
108) m,p-Xylene(sim)	11.481	91	336771	2.772	ppbv	99

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_06.D
Acq On : 8 Mar 2023 2:01 pm
Operator :
Client ID : CN53500 QC
Lab ID : CN53500 QC
ALS Vial : 31 Sample Multiplier: 1

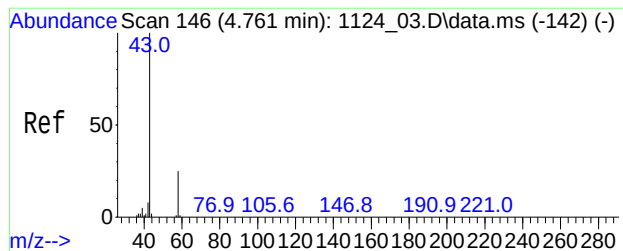
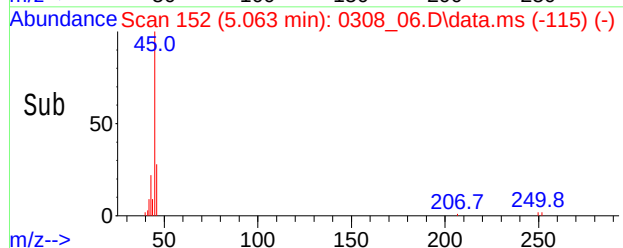
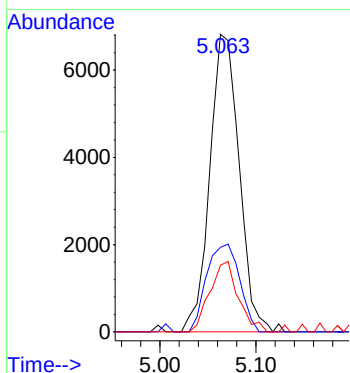
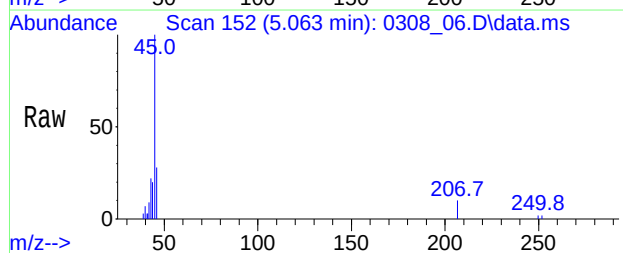
Quant Time: Mar 09 09:26:20 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





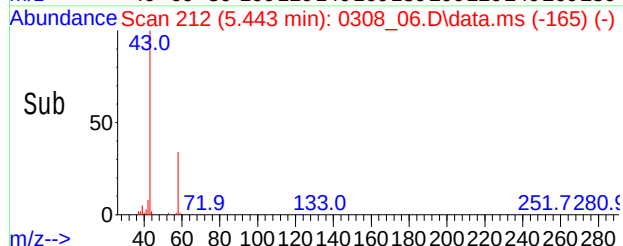
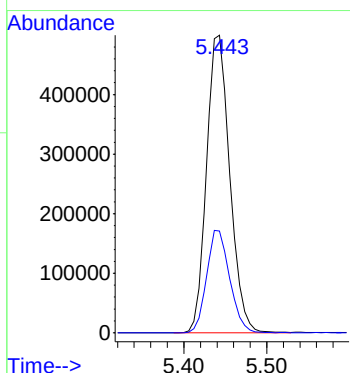
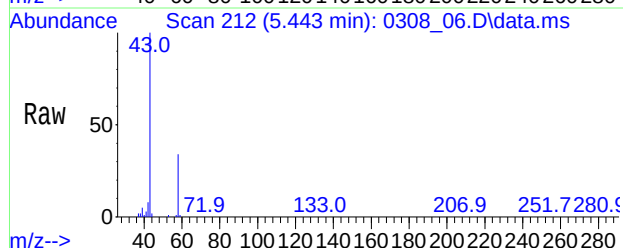
#11
Ethanol
Conc: 8\$ 2.429 ppbv
RT: 5.063 min Scan# 152
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

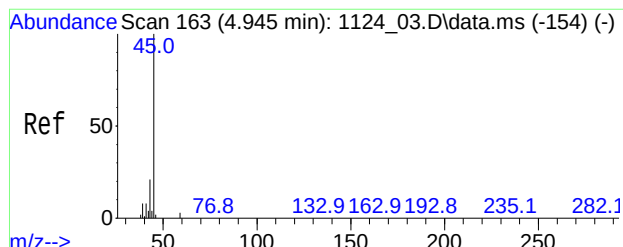
Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.2	27.0	40.4
43	23.9	17.0	25.4



#12
Acetone
Conc: 8\$ 33.685 ppbv
RT: 5.443 min Scan# 212
Delta R.T. -0.012 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

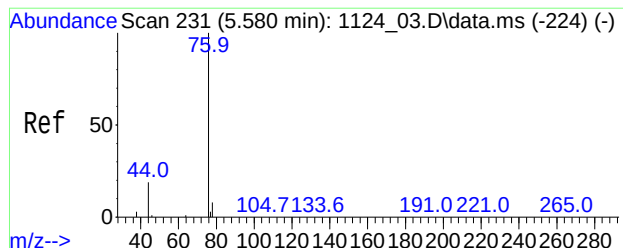
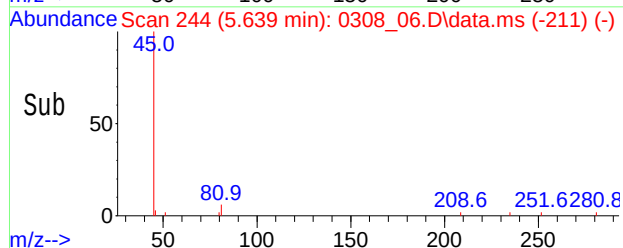
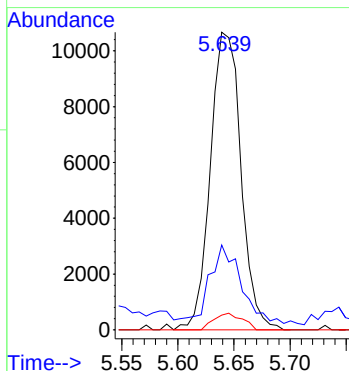
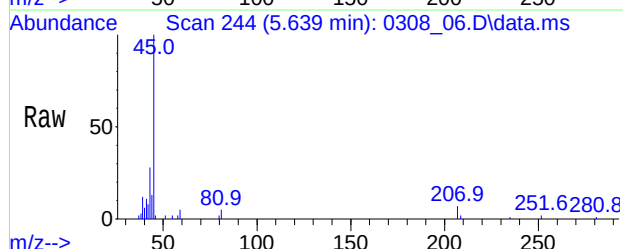
Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.1	30.8	46.2





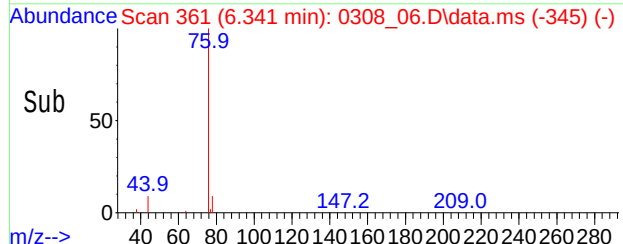
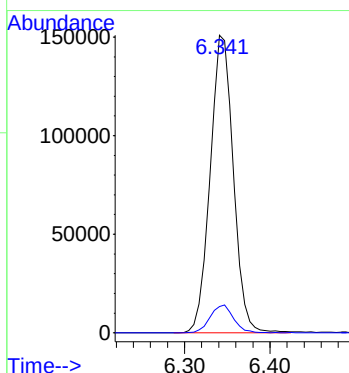
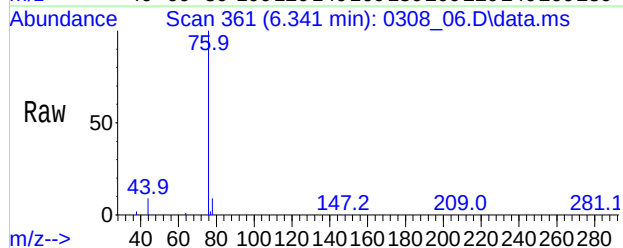
#14
Isopropylalcohol
Conc: 8\$ 0.598 ppbv
RT: 5.639 min Scan# 244
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

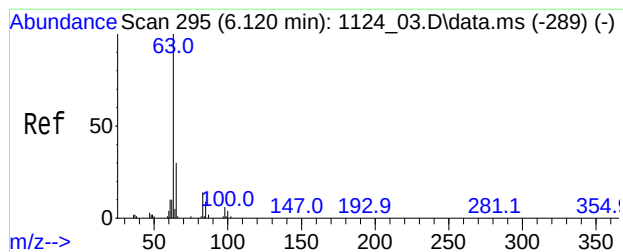
Tgt Ion: 45 Resp: 20260
Ion Ratio Lower Upper
45 100
43 26.7 15.4 23.0#
59 5.2 3.9 5.9



#20
Carbon Disulfide
Conc: 8\$ 3.675 ppbv
RT: 6.341 min Scan# 361
Delta R.T. -0.006 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

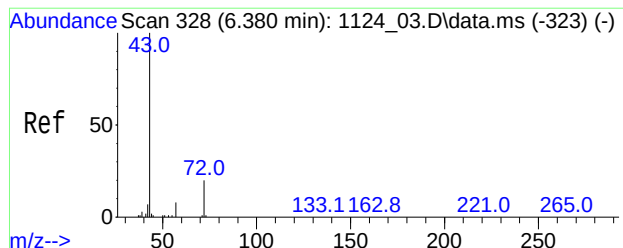
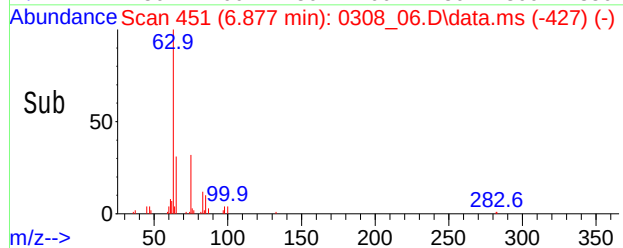
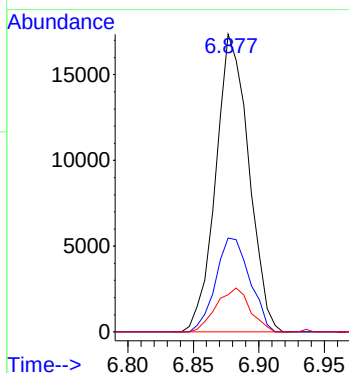
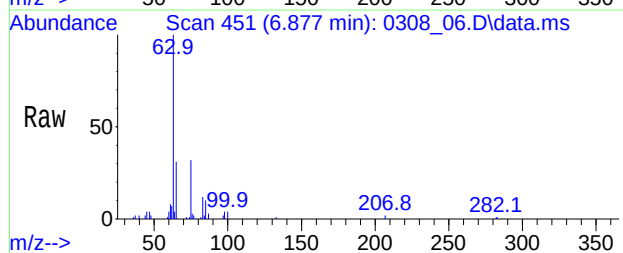
Tgt Ion: 76 Resp: 284825
Ion Ratio Lower Upper
76 100
78 9.4 7.4 11.0





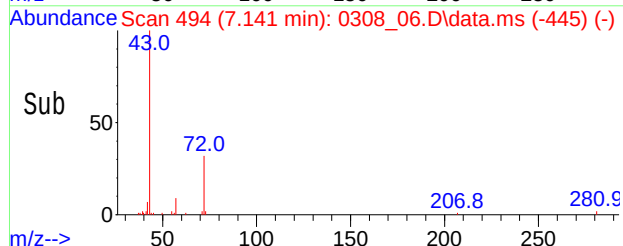
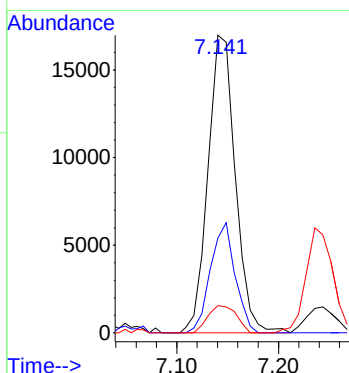
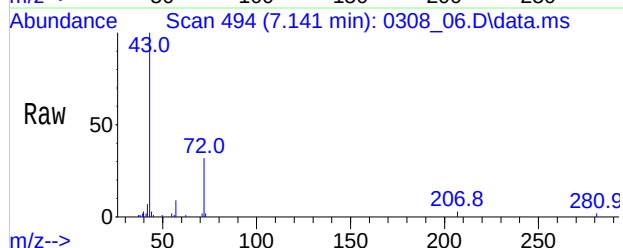
#23
1,1-Dichloroethane
Conc: 8\$ 0.669 ppbv
RT: 6.877 min Scan# 451
Delta R.T. -0.006 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

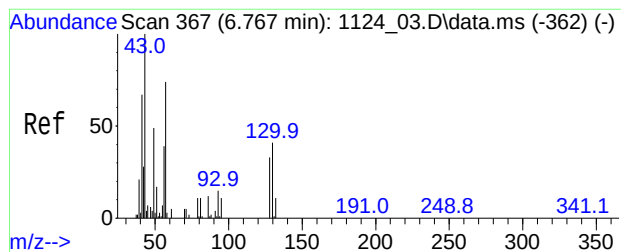
Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.8	12.5	52.5
83	15.1	0.0	35.5



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.778 ppbv
RT: 7.141 min Scan# 494
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

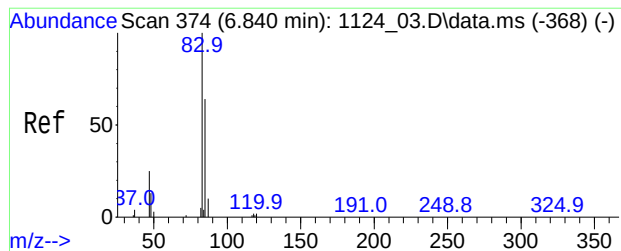
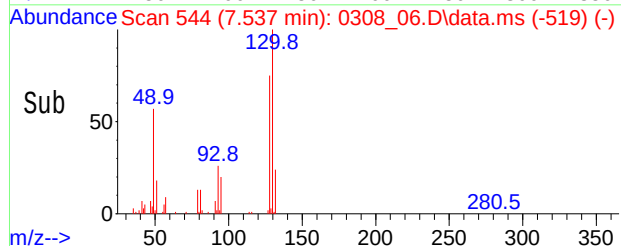
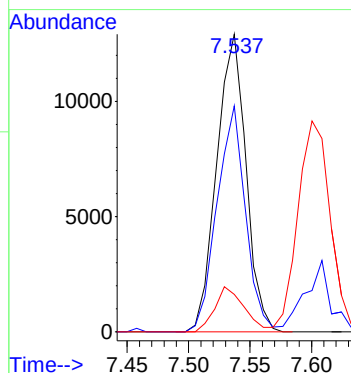
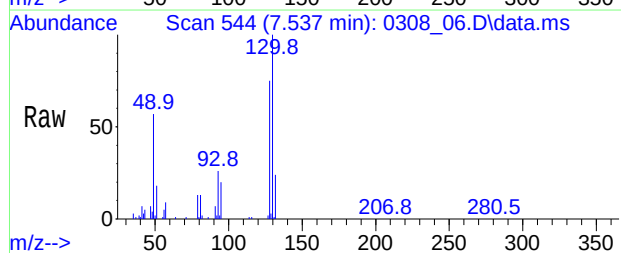
Tgt Ion	Ratio	Lower	Upper
43	100		
72	33.6	27.2	40.8
57	9.9	7.8	11.8





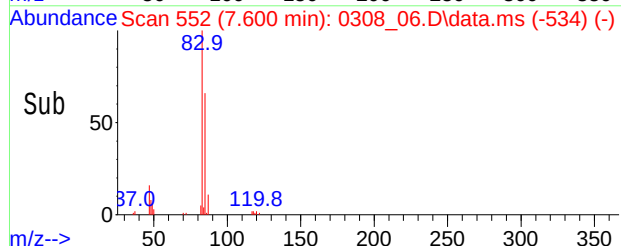
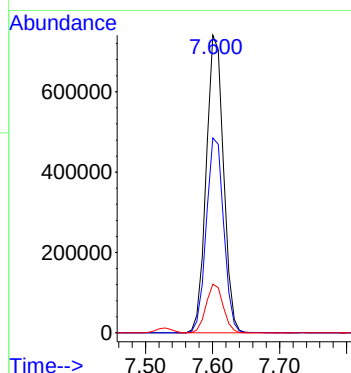
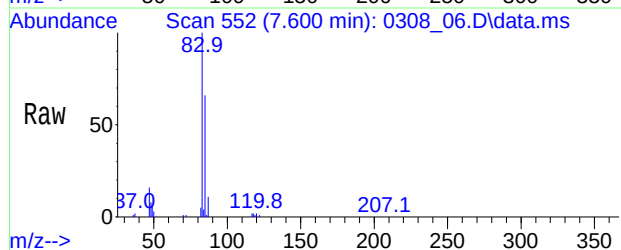
#28
Hexane
Conc: 8\$ 0.591 ppbv
RT: 7.537 min Scan# 544
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

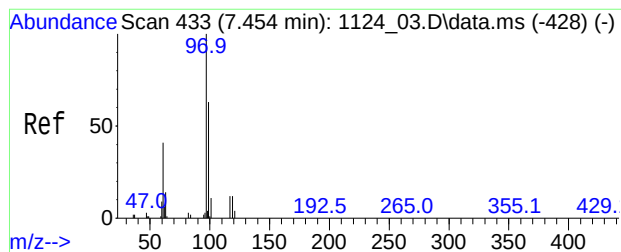
Tgt Ion	Ratio	Lower	Upper
57	100		
41	73.8	48.7	73.1#
86	15.0	11.0	16.4



#29
Chloroform
Conc: 8\$ 21.067 ppbv
RT: 7.600 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

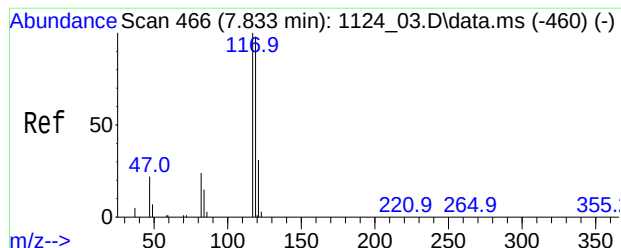
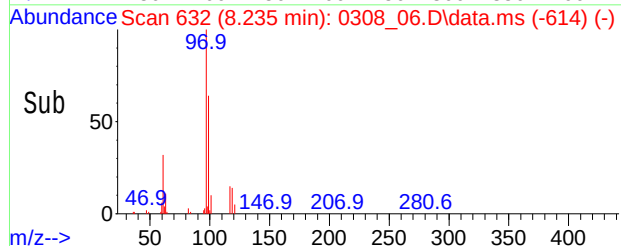
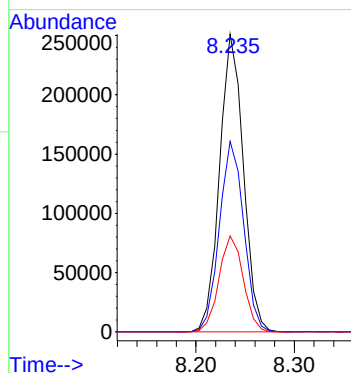
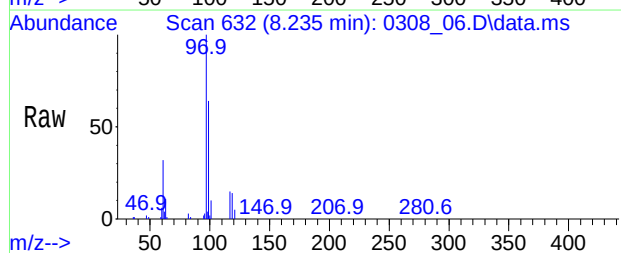
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	46.1	86.1
47	16.3	0.0	35.3





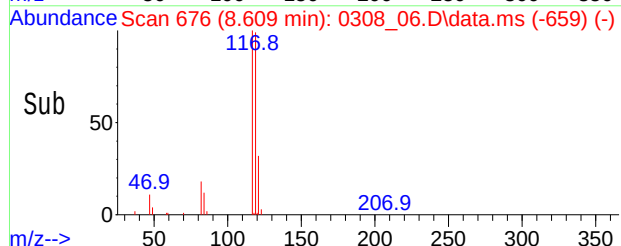
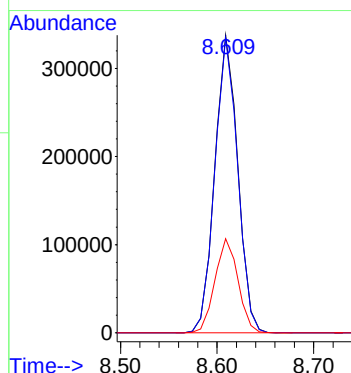
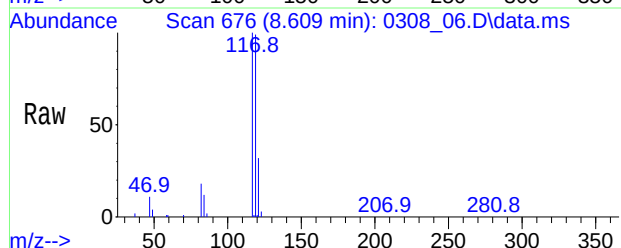
#33
 1,1,1-Trichloroethane
 Conc: 8\$ 6.643 ppbv
 RT: 8.235 min Scan# 632
 Delta R.T. -0.008 min
 Lab File: 0308_06.D
 Acq: 8 Mar 2023 2:01 pm

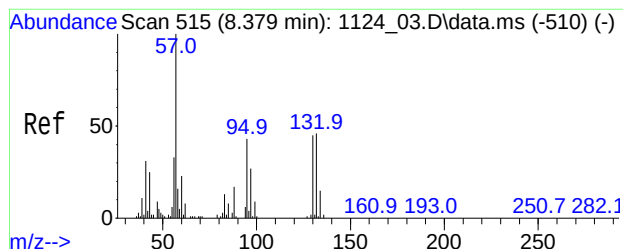
Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.0	78.0
61	32.9	26.7	40.1



#35
 Carbon Tetrachloride
 Conc: 8\$ 7.532 ppbv
 RT: 8.609 min Scan# 676
 Delta R.T. 0.000 min
 Lab File: 0308_06.D
 Acq: 8 Mar 2023 2:01 pm

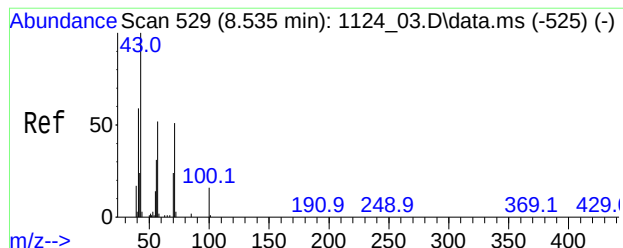
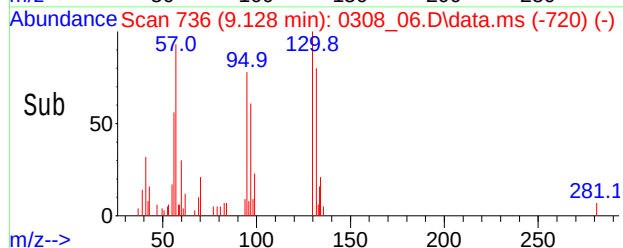
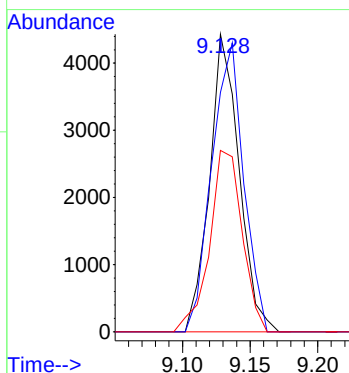
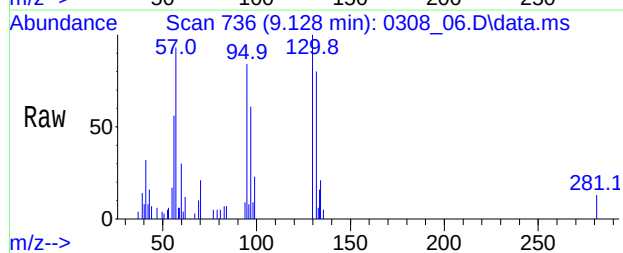
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.7	77.0	117.0
121	31.8	11.5	51.5





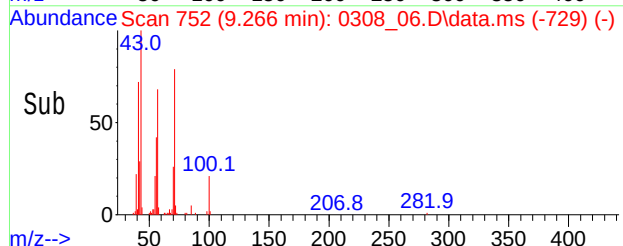
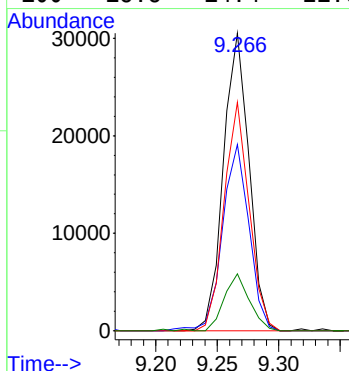
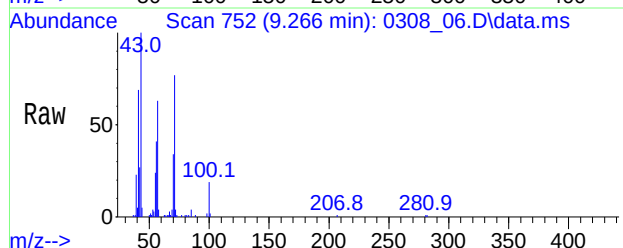
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 9.128 min Scan# 736
Delta R.T. -0.008 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

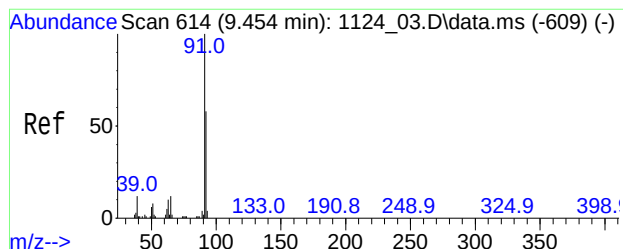
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6728		
132	104.7	77.4	116.2	
97	67.1	45.3	67.9	



#44
Heptane
Conc: 8\$ 1.171 ppbv
RT: 9.266 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

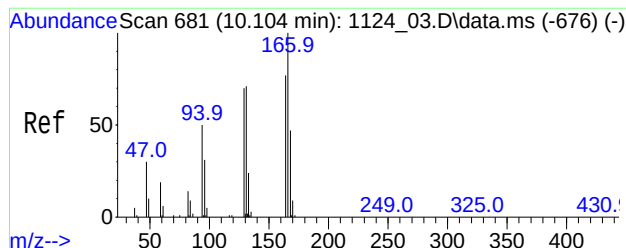
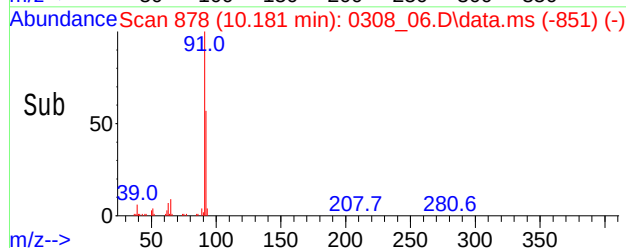
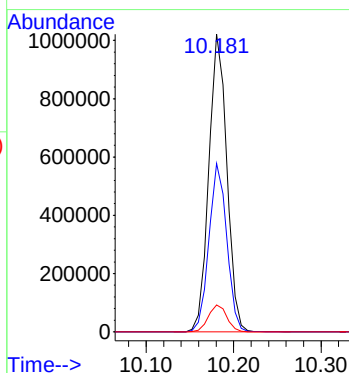
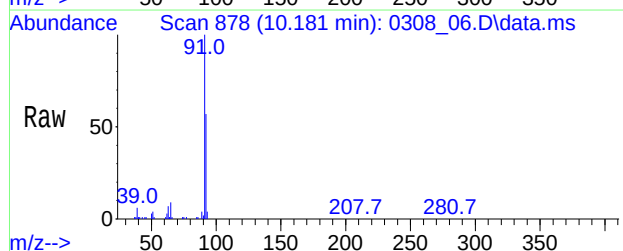
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	44371		
57	64.8	50.6	75.8	
71	75.0	62.9	94.3	
100	18.8	14.4	21.6	





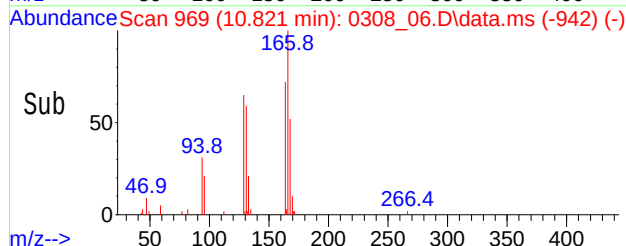
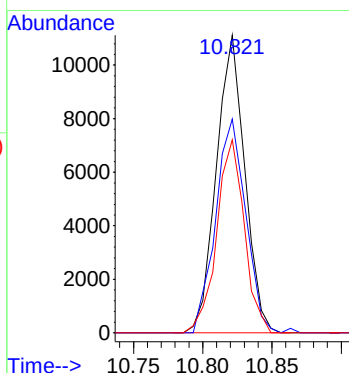
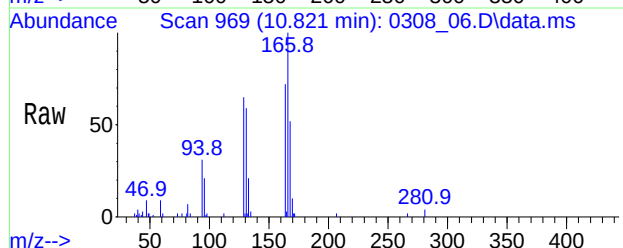
#49
Toluene
Conc: 8\$ 12.062 ppbv
RT: 10.181 min Scan# 878
Delta R.T. -0.007 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

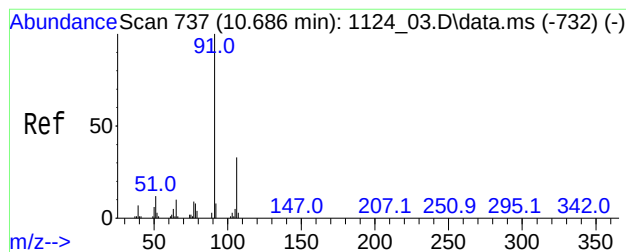
Tgt Ion: 91 Resp: 1458450
Ion Ratio Lower Upper
91 100
92 56.0 44.6 66.8
65 9.3 7.2 10.8



#53
Tetrachloroethene
Conc: 8\$ 0.202 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

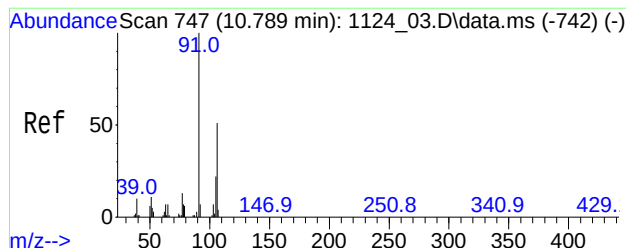
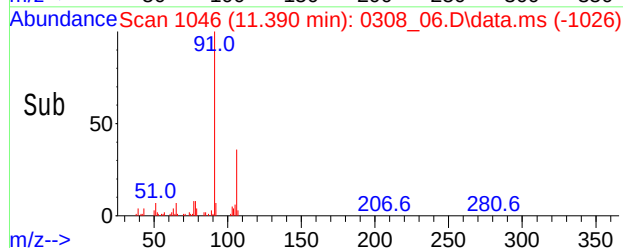
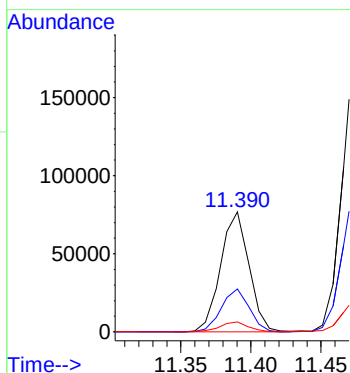
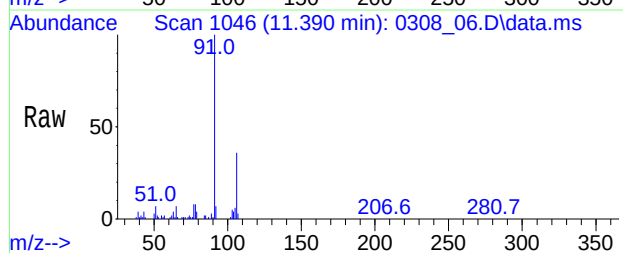
Tgt Ion: 166 Resp: 15919
Ion Ratio Lower Upper
166 100
164 76.4 62.3 93.5
129 62.7 54.7 82.1





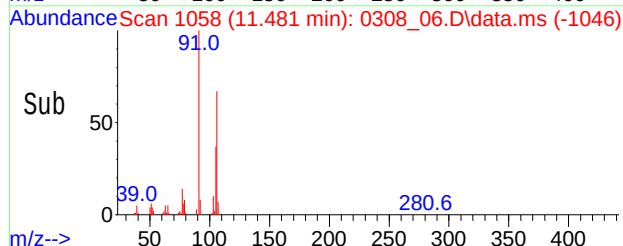
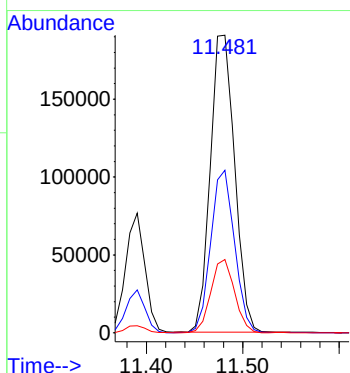
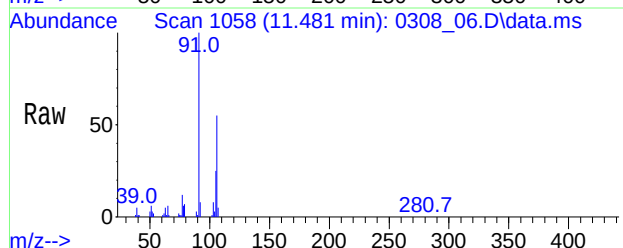
#57
Ethylbenzene
Conc: 8\$ 0.728 ppbv
RT: 11.390 min Scan# 1046
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

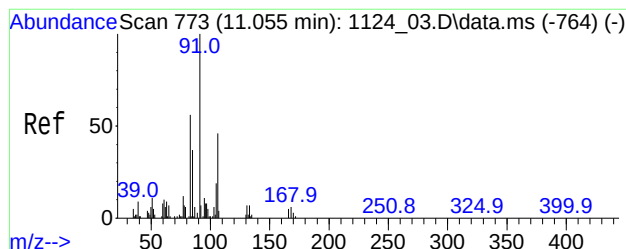
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	108459		
106	35.2	14.9	54.9	
77	8.3	0.0	27.6	



#58
m,p-Xylene
Conc: 8\$ 2.905 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. -0.007 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

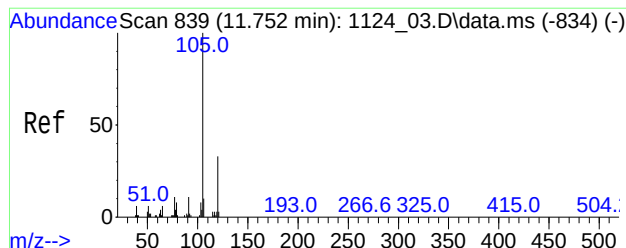
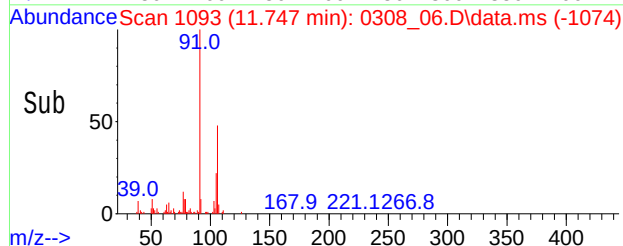
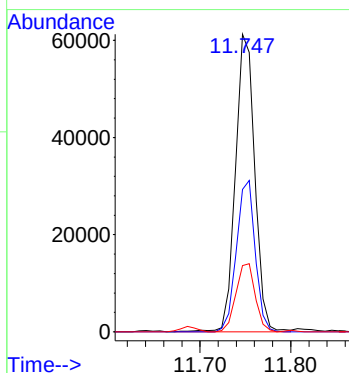
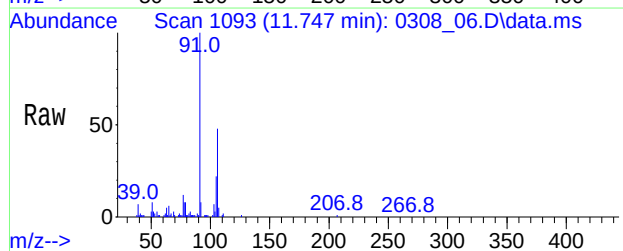
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	336025		
106	53.4	43.1	64.7	
105	24.0	20.2	30.2	





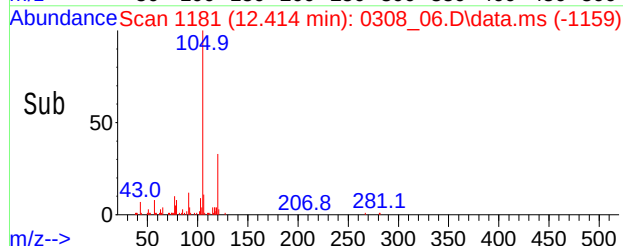
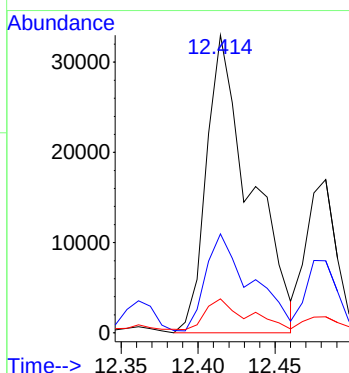
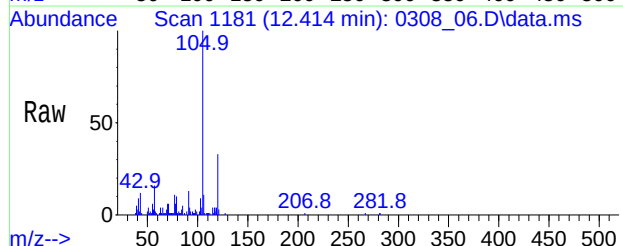
#62
o-Xylene
Conc: 8\$ 0.760 ppbv
RT: 11.747 min Scan# 1093
Delta R.T. -0.007 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

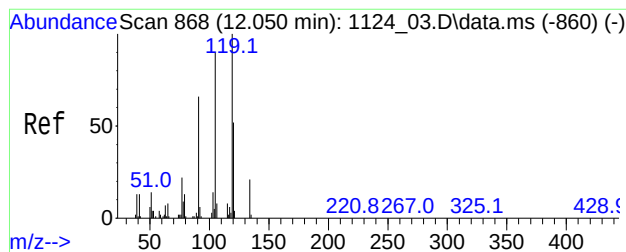
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.4	40.5	60.7
105	22.9	16.9	25.3



#67
4-Ethyltoluene
Conc: 8\$ 0.348 ppbv
RT: 12.414 min Scan# 1181
Delta R.T. -0.030 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

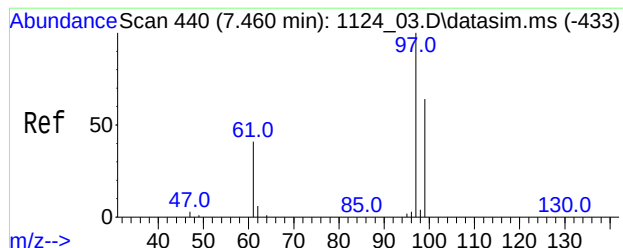
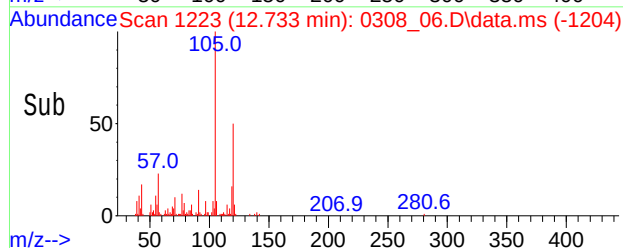
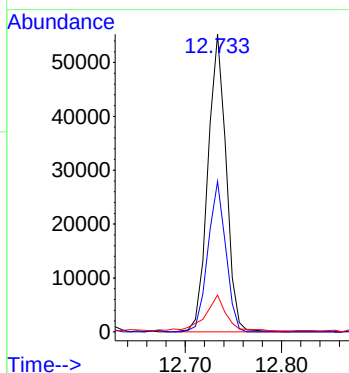
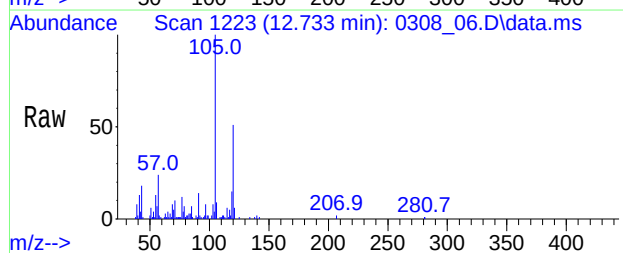
Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.8	25.2	37.8
77	9.6	7.0	10.6





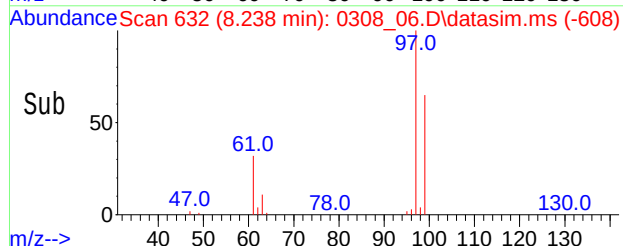
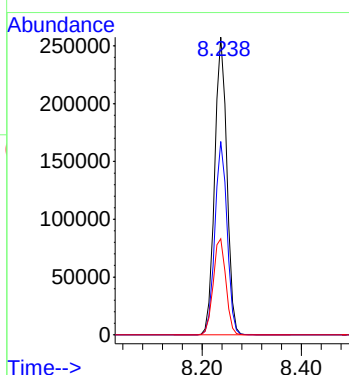
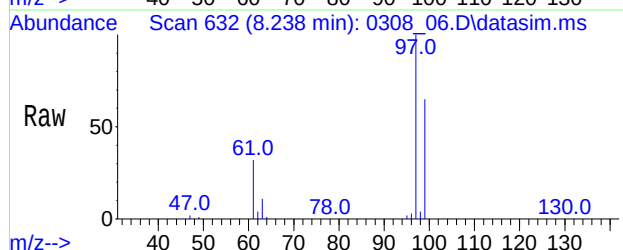
#69
1,2,4-Trimethylbenzene
Conc: 8\$ 0.465 ppbv
RT: 12.733 min Scan# 1223
Delta R.T. -0.007 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

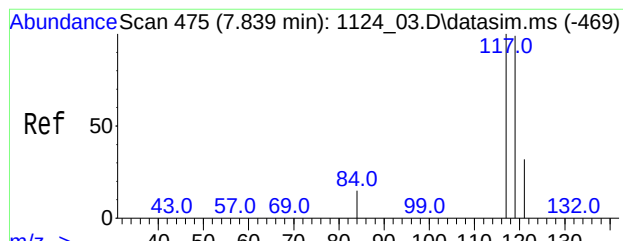
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	72455		
120	49.1	46.1	69.1	
77	14.8	15.4	23.2#	



#87
1,1,1-Trichloroethane(sim)
Conc: 8\$ 6.376 ppbv
RT: 8.238 min Scan# 632
Delta R.T. -0.008 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

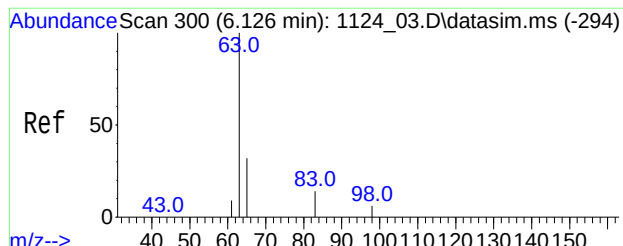
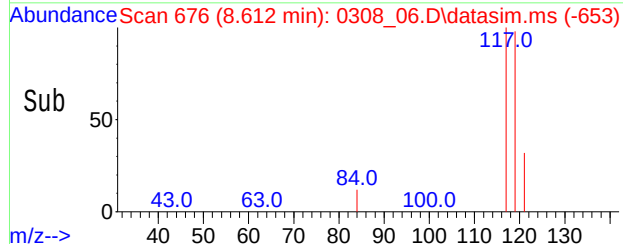
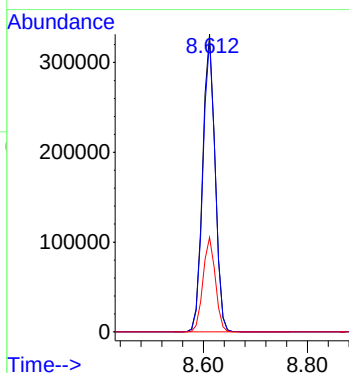
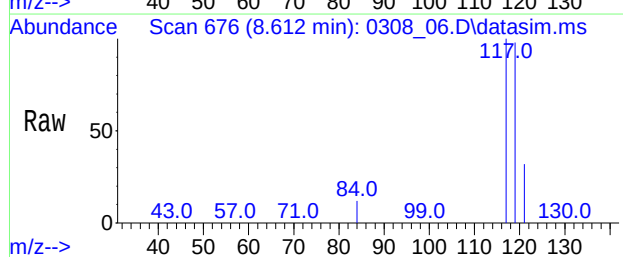
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	449023		
99	65.1	64.8	64.8#	
61	32.8	26.3	39.5	





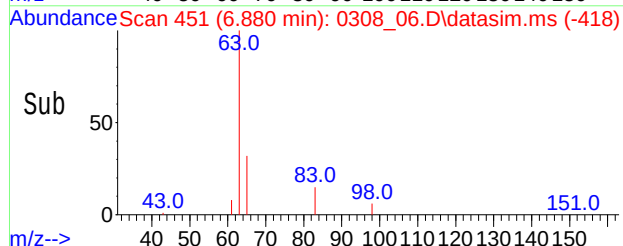
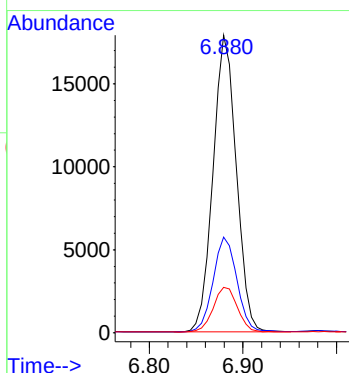
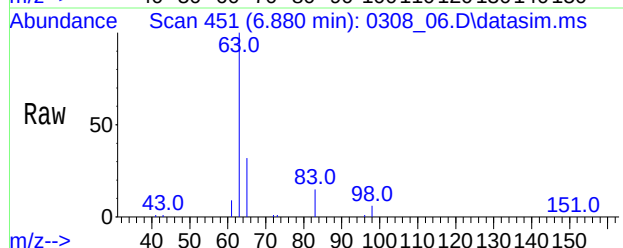
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 7.167 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

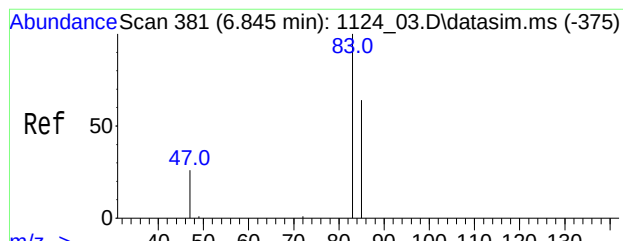
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.5	77.7	116.5
121	31.6	25.1	37.7



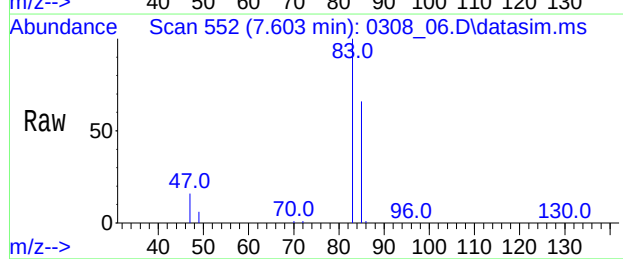
#93
1,1-Dichloroethane(sim)
Conc: 8\$ 0.596 ppbv
RT: 6.880 min Scan# 451
Delta R.T. -0.006 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.7	26.1	39.1
83	15.7	12.1	18.1

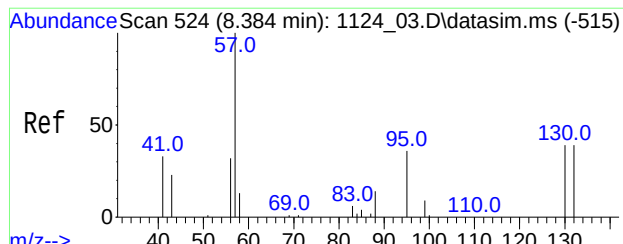
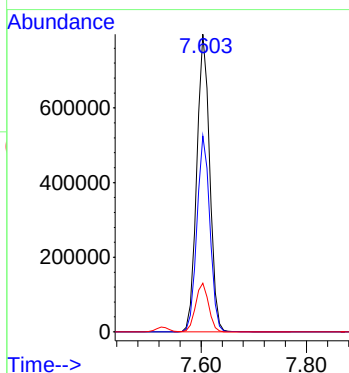
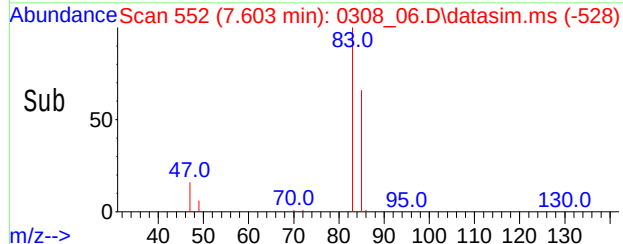




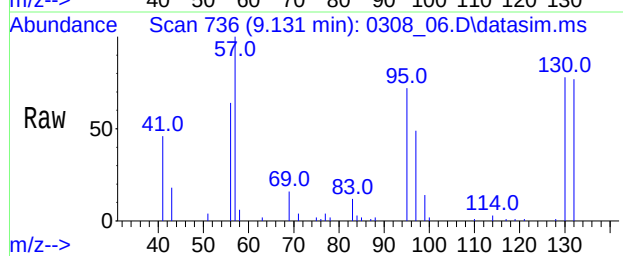
#95
Chloroform(sim)
Conc: 8\$ 18.594 ppbv
RT: 7.603 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm



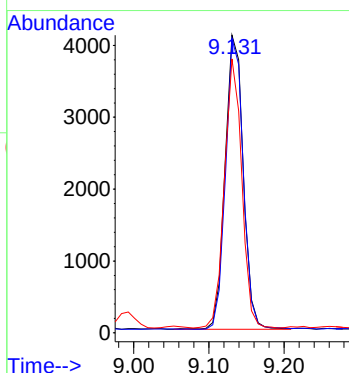
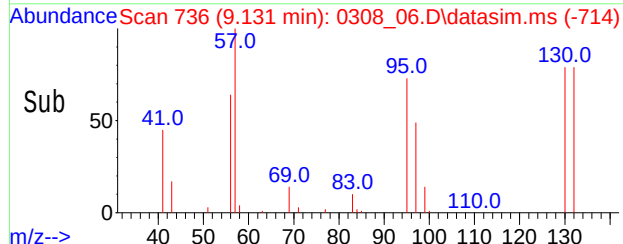
Tgt Ion: 83 Resp: 1359959
Ion Ratio Lower Upper
83 100
85 66.0 52.6 78.8
47 16.5 12.6 18.8

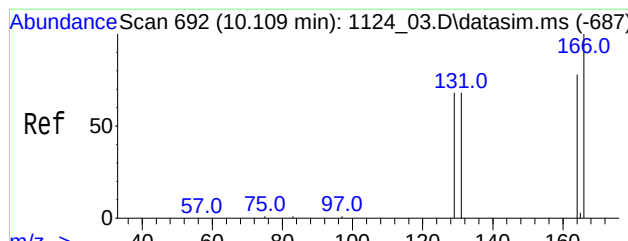


#99
Trichloroethene(sim)
Conc: 8\$ 0.129 ppbv
RT: 9.131 min Scan# 736
Delta R.T. -0.008 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm

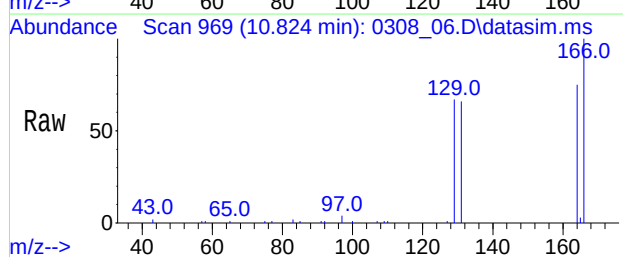


Tgt Ion: 130 Resp: 6875
Ion Ratio Lower Upper
130 100
132 96.3 77.0 115.6
95 87.8 71.4 107.2

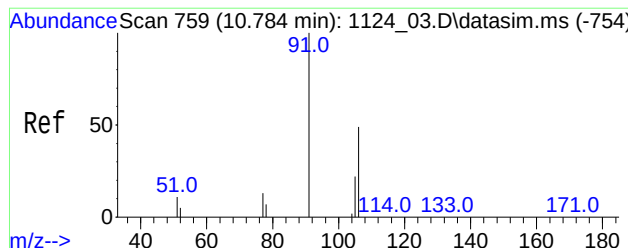
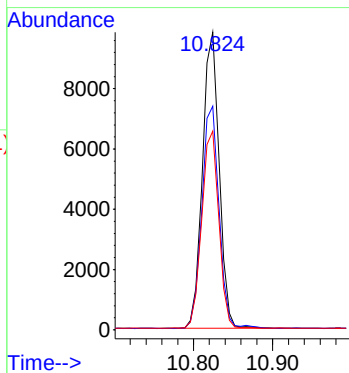
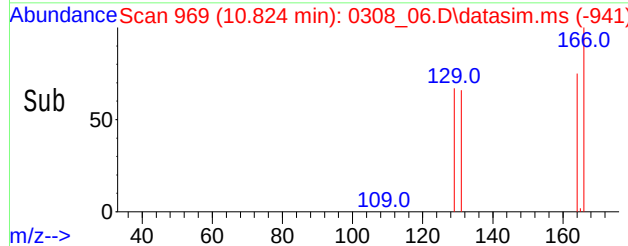




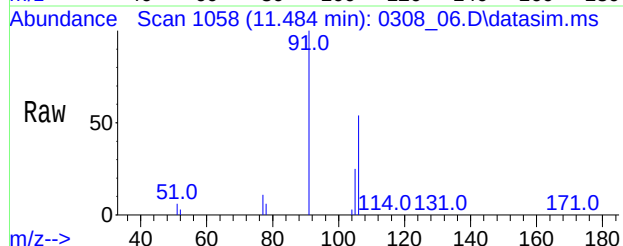
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.182 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm



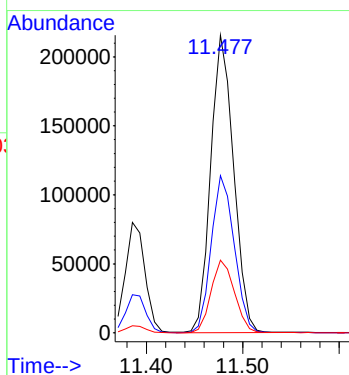
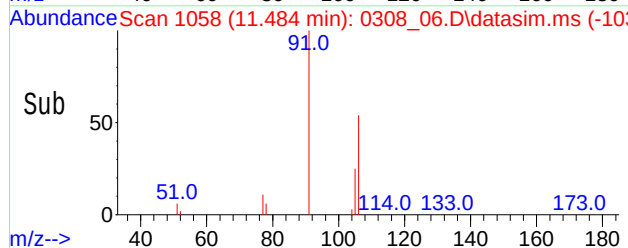
Tgt Ion: 166 Resp: 14412
Ion Ratio Lower Upper
166 100
164 77.5 57.9 97.9
129 67.9 50.0 90.0



#108
m,p-Xylene(sim)
Conc: 8\$ 2.772 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. -0.007 min
Lab File: 0308_06.D
Acq: 8 Mar 2023 2:01 pm



Tgt Ion: 91 Resp: 336771
Ion Ratio Lower Upper
91 100
106 53.4 48.5 59.3
105 24.0 20.2 30.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CN53500 BLANK

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN53500 BL

Canister: BL Lab File ID: 0308_04.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/06/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

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

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN53500 BL

Canister: BL Lab File ID: 0308_04.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/06/23

Purge Volume 200 (cc) Date Analyzed: 03/08/23

Matrix: AIR Dilution Factor: 1

CN53500 BLANK

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_04.D
 Acq On : 8 Mar 2023 12:41 pm
 Operator :
 Client ID : CN53500 BLANK
 Lab ID : CN53500 BLANK
 ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 09 09:19:34 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.529	130	317726	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1175533	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	477661	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	304143	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1174689	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	477661	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	725017	10.261	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.60%

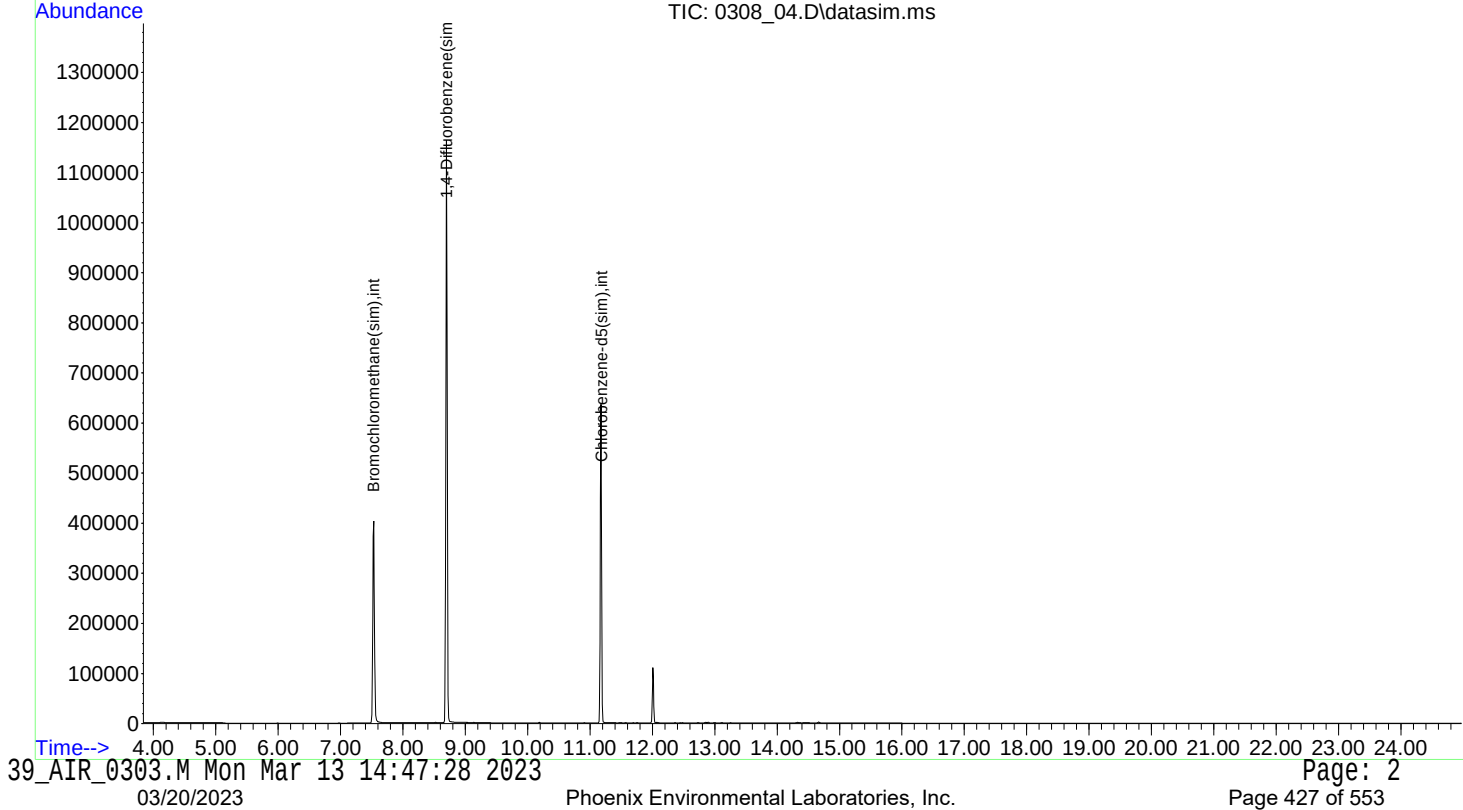
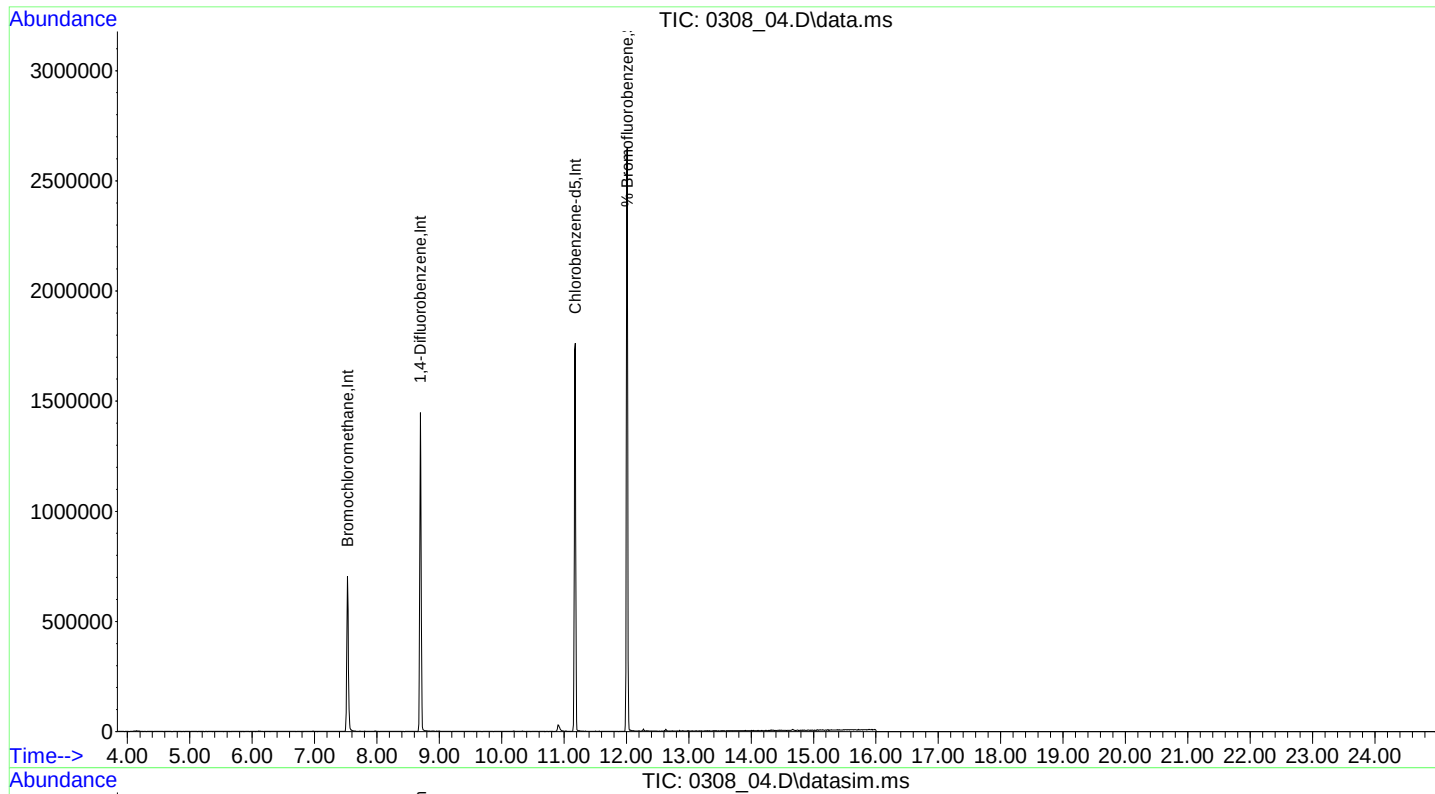
Target Compounds	Qvalue

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

(QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0308_04.D
Acq On : 8 Mar 2023 12:41 pm
Operator :
Client ID : CN53500 BLANK
Lab ID : CN53500 BLANK
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Mar 09 09:19:34 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	53500 dup
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53500 DUP</u>	
Canister:	<u>16008</u>	Lab File ID:	<u>0308_07.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/06/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/08/23</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	0.202	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	2.77	S	0.531	0.531	r
67-64-1	Acetone	35.0	S	0.421	0.421	r
67-63-0	Isopropylalcohol	0.622	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	3.86		0.321	0.321	r
75-34-3	1,1-Dichloroethane	0.646		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	0.278	U	0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	0.794		0.339	0.339	r
110-54-3	Hexane	0.609	S	0.284	0.284	r
67-66-3	Chloroform	21.6		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
71-55-6	1,1,1-Trichloroethane	6.81		0.183	0.183	r
71-43-2	Benzene	0.313	U	0.313	0.313	r
56-23-5	Carbon Tetrachloride	7.74		0.032	0.032	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
142-82-5	Heptane	1.18		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	12.6		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	0.757		0.230	0.230	r
179601-23-1	m,p-Xylene	2.98		0.230	0.230	r
100-42-5	Styrene	0.235	U	0.235	0.235	r
95-47-6	o-Xylene	0.787		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.355		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.204	U	0.204	0.204	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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53500 DUP</u>
Canister:	<u>16008</u>	Lab File ID:	<u>0308_07.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/06/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	0.491		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
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	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
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)	0.129		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)	0.183		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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0308_07.D
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 Operator :
 Client ID : 53500 dup
 Lab ID : CN53500 DUP
 ALS Vial : 32 Sample Multiplier: 1

Quant Time: Mar 09 09:27:01 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Wed Mar 08 09:59:58 2023
 Response via : Initial Calibration

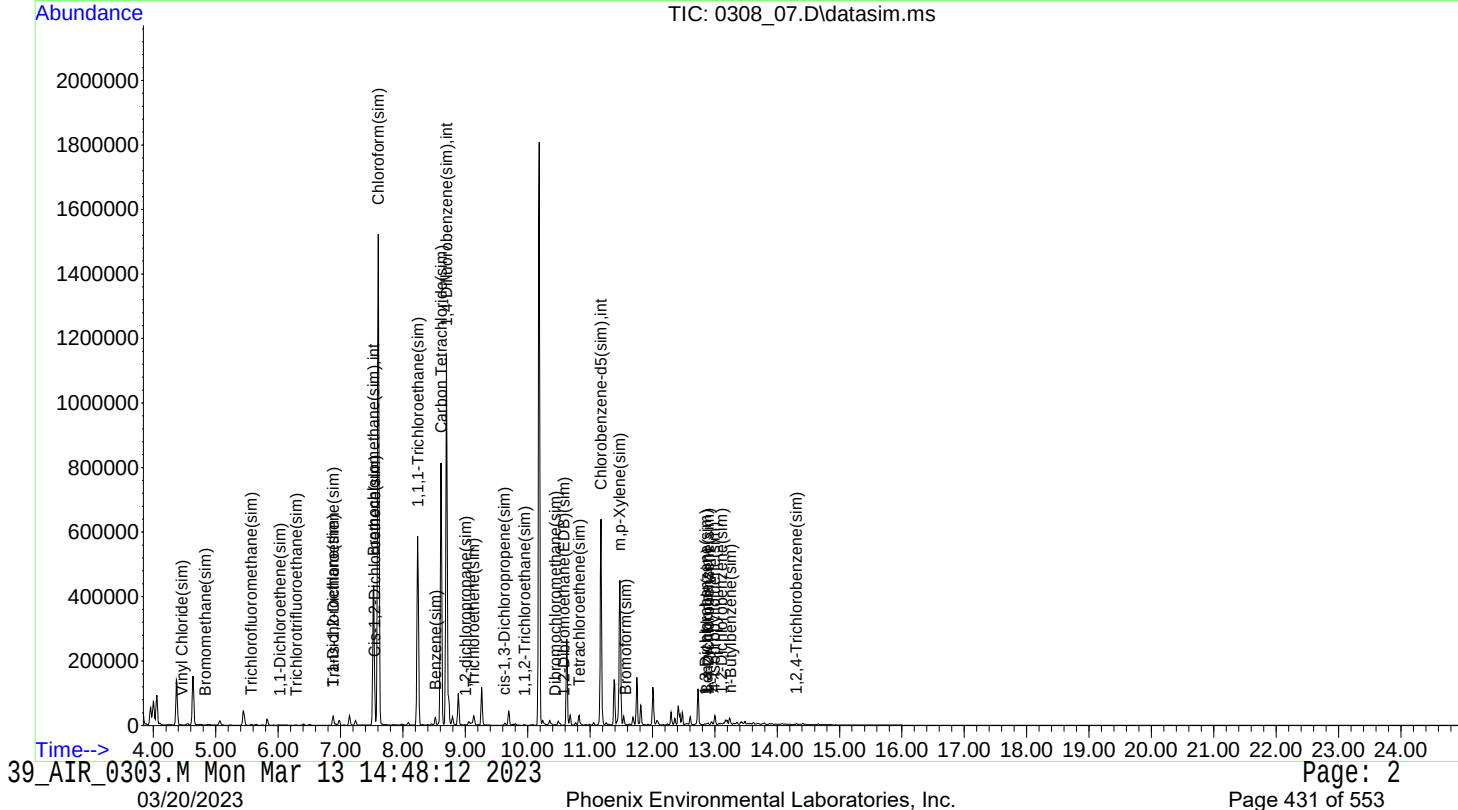
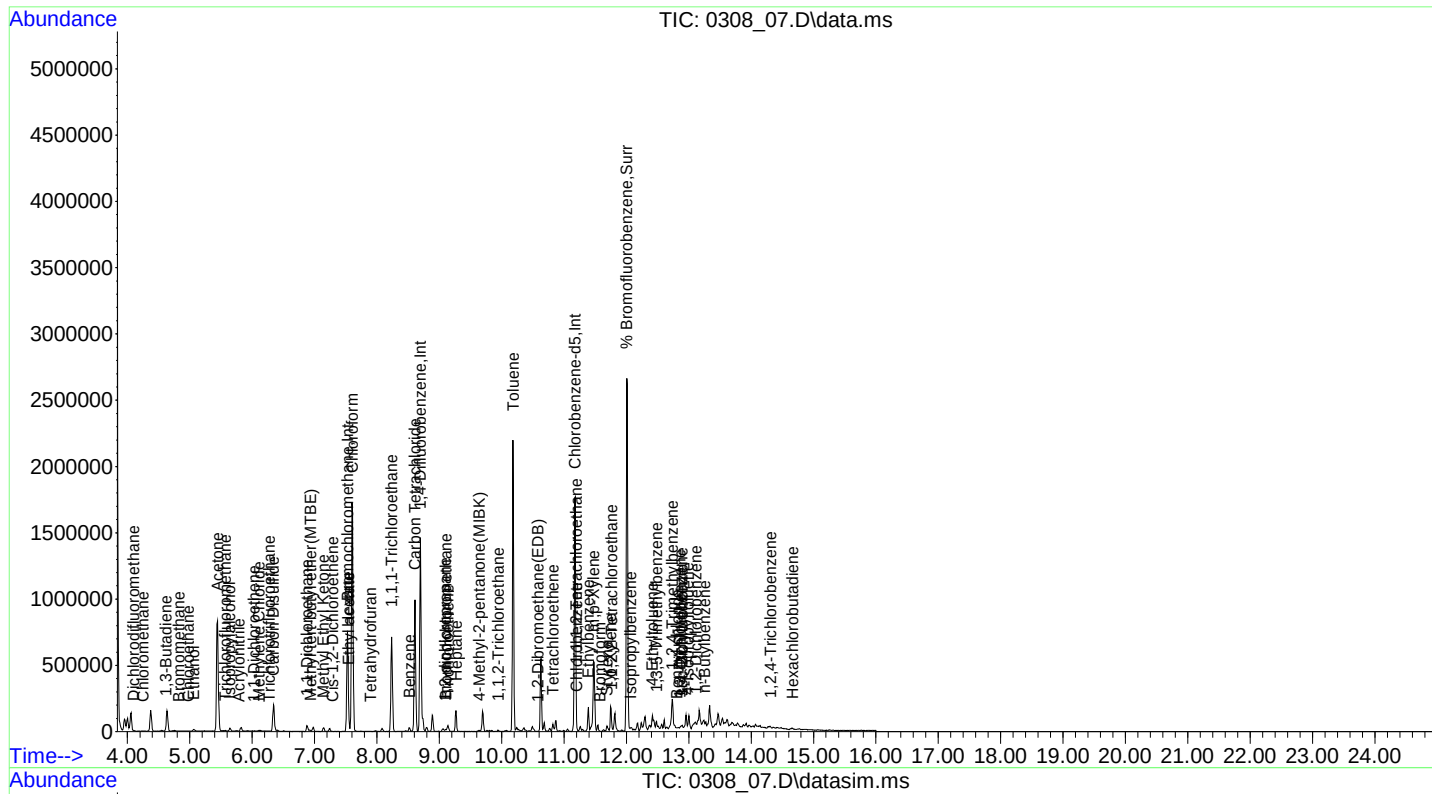
Compound	R.T	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	310516	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1123181	10.000	ng	0.00
54) Chlorobenzene-d5	11.170	82	476934	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	296976	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1123181	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.170	82	476934	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.004	95	730640	10.356	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.60%
Target Compounds						
					Qvalue	
11) Ethanol	5.063	45	15199	2.770	ppbv	94
12) Acetone	5.443	43	986014	35.027	ppbv	92
14) Isopropylalcohol	5.639	45	20516	0.622	ppbv#	88
20) Carbon Disulfide	6.341	76	291232	3.858	ppbv	100
23) 1,1-Dichloroethane	6.877	63	28585	0.646	ppbv	96
26) Methyl Ethyl Ketone	7.140	43	30476	0.794	ppbv	98
28) Hexane	7.537	57	21541	0.609	ppbv	87
29) Chloroform	7.600	83	1322788	21.625	ppbv	99
33) 1,1,1-Trichloroethane	8.235	97	422106	6.805	ppbv	100
35) Carbon Tetrachloride	8.609	117	556554	7.742	ppbv	98
40) Trichloroethene	9.137	130	6630	0.133	ppbv	97
44) Heptane	9.266	43	43054	1.178	ppbv	99
49) Toluene	10.181	91	1465366	12.570	ppbv	100
53) Tetrachloroethene	10.821	166	15512	0.204	ppbv	94
57) Ethylbenzene	11.390	91	108867	0.757	ppbv	97
58) m,p-Xylene	11.474	91	333347	2.984	ppbv	99
62) o-Xylene	11.747	91	90825	0.787	ppbv	98
67) 4-Ethyltoluene	12.414	105	64735	0.354	ppbv#	92
69) 1,2,4-Trimethylbenzene	12.733	105	73868	0.491	ppbv#	87
87) 1,1,1-Trichloroethane(sim)	8.238	97	455434	6.640	ppbv#	99
89) Carbon Tetrachloride(sim)	8.612	117	552107	7.400	ppbv	99
93) 1,1-Dichloroethane(sim)	6.879	63	30898	0.612	ppbv	99
95) Chloroform(sim)	7.603	83	1365284	19.165	ppbv	99
99) Trichloroethene(sim)	9.131	130	6645	0.129	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	13973	0.183	ppbv	99
108) m,p-Xylene(sim)	11.474	91	336028	2.864	ppbv	99

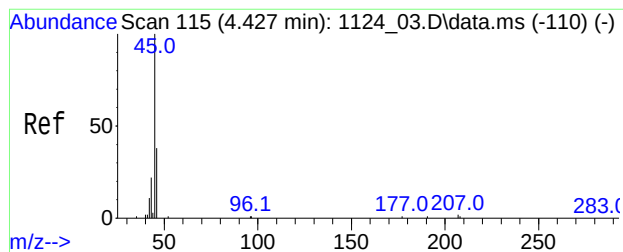
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(QT Reviewed)

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Data File : 0308_07.D  
Acq On : 8 Mar 2023 2:38 pm  
Operator :  
Client ID : 53500 dup  
Lab ID : CN53500 DUP  
ALS Vial : 32 Sample Multiplier: 1
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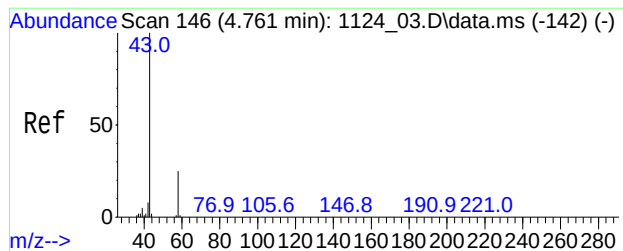
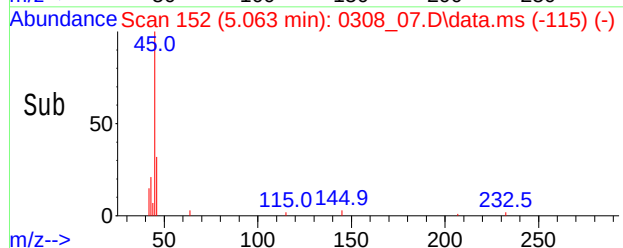
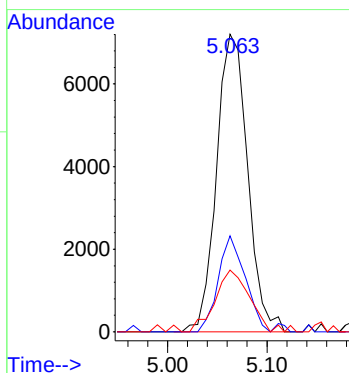
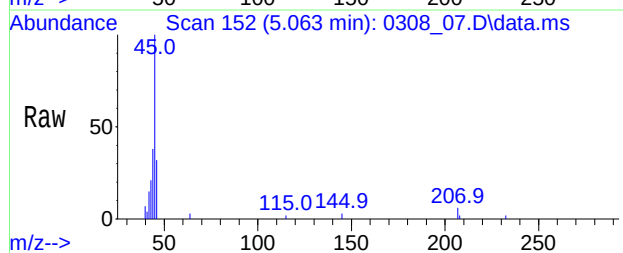
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Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Mar 08 09:59:58 2023
Response via : Initial Calibration





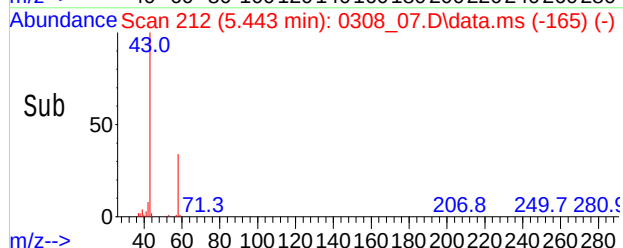
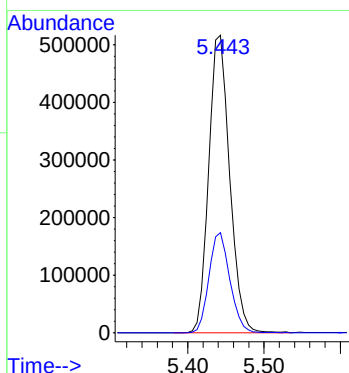
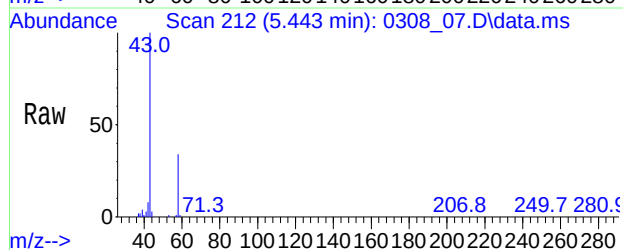
#11
Ethanol
Conc: 8\$ 2.770 ppbv
RT: 5.063 min Scan# 152
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

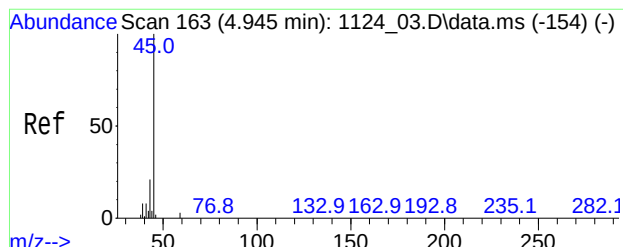
Tgt Ion	Ratio	Lower	Upper
45	100		
46	28.9	27.0	40.4
43	22.7	17.0	25.4



#12
Acetone
Conc: 8\$ 35.027 ppbv
RT: 5.443 min Scan# 212
Delta R.T. -0.012 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

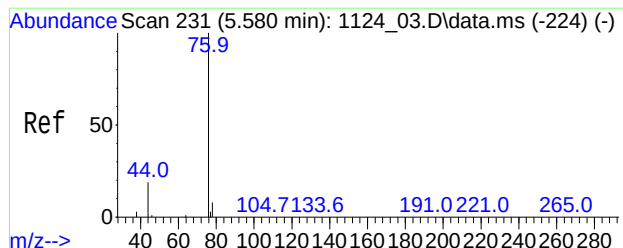
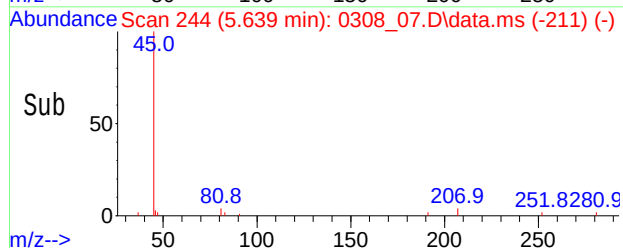
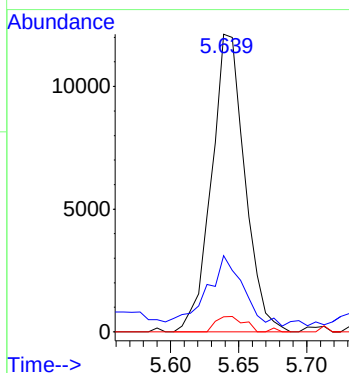
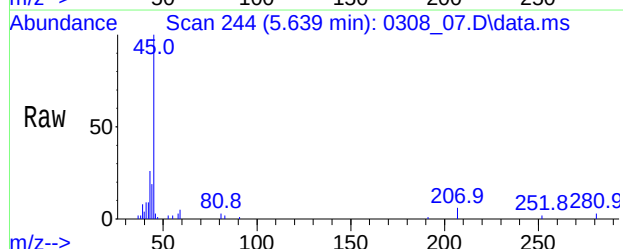
Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.6	30.8	46.2





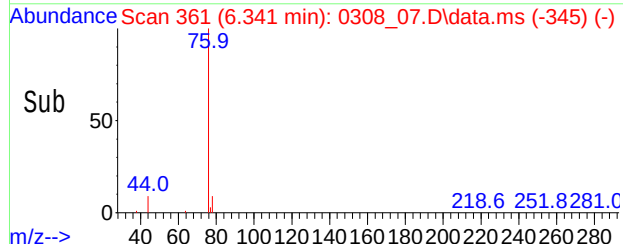
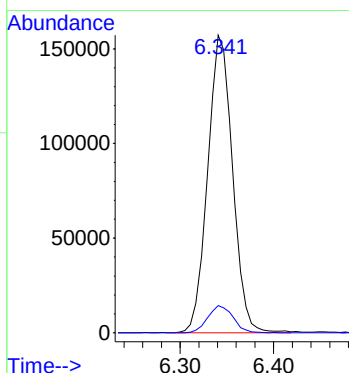
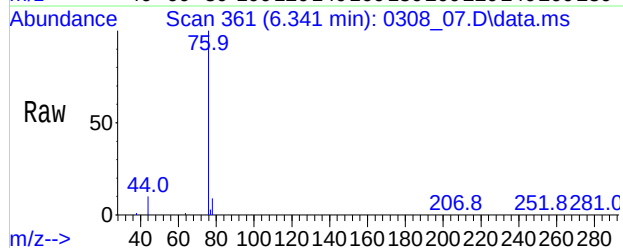
#14
Isopropylalcohol
Conc: 8\$ 0.622 ppbv
RT: 5.639 min Scan# 244
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

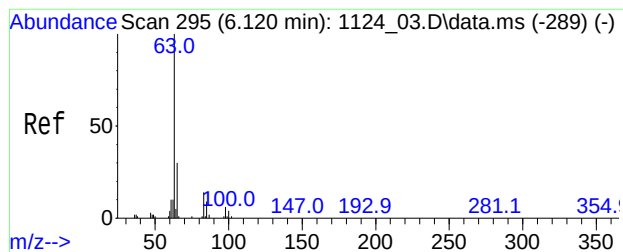
Tgt Ion: 45 Resp: 20516
Ion Ratio Lower Upper
45 100
43 26.0 15.4 23.0#
59 4.4 3.9 5.9



#20
Carbon Disulfide
Conc: 8\$ 3.858 ppbv
RT: 6.341 min Scan# 361
Delta R.T. -0.006 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

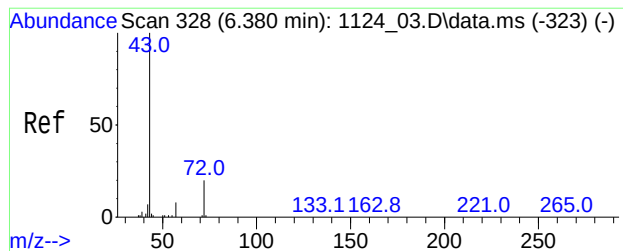
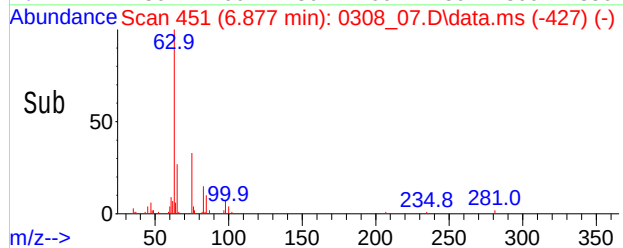
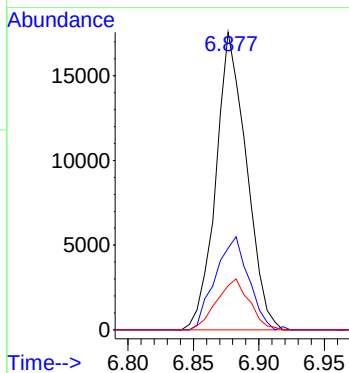
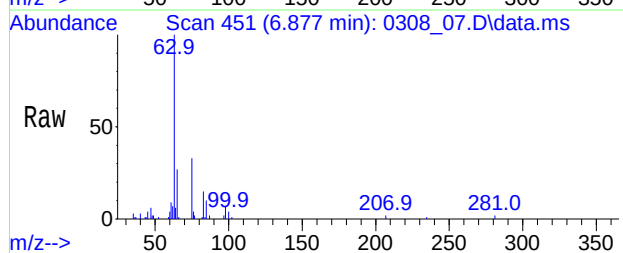
Tgt Ion: 76 Resp: 291232
Ion Ratio Lower Upper
76 100
78 9.3 7.4 11.0





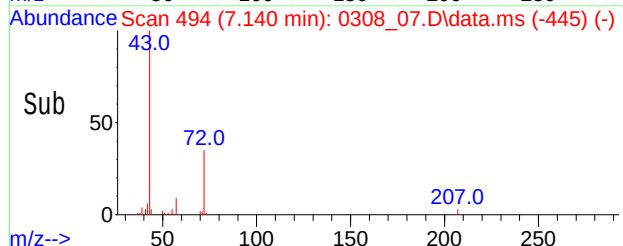
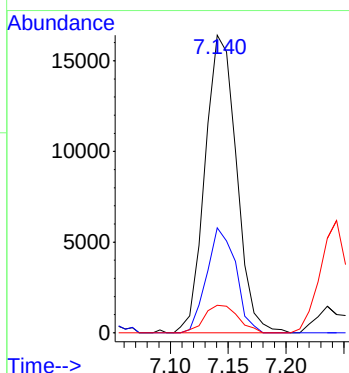
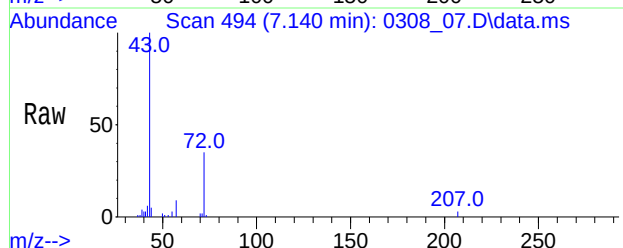
#23
1,1-Dichloroethane
Conc: 8\$ 0.646 ppbv
RT: 6.877 min Scan# 451
Delta R.T. -0.006 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

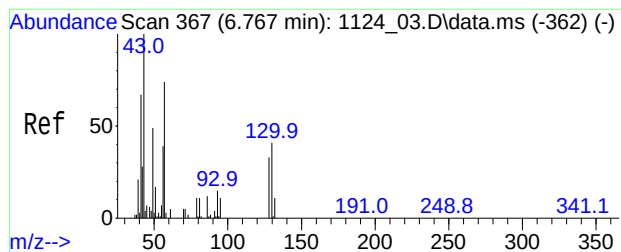
Tgt Ion:	63	Resp:	28585
Ion Ratio	Lower	Upper	
63	100		
65	34.2	12.5	52.5
83	18.2	0.0	35.5



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.794 ppbv
RT: 7.140 min Scan# 494
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

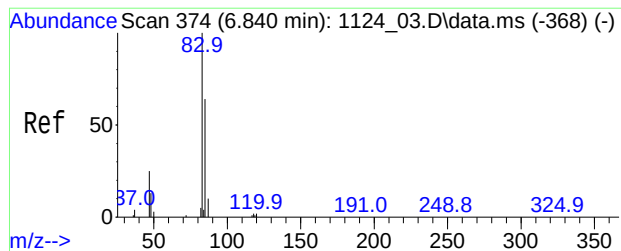
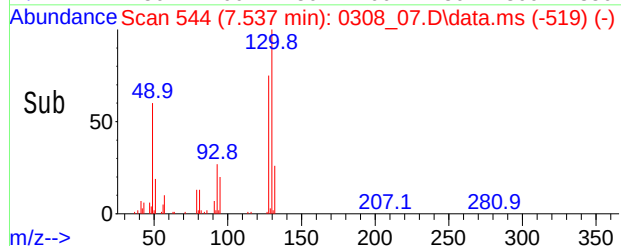
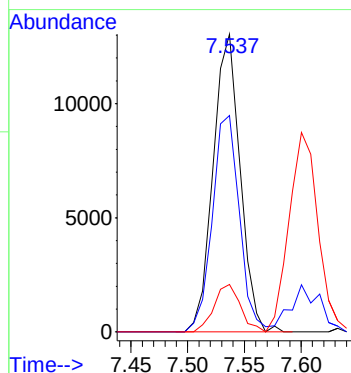
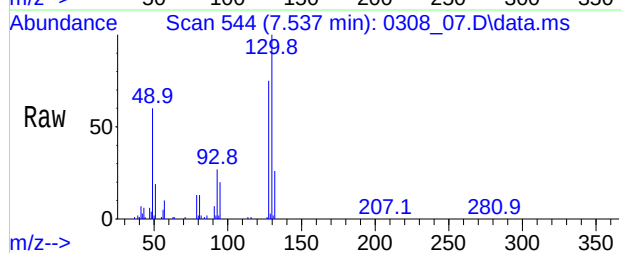
Tgt Ion:	43	Resp:	30476
Ion Ratio	Lower	Upper	
43	100		
72	32.4	27.2	40.8
57	10.0	7.8	11.8





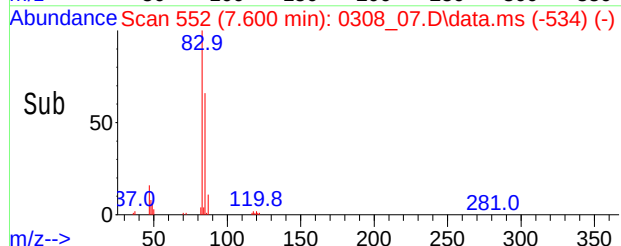
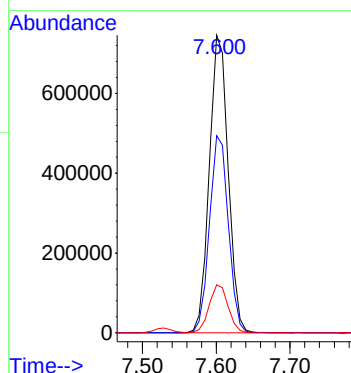
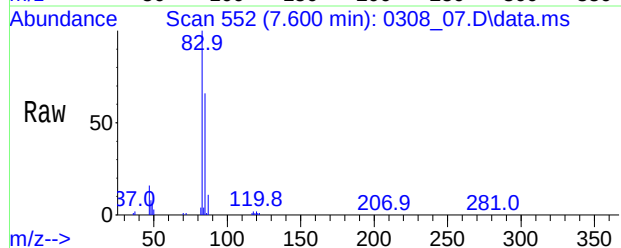
#28
Hexane
Conc: 8\$ 0.609 ppbv
RT: 7.537 min Scan# 544
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

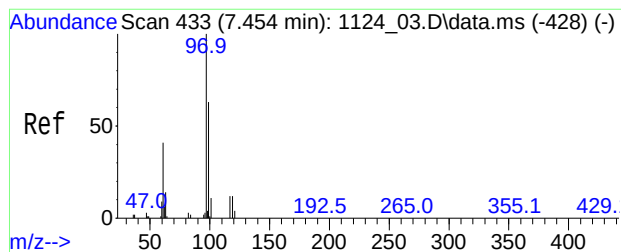
Tgt Ion	Ratio	Lower	Upper
57	100		
41	72.7	48.7	73.1
86	15.6	11.0	16.4



#29
Chloroform
Conc: 8\$ 21.625 ppbv
RT: 7.600 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

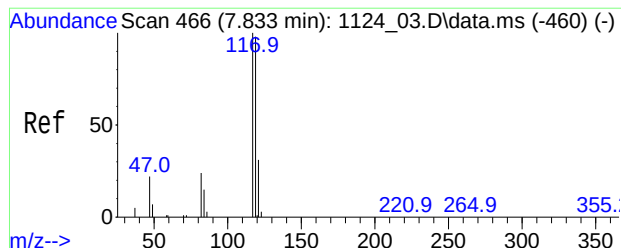
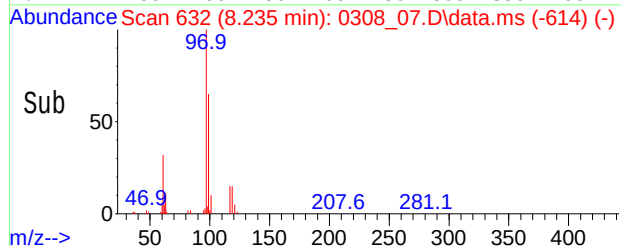
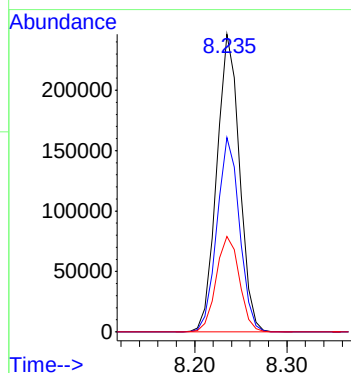
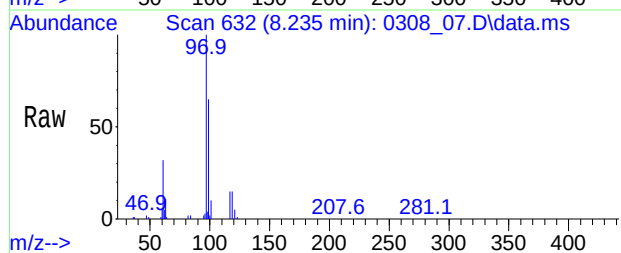
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.2	46.1	86.1
47	16.3	0.0	35.3





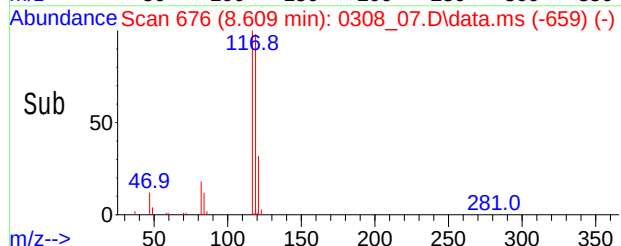
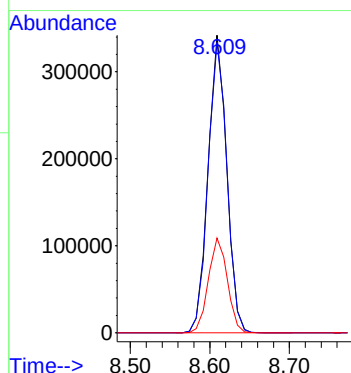
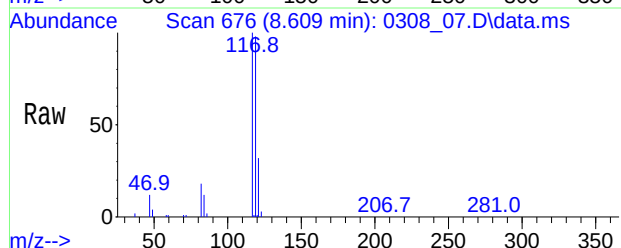
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 1,1,1-Trichloroethane
 Conc: 8\$ 6.805 ppbv
 RT: 8.235 min Scan# 632
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 Lab File: 0308_07.D
 Acq: 8 Mar 2023 2:38 pm

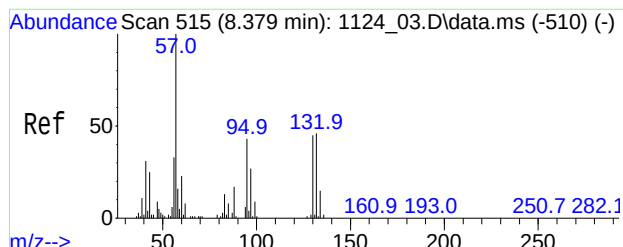
Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.9	52.0	78.0
61	32.8	26.7	40.1



#35
 Carbon Tetrachloride
 Conc: 8\$ 7.742 ppbv
 RT: 8.609 min Scan# 676
 Delta R.T. 0.000 min
 Lab File: 0308_07.D
 Acq: 8 Mar 2023 2:38 pm

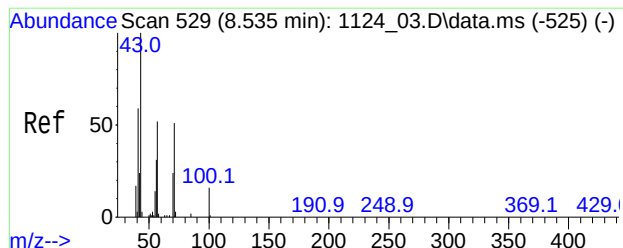
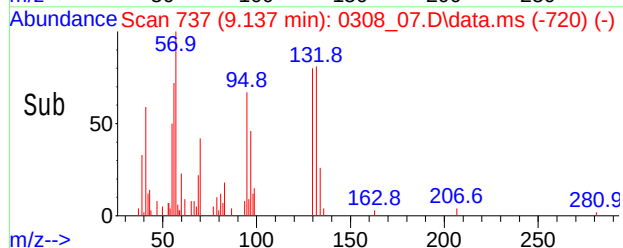
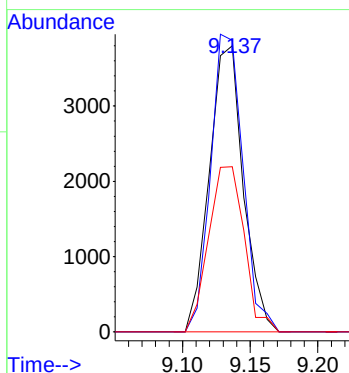
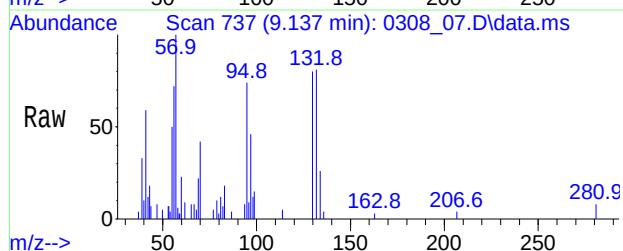
Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.9	77.0	117.0
121	32.4	11.5	51.5





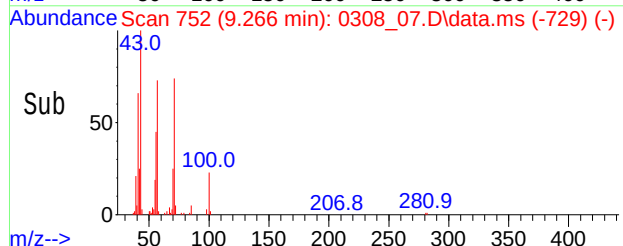
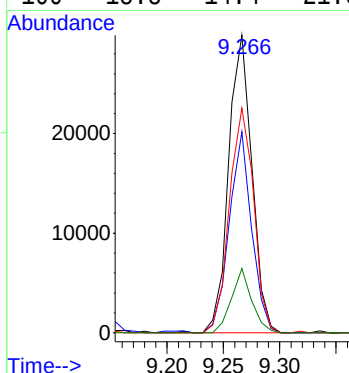
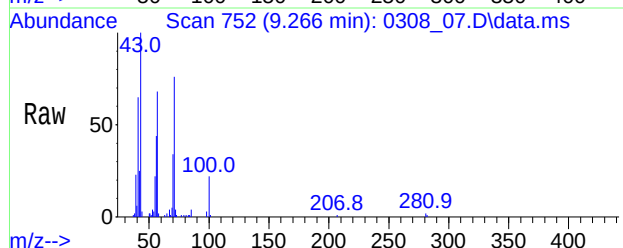
#40
Trichloroethene
Conc: 8\$ Below Cal
RT: 9.137 min Scan# 737
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

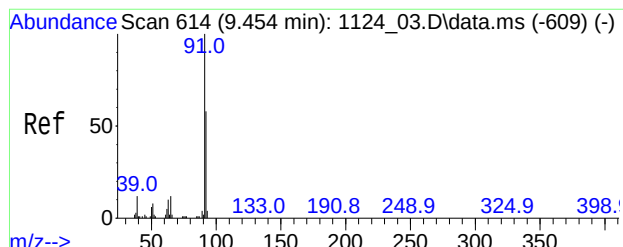
Tgt Ion	Ratio	Resp	Lower	Upper
130	100	6630		
132	98.9	77.4	116.2	
97	60.7	45.3	67.9	



#44
Heptane
Conc: 8\$ 1.178 ppbv
RT: 9.266 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

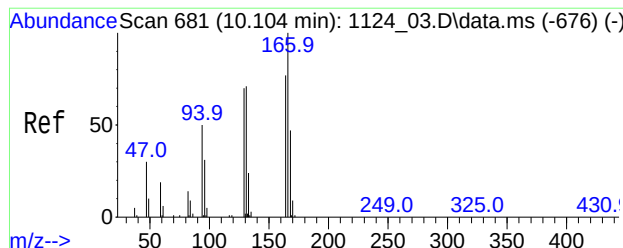
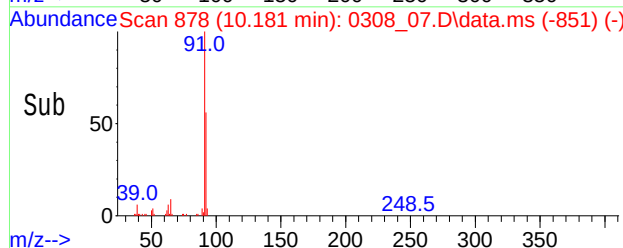
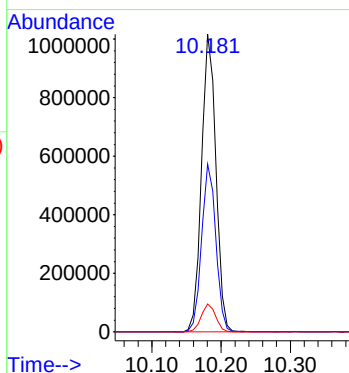
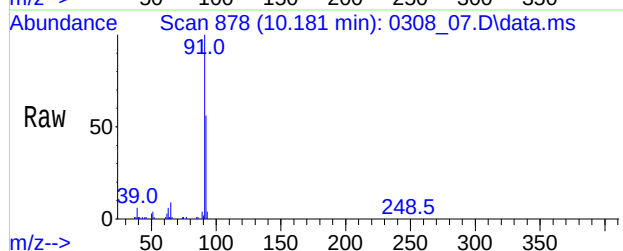
Tgt Ion	Ratio	Resp	Lower	Upper
43	100	43054		
57	64.8	50.6	75.8	
71	78.4	62.9	94.3	
100	18.8	14.4	21.6	





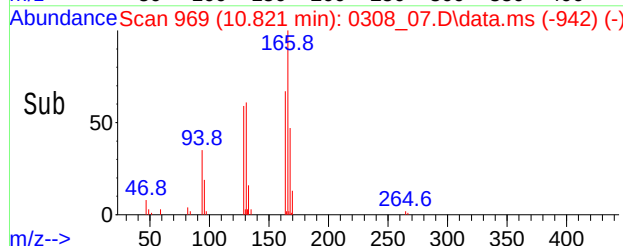
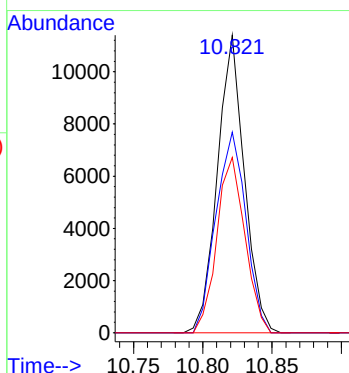
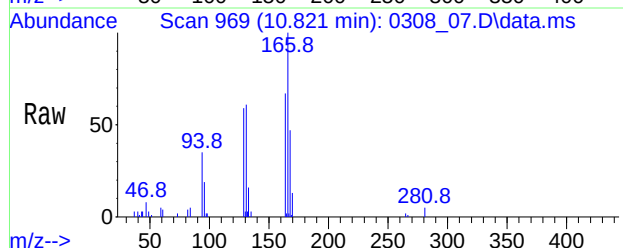
#49
Toluene
Conc: 8\$ 12.570 ppbv
RT: 10.181 min Scan# 878
Delta R.T. -0.007 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

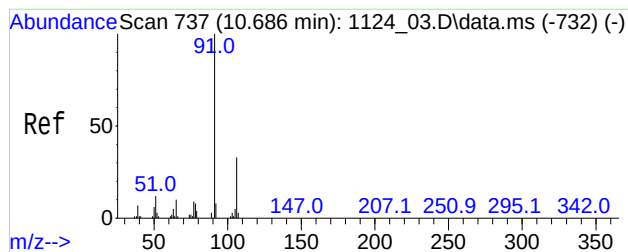
Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	44.6	66.8
65	9.4	7.2	10.8



#53
Tetrachloroethene
Conc: 8\$ 0.204 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.007 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

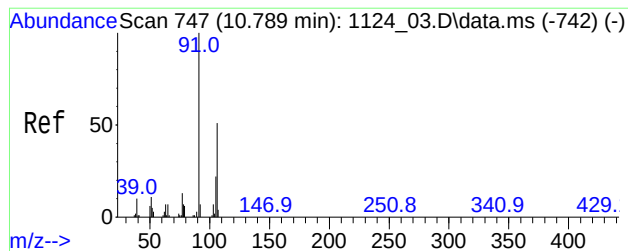
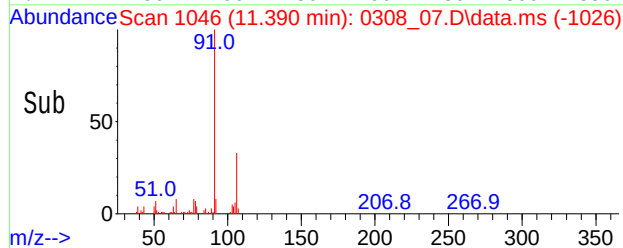
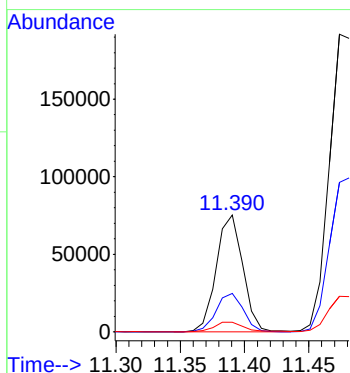
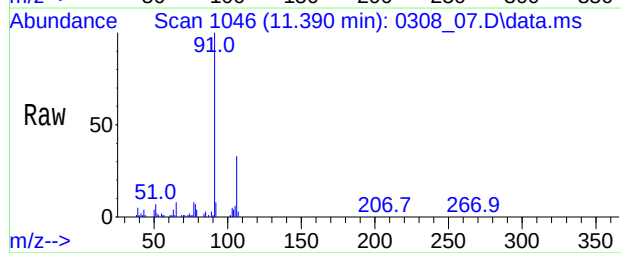
Tgt Ion	Ratio	Lower	Upper
166	100		
164	74.8	62.3	93.5
129	61.3	54.7	82.1





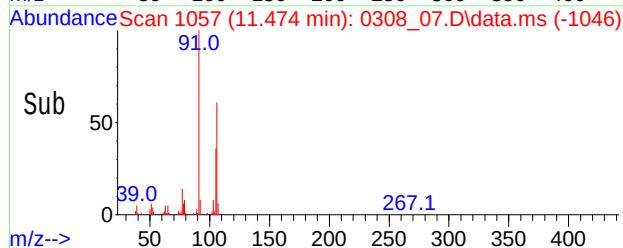
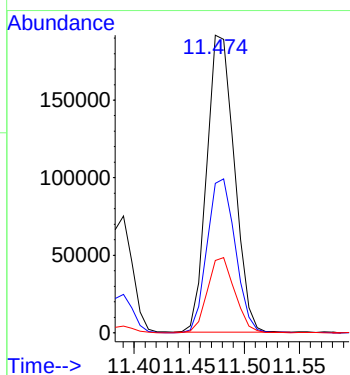
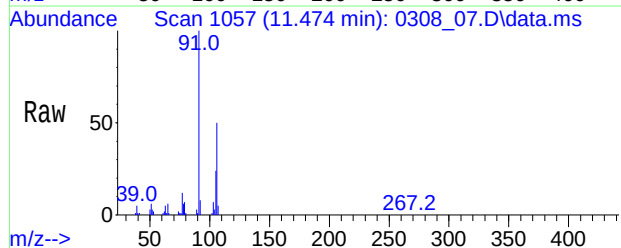
#57
Ethylbenzene
Conc: 8\$ 0.757 ppbv
RT: 11.390 min Scan# 1046
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

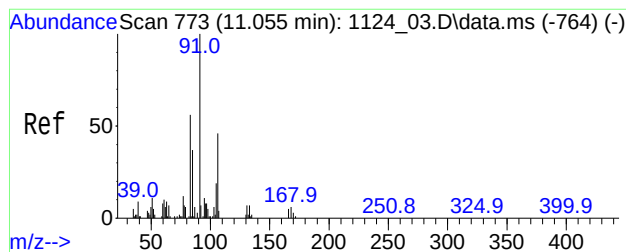
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	108867		
106	33.6		14.9	54.9
77	9.6		0.0	27.6



#58
m,p-Xylene
Conc: 8\$ 2.984 ppbv
RT: 11.474 min Scan# 1057
Delta R.T. -0.015 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

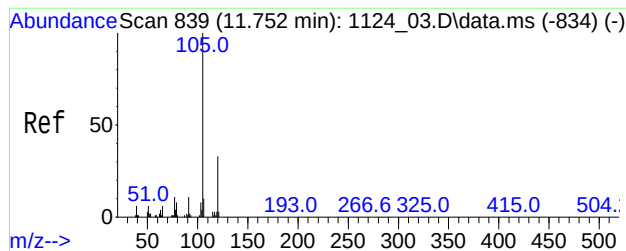
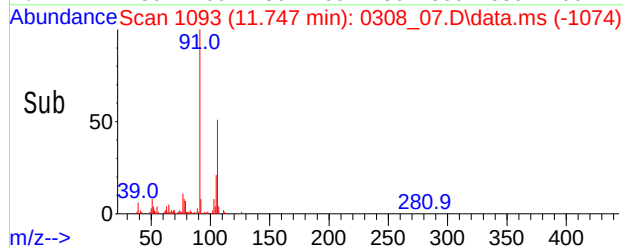
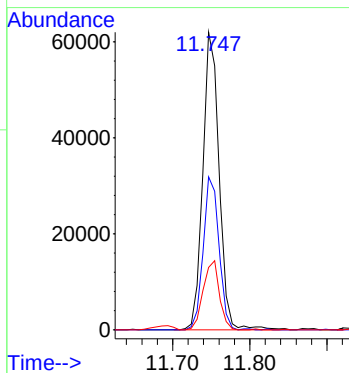
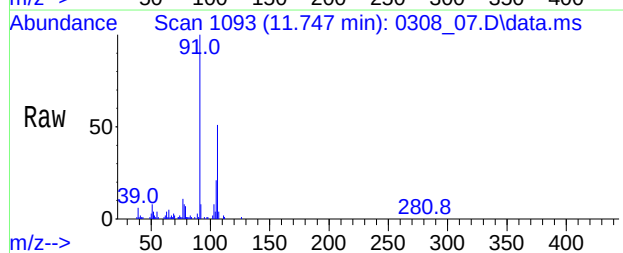
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	333347		
106	53.1		43.1	64.7
105	25.1		20.2	30.2





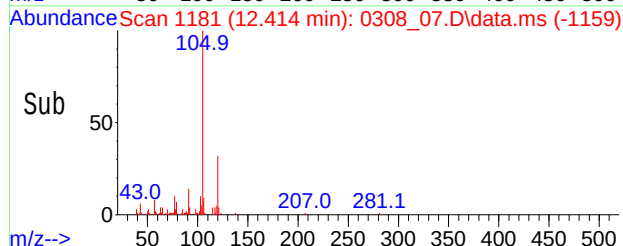
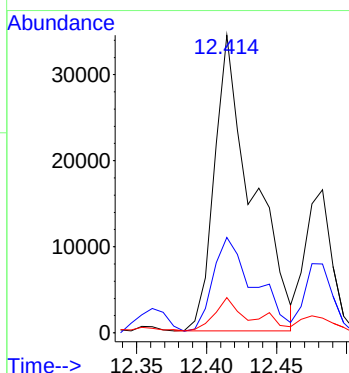
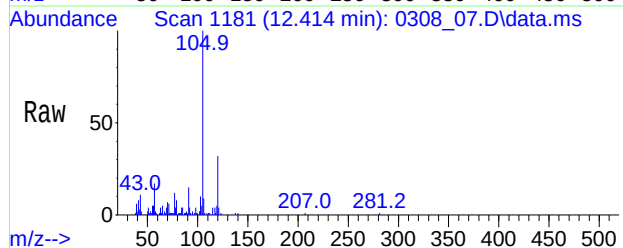
#62
o-Xylene
Conc: 8\$ 0.787 ppbv
RT: 11.747 min Scan# 1093
Delta R.T. -0.007 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

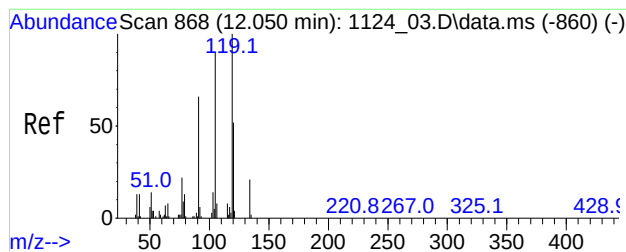
Tgt Ion:	91	Resp:	90825
Ion Ratio	Lower	Upper	
91	100		
106	49.7	40.5	60.7
105	23.1	16.9	25.3



#67
4-Ethyltoluene
Conc: 8\$ 0.354 ppbv
RT: 12.414 min Scan# 1181
Delta R.T. -0.030 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

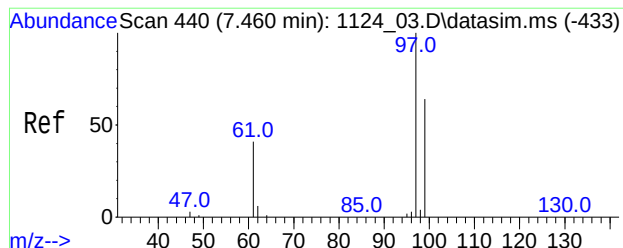
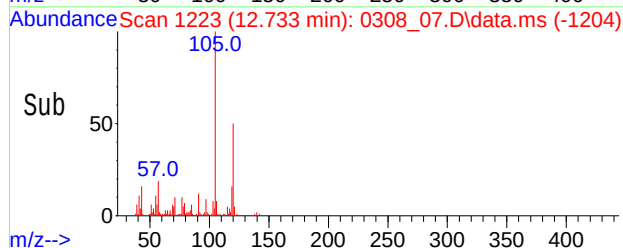
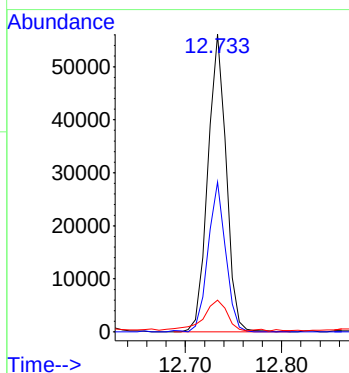
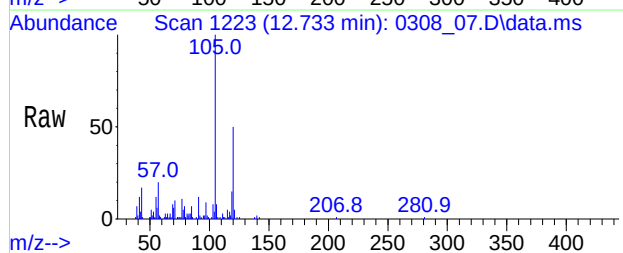
Tgt Ion:	105	Resp:	64735
Ion Ratio	Lower	Upper	
105	100		
120	36.0	25.2	37.8
77	10.8	7.0	10.6#





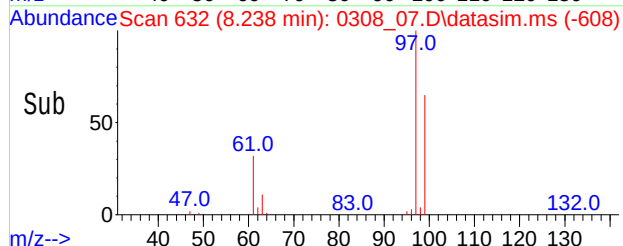
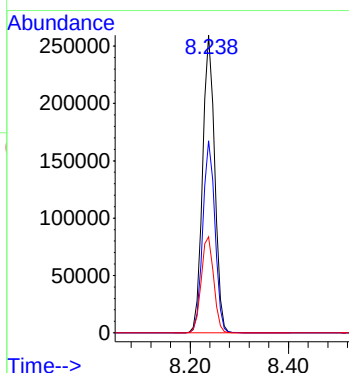
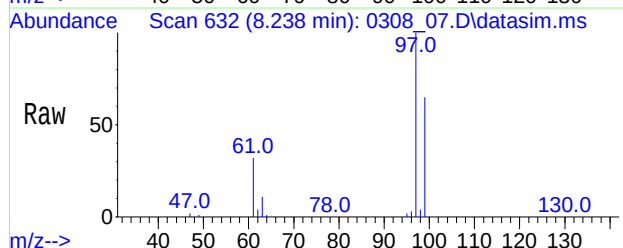
#69
1,2,4-Trimethylbenzene
Conc: 8\$ 0.491 ppbv
RT: 12.733 min Scan# 1223
Delta R.T. -0.007 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

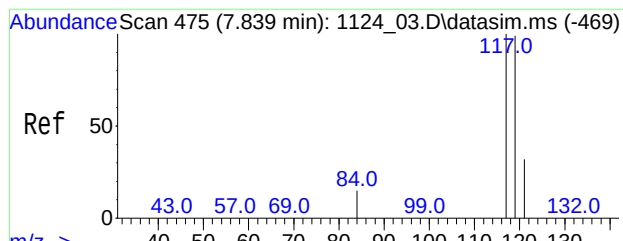
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	73868		
120	48.4	46.1	69.1	
77	13.3	15.4	23.2#	



#87
1,1,1-Trichloroethane(sim)
Conc: 8\$ 6.640 ppbv
RT: 8.238 min Scan# 632
Delta R.T. -0.008 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

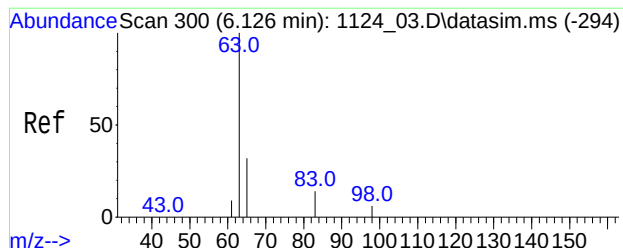
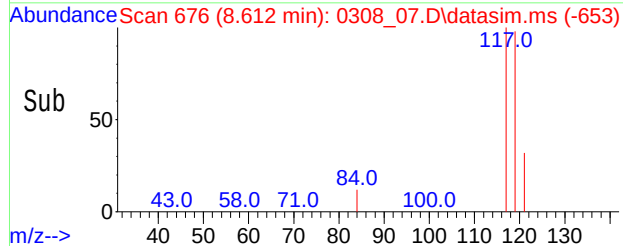
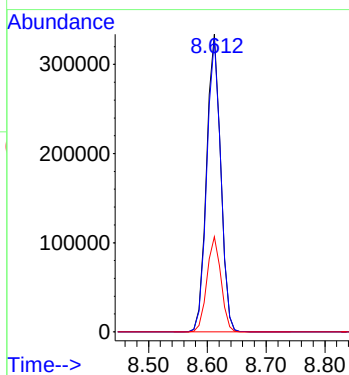
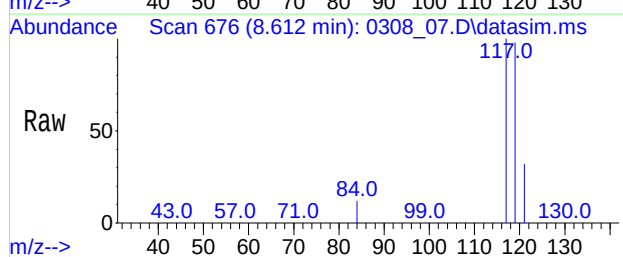
Tgt Ion	Ratio	Resp	Lower	Upper
97	100	455434		
99	64.4	64.8	64.8#	
61	32.5	26.3	39.5	





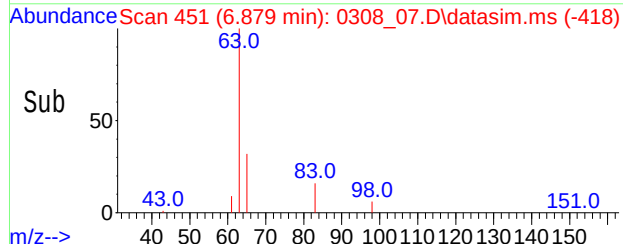
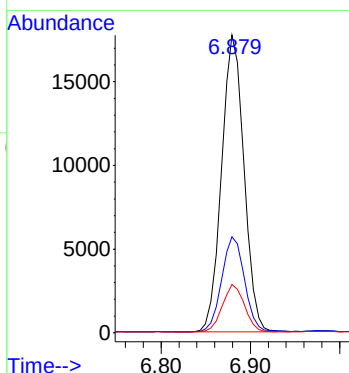
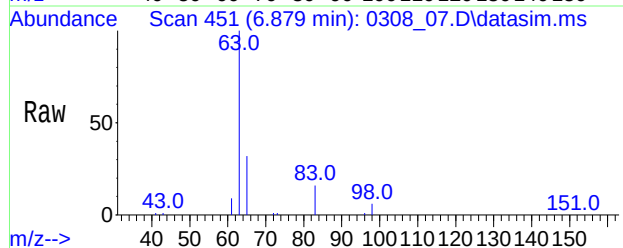
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 7.400 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

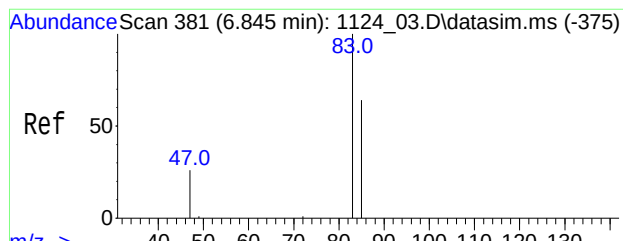
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	552107		
119	97.6	77.7	116.5	
121	31.8	25.1	37.7	



#93
1,1-Dichloroethane(sim)
Conc: 8\$ 0.612 ppbv
RT: 6.879 min Scan# 451
Delta R.T. -0.006 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

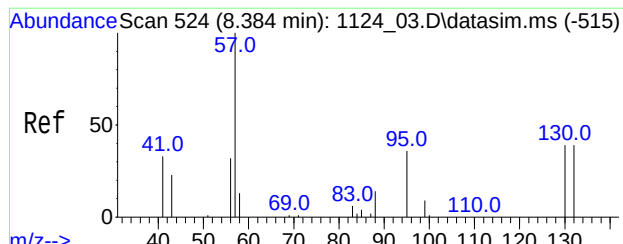
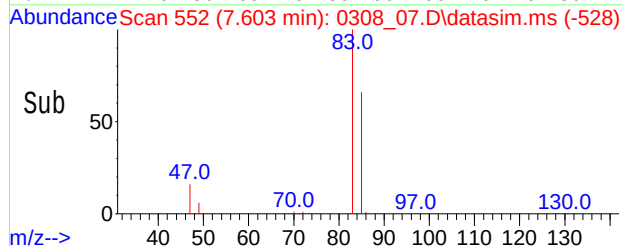
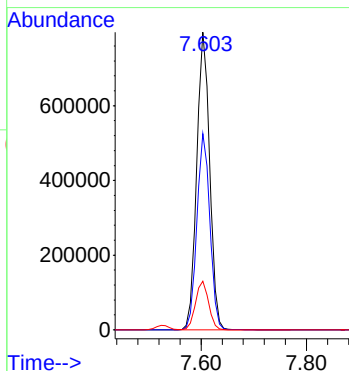
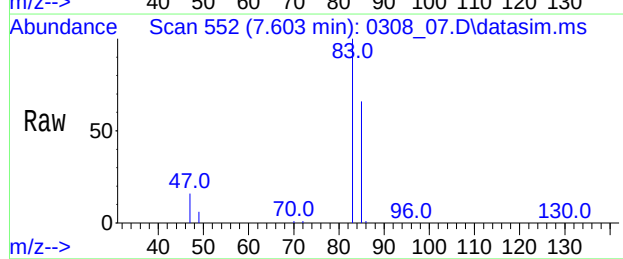
Tgt Ion	Ratio	Resp	Lower	Upper
63	100	30898		
65	32.7	26.1	39.1	
83	15.8	12.1	18.1	





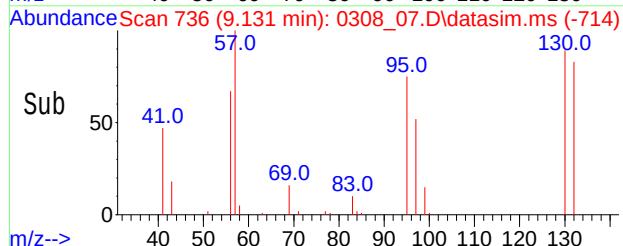
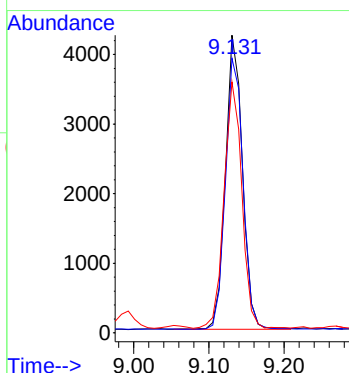
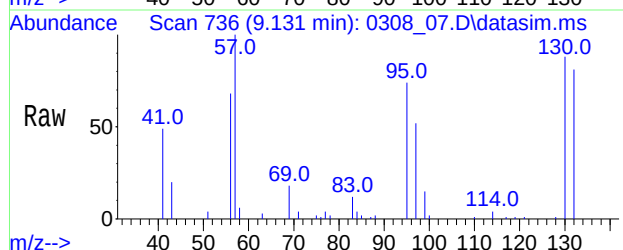
#95
Chloroform(sim)
Conc: 8\$ 19.165 ppbv
RT: 7.603 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

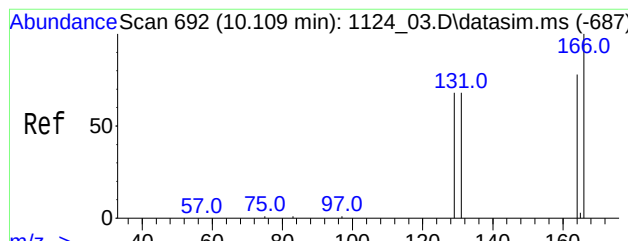
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	52.6	78.8
47	16.5	12.6	18.8



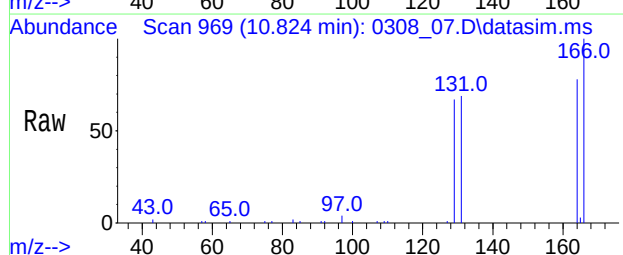
#99
Trichloroethene(sim)
Conc: 8\$ 0.129 ppbv
RT: 9.131 min Scan# 736
Delta R.T. -0.009 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	95.4	77.0	115.6
95	87.6	71.4	107.2

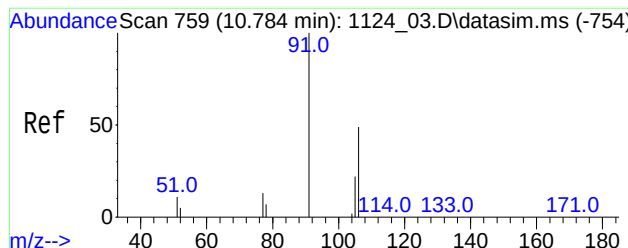
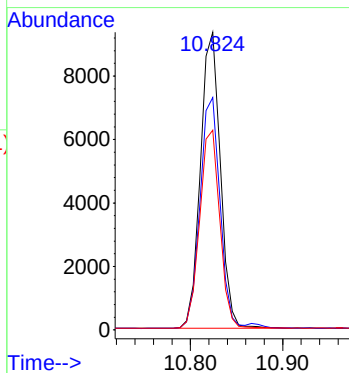
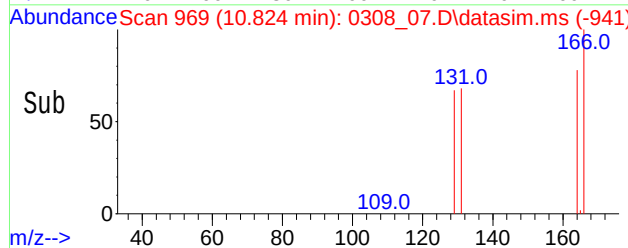




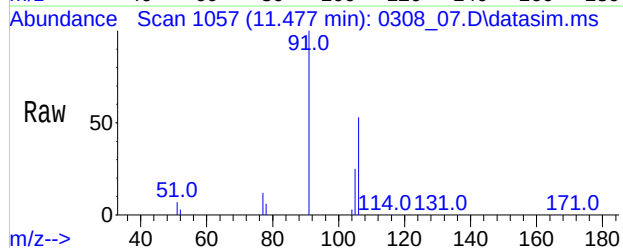
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.183 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm



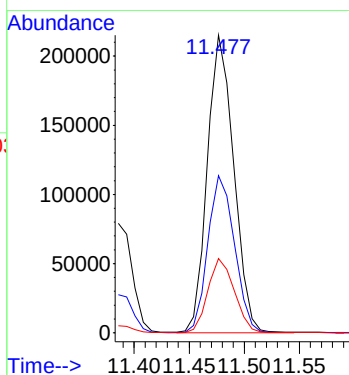
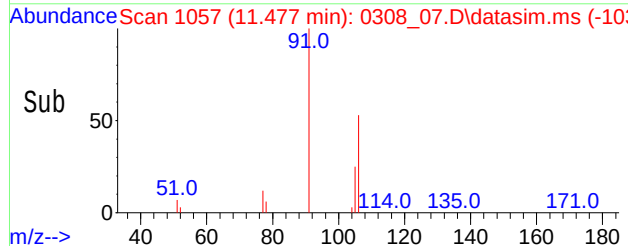
Tgt Ion: 166 Resp: 13973
Ion Ratio Lower Upper
166 100
164 78.1 57.9 97.9
129 67.8 50.0 90.0



#108
m,p-Xylene(sim)
Conc: 8\$ 2.864 ppbv
RT: 11.474 min Scan# 1057
Delta R.T. -0.015 min
Lab File: 0308_07.D
Acq: 8 Mar 2023 2:38 pm



Tgt Ion: 91 Resp: 336028
Ion Ratio Lower Upper
91 100
106 52.8 48.5 59.3
105 25.0 20.2 30.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN53534 LCS
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53534 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0307_03.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/06/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/07/23</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	8.11		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	10.8		0.202	0.202	r
74-87-3	Chloromethane	8.54		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	10.1		0.143	0.143	r
75-01-4	Vinyl Chloride	9.25		0.078	0.078	r
106-99-0	1,3-Butadiene	9.18		0.452	0.452	r
74-83-9	Bromomethane	9.69		0.258	0.258	r
75-00-3	Chloroethane	8.72		0.379	0.379	r
64-17-5	Ethanol	11.6		0.531	0.531	r
67-64-1	Acetone	9.55		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.2		0.178	0.178	r
67-63-0	Isopropylalcohol	10.5		0.407	0.407	r
107-13-1	Acrylonitrile	8.46		0.461	0.461	r
75-35-4	1,1-Dichloroethene	10.2		0.051	0.051	r
75-09-2	Methylene Chloride	9.17		0.863	0.863	r
75-15-0	Carbon Disulfide	9.66		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	10.3		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	9.32		0.252	0.252	r
75-34-3	1,1-Dichloroethane	9.41		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	9.63		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	8.58		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	9.18		0.051	0.051	r
110-54-3	Hexane	8.86		0.284	0.284	r
67-66-3	Chloroform	10.0		0.205	0.205	r
141-78-6	Ethyl acetate	7.03		0.278	0.278	r
109-99-9	Tetrahydrofuran	8.31		0.339	0.339	r
107-06-2	1,2-Dichloroethane	10.7		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	10.8		0.183	0.183	r
71-43-2	Benzene	9.11		0.313	0.313	r
56-23-5	Carbon Tetrachloride	11.1		0.032	0.032	r
110-82-7	Cyclohexane	8.91		0.291	0.291	r
78-87-5	1,2-dichloropropane	8.89		0.217	0.217	r
75-27-4	Bromodichloromethane	10.4		0.149	0.149	r
79-01-6	Trichloroethene	10.6		0.037	0.037	r
123-91-1	1,4-Dioxane	10.8		0.278	0.278	r
142-82-5	Heptane	8.82		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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53534 LCS</u>
Canister:	<u>LCS</u>	Lab File ID:	<u>0307_03.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/06/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/07/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
10061-01-5	cis-1,3-Dichloropropene	9.94		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	9.53		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.3		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.85		0.183	0.183	r
108-88-3	Toluene	9.77		0.266	0.266	r
124-48-1	Dibromochloromethane	11.0		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	9.63		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.3		0.130	0.130	r
127-18-4	Tetrachloroethene	10.8		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.8		0.146	0.146	r
108-90-7	Chlorobenzene	10.3		0.217	0.217	r
100-41-4	Ethylbenzene	10.2		0.230	0.230	r
179601-23-1	m,p-Xylene	21.6		0.230	0.230	r
75-25-2	Bromoform	11.5		0.097	0.097	r
100-42-5	Styrene	10.8		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	9.97		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	10.7		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	11.6		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	11.2		0.204	0.204	r
100-44-7	Benzyl chloride	11.1		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.9		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	11.7		0.166	0.166	r
135-98-8	sec-Butylbenzene	11.1		0.182	0.182	r
99-87-6	4-Isopropyltoluene	11.3		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	11.3		0.166	0.166	r
104-51-8	n-Butylbenzene	10.9		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	12.0		0.135	0.135	r
87-68-3	Hexachlorobutadiene	12.6		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_03.D
 Acq On : 7 Mar 2023 12:27 pm
 Operator :
 Client ID : CN53534 LCS
 Lab ID : CN53534 LCS
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 08 09:25:57 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	333266	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1254911	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	534589	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	317792	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1255423	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	534080	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	820520	10.376	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.80%

Target Compounds						Qvalue
2) Propylene	4.033	41	129896	8.114	ppbv	97
3) Dichlorodifluoromethane	4.097	85	851546	10.824	ppbv	99
4) Chloromethane	4.260	50	163019	8.539	ppbv	100
5) 1,2-Dichlorotetrafluor...	4.349	85	814240	10.123	ppbv	97
6) Vinyl Chloride	4.462	62	232911	9.246	ppbv	99
7) 1,3-Butadiene	4.584	54	156941	9.180	ppbv	96
8) Bromomethane	4.827	94	306914	9.688	ppbv#	99
9) Chloroethane	4.965	64	101491	8.718	ppbv	96
11) Ethanol	5.055	45	68485	11.628	ppbv	99
12) Acetone	5.436	43	288642	9.554	ppbv	94
13) Trichlorofluoromethane	5.565	101	936646	11.213	ppbv	99
14) Isopropylalcohol	5.621	45	371148	10.483	ppbv	97
15) Acrylonitrile	5.774	53	139564	8.457	ppbv	98
16) 1,1-Dichloroethene	6.031	61	409258	10.239	ppbv	97
17) Methylene Chloride	6.108	49	223445	9.167	ppbv	100
20) Carbon Disulfide	6.341	76	782694	9.660	ppbv	100
21) Trichlorotrifluoroethane	6.281	101	730392	10.324	ppbv	96
22) Trans-1,2-Dichloroethene	6.745	61	357977	9.317	ppbv	100
23) 1,1-Dichloroethane	6.882	63	446712	9.408	ppbv	99
24) Methyl tert-butyl ethe...	6.918	73	734542	9.632	ppbv	99
26) Methyl Ethyl Ketone	7.125	43	353584	8.580	ppbv	98
27) Cis-1,2-Dichloroethene	7.418	61	335255	9.184	ppbv	100
28) Hexane	7.537	57	336309	8.860	ppbv	92
29) Chloroform	7.600	83	658168	10.025	ppbv	99
30) Ethyl acetate	7.529	61	81254	7.027	ppbv	97
31) Tetrahydrofuran	7.870	42	198192	8.305	ppbv	97
32) 1,2-Dichloroethane	8.076	62	365509	10.658	ppbv	97
33) 1,1,1-Trichloroethane	8.235	97	717987	10.785	ppbv	99
34) Benzene	8.522	78	885017	9.107	ppbv	100
35) Carbon Tetrachloride	8.609	117	857041	11.108	ppbv	100
36) Cyclohexane	8.687	84	344999	8.912	ppbv	99
38) 1,2-dichloropropane	8.998	63	301633	8.892	ppbv#	87
39) Bromodichloromethane	9.111	83	714029	10.381	ppbv	99
40) Trichloroethene	9.128	130	591021	10.614	ppbv	98
42) 1,4-Dioxane	9.128	88	229651	10.759	ppbv	97
44) Heptane	9.266	43	359892	8.817	ppbv	99
45) cis-1,3-Dichloropropene	9.617	75	527980	9.935	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.624	43	485185	9.530	ppbv	99
47) trans-1,3-Dichloropropene	9.906	75	502446	10.339	ppbv	100
48) 1,1,2-Trichloroethane	10.019	97	436018	9.851	ppbv	98
49) Toluene	10.181	91	1273031	9.774	ppbv	99
50) Dibromochloromethane	10.434	129	1052768	11.011	ppbv	100

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_03.D
 Acq On : 7 Mar 2023 12:27 pm
 Operator :
 Client ID : CN53534 LCS
 Lab ID : CN53534 LCS
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 08 09:25:57 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.300	43	471678	9.632	ppbv	97
52)	1,2-Dibromoethane(EDB)	10.575	107	773516	10.258	ppbv	99
53)	Tetrachloroethene	10.821	166	917299	10.809	ppbv	99
55)	1,1,1,2-Tetrachloroethane	11.185	131	672926	10.786	ppbv	99
56)	Chlorobenzene	11.201	112	1155950	10.290	ppbv	99
57)	Ethylbenzene	11.390	91	1637889	10.156	ppbv	98
58)	m,p-Xylene	11.481	91	2708734	21.631	ppbv	99
59)	Bromoform	11.565	173	1366244	11.484	ppbv	99
60)	Styrene	11.686	104	1104271	10.797	ppbv	98
61)	1,1,2,2-Tetrachloroethane	11.747	83	963825	9.968	ppbv	98
62)	o-Xylene	11.747	91	1384400	10.708	ppbv	99
65)	Isopropylbenzene	12.073	105	1991829	10.598	ppbv	99
67)	4-Ethyltoluene	12.437	105	2185559	10.678	ppbv	96
68)	1,3,5-Trimethylbenzene	12.483	105	1830188	11.545	ppbv	94
69)	1,2,4-Trimethylbenzene	12.733	105	1894534	11.244	ppbv	100
71)	Benzyl chloride	12.832	91	1493761	11.141	ppbv	98
72)	1,3-Dichlorobenzene	12.855	146	1591655	10.908	ppbv	100
73)	1,4-Dichlorobenzene	12.893	146	1549407	11.733	ppbv	100
74)	sec-Butylbenzene	12.893	105	2625482	11.080	ppbv	99
75)	4-Isopropyltoluene	12.984	119	2613317	11.318	ppbv	99
76)	1,2-Dichlorobenzene	13.113	146	1543382	11.344	ppbv	99
77)	n-Butylbenzene	13.250	91	2024603	10.941	ppbv	99
78)	1,2,4-Trichlorobenzene	14.305	180	1601772	12.032	ppbv	99
80)	Hexachlorobutadiene	14.662	225	1713825	12.605	ppbv	99
82)	1,2-Dichlorotetrafluor...	4.349	85	813449	9.124	ppbv	97
83)	Vinyl Chloride(sim)	4.465	62	241443	8.338	ppbv	100
84)	Bromomethane(sim)	4.827	94	306914	8.586	ppbv#	99
85)	Trichlorofluoromethane...	5.568	101	963203	10.803	ppbv#	100
86)	1,2-Dichloroethane(sim)	8.076	62	365509	9.652	ppbv	97
87)	1,1,1-Trichloroethane(...	8.238	97	756273	10.304	ppbv#	100
88)	Benzene(sim)	8.522	78	885017	8.663	ppbv	100
89)	Carbon Tetrachloride(sim)	8.612	117	840195	10.524	ppbv	100
90)	1,1-Dichloroethene(sim)	6.031	61	409258	8.927	ppbv	97
91)	Trichlorotrifluoroetha...	6.284	101	736081	9.564	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.745	61	357977	8.423	ppbv	100
93)	1,1-Dichloroethane(sim)	6.879	63	467486	8.653	ppbv	100
94)	Cis-1,2-Dichloroethene...	7.418	61	335255	8.402	ppbv	100
95)	Chloroform(sim)	7.603	83	675274	8.858	ppbv	100
97)	1,2-dichloropropane(sim)	9.001	63	316460	8.137	ppbv#	88
98)	Bromodichloromethane(sim)	9.111	83	714029	9.615	ppbv	100
99)	Trichloroethene(sim)	9.131	130	570465	9.917	ppbv	99
100)	1,4-Dioxane(sim)	9.128	88	229651	10.713	ppbv	97
101)	cis-1,3-Dichloropropen...	9.613	75	558674	9.583	ppbv	99
102)	1,1,2-Trichloroethane(...	10.019	97	436018	8.959	ppbv	98
103)	Dibromochloromethane(sim)	10.437	129	1006870	10.693	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.575	107	773968	9.779	ppbv	99
105)	Tetrachloroethene(sim)	10.824	166	855214	10.044	ppbv	99
107)	Bromoform(sim)	11.568	173	1209786	11.044	ppbv	100
108)	m,p-Xylene(sim)	11.481	91	2713188	20.650	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.749	83	972268	9.069	ppbv	100
112)	Benzyl chloride(sim)	12.832	91	1493761	10.480	ppbv	98
113)	1,3-Dichlorobenzene(sim)	12.850	146	1687675	10.997	ppbv	100
114)	1,4-Dichlorobenzene(sim)	12.893	146	1548938	10.379	ppbv	100
115)	sec-Butylbenzene(sim)	12.736	105	2005845	11.121	ppbv	99
116)	4-Isopropyltoluene(sim)	12.984	119	2613317	11.219	ppbv	99

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_03.D
Acq On : 7 Mar 2023 12:27 pm
Operator :
Client ID : CN53534 LCS
Lab ID : CN53534 LCS
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 08 09:25:57 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration

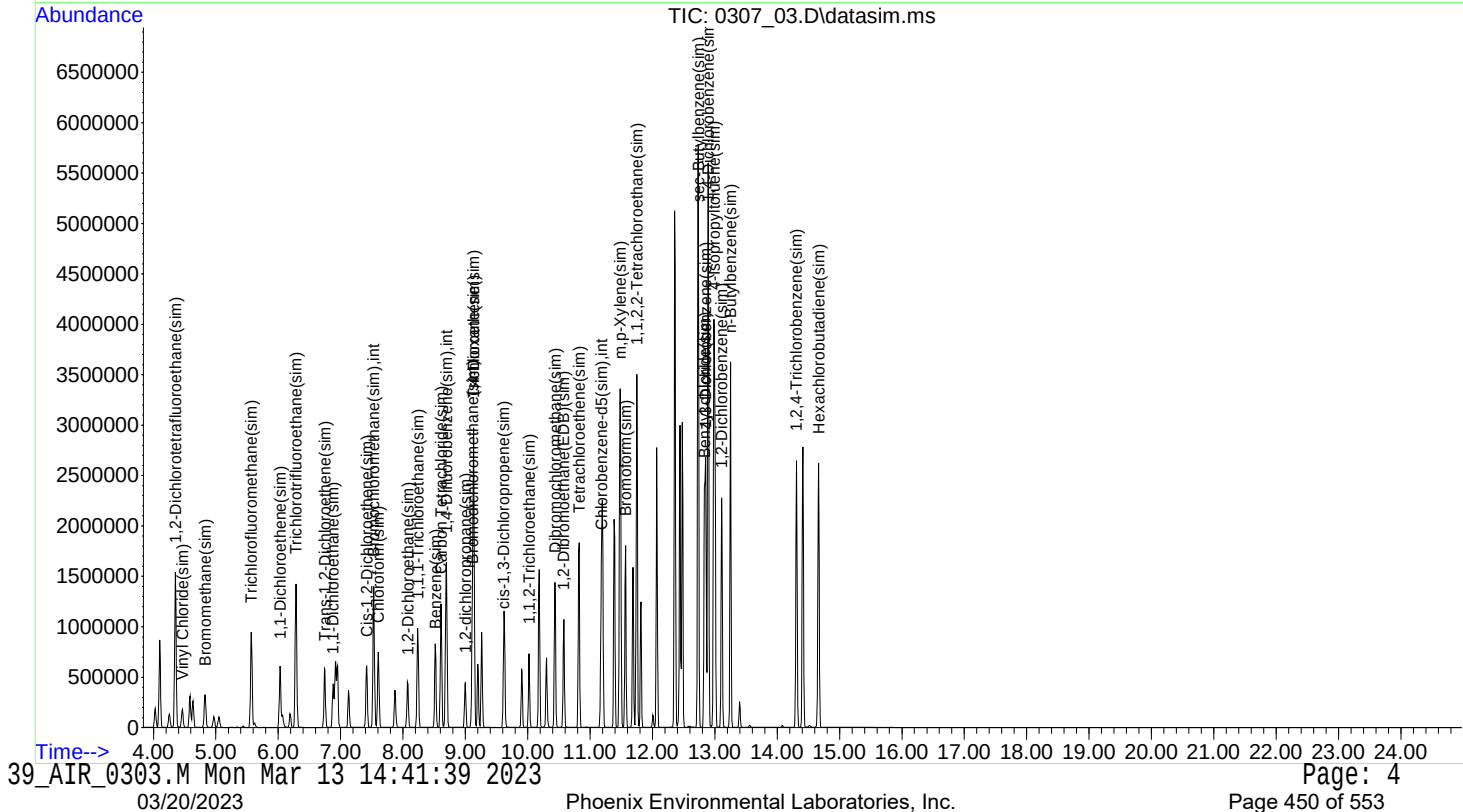
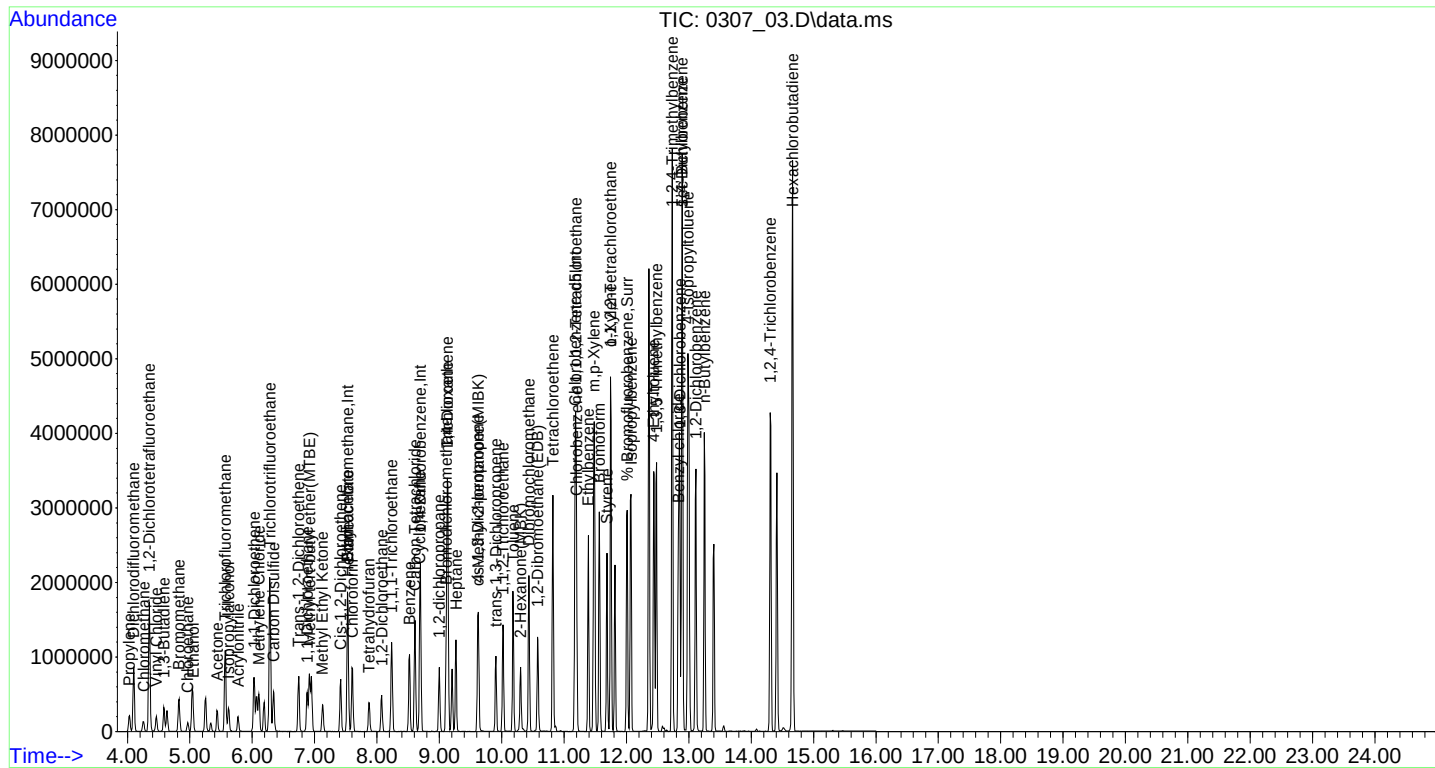
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.108	146	1584970	10.548	ppbv	100
118]	n-Butylbenzene(sim)	13.250	91	2024822	11.089	ppbv	99
119]	1,2,4-Trichlorobenzene...	14.308	180	1602801	11.240	ppbv	100
121]	Hexachlorobutadiene(sim)	14.665	225	1562827	11.578	ppbv	100

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

(QT Reviewed)

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_03.D
Acq On : 7 Mar 2023 12:27 pm
Operator :
Client ID : CN53534 LCS
Lab ID : CN53534 LCS
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Mar 08 09:25:57 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN53534 QC
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53534</u>	
Canister:	<u>12863</u>	Lab File ID:	<u>0307_05.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received: <u>03/06/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/07/23</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	0.481		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	33.6	S	0.531	0.531	r
67-64-1	Acetone	38.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.250		0.178	0.178	r
67-63-0	Isopropylalcohol	70.7	ES	0.407	0.407	
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	1.40	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.621		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	4.53		0.339	0.339	r
110-54-3	Hexane	2.92	S	0.284	0.284	r
67-66-3	Chloroform	242	E	0.205	0.205	
141-78-6	Ethyl acetate	1.73		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.339	U	0.339	0.339	r
71-43-2	Benzene	0.500		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
75-27-4	Bromodichloromethane	1.80		0.149	0.149	r
142-82-5	Heptane	2.58		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	5.31		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.380		0.244	0.244	r
127-18-4	Tetrachloroethene	1.00		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	0.908		0.230	0.230	r
179601-23-1	m,p-Xylene	3.55		0.230	0.230	r
100-42-5	Styrene	0.575		0.235	0.235	r
95-47-6	o-Xylene	1.54		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.903		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.333		0.204	0.204	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

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CN53534
Canister:	12863	Lab File ID:	0307_05.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
Purge Volume	200	(cc)	03/06/23
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	1.19		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
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)	0.099		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
79-01-6	Trichloroethene(sim)	0.161		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
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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_05.D
 Acq On : 7 Mar 2023 1:42 pm
 Operator :
 Client ID : CN53534 QC
 Lab ID : CN53534 QC
 ALS Vial : 35 Sample Multiplier: 1

Quant Time: Mar 08 11:37:17 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	339562	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1277364	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	541813	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	324891	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1278324	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	541819	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	816854	10.192	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.90%

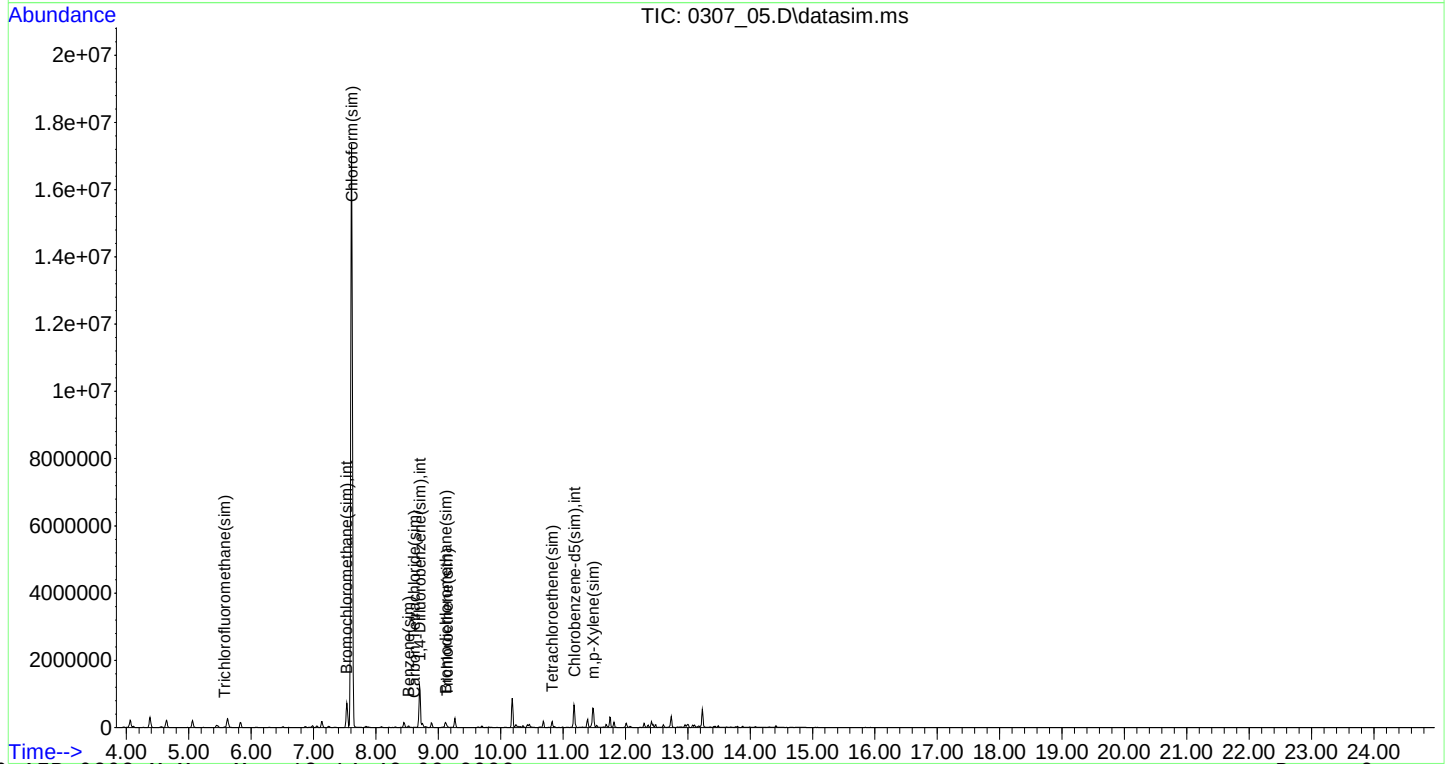
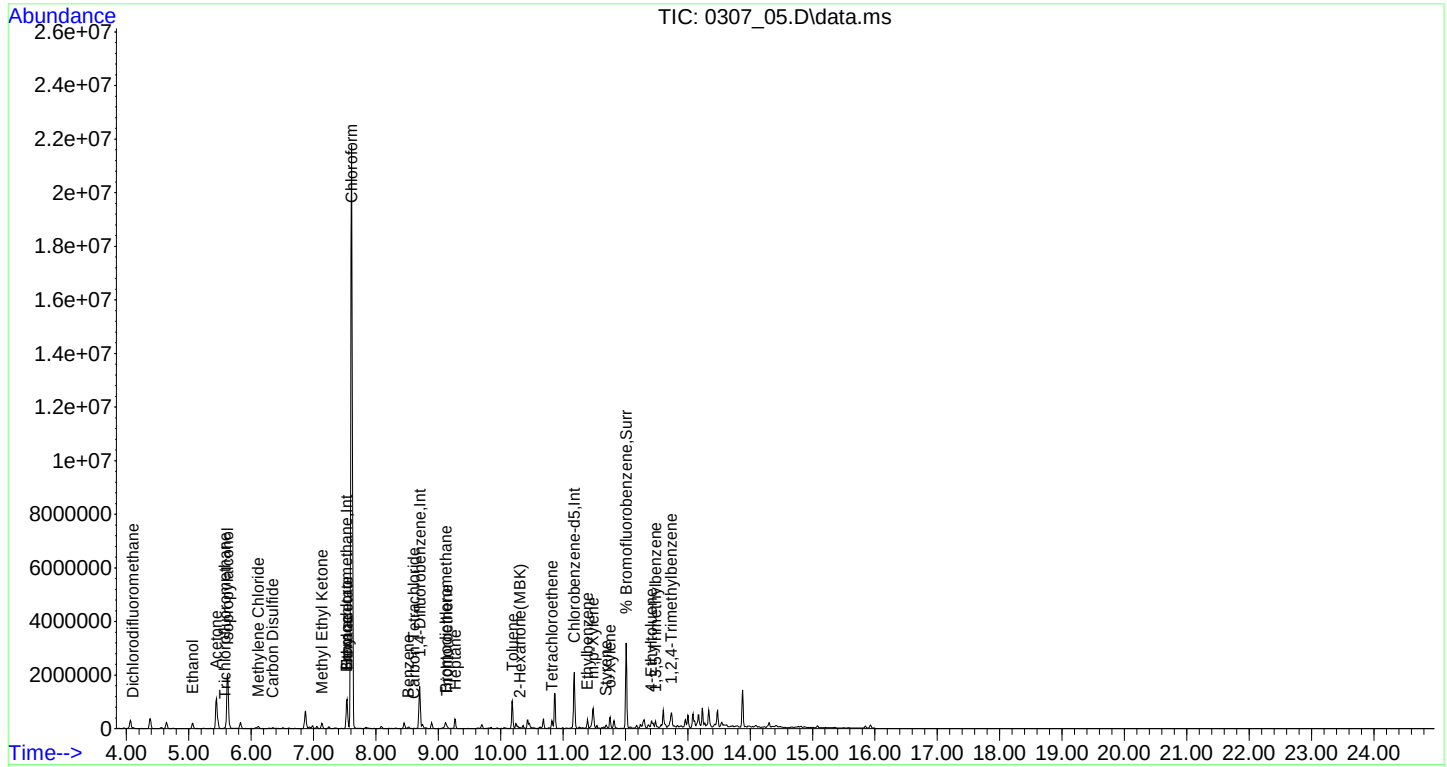
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	4.106	85	38573	0.481	ppbv	97
11) Ethanol	5.063	45	201466	33.572	ppbv	97
12) Acetone	5.443	43	1190584	38.676	ppbv	99
13) Trichlorofluoromethane	5.578	101	21274	0.250	ppbv	99
14) Isopropylalcohol	5.621	45	2551905	70.741	ppbv	99
17) Methylene Chloride	6.114	49	34754	1.399	ppbv	96
20) Carbon Disulfide	6.347	76	51302	0.621	ppbv	99
26) Methyl Ethyl Ketone	7.132	43	190318	4.532	ppbv	99
28) Hexane	7.537	57	112924	2.920	ppbv	92
29) Chloroform	7.608	83	16195816	242.126	ppbv	96
30) Ethyl acetate	7.537	61	20416	1.733	ppbv	95
34) Benzene	8.522	78	49542	0.500	ppbv	95
35) Carbon Tetrachloride	8.609	117	8628	0.110	ppbv	94
39) Bromodichloromethane	9.119	83	126300	1.804	ppbv	99
40) Trichloroethene	9.137	130	10021m	0.177	ppbv	94
44) Heptane	9.266	43	107046	2.576	ppbv	96
49) Toluene	10.188	91	703406	5.306	ppbv	100
51) 2-Hexanone(MBK)	10.307	43	18958	0.380	ppbv#	97
53) Tetrachloroethene	10.821	166	86349	1.000	ppbv	95
57) Ethylbenzene	11.390	91	148489	0.908	ppbv	99
58) m,p-Xylene	11.481	91	450443	3.549	ppbv	100
60) Styrene	11.686	104	59552	0.575	ppbv	96
62) o-Xylene	11.754	91	201170	1.535	ppbv	99
67) 4-Ethyltoluene	12.414	105	187405	0.903	ppbv	95
68) 1,3,5-Trimethylbenzene	12.483	105	53455	0.333	ppbv	95
69) 1,2,4-Trimethylbenzene	12.733	105	202790	1.187	ppbv	88
75) 4-Isopropyltoluene	12.984	119	41853	0.179	ppbv#	72
85) Trichlorofluoromethane...	5.574	101	22229	0.244	ppbv#	99
88) Benzene(sim)	8.522	78	49542	0.474	ppbv	95
89) Carbon Tetrachloride(sim)	8.612	117	8076	0.099	ppbv	97
95) Chloroform(sim)	7.611	83	16335642	209.607	ppbv	95
98) Bromodichloromethane(sim)	9.119	83	126300	1.670	ppbv	98
99) Trichloroethene(sim)	9.139	130	9409	0.161	ppbv	96
105) Tetrachloroethene(sim)	10.824	166	80831	0.932	ppbv	99
108) m,p-Xylene(sim)	11.481	91	451080	3.384	ppbv	100
116) 4-Isopropyltoluene(sim)	12.984	119	41853	0.177	ppbv#	72

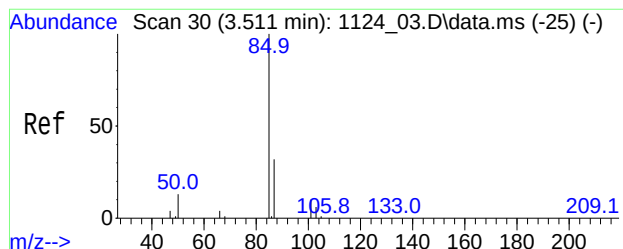
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data File : 0307_05.D  
Acq On : 7 Mar 2023 1:42 pm  
Operator :  
Client ID : CN53534 QC  
Lab ID : CN53534 QC  
ALS Vial : 35 Sample Multiplier: 1
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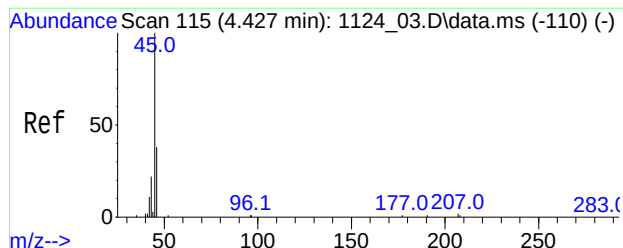
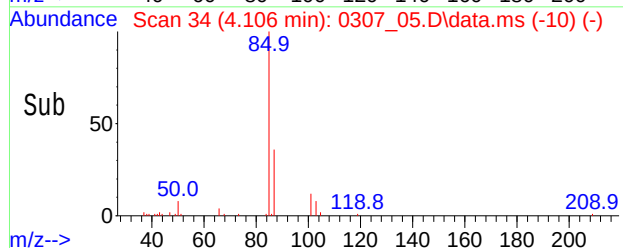
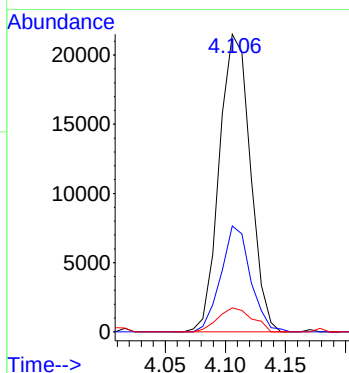
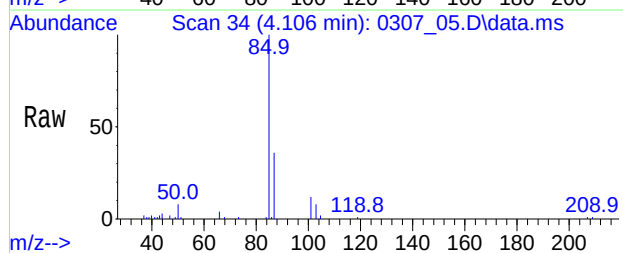
Quant Time: Mar 08 11:37:17 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





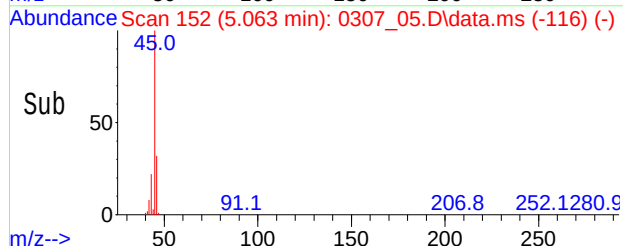
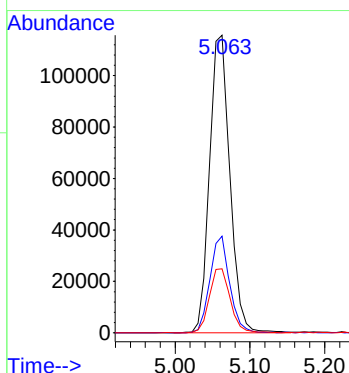
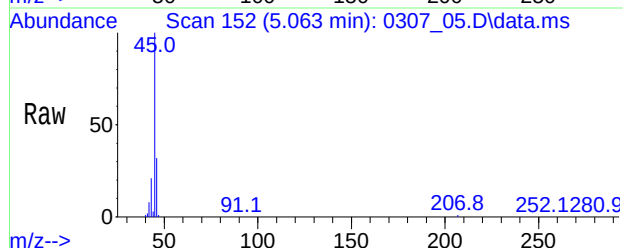
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.481 ppbv
 RT: 4.106 min Scan# 34
 Delta R.T. -0.008 min
 Lab File: 0307_05.D
 Acq: 7 Mar 2023 1:42 pm

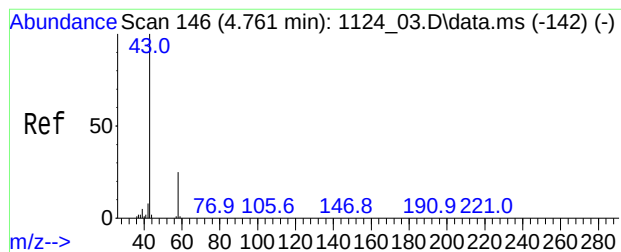
Tgt Ion: 85 Resp: 38573
 Ion Ratio Lower Upper
 85 100
 87 34.2 26.2 39.4
 50 9.0 6.2 9.2



#11
 Ethanol
 Conc: 8\$ 33.572 ppbv
 RT: 5.063 min Scan# 152
 Delta R.T. -0.008 min
 Lab File: 0307_05.D
 Acq: 7 Mar 2023 1:42 pm

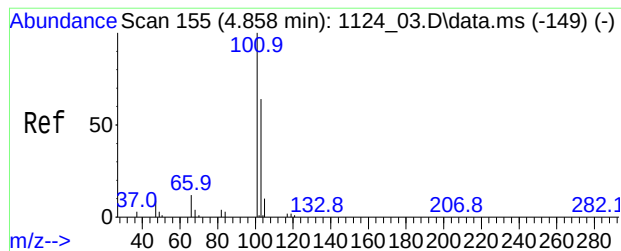
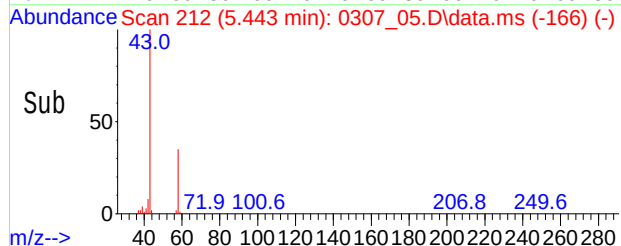
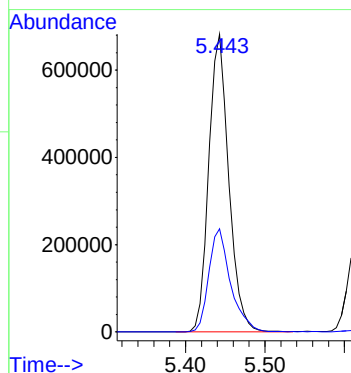
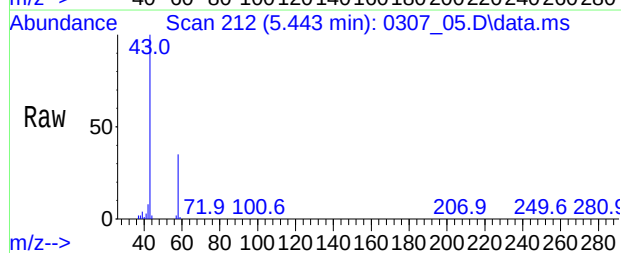
Tgt Ion: 45 Resp: 201466
 Ion Ratio Lower Upper
 45 100
 46 32.2 27.0 40.4
 43 22.5 17.0 25.4





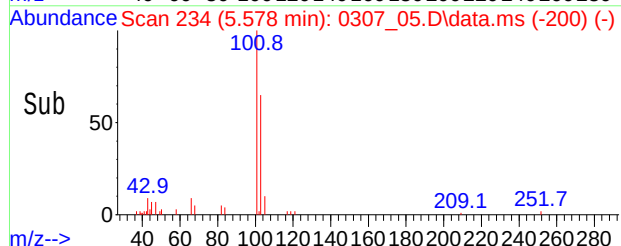
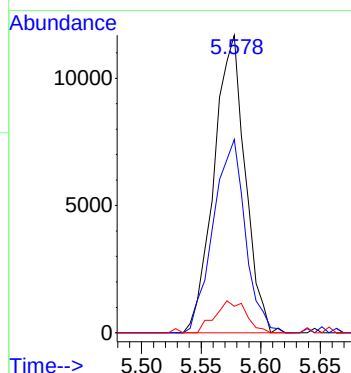
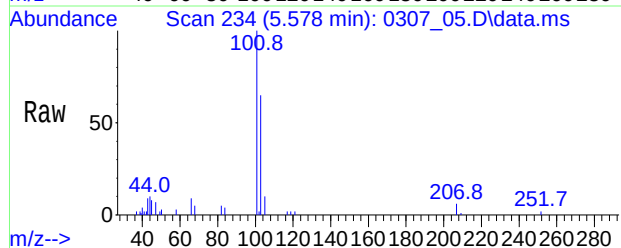
#12
Acetone
Conc: 8\$ 38.676 ppbv
RT: 5.443 min Scan# 212
Delta R.T. -0.018 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

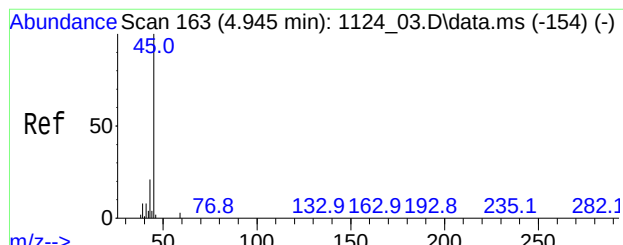
Tgt Ion: 43 Resp: 1190584
Ion Ratio Lower Upper
43 100
58 37.7 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.250 ppbv
RT: 5.578 min Scan# 234
Delta R.T. 0.006 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

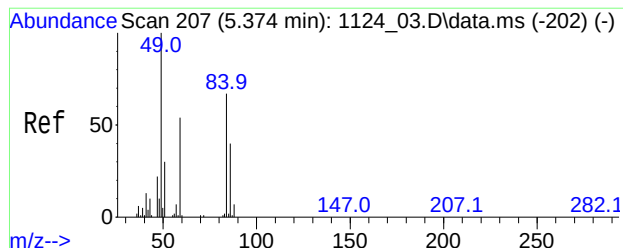
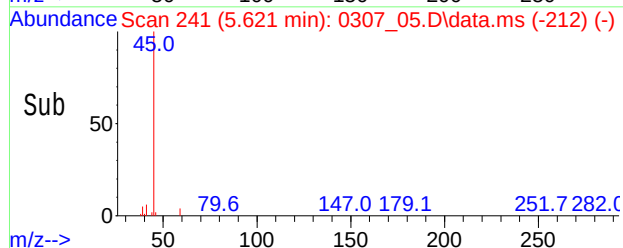
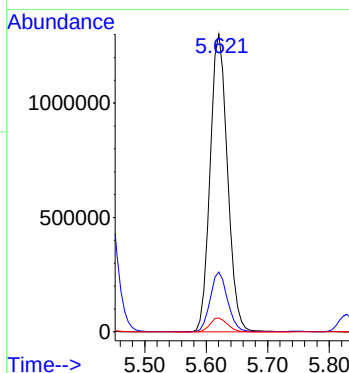
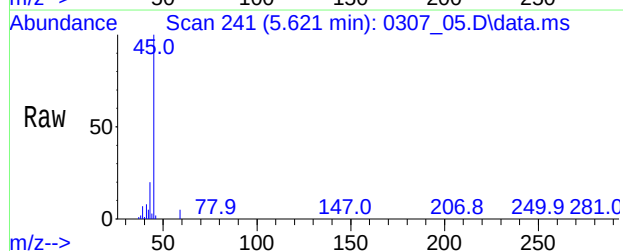
Tgt Ion: 101 Resp: 21274
Ion Ratio Lower Upper
101 100
103 66.9 52.9 79.3
66 10.8 7.3 10.9





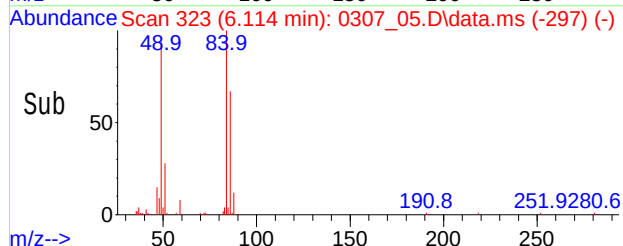
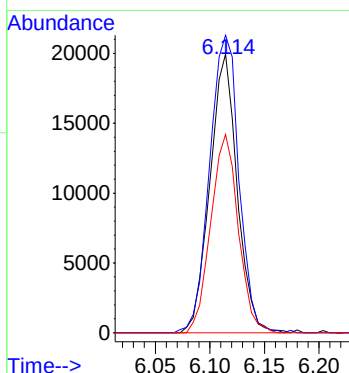
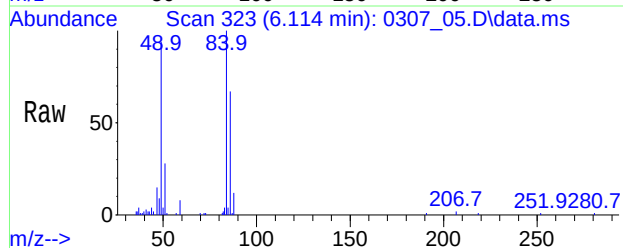
#14
Isopropylalcohol
Conc: 8\$ 70.741 ppbv
RT: 5.621 min Scan# 241
Delta R.T. -0.024 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

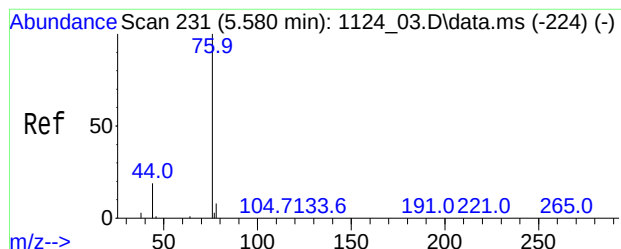
Tgt Ion: 45 Resp: 2551905
Ion Ratio Lower Upper
45 100
43 19.9 15.4 23.0
59 4.7 3.9 5.9



#17
Methylene Chloride
Conc: 8\$ 1.399 ppbv
RT: 6.114 min Scan# 323
Delta R.T. 0.006 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

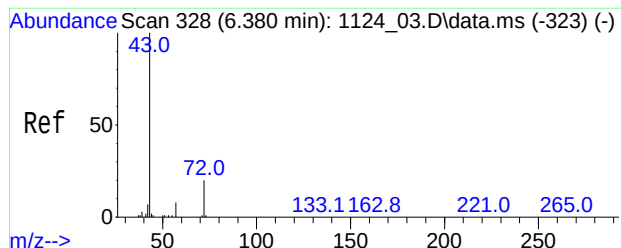
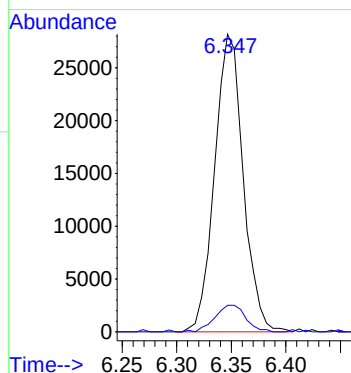
Tgt Ion: 49 Resp: 34754
Ion Ratio Lower Upper
49 100
84 114.3 94.4 141.6
86 71.5 61.5 92.3





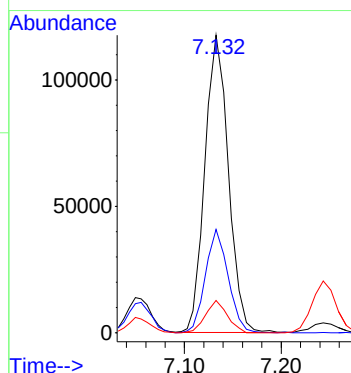
#20
Carbon Disulfide
Conc: 8\$ 0.621 ppbv
RT: 6.347 min Scan# 362
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

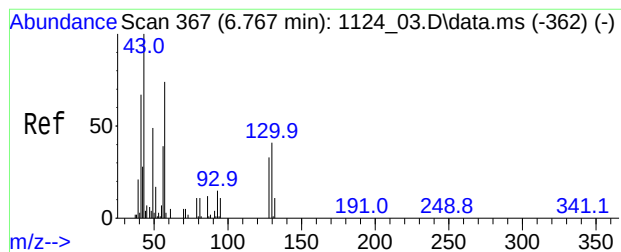
Tgt Ion: 76 Resp: 51302
Ion Ratio Lower Upper
76 100
78 9.7 7.4 11.0



#26
Methyl Ethyl Ketone
Conc: 8\$ 4.532 ppbv
RT: 7.132 min Scan# 493
Delta R.T. -0.016 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

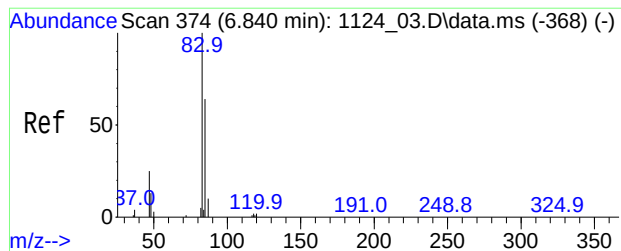
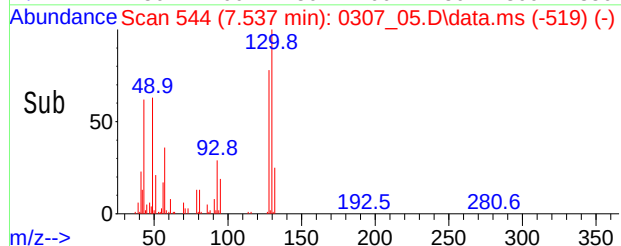
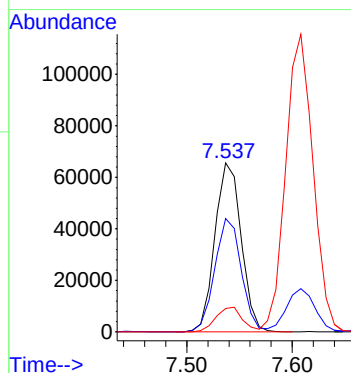
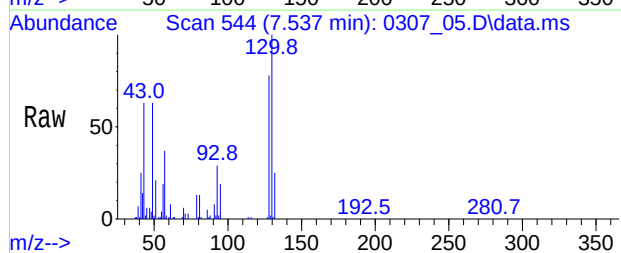
Tgt Ion: 43 Resp: 190318
Ion Ratio Lower Upper
43 100
72 33.4 27.2 40.8
57 10.0 7.8 11.8





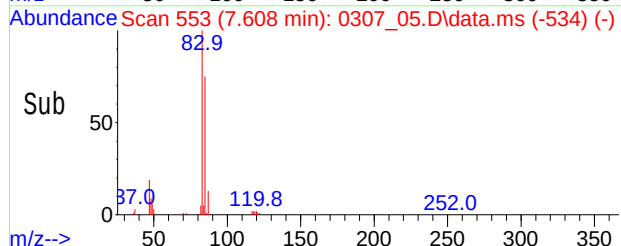
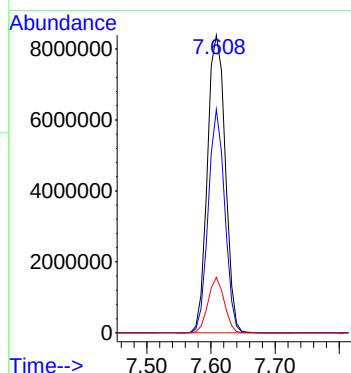
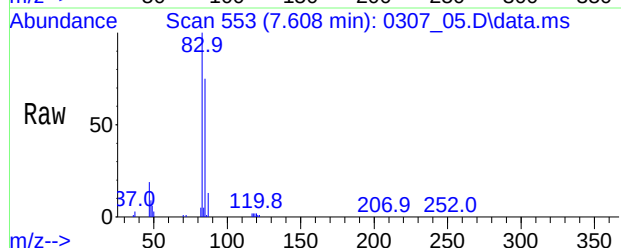
#28
Hexane
Conc: 8\$ 2.920 ppbv
RT: 7.537 min Scan# 544
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

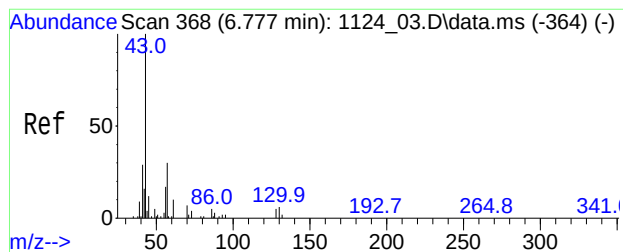
Tgt Ion	Ratio	Lower	Upper
57	100		
41	67.9	48.7	73.1
86	15.0	11.0	16.4



#29
Chloroform
Conc: 8\$ 242.126 ppbv
RT: 7.608 min Scan# 553
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

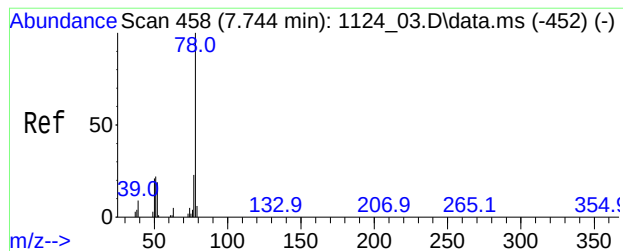
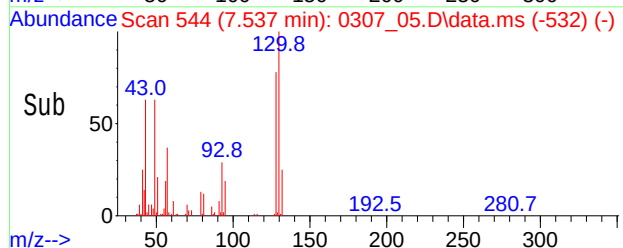
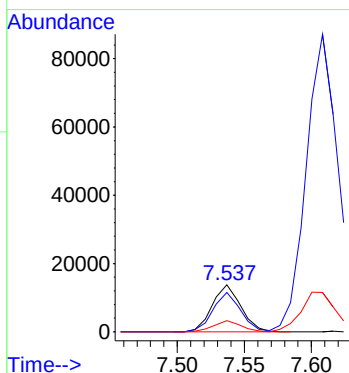
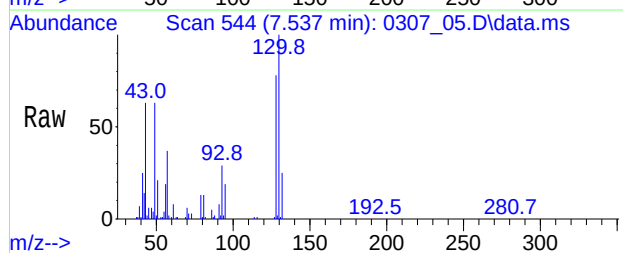
Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.1	46.1	86.1
47	16.9	0.0	35.3





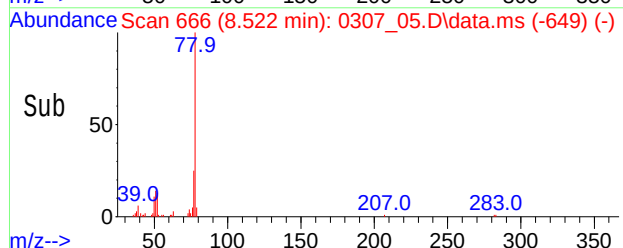
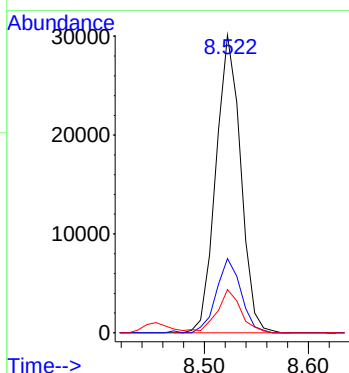
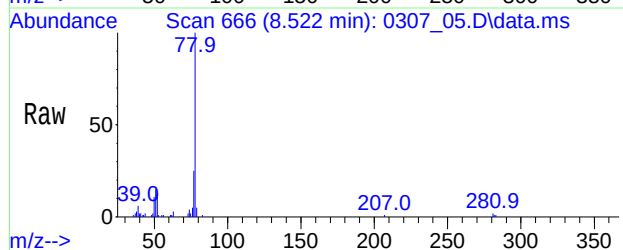
#30
Ethyl acetate
Conc: 8\$ 1.733 ppbv
RT: 7.537 min Scan# 544
Delta R.T. -0.008 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

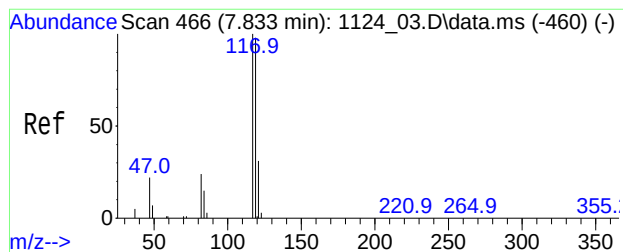
Tgt Ion	Ratio	Lower	Upper
61	100		
70	81.8	61.0	91.6
88	23.1	17.8	26.6



#34
Benzene
Conc: 8\$ 0.500 ppbv
RT: 8.522 min Scan# 666
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

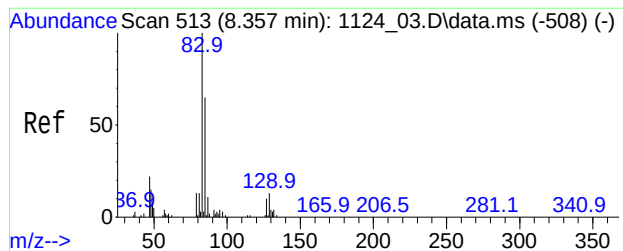
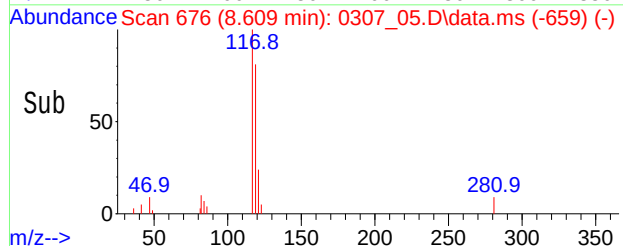
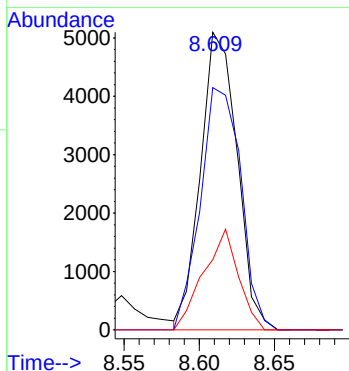
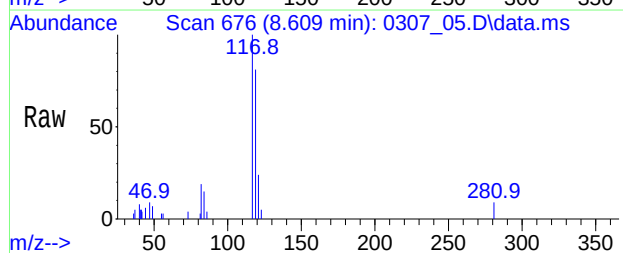
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.4	27.6
51	14.2	9.7	14.5





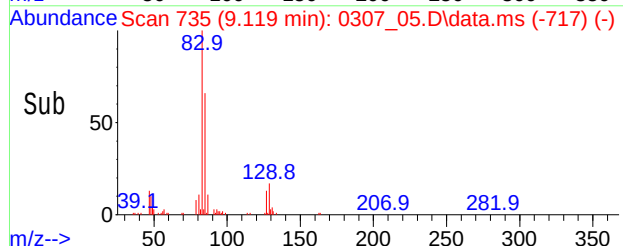
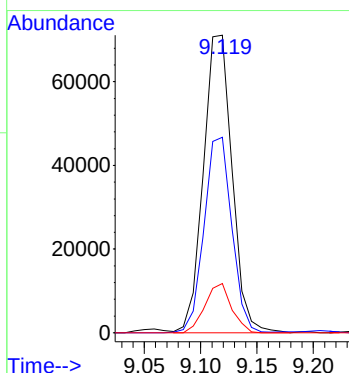
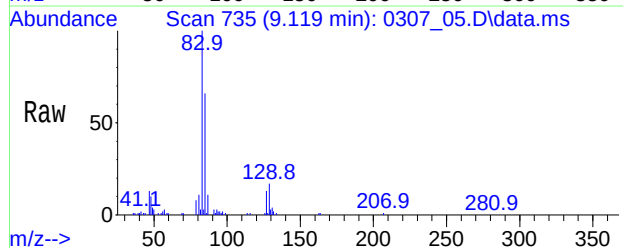
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

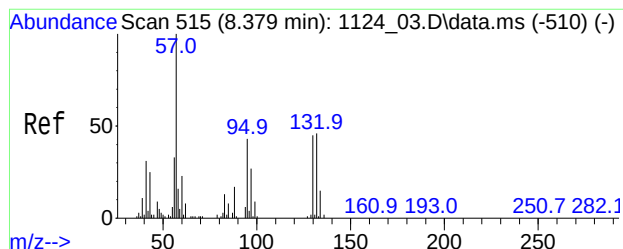
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	8628		
119	90.3	77.0	117.0	
121	32.3	11.5	51.5	



#39
Bromodichloromethane
Conc: 8\$ 1.804 ppbv
RT: 9.119 min Scan# 735
Delta R.T. 0.009 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

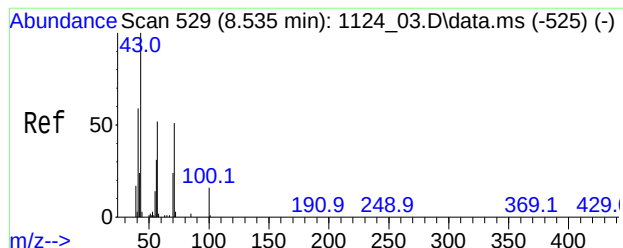
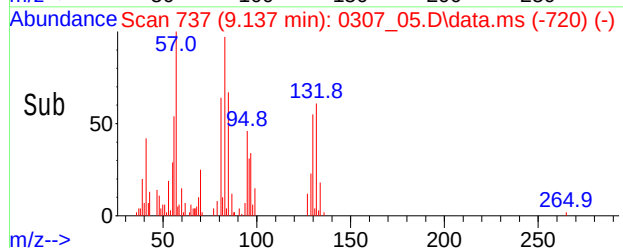
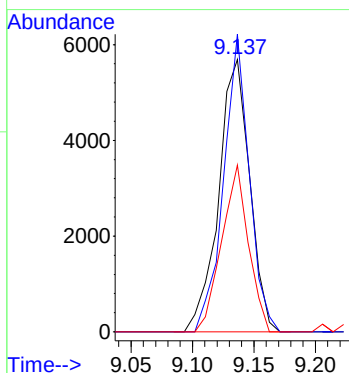
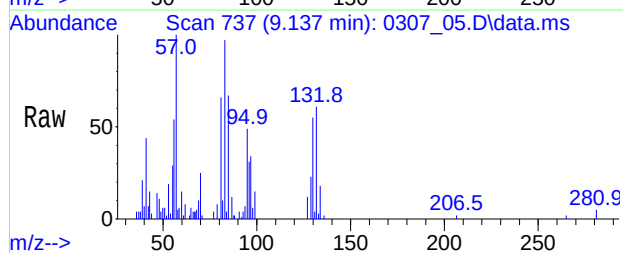
Tgt Ion	Ratio	Resp	Lower	Upper
83	100	126300		
85	63.5	44.1	84.1	
129	15.4	0.0	35.7	





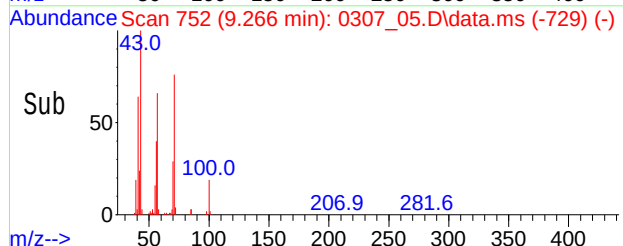
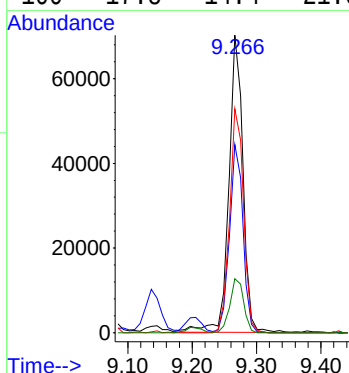
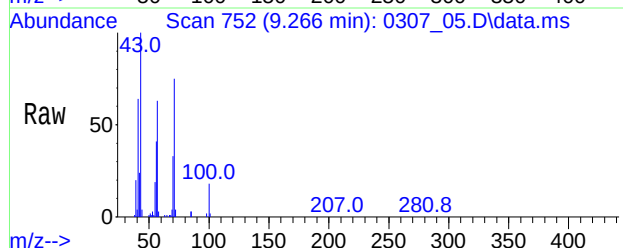
#40
Trichloroethene
Conc: 8\$ 0.177 ppbv
RT: 9.137 min Scan# 737
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

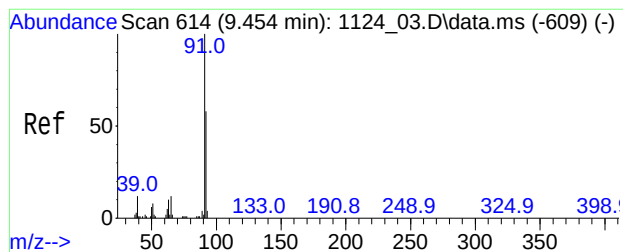
Tgt Ion	Ratio	Lower	Upper
130	100		
132	90.2	77.4	116.2
97	52.7	45.3	67.9



#44
Heptane
Conc: 8\$ 2.576 ppbv
RT: 9.266 min Scan# 752
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

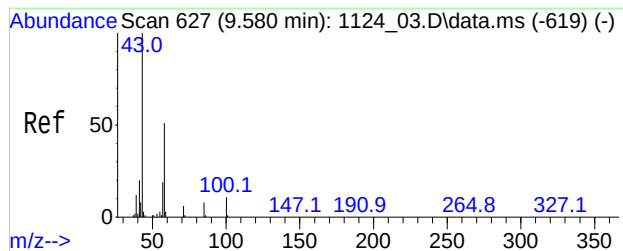
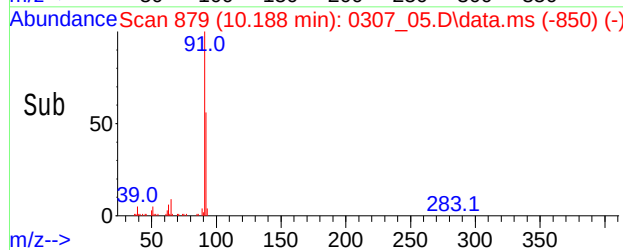
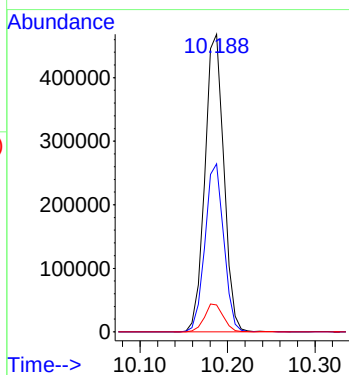
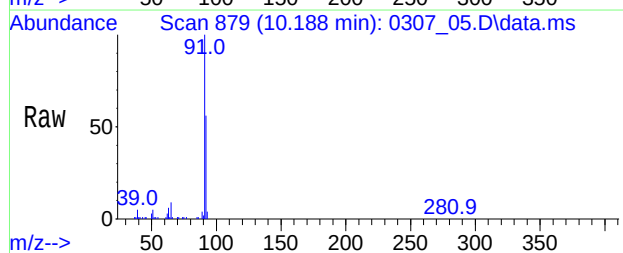
Tgt Ion	Ratio	Lower	Upper
43	100		
57	60.2	50.6	75.8
71	74.0	62.9	94.3
100	17.8	14.4	21.6





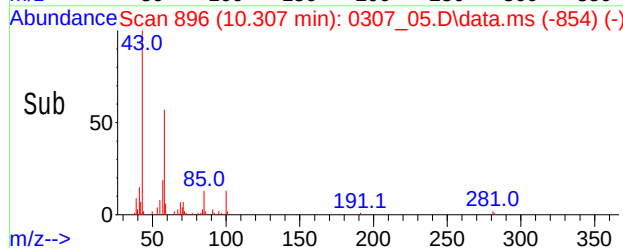
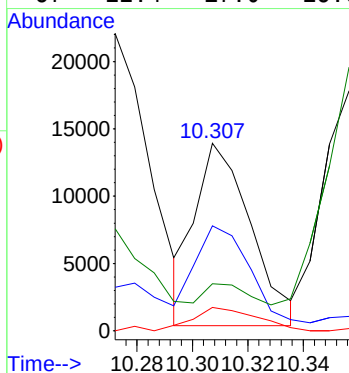
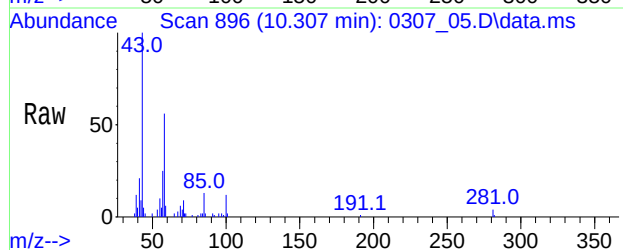
#49
Toluene
Conc: 8\$ 5.306 ppbv
RT: 10.188 min Scan# 879
Delta R.T. 0.007 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

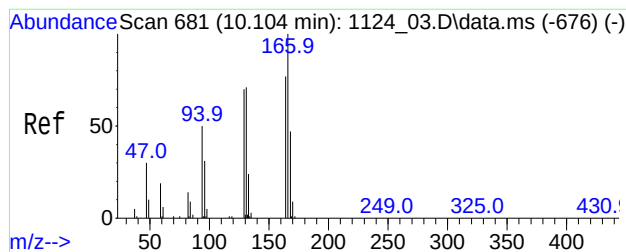
Tgt Ion	Ratio	Lower	Upper
91	100		
92	56.0	44.6	66.8
65	9.4	7.2	10.8



#51
2-Hexanone(MBK)
Conc: 8\$ 0.380 ppbv
RT: 10.307 min Scan# 896
Delta R.T. -0.007 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

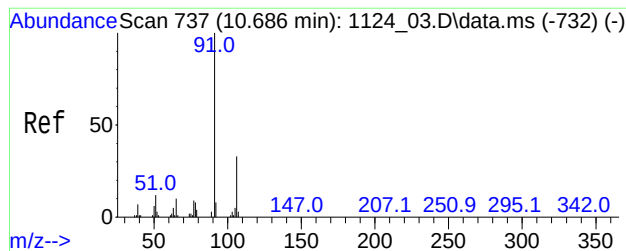
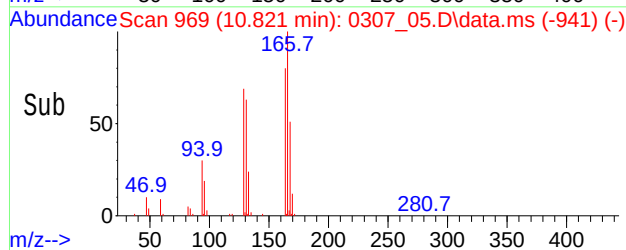
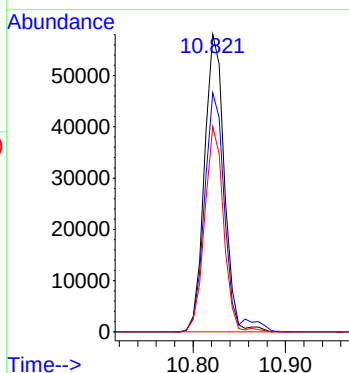
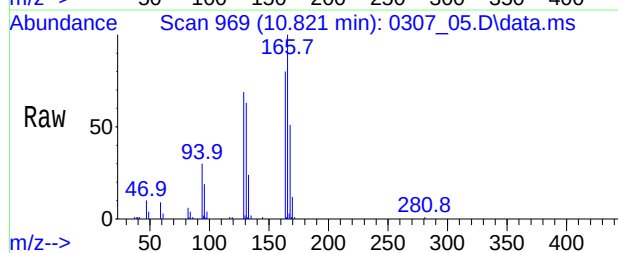
Tgt Ion	Ratio	Lower	Upper
43	100		
58	60.4	50.3	75.5
100	14.7	9.8	14.6#
57	22.4	17.0	25.6





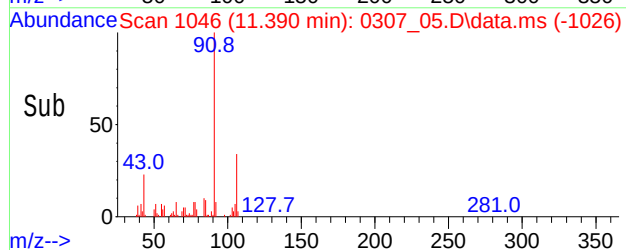
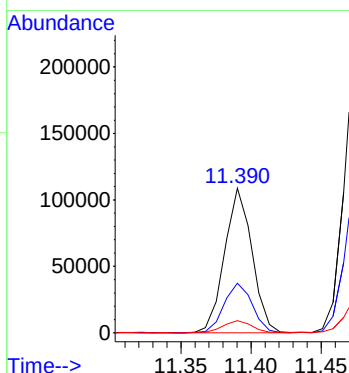
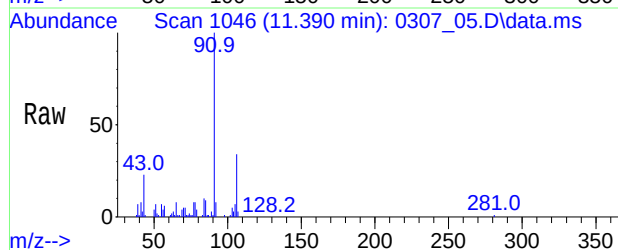
#53
Tetrachloroethene
Conc: 8\$ 1.000 ppbv
RT: 10.821 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

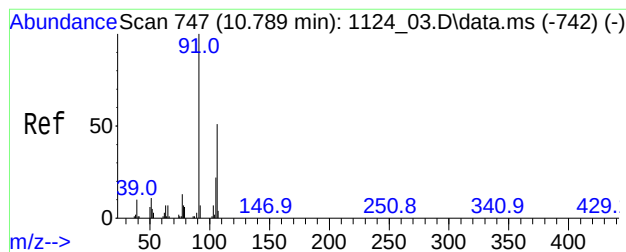
Tgt Ion	Ratio	Resp	Lower	Upper
166	100	86349		
164	82.9	62.3	93.5	
129	65.7	54.7	82.1	



#57
Ethylbenzene
Conc: 8\$ 0.908 ppbv
RT: 11.390 min Scan# 1046
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

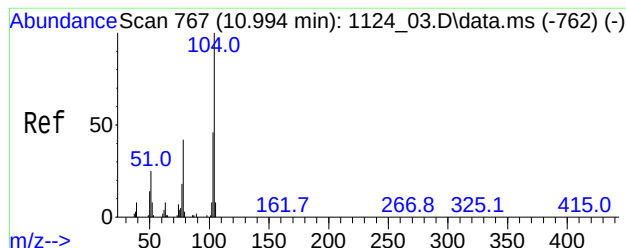
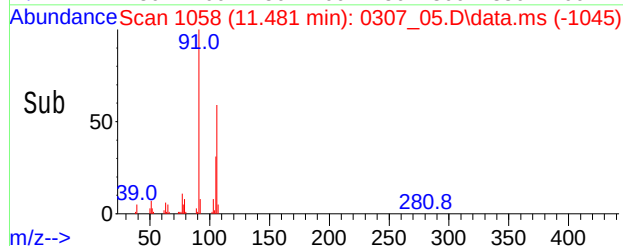
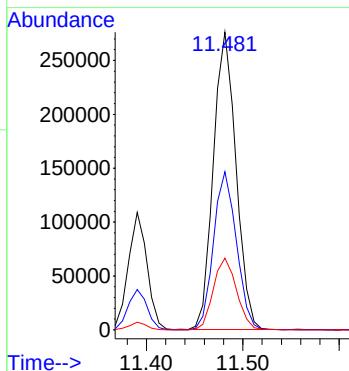
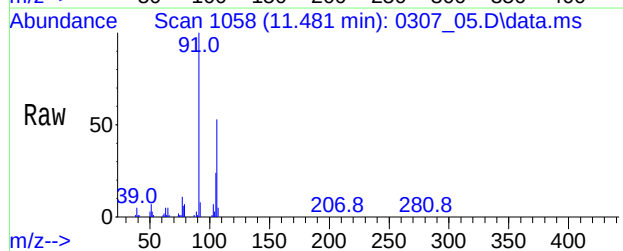
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	148489		
106	35.0	14.9	54.9	
77	9.0	0.0	27.6	





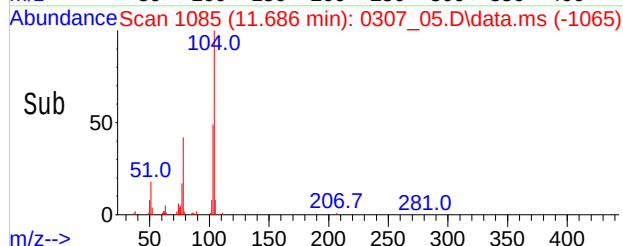
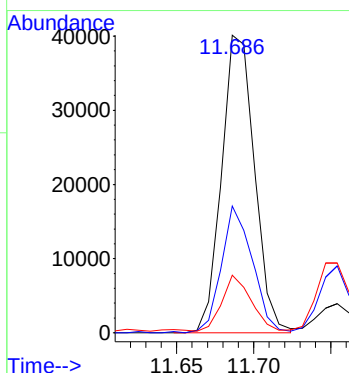
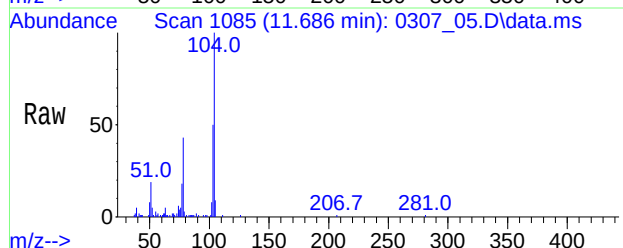
#58
m,p-Xylene
Conc: 8\$ 3.549 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

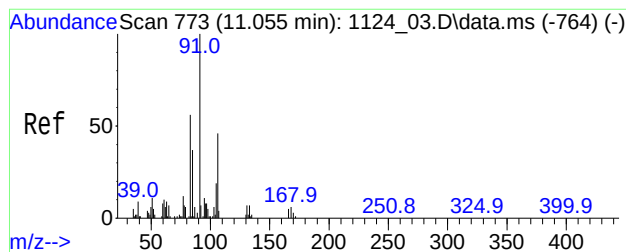
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	450443		
106	53.9		43.1	64.7
105	24.8		20.2	30.2



#60
Styrene
Conc: 8\$ 0.575 ppbv
RT: 11.686 min Scan# 1085
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

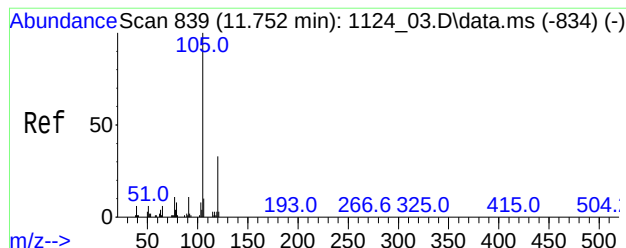
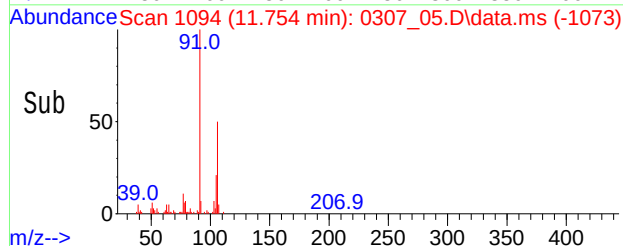
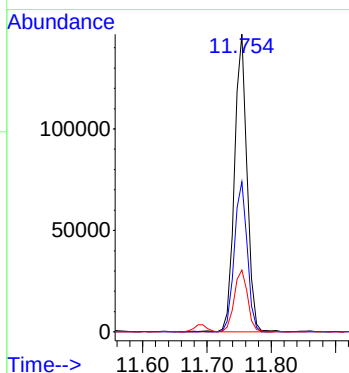
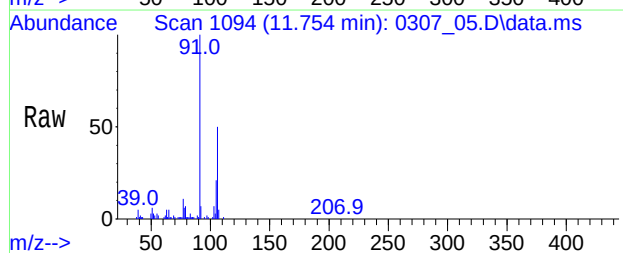
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	59552		
78	40.2		30.0	45.0
51	16.9		12.4	18.6





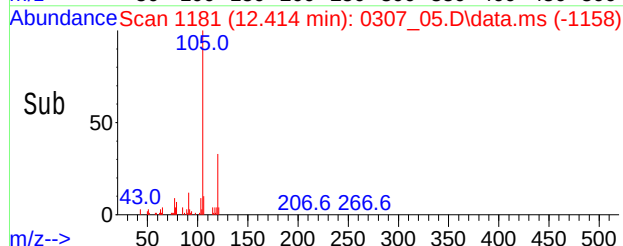
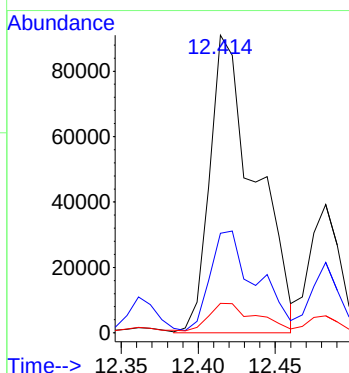
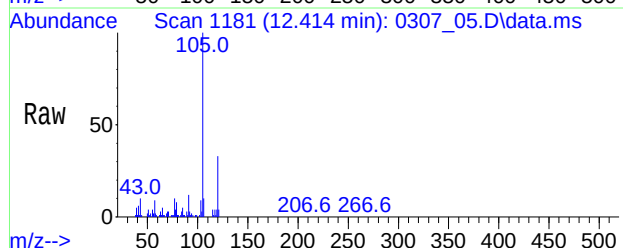
#62
o-Xylene
Conc: 8\$ 1.535 ppbv
RT: 11.754 min Scan# 1094
Delta R.T. 0.008 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

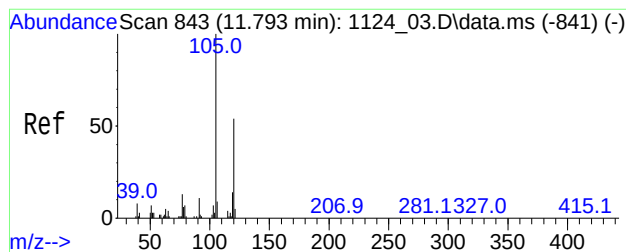
Tgt Ion	Ratio	Lower	Upper
91	100		
106	51.4	40.5	60.7
105	22.1	16.9	25.3



#67
4-Ethyltoluene
Conc: 8\$ 0.903 ppbv
RT: 12.414 min Scan# 1181
Delta R.T. -0.023 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

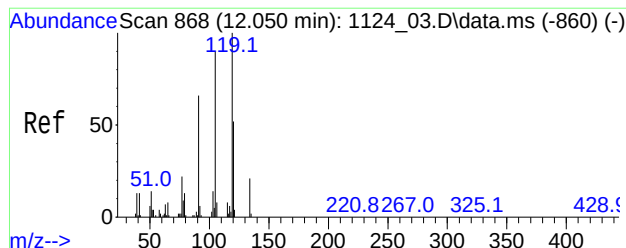
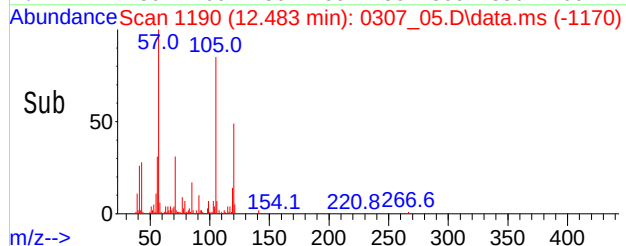
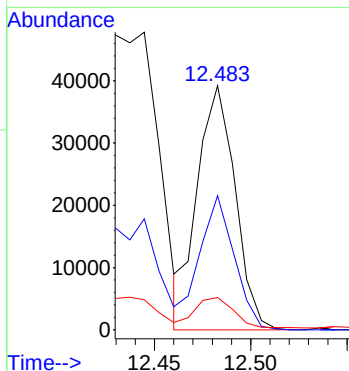
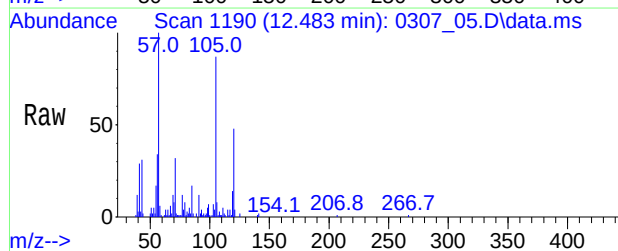
Tgt Ion	Ratio	Lower	Upper
105	100		
120	34.8	25.2	37.8
77	9.9	7.0	10.6





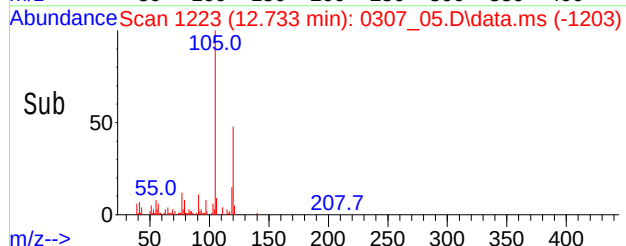
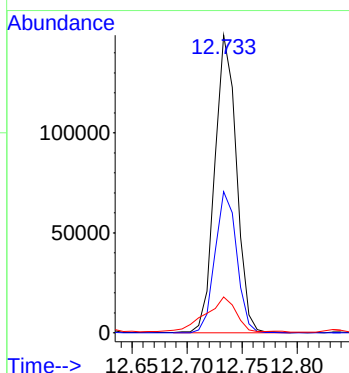
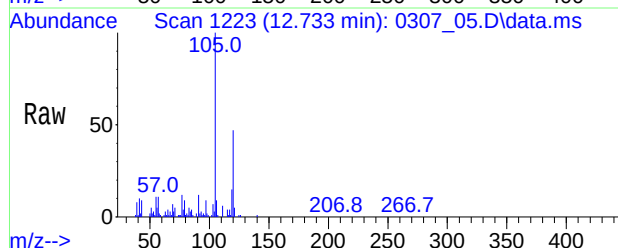
#68
1,3,5-Trimethylbenzene
Conc: 8\$ 0.333 ppbv
RT: 12.483 min Scan# 1190
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

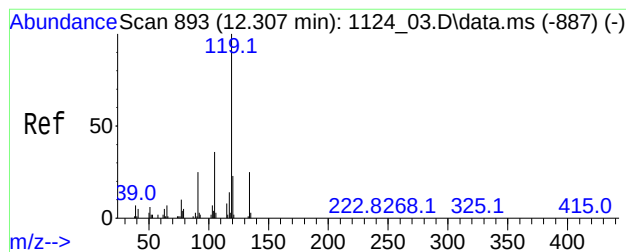
Tgt Ion:	105	Resp:	53455
Ion Ratio	Lower	Upper	
105	100		
120	51.0	44.1	66.1
77	12.8	8.9	13.3



#69
1,2,4-Trimethylbenzene
Conc: 8\$ 1.187 ppbv
RT: 12.733 min Scan# 1223
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

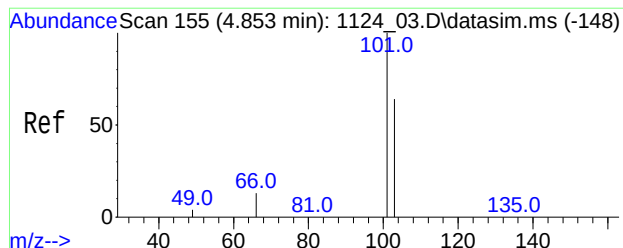
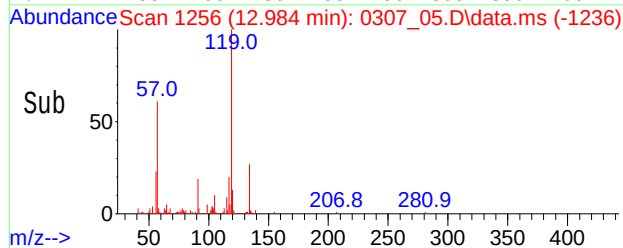
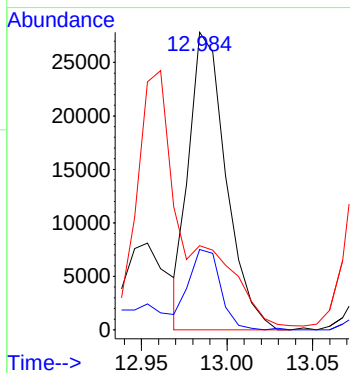
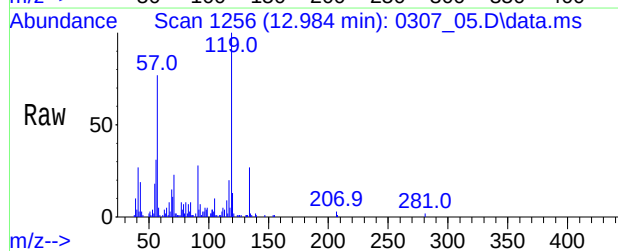
Tgt Ion:	105	Resp:	202790
Ion Ratio	Lower	Upper	
105	100		
120	47.4	46.1	69.1
77	17.1	15.4	23.2





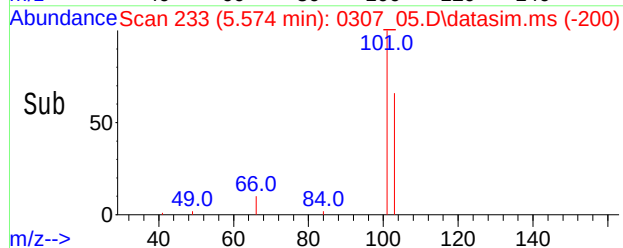
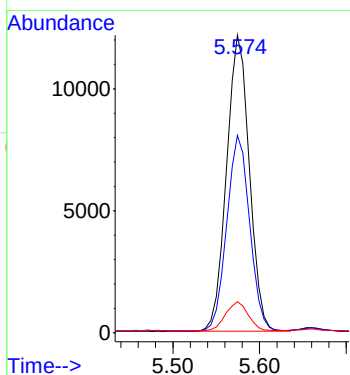
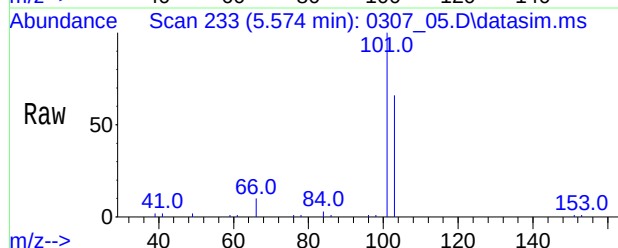
#75
4-Isopropyltoluene
Conc: 8\$ 0.179 ppbv
RT: 12.984 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

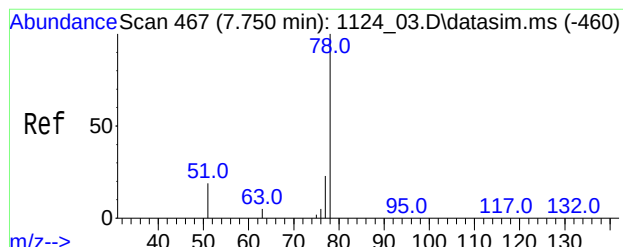
Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.3	21.0	31.4
91	0.0	20.6	30.8#



#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.244 ppbv
RT: 5.574 min Scan# 233
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

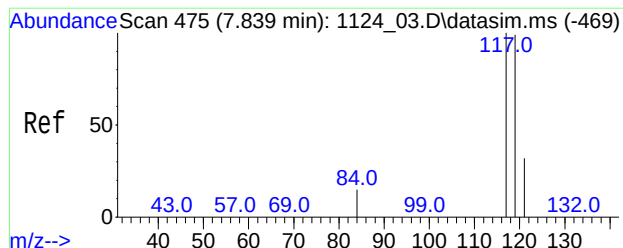
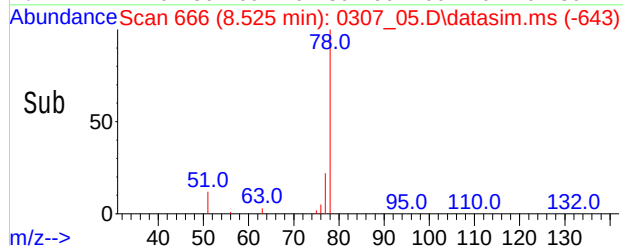
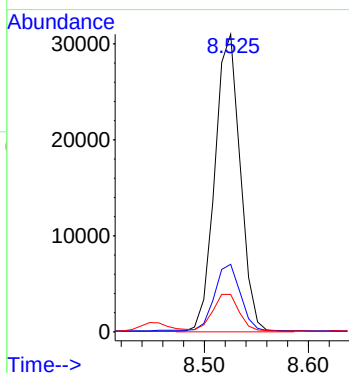
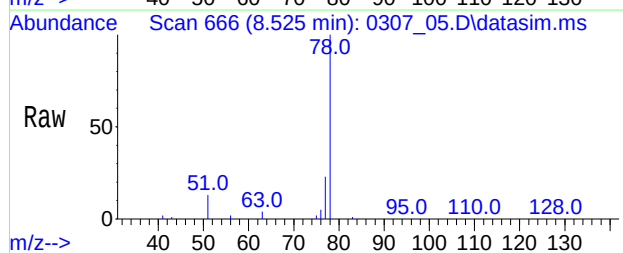
Tgt Ion	Ratio	Lower	Upper
101	100		
103	66.2	52.2	78.4
66	9.7	9.3	9.3#





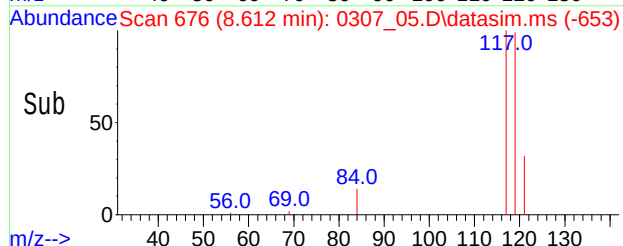
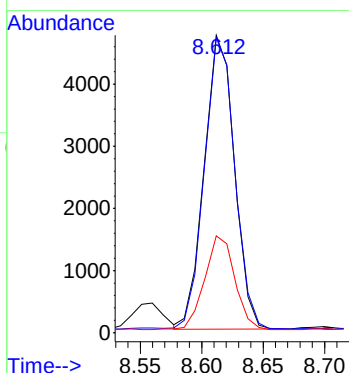
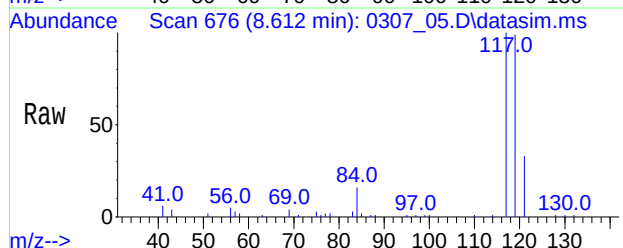
#88
Benzene(sim)
Conc: 8\$ 0.474 ppbv
RT: 8.522 min Scan# 666
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

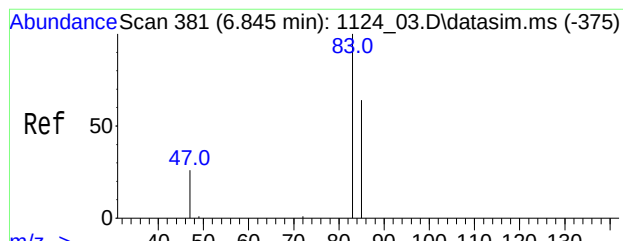
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.0	18.4	27.6
51	14.2	9.7	14.5



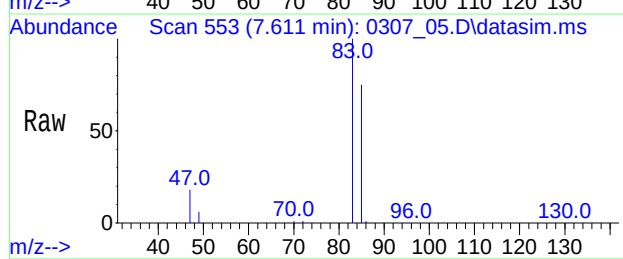
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.099 ppbv
RT: 8.612 min Scan# 676
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.3	77.7	116.5
121	32.0	25.1	37.7

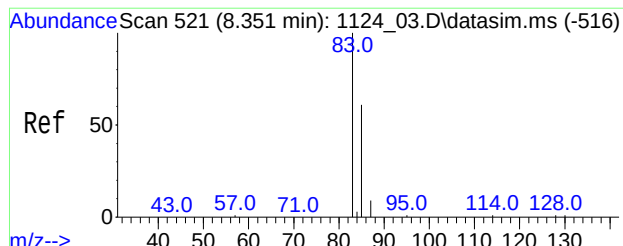
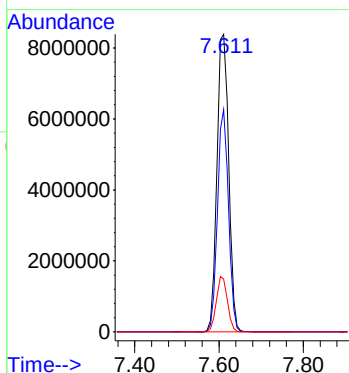
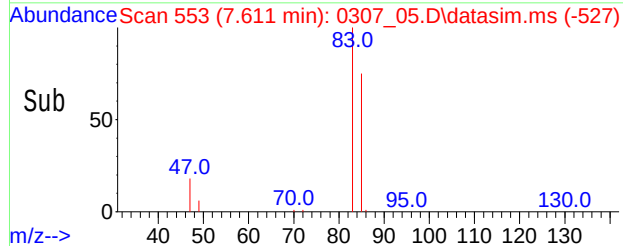




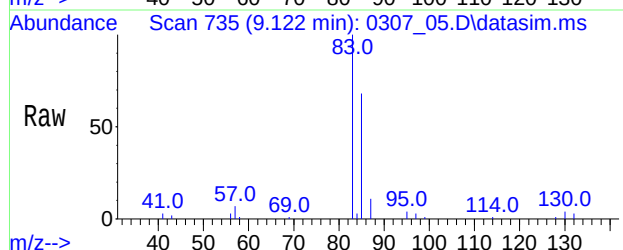
#95
Chloroform(sim)
Conc: 8\$ 209.607 ppbv
RT: 7.611 min Scan# 553
Delta R.T. 0.008 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm



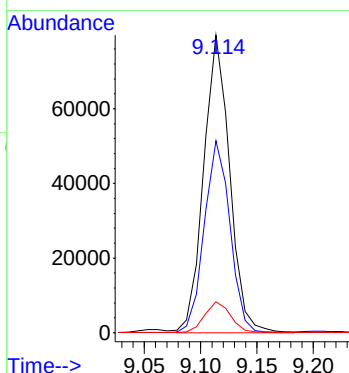
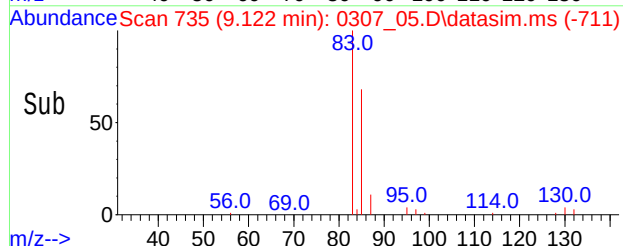
Tgt Ion: 83 Resp: 16335642
Ion Ratio Lower Upper
83 100
85 69.8 52.6 78.8
47 17.5 12.6 18.8

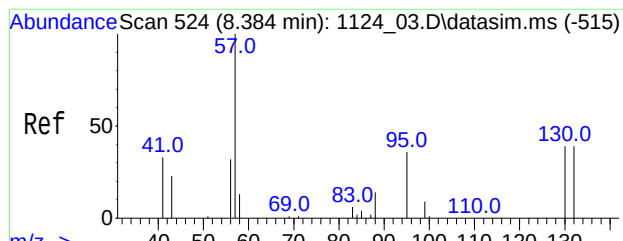


#98
Bromodichloromethane(sim)
Conc: 8\$ 1.670 ppbv
RT: 9.119 min Scan# 735
Delta R.T. 0.009 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm



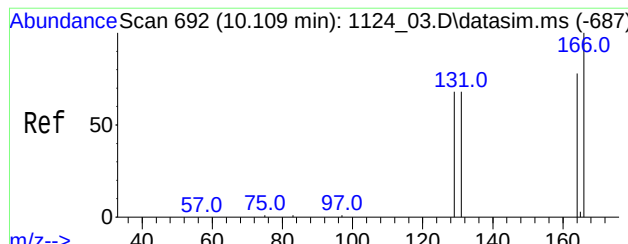
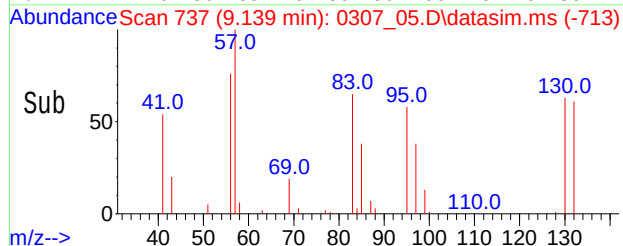
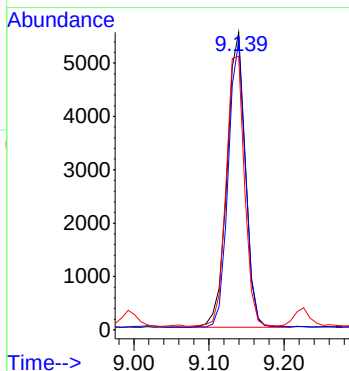
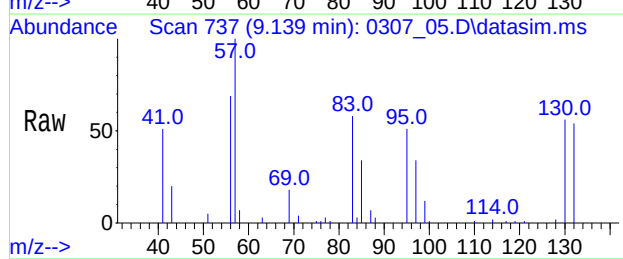
Tgt Ion: 83 Resp: 126300
Ion Ratio Lower Upper
83 100
85 63.3 44.1 84.1
87 10.3 0.0 33.0





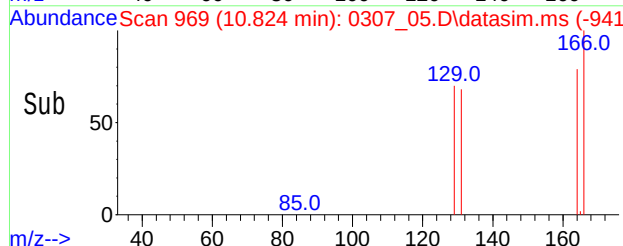
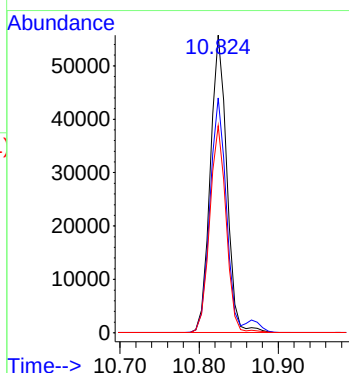
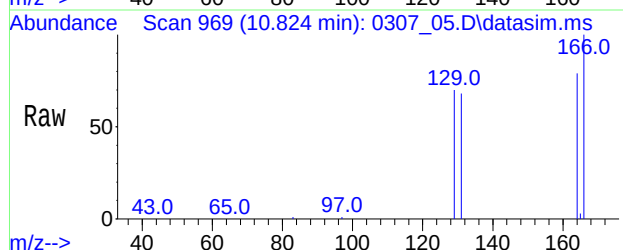
#99
Trichloroethene(sim)
Conc: 8\$ 0.161 ppbv
RT: 9.139 min Scan# 737
Delta R.T. 0.009 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

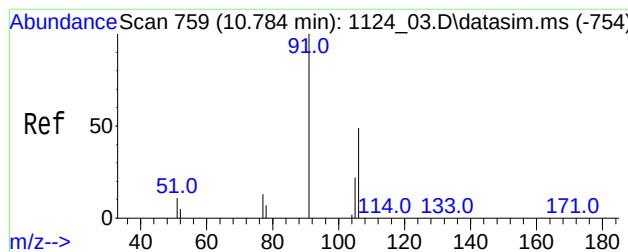
Tgt Ion	Ratio	Lower	Upper
130	100		
132	91.3	77.0	115.6
95	91.4	71.4	107.2



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.932 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

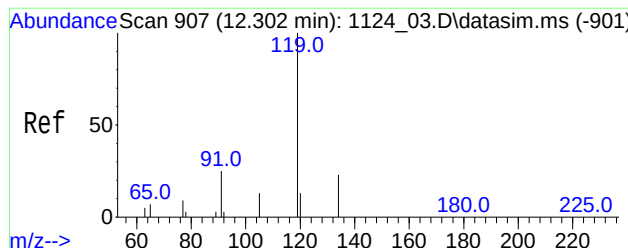
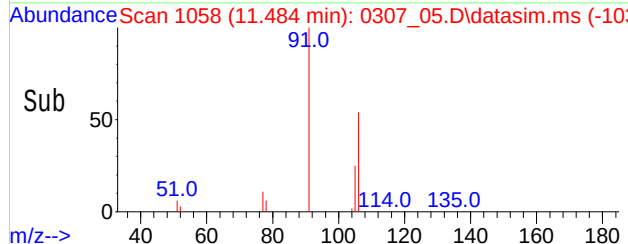
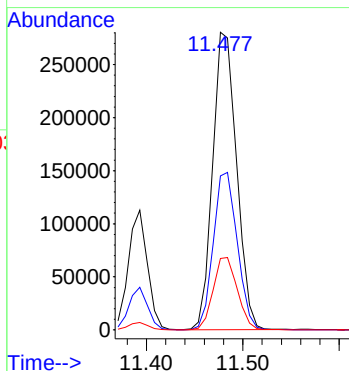
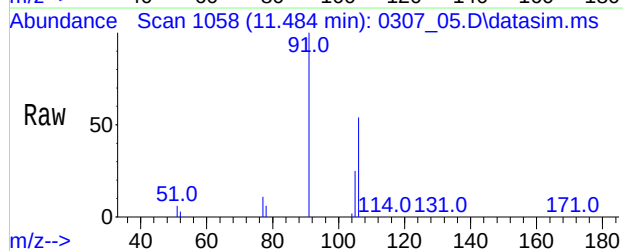
Tgt Ion	Ratio	Lower	Upper
166	100		
164	78.4	57.9	97.9
129	69.0	50.0	90.0





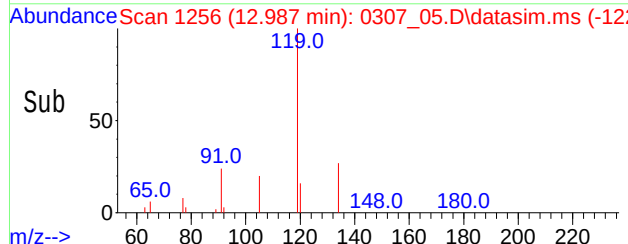
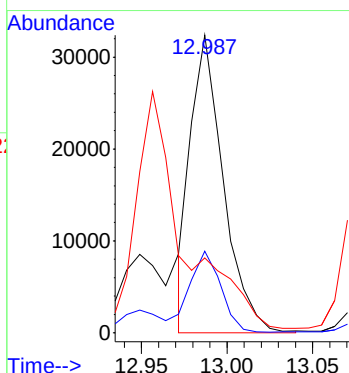
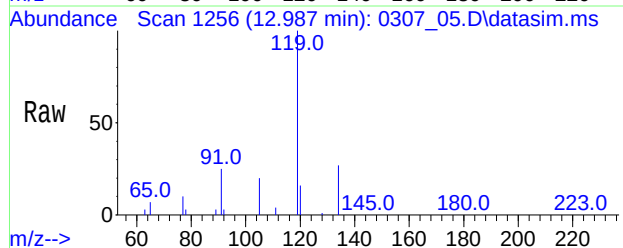
#108
m,p-Xylene(sim)
Conc: 8\$ 3.384 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	53.8	48.5	59.3
105	24.7	20.2	30.2



#116
4-Isopropyltoluene(sim)
Conc: 8\$ 0.177 ppbv
RT: 12.984 min Scan# 1256
Delta R.T. 0.000 min
Lab File: 0307_05.D
Acq: 7 Mar 2023 1:42 pm

Tgt Ion	Ratio	Lower	Upper
119	100		
134	23.3	21.0	31.4
91	0.0	20.6	30.8#



CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

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.

Data Path : H:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_08.D
 Acq On : 7 Mar 2023 3:40 pm
 Operator :
 Client ID : CN53534 QC 10X
 Lab ID : CN53534 QC 10X
 ALS Vial : 38 Sample Multiplier: 1

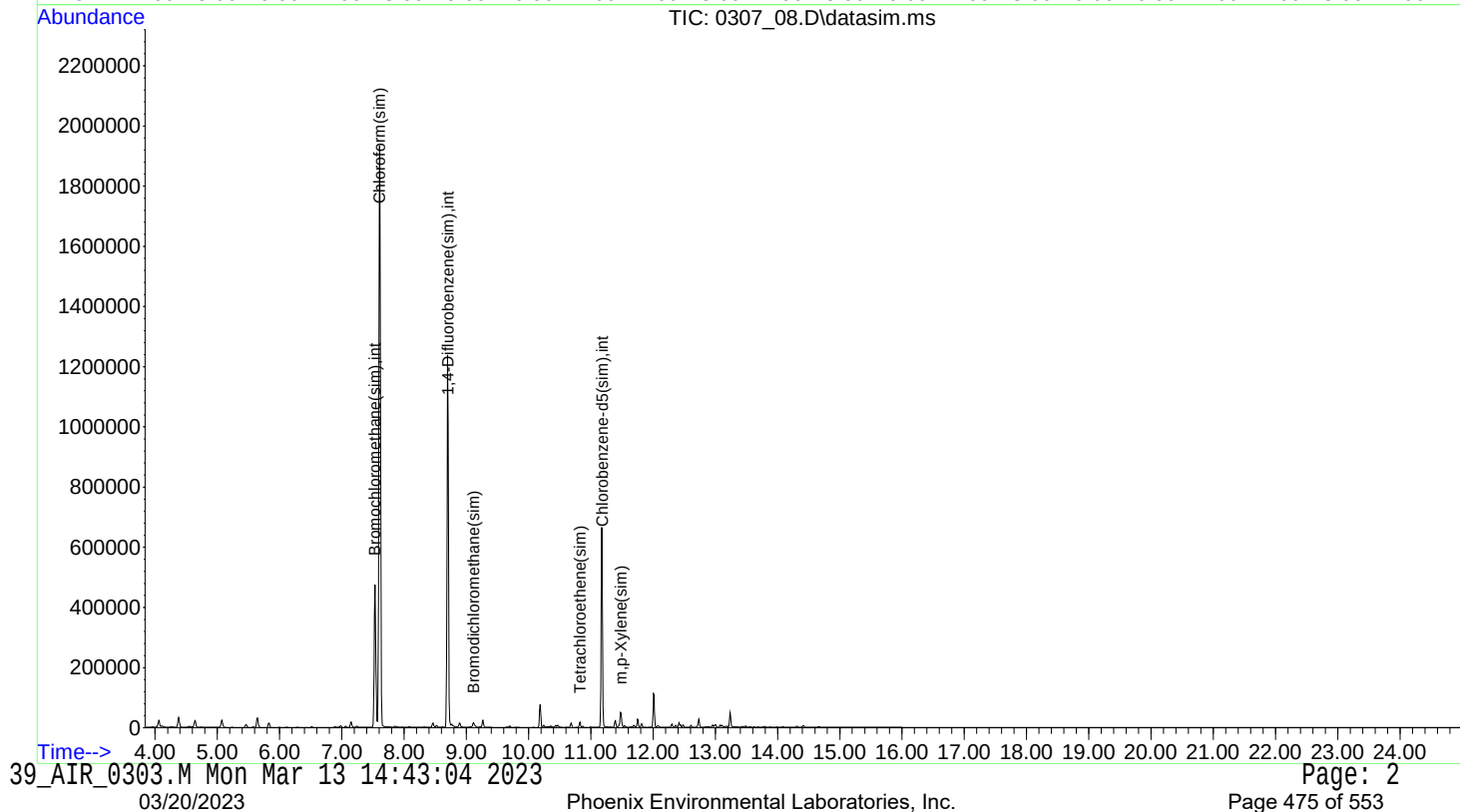
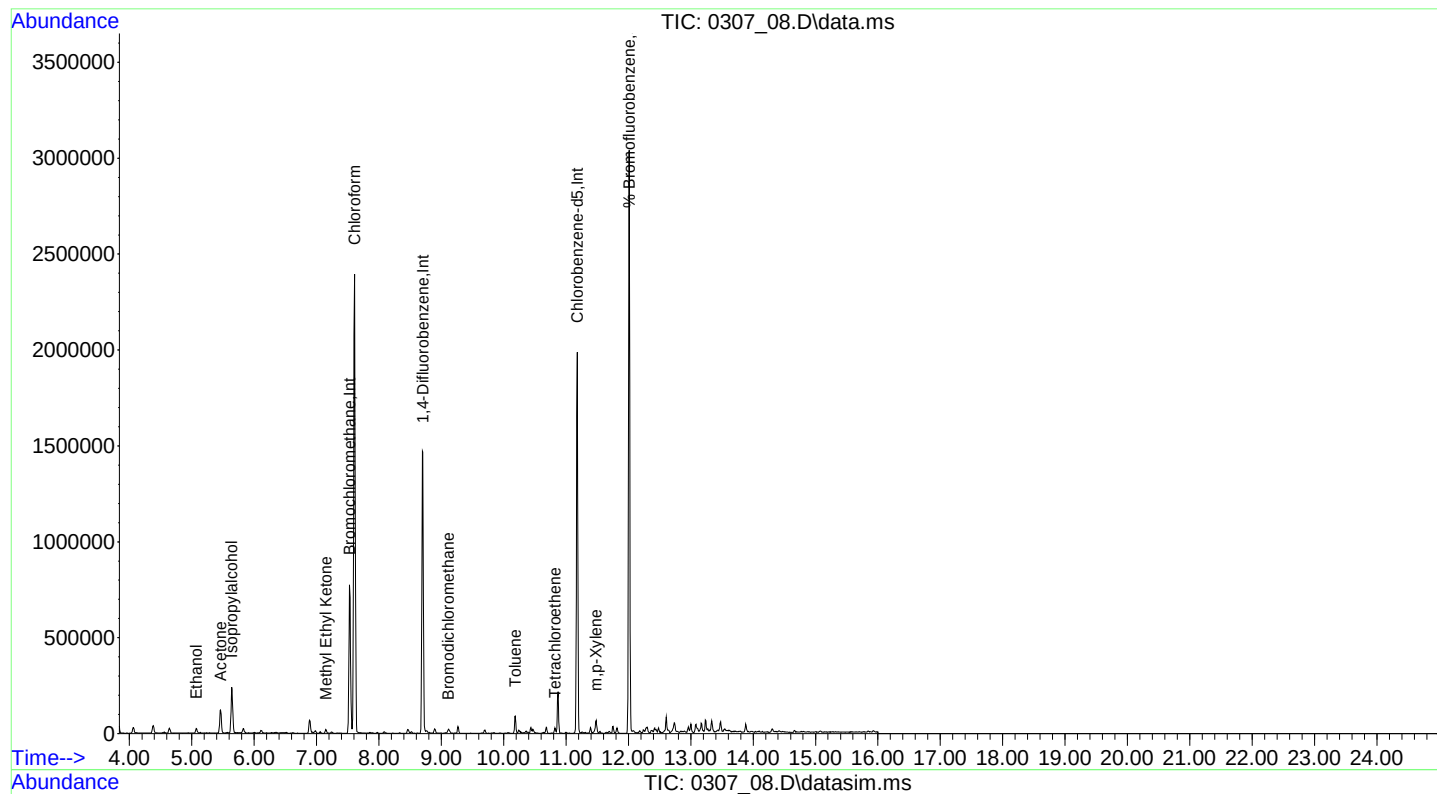
Quant Time: Mar 08 09:26:05 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

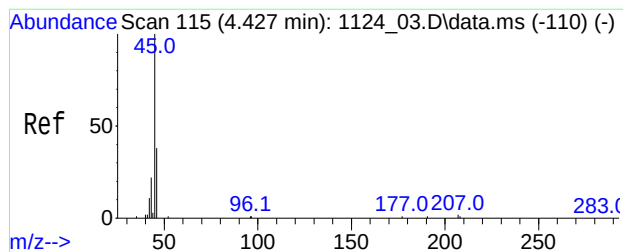
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	338942	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.704	114	1247028	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	516933	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	325430	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.704	114	1247028	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	516933	10.000	ng	# 0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	776076	10.149	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.50%
Target Compounds						
						Qvalue
11) Ethanol	5.071	45	23233	3.879	ppbv	98
12) Acetone	5.461	43	121140	3.942	ppbv	99
14) Isopropylalcohol	5.639	45	275419	7.649	ppbv	96
26) Methyl Ethyl Ketone	7.148	43	19449	0.464	ppbv	98
29) Chloroform	7.608	83	1788707	26.790	ppbv	100
39) Bromodichloromethane	9.111	83	12281	0.180	ppbv	98
49) Toluene	10.181	91	61569	0.476	ppbv	99
53) Tetrachloroethene	10.821	166	8989	0.107	ppbv	87
58) m,p-Xylene	11.481	91	38100	0.315	ppbv	97
95) Chloroform(sim)	7.603	83	1839788	23.568	ppbv	100
98) Bromodichloromethane(sim)	9.111	83	12281	0.166	ppbv	99
105) Tetrachloroethene(sim)	10.824	166	7806	0.092	ppbv	99
108) m,p-Xylene(sim)	11.481	91	38100	0.300	ppbv	97

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

Data Path : H:\AIR2023\CHEM39\03MAR\06\
Data File : 0307_08.D
Acq On : 7 Mar 2023 3:40 pm
Operator :
Client ID : CN53534 QC 10X
Lab ID : CN53534 QC 10X
ALS Vial : 38 Sample Multiplier: 1

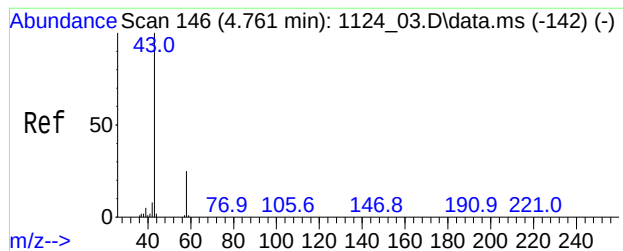
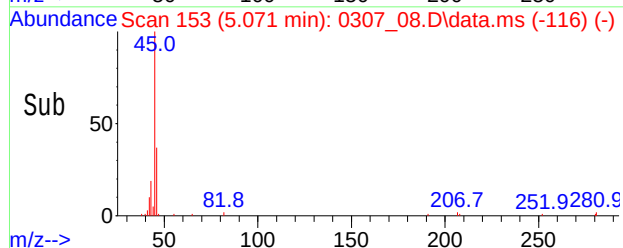
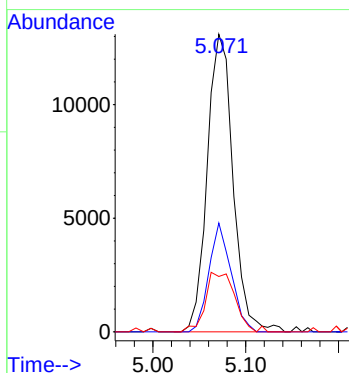
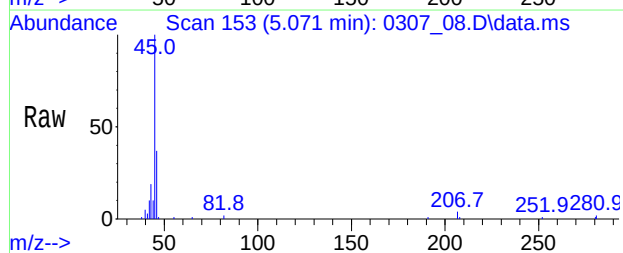
Quant Time: Mar 08 09:26:05 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration





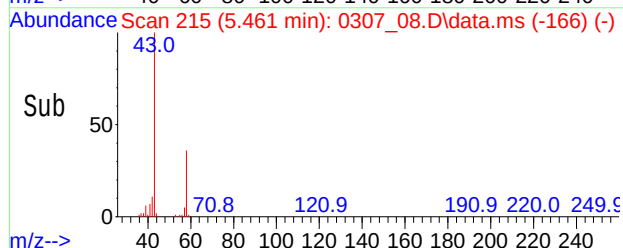
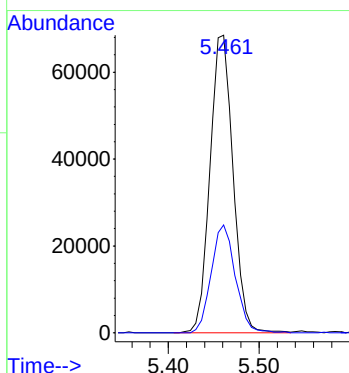
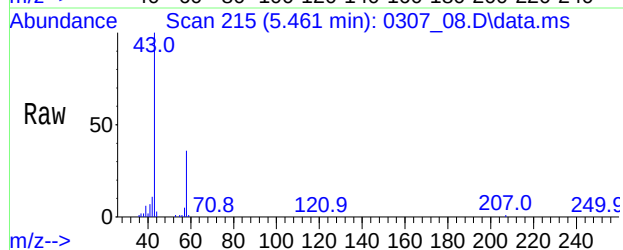
#11
Ethanol
Conc: 8\$ 3.879 ppbv
RT: 5.071 min Scan# 153
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

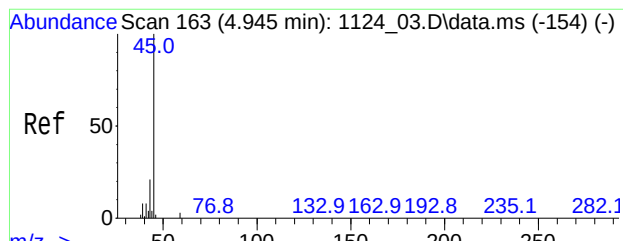
Tgt Ion	Ratio	Lower	Upper
45	100		
46	33.5	27.0	40.4
43	23.7	17.0	25.4



#12
Acetone
Conc: 8\$ 3.942 ppbv
RT: 5.461 min Scan# 215
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

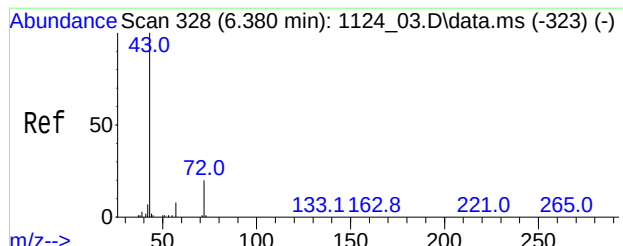
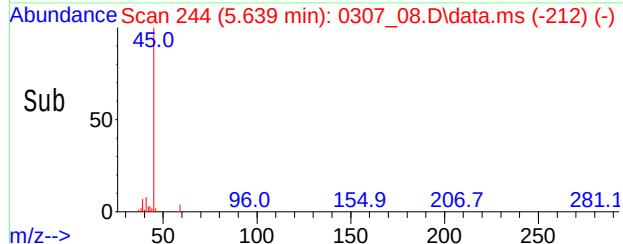
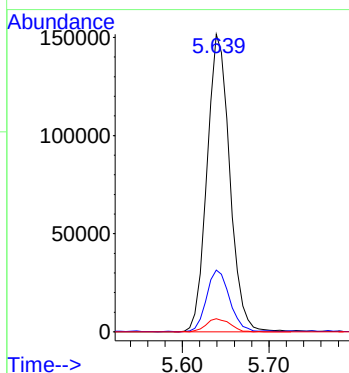
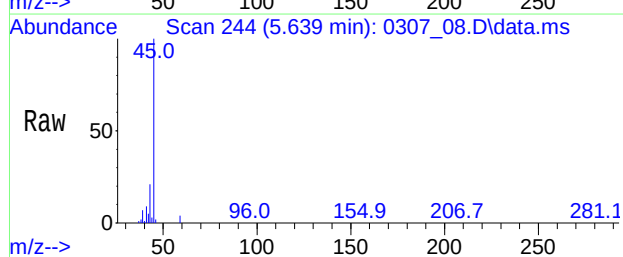
Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.9	30.8	46.2





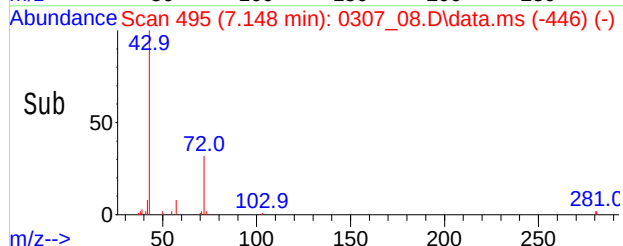
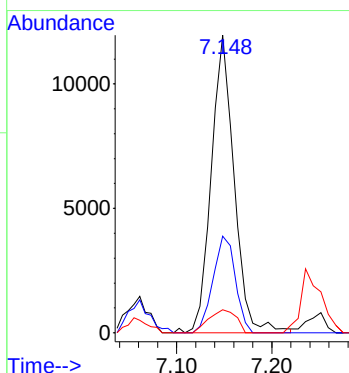
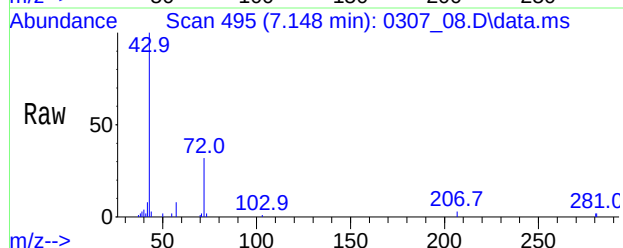
#14
Isopropylalcohol
Conc: 8\$ 7.649 ppbv
RT: 5.639 min Scan# 244
Delta R.T. -0.006 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

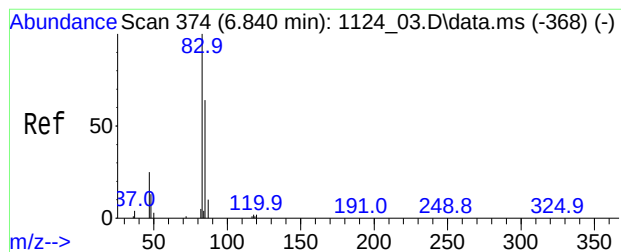
Tgt Ion: 45 Resp: 275419
Ion Ratio Lower Upper
45 100
43 21.3 15.4 23.0
59 4.7 3.9 5.9



#26
Methyl Ethyl Ketone
Conc: 8\$ 0.464 ppbv
RT: 7.148 min Scan# 495
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

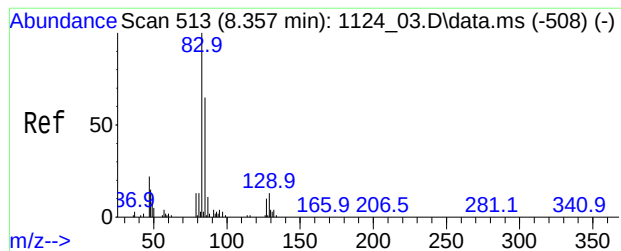
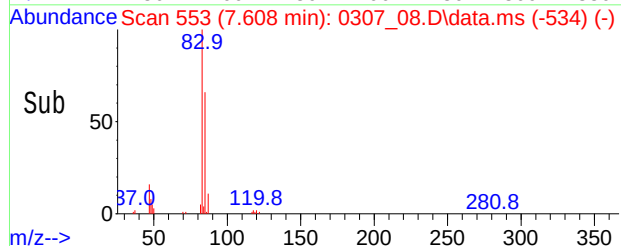
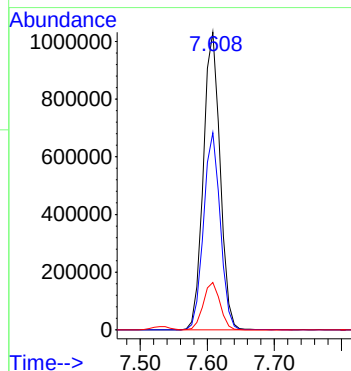
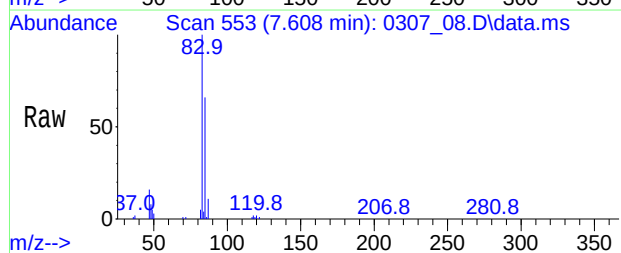
Tgt Ion: 43 Resp: 19449
Ion Ratio Lower Upper
43 100
72 32.6 27.2 40.8
57 9.5 7.8 11.8





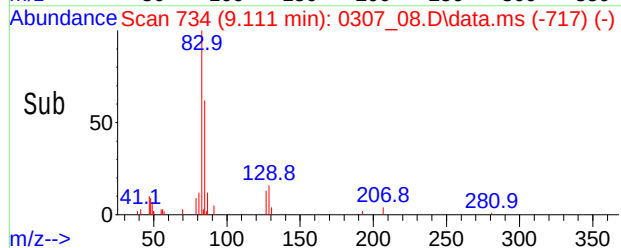
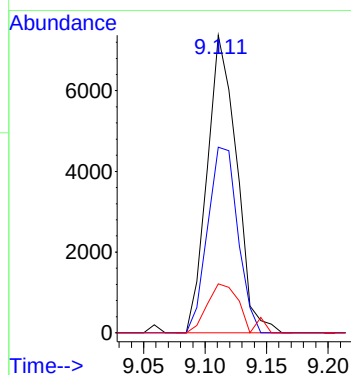
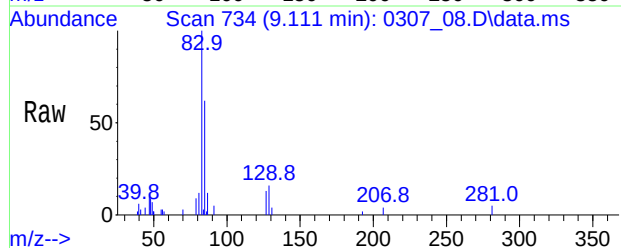
#29
Chloroform
Conc: 8\$ 26.790 ppbv
RT: 7.608 min Scan# 553
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

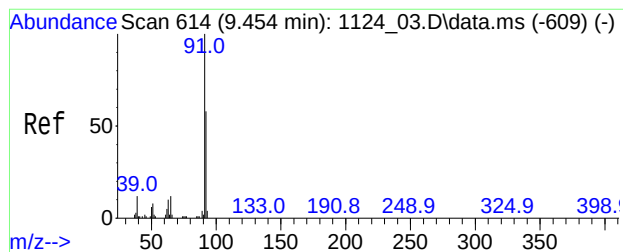
Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	46.1	86.1
47	16.1	0.0	35.3



#39
Bromodichloromethane
Conc: 8\$ 0.180 ppbv
RT: 9.111 min Scan# 734
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

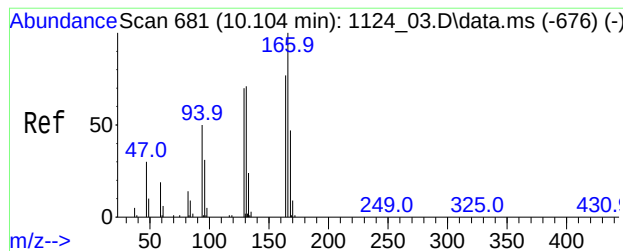
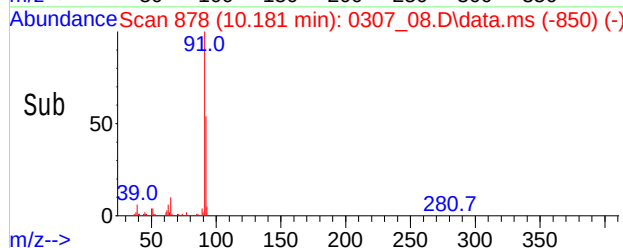
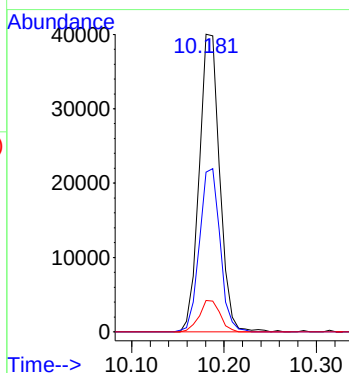
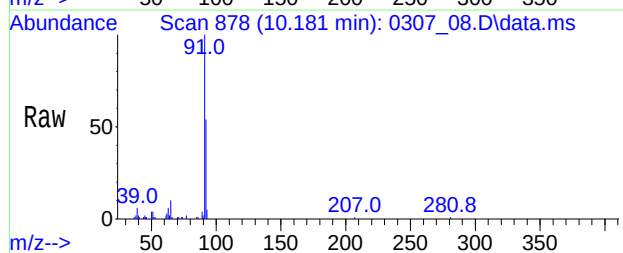
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	44.1	84.1
129	18.6	0.0	35.7





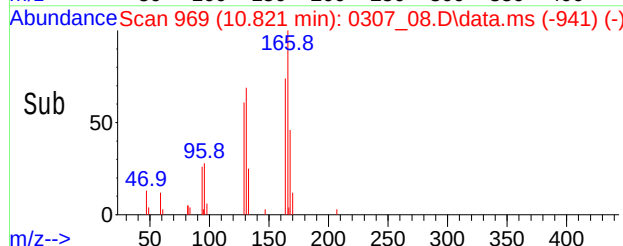
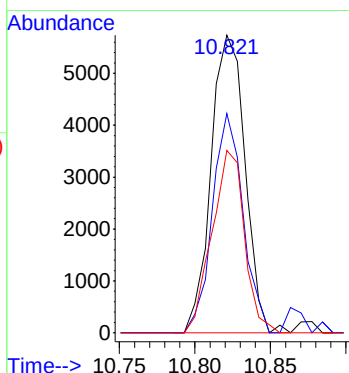
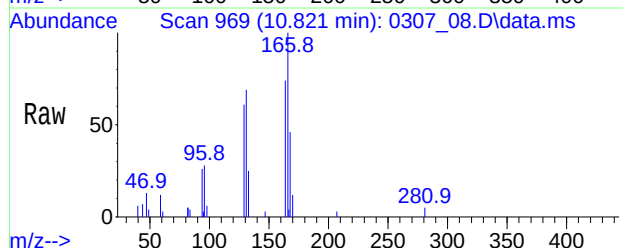
#49
Toluene
Conc: 8\$ 0.476 ppbv
RT: 10.181 min Scan# 878
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

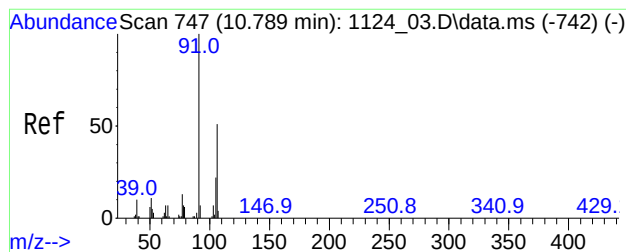
Tgt Ion: 91 Resp: 61569
Ion Ratio Lower Upper
91 100
92 55.0 44.6 66.8
65 10.7 7.2 10.8



#53
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 10.821 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

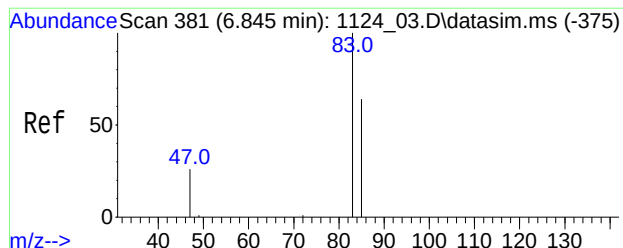
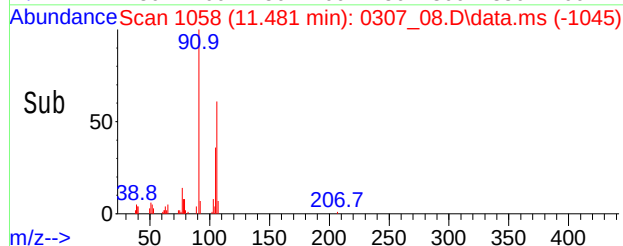
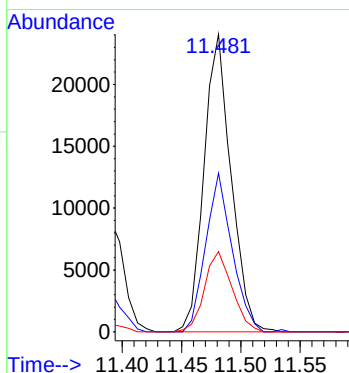
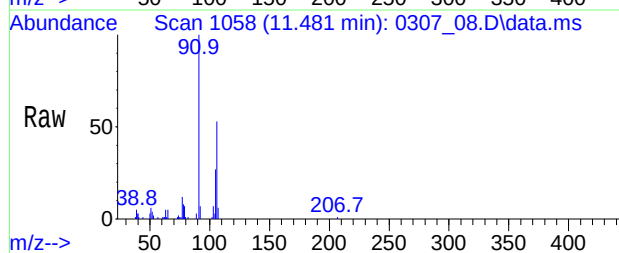
Tgt Ion: 166 Resp: 8989
Ion Ratio Lower Upper
166 100
164 66.6 62.3 93.5
129 58.4 54.7 82.1





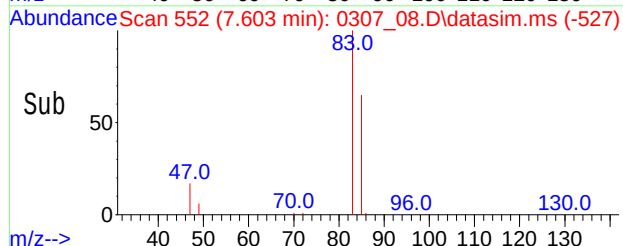
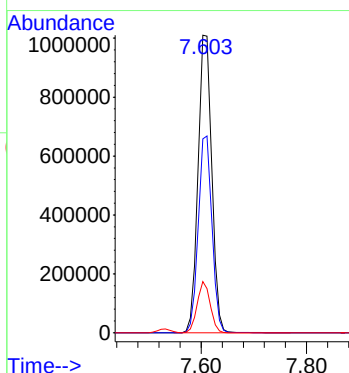
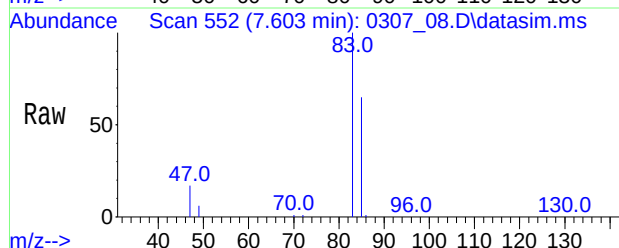
#58
m,p-Xylene
Conc: 8\$ 0.315 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

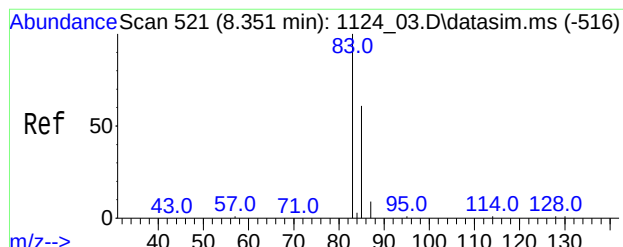
Tgt Ion: 91 Resp: 38100
Ion Ratio Lower Upper
91 100
106 52.1 43.1 64.7
105 27.6 20.2 30.2



#95
Chloroform(sim)
Conc: 8\$ 23.568 ppbv
RT: 7.603 min Scan# 552
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

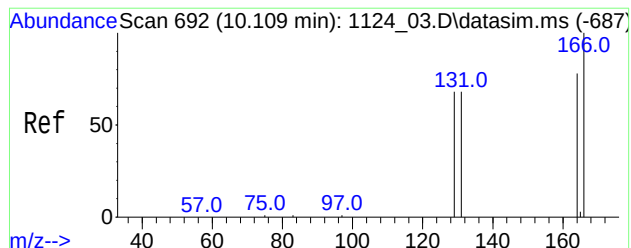
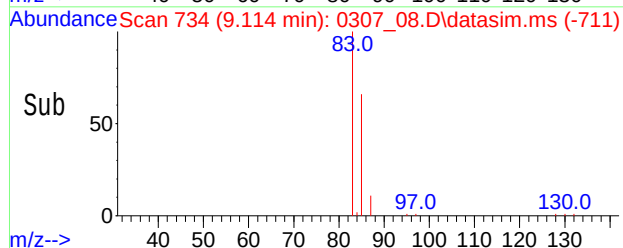
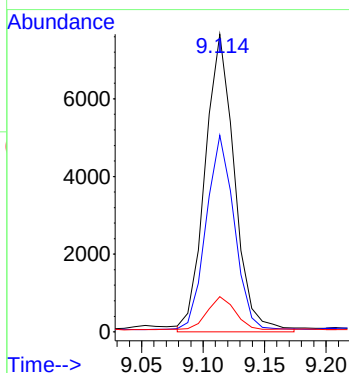
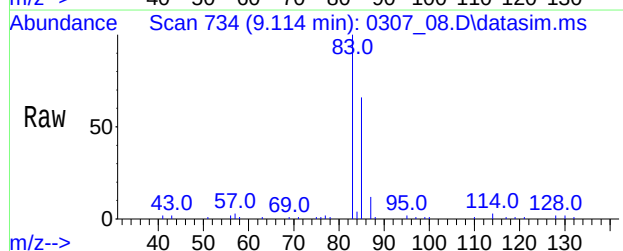
Tgt Ion: 83 Resp: 1839788
Ion Ratio Lower Upper
83 100
85 65.8 52.6 78.8
47 16.4 12.6 18.8





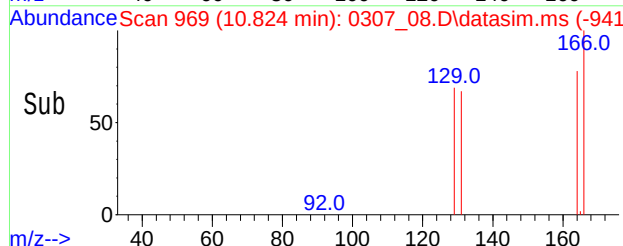
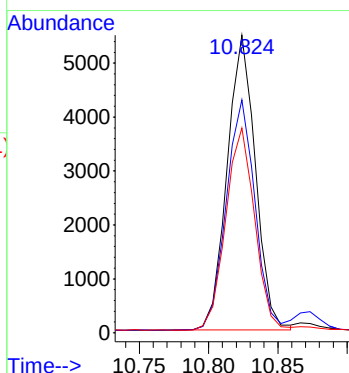
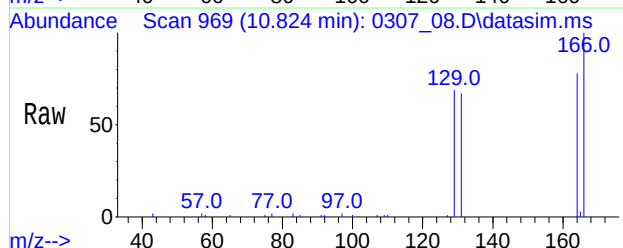
#98
Bromodichloromethane(sim)
Conc: 8\$ 0.166 ppbv
RT: 9.111 min Scan# 734
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

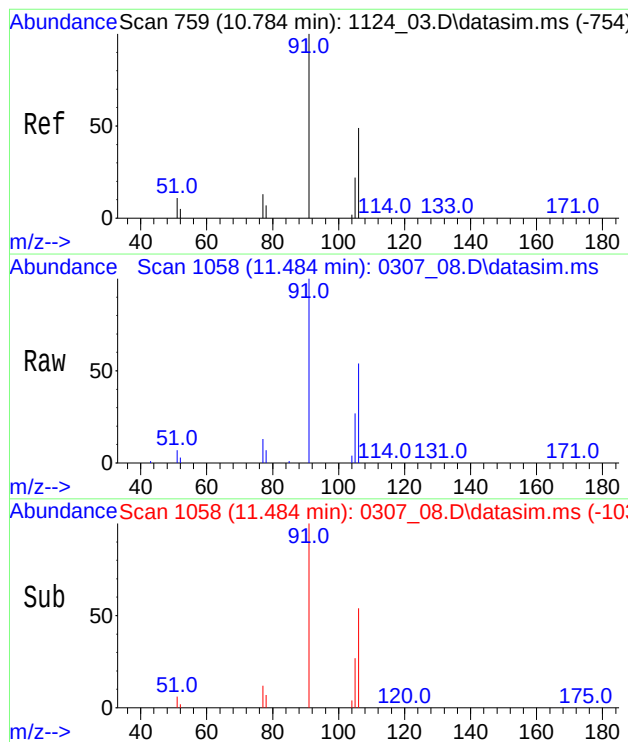
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	44.1	84.1
87	10.7	0.0	33.0



#105
Tetrachloroethene(sim)
Conc: 8\$ 0.092 ppbv
RT: 10.824 min Scan# 969
Delta R.T. 0.000 min
Lab File: 0307_08.D
Acq: 7 Mar 2023 3:40 pm

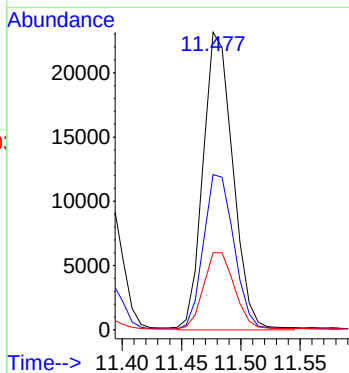
Tgt Ion	Ratio	Lower	Upper
166	100		
164	79.3	57.9	97.9
129	71.1	50.0	90.0





#108
 m,p-Xylene(sim)
 Conc: 8\$ 0.300 ppbv
 RT: 11.481 min Scan# 1058
 Delta R.T. 0.000 min
 Lab File: 0307_08.D
 Acq: 7 Mar 2023 3:40 pm

Tgt Ion:	91	Resp:	38100
Ion Ratio	Lower	Upper	
91	100		
106	52.3	48.5	59.3
105	27.6	20.2	30.2



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CN53534 BL
Canister:	BL	Lab File ID:	0307_04.D
Instrument:	CHEM39	Column:	TX-1 ; #10157
Purge Volume	200	(cc)	03/06/23
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

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN53534 BL

Canister: BL Lab File ID: 0307_04.D

Instrument: CHEM39 Column: TX-1 ; #10157 Date Received: 03/06/23

Purge Volume 200 (cc) Date Analyzed: 03/07/23

Matrix: AIR Dilution Factor: 1

CN53534 BLANK

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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_04.D
 Acq On : 7 Mar 2023 1:02 pm
 Operator :
 Client ID : CN53534 BLANK
 Lab ID : CN53534 BLANK
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Mar 08 09:25:58 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.529	130	338723	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.703	114	1239974	10.000	ng	0.00
54) Chlorobenzene-d5	11.177	82	512165	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	322695	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.703	114	1239974	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.177	82	512165	10.000	ng	# 0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.011	95	772244	10.193	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.90%

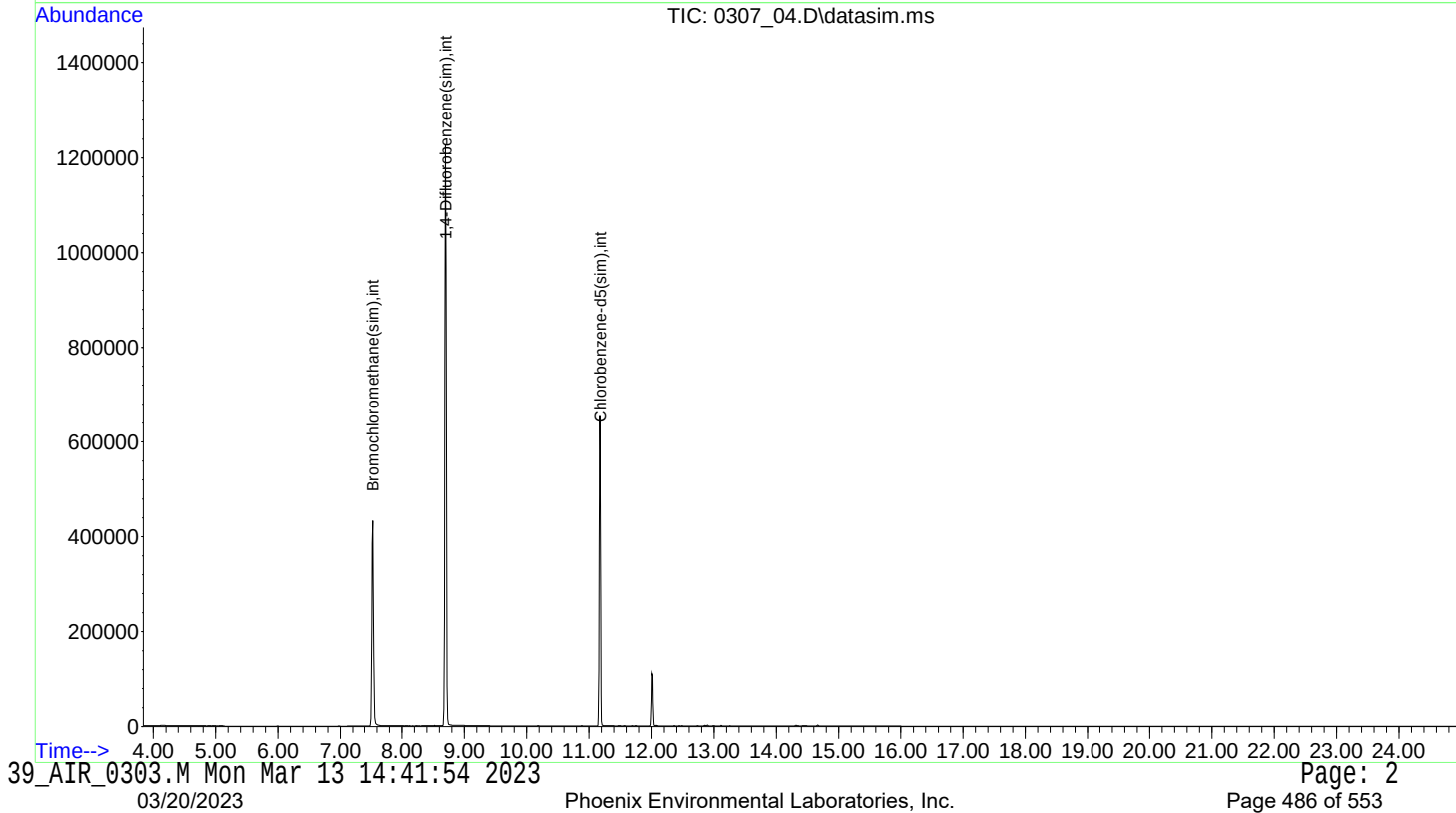
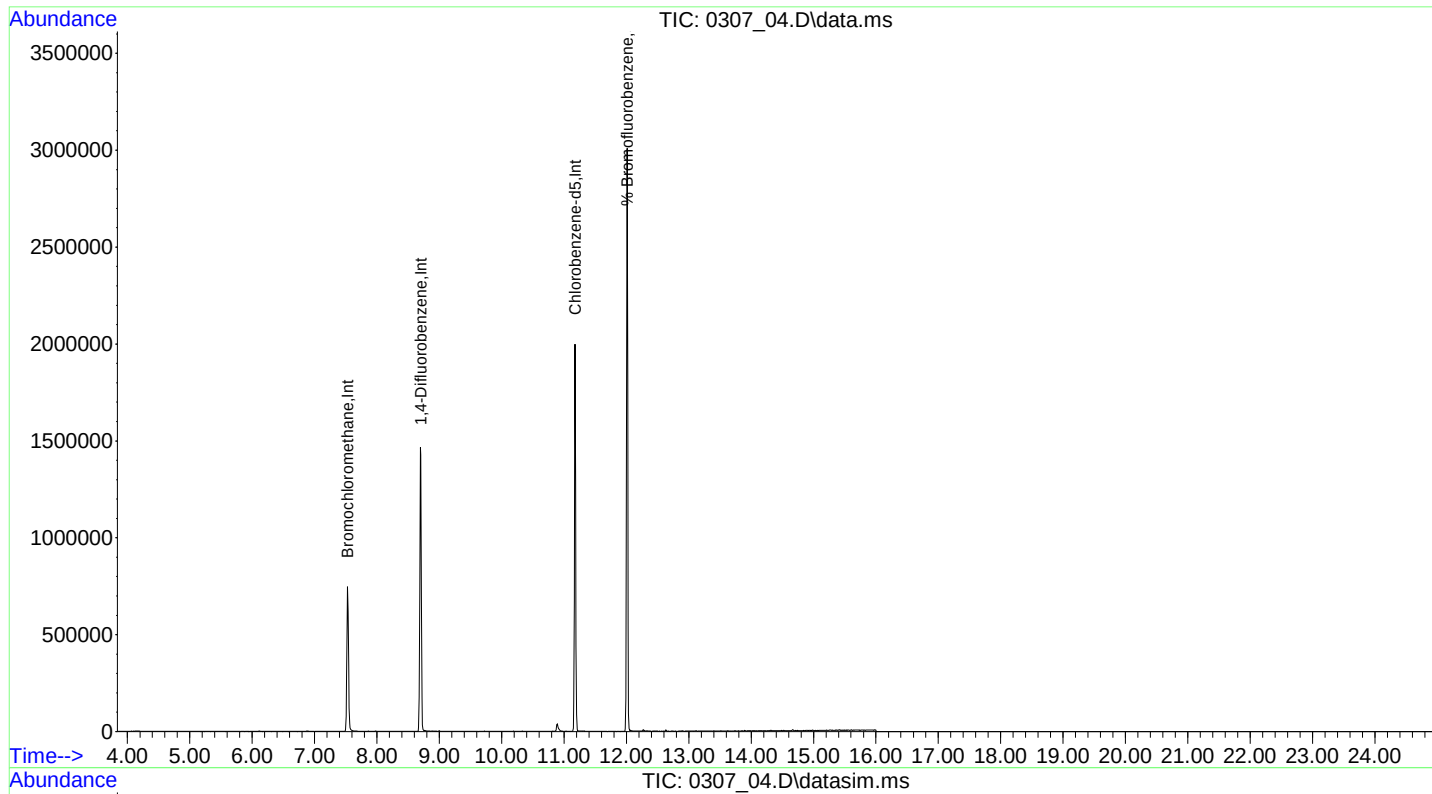
Target Compounds	Qvalue

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

(QT Reviewed)

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Data Path : H:\AIR2023\CHEM39\03MAR\06\  
Data File : 0307_04.D  
Acq On : 7 Mar 2023 1:02 pm  
Operator :  
Client ID : CN53534 BLANK  
Lab ID : CN53534 BLANK  
ALS Vial : 34 Sample Multiplier: 1
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Quant Time: Mar 08 09:25:58 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 15:50:27 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	53534 dup
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53534 DUP</u>	
Canister:	<u>12863</u>	Lab File ID:	<u>0307_06.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>	Date Received:
				<u>03/06/23</u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>03/07/23</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	0.490		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	33.5	S	0.531	0.531	r
67-64-1	Acetone	39.7	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.250		0.178	0.178	r
67-63-0	Isopropylalcohol	71.6	S	0.407	0.407	r
107-13-1	Acrylonitrile	0.461	U	0.461	0.461	r
75-09-2	Methylene Chloride	1.37	S	0.863	0.863	r
75-15-0	Carbon Disulfide	0.622		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	4.47		0.339	0.339	r
110-54-3	Hexane	2.88	S	0.284	0.284	r
67-66-3	Chloroform	246		0.205	0.205	r
141-78-6	Ethyl acetate	1.74		0.278	0.278	r
109-99-9	Tetrahydrofuran	0.594		0.339	0.339	r
71-43-2	Benzene	0.506		0.313	0.313	r
110-82-7	Cyclohexane	0.291	U	0.291	0.291	r
75-27-4	Bromodichloromethane	1.82		0.149	0.149	r
142-82-5	Heptane	2.48		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	5.31		0.266	0.266	r
591-78-6	2-Hexanone(MBK)	0.334		0.244	0.244	r
127-18-4	Tetrachloroethene	1.02		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	0.879		0.230	0.230	r
179601-23-1	m,p-Xylene	3.56		0.230	0.230	r
100-42-5	Styrene	0.576		0.235	0.235	r
95-47-6	o-Xylene	1.54		0.230	0.230	r
98-82-8	Isopropylbenzene	0.204	U	0.204	0.204	r
622-96-8	4-Ethyltoluene	0.912		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	0.327		0.204	0.204	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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN53534 DUP</u>
Canister:	<u>12863</u>	Lab File ID:	<u>0307_06.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u>TX-1 ; #10157</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/06/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/07/23</u>
		Dilution Factor:	<u>1</u>

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
95-63-6	1,2,4-Trimethylbenzene	1.20		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
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
79-01-6	Trichloroethene(sim)	0.154		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
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)	0.185		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:\AIR2023\CHEM39\03MAR\06\
 Data File : 0307_06.D
 Acq On : 7 Mar 2023 2:22 pm
 Operator :
 Client ID : 53534 dup
 Lab ID : CN53534 DUP
 ALS Vial : 36 Sample Multiplier: 1

Quant Time: Mar 08 11:36:05 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 15:50:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.529	130	334166	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1266596	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	538436	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	321806	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1268417	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	538436	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	806785	10.130	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	101.30%

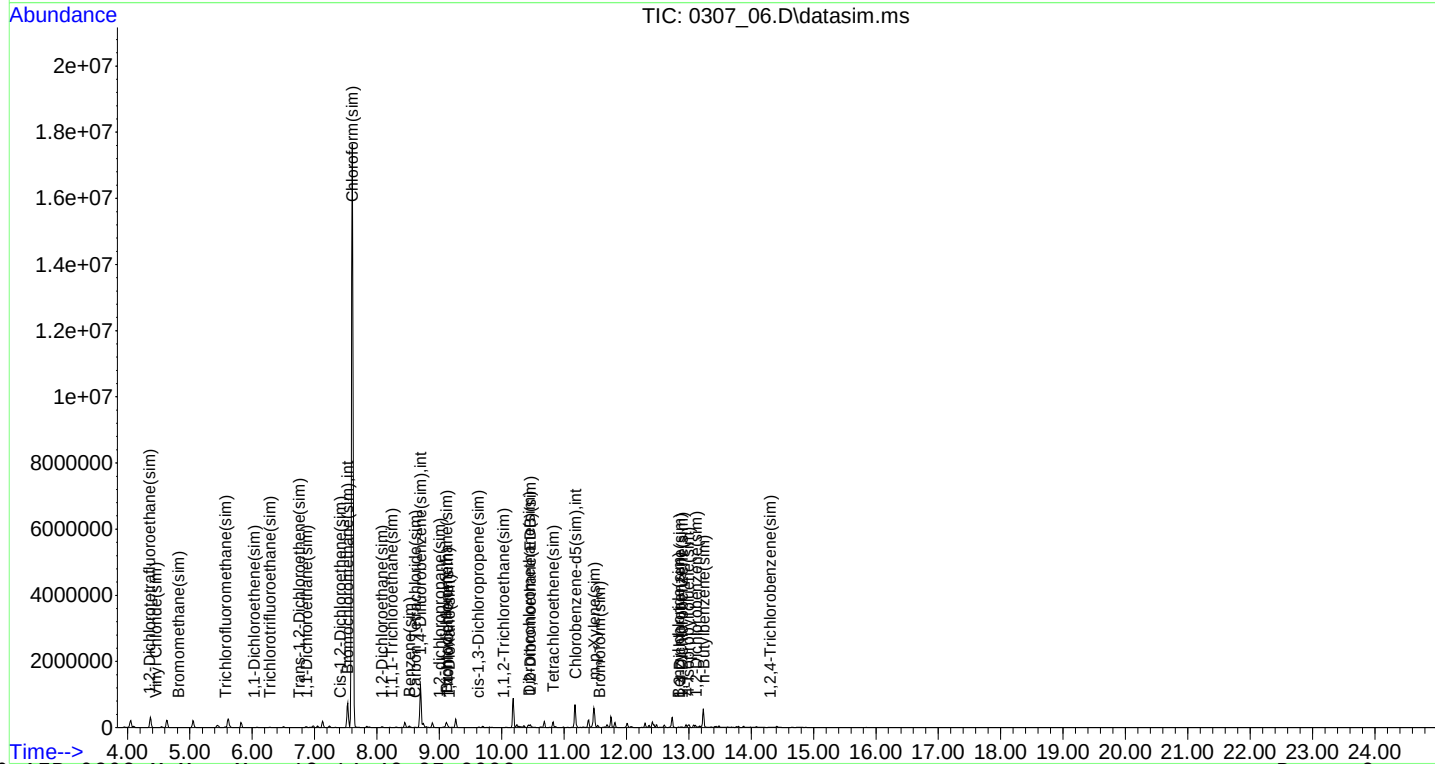
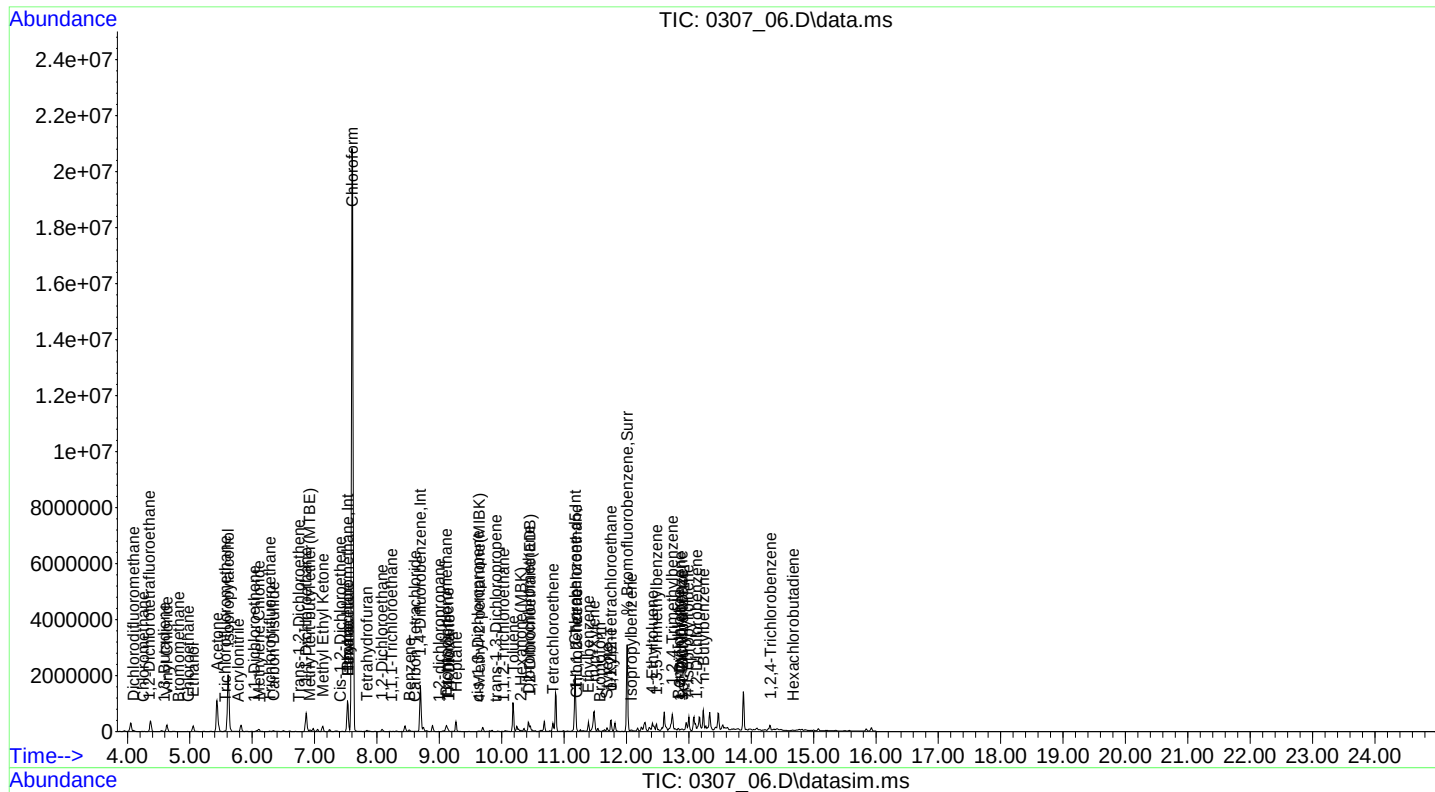
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Dichlorodifluoromethane	4.097	85	38621	0.490	ppbv	98
11) Ethanol	5.055	45	197768	33.488	ppbv	98
12) Acetone	5.436	43	1202273	39.686	ppbv	98
13) Trichlorofluoromethane	5.565	101	20964	0.250	ppbv	97
14) Isopropylalcohol	5.614	45	2541778	71.598	ppbv	98
17) Methylene Chloride	6.108	49	33417	1.367	ppbv	98
20) Carbon Disulfide	6.341	76	50521	0.622	ppbv	99
26) Methyl Ethyl Ketone	7.132	43	184710	4.470	ppbv	100
28) Hexane	7.537	57	109513	2.877	ppbv	90
29) Chloroform	7.600	83	16164201	245.556	ppbv	97
30) Ethyl acetate	7.537	61	20136	1.737	ppbv	87
31) Tetrahydrofuran	7.838	42	14206	0.594	ppbv#	70
34) Benzene	8.522	78	49356	0.507	ppbv	98
35) Carbon Tetrachloride	8.609	117	7489	0.097	ppbv	90
39) Bromodichloromethane	9.110	83	126480	1.822	ppbv	98
40) Trichloroethene	9.136	130	9051	0.161	ppbv	97
44) Heptane	9.266	43	102279	2.483	ppbv	96
49) Toluene	10.180	91	698004	5.310	ppbv	100
51) 2-Hexanone(MBK)	10.307	43	16516	0.334	ppbv#	96
53) Tetrachloroethene	10.821	166	87191	1.018	ppbv	98
57) Ethylbenzene	11.390	91	142845	0.879	ppbv	99
58) m, p-Xylene	11.481	91	449399	3.563	ppbv	99
60) Styrene	11.686	104	59363	0.576	ppbv	98
62) o-Xylene	11.754	91	201001	1.544	ppbv	98
67) 4-Ethyltoluene	12.414	105	188071	0.912	ppbv	95
68) 1,3,5-Trimethylbenzene	12.483	105	52124	0.326	ppbv	95
69) 1,2,4-Trimethylbenzene	12.733	105	203254	1.198	ppbv	88
75) 4-Isopropyltoluene	12.984	119	42767	0.184	ppbv#	71
85) Trichlorofluoromethane...	5.568	101	21491	0.238	ppbv#	100
88) Benzene(sim)	8.522	78	49356	0.477	ppbv	98
89) Carbon Tetrachloride(sim)	8.612	117	7565	0.094	ppbv	100
95) Chloroform(sim)	7.603	83	16205590	209.932	ppbv	95
98) Bromodichloromethane(sim)	9.110	83	126480	1.686	ppbv	97
99) Trichloroethene(sim)	9.131	130	8924	0.154	ppbv	97
105) Tetrachloroethene(sim)	10.824	166	80294	0.933	ppbv	99
108) m, p-Xylene(sim)	11.481	91	449641	3.395	ppbv	99
116) 4-Isopropyltoluene(sim)	12.984	119	43431	0.185	ppbv#	71

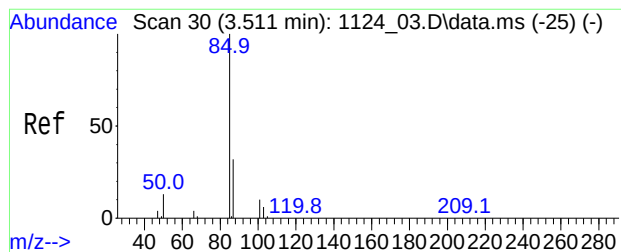
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

(QT Reviewed)

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Data File : 0307_06.D  
Acq On : 7 Mar 2023 2:22 pm  
Operator :  
Client ID : 53534 dup  
Lab ID : CN53534 DUP  
ALS Vial : 36 Sample Multiplier: 1
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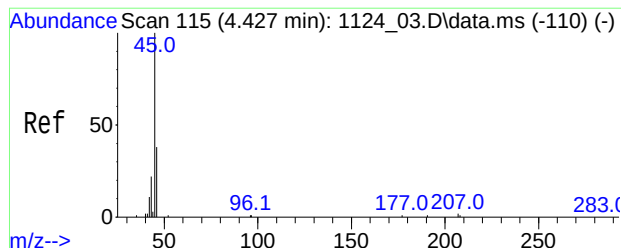
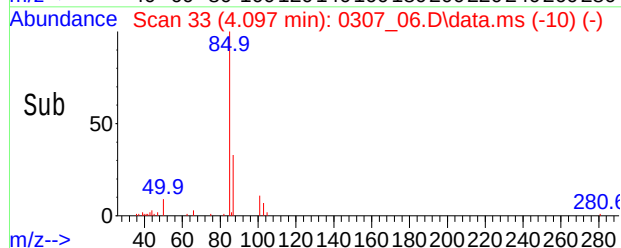
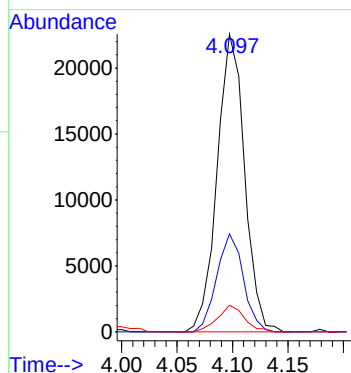
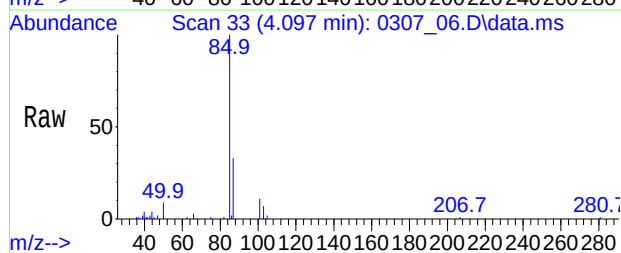
Quant Time: Mar 08 11:36:05 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0303.M
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Response via : Initial Calibration





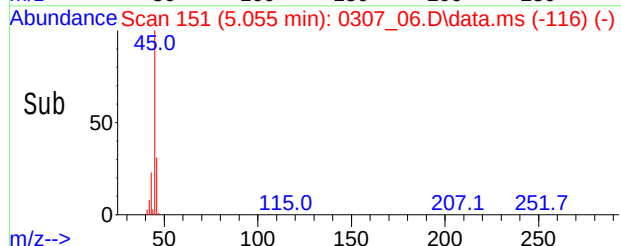
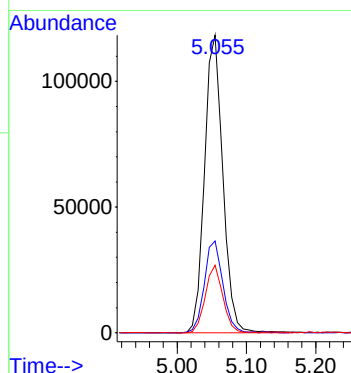
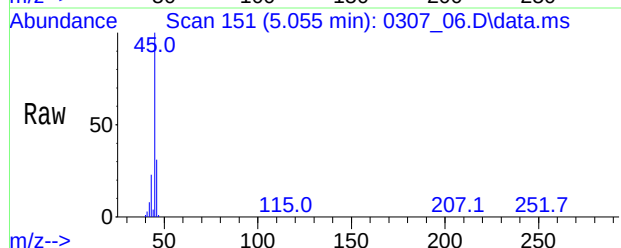
#3
 Dichlorodifluoromethane
 Conc: 8\$ 0.490 ppbv
 RT: 4.097 min Scan# 33
 Delta R.T. -0.016 min
 Lab File: 0307_06.D
 Acq: 7 Mar 2023 2:22 pm

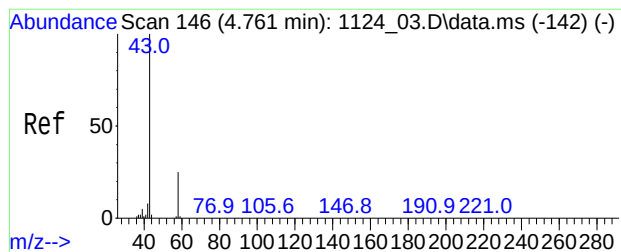
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.9	26.2	39.4
50	8.8	6.2	9.2



#11
 Ethanol
 Conc: 8\$ 33.488 ppbv
 RT: 5.055 min Scan# 151
 Delta R.T. -0.016 min
 Lab File: 0307_06.D
 Acq: 7 Mar 2023 2:22 pm

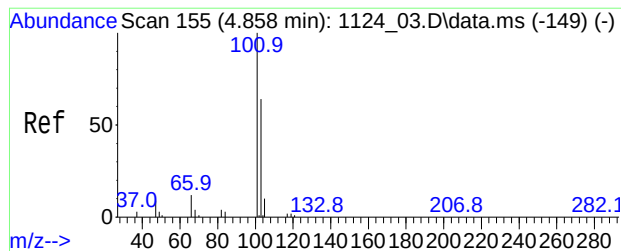
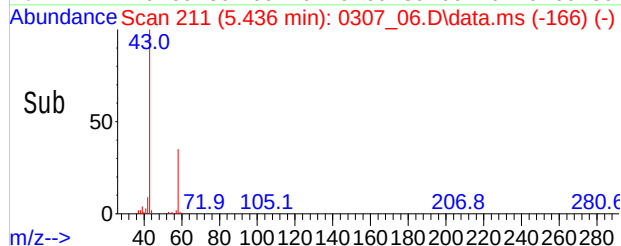
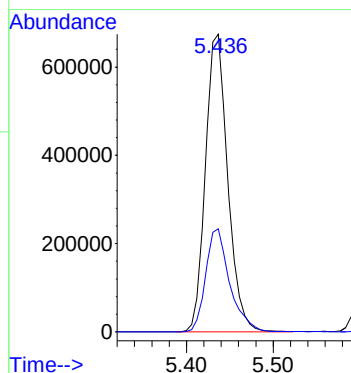
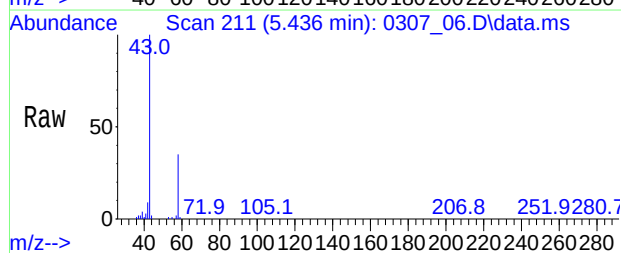
Tgt Ion	Ratio	Lower	Upper
45	100		
46	34.0	27.0	40.4
43	23.6	17.0	25.4





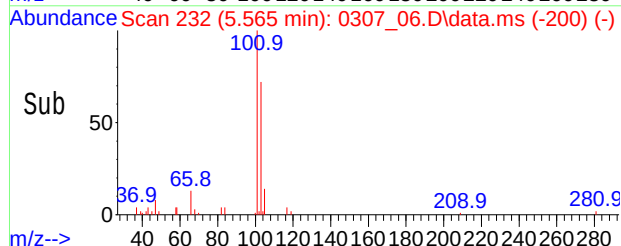
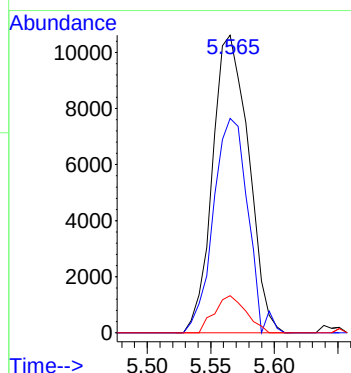
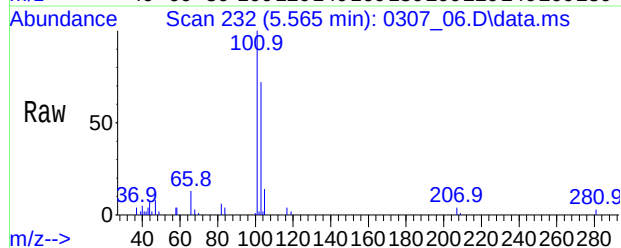
#12
Acetone
Conc: 8\$ 39.686 ppbv
RT: 5.436 min Scan# 211
Delta R.T. -0.025 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

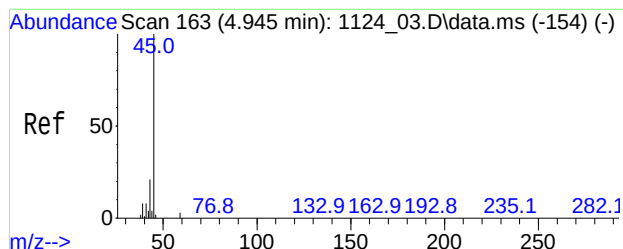
Tgt Ion: 43 Resp: 1202273
Ion Ratio Lower Upper
43 100
58 37.4 30.8 46.2



#13
Trichlorofluoromethane
Conc: 8\$ 0.250 ppbv
RT: 5.565 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

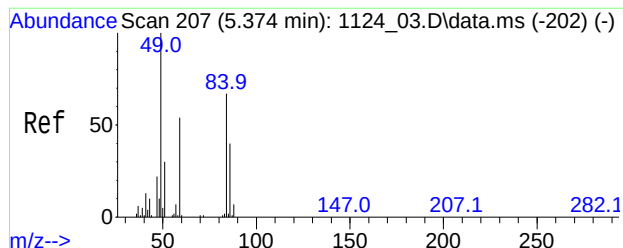
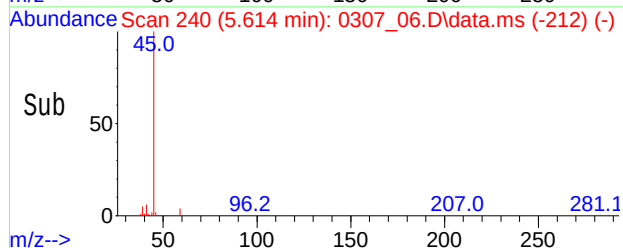
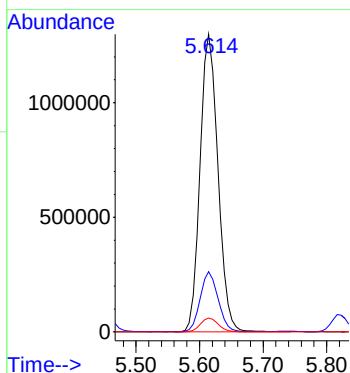
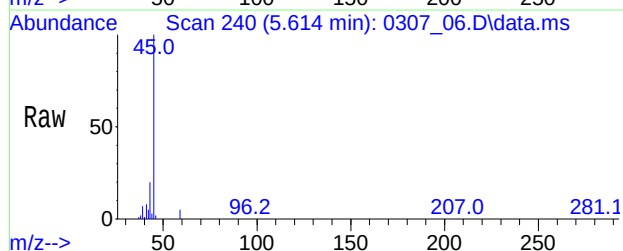
Tgt Ion: 101 Resp: 20964
Ion Ratio Lower Upper
101 100
103 68.7 52.9 79.3
66 10.9 7.3 10.9





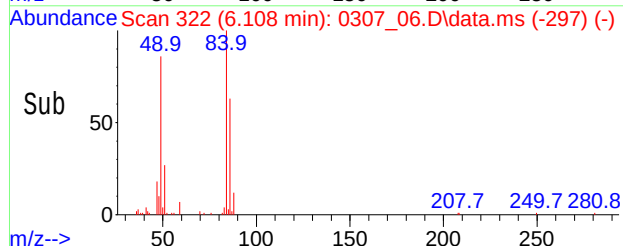
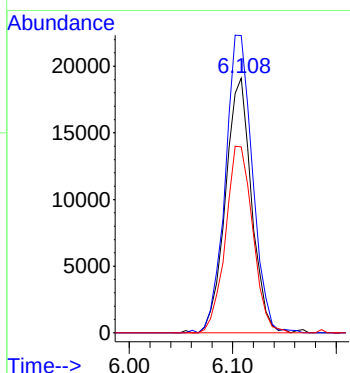
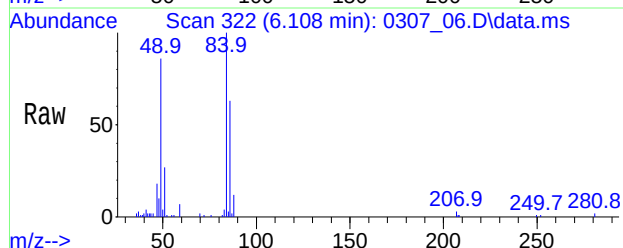
#14
Isopropylalcohol
Conc: 8\$ 71.598 ppbv
RT: 5.614 min Scan# 240
Delta R.T. -0.031 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

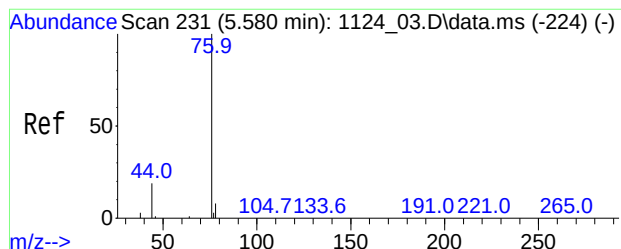
Tgt Ion: 45 Resp: 2541778
Ion Ratio Lower Upper
45 100
43 20.2 15.4 23.0
59 4.7 3.9 5.9



#17
Methylene Chloride
Conc: 8\$ 1.367 ppbv
RT: 6.108 min Scan# 322
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

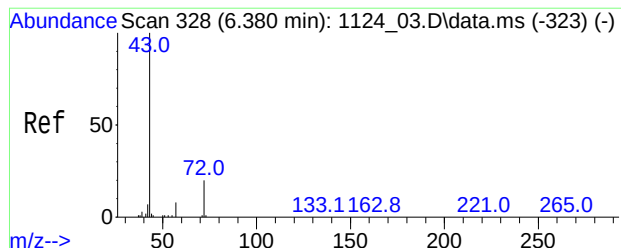
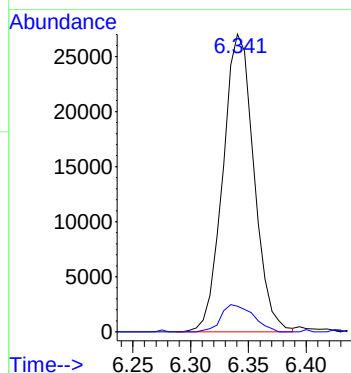
Tgt Ion: 49 Resp: 33417
Ion Ratio Lower Upper
49 100
84 121.8 94.4 141.6
86 76.6 61.5 92.3





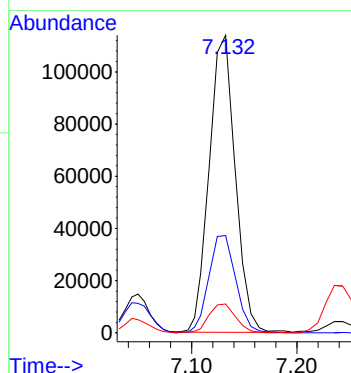
#20
Carbon Disulfide
Conc: 8\$ 0.622 ppbv
RT: 6.341 min Scan# 361
Delta R.T. -0.006 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

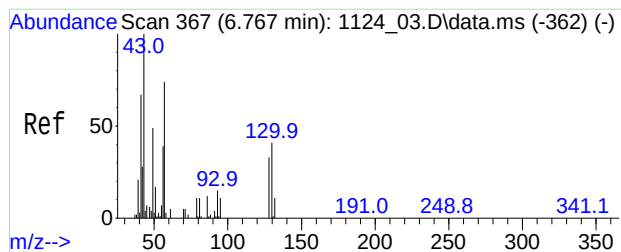
Tgt Ion: 76 Resp: 50521
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.0



#26
Methyl Ethyl Ketone
Conc: 8\$ 4.470 ppbv
RT: 7.132 min Scan# 493
Delta R.T. -0.016 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

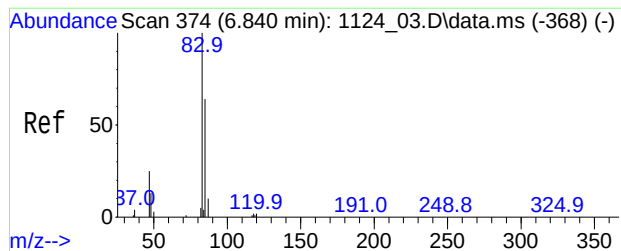
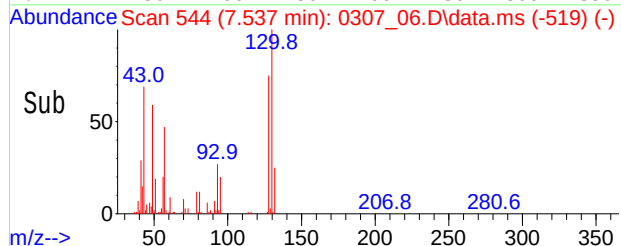
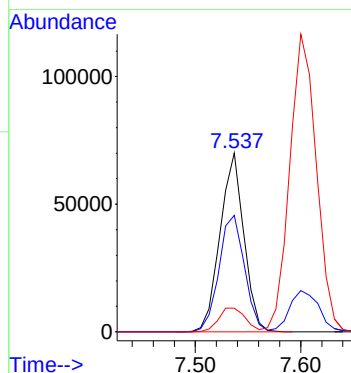
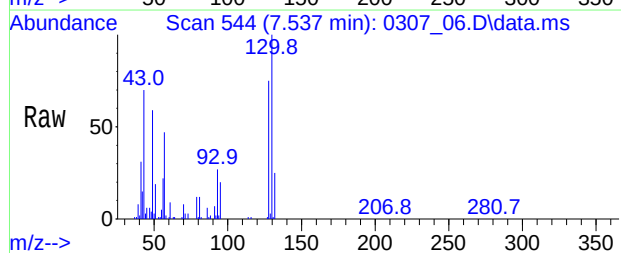
Tgt Ion: 43 Resp: 184710
Ion Ratio Lower Upper
43 100
72 34.0 27.2 40.8
57 10.1 7.8 11.8





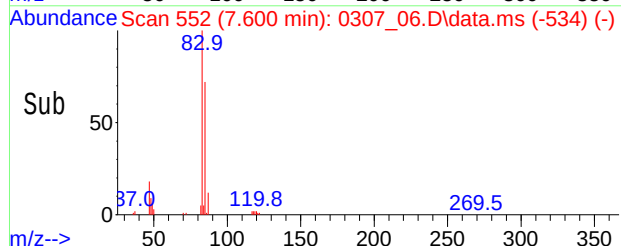
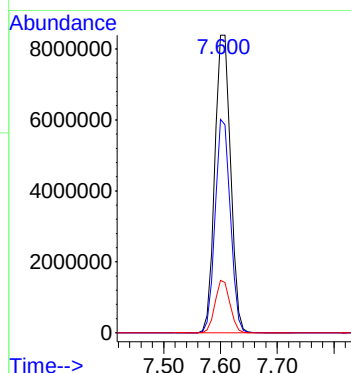
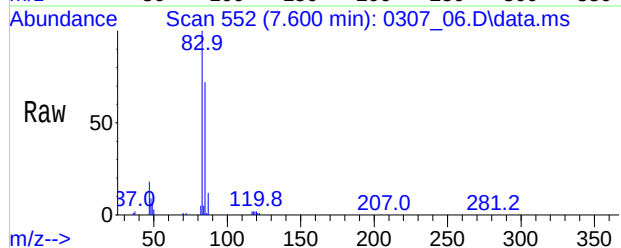
#28
Hexane
Conc: 8\$ 2.877 ppbv
RT: 7.537 min Scan# 544
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

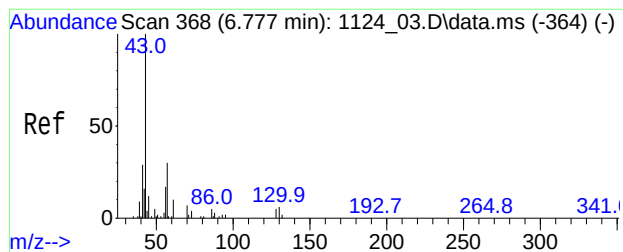
Tgt Ion	Ratio	Lower	Upper
57	100		
41	69.7	48.7	73.1
86	15.1	11.0	16.4



#29
Chloroform
Conc: 8\$ 245.556 ppbv
RT: 7.600 min Scan# 552
Delta R.T. -0.008 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

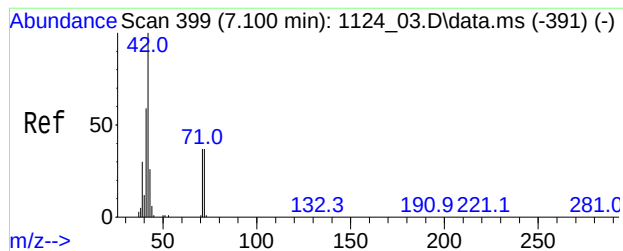
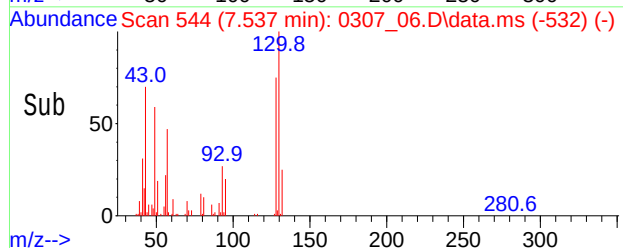
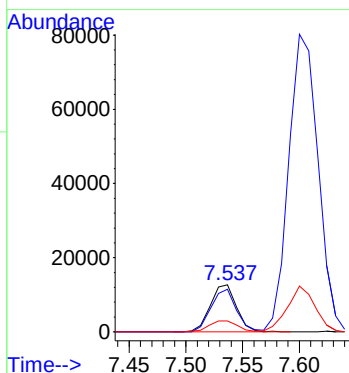
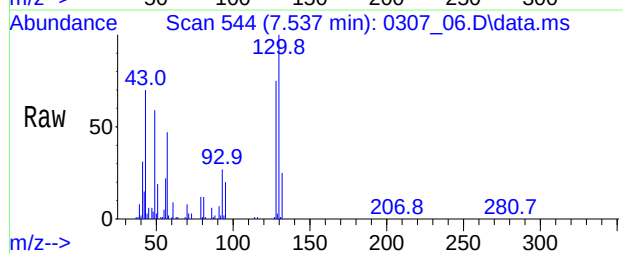
Tgt Ion	Ratio	Lower	Upper
83	100		
85	68.8	46.1	86.1
47	16.7	0.0	35.3





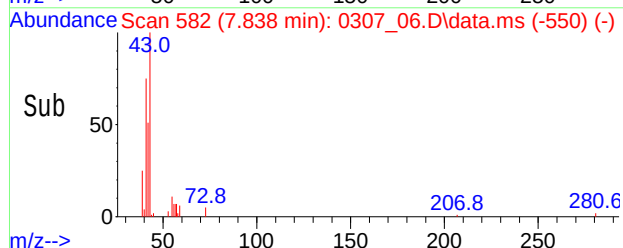
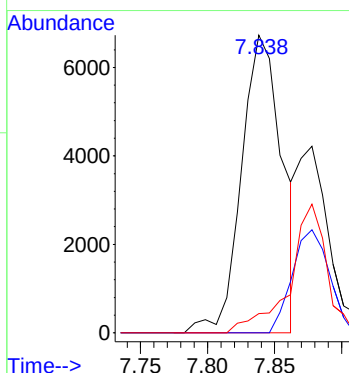
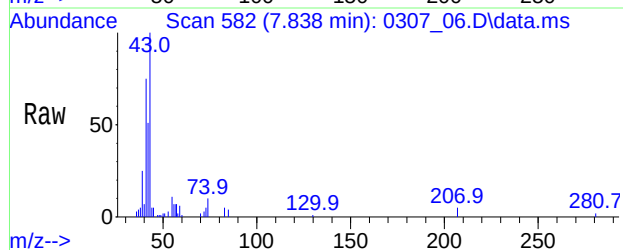
#30
Ethyl acetate
Conc: 8\$ 1.737 ppbv
RT: 7.537 min Scan# 544
Delta R.T. -0.008 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

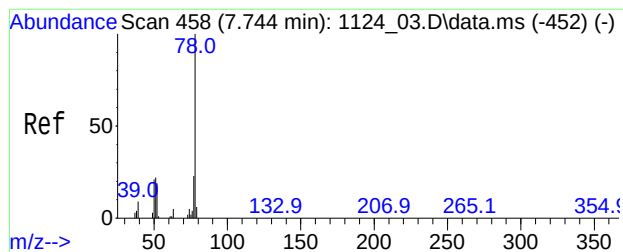
Tgt Ion:	61	Resp:	20136
Ion Ratio	Lower	Upper	
61	100		
70	89.1	61.0	91.6
88	25.7	17.8	26.6



#31
Tetrahydrofuran
Conc: 8\$ 0.594 ppbv
RT: 7.838 min Scan# 582
Delta R.T. -0.048 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

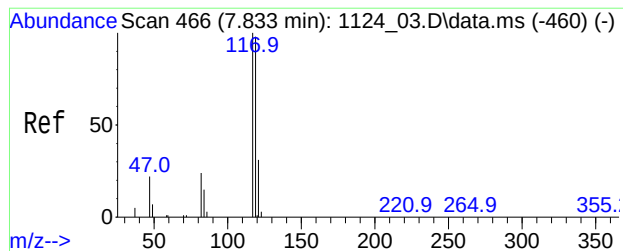
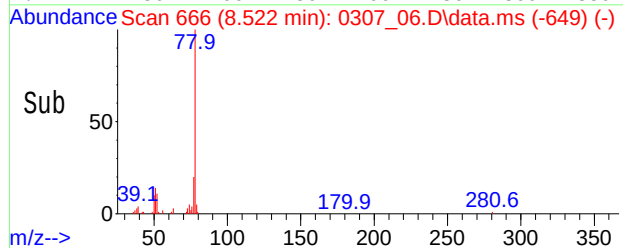
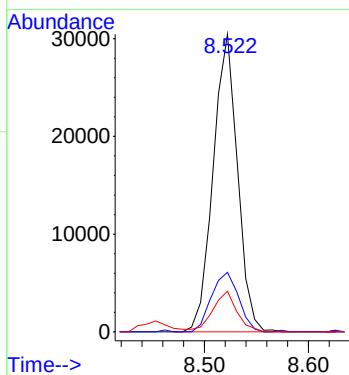
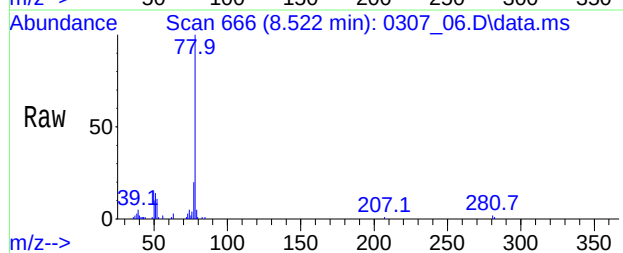
Tgt Ion:	42	Resp:	14206
Ion Ratio	Lower	Upper	
42	100		
71	31.3	45.4	68.0#
72	38.5	45.4	68.2#





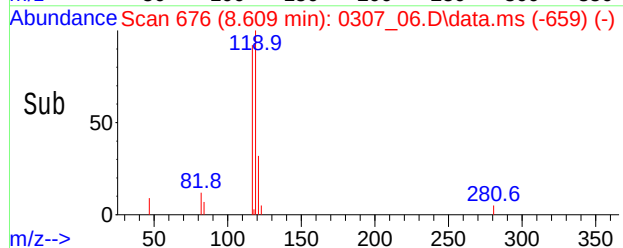
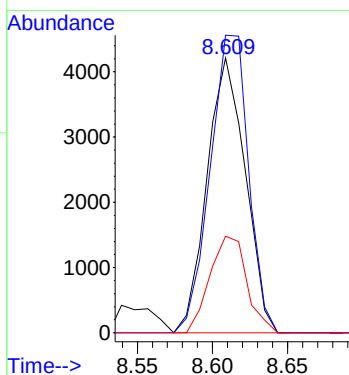
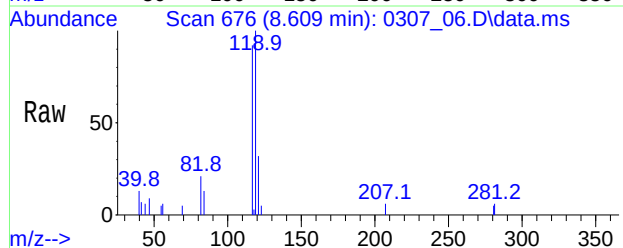
#34
Benzene
Conc: 8\$ 0.507 ppbv
RT: 8.522 min Scan# 666
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

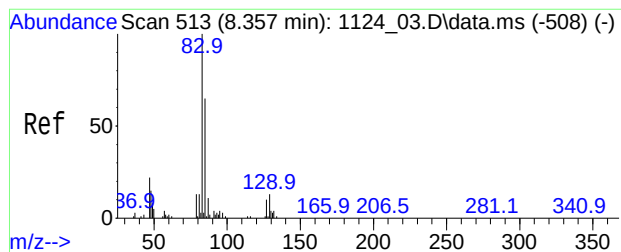
Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.4	27.6
51	13.4	9.7	14.5



#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.609 min Scan# 676
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

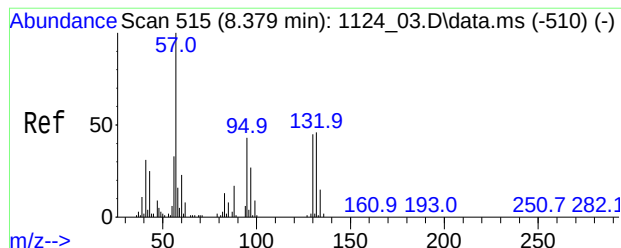
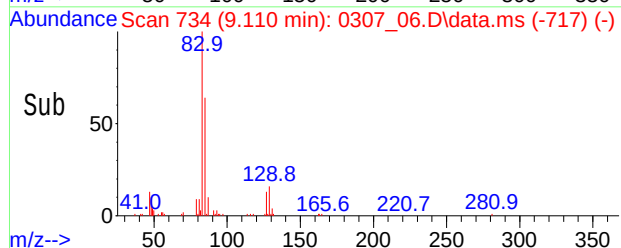
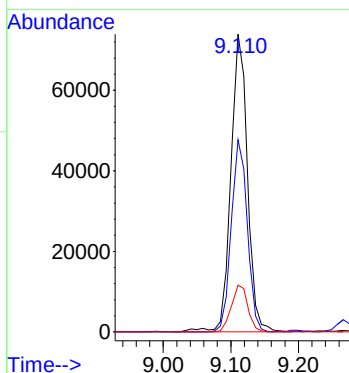
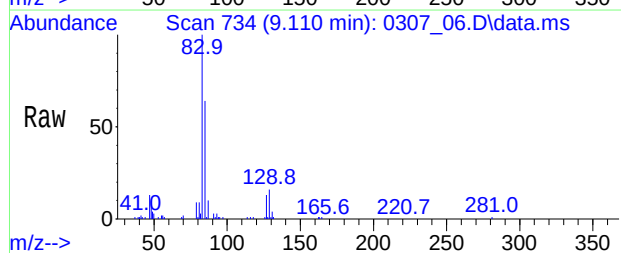
Tgt Ion	Ratio	Lower	Upper
117	100		
119	108.5	77.0	117.0
121	33.8	11.5	51.5





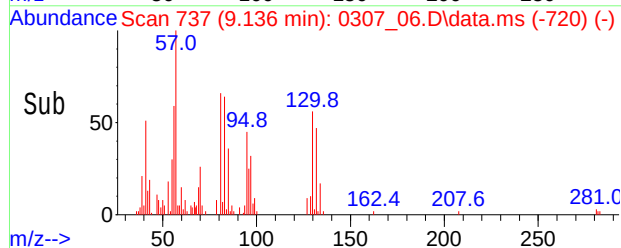
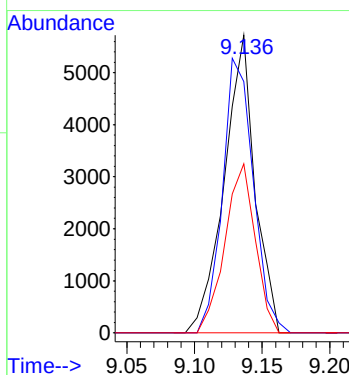
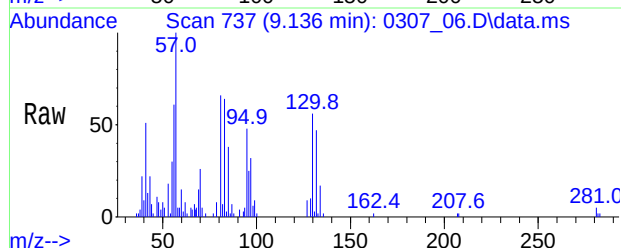
#39
Bromodichloromethane
Conc: 8\$ 1.822 ppbv
RT: 9.110 min Scan# 734
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

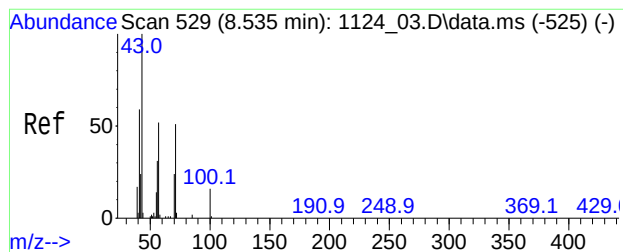
Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.3	44.1	84.1
129	15.5	0.0	35.7



#40
Trichloroethene
Conc: 8\$ 0.161 ppbv
RT: 9.136 min Scan# 737
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

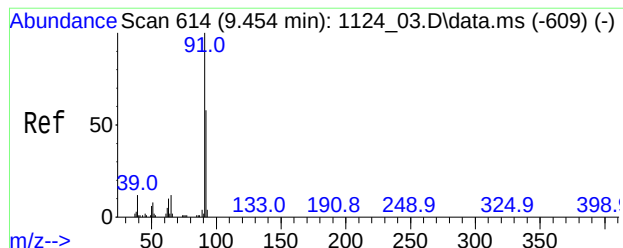
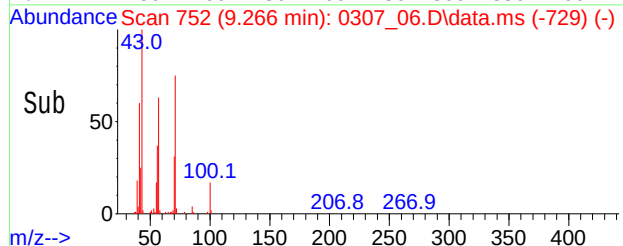
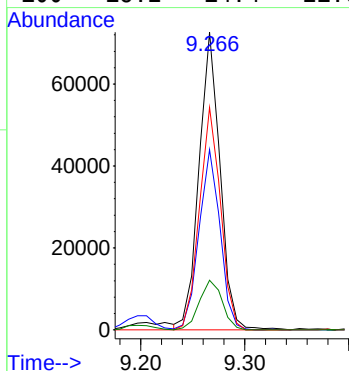
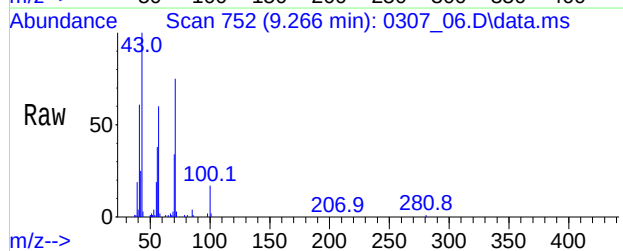
Tgt Ion	Ratio	Lower	Upper
130	100		
132	92.2	77.4	116.2
97	55.9	45.3	67.9





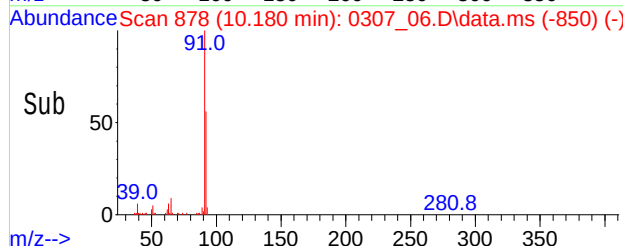
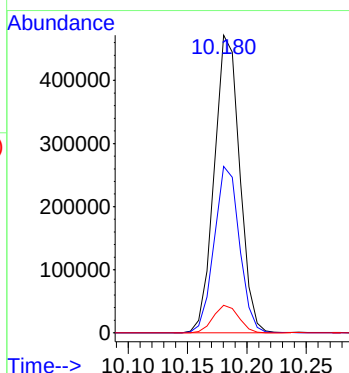
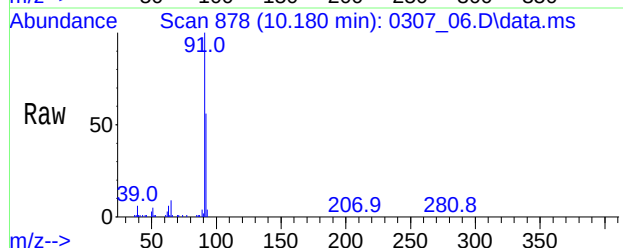
#44
Heptane
Conc: 8\$ 2.483 ppbv
RT: 9.266 min Scan# 752
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

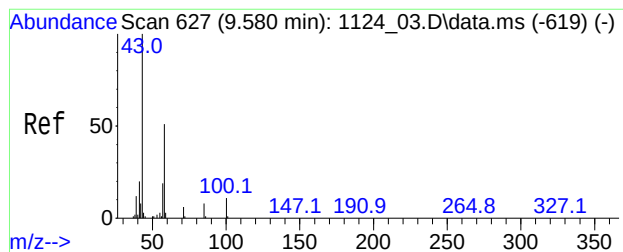
Tgt Ion: 43	Resp: 102279
Ion Ratio	Lower Upper
43 100	
57 60.4	50.6 75.8
71 74.6	62.9 94.3
100 18.2	14.4 21.6



#49
Toluene
Conc: 8\$ 5.310 ppbv
RT: 10.180 min Scan# 878
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

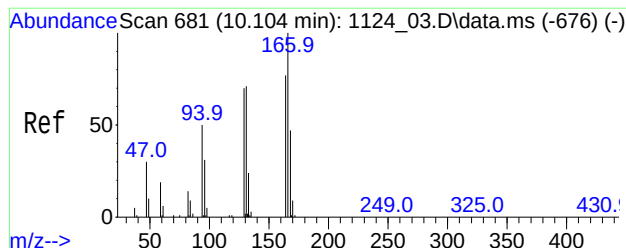
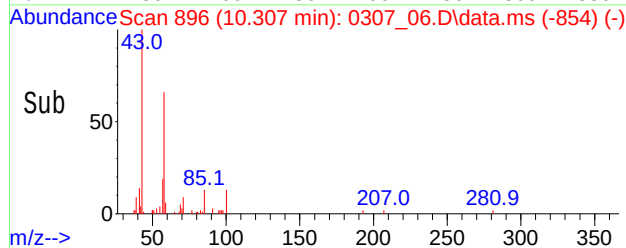
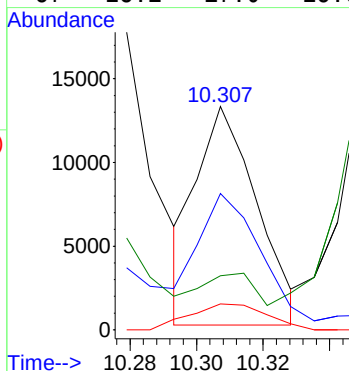
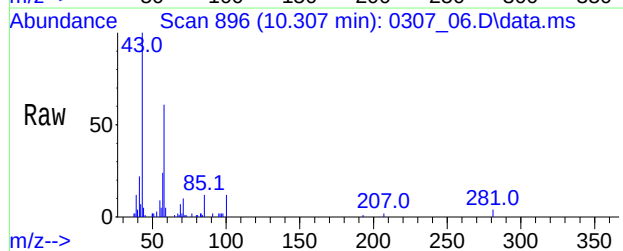
Tgt Ion: 91	Resp: 698004
Ion Ratio	Lower Upper
91 100	
92 55.7	44.6 66.8
65 9.4	7.2 10.8





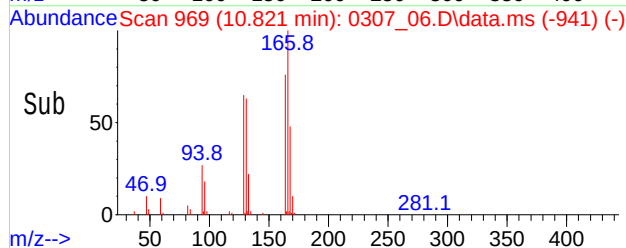
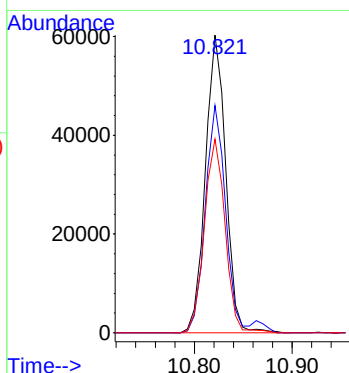
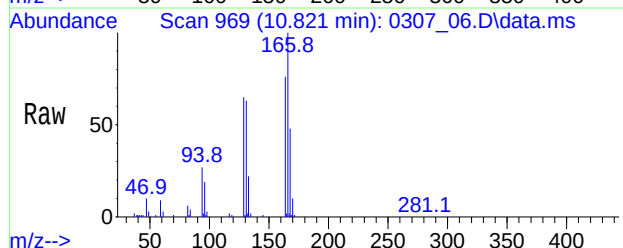
#51
2-Hexanone(MBK)
Conc: 8\$ 0.334 ppbv
RT: 10.307 min Scan# 896
Delta R.T. -0.007 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

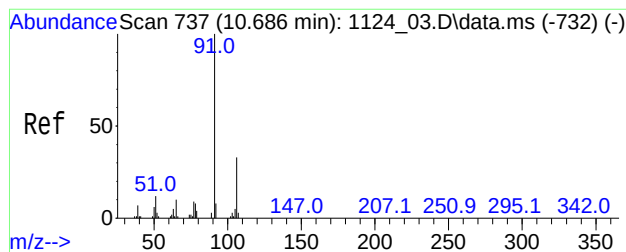
Tgt Ion:	43	Resp:	16516
Ion Ratio	Lower	Upper	
43	100		
58	66.1	50.3	75.5
100	15.1	9.8	14.6#
57	23.1	17.0	25.6



#53
Tetrachloroethene
Conc: 8\$ 1.018 ppbv
RT: 10.821 min Scan# 969
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

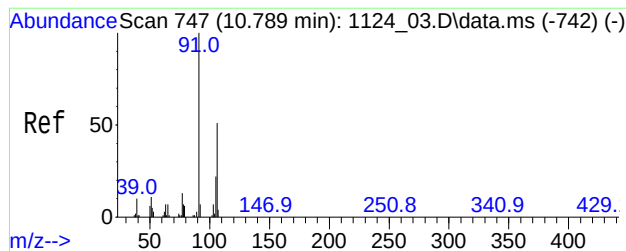
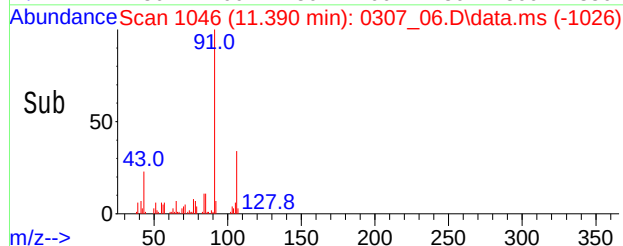
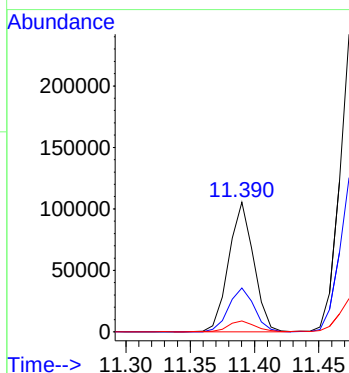
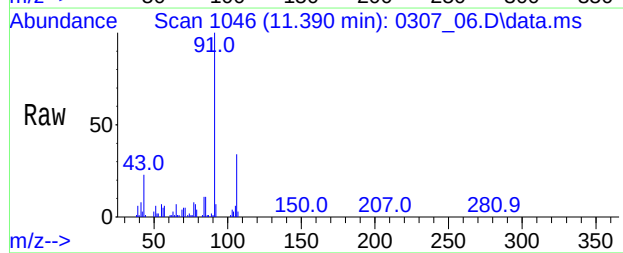
Tgt Ion:	166	Resp:	87191
Ion Ratio	Lower	Upper	
166	100		
164	76.2	62.3	93.5
129	66.3	54.7	82.1





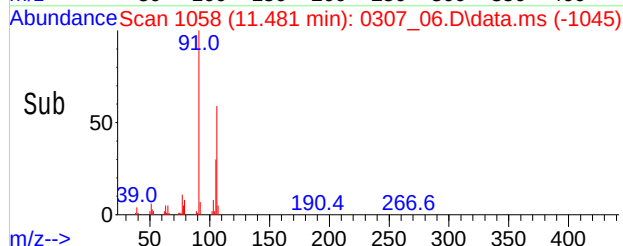
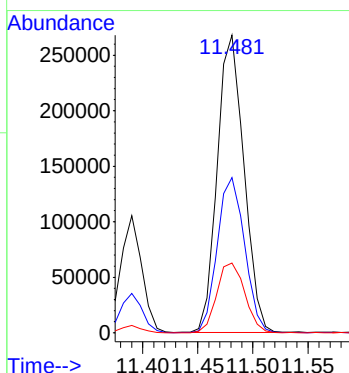
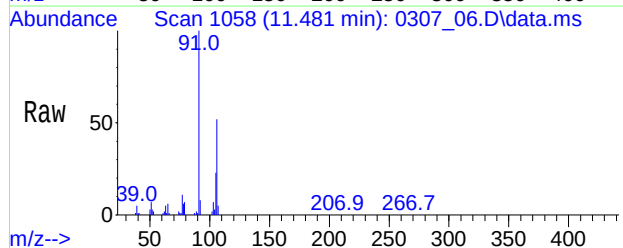
#57
Ethylbenzene
Conc: 8\$ 0.879 ppbv
RT: 11.390 min Scan# 1046
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

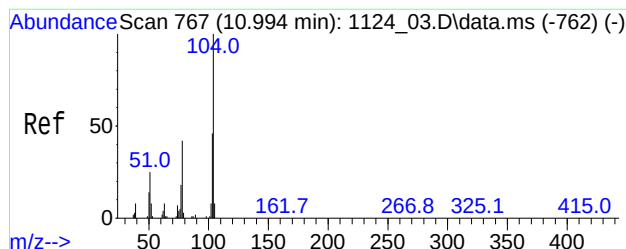
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	142845		
106	34.7	14.9	54.9	
77	9.5	0.0	27.6	



#58
m,p-Xylene
Conc: 8\$ 3.563 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

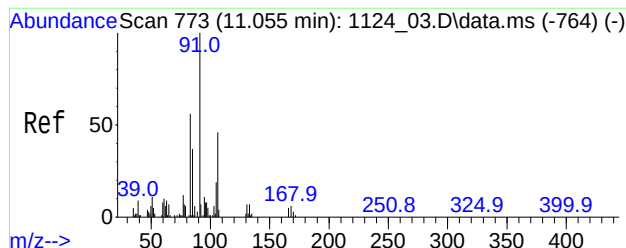
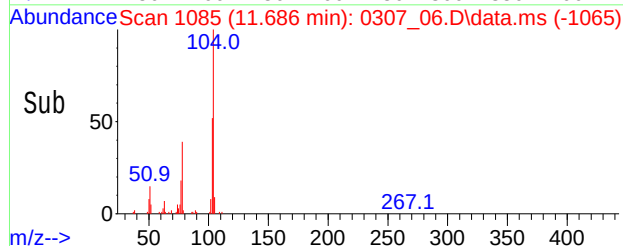
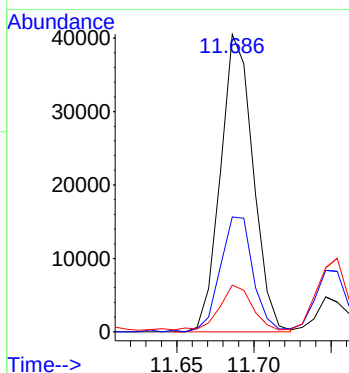
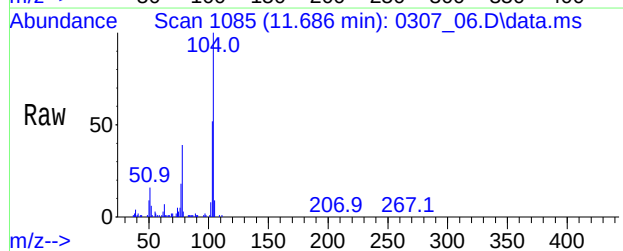
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	449399		
106	53.6	43.1	64.7	
105	24.7	20.2	30.2	





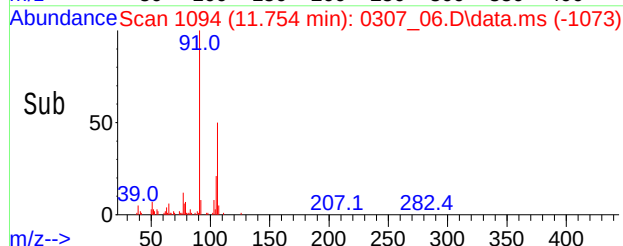
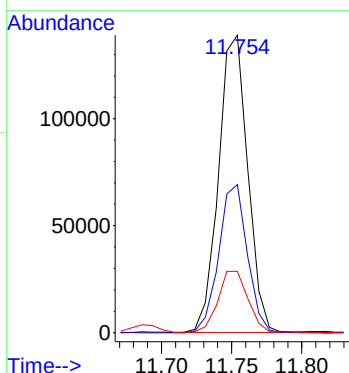
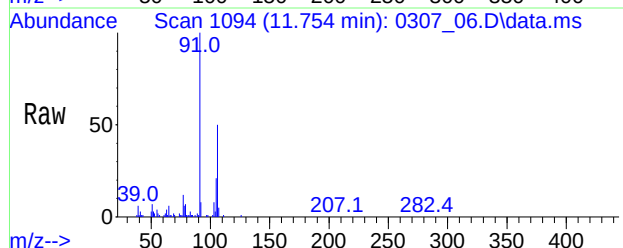
#60
Styrene
Conc: 8\$ 0.576 ppbv
RT: 11.686 min Scan# 1085
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

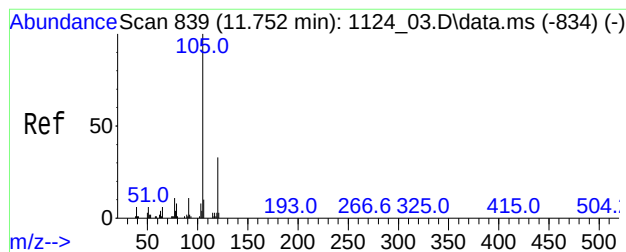
Tgt Ion	Ratio	Resp	Lower	Upper
104	100	59363		
78	39.0		30.0	45.0
51	15.1		12.4	18.6



#62
o-Xylene
Conc: 8\$ 1.544 ppbv
RT: 11.754 min Scan# 1094
Delta R.T. 0.008 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

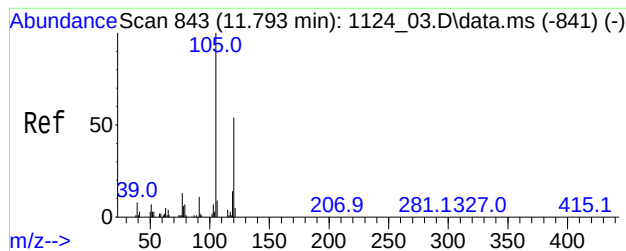
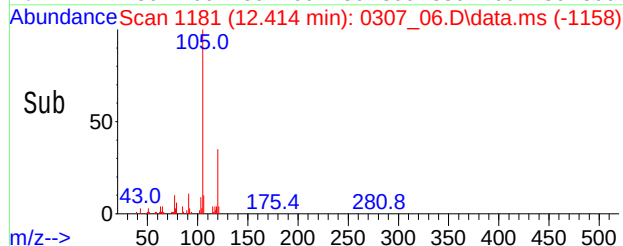
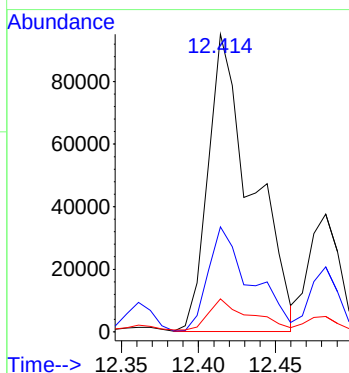
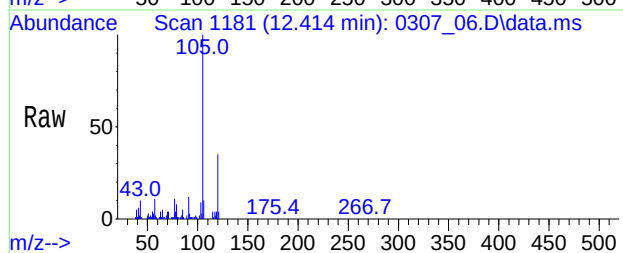
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	201001		
106	49.0		40.5	60.7
105	21.6		16.9	25.3





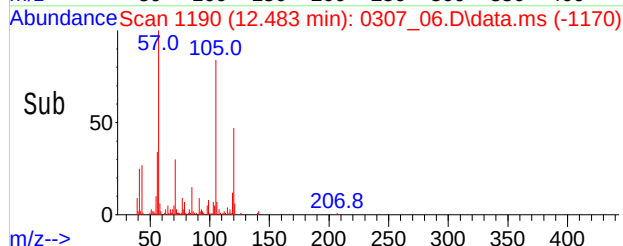
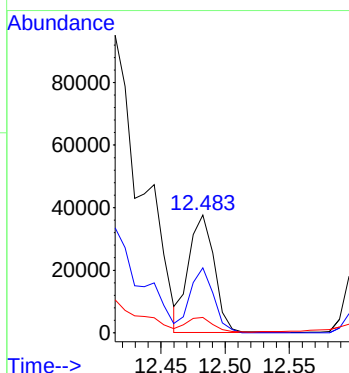
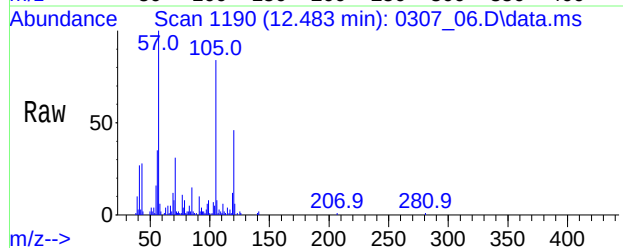
#67
4-Ethyltoluene
Conc: 8\$ 0.912 ppbv
RT: 12.414 min Scan# 1181
Delta R.T. -0.023 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

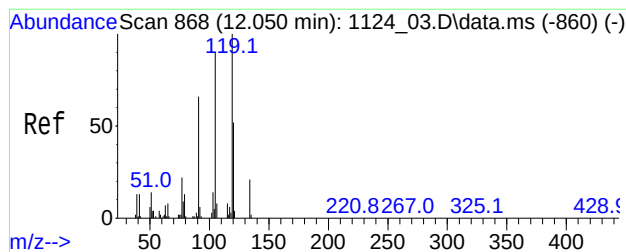
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	188071		
120	34.8	25.2	37.8	
77	10.1	7.0	10.6	



#68
1,3,5-Trimethylbenzene
Conc: 8\$ 0.326 ppbv
RT: 12.483 min Scan# 1190
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

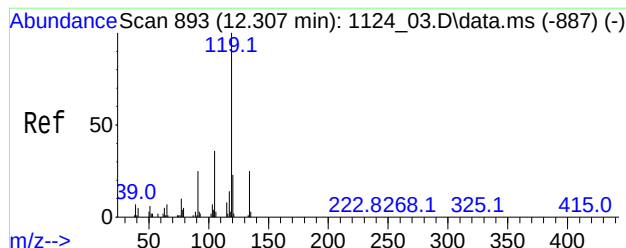
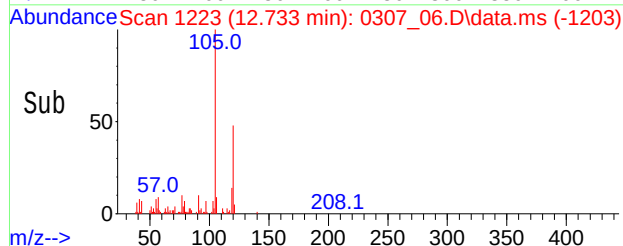
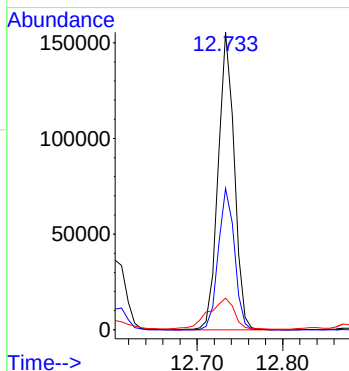
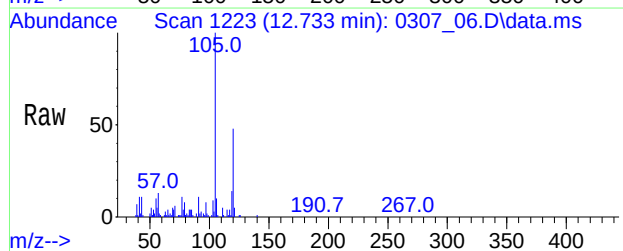
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	52124		
120	51.5	44.1	66.1	
77	12.9	8.9	13.3	





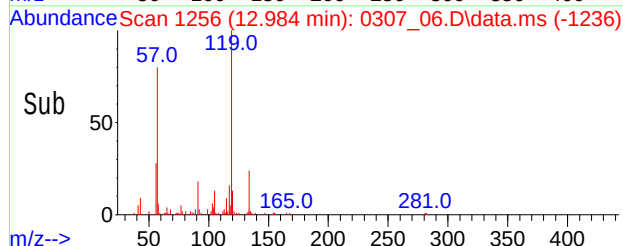
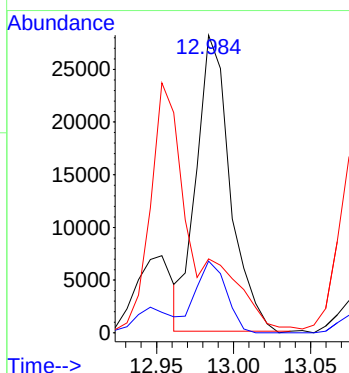
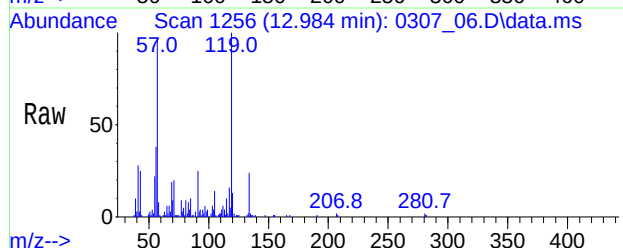
#69
1,2,4-Trimethylbenzene
Conc: 8\$ 1.198 ppbv
RT: 12.733 min Scan# 1223
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

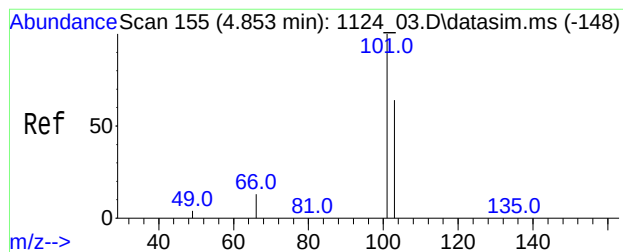
Tgt Ion	Ratio	Resp	Lower	Upper
105	100	203254		
120	47.5	46.1	69.1	
77	16.4	15.4	23.2	



#75
4-Isopropyltoluene
Conc: 8\$ 0.184 ppbv
RT: 12.984 min Scan# 1256
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

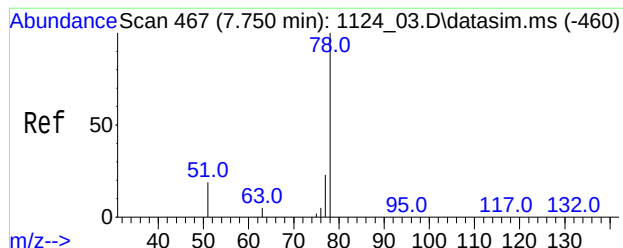
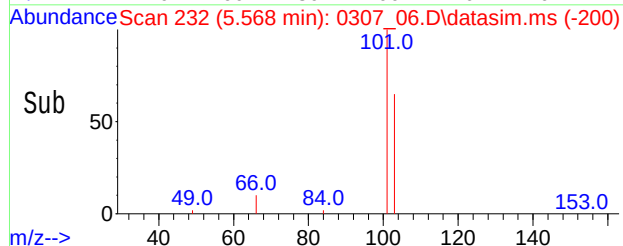
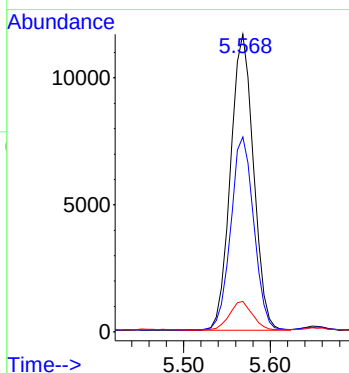
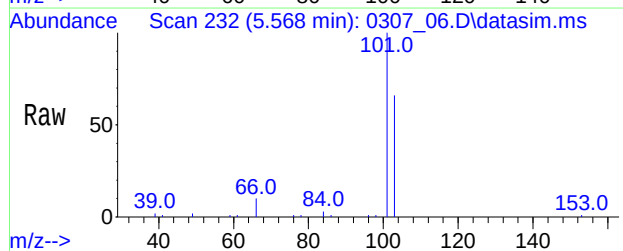
Tgt Ion	Ratio	Resp	Lower	Upper
119	100	42767		
134	22.5	21.0	31.4	
91	0.0	20.6	30.8#	





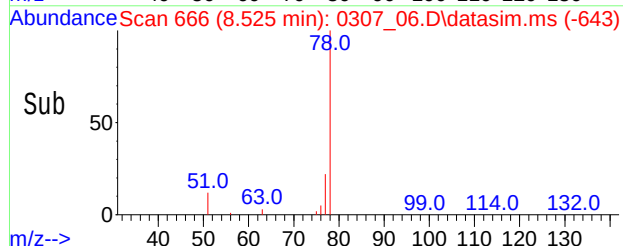
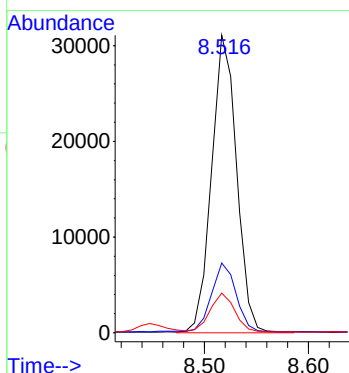
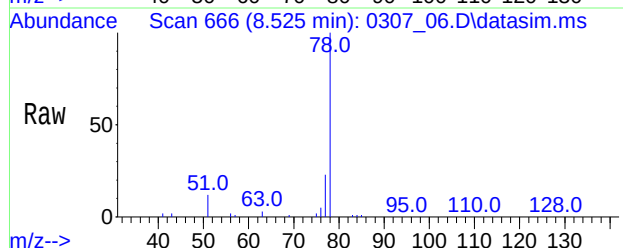
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.238 ppbv
RT: 5.568 min Scan# 232
Delta R.T. -0.006 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

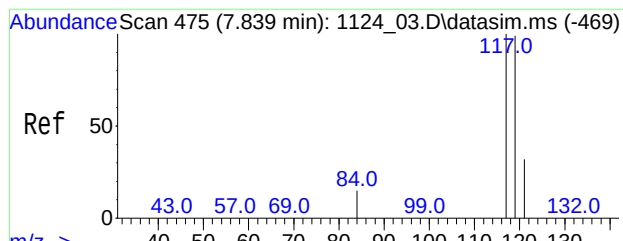
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	21491		
103	65.4	52.2	78.4	
66	9.4	9.3	9.3	



#88
Benzene(sim)
Conc: 8\$ 0.477 ppbv
RT: 8.522 min Scan# 666
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

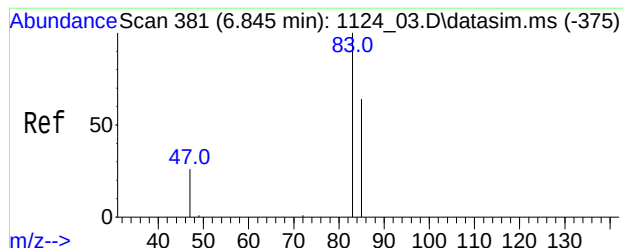
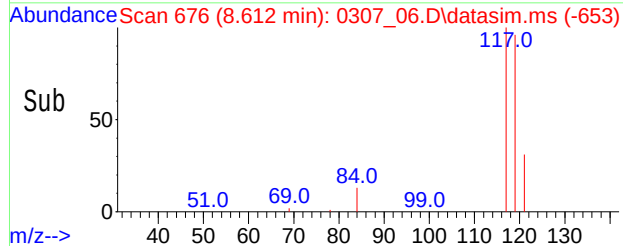
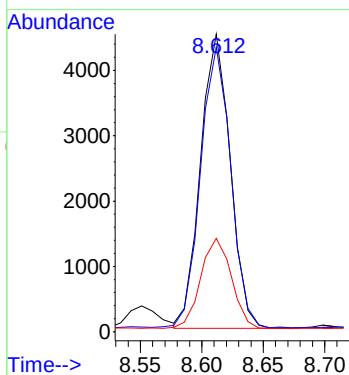
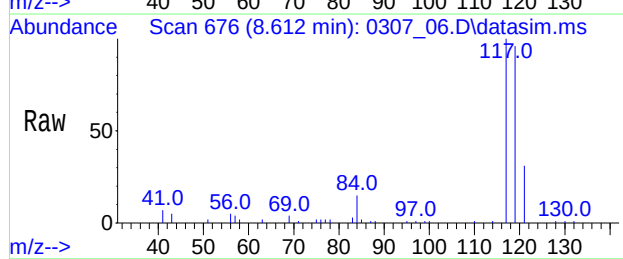
Tgt Ion	Ratio	Resp	Lower	Upper
78	100	49356		
77	22.3	18.4	27.6	
51	13.4	9.7	14.5	





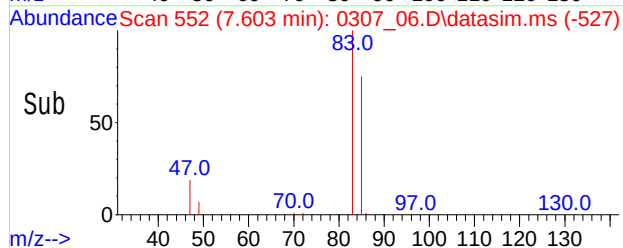
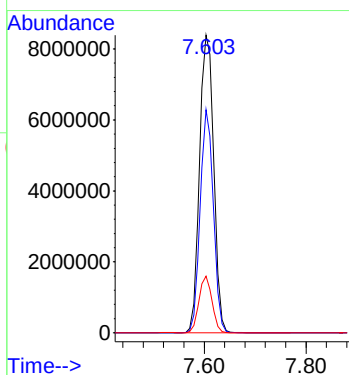
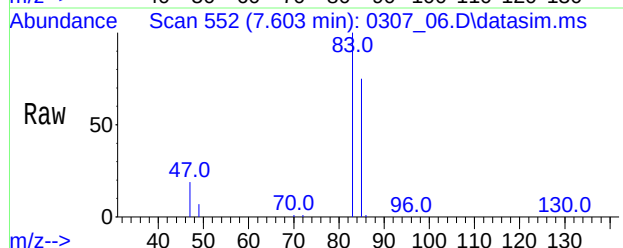
#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.094 ppbv
RT: 8.612 min Scan# 676
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

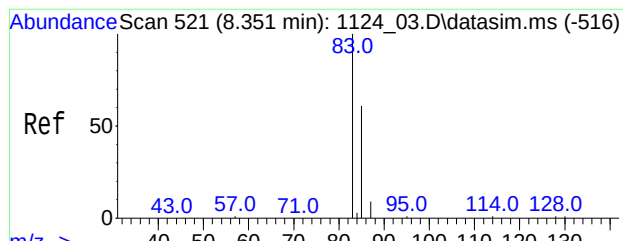
Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.7	116.5
121	31.7	25.1	37.7



#95
Chloroform(sim)
Conc: 8\$ 209.932 ppbv
RT: 7.603 min Scan# 552
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

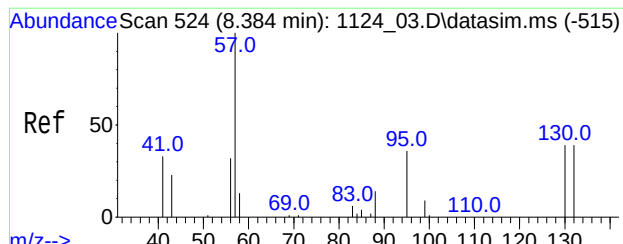
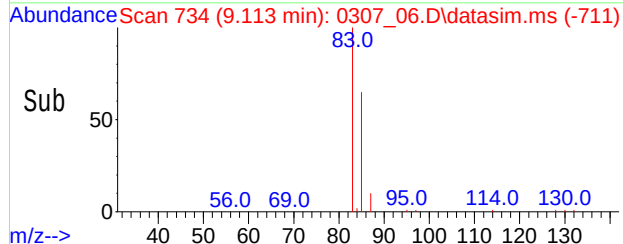
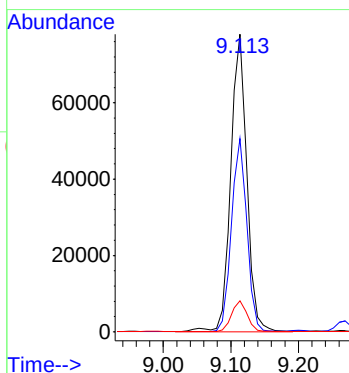
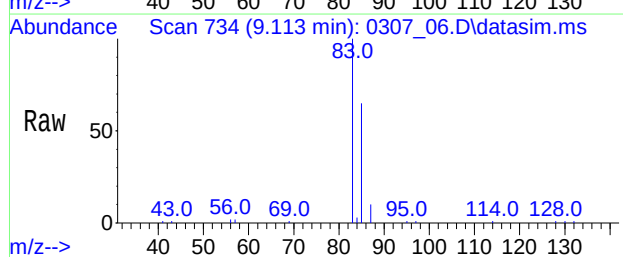
Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.9	52.6	78.8
47	17.6	12.6	18.8





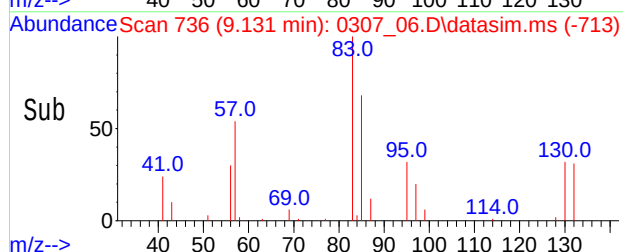
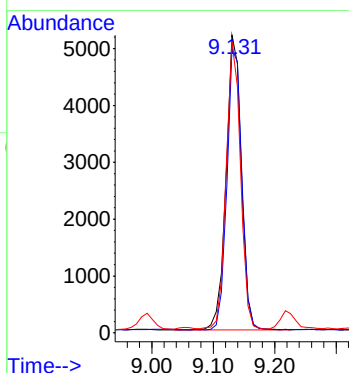
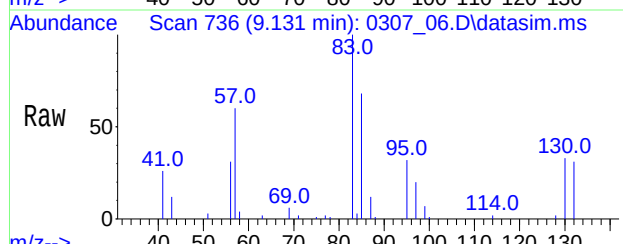
#98
Bromodichloromethane(sim)
Conc: 8\$ 1.686 ppbv
RT: 9.110 min Scan# 734
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

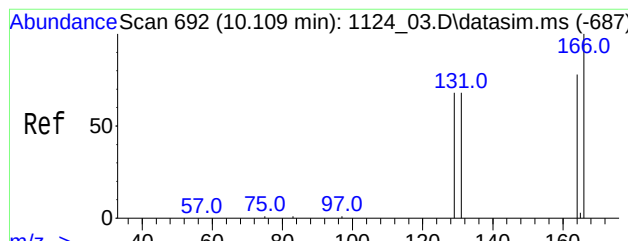
Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.3	44.1	84.1
87	10.3	0.0	33.0



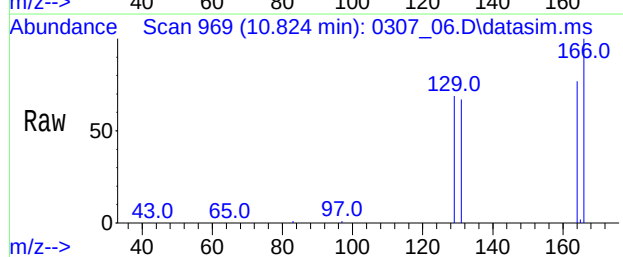
#99
Trichloroethene(sim)
Conc: 8\$ 0.154 ppbv
RT: 9.131 min Scan# 736
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm

Tgt Ion	Ratio	Lower	Upper
130	100		
132	92.8	77.0	115.6
95	91.5	71.4	107.2

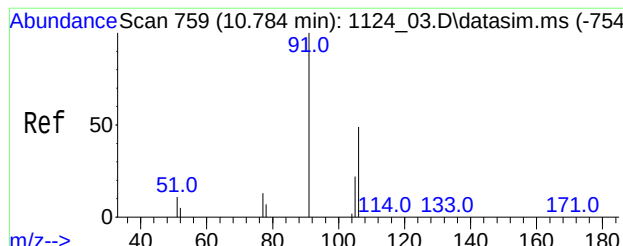
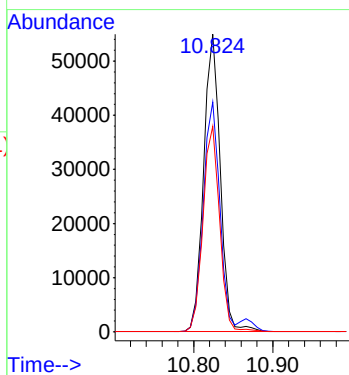
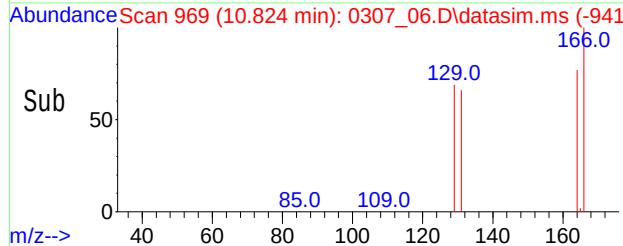




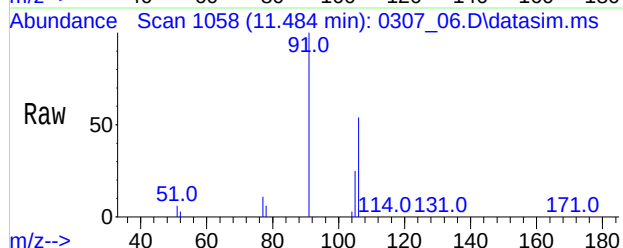
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.933 ppbv
RT: 10.824 min Scan# 969
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm



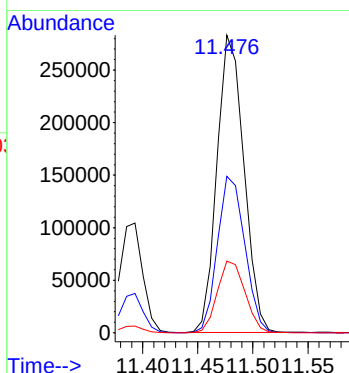
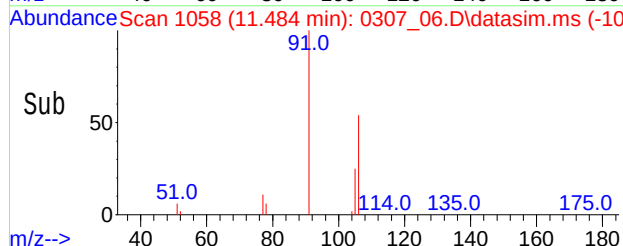
Tgt Ion: 166 Resp: 80294
Ion Ratio Lower Upper
166 100
164 76.9 57.9 97.9
129 68.8 50.0 90.0

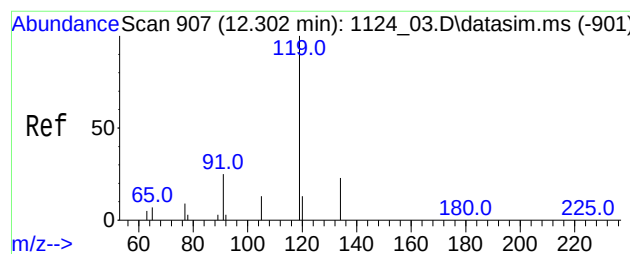


#108
m,p-Xylene(sim)
Conc: 8\$ 3.395 ppbv
RT: 11.481 min Scan# 1058
Delta R.T. -0.000 min
Lab File: 0307_06.D
Acq: 7 Mar 2023 2:22 pm



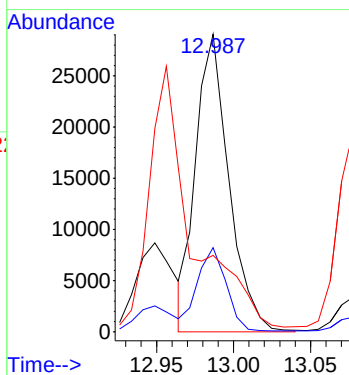
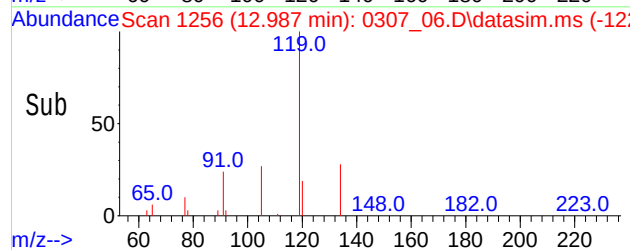
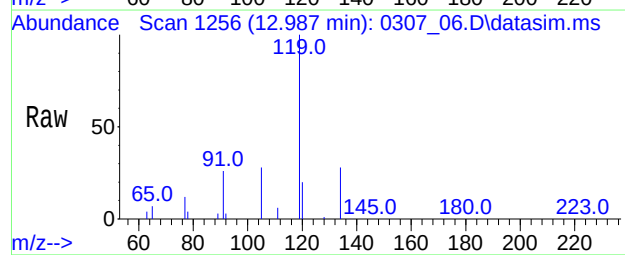
Tgt Ion: 91 Resp: 449641
Ion Ratio Lower Upper
91 100
106 53.6 48.5 59.3
105 24.7 20.2 30.2





#116
 4-Isopropyltoluene(sim)
 Conc: 8\$ 0.185 ppbv
 RT: 12.984 min Scan# 1256
 Delta R.T. -0.000 min
 Lab File: 0307_06.D
 Acq: 7 Mar 2023 2:22 pm

Tgt Ion:	119	Resp:	43431
Ion Ratio	Lower	Upper	
119	100		
134	22.2	21.0	31.4
91	0.0	20.6	30.8#



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN54092 LCS
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54092 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0307_04.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>03/07/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>03/07/23</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	9.86		0.581	0.581	r
75-71-8	Dichlorodifluoromethane	9.94		0.202	0.202	r
74-87-3	Chloromethane	10.9		0.485	0.485	r
76-14-2	1,2-Dichlorotetrafluoroethane	11.1		0.143	0.143	r
75-01-4	Vinyl Chloride	10.5		0.078	0.078	r
106-99-0	1,3-Butadiene	10.3		0.452	0.452	r
74-83-9	Bromomethane	11.0		0.258	0.258	r
75-00-3	Chloroethane	12.1		0.379	0.379	r
64-17-5	Ethanol	13.9		0.531	0.531	r
67-64-1	Acetone	10.4		0.421	0.421	r
75-69-4	Trichlorofluoromethane	11.0		0.178	0.178	r
67-63-0	Isopropylalcohol	11.1		0.407	0.407	r
107-13-1	Acrylonitrile	10.2		0.461	0.461	r
75-35-4	1,1-Dichloroethene	11.2		0.051	0.051	r
75-09-2	Methylene Chloride	11.2		0.863	0.863	r
75-15-0	Carbon Disulfide	7.00		0.321	0.321	r
76-13-1	Trichlorotrifluoroethane	11.3		0.131	0.131	r
156-60-5	Trans-1,2-Dichloroethene	9.27		0.252	0.252	r
75-34-3	1,1-Dichloroethane	9.17		0.247	0.247	r
1634-04-4	Methyl tert-butyl ether(MTBE)	9.26		0.278	0.278	r
78-93-3	Methyl Ethyl Ketone	9.48		0.339	0.339	r
156-59-2	Cis-1,2-Dichloroethene	8.94		0.051	0.051	r
110-54-3	Hexane	8.92		0.284	0.284	r
67-66-3	Chloroform	9.62		0.205	0.205	r
141-78-6	Ethyl acetate	6.62		0.278	0.278	r
109-99-9	Tetrahydrofuran	9.13		0.339	0.339	r
107-06-2	1,2-Dichloroethane	8.95		0.247	0.247	r
71-55-6	1,1,1-Trichloroethane	9.04		0.183	0.183	r
71-43-2	Benzene	9.12		0.313	0.313	r
56-23-5	Carbon Tetrachloride	9.78		0.032	0.032	r
110-82-7	Cyclohexane	8.84		0.291	0.291	r
78-87-5	1,2-dichloropropane	9.19		0.217	0.217	r
75-27-4	Bromodichloromethane	9.61		0.149	0.149	r
79-01-6	Trichloroethene	9.74		0.037	0.037	r
123-91-1	1,4-Dioxane	8.51		0.278	0.278	r
142-82-5	Heptane	9.61		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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CN54092 LCS
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54092 LCS</u>	
Canister:	<u>LCS</u>	Lab File ID:	<u>0307_04.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>03/07/23</u>
Purge Volume	<u>200</u>	(cc)	Date Analyzed:	<u>03/07/23</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
10061-01-5	cis-1,3-Dichloropropene	9.70		0.220	0.220	r
108-10-1	4-Methyl-2-pentanone(MIBK)	9.67		0.244	0.244	r
10061-02-6	trans-1,3-Dichloropropene	10.1		0.220	0.220	r
79-00-5	1,1,2-Trichloroethane	9.45		0.183	0.183	r
108-88-3	Toluene	9.70		0.266	0.266	r
124-48-1	Dibromochloromethane	11.2		0.117	0.117	r
591-78-6	2-Hexanone(MBK)	10.4		0.244	0.244	r
106-93-4	1,2-Dibromoethane(EDB)	10.1		0.130	0.130	r
127-18-4	Tetrachloroethene	10.2		0.037	0.037	r
630-20-6	1,1,1,2-Tetrachloroethane	10.7		0.146	0.146	r
108-90-7	Chlorobenzene	10.2		0.217	0.217	r
100-41-4	Ethylbenzene	9.65		0.230	0.230	r
179601-23-1	m,p-Xylene	20.1		0.230	0.230	r
75-25-2	Bromoform	12.0		0.097	0.097	r
100-42-5	Styrene	9.76		0.235	0.235	r
79-34-5	1,1,2,2-Tetrachloroethane	9.85		0.146	0.146	r
95-47-6	o-Xylene	9.47		0.230	0.230	r
98-82-8	Isopropylbenzene	10.4		0.204	0.204	r
622-96-8	4-Ethyltoluene	10.4		0.204	0.204	r
108-67-8	1,3,5-Trimethylbenzene	10.1		0.204	0.204	r
95-63-6	1,2,4-Trimethylbenzene	10.5		0.204	0.204	r
100-44-7	Benzyl chloride	11.3		0.193	0.193	r
541-73-1	1,3-Dichlorobenzene	10.6		0.166	0.166	r
106-46-7	1,4-Dichlorobenzene	10.9		0.166	0.166	r
135-98-8	sec-Butylbenzene	10.4		0.182	0.182	r
99-87-6	4-Isopropyltoluene	10.6		0.182	0.182	r
95-50-1	1,2-Dichlorobenzene	10.7		0.166	0.166	r
104-51-8	n-Butylbenzene	10.7		0.182	0.182	r
120-82-1	1,2,4-Trichlorobenzene	8.85		0.135	0.135	r
87-68-3	Hexachlorobutadiene	9.01		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:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_04.D
 Acq On : 7 Mar 2023 11:41 am
 Operator :
 Client ID : CN54092 LCS
 Lab ID : CN54092 LCS
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 07 13:09:38 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.517	130	371377	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1366702	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	672402	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	436604	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1366702	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	671618	10.000	ng	0.00

System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	724511	9.870	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.70%

Target Compounds						Qvalue
2) Propylene	4.078	41	327646	9.861	ppbv	97
3) Dichlorodifluoromethane	4.153	85	1296633	9.942	ppbv	99
4) Chloromethane	4.304	50	710970	10.878	ppbv	99
5) 1,2-Dichlorotetrafluor...	4.401	85	2272490	11.074	ppbv	98
6) Vinyl Chloride	4.509	62	760829	10.458	ppbv	96
7) 1,3-Butadiene	4.628	54	626167	10.245	ppbv	96
8) Bromomethane	4.865	94	815432	11.008	ppbv	96
9) Chloroethane	5.005	64	351235	12.106	ppbv	93
11) Ethanol	5.113	45	359231	13.858	ppbv#	95
12) Acetone	5.479	43	1724592	10.371	ppbv	95
13) Trichlorofluoromethane	5.598	101	2870158	10.995	ppbv	98
14) Isopropylalcohol	5.673	45	1969661	11.108	ppbv	99
15) Acrylonitrile	5.803	53	671050	10.203	ppbv	95
16) 1,1-Dichloroethene	6.046	61	1600551	11.199	ppbv	93
17) Methylene Chloride	6.124	49	1305819	11.150	ppbv	93
20) Carbon Disulfide	6.356	76	1327106m	7.001	ppbv	96
21) Trichlorotrifluoroethane	6.296	101	2022653	11.298	ppbv	93
22) Trans-1,2-Dichloroethene	6.752	61	498583	9.274	ppbv	98
23) 1,1-Dichloroethane	6.886	63	655559	9.169	ppbv	97
24) Methyl tert-butyl ethe...	6.925	73	864358	9.263	ppbv	96
26) Methyl Ethyl Ketone	7.130	43	944194	9.483	ppbv	94
27) Cis-1,2-Dichloroethene	7.413	61	495342	8.941	ppbv	90
28) Hexane	7.528	57	598134	8.921	ppbv	87
29) Chloroform	7.590	83	744958	9.622	ppbv	94
30) Ethyl acetate	7.528	61	117809m	6.621	ppbv	97
31) Tetrahydrofuran	7.861	42	545717	9.128	ppbv	93
32) 1,2-Dichloroethane	8.059	62	498796	8.954	ppbv	94
33) 1,1,1-Trichloroethane	8.215	97	714150	9.038	ppbv	99
34) Benzene	8.501	78	1014389	9.121	ppbv	94
35) Carbon Tetrachloride	8.592	117	710634	9.784	ppbv	98
36) Cyclohexane	8.671	84	394970	8.835	ppbv#	90
38) 1,2-dichloropropane	8.977	63	467070	9.187	ppbv	91
39) Bromodichloromethane	9.090	83	811983	9.607	ppbv	99
40) Trichloroethene	9.101	130	602461	9.743	ppbv	98
42) 1,4-Dioxane	9.112	88	243471	8.511	ppbv	97
44) Heptane	9.237	43	838301	9.612	ppbv	95
45) cis-1,3-Dichloropropene	9.581	75	605060	9.702	ppbv	99
46) 4-Methyl-2-pentanone(M...	9.601	43	1286288	9.666	ppbv	96
47) trans-1,3-Dichloropropene	9.873	75	560388	10.083	ppbv	98
48) 1,1,2-Trichloroethane	9.989	97	452248	9.450	ppbv	96
49) Toluene	10.144	91	1327160	9.700	ppbv	97
50) Dibromochloromethane	10.397	129	927267	11.189	ppbv	98

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_04.D
 Acq On : 7 Mar 2023 11:41 am
 Operator :
 Client ID : CN54092 LCS
 Lab ID : CN54092 LCS
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 07 13:09:38 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51)	2-Hexanone(MBK)	10.261	43	1204032	10.411	ppbv#	93
52)	1,2-Dibromoethane(EDB)	10.542	107	808595	10.102	ppbv	95
53)	Tetrachloroethene	10.785	166	709322	10.164	ppbv	95
55)	1,1,1,2-Tetrachloroethane	11.141	131	640242	10.662	ppbv	96
56)	Chlorobenzene	11.152	112	1108982	10.200	ppbv	94
57)	Ethylbenzene	11.346	91	1667050	9.654	ppbv	99
58)	m,p-Xylene	11.438	91	2637908	20.088	ppbv	99
59)	Bromoform	11.520	173	856225	11.958	ppbv	97
60)	Styrene	11.643	104	993657	9.763	ppbv	96
61)	1,1,2,2-Tetrachloroethane	11.695	83	1152629	9.853	ppbv	98
62)	o-Xylene	11.705	91	1366999	9.470	ppbv	96
65)	Isopropylbenzene	12.023	105	1882479	10.410	ppbv	98
67)	4-Ethyltoluene	12.392	105	2109527	10.415	ppbv	99
68)	1,3,5-Trimethylbenzene	12.423	105	1484591	10.133	ppbv	92
69)	1,2,4-Trimethylbenzene	12.679	105	1843059	10.464	ppbv	94
71)	Benzyl chloride	12.782	91	1086928	11.260	ppbv	99
72)	1,3-Dichlorobenzene	12.792	146	1310887	10.594	ppbv	97
73)	1,4-Dichlorobenzene	12.833	146	1374769	10.864	ppbv	95
74)	sec-Butylbenzene	12.843	105	2595024	10.435	ppbv	98
75)	4-Isopropyltoluene	12.925	119	2524551	10.636	ppbv	98
76)	1,2-Dichlorobenzene	13.049	146	1216517	10.648	ppbv	98
77)	n-Butylbenzene	13.192	91	1968835	10.713	ppbv	96
78)	1,2,4-Trichlorobenzene	14.239	180	630894	8.847	ppbv	93
80)	Hexachlorobutadiene	14.567	225	864638	9.006	ppbv	95
82)	1,2-Dichlorotetrafluor...	4.401	85	2266892	10.016	ppbv	97
83)	Vinyl Chloride(sim)	4.515	62	810838	10.909	ppbv	100
84)	Bromomethane(sim)	4.865	94	815432	10.002	ppbv	96
85)	Trichlorofluoromethane...	5.603	101	3095394	12.020	ppbv#	99
86)	1,2-Dichloroethane(sim)	8.059	62	498796	8.389	ppbv	94
87)	1,1,1-Trichloroethane(...	8.221	97	810622	10.295	ppbv#	98
88)	Benzene(sim)	8.501	78	1014389	8.632	ppbv	94
89)	Carbon Tetrachloride(sim)	8.597	117	819981	11.542	ppbv	98
90)	1,1-Dichloroethene(sim)	6.046	61	1600551	11.394	ppbv	92
91)	Trichlorotrifluoroetha...	6.302	101	2155693	12.237	ppbv#	98
92)	Trans-1,2-Dichloroethe...	6.752	61	498583	8.645	ppbv	98
93)	1,1-Dichloroethane(sim)	6.883	63	691839	9.743	ppbv	99
94)	Cis-1,2-Dichloroethene...	7.413	61	495342	8.270	ppbv	90
95)	Chloroform(sim)	7.596	83	814528	9.864	ppbv	97
97)	1,2-dichloropropane(sim)	8.971	63	498840	9.486	ppbv	91
98)	Bromodichloromethane(sim)	9.090	83	815342	11.784	ppbv	99
99)	Trichloroethene(sim)	9.107	130	693993	10.493	ppbv	97
100)	1,4-Dioxane(sim)	9.112	88	243471	8.938	ppbv	95
101)	cis-1,3-Dichloropropen...	9.587	75	632826	10.817	ppbv	99
102)	1,1,2-Trichloroethane(...	9.989	97	453071	10.053	ppbv	96
103)	Dibromochloromethane(sim)	10.402	129	1081306	14.317	ppbv	100
104)	1,2-Dibromoethane(EDB)...	10.542	107	808258	10.849	ppbv	95
105)	Tetrachloroethene(sim)	10.781	166	919847	10.185	ppbv	98
107)	Bromoform(sim)	11.526	173	1079483	14.559	ppbv	100
108)	m,p-Xylene(sim)	11.438	91	2661440	17.636	ppbv	99
109)	1,1,2,2-Tetrachloroeth...	11.700	83	1247387	9.727	ppbv	99
112)	Benzyl chloride(sim)	12.782	91	1086928	15.960	ppbv	99
113)	1,3-Dichlorobenzene(sim)	12.798	146	1562153	11.145	ppbv	98
114)	1,4-Dichlorobenzene(sim)	12.833	146	1374769	11.451	ppbv	95
115)	sec-Butylbenzene(sim)	12.839	105	2826118	10.799	ppbv	98
116)	4-Isopropyltoluene(sim)	12.925	119	2521124	10.327	ppbv	98

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
Data File : 0307_04.D
Acq On : 7 Mar 2023 11:41 am
Operator :
Client ID : CN54092 LCS
Lab ID : CN54092 LCS
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 07 13:09:38 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration

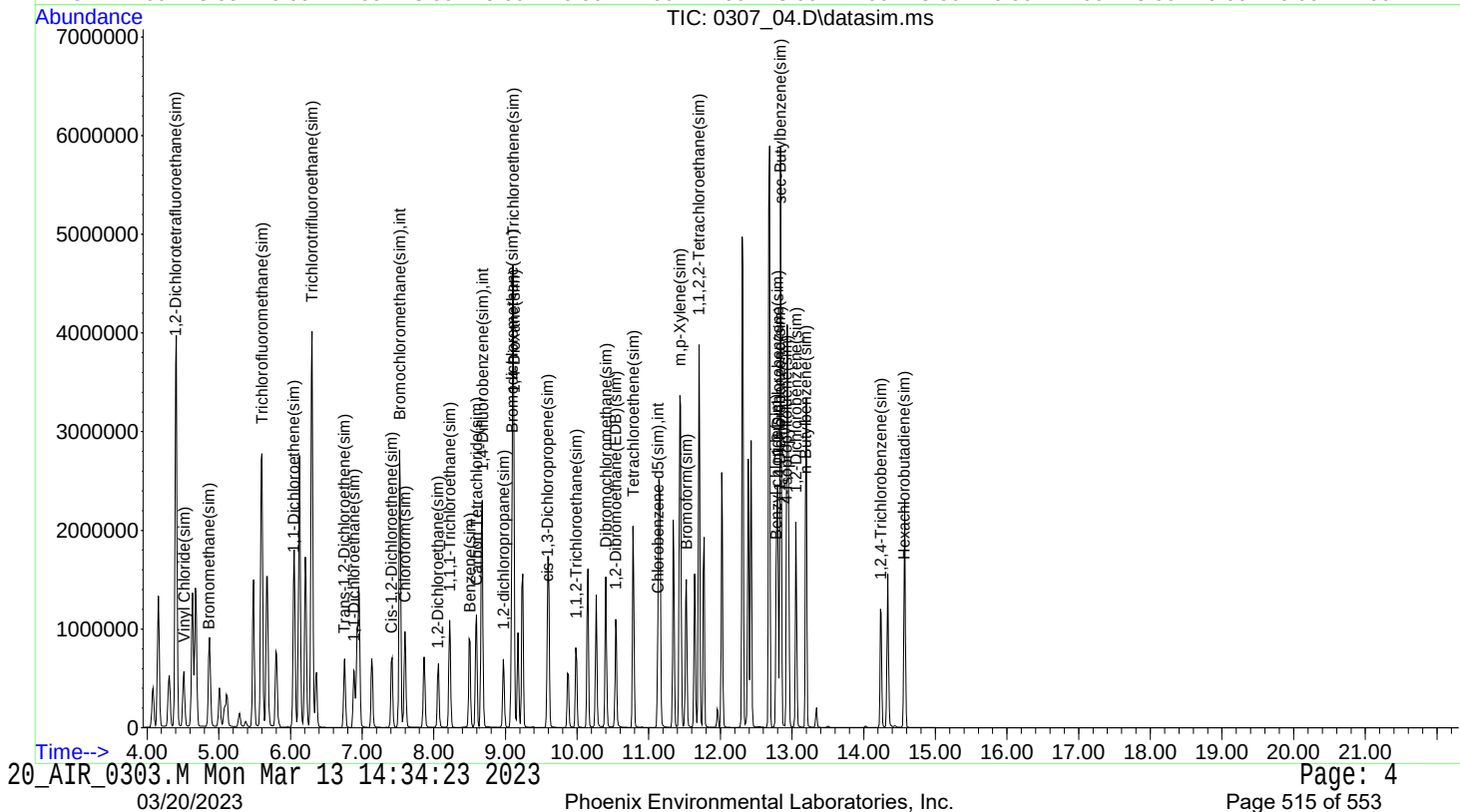
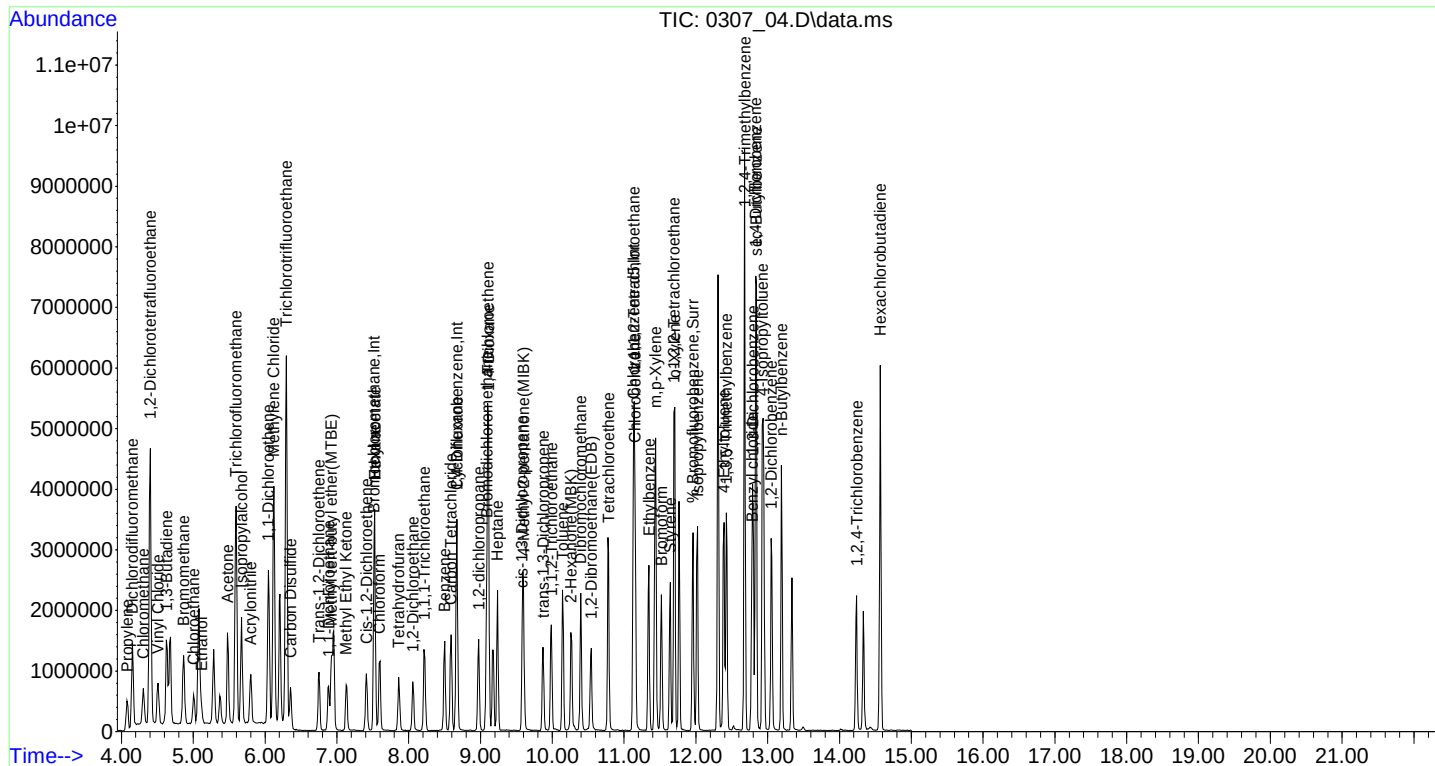
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
117]	1,2-Dichlorobenzene(sim)	13.054	146	1455836	10.464	ppbv	98
118]	n-Butylbenzene(sim)	13.192	91	1968835	10.238	ppbv	96
119]	1,2,4-Trichlorobenzene...	14.234	180	784894	10.191	ppbv	98
120]	Hexachlorobutadiene(sim)	14.567	225	864612	13.281	ppbv	95

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

(QT Reviewed)

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Data Path : H:\AIR2023\CHEM20\03MAR\06A\  
Data File : 0307_04.D  
Acq On : 7 Mar 2023 11:41 am  
Operator :  
Client ID : CN54092 LCS  
Lab ID : CN54092 LCS  
ALS Vial : 3 Sample Multiplier: 1
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Quant Time: Mar 07 13:09:38 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079 Lab Sample ID: CN54092 BL

Canister: BL Lab File ID: 0307_05.D

Instrument: CHEM20 Column: RTX-1 60M Date Received: 03/07/23

Purge Volume 200 (cc) Date Analyzed: 03/07/23

Matrix: AIR Dilution Factor: 1

CN54092 BLANK

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

CN54092 BLANK

Client: FPMGROUP Lab: Phoenix Env. Labs

SDG No.: GCN54079

Lab Sample ID: CN54092 BL

Canister: BL

Lab File ID: 0307_05.D

Instrument: CHEM20 Column: RTX-1 60M

Date Received: 03/07/23

Purge Volume 200 (cc)

Date Analyzed: 03/07/23

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

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_05.D
 Acq On : 7 Mar 2023 12:12 pm
 Operator :
 Client ID : CN54092 BLANK
 Lab ID : CN54092 BLANK
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 08 10:57:51 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.517	130	372709	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.671	114	1382601	10.000	ng	0.00
54) Chlorobenzene-d5	11.131	82	571976	10.000	ng	0.00
81) Bromochloromethane(sim)	7.523	130	425184	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.671	114	1383082	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.131	82	575441	10.000	ng	0.00

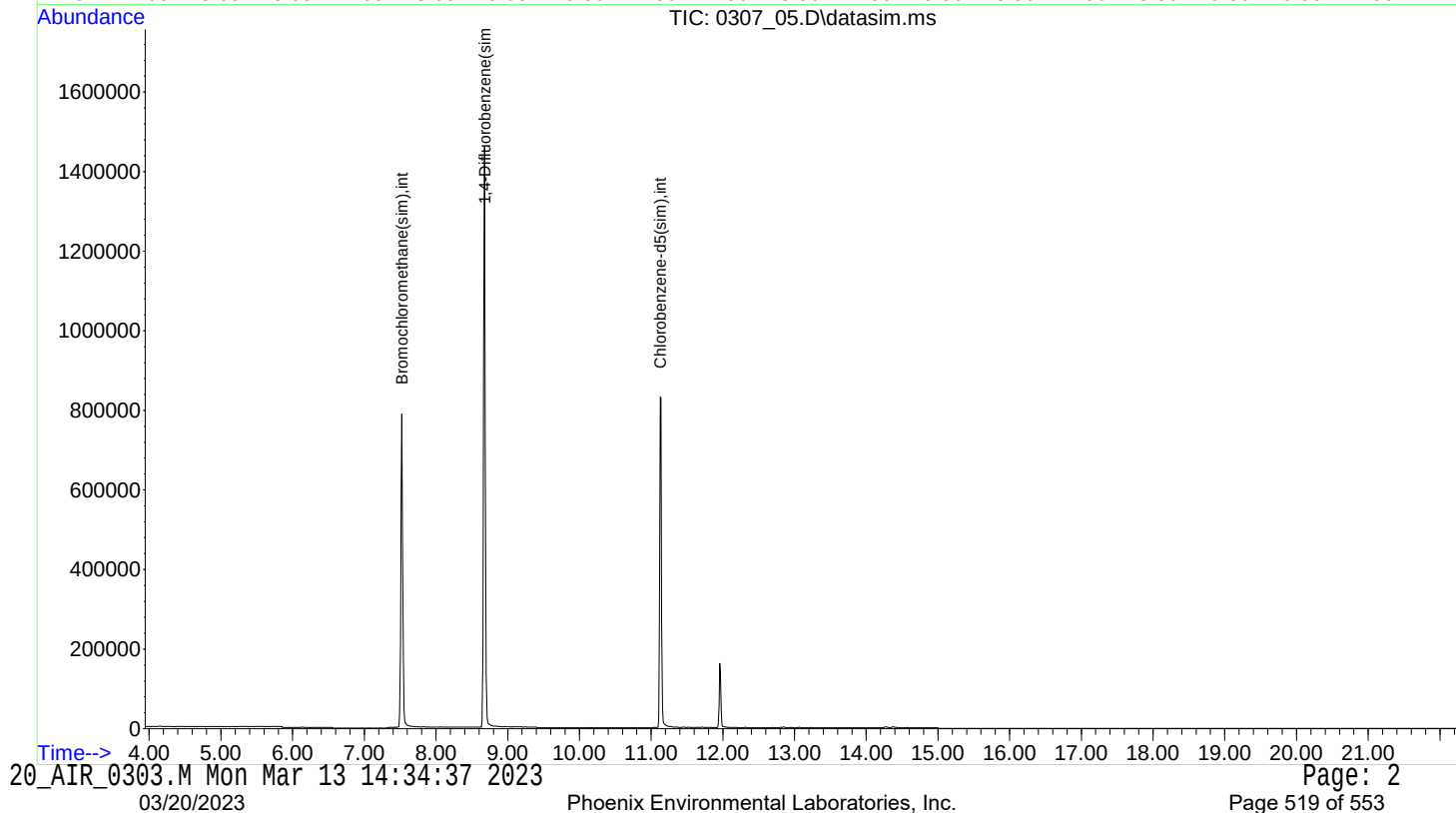
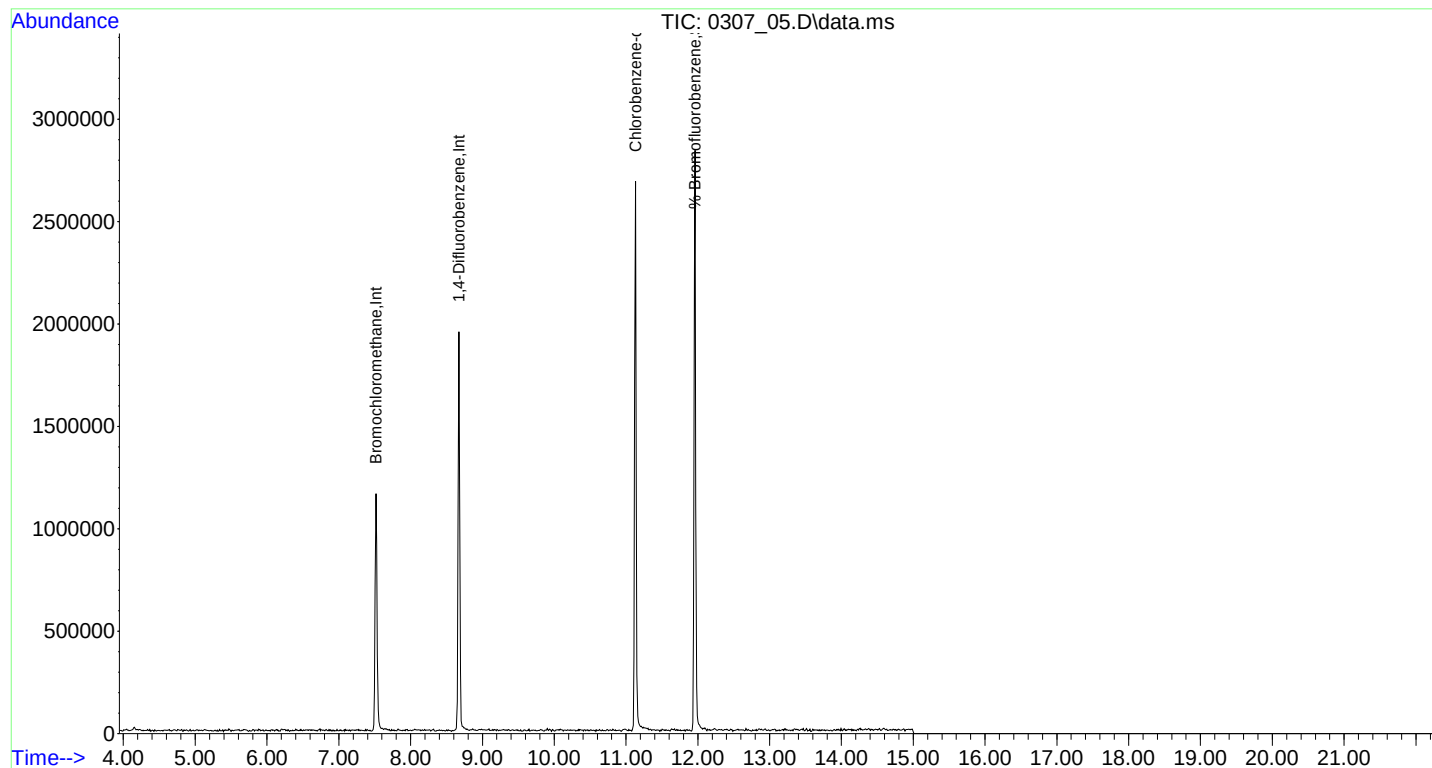
System Monitoring Compounds						
63) % Bromofluorobenzene	11.961	95	688027	11.019	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	110.20%

Target Compounds	Qvalue

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

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
Data File : 0307_05.D
Acq On : 7 Mar 2023 12:12 pm
Operator :
Client ID : CN54092 BLANK
Lab ID : CN54092 BLANK
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 08 10:57:51 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	IA-3 DUP
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54092 DUP</u>	
Canister:	<u>228</u>	Lab File ID:	<u>0307_28.D</u>	
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>	Date Received:
				<u>03/07/23</u>
Purge Volume	<u>200</u>	(cc)		Date Analyzed:
				<u>03/08/23</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	0.454		0.202	0.202	r
74-87-3	Chloromethane	0.575		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	5.96	S	0.531	0.531	r
67-64-1	Acetone	3.01	S	0.421	0.421	r
75-69-4	Trichlorofluoromethane	0.275		0.178	0.178	r
67-63-0	Isopropylalcohol	0.835	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	0.220	U	0.220	0.220	r
108-88-3	Toluene	0.653		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

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CN54092 DUP</u>
Canister:	<u>228</u>	Lab File ID:	<u>0307_28.D</u>
Instrument:	<u>CHEM20</u>	Column:	<u>RTX-1 60M</u>
Purge Volume	<u>200</u> (cc)	Date Received:	<u>03/07/23</u>
Matrix:	<u>AIR</u>	Date Analyzed:	<u>03/08/23</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)	0.076		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)	0.125		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)	0.306		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:\AIR2023\CHEM20\03MAR\06A\
 Data File : 0307_28.D
 Acq On : 8 Mar 2023 12:52 am
 Operator :
 Client ID : IA-3 DUP
 Lab ID : CN54092 DUP
 ALS Vial : 24 Sample Multiplier: 1

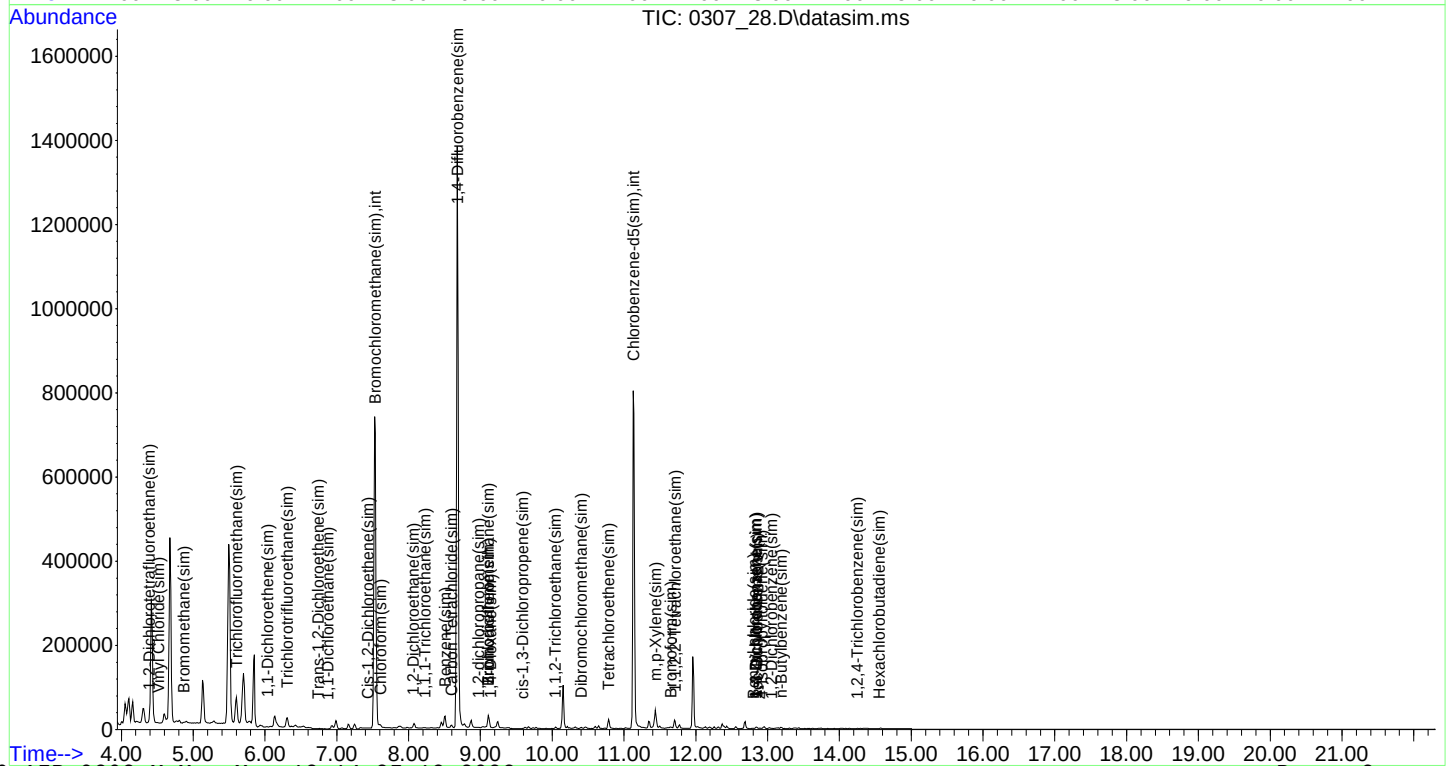
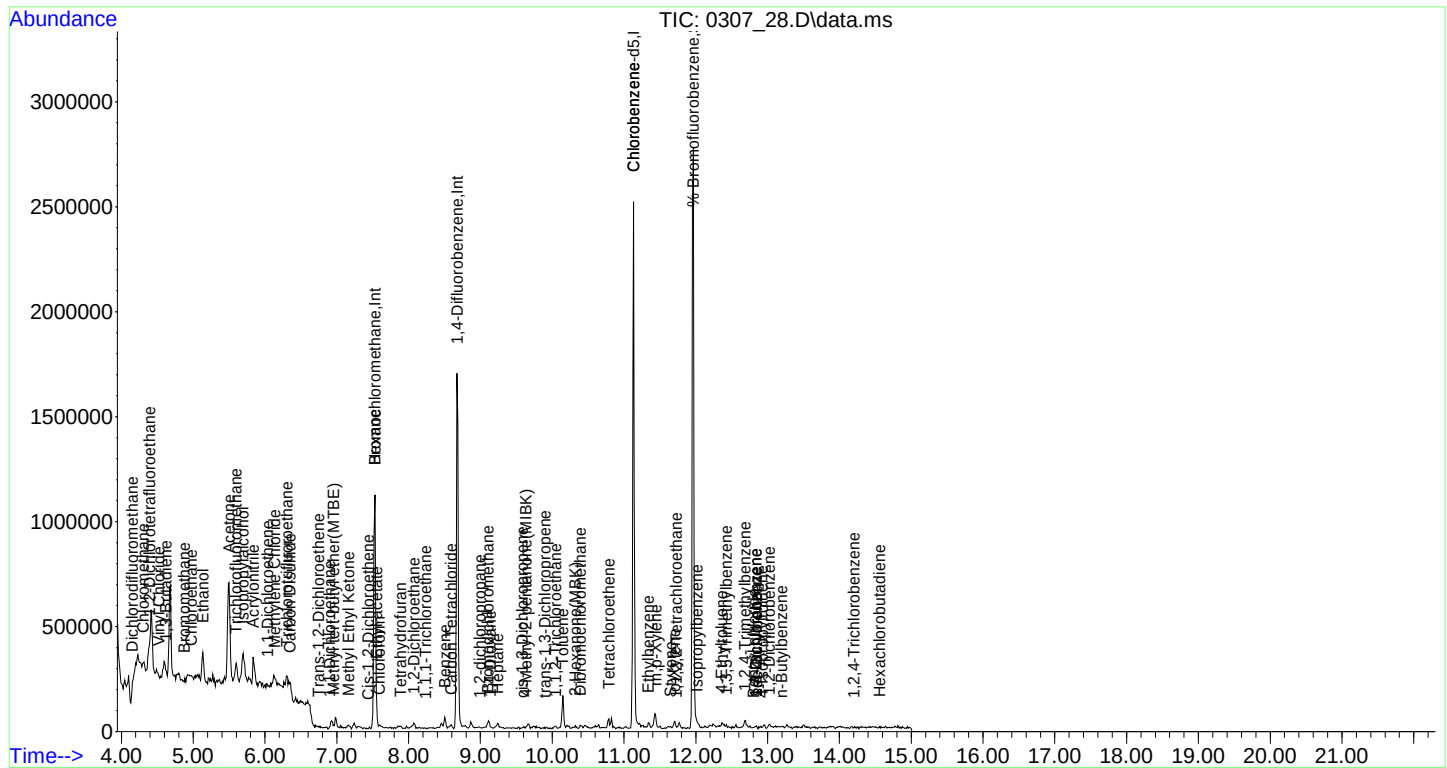
Quant Time: Mar 08 11:05:38 2023
 Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Fri Mar 03 12:06:33 2023
 Response via : Initial Calibration

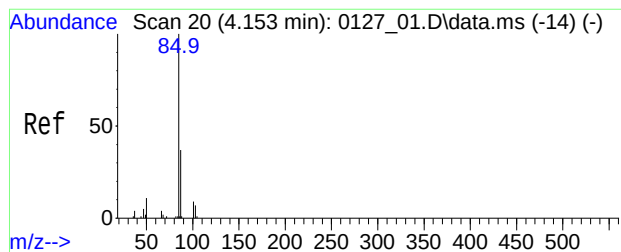
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.530	130	338089	10.000	ng	0.01
37) 1,4-Difluorobenzene	8.674	114	1266546	10.000	ng	0.00
54) Chlorobenzene-d5	11.134	82	549172	10.000	ng	0.00
81) Bromochloromethane(sim)	7.536	130	394944	10.000	ng	# 0.01
96) 1,4-Difluorobenzene(sim)	8.674	114	1266546	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.134	82	548820	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.964	95	668499	11.151	ppbv	0.00
Spiked Amount	10.000	Range 70 - 130		Recovery	= 111.50%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	4.153	85	53853	0.454	ppbv#	87
4) Chloromethane	4.304	50	34196	0.575	ppbv	96
11) Ethanol	5.134	45	140729	5.963	ppbv	94
12) Acetone	5.501	43	455460	3.009	ppbv#	87
13) Trichlorofluoromethane	5.598	101	65332	0.275	ppbv#	93
14) Isopropylalcohol	5.695	45	134730	0.835	ppbv#	92
35) Carbon Tetrachloride	8.594	117	3443	0.052	ppbv#	12
49) Toluene	10.147	91	82847	0.653	ppbv#	88
53) Tetrachloroethene	10.787	166	10543	0.163	ppbv#	73
58) m,p-Xylene	11.441	91	37293	0.348	ppbv	89
85) Trichlorofluoromethane...	5.603	101	64666	0.278	ppbv#	98
89) Carbon Tetrachloride(sim)	8.600	117	4853	0.076	ppbv	98
105) Tetrachloroethene(sim)	10.783	166	10494	0.125	ppbv	96
108) m,p-Xylene(sim)	11.441	91	37707	0.306	ppbv#	90

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

Data Path : H:\AIR2023\CHEM20\03MAR\06A\
Data File : 0307_28.D
Acq On : 8 Mar 2023 12:52 am
Operator :
Client ID : IA-3 DUP
Lab ID : CN54092 DUP
ALS Vial : 24 Sample Multiplier: 1

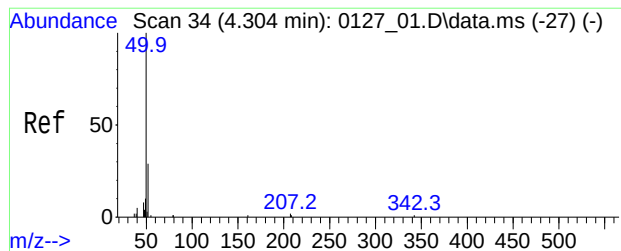
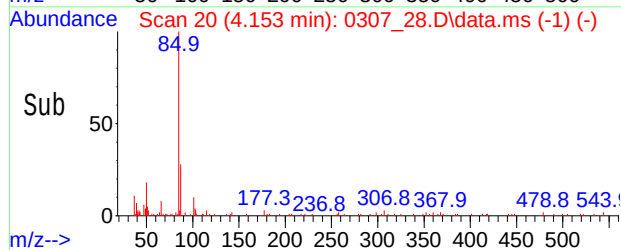
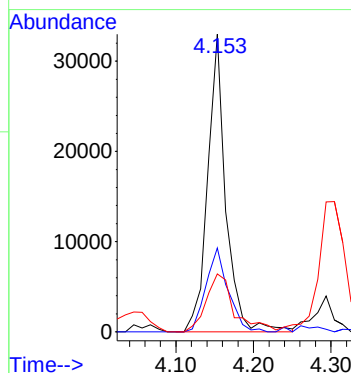
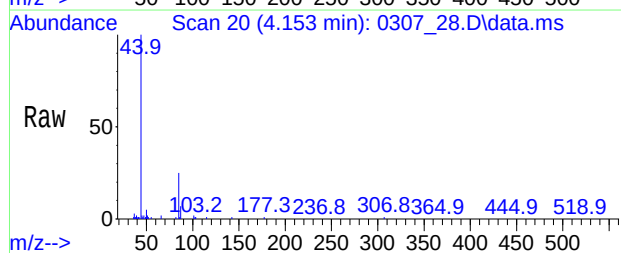
Quant Time: Mar 08 11:05:38 2023
Quant Method : H:\AIR2023\CHEM20\Methods\20_AIR_0303.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Fri Mar 03 12:06:33 2023
Response via : Initial Calibration





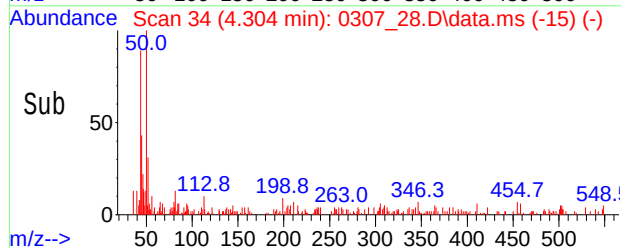
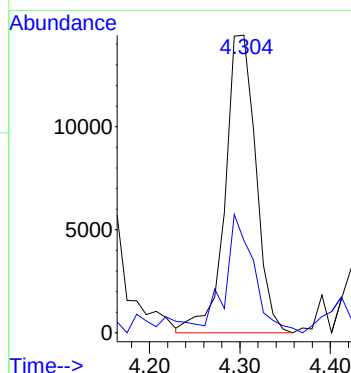
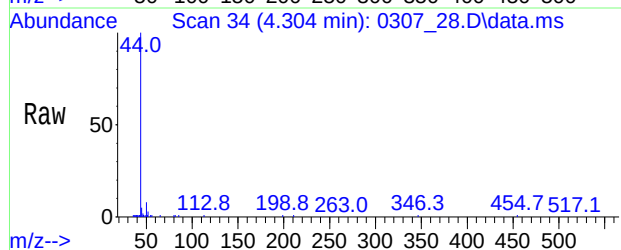
#3
Dichlorodifluoromethane
Conc: 8\$ 0.454 ppbv
RT: 4.153 min Scan# 20
Delta R.T. -0.000 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

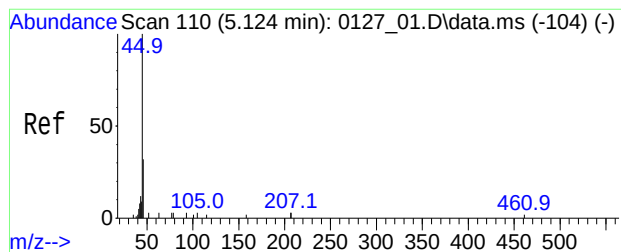
Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.3	25.3	37.9
50	29.9	14.1	21.1#



#4
Chloromethane
Conc: 8\$ 0.575 ppbv
RT: 4.304 min Scan# 34
Delta R.T. -0.000 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

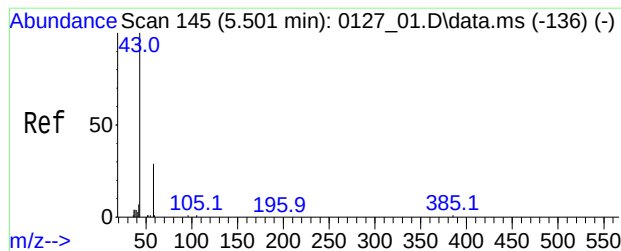
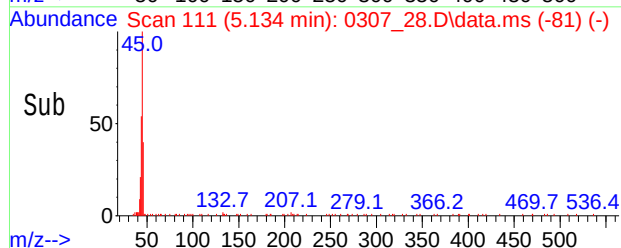
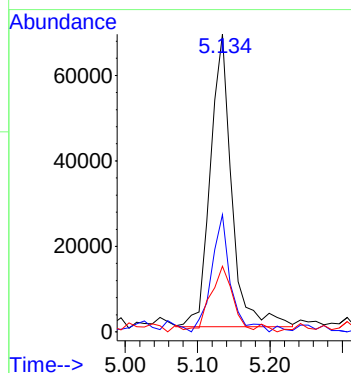
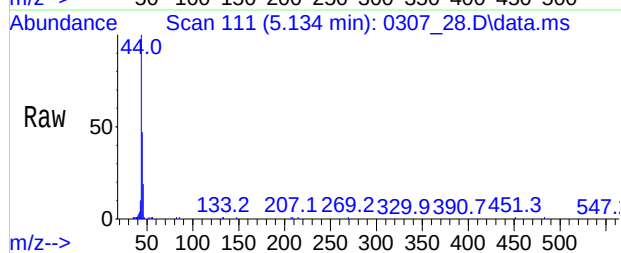
Tgt Ion	Ratio	Lower	Upper
50	100		
52	37.0	14.8	54.8





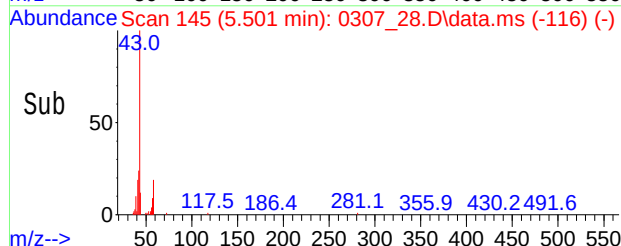
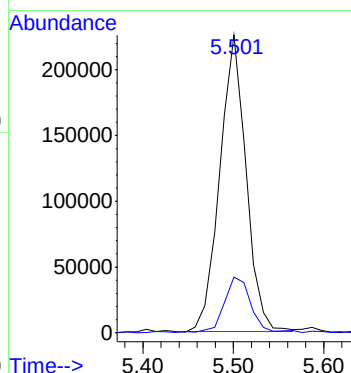
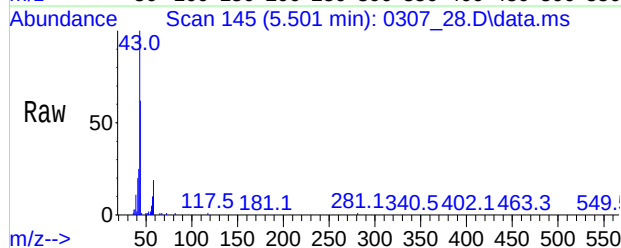
#11
Ethanol
Conc: 8\$ 5.963 ppbv
RT: 5.134 min Scan# 111
Delta R.T. 0.021 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

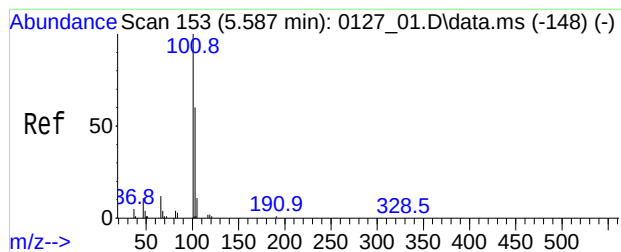
Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.7	26.4	39.6
43	21.5	14.6	22.0



#12
Acetone
Conc: 8\$ 3.009 ppbv
RT: 5.501 min Scan# 145
Delta R.T. 0.011 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

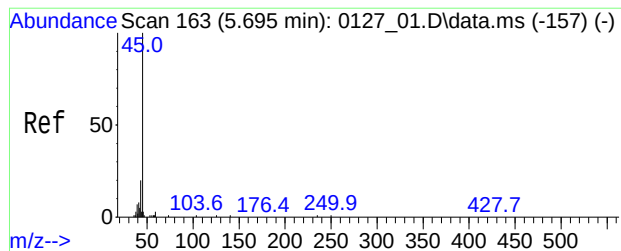
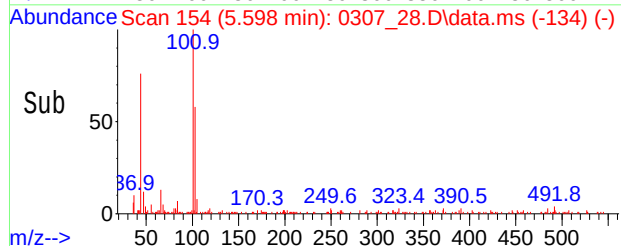
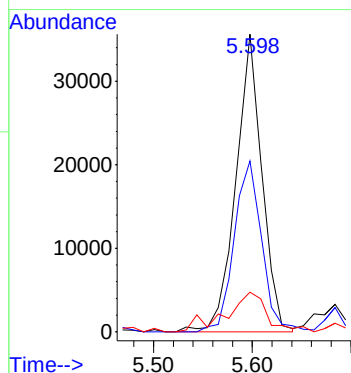
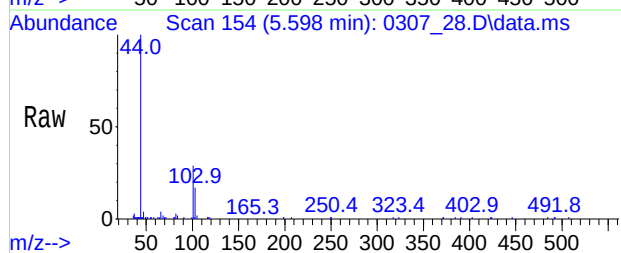
Tgt Ion	Ratio	Lower	Upper
43	100		
58	19.0	20.6	31.0#





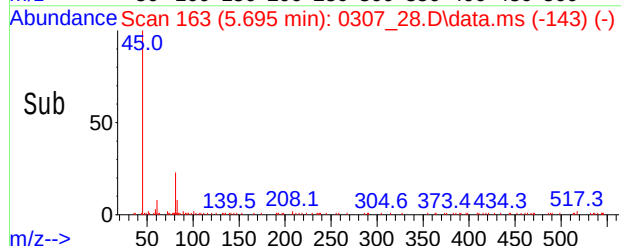
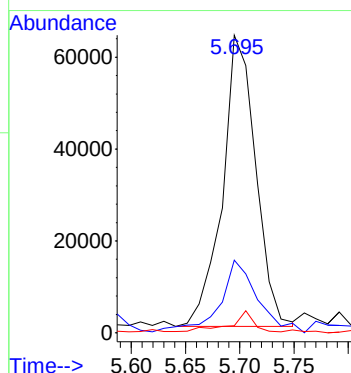
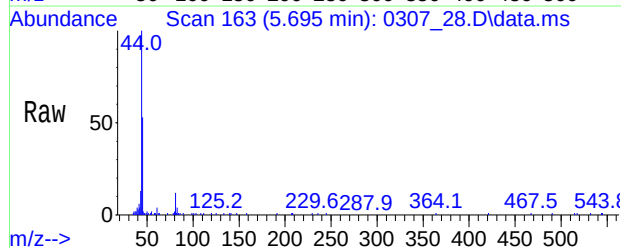
#13
Trichlorofluoromethane
Conc: 8\$ 0.275 ppbv
RT: 5.598 min Scan# 154
Delta R.T. 0.011 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

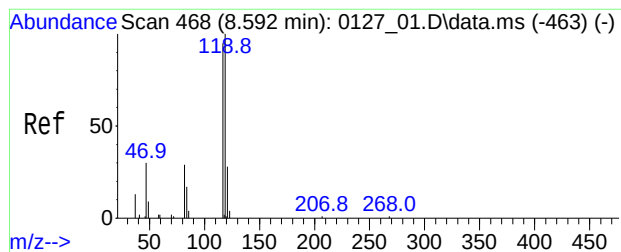
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	65332		
103	60.9	51.7	77.5	
66	21.1	11.2	16.8#	



#14
Isopropylalcohol
Conc: 8\$ 0.835 ppbv
RT: 5.695 min Scan# 163
Delta R.T. 0.011 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

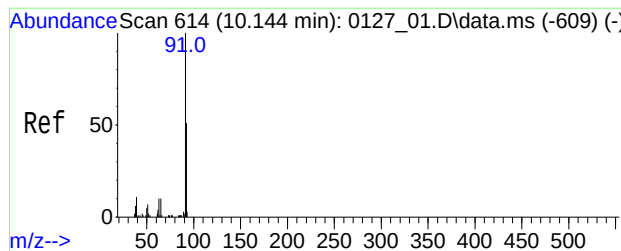
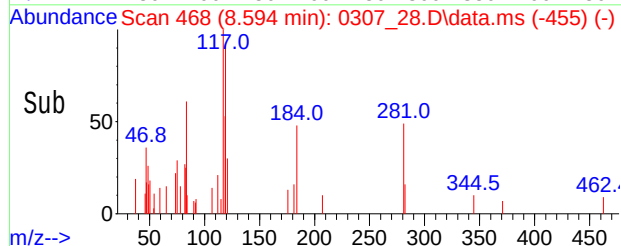
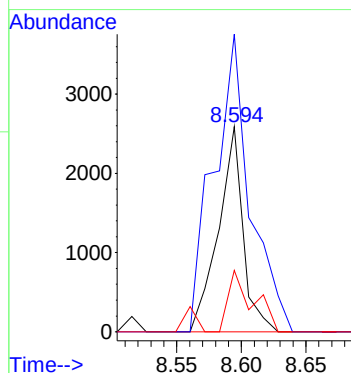
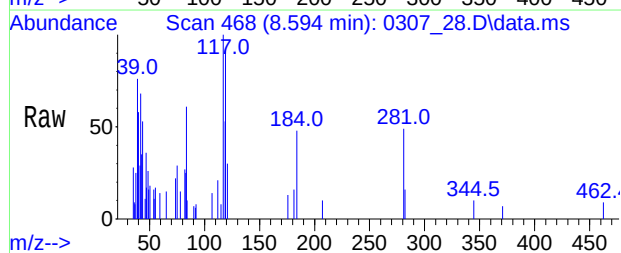
Tgt Ion	Ratio	Resp	Lower	Upper
45	100	134730		
43	28.7	19.6	29.4	
59	6.0	2.6	4.0#	





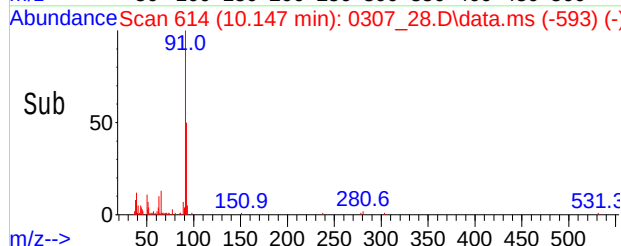
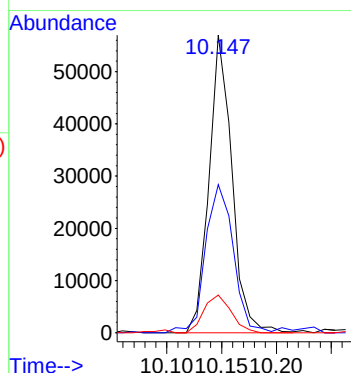
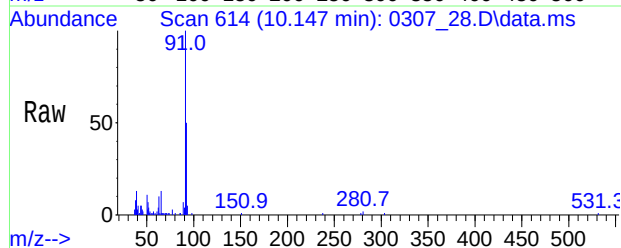
#35
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 8.594 min Scan# 468
Delta R.T. 0.002 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

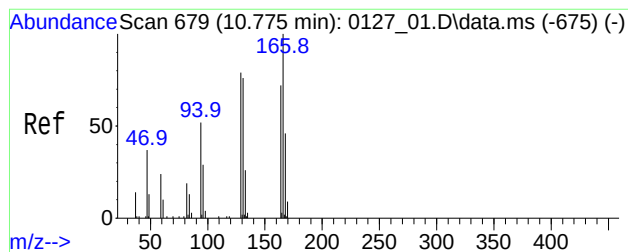
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	3443		
119	212.9	79.9	119.9#	
121	36.3	11.2	51.2	



#49
Toluene
Conc: 8\$ 0.653 ppbv
RT: 10.147 min Scan# 614
Delta R.T. 0.002 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

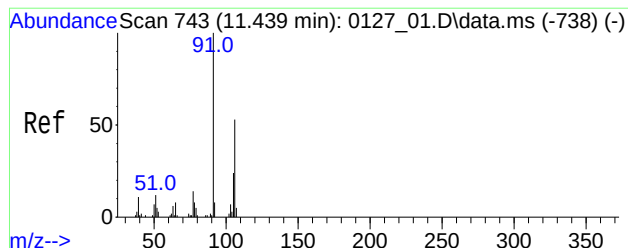
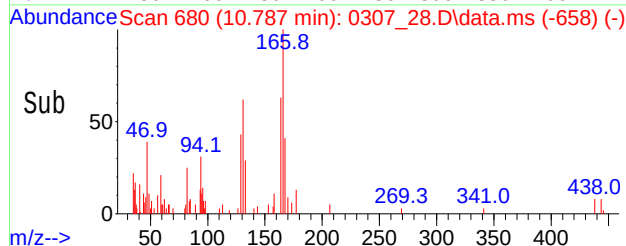
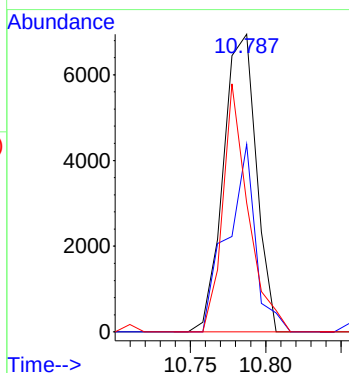
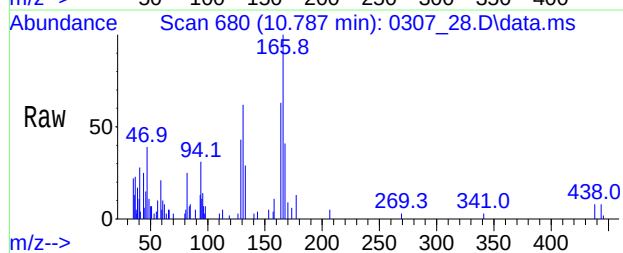
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	82847		
92	60.2	41.8	62.6	
65	15.1	8.2	12.2#	





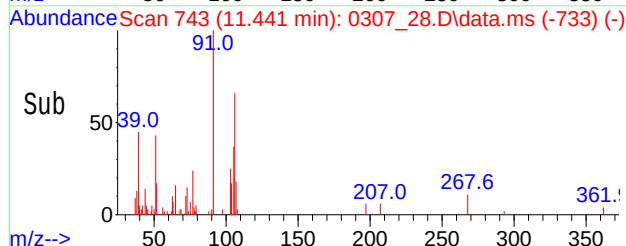
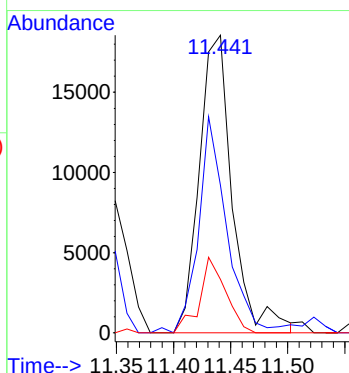
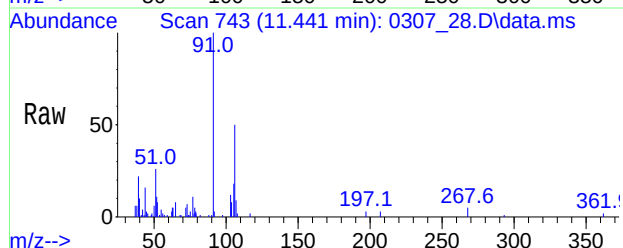
#53
Tetrachloroethene
Conc: 8\$ 0.163 ppbv
RT: 10.787 min Scan# 680
Delta R.T. 0.012 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

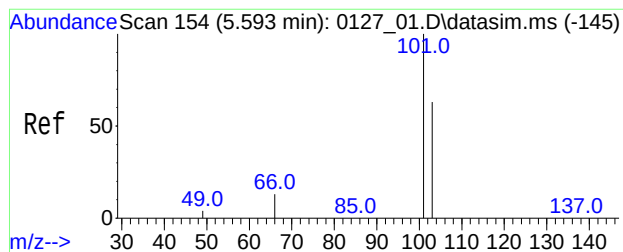
Tgt Ion	Ratio	Lower	Upper
166	100		
164	54.0	64.8	97.2#
129	64.6	68.7	103.1#



#58
m,p-Xylene
Conc: 8\$ 0.348 ppbv
RT: 11.441 min Scan# 743
Delta R.T. 0.002 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

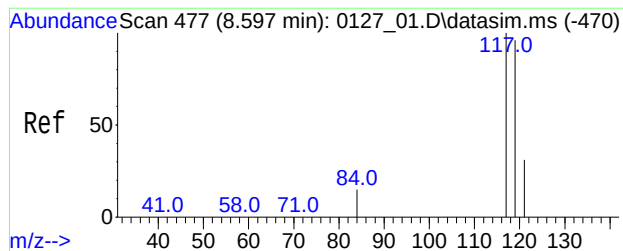
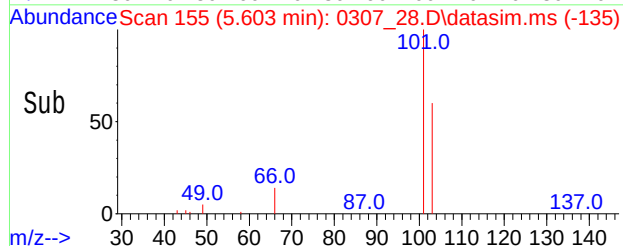
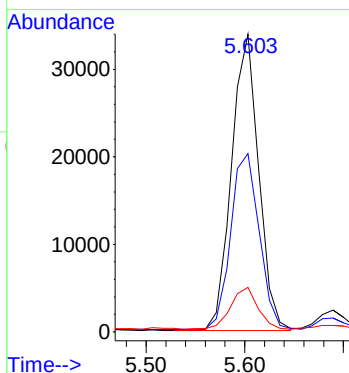
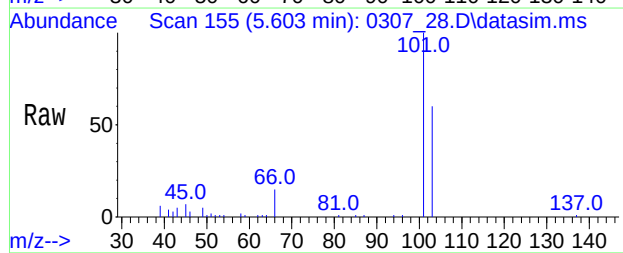
Tgt Ion	Ratio	Lower	Upper
91	100		
106	62.0	43.0	64.6
105	20.1	19.8	29.8





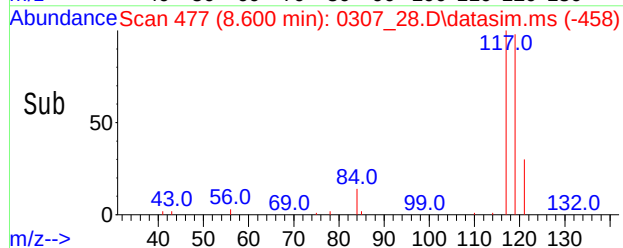
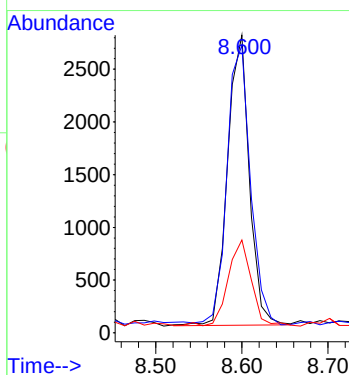
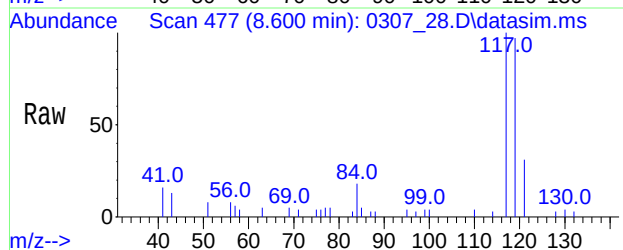
#85
Trichlorofluoromethane(sim)
Conc: 8\$ 0.278 ppbv
RT: 5.603 min Scan# 155
Delta R.T. 0.011 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

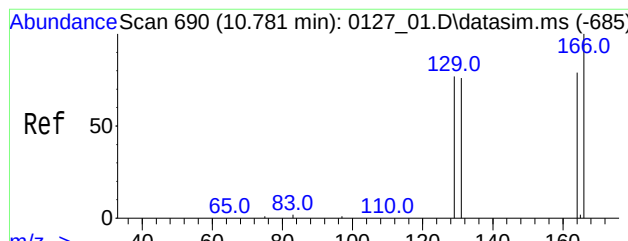
Tgt Ion	Ratio	Resp	Lower	Upper
101	100	64666		
103	62.9	51.1	76.7	
66	14.4	13.4	13.4#	



#89
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 8.600 min Scan# 477
Delta R.T. 0.014 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

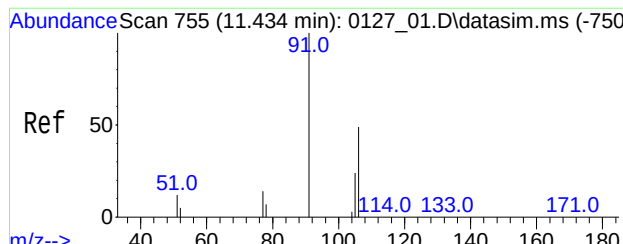
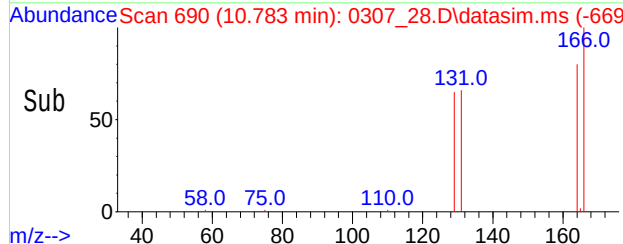
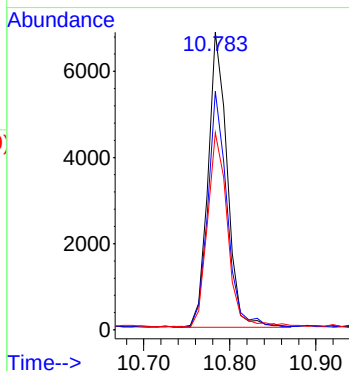
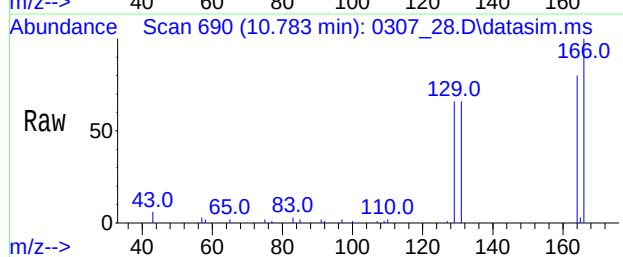
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	4853		
119	103.3	80.4	120.6	
121	32.4	25.8	38.8	





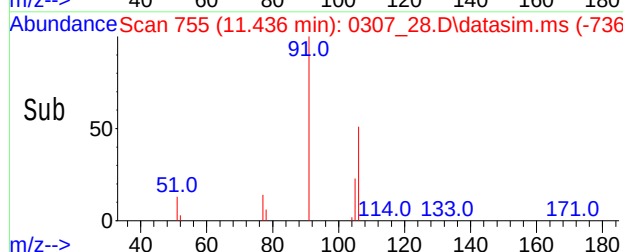
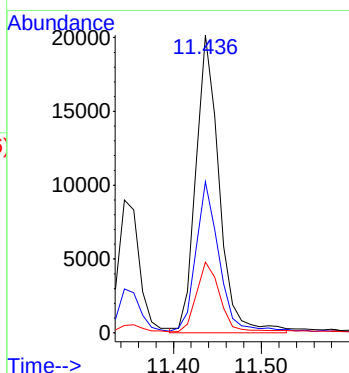
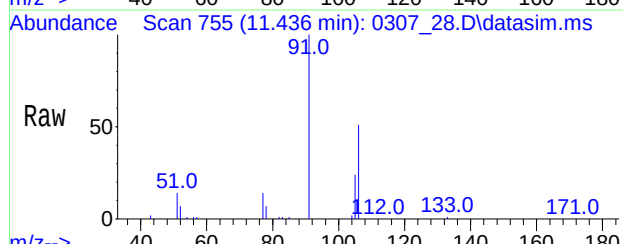
#105
Tetrachloroethene(sim)
Conc: 8\$ 0.125 ppbv
RT: 10.783 min Scan# 690
Delta R.T. 0.002 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

Tgt Ion	Ratio	Lower	Upper
166	100		
164	81.3	59.1	99.1
129	68.9	54.4	94.4



#108
m,p-Xylene(sim)
Conc: 8\$ 0.306 ppbv
RT: 11.441 min Scan# 755
Delta R.T. 0.002 min
Lab File: 0307_28.D
Acq: 8 Mar 2023 12:52 am

Tgt Ion	Ratio	Lower	Upper
91	100		
106	61.3	48.2	59.0#
105	19.9	19.6	29.4



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2837

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CANISTER BLK 2837
Canister:	CANBL	Lab File ID:	0218_06.D
Instrument:	CHEM39	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	02/18/23		

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
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
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	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 2837

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CANISTER BLK 2837
Canister:	CANBL	Lab File ID:	0218_06.D
Instrument:	CHEM39	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	02/18/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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
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)	0.037	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)	0.146	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

March 13, 2023

Batch Id: 2837

QC Canister Id: 827

SDG ID: GCN54079

Sample Canister Ids: 28563

Certification Date: 02/18/23 2:36 PM

Data File: H:\AIR2023\CHEM39\02FEB\18\0218_06.D\0218_06-39_AIR_0113.rr

Project ID: CINDERELLA 248 FLAT BUSH

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	1,2,4-Trimethylbenzene	<0.204
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	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isopropylalcohol	<0.407	Isopropylbenzene	<0.204
m,p-Xylene	<0.230	Methyl Ethyl Ketone	<0.339
Methyl tert-butyl ether(MTBE)	<0.278	Methylene Chloride	<0.863
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2023\CHEM39\02FEB\18\
 Data File : 0218_06.D
 Acq On : 18 Feb 2023 2:36 pm
 Operator :
 Client ID : CANISTER BLK 2837
 Lab ID : CANISTER BLK 2837
 ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 19 15:02:49 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0113.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Jan 16 09:24:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.529	130	286271	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1056677	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	434645	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	267363	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1056677	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	434645	10.000	ng	0.00

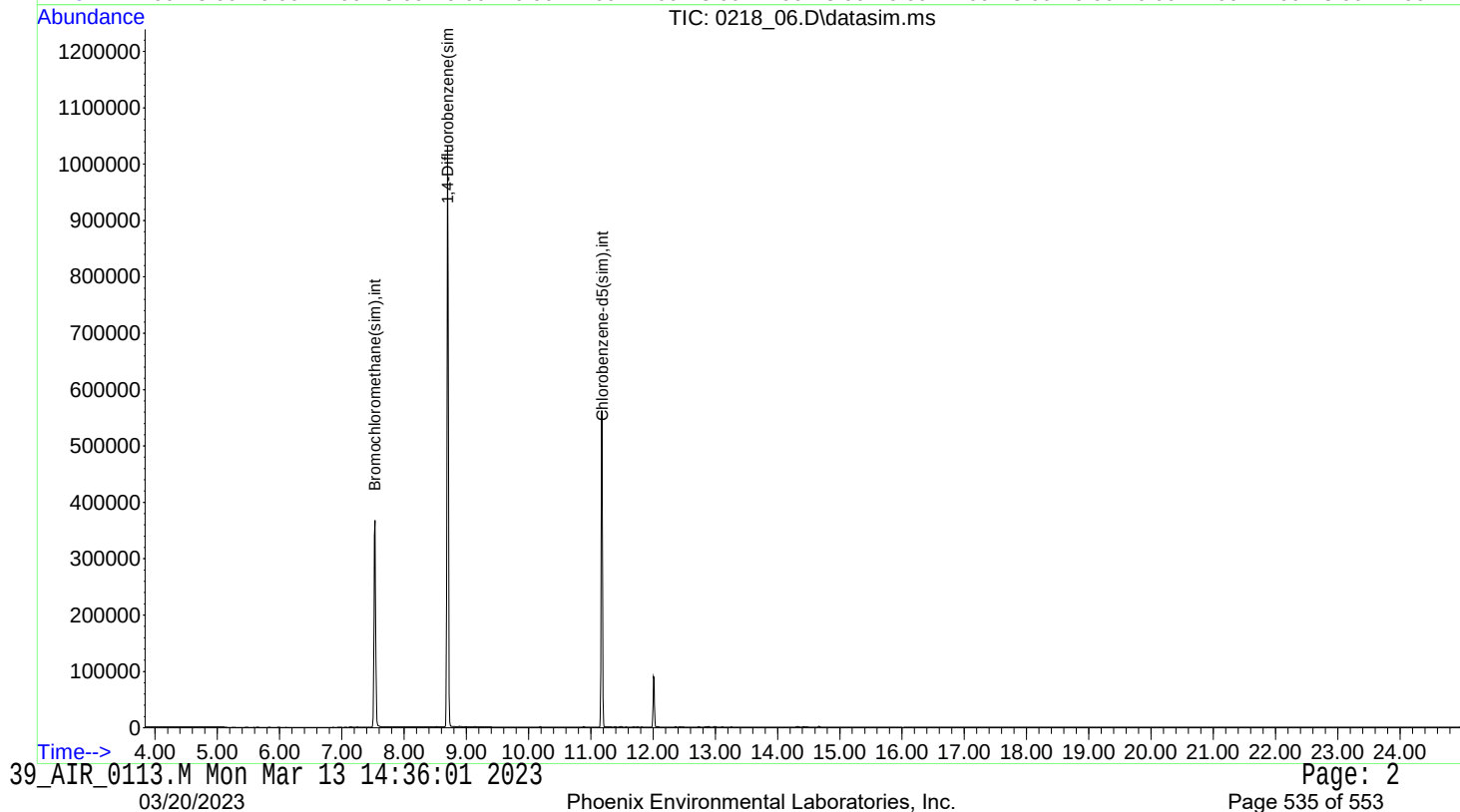
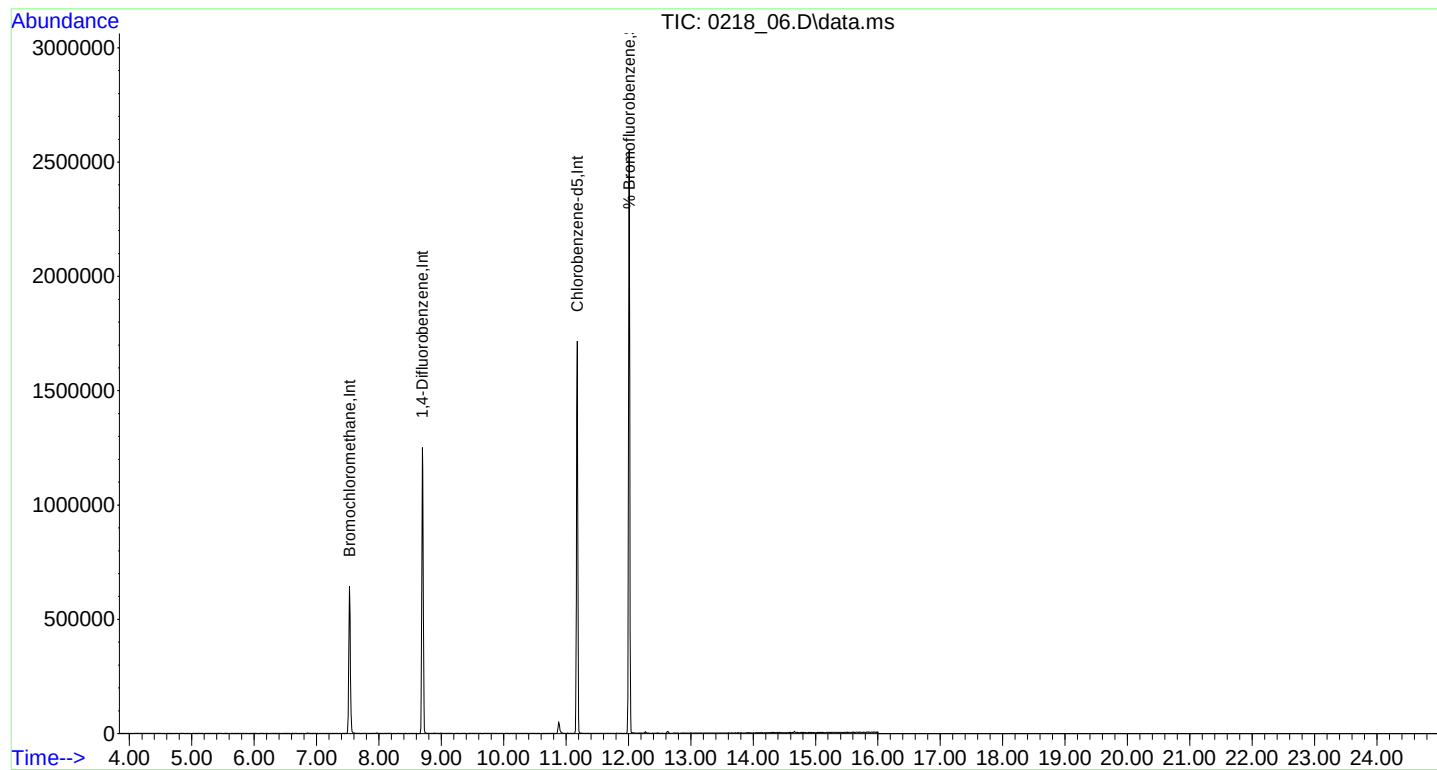
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	666086	10.351	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.50%

Target Compounds	Qvalue

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

Data Path : H:\AIR2023\CHEM39\02FEB\18\
Data File : 0218_06.D
Acq On : 18 Feb 2023 2:36 pm
Operator :
Client ID : CANISTER BLK 2837
Lab ID : CANISTER BLK 2837
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Feb 19 15:02:49 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0113.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Jan 16 09:24:33 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 2839

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CANISTER BLK 2839</u>
Canister:	<u>CANBL</u>	Lab File ID:	<u>0218_07.D</u>
Instrument:	<u>CHEM39</u>	Column:	<u></u>
		Date Received:	<u></u>
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/18/23</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	0.202	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
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
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	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 2839

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CANISTER BLK 2839
Canister:	CANBL	Lab File ID:	0218_07.D
Instrument:	CHEM39	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	02/18/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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
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)	0.037	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)	0.146	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

March 13, 2023

Batch Id: 2839

QC Canister Id: 853

SDG ID: GCN54079

Sample Canister Ids: 12857, 17161, 19786, 19816, 19844, 19931, 23338, 28603

Certification Date: 02/18/23 3:15 PM

Data File: H:\AIR2023\CHEM39\02FEB\18\0218_07.D\0218_07-39_AIR_0113.rr

Project ID: CINDERELLA 248 FLAT BUSH

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	1,2,4-Trimethylbenzene	<0.204
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	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isopropylalcohol	<0.407	Isopropylbenzene	<0.204
m,p-Xylene	<0.230	Methyl Ethyl Ketone	<0.339
Methyl tert-butyl ether(MTBE)	<0.278	Methylene Chloride	<0.863
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2023\CHEM39\02FEB\18\
 Data File : 0218_07.D
 Acq On : 18 Feb 2023 3:15 pm
 Operator :
 Client ID : CANISTER BLK 2839
 Lab ID : CANISTER BLK 2839
 ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 19 15:04:39 2023
 Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0113.M
 Quant Title : VOA Standards for 5 point calibration
 Qlast Update : Mon Jan 16 09:24:33 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.529	130	275242	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1024595	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	419231	10.000	ng	0.00
81) Bromochloromethane(sim)	7.524	130	260324	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1024595	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	419231	10.000	ng	0.00

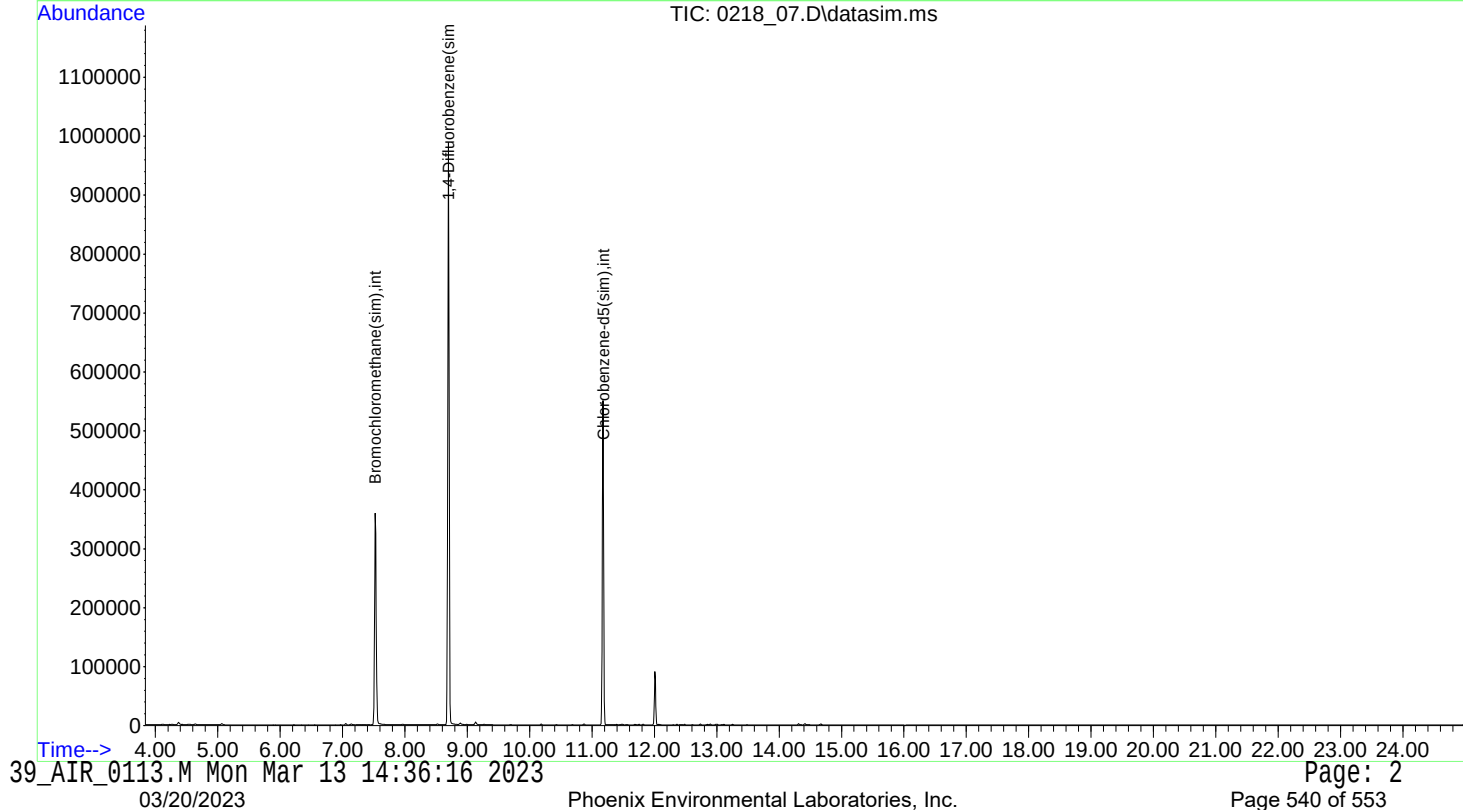
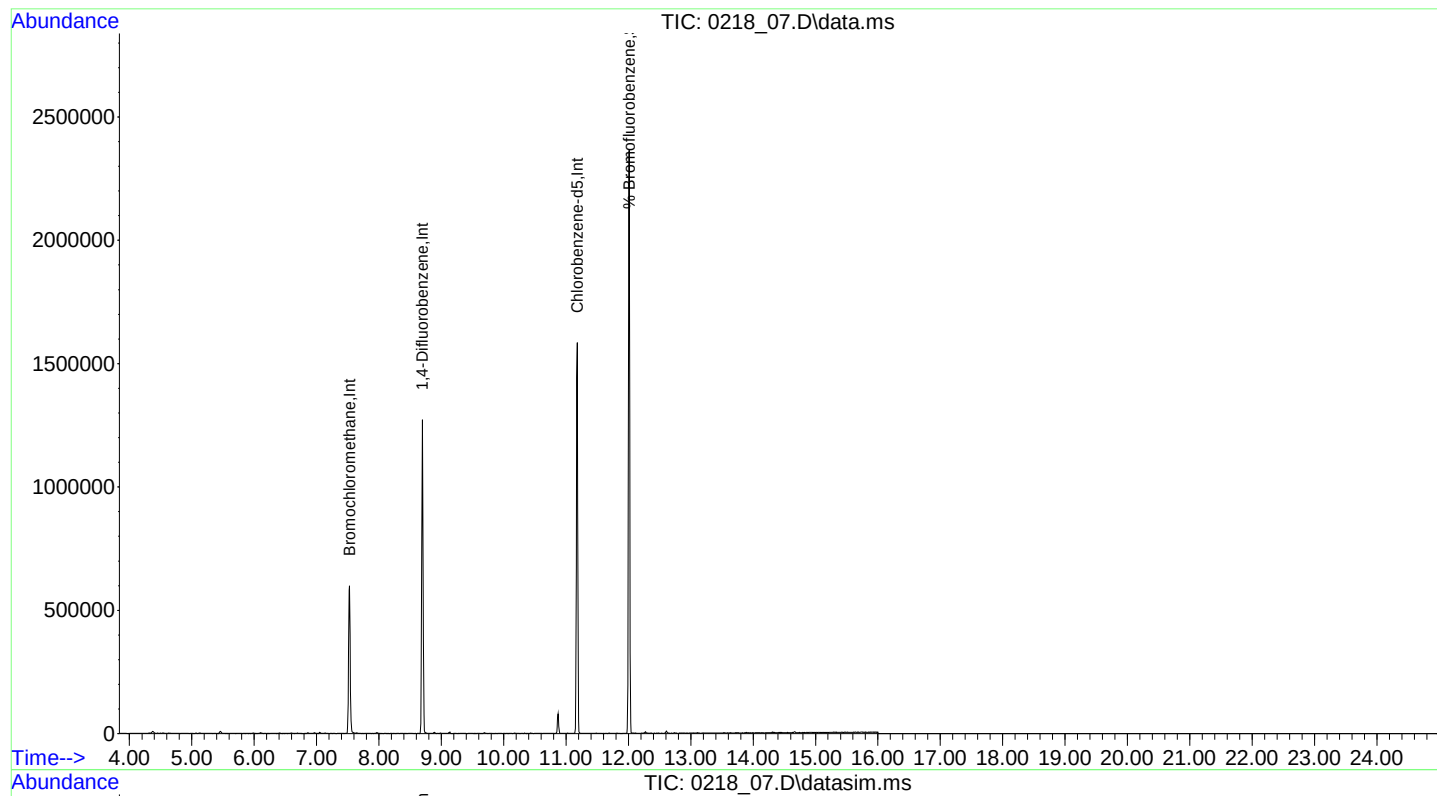
System Monitoring Compounds						
63) % Bromofluorobenzene	12.012	95	644763	10.388	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.90%

Target Compounds	Qvalue

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

Data Path : H:\AIR2023\CHEM39\02FEB\18\
Data File : 0218_07.D
Acq On : 18 Feb 2023 3:15 pm
Operator :
Client ID : CANISTER BLK 2839
Lab ID : CANISTER BLK 2839
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Feb 19 15:04:39 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0113.M
Quant Title : VOA Standards for 5 point calibration
Last Update : Mon Jan 16 09:24:33 2023
Response via : Initial Calibration



1
AIR ANALYSIS DATA SHEET

CLIENT ID

Client:	<u>FPMGROUP</u>	Lab:	<u>Phoenix Env. Labs</u>	CANISTER BLK 2840
SDG No.:	<u>GCN54079</u>	Lab Sample ID:	<u>CANISTER BLK 2840</u>	
Canister:	<u>CANBL</u>	Lab File ID:	<u>0218_08.D</u>	
Instrument:	<u>CHEM39</u>	Column:	<u></u>	Date Received:
Purge Volume	<u>200</u> (cc)	Date Analyzed:	<u>02/18/23</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	0.202	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
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
75-69-4	Trichlorofluoromethane(sim)	0.178	U	0.178	0.178	r
107-06-2	1,2-Dichloroethane(sim)	0.247	U	0.247	0.247	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 2840

Client:	FPMGROUP	Lab:	Phoenix Env. Labs
SDG No.:	GCN54079	Lab Sample ID:	CANISTER BLK 2840
Canister:	CANBL	Lab File ID:	0218_08.D
Instrument:	CHEM39	Column:	
Purge Volume	200	(cc)	
Matrix:	AIR	Dilution Factor:	1
Date Received:			
Date Analyzed:	02/18/23		

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	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
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)	0.037	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)	0.146	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

March 13, 2023

Batch Id: 2840

QC Canister Id: 710

SDG ID: GCN54079

Sample Canister Ids: 13652, 228, 23329, 23335, 23343

Certification Date: 02/18/23 3:54 PM

Data File: H:\AIR2023\CHEM39\02FEB\18\0218_08.D\0218_08-39_AIR_0113.rr

Project ID: CINDERELLA 248 FLAT BUSH

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	1,2,4-Trimethylbenzene	<0.204
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	1,3,5-Trimethylbenzene	<0.204
1,3-Butadiene	<0.452	1,3-Dichlorobenzene	<0.166
1,4-Dichlorobenzene	<0.166	1,4-Dioxane	<0.278
2-Hexanone(MBK)	<0.244	4-Ethyltoluene	<0.204
4-Isopropyltoluene	<0.182	4-Methyl-2-pentanone(MIBK)	<0.244
Acetone	<0.421	Acrylonitrile	<0.461
Benzene	<0.313	Benzyl chloride	<0.193
Bromodichloromethane	<0.149	Bromoform	<0.097
Bromomethane	<0.258	Carbon Disulfide	<0.321
Carbon Tetrachloride	<0.032	Chlorobenzene	<0.217
Chloroethane	<0.379	Chloroform	<0.205
Chloromethane	<0.485	Cis-1,2-Dichloroethene	<0.051
cis-1,3-Dichloropropene	<0.220	Cyclohexane	<0.291
Dibromochloromethane	<0.117	Dichlorodifluoromethane	<0.202
Ethanol	<0.531	Ethyl acetate	<0.278
Ethylbenzene	<0.230	Heptane	<0.244
Hexachlorobutadiene	<0.094	Hexane	<0.284
Isopropylalcohol	<0.407	Isopropylbenzene	<0.204
m,p-Xylene	<0.230	Methyl Ethyl Ketone	<0.339
Methyl tert-butyl ether(MTBE)	<0.278	Methylene Chloride	<0.863
n-Butylbenzene	<0.182	o-Xylene	<0.230
Propylene	<0.581	sec-Butylbenzene	<0.182
Styrene	<0.235	Tetrachloroethene	<0.037
Tetrahydrofuran	<0.339	Toluene	<0.266
Trans-1,2-Dichloroethene	<0.252	trans-1,3-Dichloropropene	<0.220
Trichloroethene	<0.037	Trichlorofluoromethane	<0.178
Trichlorotrifluoroethane	<0.131	Vinyl Chloride	<0.078

Data Path : H:\AIR2023\CHEM39\02FEB\18\
Data File : 0218_08.D
Acq On : 18 Feb 2023 3:54 pm
Operator :
Client ID : CANISTER BLK 2840
Lab ID : CANISTER BLK 2840
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 19 15:02:51 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0113.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Jan 16 09:24:33 2023
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	7.529	130	279117	10.000	ng	0.00
37) 1,4-Difluorobenzene	8.695	114	1026559	10.000	ng	0.00
54) Chlorobenzene-d5	11.178	82	418783	10.000	ng	0.00
81) Bromochloromethane(sim)	7.532	130	260534	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	8.695	114	1026559	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	11.178	82	418783	10.000	ng	0.00

System Monitoring Compounds

63) % Bromofluorobenzene	12.012	95	647574	10.445	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	104.40%

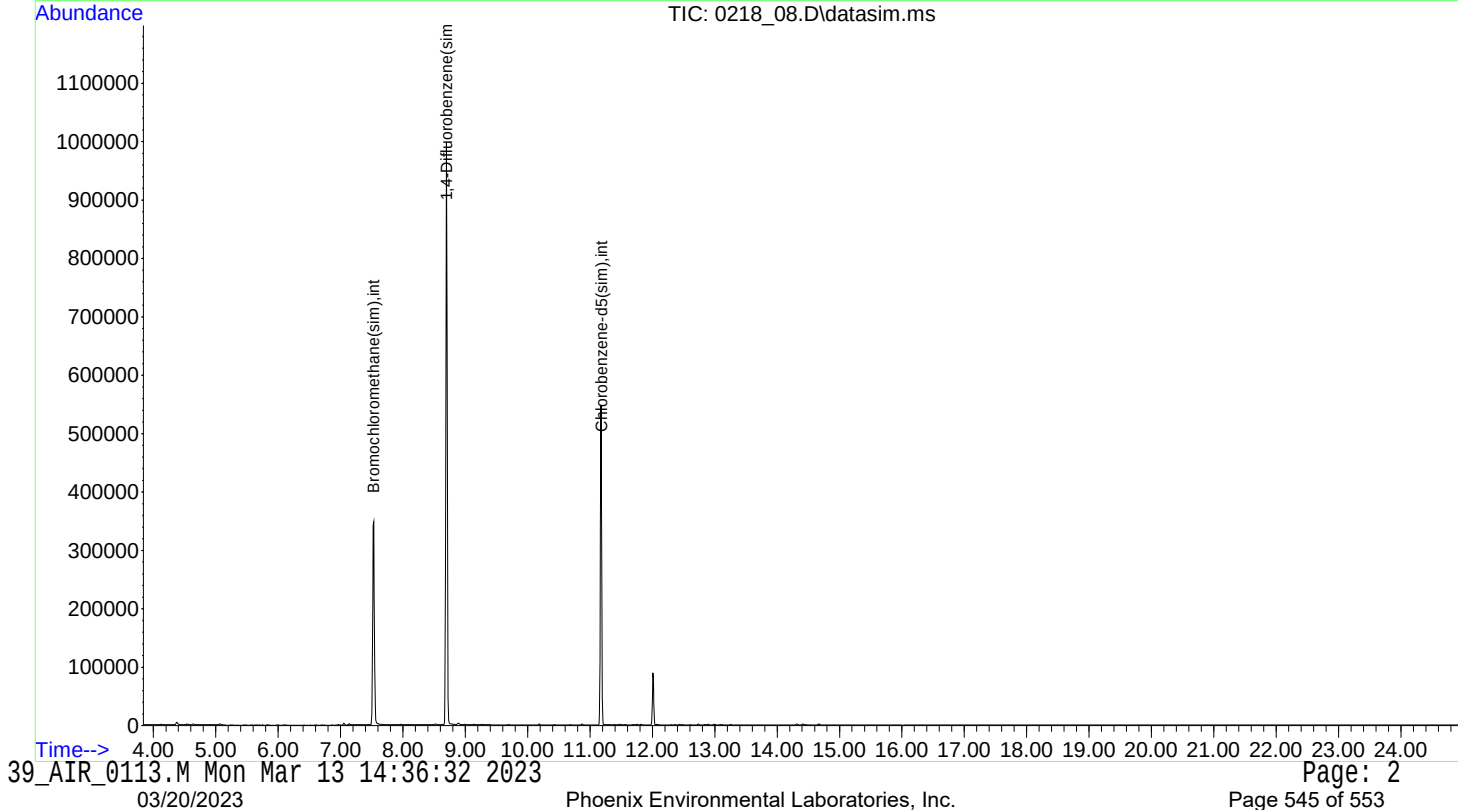
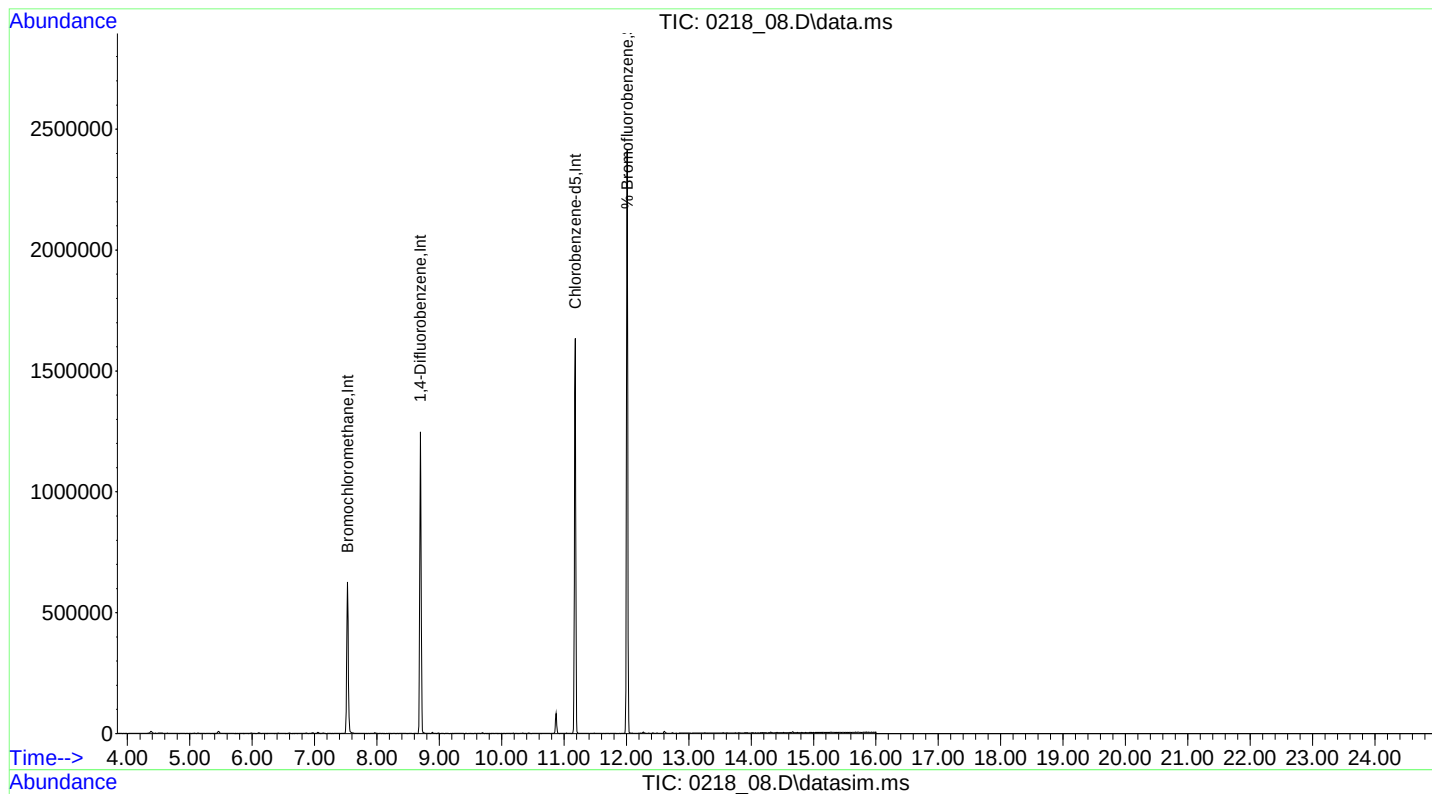
Target Compounds Qvalue

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

(QT Reviewed)

Data Path : H:\AIR2023\CHEM39\02FEB\18\
Data File : 0218_08.D
Acq On : 18 Feb 2023 3:54 pm
Operator :
Client ID : CANISTER BLK 2840
Lab ID : CANISTER BLK 2840
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Feb 19 15:02:51 2023
Quant Method : H:\AIR2023\CHEM39\Methods\39_AIR_0113.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Jan 16 09:24:33 2023
Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2023\CHEM20\03MAR\06A\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	27	0306_02.D	XXXXXXXXXX		03/06/23 11:53
2)	28	0306_03.D	XXXXXXXXXX		03/06/23 12:24
3)	29	0306_04.D	XXXXXXXXXX		03/06/23 12:55
4)	30	0306_05.D	XXXXXXXXXX		03/06/23 13:32
5)	31	0306_06.D	XXXXXXXXXX		03/06/23 14:05
6)	32	0306_07.D	XXXXXXXXXX		03/06/23 14:36
7)	33	0306_08.D	XXXXXXXXXX		03/06/23 15:23
8)	34	0306_09.D	XXXXXXXXXX		03/06/23 15:56
9)	35	0306_10.D	XXXXXXXXXX		03/06/23 16:30
10)	36	0306_11.D	XXXXXXXXXX		03/06/23 17:03
11)	37	0306_12.D	XXXXXXXXXX		03/06/23 17:36
12)	38	0306_13.D	XXXXXXXXXX		03/06/23 18:10
13)	39	0306_14.D	XXXXXXXXXX		03/06/23 19:36
14)	40	0306_15.D	XXXXXXXXXX		03/06/23 20:10
15)	41	0306_16.D	XXXXXXXXXX		03/06/23 20:53
16)	42	0306_17.D	XXXXXXXXXX		03/06/23 21:27
17)	43	0306_18.D	XXXXXXXXXX		03/06/23 22:00
18)	44	0306_19.D	XXXXXXXXXX		03/06/23 22:34
19)	44	0306_20.D	XXXXXXXXXX		03/06/23 23:08
20)	45	0306_21.D	XXXXXXXXXX		03/06/23 23:42
21)	46	0306_22.D	XXXXXXXXXX		03/07/23 0:16
22)	47	0306_23.D	XXXXXXXXXX		03/07/23 0:49
23)	48	0306_24.D	XXXXXXXXXX		03/07/23 1:23
24)	49	0306_25.D	XXXXXXXXXX		03/07/23 1:57
25)	50	0306_26.D	XXXXXXXXXX		03/07/23 2:31
26)	51	0306_27.D	XXXXXXXXXX		03/07/23 3:05
27)	52	0306_28.D	XXXXXXXXXX		03/07/23 3:39
28)	53	0306_29.D	XXXXXXXXXX		03/07/23 4:12
29)	54	0306_30.D	XXXXXXXXXX		03/07/23 4:44
30)	55	0306_31.D	XXXXXXXXXX		03/07/23 5:15
31)	56	0306_32.D	XXXXXXXXXX		03/07/23 5:46
32)	57	0306_33.D	XXXXXXXXXX		03/07/23 6:17
33)	58	0306_34.D	XXXXXXXXXX		03/07/23 8:38
34)	59	0306_35.D	XXXXXXXXXX		03/07/23 9:12
35)	1	0307_01.D	XXXXXXXXXX		03/07/23 9:47
36)	1	0307_02.D	CCAL 1 - BFB TUNE	1ppb ccal - 1ppb cc	03/07/23 10:37
37)	2	0307_03.D	XXXXXXXXXX		03/07/23 11:08
38)	3	0307_04.D	CN54092 LCS	CN54092 LCS	03/07/23 11:41
39)	4	0307_05.D	CN54092 BLANK	CN54092 BLANK	03/07/23 12:12
40)	4	0307_06.D	XXXXXXXXXX		03/07/23 12:43
41)	4	0307_07.D	XXXXXXXXXX		03/07/23 13:15
42)	4	0307_08.D	XXXXXXXXXX		03/07/23 13:48
43)	5	0307_09.D	XXXXXXXXXX		03/07/23 14:21
44)	6	0307_10.D	XXXXXXXXXX		03/07/23 14:54
45)	7	0307_11.D	XXXXXXXXXX		03/07/23 15:28
46)	8	0307_12.D	XXXXXXXXXX		03/07/23 16:01
47)	9	0307_13.D	XXXXXXXXXX		03/07/23 16:34
48)	10	0307_14.D	XXXXXXXXXX		03/07/23 17:07
49)	11	0307_15.D	XXXXXXXXXX		03/07/23 17:40
50)	12	0307_16.D	XXXXXXXXXX		03/07/23 18:13
51)	13	0307_17.D	XXXXXXXXXX		03/07/23 18:46
52)	14	0307_18.D	XXXXXXXXXX		03/07/23 19:19
53)	15	0307_19.D	XXXXXXXXXX		03/07/23 19:52
54)	16	0307_20.D	XXXXXXXXXX		03/07/23 20:25
55)	17	0307_21.D	XXXXXXXXXX		03/07/23 20:58
56)	18	0307_22.D	XXXXXXXXXX		03/07/23 21:32
57)	19	0307_23.D	XXXXXXXXXX		03/07/23 22:05
58)	20	0307_24.D	XXXXXXXXXX		03/07/23 22:38
59)	21	0307_25.D	XXXXXXXXXX		03/07/23 23:11
60)	22	0307_26.D	XXXXXXXXXX		03/07/23 23:44
61)	23	0307_27.D	IA-3	CN54092	03/08/23 0:18
62)	24	0307_28.D	IA-3 DUP	CN54092 DUP	03/08/23 0:52
63)	25	0307_29.D	XXXXXXXXXX		03/08/23 1:23
64)	26	0307_30.D	XXXXXXXXXX		03/08/23 1:54
65)	27	0307_31.D	XXXXXXXXXX		03/08/23 2:25
66)	28	0307_32.D	XXXXXXXXXX		03/08/23 8:42

67) 29 0307_33.D xxxxxxxxxxxx
68) 30 0307_34.D xxxxxxxxxxxx
69) 31 0307_35.D xxxxxxxxxxxx

03/08/23 9:16
03/08/23 9:47
03/08/23 10:18

Injection Log

Data Directory: H:\AIR2023\CHEM20\03MAR\02\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	5	0302_02.D	XXXXXXXXXX		03/02/23 13:32
2)	6	0302_03.D	BFB TUNE	0/0 ; ISTD AIR35A	03/02/23 14:03
3)	1	0302_04.D	XXXXXXXXXX		03/02/23 14:34
4)	2	0302_05.D	XXXXXXXXXX		03/02/23 15:05
5)	1	0302_06.D	ICAL 0.01	0.01 ppbV ; AirT0150	03/02/23 16:10
6)	2	0302_07.D	ICAL 0.02	0.02 ppbV ; AirT0150	03/02/23 16:41
7)	5	0302_08.D	ICAL 0.035	0.035 ppbV ; AirT015	03/02/23 17:13
8)	6	0302_09.D	ICAL 0.05	0.05 ppbV ; AirT0150	03/02/23 17:47
9)	7	0302_10.D	ICAL 0.1	0.10 ppbV ; AirT0150	03/02/23 18:18
10)	6	0302_11.D	ICAL 0.2	0.20 ppbV ; AirT0150	03/02/23 18:49
11)	7	0302_12.D	ICAL 0.5	0.50 ppbV ; AirT0150	03/02/23 19:22
12)	8	0302_13.D	ICAL 2.5	2.5 ppbV ; AirT01502	03/02/23 19:55
13)	9	0302_14.D	ICAL 5	5.0 ppbV ; AirT01501	03/02/23 20:26
14)	10	0302_15.D	ICAL 25	25 ppbV ; AirT01501Z	03/02/23 20:59
15)	11	0302_16.D	ICAL 40	40 ppbV ; AirT01501	03/02/23 21:34
16)	12	0302_17.D	ICAL 1	1.0 ppbV ; AirT01502	03/02/23 22:05
17)	13	0302_18.D	ICAL 10	10 ppbV ; AirT01501Z	03/02/23 22:36
18)	14	0302_19.D	XXXXXXXXXX		03/02/23 23:09
19)	1	0302_20.D	XXXXXXXXXX		03/02/23 23:41
20)	2	0302_21.D	XXXXXXXXXX		03/03/23 0:12
21)	3	0302_22.D	XXXXXXXXXX		03/03/23 0:46
22)	4	0302_23.D	XXXXXXXXXX		03/03/23 1:19
23)	5	0302_24.D	XXXXXXXXXX		03/03/23 1:53
24)	6	0302_25.D	XXXXXXXXXX		03/03/23 2:27
25)	7	0302_26.D	XXXXXXXXXX		03/03/23 3:01
26)	8	0302_27.D	XXXXXXXXXX		03/03/23 3:35
27)	9	0302_28.D	XXXXXXXXXX		03/03/23 4:09
28)	10	0302_29.D	XXXXXXXXXX		03/03/23 4:43
29)	11	0302_30.D	XXXXXXXXXX		03/03/23 5:14
30)	12	0302_31.D	XXXXXXXXXX		03/03/23 5:46
31)	13	0302_32.D	XXXXXXXXXX		03/03/23 6:17
32)	14	0302_33.D	XXXXXXXXXX		03/03/23 6:51
33)	15	0302_34.D	XXXXXXXXXX		03/03/23 7:25
34)	16	0302_35.D	XXXXXXXXXX		03/03/23 7:59
35)	17	0302_36.D	XXXXXXXXXX		03/03/23 8:30
36)	18	0302_37.D	XXXXXXXXXX		03/03/23 9:01
37)	19	0302_38.D	XXXXXXXXXX		03/03/23 9:32
38)	20	0302_39.D	XXXXXXXXXX		03/03/23 10:04
39)	21	0302_40.D	XXXXXXXXXX		03/03/23 10:35
40)	22	0302_41.D	XXXXXXXXXX		03/03/23 11:06
41)	23	0302_42.D	XXXXXXXXXX		03/03/23 12:51
42)	1	0303_01.D	XXXXXXXXXX		03/03/23 13:23
43)	2	0303_02.D	XXXXXXXXXX		03/03/23 13:54
44)	3	0303_03.D	XXXXXXXXXX		03/03/23 14:28
45)	4	0303_04.D	XXXXXXXXXX		03/03/23 14:58

Injection Log

Data Directory: H:\AIR2023\CHEM39\03MAR\02A\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0305_08.D	XXXXXXXXXX		N/A
2)	7	0302_01.D	BFB TUNE	0/0	03/02/23 16:22
3)	2	0302_02.D	ICAL 0.01	0.01 ; to1503p	03/02/23 16:58
4)	3	0302_03.D	ICAL 0.02	0.02 ; to1503p	03/02/23 17:35
5)	4	0302_04.D	ICAL 0.035	0.035 ; to1503p	03/02/23 18:13
6)	5	0302_05.D	ICAL 0.05	0.05 ; to1503p	03/02/23 18:52
7)	6	0302_06.D	ICAL 0.1	0.10 ; to1503q	03/02/23 19:28
8)	7	0302_07.D	ICAL 0.2	0.2 ; to1503q	03/02/23 20:05
9)	8	0302_08.D	ICAL 0.5	0.5 ; to1503q	03/02/23 20:43
10)	9	0302_09.D	ICAL 2.5	2.5 ; to1503r	03/02/23 21:22
11)	10	0302_10.D	ICAL 5	5.0 ; to1503s	03/02/23 21:59
12)	11	0302_11.D	ICAL 25	25 ; to1503s	03/02/23 23:36
13)	12	0302_12.D	ICAL 40	40 ; to1503s	03/03/23 0:18
14)	13	0302_13.D	ICAL 1	1.0 ; to1503r	03/03/23 0:55
15)	14	0302_14.D	ICAL 10	10 ; to1503s	03/03/23 1:32
16)	15	0302_15.D	XXXXXXXXXX		03/03/23 2:10
17)	16	0302_16.D	XXXXXXXXXX		03/03/23 2:45
18)	17	0302_17.D	XXXXXXXXXX		03/03/23 3:24
19)	18	0302_18.D	XXXXXXXXXX		03/03/23 4:04
20)	19	0302_19.D	XXXXXXXXXX		03/03/23 4:43
21)	20	0302_20.D	XXXXXXXXXX		03/03/23 5:27
22)	21	0302_21.D	XXXXXXXXXX		03/03/23 6:06
23)	22	0302_22.D	XXXXXXXXXX		03/03/23 6:45
24)	23	0302_23.D	XXXXXXXXXX		03/03/23 7:24
25)	24	0302_24.D	XXXXXXXXXX		03/03/23 7:59
26)	25	0302_25.D	XXXXXXXXXX		03/03/23 8:42
27)	26	0302_26.D	XXXXXXXXXX		03/03/23 9:25
28)	27	0302_27.D	XXXXXXXXXX		03/03/23 10:09
29)	28	0302_28.D	XXXXXXXXXX		03/03/23 10:52
30)	29	0302_29.D	XXXXXXXXXX		03/03/23 11:35
31)	30	0302_30.D	XXXXXXXXXX		03/03/23 12:18
32)	31	0302_31.D	XXXXXXXXXX		03/03/23 13:02
33)	32	0301_01.D	XXXXXXXXXX		03/03/23 13:36
34)	32	0303_01.D	XXXXXXXXXX		03/03/23 13:36
35)	33	0301_02.D	XXXXXXXXXX		03/03/23 14:13
36)	33	0303_02.D	XXXXXXXXXX		03/03/23 14:13
37)	34	0301_03.D	XXXXXXXXXX		03/03/23 14:50
38)	34	0303_03.D	XXXXXXXXXX		03/03/23 14:50
39)	35	0303_04.D	XXXXXXXXXX		03/03/23 15:29
40)	1	0303_05.D	XXXXXXXXXX		03/03/23 16:03
41)	2	0303_06.D	XXXXXXXXXX		03/03/23 16:46
42)	3	0303_07.D	XXXXXXXXXX		03/03/23 17:29
43)	4	0303_08.D	XXXXXXXXXX		03/03/23 18:12
44)	5	0303_09.D	XXXXXXXXXX		03/03/23 18:55
45)	6	0303_10.D	XXXXXXXXXX		03/03/23 19:39
46)	7	0303_11.D	XXXXXXXXXX		03/03/23 20:21
47)	8	0303_12.D	XXXXXXXXXX		03/03/23 21:04
48)	9	0303_13.D	XXXXXXXXXX		03/03/23 21:47
49)	10	0303_14.D	XXXXXXXXXX		03/03/23 22:30
50)	11	0303_15.D	XXXXXXXXXX		03/03/23 23:13
51)	12	0303_16.D	XXXXXXXXXX		03/03/23 23:56
52)	13	0303_17.D	XXXXXXXXXX		03/04/23 0:39
53)	14	0303_18.D	XXXXXXXXXX		03/04/23 1:15
54)	15	0303_19.D	XXXXXXXXXX		03/04/23 1:58
55)	16	0303_20.D	XXXXXXXXXX		03/04/23 2:41
56)	33	0304_01.D	XXXXXXXXXX		03/04/23 9:18
57)	34	0304_02.D	XXXXXXXXXX		03/04/23 9:55
58)	35	0304_03.D	XXXXXXXXXX		03/04/23 10:34
59)	1	0304_04.D	XXXXXXXXXX		03/04/23 11:08
60)	16	0304_05.D	XXXXXXXXXX		03/04/23 11:52
61)	17	0304_06.D	XXXXXXXXXX		03/04/23 12:35
62)	17	0304_07.D	XXXXXXXXXX		03/04/23 13:19
63)	18	0304_08.D	XXXXXXXXXX		03/04/23 14:08
64)	19	0304_09.D	XXXXXXXXXX		03/04/23 14:52
65)	20	0304_10.D	XXXXXXXXXX		03/04/23 15:35
66)	20	0304_11.D	XXXXXXXXXX		03/04/23 16:12

67)	21	0304_12.D	XXXXXXXXXX	03/04/23	16:50
68)	22	0304_13.D	XXXXXXXXXX	03/04/23	17:34
69)	23	0304_14.D	XXXXXXXXXX	03/04/23	18:13
70)	1	0304_15.D	XXXXXXXXXX	03/04/23	18:52
71)	2	0304_16.D	XXXXXXXXXX	03/04/23	19:32
72)	3	0304_17.D	XXXXXXXXXX	03/04/23	20:11
73)	4	0304_18.D	XXXXXXXXXX	03/04/23	20:51
74)	5	0304_19.D	XXXXXXXXXX	03/04/23	21:28
75)	6	0304_20.D	XXXXXXXXXX	03/04/23	22:07
76)	7	0304_21.D	XXXXXXXXXX	03/04/23	22:47
77)	8	0304_22.D	XXXXXXXXXX	03/04/23	23:27
78)	9	0304_23.D	XXXXXXXXXX	03/05/23	0:06
79)	10	0304_24.D	XXXXXXXXXX	03/05/23	0:46
80)	11	0304_25.D	XXXXXXXXXX	03/05/23	1:25
81)	12	0304_26.D	XXXXXXXXXX	03/05/23	2:05
82)	13	0304_27.D	XXXXXXXXXX	03/05/23	2:44
83)	14	0305_01.D	XXXXXXXXXX	03/05/23	3:19
84)	15	0305_02.D	XXXXXXXXXX	03/05/23	3:55
85)	16	0305_03.D	XXXXXXXXXX	03/05/23	4:32
86)	17	0305_04.D	XXXXXXXXXX	03/05/23	5:11
87)	18	0305_05.D	XXXXXXXXXX	03/05/23	5:46
88)	19	0305_06.D	XXXXXXXXXX	03/05/23	6:22
89)	20	0305_07.D	XXXXXXXXXX	03/05/23	7:01

Injection Log

Data Directory: H:\AIR2023\CHEM39\02FEB\18\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0218_35.D	XXXXXXXXXX		N/A
2)	28	0218_01.D	XXXXXXXXXX		02/18/23 11:26
3)	29	0218_02.D	XXXXXXXXXX		02/18/23 12:03
4)	30	0218_03.D	XXXXXXXXXX		02/18/23 12:47
5)	31	0218_04.D	XXXXXXXXXX		02/18/23 13:22
6)	32	0218_05.D	XXXXXXXXXX		02/18/23 13:58
7)	33	0218_06.D	CANISTER BLK 2837	CANISTER BLK 2837	02/18/23 14:36
8)	34	0218_07.D	CANISTER BLK 2839	CANISTER BLK 2839	02/18/23 15:15
9)	35	0218_08.D	CANISTER BLK 2840	CANISTER BLK 2840	02/18/23 15:54
10)	36	0218_09.D	XXXXXXXXXX		02/18/23 16:33
11)	1	0218_10.D	XXXXXXXXXX		02/18/23 19:23
12)	1	0218_11.D	XXXXXXXXXX		02/18/23 20:02
13)	1	0218_12.D	XXXXXXXXXX		02/18/23 20:41
14)	1	0218_13.D	XXXXXXXXXX		02/18/23 21:21
15)	1	0218_14.D	XXXXXXXXXX		02/18/23 21:57
16)	1	0218_15.D	XXXXXXXXXX		02/18/23 22:36
17)	1	0218_16.D	XXXXXXXXXX		02/18/23 23:13
18)	1	0218_17.D	XXXXXXXXXX		02/18/23 23:52
19)	1	0218_18.D	XXXXXXXXXX		02/19/23 0:31
20)	2	0218_19.D	XXXXXXXXXX		02/19/23 1:10
21)	3	0218_20.D	XXXXXXXXXX		02/19/23 1:49
22)	4	0218_21.D	XXXXXXXXXX		02/19/23 2:29
23)	5	0218_22.D	XXXXXXXXXX		02/19/23 3:08
24)	1	0218_23.D	XXXXXXXXXX		02/19/23 3:45
25)	1	0218_24.D	XXXXXXXXXX		02/19/23 4:22
26)	1	0218_25.D	XXXXXXXXXX		02/19/23 4:58
27)	2	0218_26.D	XXXXXXXXXX		02/19/23 5:35
28)	3	0218_27.D	XXXXXXXXXX		02/19/23 6:11
29)	4	0218_28.D	XXXXXXXXXX		02/19/23 6:48
30)	5	0218_29.D	XXXXXXXXXX		02/19/23 7:24
31)	6	0218_30.D	XXXXXXXXXX		02/19/23 8:01
32)	1	0218_31.D	XXXXXXXXXX		02/19/23 8:37
33)	1	0218_32.D	XXXXXXXXXX		02/19/23 9:13
34)	1	0218_33.D	XXXXXXXXXX		02/19/23 9:50
35)	1	0218_34.D	XXXXXXXXXX		02/19/23 10:27

Injection Log

Data Directory: H:\AIR2023\CHEM39\03MAR\06\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	0306_01.D	XXXXXXXXXX		03/06/23 11:28
2)	32	0306_02.D	XXXXXXXXXX		03/06/23 12:06
3)	33	0306_03.D	XXXXXXXXXX		03/06/23 12:45
4)	34	0306_04.D	XXXXXXXXXX		03/06/23 13:28
5)	1	0306_05.D	XXXXXXXXXX		03/06/23 14:05
6)	1	0306_06.D	XXXXXXXXXX		03/06/23 14:45
7)	2	0306_07.D	XXXXXXXXXX		03/06/23 15:26
8)	3	0306_08.D	XXXXXXXXXX		03/06/23 16:08
9)	4	0306_09.D	XXXXXXXXXX		03/06/23 16:53
10)	5	0306_10.D	XXXXXXXXXX		03/06/23 17:37
11)	6	0306_11.D	XXXXXXXXXX		03/06/23 18:18
12)	7	0306_12.D	XXXXXXXXXX		03/06/23 18:59
13)	8	0306_13.D	XXXXXXXXXX		03/06/23 19:39
14)	9	0306_14.D	XXXXXXXXXX		03/06/23 20:20
15)	10	0306_15.D	XXXXXXXXXX		03/06/23 21:00
16)	11	0306_16.D	XXXXXXXXXX		03/06/23 21:37
17)	12	0306_17.D	XXXXXXXXXX		03/06/23 22:14
18)	13	0306_18.D	XXXXXXXXXX		03/06/23 22:51
19)	14	0306_19.D	XXXXXXXXXX		03/06/23 23:29
20)	15	0306_20.D	XXXXXXXXXX		03/07/23 0:06
21)	16	0306_21.D	XXXXXXXXXX		03/07/23 0:43
22)	17	0306_22.D	XXXXXXXXXX		03/07/23 1:20
23)	18	0306_23.D	XXXXXXXXXX		03/07/23 1:57
24)	19	0306_24.D	XXXXXXXXXX		03/07/23 2:34
25)	20	0306_25.D	XXXXXXXXXX		03/07/23 3:12
26)	21	0306_26.D	XXXXXXXXXX		03/07/23 3:49
27)	22	0306_27.D	XXXXXXXXXX		03/07/23 4:26
28)	23	0306_28.D	XXXXXXXXXX		03/07/23 5:04
29)	24	0306_29.D	XXXXXXXXXX		03/07/23 5:42
30)	25	0306_30.D	XXXXXXXXXX		03/07/23 6:22
31)	26	0306_31.D	XXXXXXXXXX		03/07/23 7:34
32)	27	0306_32.D	XXXXXXXXXX		03/07/23 8:12
33)	28	0306_33.D	XXXXXXXXXX		03/07/23 9:11
34)	29	0306_34.D	XXXXXXXXXX		03/07/23 9:51
35)	30	0306_35.D	XXXXXXXXXX		03/07/23 10:31
36)	31	0307_01.D	CCAL 1 - BFB TUNE	1ppb ccal - 1ppb cc	03/07/23 11:09
37)	32	0307_02.D	XXXXXXXXXX		03/07/23 11:47
38)	33	0307_03.D	CN53534 LCS	CN53534 LCS	03/07/23 12:27
39)	34	0307_04.D	CN53534 BLANK	CN53534 BLANK	03/07/23 13:02
40)	35	0307_05.D	CN53534 QC	CN53534 QC	03/07/23 13:42
41)	36	0307_06.D	53534 dup	CN53534 DUP	03/07/23 14:22
42)	37	0307_07.D	XXXXXXXXXX		03/07/23 15:02
43)	38	0307_08.D	CN53534 QC 10X	CN53534 QC 10X	03/07/23 15:40
44)	39	0307_09.D	XXXXXXXXXX		03/07/23 16:18
45)	1	0307_10.D	XXXXXXXXXX		03/07/23 16:57
46)	2	0307_11.D	XXXXXXXXXX		03/07/23 17:37
47)	3	0307_12.D	XXXXXXXXXX		03/07/23 18:14
48)	4	0307_13.D	XXXXXXXXXX		03/07/23 18:51
49)	5	0307_14.D	XXXXXXXXXX		03/07/23 19:30
50)	6	0307_15.D	XXXXXXXXXX		03/07/23 20:06
51)	7	0307_16.D	XXXXXXXXXX		03/07/23 20:43
52)	8	0307_17.D	XXXXXXXXXX		03/07/23 21:19
53)	9	0307_18.D	XXXXXXXXXX		03/07/23 21:53
54)	10	0307_19.D	AMBIENT	CN54083	03/07/23 22:33
55)	11	0307_20.D	IA-11	CN54086	03/07/23 23:12
56)	12	0307_21.D	IA-2	CN54088	03/07/23 23:51
57)	13	0307_22.D	IA-4	CN54089	03/08/23 0:31
58)	14	0307_23.D	IA-1	CN54090	03/08/23 1:10
59)	15	0307_24.D	VP-2 5X	CN54079 5X	03/08/23 1:46
60)	16	0307_25.D	XXXXXXXXXX		03/08/23 2:23
61)	17	0307_26.D	XXXXXXXXXX		03/08/23 3:00
62)	18	0307_27.D	XXXXXXXXXX		03/08/23 3:36
63)	19	0307_28.D	XXXXXXXXXX		03/08/23 4:13
64)	20	0307_29.D	XXXXXXXXXX		03/08/23 4:49
65)	21	0307_30.D	XXXXXXXXXX		03/08/23 5:26
66)	22	0307_31.D	XXXXXXXXXX		03/08/23 6:02

67)	23	0307_32.D	VP-2	CN54079	03/08/23	8:44
68)	24	0307_33.D	VP-3	CN54080	03/08/23	9:23
69)	25	0307_34.D	VP-8	CN54081	03/08/23	10:02
70)	26	0308_01.D	CCAL 1 - BFB TUNE	1ppb ccal - 1ppb cc	03/08/23	10:50
71)	27	0308_02.D	XXXXXXXXXX		03/08/23	11:26
72)	28	0308_03.D	CN53500 LCS	CN53500 LCS	03/08/23	12:05
73)	29	0308_04.D	CN53500 BLANK	CN53500 BLANK	03/08/23	12:41
74)	30	0308_05.D	XXXXXXXXXX		03/08/23	13:23
75)	31	0308_06.D	CN53500 QC	CN53500 QC	03/08/23	14:01
76)	32	0308_07.D	53500 dup	CN53500 DUP	03/08/23	14:38
77)	33	0308_08.D	VP-7	CN54082	03/08/23	15:17
78)	34	0308_09.D	VP-4	CN54084	03/08/23	15:56
79)	35	0308_10.D	VP-5	CN54085	03/08/23	16:36
80)	36	0308_11.D	VP-6	CN54087	03/08/23	17:15
81)	37	0308_12.D	VP-1	CN54091	03/08/23	17:55
82)	38	0308_13.D	XXXXXXXXXX		03/08/23	18:34
83)	39	0308_14.D	XXXXXXXXXX		03/08/23	19:58
84)	40	0308_15.D	XXXXXXXXXX		03/08/23	20:35
85)	41	0308_16.D	XXXXXXXXXX		03/08/23	21:11
86)	42	0308_17.D	XXXXXXXXXX		03/08/23	21:48
87)	43	0308_18.D	XXXXXXXXXX		03/08/23	22:24
88)	44	0308_19.D	XXXXXXXXXX		03/08/23	22:59
89)	45	0308_20.D	XXXXXXXXXX		03/08/23	23:33
90)	45	0308_21.D	XXXXXXXXXX		03/09/23	0:16
91)	46	0308_22.D	XXXXXXXXXX		03/09/23	9:07
92)	47	0308_23.D	XXXXXXXXXX		03/09/23	9:44
93)	48	0308_24.D	XXXXXXXXXX		03/09/23	10:20

**DATA USABILITY SUMMARY REPORT
FOR MARCH 2023 AIR SAMPLING
CINDERELLA 248, LLC SITE,
248 FLATBUSH AVENUE, BROOKLYN, NY
SAMPLE DELIVERY GROUP # GCN54079**

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), eight sub-slab soil vapor (VP-1 through 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 eight-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-1) and the associated parent sample (IA-11), were generally similar. 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.

Laboratory control samples (LCS) were used by the laboratory to verify the accuracy and precision of the analyses. The LCS percent recoveries (%REC) were noted to be within established guidelines. Based on the LCS data the analytical results appear 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, ND-qualified data qualifiers were used when the compound was not detected above the method detection limit/limit of detection. 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?

No QC exceedances have been reported in the data package.

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 2023\SVI DUSR March 2023.Docx

ATTACHMENT B

BUILDING INVENTORY FORMS

**NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH**

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Christopher D. Scatani Date/Time Prepared 3/2/23

Preparer's Affiliation FPM Group Phone No. 631-737-6200

Purpose of Investigation SVI monitoring

1. OCCUPANT:

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ☐)

Interviewed: Y / ☒ N

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

Residential
Industrial

School
Church

Commercial/Multi-use
Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	Apartment House	Townhouses/Condos
Modular	Log Home	Other: _____

If multiple units, how many? 4

If the property is commercial, type?

Business Type(s) Office, Gym, Vacant

Does it include residences (i.e., multi-use)? Y / ☒ N If yes, how many? _____

Other characteristics:

Number of floors 2

Building age _____

Is the building insulated? Y / N

How air tight? Tight / Average / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

NA

Airflow near source

NA

Outdoor air infiltration

NA

Infiltration into air ducts

NA

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

- a. Above grade construction: wood frame concrete stone brick
- b. Basement type: full crawlspace slab other _____
- c. Basement floor: concrete dirt stone other _____
- d. Basement floor: uncovered covered covered with _____
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other _____
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: finished unfinished partially finished
- j. Sump present? Y / N
- k. Water in sump? Y / N / not applicable

Basement/Lowest level depth below grade: 8 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

Cracks and utility ports noted in basements

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

<u>Hot air circulation</u>	Heat pump	Hot water baseboard
Space Heaters	Stream radiation	Radiant floor
Electric baseboard	Wood stove	Outdoor wood boiler Other _____

The primary type of fuel used is:

<u>Natural Gas</u>	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Electric

Boiler/furnace located in: Basement Outdoors Main Floor Other _____

Air conditioning: Central Air Window units Open Windows None

Are there air distribution ducts present? ☒ Y ☐ N

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

ductwork observed in basement of unit 248.
tight joints and in good condition.

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally ☒ Seldom Almost Never

Level **General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**

Basement	<u>Storage</u>
1 st Floor	<u>Offices, Gym, Vacant</u>
2 nd Floor	<u>offices</u>
3 rd Floor	<u>NA</u>
4 th Floor	<u>NA</u>

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

- a. Is there an attached garage? Y / ☒ N
- b. Does the garage have a separate heating unit? Y / N / ☒ NA
- c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / N / ☒ NA
Please specify _____
- d. Has the building ever had a fire? Y / N When? unknown
- e. Is a kerosene or unvented gas space heater present? Y / ☒ N Where? _____
- f. Is there a workshop or hobby/craft area? Y / ☒ N Where & Type? _____
- g. Is there smoking in the building? Y / ☒ N How frequently? _____
- h. Have cleaning products been used recently? ☒ Y / N When & Type? daily
- i. Have cosmetic products been used recently? ☒ Y / N When & Type? daily

j. Has painting/staining been done in the last 6 months? Y / ☒ N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / ☒ N Where & When? _____

l. Have air fresheners been used recently? ☒ Y / N When & Type? Daily _____

m. Is there a kitchen exhaust fan? Y / N If yes, where vented? _____

n. Is there a bathroom exhaust fan? ☒ Y / N If yes, where vented? Roof _____

o. Is there a clothes dryer? ☒ Y / N If yes, is it vented outside? ☒ Y / N

p. Has there been a pesticide application? Y / ☒ N When & Type? _____

Are there odors in the building? Y / ☒ N

If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / ☒ N

(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist)

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly)

Yes, use dry-cleaning infrequently (monthly or less)

Yes, work at a dry-cleaning service

No

☒ Unknown

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____

Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: ☒ Public Water Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: ☒ Public Sewer Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

The following chemicals were found to be in present at the 248 Flatbush Ave Building. No other obvious sources of VOCs were noted in the other buildings.

- Econo-Gel EA (gel hand sanitizer) contains greater than 60% ethanol
- Glade Plugins Scented Oil contains 60 - 85 wt. % total VOC
- Assorted house hold cleaners and detergents, no specific VOCs noted.



2/11/2025

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, 2025**. 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 Patrick Powers, the Project Manager, at 518-402-9758 or patrick.powers@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

Patrick Powers, Project Manager
Douglas Macneal, 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, 2022 to March 27, 2025

YES NO

1. Is the information above correct? ☐ ☐

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? ☐ ☐

3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))? ☐ ☐

4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period? ☐ ☐

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? ☐ ☐

Box 2

YES NO

6. Is the current site use consistent with the use(s) listed below?
Restricted-Residential, Commercial, and Industrial ☐ ☐

7. Are all ICs in place and functioning as designed? ☐ ☐

**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.



**Department of
Environmental
Conservation**

KATHY HOCHUL
Governor

AMANDA LEFTON
Acting Commissioner

March 5, 2025

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

Re: Cinderella 248 LLC, Site No. C224160
Brooklyn, NY
Soil Vapor Intrusion Sampling Report

Dear Michael Pintchik:

The New York State Departments of Environmental Conservation (NYSDEC) and the New York State Department of Health (NYSDOH) have reviewed the *Soil Vapor Intrusion Sampling Report*, dated April 20, 2023, prepared by FPM Group. for the Cinderella 248 LLC Site in NYSDEC's Brownfield Cleanup Program.

Based on our review, we concur that soil vapor intrusion (SVI) rebound is not occurring and agree that the sub-slab depressurization system (SSDS) can continue to remain shut down.

If you have any questions please contact me at (518) 402-9791 or brittany.taranto@dec.ny.gov.

Sincerely,

Brittany Taranto
Project Manager, Bureau B
Division of Environmental Remediation

EC:

NYSDEC - D. MacNeal
NYSDOH – R. Minzloff, S. McLaughlin
FPM Group – b.cancemi@fpm-group.com
Rigano LLC – JRigano@riganollc.com

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 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, NYCDOS, 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 (HASP) 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 ANG 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 No. C224160 **Site Details** **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, 2022 to March 27, 2025

	YES	NO
1. Is the information above correct?	☒	☐

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?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	☒

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?	☐	☒

Box 2

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

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? ☐ YES ☒ NO

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? ☒ YES ☐ NO
(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

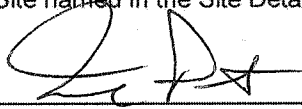
SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

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 Michael Pritchik at 502 Bergen St Brooklyn NY
print name print business address 11217

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

4/27/25
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 EPM GROUP, 640 JOHNSON AVENUE, SUITE 101,
print name print business address BOHEMIA, NY 11716

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

[Handwritten Signature]

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



Stamp
(Required for PE)

4-24-25

Date

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
6/7/2022	32	30	27	70	30	68	28	65	0.0	0.01	0.01	0	0.01	0.01	0.01	0	0.1	

Notes:

"H₂O = inches of water

ppm = parts per million

scfm = standard cubic feet per minute

psi = pounds per square inch

FPM