

**BUILDING 710 (FORMERLY 330 LINK)
MIDWAY DENTAL SPACE
PRE-OCCUPANCY INDOOR AIR
QUALITY TESTING SUMMARY REPORT**

AT

**IPARK 84
FORMER IBM EAST FISHKILL FACILITY
2070 STATE ROUTE 52
HOPEWELL JUNCTION, NEW YORK 12533**

**MAY 2021
(UPDATED SEPTEMBER 2021 TO INCLUDE
DATA USABILITY SUMMARY REPORT)**

PREPARED FOR:

**JESSICA LACLAIR
NEW YORK STATE DEPT. OF ENVIRONMENTAL CONSERVATION
DEPT. OF ENVIRONMENTAL REMEDIATION
625 BROADWAY
ALBANY, NEW YORK 12233-7013**

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
Industry Leader in Environmental Engineering Consulting

———— PROACTIVE SOLUTIONS SINCE 1995 ————



Sent via email to jess.laclair@dec.ny.gov

May 18, 2021
iPARK0118.51

Ms. Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 710 (formerly Building 330 Link)
Midway Dental Space Pre-Occupancy
Indoor Air Quality Testing Summary Report

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the results of the indoor air quality (IAQ) testing conducted on May 6, 2021 within the Midway Dental space in Building 710 (formerly Building 330 Link). Building 710 is owned by iPark East Fishkill (iPark). A manufacturer of dental equipment (Midway Dental) is leasing 10,000 ft² of space in the northwestern part of Building 710 (330 Link) on the first floor. Refer to **Figure 1** for the site location map. Following completion of interior construction in the dental space, IAQ testing was conducted prior to tenant occupancy as required by NYSDEC and NYSDOH. The purpose of the testing was to verify that IAQ is acceptable before the tenant takes occupancy and begins operating in the space.

Walden, at the request of iPark, performed the IAQ testing in accordance with the *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and Walden's IAQ Testing Plan letter (Testing Plan, dated February 19, 2021), which was approved by NYSDEC on April 19, 2021. Copies of the approved Testing Plan and associated correspondence with NYSDEC (April 2, 2021 comment letter and Walden's April 14, 2021 response) are included in **Appendix A**.



Summary of HVAC Conditions and Building Inventory

The Midway Dental space in Building 710 is served by the existing HVAC system (Units #AC-25 and #AC-60) which were operating during the May 6, 2021 IAQ sampling under the same conditions anticipated during normal operations once the tenant takes occupancy.

With the exception of incidental cleaning and sanitizing agents, chemicals are not stored within this tenant space. During the sampling, no floor adhesives or other materials associated with final interior renovations were observed within the space. A copy of the Indoor Air Quality Questionnaire and Building Inventory completed during the IAQ sampling event is presented in **Appendix B**.

Summary of IAQ Testing

IAQ testing was conducted in accordance with the procedures outlined in the NYSDEC-approved RFI Work Plan and Testing Plan. Samples were collected using 6-liter, individually certified clean, stainless-steel Summa[®] canisters. The Summa[®] canisters were calibrated by the laboratory with flow controllers to obtain 8-hour time-averaged samples. Indoor air samples were collected from a height of approximately three (3) feet above the floor at the following seven (7) locations throughout the Midway Dental space, which are depicted on **Figure 2**:

Sample ID	Representative Square Footage, approximate (ft ²)	Area Use
MWIA-01	1,135	Lobby/Entrance to Midway Dental space (*not within the space being leased by Midway Dental*)
MWIA-02	110	Office Area
MWIA-03	4,940	Storage Area, 1-east
MWIA-04		Storage Area, 1-west
MWIA-05	1,960	Storage Area 2
MWIA-Dup		Storage Area, 1-east
MWAA-01		Outdoor Ambient Air Sample
MWFB		Nitrogen Field Blank

A duplicate sample (MWIA-Dup) was collected at location MWIA-03: Storage Area, 1-east. One (1) outdoor ambient air sample (AA-01) was collected adjacent to one of the rooftop air intakes for the HVAC system to assess background conditions and any potential impacts on the IAQ results. A field blank was also collected by transferring lab-grade nitrogen directly from a compressed gas canister into a Summa[®] Canister.



PID readings were collected at each sample location immediately before sample collection began to evaluate whether VOCs were present in the space and had the potential to impact the IAQ results. The following PID readings were collected:

Sample ID	PID Reading (ppm)
MWIA-01	0.0
MWIA-02	0.1
MWIA-03	0.1
MWIA-04	0.1
MWIA-05	0.1
MWIA-Dup	0.1
MWAA-01	0.0
MWFB	0.0

The PID screening measurements indicated no apparent air quality impacts. The presence of cleaning products and sealants were recorded in the tenant space (refer to **Appendix B**).

All samples were transferred to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) under chain of custody for analysis of volatile organic compound (VOC) analytes via modified Method TO-15 (full list) to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. A summary of field sampling information is provided in **Table 1**. The IAQ laboratory analytical data are provided in **Table 2**. Photos taken during the sampling are provided in **Appendix C**. The full laboratory analytical report is provided in **Appendix D**. A Data Usability Summary Report (DUSR) is being prepared and will be submitted under separate cover.

Results and Discussion

The Midway Dental IAQ analytical data were compared to the typical indoor air background concentrations published in USEPA's 2001 Building Assessment and Survey Evaluation (BASE) database. When developing BASE, USEPA collected indoor air samples at randomly selected office and commercial buildings using Summa[®] canisters. **Table 2** presents the Midway IAQ data compared to the 75th, 90th, 95th and 99th percentile indoor air BASE concentrations for reference in comparing the VOC data to typical indoor background concentrations.

All of the VOC concentrations detected in the Midway IAQ samples were within or below the range of background concentrations listed in the USEPA BASE database as noted in **Table 2**,

Ms. Jessica LaClair
Building 710 (330 Link) Midway Dental IAQ Testing
May 18, 2021

- 4 -



indicating that indoor air quality is acceptable. Based on the results from the pre-occupancy IAQ testing presented herein, please confirm that the Midway Dental space within Building 710 (330 Link) is suitable for tenant occupancy.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
VP/Senior Project Manager

Attachments:

Figure 1 – Site Location Map

Figure 2 – Sampling Locations

Table 1 – Summary of Field Information

Table 2 – Summary of IAQ Analysis

Appendix A - IAQ Testing Plan and Associated NYSDEC Correspondence

Appendix B – Indoor Air Quality Questionnaire and Building Inventory

Appendix C – Photographic Log of Sampling Locations

Appendix D – Laboratory Analytical Report (Category B Deliverables)

Appendix E – Data Usability Summary Report (added September 2021)

cc: J. Kenney, NYSDOH
L. Daubert, IBM
S. Montefusco, iPark
C. Monheit, iPark

Z:\iPark0118\iPark0118.51 - B710 330 Link Midway Dental\IAQ Sampling\Midway Dental Building 710 (330 Link) IAQ Summary Report



PROPOSED WORK AREA

SITE PLAN
N.T.S.

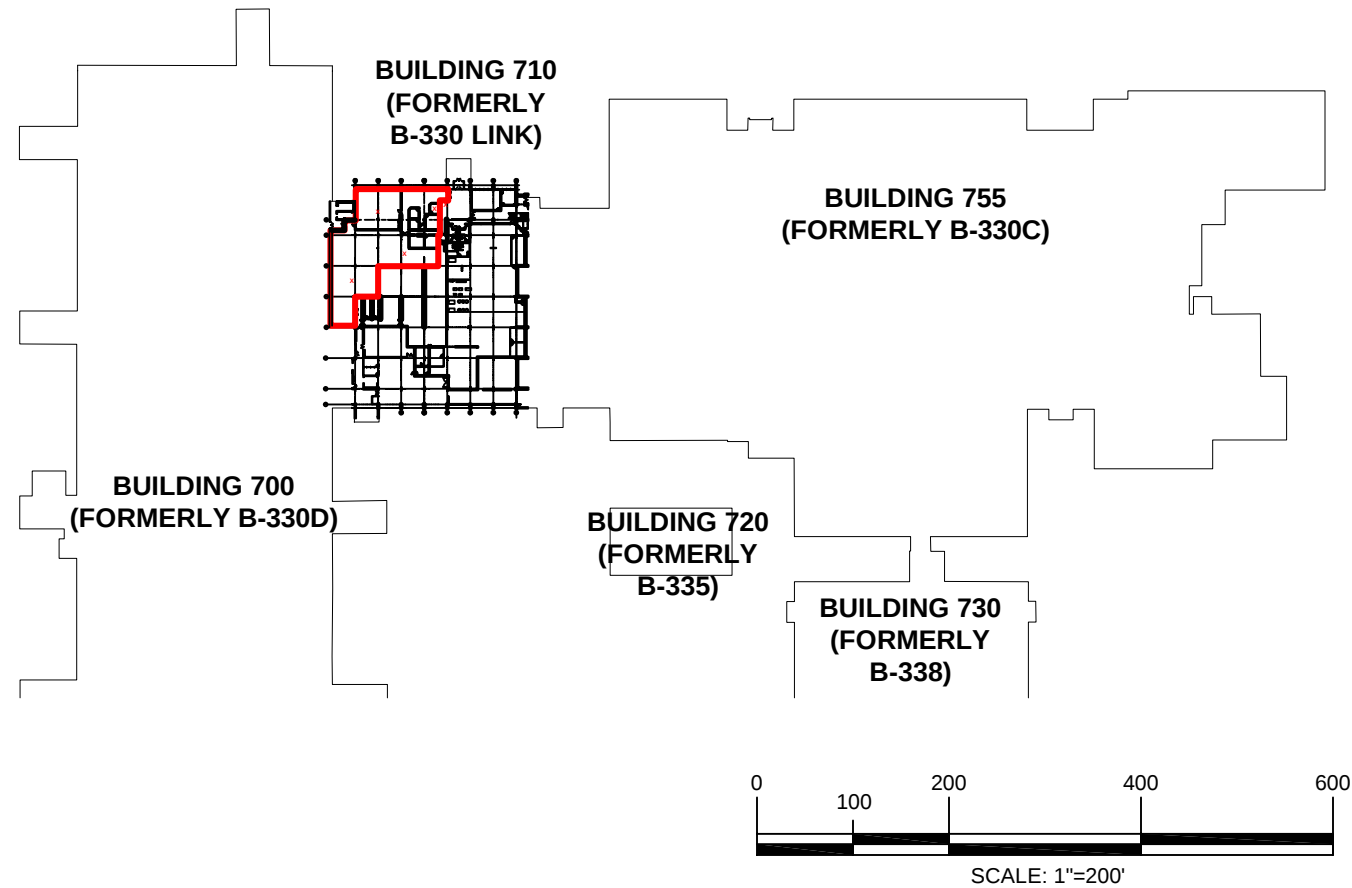
• UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209 OF NEW YORK STATE EDUCATION LAW.
• COPIES OF THIS PLAN NOT BEARING THE PROFESSIONAL ENGINEER'S INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY.

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 710 (FORMER 330 LINK) iPark 84 Campus 2070 State Route 52 Hopewell Junction, NY 12533	
DESIGNED BY: NMB	DRAWN BY: EJK
APPROVED BY: JMH	SCALE: AS NOTED

DRAWING TITLE: SITE PLAN BUILDING 710-DENTAL MANUFACTURING OPERATION	
JOB NO: IPARK0118.41	DATE: 11/26/19
CAD FILE NAME: 2:\Park0118\IPark0118.41 Bldg 710 former 330 Link\CAD\IPark0118.41 Bldg 710 former 330 Link.dwg	

FIGURE NO: 1	ISSUED
REVISION NO: 0	



LEGEND



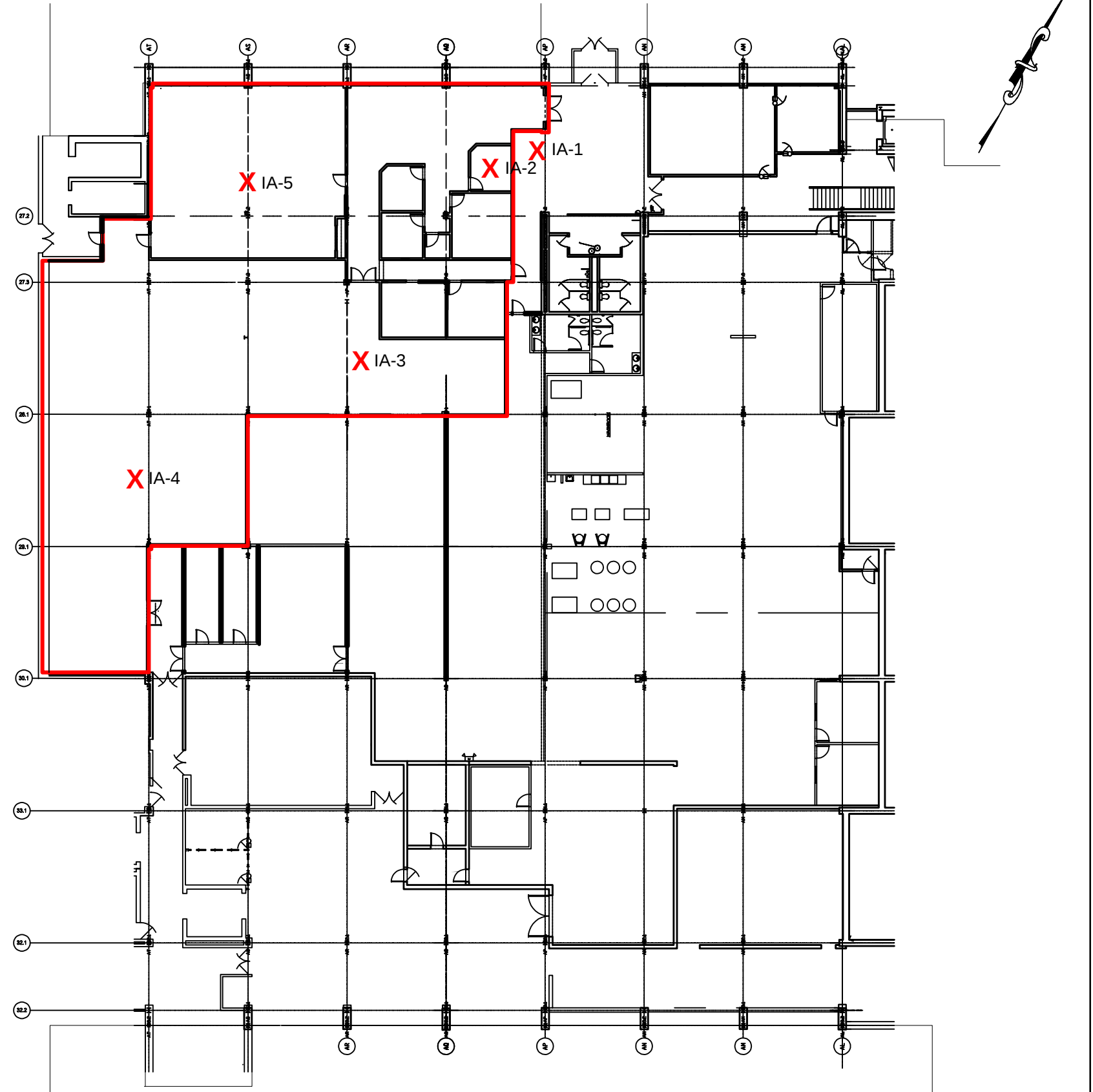
- MIDWAY DENTAL TENANT SPACE



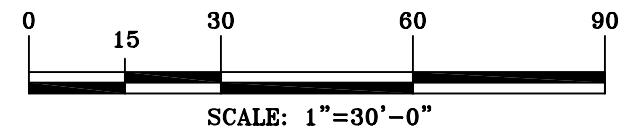
- INDOOR AIR QUALITY (IAQ) SAMPLE LOCATION FOR MIDWAY DENTAL PRE-OCCUPANCY.

NOTES

- PRE-OCCUPANCY SAMPLING IN THE MIDWAY DENTAL TENANT SPACE CONSISTED OF IAQ SAMPLING AT LOCATIONS IA-01 THROUGH IA-05.



BUILDING 710 (FORMERLY 330 LINK)
MIDWAY DENTAL TENANT SPACE IAQ ASSESSMENT
SCALE: 1" = 30'-0"



DRAWING TITLE:		<u>FIGURE 1</u>	
BUILDING 710 - MIDWAY DENTAL TENANT SPACE IAQ ASSESSMENT			
JOB NO: iPark118.41	DATE: 5/11/2021	11x17	SHEET NO: 1 OF 1
CAD FILE NAME: Z:\iPark0118\iPark0118.51 - B710 330 Link Midway Dental\ACAD\iPark0118.51 B710 Link - Midway Dental 5-12-21.dwg			

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 1
SUMMARY OF INDOOR AIR SAMPLE INFORMATION (MAY 6, 2021)
BUILDING 710 (FORMER 330 LINK) - MIDWAY DENTAL

Sample Location	Building Floor	Sample Matrix	Canister Number	Regulator Number	Sample Height (feet above floor)	Start Time (24-hour format)	Start Pressure (mmHg)	PID Reading (ppm)	Stop Time (24-hour format)	Stop Pressure (mmHg)	Temperature (°F)	Location Description	Chemicals Observed Near Sample Location
MWIA-01	First	Indoor Air	28614	7014	2.5	8:05	-29	0.1	14:44	-8	58	Lobby/Entrance	None Observed
MWIA-02	First	Indoor Air	28591	6987	2.5	8:10	-30	0.1	14:45	-9	58	Office Area	None Observed
MWIA-03	First	Indoor Air	2338	5595	2.5	8:00	-30	0.1	14:42	-9	58	Storage Area, 1- east	None observed
MWIA-04	First	Indoor Air	2332	3510	2.5	8:17	-30	0.1	14:56	-9	58	Storage Area, 1- west	None observed
MWIA-05	First	Indoor Air	21339	7023	2.5	7:53	-28	0.1	13:58	-9	58	Storage Area 2	None Observed
MWIA-DUP	First	Indoor Air	13634	7004	2.5	8:01	-30	0.1	14:41	-9	58	Storage Area, 1-east	None Observed
MWAA-01	First	Ambient Air	28580	5600	1	7:33	-28	0.0	13:20	-9	50 (AM), 58 (PM)	NW Front of Building	None observed
MWFB	First	Nitrogen Field Blank	28548	3511	1	12:16	-30	0.0	12:38	-9	65	NW Front of Building	None observed

iPARK 84 Campus
2070 NY-Route 52
Hopewell Junction, New York

TABLE 2
SUMMARY OF IAQ ANALYSIS (MAY 6, 2021)
BUILDING 710 (FORMER 330 LINK) - MIDWAY DENTAL

CAS Registry Number		USEPA BASE Database Tables - Typical Background Concentrations for Indoor Air				Collection Date Sample ID	5/6/2021 MWIA-01		5/6/2021 MWIA-02		5/6/2021 MWIA-03		5/6/2021 MWIA-DUP		5/6/2021 MWIA-04		5/6/2021 MWIA-05		5/6/2021 MWAA-01		
							Air		Air		Air		Air		Air		Air		Air		
		75th Percentile	90th Percentile	95th Percentile	99th Percentile		Location	Lobby/Entrance		Office Area		Storage Area, 1- east		Storage area, 1- east		Storage Area, 1- west		Storage Area 2		Outdoor Air Intake	
								Result	RL	Result	RL	Result	RL	Result	RL	RL	Result	RL	Result	RL	Result
Volatiles (TO15) By TO15																					
1,1,1-Trichloroethane	71-55-6	10.8	20.6	33.0	737.9	ug/m3	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	< 1.09	1.09	
1,1-Dichloroethene	75-35-4	<1.2	<1.4	<1.6	<1.7	ug/m3	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	
1,2,4-Trichlorobenzene	120-82-1	<1.2	<6.8	<7.2	<8.1	ug/m3	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	< 1.85	1.85	
1,2-Dichlorobenzene	95-50-1	<1.0	<1.2	<1.3	10.5	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	
1,3-Dichlorobenzene	541-73-1	<1.1	<2.4	<2.5	<2.8	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	
1,4-Dichlorobenzene	106-46-7	1.4	5.5	12.5	80.5	ug/m3	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	< 0.90	0.90	
Acetone	67-64-1	59.8	98.9	120.2	226.6	ug/m3	6.15	2.37	6.93	2.37	8.26	2.37	6.6	2.37	10.3	2.37	6.48	2.37	3.51	2.37	
Benzene	71-43-2	5.1	9.4	12.5	25.0	ug/m3	0.2	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	< 0.16	0.16	
Carbon Tetrachloride	56-23-5	<1.1	<1.3	0.7	0.9	ug/m3	0.46	0.13	0.48	0.13	0.53	0.13	0.23	0.13	0.48	0.13	< 0.13	0.13	0.48	0.13	
Chlorobenzene	108-90-7	<0.8	<0.9	<1.0	1.0	ug/m3	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	< 0.92	0.92	
Cis-1,2-Dichloroethene	156-59-2	<1.2	<1.9	<2.0	<2.2	ug/m3	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	
Dichlorodifluoromethane	75-71-8	10.5	16.5	32.9	81.3	ug/m3	1.98	0.99	1.97	0.99	2.1	0.99	2.17	0.99	2.03	0.99	1.98	0.99	1.85	0.99	
Ethylbenzene	100-41-4	3.4	5.7	7.6	18.5	ug/m3	0.79	0.65	1.57	0.65	1.16	0.65	1.12	0.65	1.09	0.65	0.75	0.65	< 0.65	0.65	
m,p-Xylene	179601-23-1	12.2	22.2	28.5	67.6	ug/m3	3.04	0.65	5.51	0.65	4.21	0.65	3.75	0.65	3.68	0.65	2.81	0.65	< 0.65	0.65	
Methylene Chloride	75-09-2	5.0	10.0	16.0	1155.6	ug/m3	1.44	1.39	2.11	1.39	< 1.39	1.39	< 1.39	1.39	5.38	1.39	< 1.39	1.39	< 1.39	1.39	
o-Xylene	95-47-6	4.4	7.9	11.2	20.1	ug/m3	0.7	0.65	1.16	0.65	0.88	0.65	0.89	0.65	0.89	0.65	< 0.65	0.65	< 0.65	0.65	
Tetrachloroethene	127-18-4	5.9	15.9	25.4	55.6	ug/m3	1.26	0.68	< 0.68	0.68	0.94	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	
Toluene	108-88-3	25.9	43.0	70.8	348.9	ug/m3	1.02	0.75	1.68	0.75	1.25	0.75	1.08	0.75	5.72	0.75	< 0.75	0.75	< 0.75	0.75	
Trichloroethene	79-01-6	1.2	4.2	6.5	57.0	ug/m3	0.31	0.20	< 0.20	0.20	0.39	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	< 0.20	0.20	
Trichlorofluoromethane	75-69-4	6.7	18.1	54.0	860.6	ug/m3	2.11	0.84	2.43	0.84	2.14	0.84	2.14	0.84	2.23	0.84	2.03	0.84	1.73	0.84	
Trichlorotrifluoroethane	76-13-1	<3.0	3.5	9.4	19.7	ug/m3	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	< 1.15	1.15	
Vinyl Chloride	75-01-4	<1.0	<1.9	<2.2	<2.6	ug/m3	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	< 0.05	0.05	

Result Detected

APPENDIX A

IAQ TESTING PLAN AND ASSOCIATED NYSDEC CORRESPONDENCE

- IAQ TESTING PLAN (WALDEN, FEBRUARY 19, 2021)
- NYSDEC COMMENT LETTER (APRIL 2, 2021)
- WALDEN RESPONSE LETTER (APRIL 14, 2021)
- NYSDEC APPROVAL LETTER (APRIL 19, 2021)



Sent via email to jess.laclair@dec.ny.gov

February 19, 2021
iPARK0118.51

Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 710 (Formerly Building 330 Link) – Midway
Dental Pre-Occupancy Indoor Air Quality Testing Plan

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has prepared this letter to summarize the Indoor Air Quality (IAQ) testing proposed to evaluate indoor air quality within Building 710 (Formerly Building 330 Link) at the Former IBM East Fishkill facility (Facility). A manufacturer of dental equipment (Midway Dental) that will employ approximately eight (8) people plans to lease approximately 10,000 ft² of space in the northwestern part of Building 710 (330 Link). A copy of the 60-day notification for the Midway Dental use, submitted to NYSDEC on September 25, 2020, is attached in **Appendix A**. See **Figure 1** for the site location map and **Figure 2** for the Building 710 (330 Link) layout. It is understood that NYSDEC and NYSDOH require this sampling to be completed and the results reported to the State to verify that IAQ is acceptable in this space before the tenant takes occupancy.

iPark is in the process of completing the interior modifications as needed to ready the Midway Dental space for occupancy. These modifications include relocation of interior walls, which have been completed as of the date of this work plan. The space has an open plenum ceiling. Once the interior modifications are completed, Walden, at the request of iPark, shall perform the IAQ testing in accordance with the procedures detailed in the June 15, 2009 *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan (RFI Work Plan)*, prepared on behalf of IBM) which was previously approved by NYSDEC. Walden will notify NYSDEC and NYSDOH when the IAQ sampling has been scheduled.



The proposed IAQ sampling locations are shown on **Figure 3** and listed below. The actual sampling locations will be determined in the field. Any significant changes from the locations shown on **Figure 3** will be discussed with NYSDEC and NYSDOH to gain the State's concurrence before sample collection begins. The Midway Dental space in Building 710 (330 Link) is served by the existing HVAC system (Units #AC-25 and #AC-60) which will be re-energized. The HVAC system will be operating during the IAQ sampling. Building 710 (330 Link) is not actively served by any Sub Slab Depressurization Systems (SSDS); however, IBM currently operates SSDS in Buildings 700 (330D) and 775 (330C), located on either side of Building 710 (330 Link).

Sample ID	Representative Square Footage (ft ²)	Area Use
IA-1	1,135	Lobby/Entrance to Midway Dental space (*not within the space being leased by Midway Dental*)
IA-2	110	Office area
IA-3	4,940	Storage area 1-east
IA-4		Storage area 1-west
IA-5	1,960	Storage area 2

In addition to the samples referenced above, one duplicate sample (IA-Duplicate) will be collected at one of the sample locations which will be determined in the field. One outdoor ambient air sample (AA-01), will be collected at one of the HVAC unit intakes to assess background conditions and identify any background impacts to IAQ. Additionally, a nitrogen field blank will be collected. Any chemicals observed as being stored or used within the space will be inventoried during the sampling.

All samples will be submitted to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) for analysis of VOC analytes via Method TO-15 (full list). A modified Method TO-15 analysis as specified in the June 2009 *RFI Work Plan* will be used to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. The IAQ data will be evaluated, validated and presented in a summary report that will be submitted to NYSDEC and NYSDOH for review to confirm that the space is approved for occupancy. Data generated during these Building 710 (330 Link) IAQ sampling activities will be shared with IBM. Note that iPark will provide the results of the IAQ sampling to the tenant within 45 days of receiving the validated data.

Please call me at (516) 624-7200 if you have any questions or need any additional information.

Ms. Jessica LaClair
B710 Midway Dental IAQ Testing Plan
February 19, 2021

- 3 -



Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
VP/Senior Project Manager

cc: J. Kenney, NYSDOH
C. Monheit, iPark East Fishkill
D. Vitija, iPark East Fishkill
D. Chartrand, IBM

Attachments:

Figure 1 – Site Location Map
Figure 2 – Building 710 (330 Link) Layout
Figure 3 – Proposed IAQ Sampling Locations

Appendix A – 60-Day Notification for Building 710 (330 Link) Midway Dental (September 25, 2020)

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau D

625 Broadway, 12th Floor, Albany, NY 12233-7013

P: (518) 402-9676 | F: (518) 402-9773

www.dec.ny.gov

April 2, 2021

Joseph Cotter
iPark 84
200 North Drive
Hopewell Junction, NY 12533

Re: B-330 Link – Midway Dental Pre-Occupancy Indoor Air Testing Plan
Former IBM East Fishkill
Site #314054
Hopewell Junction

Dear Mr. Cotter:

The New York State Department of Environmental Conservation and Department of Health (Departments) have reviewed the Indoor Air Quality Testing Plan for Building 330 Link – Midway Dental tenant space dated February 19, 2021. This work plan proposes indoor air sampling to be conducted prior to occupancy. It is anticipated that this space will be used for a manufacturer of dental equipment that will employ approximately eight people in the northwest part of this building. The Departments have the following comments:

1. Please provide any indoor air or subslab data for B330 Linkway. Without current sub-slab soil vapor beneath this building, we are unable to conclude that the proposed indoor air sample locations will be representative of current air conditions within the building. Therefore, we will need additional data to determine whether or not there is a future potential for the indoor air of this building to be impacted as a result of soil vapor intrusion.
2. Please provide a timeframe for re-energizing the HVAC units. These units must be operational prior to the sampling event. With that, please provide additional information on HVAC units, specifically AC-25 and AC-60 (i.e. are they attached to the other manufacturing spaces?).
3. Please include a figure which depicts all the occupied or planned occupied tenant spaces in this building.
4. Please relocate IA-1 westward away from the main entrance door.
5. Please update the State on the status of the May 13, 2020 letter to Mr. Cotter, which requires additional data be collected in the Linkway.



Department of
Environmental
Conservation

Please revise the Indoor Air Quality testing plan and resubmit for review. If you have any questions, please call me at (518) 402-9821.

Sincerely,

A handwritten signature in cursive script that reads "Jessica La Clair".

Jess LaClair
Project Manager

cc: C. Monheit, NR
V. Dardan, NR
D. Pennessi, NR
L. Ward, NR
G. Marone, GF
E. Lutz, GF
D. Chartrand, IBM
L. Daubert, IBM
S. Edwards, DEC
J. Armitage, DEC
J. Stenerson, DEC
J. Kenney, DOH
M. Schuck, DOH
N. Brew, Walden



Sent via email to jess.laclair@dec.ny.gov

April 14, 2021
iPARK0118.51

Jessica LaClair
Environmental Engineer
Division of Environmental Remediation
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625 Broadway
Albany, NY 12233-7013

Re: iPark 84, Former IBM East Fishkill Facility
Building 710 (Formerly Building 330 Link) – Midway
Dental Pre-Occupancy Indoor Air Quality Testing Plan

Dear Ms. LaClair:

Walden Environmental Engineering, PLLC (Walden) has reviewed NYSDEC's April 2, 2021 letter regarding the *Building 710 (Formerly Building 330 Link) – Midway Dental Pre-Occupancy Indoor Air Quality Testing Plan* on behalf of the site owner, iPark East Fishkill LLC. As discussed, we have prepared **Figure 1** (attached) to provide the following supplemental information to facilitate the State's review of the Midway Dental Plan.

- Layout of the B710/B330 Link tenant spaces to be occupied by Midway Dental (outlined in red) and Sprout Creek Bakery (outlined in blue).
- Locations of the indoor air and sub-slab vapor samples (blue X's) collected in May 2020 prior to construction in the space to be occupied by Sprout Creek Bakery. A copy of the *Building 710 (Formerly 330 Link) Pre-Construction Sampling Summary Report* (Walden, May 2020) is attached to this letter and presents the May 2020 results (see **Attachment A**). The only other available indoor air sampling data for this linkway is from a sample collected in September 2020 by Sanborn Head; no PCE or TCE were detected in this sample as shown on the figure provided in **Attachment B**.
- Location of the additional sub-slab vapor and indoor air sampling point (green X for IA-08/SSV-08) requested outside the Sprout Creek tenant space based on the State's review of the May 2020 data discussed above. As discussed with NYSDEC and NYSDOH on October 22, 2020, sub-slab soil vapor samples will be collected from SSV-06 and SSV-



08 concurrent with the pre-occupancy indoor air sampling (at IA-01 through IA-08) for the Sprout Creek space.

- Locations for the pre-occupancy indoor air sampling to be conducted in the Midway Dental space (red X's). Note that location IA-1 has been relocated westward away from the main entrance door in accordance with Comment #4 from NYSDEC's April 2, 2021 letter.

The HVAC units serving the Midway Dental and Sprout Creek Bakery tenant spaces will be re-energized and operational before pre-occupancy sampling is performed. Additional HVAC details and operating settings will be provided in the pre-occupancy sampling summary reports.

Indoor air sampling in the Midway Dental space will proceed upon approval from the State in accordance with the Testing Plan when the interior modifications are complete; Walden will inform NYSDEC/NYSDOH when the sampling is scheduled. If construction progress and tenant schedules allow, the Midway Dental and Sprout Creek Bakery pre-occupancy sampling will be performed concurrently.

Please confirm that the *Building 710 (Formerly Building 330 Link) – Midway Dental Pre-Occupancy Indoor Air Quality Testing Plan* is approved and call me if you have any questions.

Very truly yours,
Walden Environmental Engineering, PLLC

Nora M. Brew, P.E.
VP/Senior Project Manager

cc: J. Kenney, NYSDOH
C. Monheit, iPark East Fishkill
D. Vitija, iPark East Fishkill
L. Daubert, IBM

Attachments

Figure 1 – Building 710 IAQ Assessment and Soil Vapor Sampling Locations

Attachment A - *Building 710 (330 Link) Pre-Construction Sampling Summary Report* (Walden, May 2020)

Attachment B – September 2020 Indoor Air Sampling Results for B330 Link (Sample IA4014)

Z:\iPark0118\iPark0118.51 - B710 330 Link Midway Dental\IAQ Sampling\B710 (Formerly 330 Link) Midway Dental IAQ Testing Letter 4.14.21.docx

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Remedial Bureau D

625 Broadway, 12th Floor, Albany, NY 12233-7013

P: (518) 402-9676 | F: (518) 402-9773

www.dec.ny.gov

April 19, 2021

Joseph Cotter
iPark 84
200 North Drive
Hopewell Junction, NY 12533

Re: B-330 Link Midway Dental Space Pre-Occupancy Indoor Air Testing Plan
Former IBM East Fishkill
Site #314054
Hopewell Junction

Dear Mr. Cotter:

The New York State Department of Environmental Conservation and Department of Health (Departments) have reviewed the response dated April 14, 2021 to the Departments' comments sent April 2, 2021. The comments were regarding the Indoor Air Quality (IAQ) Testing Plan for Building 330 Link – Midway Dental tenant space. The IAQ Testing Plan for the Midway Dental tenant space dated February 18, 2021, with the supplemental information provided April 14, 2021 is approved.

Please continue to keep the Departments informed as work is scheduled. If you have any questions, please call me at (518) 402-9821.

Sincerely,



Jess LaClair
Project Manager



Department of
Environmental
Conservation

ec: C. Monheit, iPark
D. Pennessi, NR
L. Ward, NR
G. Marone, GF
E. Lutz, GF
D. Chartrand, GS
L. Daubert, IBM
S. Edwards, DEC
J. Armitage, DEC
J. Stenerson, DEC
J. Kenney, DOH
M. Schuck, DOH
N. Brew, Walden

APPENDIX B
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

Midway
Dental
0118.51NEW 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 Terri Wright Date/Time Prepared 1300 5/6/21Preparer's Affiliation Project Scientist Phone No. 845Purpose of Investigation collection of indoor air samples

1. OCCUPANT:

Interviewed: ☒ Y / ☐ NLast Name: Montebusco First Name: ShawnAddress: 1 Park East Fishkill LLCCounty: DutchessHome Phone: (845) 705-4003 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
IndustrialSchool
ChurchCommercial/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: <u>N/A</u>

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) Dental equipment

Does it include residences (i.e., multi-use)? Y (N) If yes, how many? _____

Other characteristics:

Number of floors 1

Building age 1980s

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

N/A

Airflow near source

N/A

Outdoor air infiltration

N/A

Infiltration into air ducts

moderate

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 N/A
- c. Basement floor: concrete dirt stone other N/A
- d. Basement floor: uncovered covered covered with N/A
- e. Concrete floor: unsealed sealed sealed with _____
- f. Foundation walls: poured block stone other N/A
- g. Foundation walls: unsealed sealed sealed with _____
- h. The basement is: wet damp dry moldy
- i. The basement is: N/A finished unfinished partially finished
- j. Sump present? Y (N)
- k. Water in sump? Y (N) not applicable

Basement/Lowest level depth below grade: _____ (feet) lowest level on grade

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

N/A

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)

Hot air circulation
Space Heaters
Electric baseboard

Heat pump
Stream radiation
Wood stove

Hot water baseboard
Radiant floor
Outdoor wood boiler

Other _____

The primary type of fuel used is:

Natural Gas
Electric
Wood

Fuel Oil
Propane
Coal

Kerosene
Solar

Domestic hot water tank fueled by: natural gas

Boiler/furnace located in: Basement Outdoors Main Floor

Other top floor

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.

Recently updated HVAC

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

1st Floor

midwaidental, sprout creek Bakery, Crepini

2nd Floor

Cafeteria

3rd Floor

4th Floor

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? _____

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? _____

i. Have cosmetic products been used recently?

Y (N) When & Type? _____

j. Has painting/staining been done in the last 6 months?

☒ Y ☐ N Where & When? throughout space

k. Is there new carpet, drapes or other textiles?

☒ Y ☐ N Where & When? IA-03, IA-05

l. Have air fresheners been used recently?

Y / ☒ N When & Type? _____

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? _____

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

☒ UnknownIs 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: _____Global Foundries WWT

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

11. FLOOR PLANS

Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:

See Workplan

First Floor:

See Workplan

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.

See Workplan

Make & Model of field instrument used: PID monitor

[illegible]

**** Photographs of the front and back of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.**

Indoor Air Quality Questionnaire and Building Inventory
Product Inventory Photographs – May 6, 2021
Former IBM East Fishkill Facility – Building 710 (330 Link)
MIDWAY DENTAL



Photo #1: Near Column AT29

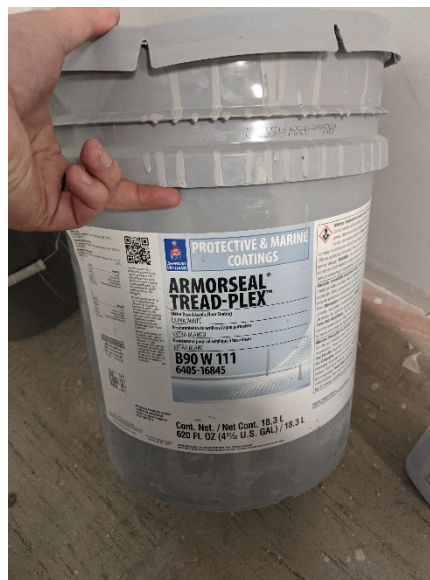


Photo #2: Near Column AT29



Photo #3: Type B:C Fire Extinguishers throughout Midway space

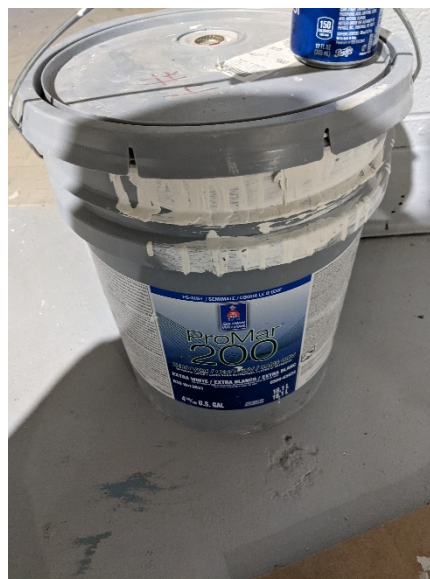


Photo #4: Located surrounding AT27.3, also included 7qty. of 1 gallon

APPENDIX C
PHOTOGRAPHIC LOG OF SAMPLING LOCATIONS

Building 710 (330 Link) Midway Dental
Site Photographs – May 6, 2021

Photograph #1



Sample Location MWIA-01,
Lobby/Entrance to Midway Dental space
(*not within the
space being leased by Midway Dental*)

Photograph #2



Sample Location MWIA-02,
Office Area

Photograph #3



Sample Location MWIA-03,
Storage area 1-east

Photograph #4



Sample Location MWIA-04,
Storage area 1-west

Photograph #5



Sample Location MWIA-05,
Storage Area 2

Photograph #6



Ambient Air Sample

APPENDIX D
LABORATORY ANALYTICAL REPORT
(CATEGORY B DELIVERABLES)



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

Walden Environmental Engineering PLLC
MIDWAY DENTAL

GCI26499

Ver 1

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Friday, July 09, 2021

Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Project ID: MIDWAY DENTAL
SDG ID: GCI26499
Sample ID#s: CI26499 - CI26506

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
UT Lab Registration #CT00007
VT Lab Registration #VT11301



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



**NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE**

Client: Walden Environmental Engineering PLLC
Project: MIDWAY DENTAL
Laboratory Project: GCI26499



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

July 09, 2021

SDG I.D.: GCI26499

Walden Environmental Engineering PLLC MIDWAY DENTAL

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

July 09, 2021

SDG I.D.: GCI26499

Walden Environmental Engineering PLLC MIDWAY DENTAL

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CI26499	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26500	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26501	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26502	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26503	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26504	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26505	Volatiles (TO15)	05/06/21	05/07/21	05/07/21	KCA	Y
CI26506	Volatiles (TO15)	05/06/21	05/08/21	05/08/21	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

July 09, 2021

SDG I.D.: GCI26499

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

July 09, 2021

SDG I.D.: GCI26499

Project ID: MIDWAY DENTAL

Client Id	Lab Id	Matrix
MWIA-01	CI26499	AIR
MWIA-02	CI26500	AIR
MWIA-03	CI26501	AIR
MWIA-04	CI26502	AIR
MWIA-05	CI26503	AIR
MWAA-01	CI26504	AIR
MWFB	CI26505	AIR
MWDUP	CI26506	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

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 28614

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 14:44
05/07/21 16:10

Time

Project ID: MIDWAY DENTAL
Client ID: MWIA-01

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26499

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-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	2.59	1.00	1.00	6.15	2.37	2.37	05/07/21	KCA	1
Benzene	0.063	0.050	0.050	0.20	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	0.073	0.020	0.020	0.46	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	0.400	0.200	0.200	1.98	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	0.183	0.150	0.150	0.79	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	0.700	0.150	0.150	3.04	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	0.415	0.400	0.400	1.44	1.39	1.39	05/07/21	KCA	1
o-Xylene	0.161	0.150	0.150	0.70	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	0.186	0.100	0.100	1.26	0.68	0.68	05/07/21	KCA	1
Toluene	0.270	0.200	0.200	1.02	0.75	0.75	05/07/21	KCA	1
Trichloroethene	0.058	0.037	0.037	0.31	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	0.375	0.150	0.150	2.11	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	97	%	%	97	%	%	05/07/21	KCA	1

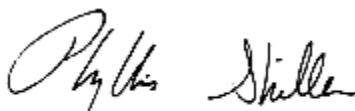
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	96	%	%	96	%	%	05/07/21	KCA	1

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

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 28591

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 14:45
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26500

Project ID: MIDWAY DENTAL
Client ID: MWIA-02

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-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	2.92	1.00	1.00	6.93	2.37	2.37	05/07/21	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	0.076	0.020	0.020	0.48	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	0.398	0.200	0.200	1.97	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	0.361	0.150	0.150	1.57	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	1.27	0.150	0.150	5.51	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	0.609	0.400	0.400	2.11	1.39	1.39	05/07/21	KCA	1
o-Xylene	0.268	0.150	0.150	1.16	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	05/07/21	KCA	1
Toluene	0.445	0.200	0.200	1.68	0.75	0.75	05/07/21	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	0.432	0.150	0.150	2.43	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	102	%	%	102	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	98	%	%	98	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	98	%	%	98	%	%	05/07/21	KCA	1

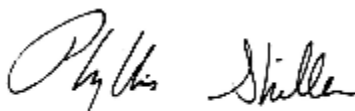
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	96	%	%	96	%	%	05/07/21	KCA	1

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:

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Phyllis Shiller, Laboratory Director

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 23328

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 14:42
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26501

Project ID: MIDWAY DENTAL
Client ID: MWIA-03

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-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	3.48	1.00	1.00	8.26	2.37	2.37	05/07/21	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	0.084	0.020	0.020	0.53	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	0.425	0.200	0.200	2.10	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	0.268	0.150	0.150	1.16	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	0.971	0.150	0.150	4.21	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	05/07/21	KCA	1
o-Xylene	0.203	0.150	0.150	0.88	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	0.138	0.100	0.100	0.94	0.68	0.68	05/07/21	KCA	1
Toluene	0.333	0.200	0.200	1.25	0.75	0.75	05/07/21	KCA	1
Trichloroethene	0.073	0.037	0.037	0.39	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	0.381	0.150	0.150	2.14	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	98	%	%	98	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	98	%	%	98	%	%	05/07/21	KCA	1

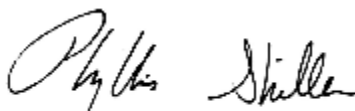
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	97	%	%	97	%	%	05/07/21	KCA	1

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

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Phyllis Shiller, Laboratory Director

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 23332

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 14:56
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26502

Project ID: MIDWAY DENTAL
Client ID: MWIA-04

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-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	4.35	1.00	1.00	10.3	2.37	2.37	05/07/21	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	0.076	0.020	0.020	0.48	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	0.410	0.200	0.200	2.03	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	0.252	0.150	0.150	1.09	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	0.849	0.150	0.150	3.68	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	1.55	0.400	0.400	5.38	1.39	1.39	05/07/21	KCA	1
o-Xylene	0.206	0.150	0.150	0.89	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	05/07/21	KCA	1
Toluene	1.52	0.200	0.200	5.72	0.75	0.75	05/07/21	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	0.397	0.150	0.150	2.23	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	96	%	%	96	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	97	%	%	97	%	%	05/07/21	KCA	1

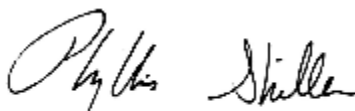
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	98	%	%	98	%	%	05/07/21	KCA	1

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 Limit

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:

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Phyllis Shiller, Laboratory Director

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 21339

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 13:58
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26503

Project ID: MIDWAY DENTAL
Client ID: MWIA-05

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-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	2.73	1.00	1.00	6.48	2.37	2.37	05/07/21	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	ND	0.020	0.020	ND	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	0.401	0.200	0.200	1.98	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	0.173	0.150	0.150	0.75	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	0.648	0.150	0.150	2.81	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	05/07/21	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	05/07/21	KCA	1
Toluene	ND	0.200	0.200	ND	0.75	0.75	05/07/21	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	0.362	0.150	0.150	2.03	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	101	%	%	101	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	99	%	%	99	%	%	05/07/21	KCA	1

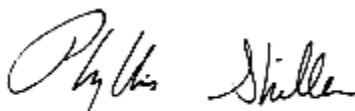
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	96	%	%	96	%	%	05/07/21	KCA	1

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.

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Phyllis Shiller, Laboratory Director

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 28580

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 13:20
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26504

Project ID: MIDWAY DENTAL
Client ID: MWAA-01

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	1.48	1.00	1.00	3.51	2.37	2.37	05/07/21	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	0.076	0.020	0.020	0.48	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	0.374	0.200	0.200	1.85	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	ND	0.150	0.150	ND	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	ND	0.150	0.150	ND	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	05/07/21	KCA	1
o-Xylene	ND	0.150	0.150	ND	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	05/07/21	KCA	1
Toluene	ND	0.200	0.200	ND	0.75	0.75	05/07/21	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	0.308	0.150	0.150	1.73	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	100	%	%	100	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	94	%	%	94	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	05/07/21	KCA	1

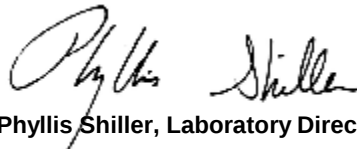
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	93	%	%	93	%	%	05/07/21	KCA	1

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

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Phyllis Shiller, Laboratory Director

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 28548

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 12:38
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26505

Project ID: MIDWAY DENTAL
Client ID: MWFB

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/07/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/07/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/07/21	KCA	1
Acetone	1.02	1.00	1.00	2.42	2.37	2.37	05/07/21	KCA	1
Benzene	0.533	0.050	0.050	1.70	0.16	0.16	05/07/21	KCA	1
Carbon Tetrachloride	0.022	0.020	0.020	0.14	0.13	0.13	05/07/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/07/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/07/21	KCA	1
Dichlorodifluoromethane	ND	0.200	0.200	ND	0.99	0.99	05/07/21	KCA	1
Ethylbenzene	0.173	0.150	0.150	0.75	0.65	0.65	05/07/21	KCA	1
m,p-Xylene	0.965	0.150	0.150	4.19	0.65	0.65	05/07/21	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	05/07/21	KCA	1
o-Xylene	0.587	0.150	0.150	2.55	0.65	0.65	05/07/21	KCA	1
Tetrachloroethene	0.124	0.100	0.100	0.84	0.68	0.68	05/07/21	KCA	1
Toluene	0.589	0.200	0.200	2.22	0.75	0.75	05/07/21	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	05/07/21	KCA	1
Trichlorofluoromethane	ND	0.150	0.150	ND	0.84	0.84	05/07/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/07/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/07/21	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	101	%	%	101	%	%	05/07/21	KCA	1
% IS-1,4-Difluorobenzene	93	%	%	93	%	%	05/07/21	KCA	1
% IS-Bromochloromethane	94	%	%	94	%	%	05/07/21	KCA	1

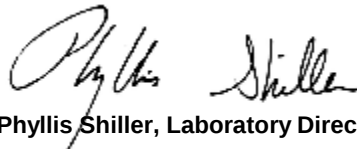
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	96	%	%	96	%	%	05/07/21	KCA	1

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

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Analysis Report

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Sample Information

Matrix: AIR
Location Code: WALDENE-IPARK
Rush Request: 24 Hour
P.O.#: IPARK0118.51
Canister Id: 13634

Custody Information

Collected by: KAW
Received by: LB
Analyzed by: see "By" below

Date

05/06/21 14:41
05/07/21 16:10

Time

Laboratory Data

SDG ID: GCI26499
Phoenix ID: CI26506

Project ID: MIDWAY DENTAL
Client ID: MWDUP

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-Trichloroethane	ND	0.200	0.200	ND	1.09	1.09	05/08/21	KCA	1
1,1-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/08/21	KCA	1
1,2,4-Trichlorobenzene	ND	0.250	0.250	ND	1.85	1.85	05/08/21	KCA	1
1,2-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/08/21	KCA	1
1,3-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/08/21	KCA	1
1,4-Dichlorobenzene	ND	0.150	0.150	ND	0.90	0.90	05/08/21	KCA	1
Acetone	2.78	1.00	1.00	6.60	2.37	2.37	05/08/21	KCA	1
Benzene	ND	0.050	0.050	ND	0.16	0.16	05/08/21	KCA	1
Carbon Tetrachloride	0.037	0.020	0.020	0.23	0.13	0.13	05/08/21	KCA	1
Chlorobenzene	ND	0.200	0.200	ND	0.92	0.92	05/08/21	KCA	1
Cis-1,2-Dichloroethene	ND	0.050	0.050	ND	0.20	0.20	05/08/21	KCA	1
Dichlorodifluoromethane	0.440	0.200	0.200	2.17	0.99	0.99	05/08/21	KCA	1
Ethylbenzene	0.258	0.150	0.150	1.12	0.65	0.65	05/08/21	KCA	1
m,p-Xylene	0.864	0.150	0.150	3.75	0.65	0.65	05/08/21	KCA	1
Methylene Chloride	ND	0.400	0.400	ND	1.39	1.39	05/08/21	KCA	1
o-Xylene	0.204	0.150	0.150	0.89	0.65	0.65	05/08/21	KCA	1
Tetrachloroethene	ND	0.100	0.100	ND	0.68	0.68	05/08/21	KCA	1
Toluene	0.287	0.200	0.200	1.08	0.75	0.75	05/08/21	KCA	1
Trichloroethene	ND	0.037	0.037	ND	0.20	0.20	05/08/21	KCA	1
Trichlorofluoromethane	0.381	0.150	0.150	2.14	0.84	0.84	05/08/21	KCA	1
Trichlorotrifluoroethane	ND	0.150	0.150	ND	1.15	1.15	05/08/21	KCA	1
Vinyl Chloride	ND	0.020	0.020	ND	0.05	0.05	05/08/21	KCA	1
<u>QA/QC Surrogates/Internals</u>									
% Bromofluorobenzene	100	%	%	100	%	%	05/08/21	KCA	1
% IS-1,4-Difluorobenzene	97	%	%	97	%	%	05/08/21	KCA	1
% IS-Bromochloromethane	99	%	%	99	%	%	05/08/21	KCA	1

Client ID: MWDUP

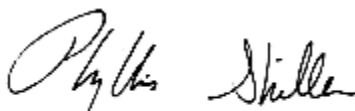
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
% IS-Chlorobenzene-d5	97	%	%	97	%	%	05/08/21	KCA	1

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 Limit

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.

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Phyllis Shiller, Laboratory Director

July 09, 2021

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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



Canister Sampling Information

July 09, 2021

FOR: Attn: Ms. Nora Brew
Walden Environmental Engineering PLLC
16 Spring Street
Oyster Bay, NY 11771

Location Code: WALDENE-IPARK

SDG I.D.: GCI26499

Project ID: MIDWAY DENTAL

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
MWIA-01	CI26499	28614	6.0L	7014	04/22/21	-30	-9	10.8	11.1	2.7	-29	-8	05/06/21 08:05	05/06/21 14:44
MWIA-02	CI26500	28591	6.0L	6987	04/22/21	-30	-9	10.8	11.1	2.7	-30	-9	05/06/21 08:10	05/06/21 14:45
MWIA-03	CI26501	23328	6.0L	5595	04/22/21	-30	-8	10.8	10.9	0.9	-30	-9	05/06/21 08:00	05/06/21 14:42
MWIA-04	CI26502	23332	6.0L	3510	04/22/21	-30	-8	10.8	11.8	8.8	-30	-9	05/06/21 08:17	05/06/21 14:56
MWIA-05	CI26503	21339	6.0L	7023	04/22/21	-30	-10	10.8	11.2	3.6	-28	-9	05/06/21 07:53	05/06/21 13:58
MWAA-01	CI26504	28580	6.0L	5600	04/22/21	-30	-12	10.8	10.5	2.8	-28	-9	05/06/21 07:33	05/06/21 13:20
MWFB	CI26505	28548	6.0L	3511	04/22/21	-30	-9	10.8	11.6	7.1	-30	-9	05/06/21 12:16	05/06/21 12:38
MWDUP	CI26506	13634	6.0L	7004	04/22/21	-30	-9	10.8	11.0	1.8	-30	-9	05/06/21 08:01	05/06/21 14:41



Environmental Laboratories, Inc.
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QA/QC Report

July 09, 2021

QA/QC Data

SDG I.D.: GCI26499

Parameter	Blk ppbv	Blk RL ppbv	Blk ug/m3	Blk RL ug/m3	LCS %	LCSD %	Sample Result ug/m3	Sample Dup ug/m3	Sample Result ppbv	Sample Dup ppbv	DUP RPD	% Rec Limits	% RPD Limits
QA/QC Batch 574601 (ppbv), QC Sample No: CI26489 (CI26499, CI26500, CI26501, CI26502, CI26503, CI26504, CI26505, CI26506)													
Volatiles													
1,1,1-Trichloroethane	ND	0.200	ND	1.09	116	115	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	122	122	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.250	ND	1.85	141	129	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.150	ND	0.90	114	113	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.150	ND	0.90	114	113	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.150	ND	0.90	112	111	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	114	110	7.93	7.60	3.34	3.20	NC	70 - 130	25
Benzene	ND	0.050	ND	0.16	100	102	0.16	ND	0.050	ND	NC	70 - 130	25
Carbon Tetrachloride	ND	0.020	ND	0.13	120	119	0.49	0.47	0.078	0.075	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	108	107	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	118	121	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	97	92	2.13	1.99	0.432	0.403	NC	70 - 130	25
Ethylbenzene	ND	0.150	ND	0.65	107	107	107	106	24.7	24.5	0.8	70 - 130	25
m,p-Xylene	ND	0.150	ND	0.65	113	111	389	384	89.7	88.6	1.2	70 - 130	25
Methylene Chloride	ND	0.400	ND	1.39	108	107	2.10	2.14	0.606	0.617	NC	70 - 130	25
o-Xylene	ND	0.150	ND	0.65	108	106	82.5	80.3	19.0	18.5	2.7	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	110	107	ND	ND	ND	ND	NC	70 - 130	25
Toluene	ND	0.200	ND	0.75	108	107	1.78	1.75	0.473	0.465	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	112	110	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.150	ND	0.84	124	123	2.39	2.24	0.426	0.399	NC	70 - 130	25
Trichlorotrifluoroethane	ND	0.150	ND	1.15	116	115	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.020	ND	0.05	116	114	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	101	%	101	%	105	103	105	105	105	105	NC	70 - 130	25
% IS-1,4-Difluorobenzene	103	%	103	%	103	107	93	95	93	95	NC	60 - 140	25
% IS-Bromochloromethane	105	%	105	%	106	109	94	97	94	97	NC	60 - 140	25
% IS-Chlorobenzene-d5	101	%	101	%	105	108	93	95	93	95	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
July 09, 2021

Sample Criteria Exceedances Report

Criteria: None

State: NY

GCI26499 - WALDENE-IPARK

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

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



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-1102

07/09/2011

Report to: Nora Brew, P.E.

Address: 16 Spring Street, BAYVIEW 11771

Project Mgr: Nora Brew

Phone #: (516) 684-7200

Invoice to:

Carl Mordheit

Address:

485 West Putnam Ave
Greenwich CT 06830

P.O. #

Quote # 1 Park 0118.51

Project Name: Midway

Location: B710

State: NY

Sampled by: KAW

Data Delivery:

☐ Fax #:

Email: KAW@PHOENIXLABS.COM

Walden-associates.com

Is Canister Returned Unused? Y/N

Phoenix Environmental Laboratories, Inc.

Phoenix ID #	Client Sample ID	LAB USE ONLY				Flow Controller Setting (ml/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start ("Hg)	Canister Pressure at End ("Hg)	MATRIX			ANALYSES		Is Canister Returned Unused?
		Canister ID #	Canister Size (L)	Outgoing Canister Pressure ("Hg)	Incoming Canister Pressure ("Hg)							Soil Gas	Grab (C) Composite (C)	Ambient/Indoor Air	TO-14	TO-15	
26499	MINIA-01	28014	6.0	-30	-9	10.8	8:05	14:41	5/6/21	-29	-8	X	G	X	X		
26500	MINIA-02	28591			-9		8:10	14:45		-30	-9	X	G	X	X		
26501	MINIA-03	2338			-8		8:00	14:42		-30	-9	X	G	X	X		
26502	MINIA-04	23332			-8		8:17	14:56		-30	-9	X	G	X	X		
26503	MINIA-05	21339			-10		7:53	13:58		-28	-9	X	G	X	X		
26504	MINIA-06																
26505	MINIA-01	28580			-12		7:33	13:20		-28	-9	X	G	X	X		
26506	MINIA-02	28548			-9		12:16	12:38		-30	-9	X	G	X	X		
26507	MINIA-03	13634			-9		8:01	14:41		-30	-9	X	G	X	X		
26508	MINIA-04	23336									0						Y

Relinquished by: <u>Nora Brew</u>	Accepted by: <u>Paul</u>	Date: <u>5/7/21</u>	Time: <u>11:45</u>	Criteria Requested:	Deliverable:	Data Format:
					RCP ☐	Excel ☒
					MCP ☐	Equis ☐
						PDF ☒
						Other: ☐
						GISKey ☐

State where samples collected: NY

I attest that all media released by Phoenix Environmental Laboratories, Inc. have been received in good working condition and agree to the terms and conditions as listed on the back of this document.

24-TAT

Modified TO-15 analysis as per project OAR provided
* Canister # 23336 returned unused.

Shannon Wilhelm

Subject: FW: Walden COC's
Attachments: 20210507125150.pdf

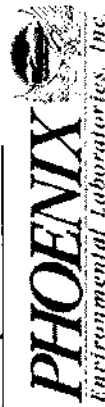
From: Michael Lapman
Sent: Friday, May 07, 2021 1:57 PM
To: Shannon Wilhelm
Subject: FW: Walden COC's

Shannon:

The Midway Dental gets a 24-Hour TAT and Sprout Creek is standard TAT. They have special reporting lists and data packages as well.

Thank you!

Regards,
Michael Lapman
Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
Manchester, CT 06040
Direct Line: 917.449.0850
Laboratory: 860.812.0086
www.phoenixlabs.com



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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: Walden Environmental Engineering PLLC

MIDWAY DENTAL

Laboratory Project: GCI26499

Volatile TO15
Ver 1

Organic Data Flags

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

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

Q Qualifiers:

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

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

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

L - Biased Low

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

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

B - This compound was also present in the method blank

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

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

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

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

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



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



SDG: GCI26499

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: MIDWAY DENTAL, Walden Environmental Engineering PLLC

Form 1 (Analysis):

No observations noted.

Form 2 (Surrogates):

All surrogates met criteria with the following exceptions: None.

Form 3 (Laboratory Control/Matrix Spike):

Sample: CI26489 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: CI26489 LCSD
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM24 0507_08.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM24 0421_02.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0507_03.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM24 04/21/21 - 04/22/21
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM24 0507_03.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: 1,2,4-Trichlorobenzene -23.0% (20), 1,2,4-Trichlorobenzene(sim) - 41.0% (20)

Form 8 (Internal Standard and Retention Time):

File: CHEM24 - 24AIR_0421.M / 0507_03.D Full
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: GCI26499

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: MIDWAY DENTAL, Walden Environmental Engineering PLLC

File: CHEM24 - 24AIR_0421.M / 0507_03.D Sim

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

File: CHEM24 - 24AIR_0421.M / Average Full

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

File: CHEM24 - 24AIR_0421.M / Average Sim

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

05/17/21

Alejandro Paredes
Project Manager

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SDG: GCI26499

QC Batch Id: 574601 QC Sample Id: CI26489

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CI26489 LCS	CI26489 LCS	105				0
02	CI26489 LCSD	CI26489 LCSD	103				0
03	CI26489 BLANK	CI26489 BLANK	101				0
04	MWIA-01	CI26499	102				0
05	MWIA-02	CI26500	102				0
06	MWIA-03	CI26501	98				0
07	MWIA-04	CI26502	100				0
08	MWIA-05	CI26503	101				0
09	MWAA-01	CI26504	100				0
10	MWFB	CI26505	101				0
11	MWDUP	CI26506	100				0
12	CI26489 QC	CI26489 QC	105				0
13	26489 356cc dup	CI26489 DUP	105				0
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

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

Page 35 of 220

4A
AIR METHOD BLANK SUMMARY

Client ID

CI26489 BLANK

Lab Name: Phoenix Environmental Labs

Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCI26499

Lab File ID: 0507_08.D

Lab Sample ID: CI26489 BLK

Date Analyzed: 05/07/2021

Time Analyzed: 18:10

GC Column: RTX-VMS

Lab Batch ID: 574601

Instrument ID: CHEM24

Heated Purge:(Y/N) Y

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

	CLIENT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	CI26489 LCS	CI26489 LCS	0507_05.D	16:09
02	CI26489 LCSD	CI26489 LCS	0507_06.D	17:01
03	MWIA-01	CI26499	0507_10.D	19:34
04	MWIA-02	CI26500	0507_11.D	20:17
05	MWIA-03	CI26501	0507_12.D	21:00
06	MWIA-04	CI26502	0507_13.D	21:44
07	MWIA-05	CI26503	0507_14.D	22:27
08	MWAA-01	CI26504	0507_15.D	23:12
09	MWFB	CI26505	0507_16.D	23:55
10	MWDUP	CI26506	0507_17.D	00:37
11	CI26489 QC	CI26489	0507_21.D	03:39
12	26489 356cc dup	CI26489 DUP	0507_22.D	04:20
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCI26499

Lab File ID: 0421_02.D

BFB Injection Date: 04/21/21

Instrument ID: CHEM24

BFB Injection Time: 22:17

GC Column: RTX-VMS

Heated Purge: (Y/N) Y

AutoFind: Scans 1653, 1654, 1655; Background Corrected with Scan 1644

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	28.2
75	30.0 - 66.0% of mass 95	46.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	93.9
175	4.0 - 9.0% of mass 174	7.6 (7.1)1
176	93.0 - 101.0% of mass 174	94.9 (89.1)1
177	5.0 - 9.0% of mass 176	6.9 (6.1)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.02	0.02	0421_03.D	04/21/21	22:47	
02	ICAL 0.035	0.035	0421_04.D	04/21/21	23:16	
03	ICAL 0.05	0.05	0421_05.D	04/22/21	00:34	
04	ICAL 0.1	0.10	0421_06.D	04/22/21	01:06	
05	ICAL 0.25	0.20	0421_07.D	04/22/21	01:39	
06	ICAL 0.5	0.50	0421_08.D	04/22/21	02:14	
07	ICAL 2.5	2.5	0421_09.D	04/22/21	02:49	
08	ICAL 5	5.0	0421_10.D	04/22/21	03:21	
09	ICAL 25	25	0421_11.D	04/22/21	03:57	
10	ICAL 40	40	0421_12.D	04/22/21	04:37	
11	ICAL 1	1ppb	0421_14.D	04/22/21	05:40	
12	ICAL 10	10ppb	0421_15.D	04/22/21	06:12	
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_02.D
 Acq On : 21 Apr 2021 10:17 pm
 Operator : Keith
 Sample : 0/0
 Misc :
 ALS Vial : 46 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Apr 22 08:12:43 2021

AutoFind: Scans 1653, 1654, 1655; Background Corrected with Scan 1644

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	28.2	62064	PASS
75	95	30	66	46.4	102224	PASS
95	95	100	100	100.0	220096	PASS
96	95	5	9	6.7	14695	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.9	206763	PASS
175	174	4	9	7.6	15650	PASS
176	174	93	101	94.9	196181	PASS
177	176	5	9	6.9	13497	PASS

24AIR_0421.M Thu Apr 22 08:16:10 2021

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs

Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: _____

SAS No.: _____

SDG No.: GCI26499

Lab File ID: 0507_03.D

BFB Injection Date: 05/07/21

Instrument ID: CHEM24

BFB Injection Time: 14:56

GC Column: RTX-VMS

Heated Purge: (Y/N) Y

AutoFind: Scans 1651, 1652, 1653; Background Corrected with Scan 1644

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	32.8
75	30.0 - 66.0% of mass 95	49.5
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	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	89.7
175	4.0 - 9.0% of mass 174	7.7 (6.9)1
176	93.0 - 101.0% of mass 174	95.6 (85.7)1
177	5.0 - 9.0% of mass 176	6.8 (5.8)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 cc	0507_03.D	05/07/21	14:56	
02	CI26489 LCS	CI26489 LCS	0507_05.D	05/07/21	16:09	
03	CI26489 LCSD	CI26489 LCSD	0507_06.D	05/07/21	17:01	
04	CI26489 BLANK	CI26489 BLANK	0507_08.D	05/07/21	18:10	
05	MWIA-01	CI26499	0507_10.D	05/07/21	19:34	
06	MWIA-02	CI26500	0507_11.D	05/07/21	20:17	
07	MWIA-03	CI26501	0507_12.D	05/07/21	21:00	
08	MWIA-04	CI26502	0507_13.D	05/07/21	21:44	
09	MWIA-05	CI26503	0507_14.D	05/07/21	22:27	
10	MWAA-01	CI26504	0507_15.D	05/07/21	23:12	
11	MWFB	CI26505	0507_16.D	05/07/21	23:55	
12	MWDUP	CI26506	0507_17.D	05/08/21	00:37	
13	CI26489 QC	CI26489 QC	0507_21.D	05/08/21	03:39	
14	26489 356cc dup	CI26489 DUP	0507_22.D	05/08/21	04:20	
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_03.D
 Acq On : 7 May 2021 2:56 pm
 Operator : Keith
 Sample : 1ppb cc
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

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

Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Apr 22 08:23:13 2021

AutoFind: Scans 1651, 1652, 1653; Background Corrected with Scan 1644

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	32.8	57973	PASS
75	95	30	66	49.5	87557	PASS
95	95	100	100	100.0	176725	PASS
96	95	5	9	6.4	11316	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.7	158536	PASS
175	174	4	9	7.7	12255	PASS
176	174	93	101	95.6	151509	PASS
177	176	5	9	6.8	10262	PASS

24AIR_0421.M Fri May 07 16:26:56 2021

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCI26499
 Lab Method / File Id: 24AIR_0421.M / Average Date Analyzed: 04/22/21
 Instrument ID: CHEM24 Time Analyzed: 5:40
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	168673	5.30	557838	7.24	282705	10.83			Average
UPPER LIMIT	236985	5.63	783762	7.57	397200	11.16			Average
LOWER LIMIT	100360	4.97	331913	6.91	168209	10.50			Average
CLIENT ID									
01 ICAL 0.25	168234	5.29	560563	7.24	282658	10.83			0421_07.D
02 ICAL 0.5	163491	5.29	536398	7.24	271397	10.83			0421_08.D
03 ICAL 2.5	164690	5.29	543332	7.24	279424	10.83			0421_09.D
04 ICAL 5	161930	5.29	535126	7.24	270891	10.83			0421_10.D
05 ICAL 25	164069	5.30	544326	7.24	276989	10.83			0421_11.D
06 ICAL 40	176247	5.31	586042	7.25	297788	10.83			0421_12.D
07 ICAL 1	175257	5.29	578680	7.23	293034	10.83			0421_14.D
08 ICAL 10	175465	5.29	578235	7.24	289458	10.83			0421_15.D
09									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									

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

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

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

FORM VIII VOA

8A
AIR INTERNAL STANDARD AREA AND RT SUMMARY
Sim Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCI26499
 Lab Method / File Id: 24AIR_0421.M / Average Date Analyzed: 04/22/21
 Instrument ID: CHEM24 Time Analyzed: 5:40
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) Area Avg #	RT Avg #	IS2 (DFB) Area Avg #	RT Avg #	IS3 (CBZ) Area Avg #	RT Avg #			LAB FILE ID
12 HOUR STD	172710	5.30	554635	7.24	279615	10.83			Average
UPPER LIMIT	242657	5.63	779262	7.57	392859	11.16			Average
LOWER LIMIT	102762	4.97	330008	6.91	166371	10.50			Average
CLIENT ID									
01 ICAL 0.02	171220	5.30	561474	7.24	280784	10.83			0421_03.D
02 ICAL 0.035	170543	5.31	553866	7.25	270379	10.83			0421_04.D
03 ICAL 0.05	168311	5.30	539820	7.24	276618	10.83			0421_05.D
04 ICAL 0.1	174068	5.30	558854	7.24	281508	10.83			0421_06.D
05 ICAL 0.25	173355	5.29	560563	7.24	282658	10.83			0421_07.D
06 ICAL 0.5	168896	5.30	536398	7.24	271397	10.83			0421_08.D
07 ICAL 2.5	170376	5.30	543332	7.24	279424	10.83			0421_09.D
08 ICAL 5	167130	5.29	535126	7.24	270891	10.83			0421_10.D
09 ICAL 1	181886	5.29	578680	7.23	293034	10.83			0421_14.D
10 ICAL 10	181311	5.30	578235	7.24	289458	10.83			0421_15.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
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCI26499
 Lab Method / File Id: 24AIR_0421.M / 0507_03.D Date Analyzed: 05/07/21
 Instrument ID: CHEM24 Time Analyzed: 14:56
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	134080	5.27	434324	7.22	228458	10.82			0507_03.D
UPPER LIMIT	188382	5.60	610225	7.55	320983	11.15			0507_03.D
LOWER LIMIT	79778	4.94	258423	6.89	135933	10.49			0507_03.D
CLIENT ID									
01 CCAL 1	134080	5.27	434324	7.22	228458	10.82			0507_03.D
02 CI26489 LCS	142191	5.27	449496	7.22	239103	10.82			0507_05.D
03 CI26489 LCSD	145955	5.27	463804	7.22	245607	10.82			0507_06.D
04 CI26489 BLANK	140345	5.27	448239	7.22	230926	10.82			0507_08.D
05 MWIA-01	130657	5.27	420927	7.22	219864	10.82			0507_10.D
06 MWIA-02	131478	5.27	424053	7.22	220025	10.82			0507_11.D
07 MWIA-03	130978	5.27	422846	7.22	222439	10.82			0507_12.D
08 MWIA-04	130247	5.27	419122	7.22	223624	10.82			0507_13.D
09 MWIA-05	132072	5.27	420782	7.22	220158	10.81			0507_14.D
10 MWAA-01	125837	5.27	406553	7.22	211565	10.82			0507_15.D
11 MWFB	125637	5.27	404264	7.22	219331	10.82			0507_16.D
12 MWDUP	132968	5.27	419876	7.22	222009	10.82			0507_17.D
13 CI26489 QC	125862	5.27	402197	7.22	212995	10.82			0507_21.D
14 26489 356cc dup	130340	5.27	412447	7.23	217552	10.82			0507_22.D
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: WALDENE-IPARK
 Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCI26499
 Lab Method / File Id: 24AIR_0421.M / 0507_03.D Date Analyzed: 05/07/21
 Instrument ID: CHEM24 Time Analyzed: 14:56
 GC Column: RTX-VMS ID: 0.18 (mm) Heated Purge:(Y/N) Y

	IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #			LAB FILE ID
12 HOUR STD	140703	5.28	434324	7.22	228458	10.82			0507_03.D
UPPER LIMIT	197688	5.61	610225	7.55	320983	11.15			0507_03.D
LOWER LIMIT	83718	4.95	258423	6.89	135933	10.49			0507_03.D
CLIENT ID									
01 CCAL 1	140703	5.28	434324	7.22	228458	10.82			0507_03.D
02 CI26489 LCS	147481	5.27	449496	7.22	239103	10.82			0507_05.D
03 CI26489 LCSD	150613	5.27	463804	7.22	245607	10.82			0507_06.D
04 CI26489 BLANK	145897	5.27	448239	7.22	230926	10.82			0507_08.D
05 MWIA-01	138421	5.27	420927	7.22	219864	10.82			0507_10.D
06 MWIA-02	138549	5.27	424053	7.22	220025	10.82			0507_11.D
07 MWIA-03	137339	5.27	422846	7.22	222439	10.82			0507_12.D
08 MWIA-04	139021	5.27	419122	7.22	223624	10.82			0507_13.D
09 MWIA-05	139291	5.27	420782	7.22	220158	10.81			0507_14.D
10 MWAA-01	133850	5.27	406553	7.22	211565	10.82			0507_15.D
11 MWFB	133317	5.27	404264	7.22	219331	10.82			0507_16.D
12 MWDUP	140594	5.27	419876	7.22	222009	10.82			0507_17.D
13 CI26489 QC	133420	5.28	402197	7.22	212995	10.82			0507_21.D
14 26489 356cc dup	136347	5.28	412447	7.23	217552	10.82			0507_22.D
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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_10.D
 Acq On : 7 May 2021 7:34 pm
 Operator : Keith
 Client ID : MWIA-01
 Lab ID : CI26499
 ALS Vial : 9 Sample Multiplier: 1

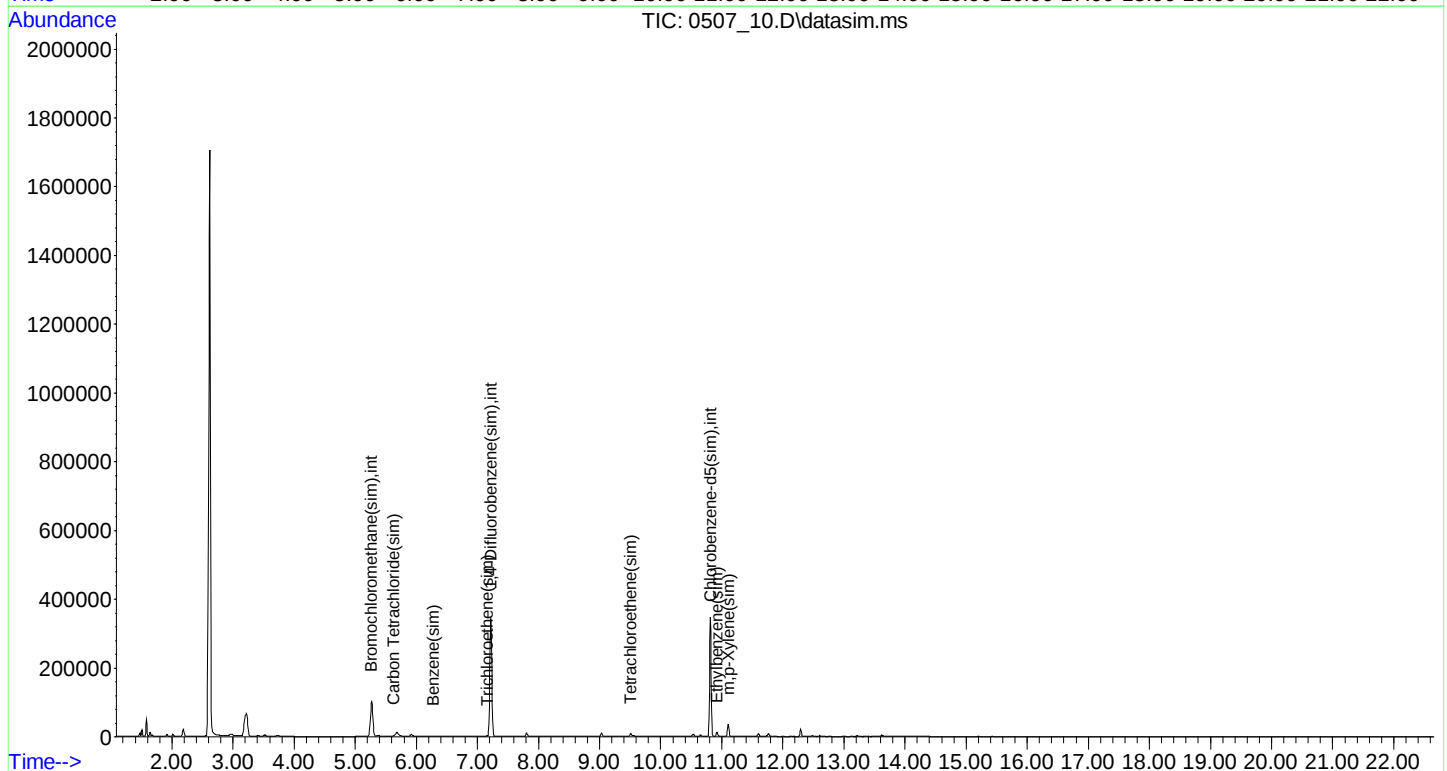
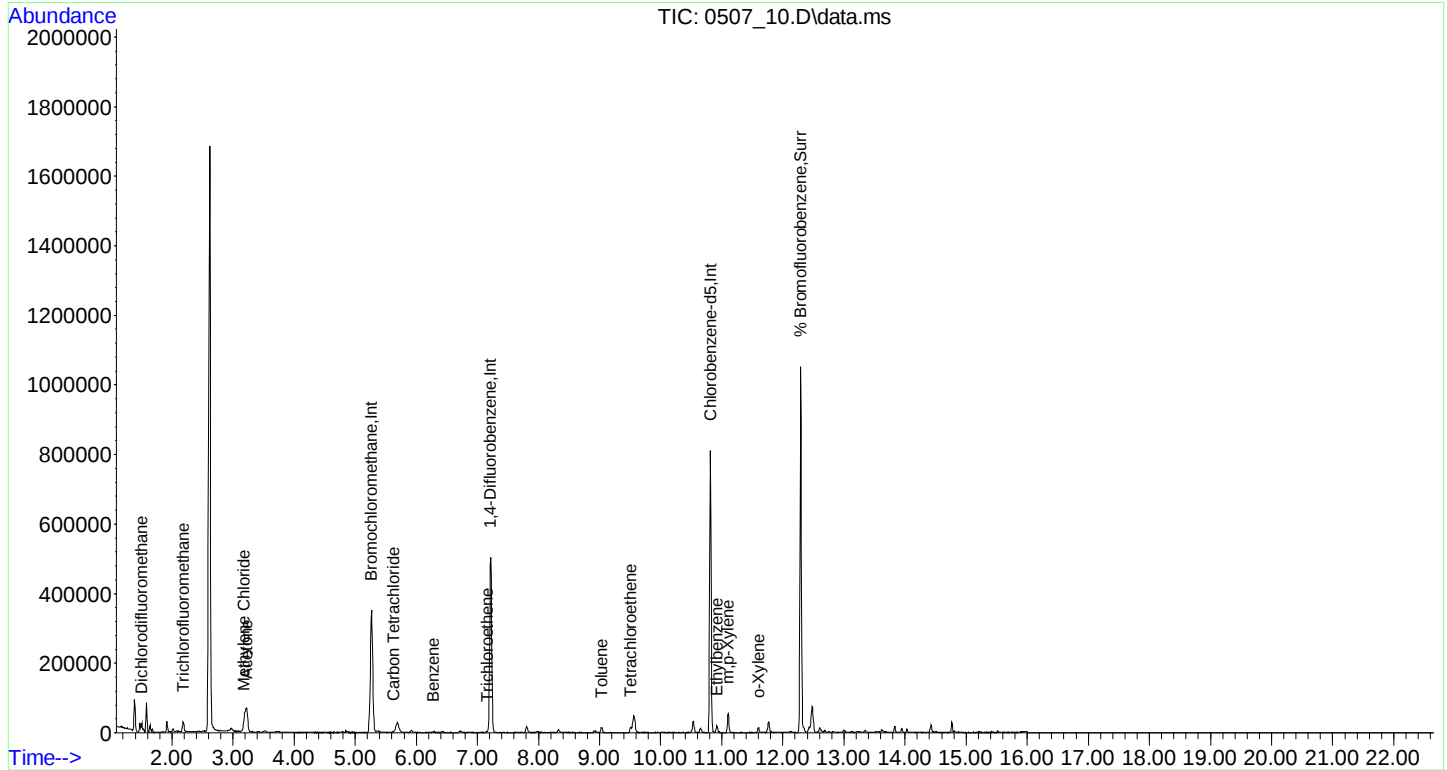
Quant Time: May 08 14:46:41 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

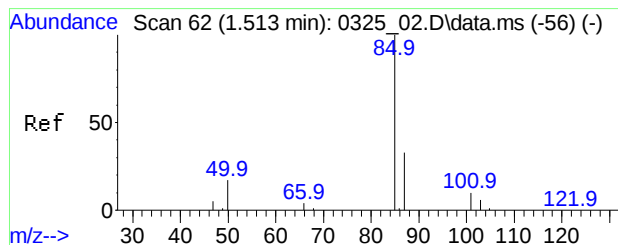
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.267	130	130657	10.000	ng	-0.03
36) 1,4-Difluorobenzene	7.220	114	420927	10.000	ng	-0.02
53) Chlorobenzene-d5	10.818	82	219864	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.270	130	138421	10.000	ng	#-0.02
95) 1,4-Difluorobenzene(sim)	7.220	114	420927	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.818	82	219864	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	314958	10.214	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	102.10%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.506	85	11602	0.400	ppbv	99
12) Acetone	3.224	43	88508	2.593	ppbv	96
13) Trichlorofluoromethane	2.184	101	12820	0.375	ppbv	97
17) Methylene Chloride	3.176	49	9641	0.415	ppbv	91
33) Benzene	6.281	78	2242	0.072	ppbv	96
34) Carbon Tetrachloride	5.634	117	2806	0.087	ppbv	93
39) Trichloroethene	7.158	130	1033	0.060	ppbv#	85
48) Toluene	9.034	91	10531	0.270	ppbv	95
52) Tetrachloroethene	9.510	166	4619	0.191	ppbv	94
56) Ethylbenzene	10.920	91	10743	0.197	ppbv	87
57) m, p-Xylene	11.106	91	29114	0.700	ppbv	97
61) o-Xylene	11.600	91	7245	0.161	ppbv	96
86] Benzene(sim)	6.284	78	2408	0.063	ppbv	94
87] Carbon Tetrachloride(sim)	5.634	117	2533	0.073	ppbv#	92
98] Trichloroethene(sim)	7.161	130	1098	0.058	ppbv	95
104] Tetrachloroethene(sim)	9.513	166	4823	0.186	ppbv	95
108] Ethylbenzene(sim)	10.923	91	11686	0.183	ppb	99
109] m, p-Xylene(sim)	11.106	91	29114	0.676	ppbv	97

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_10.D
Acq On : 7 May 2021 7:34 pm
Operator : Keith
Client ID : MWIA-01
Lab ID : CI26499
ALS Vial : 9 Sample Multiplier: 1

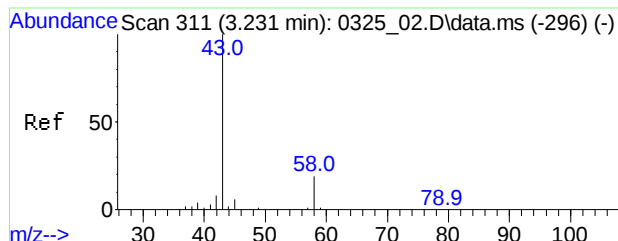
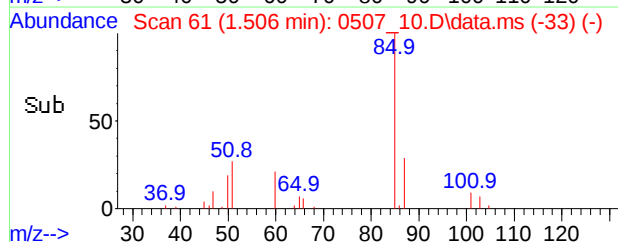
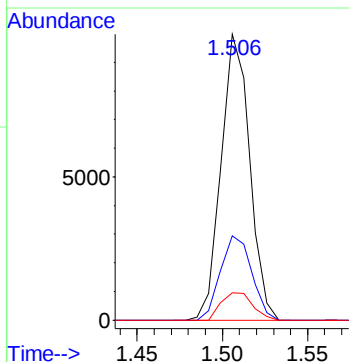
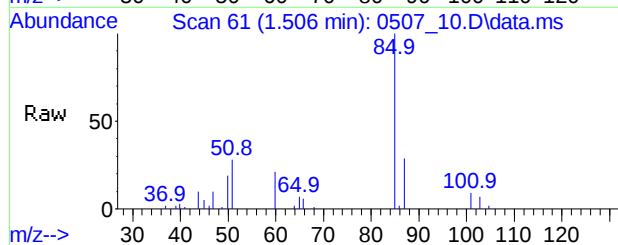
Quant Time: May 08 14:46:41 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





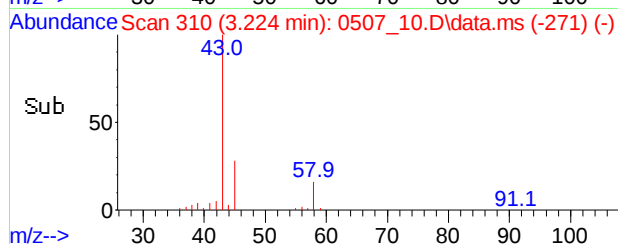
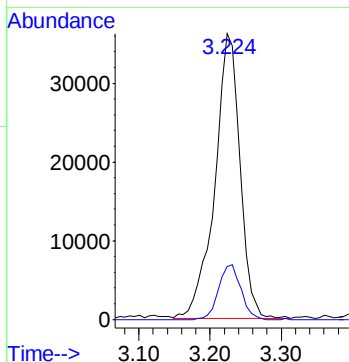
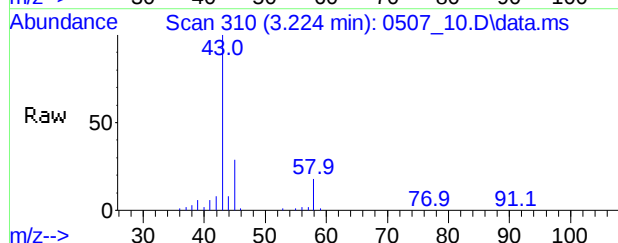
#3
Dichlorodifluoromethane
Conc: 8\$ 0.400 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

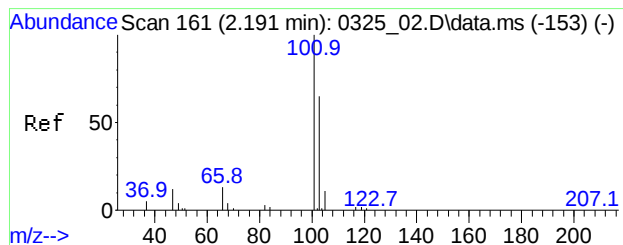
Tgt Ion: 85 Resp: 11602
Ion Ratio Lower Upper
85 100
87 32.3 25.8 38.8
101 10.6 7.3 10.9



#12
Acetone
Conc: 8\$ 2.593 ppbv
RT: 3.224 min Scan# 310
Delta R.T. -0.034 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

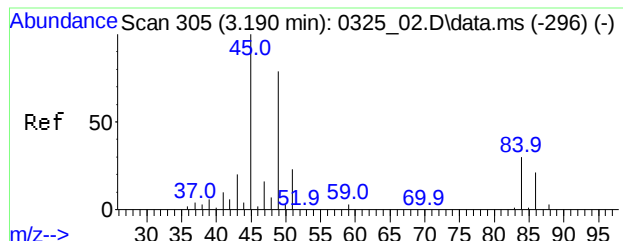
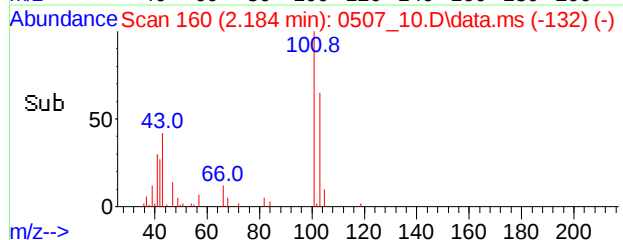
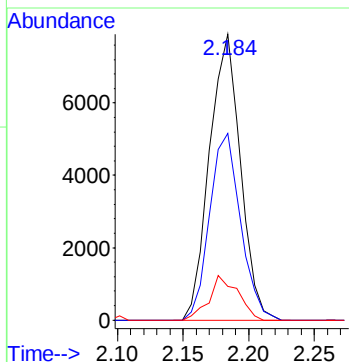
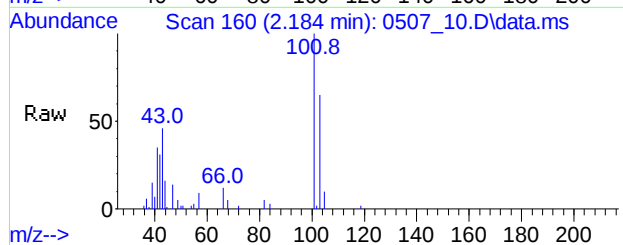
Tgt Ion: 43 Resp: 88508
Ion Ratio Lower Upper
43 100
58 17.1 15.0 22.4





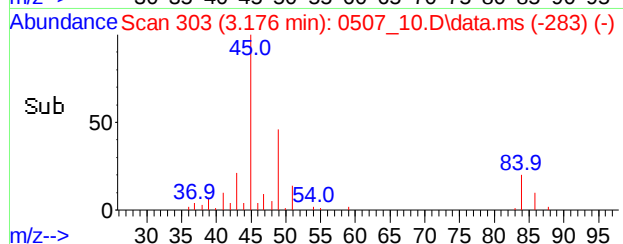
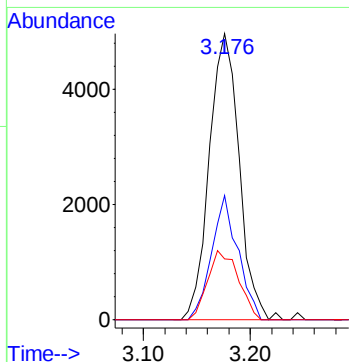
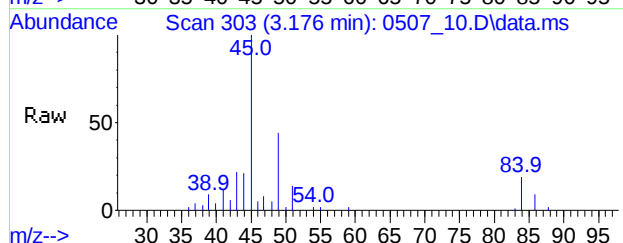
#13
Trichlorofluoromethane
Conc: 8\$ 0.375 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

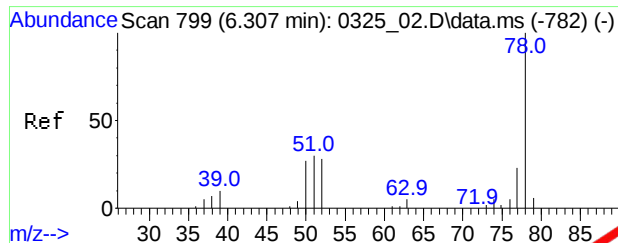
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.3	54.6	82.0
66	14.5	12.2	18.4



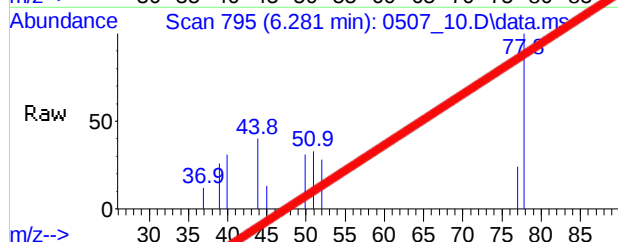
#17
Methylene Chloride
Conc: 8\$ 0.415 ppbv
RT: 3.176 min Scan# 303
Delta R.T. -0.014 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	38.1	36.2	54.2
86	24.8	22.3	33.5

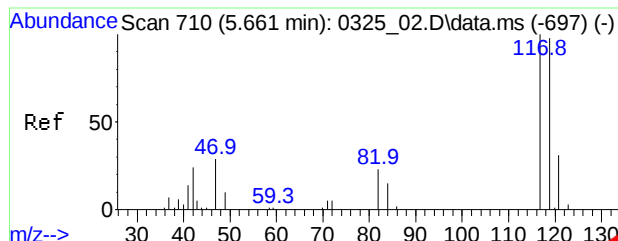
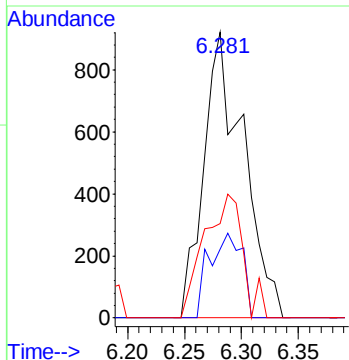
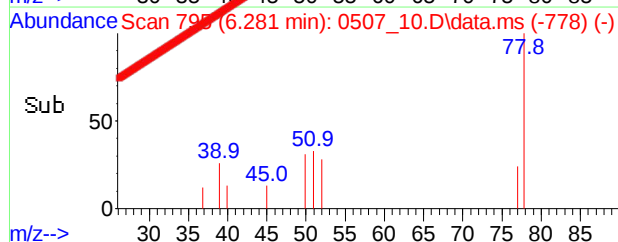




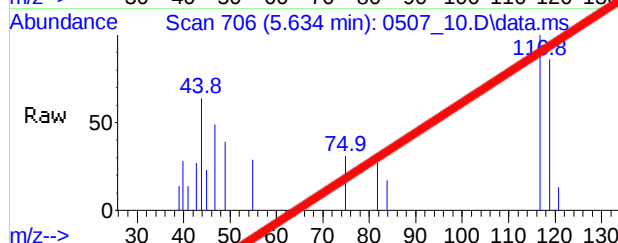
#33
Benzene
Conc: 8% Below Cal
RT: 6.281 min Scan# 795
Delta R.T. -0.033 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm



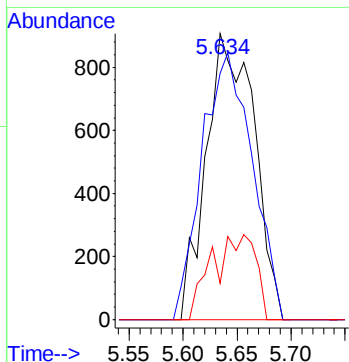
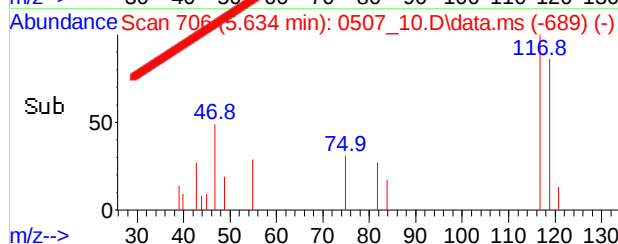
Tgt Ion: 78 Resp: 2242
Ion Ratio Lower Upper
78 100
77 24.4 19.1 28.7
51 41.9 30.3 45.5

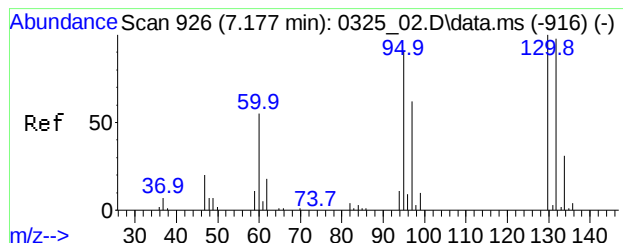


#34
Carbon Tetrachloride
Conc: 8% Below Cal
RT: 5.634 min Scan# 706
Delta R.T. -0.027 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

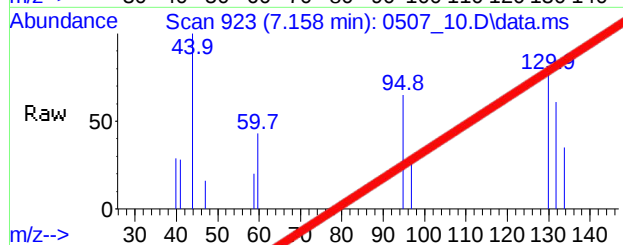


Tgt Ion: 117 Resp: 2806
Ion Ratio Lower Upper
117 100
119 97.7 85.1 125.1
121 27.2 11.0 51.0

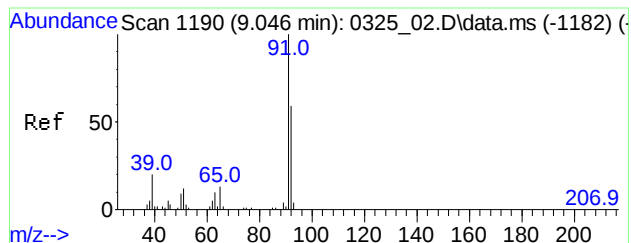
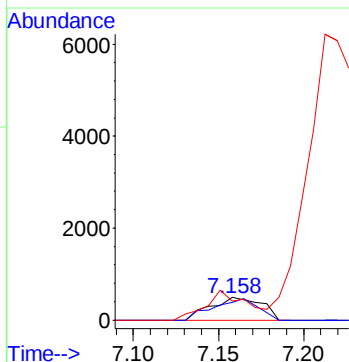
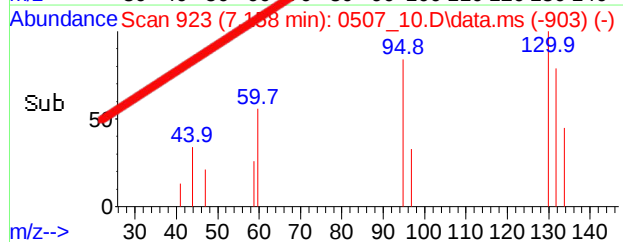




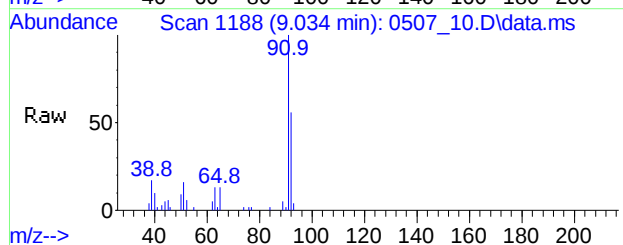
#39
Trichloroethene
Conc: 8\$ Below Cal
RT: 7.158 min Scan# 923
Delta R.T. -0.012 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm



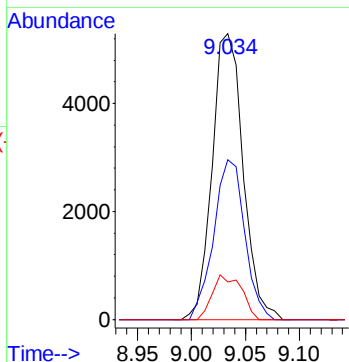
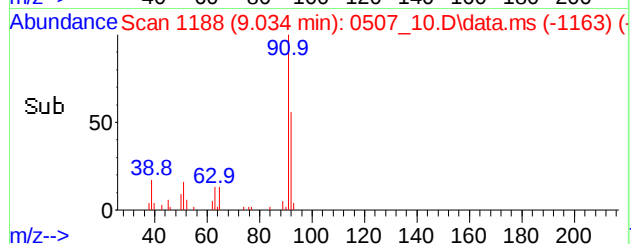
Tgt Ion: 130 Resp: 1033
Ion Ratio Lower Upper
130 100
132 82.4 87.1 130.7#
95 106.2 88.9 133.3

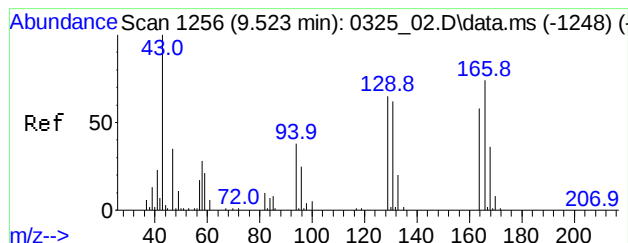


#48
Toluene
Conc: 8\$ 0.270 ppbv
RT: 9.034 min Scan# 1188
Delta R.T. -0.019 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm



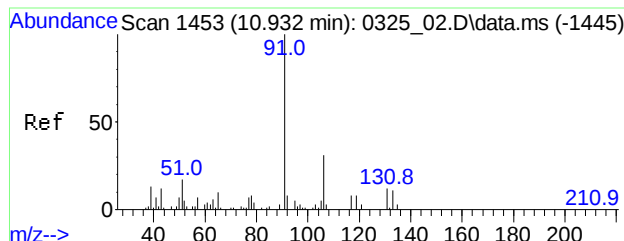
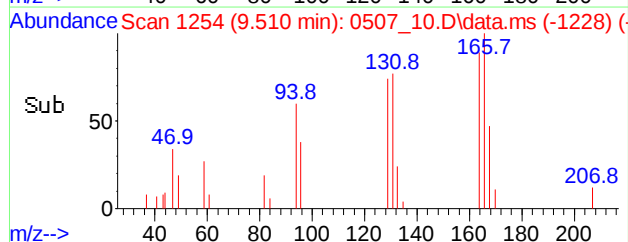
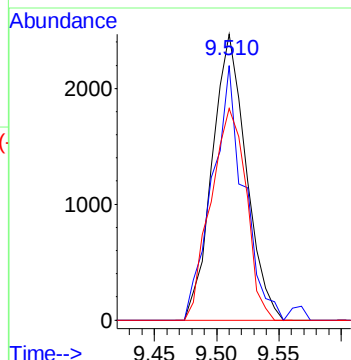
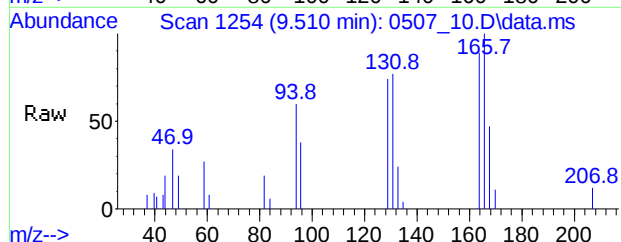
Tgt Ion: 91 Resp: 10531
Ion Ratio Lower Upper
91 100
92 55.9 47.4 71.2
65 14.7 10.2 15.4





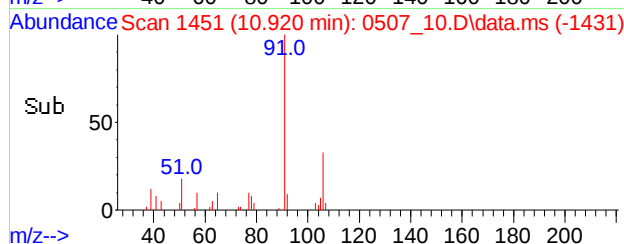
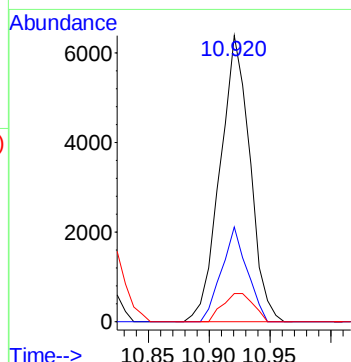
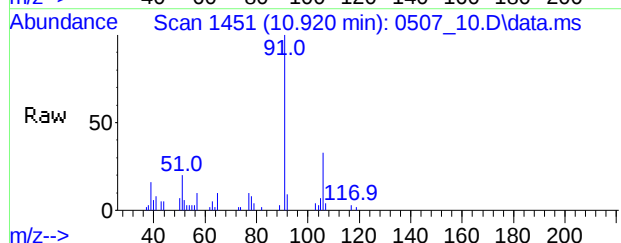
#52
Tetrachloroethene
Conc: 8\$ 0.191 ppbv
RT: 9.510 min Scan# 1254
Delta R.T. -0.013 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

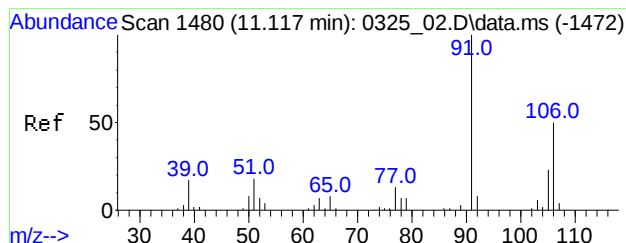
Tgt Ion: 166 Resp: 4619
Ion Ratio Lower Upper
166 100
164 83.4 63.2 94.8
129 77.2 56.9 85.3



#56
Ethylbenzene
Conc: 8\$ 0.197 ppbv
RT: 10.920 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

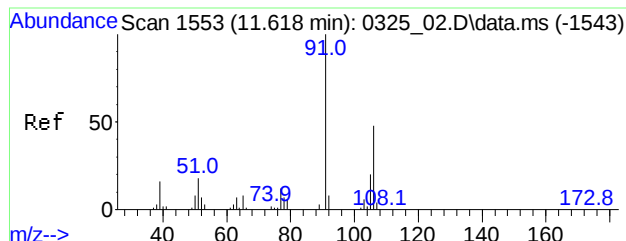
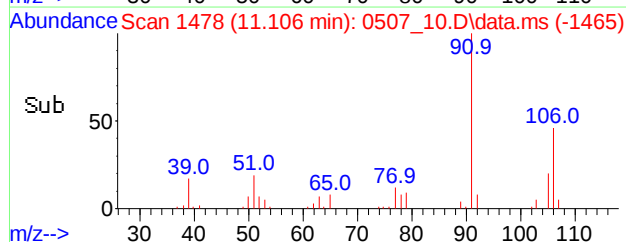
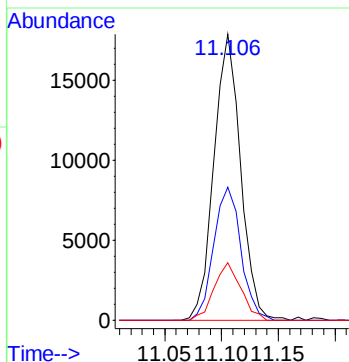
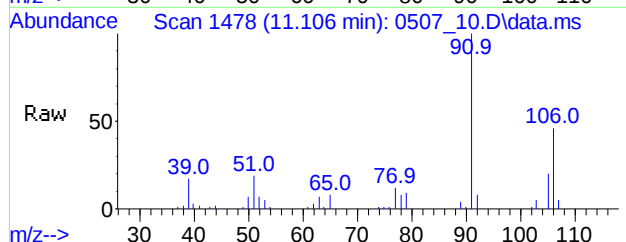
Tgt Ion: 91 Resp: 10743
Ion Ratio Lower Upper
91 100
106 28.3 17.7 57.7
77 10.0 0.0 32.7





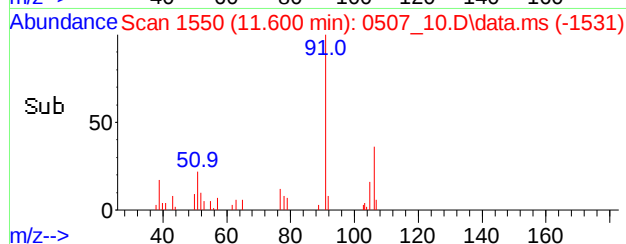
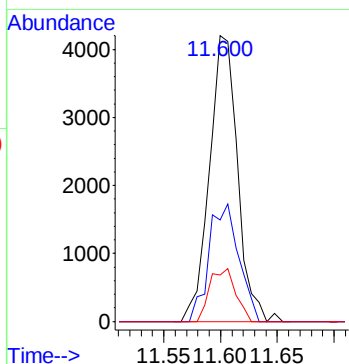
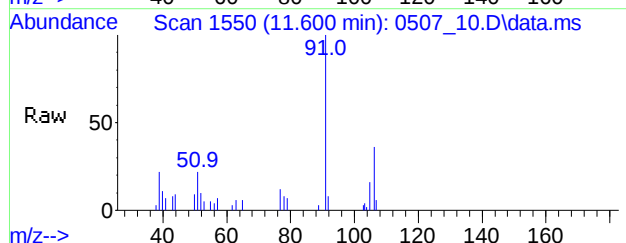
#57
m,p-Xylene
Conc: 8\$ 0.700 ppbv
RT: 11.106 min Scan# 1478
Delta R.T. -0.011 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

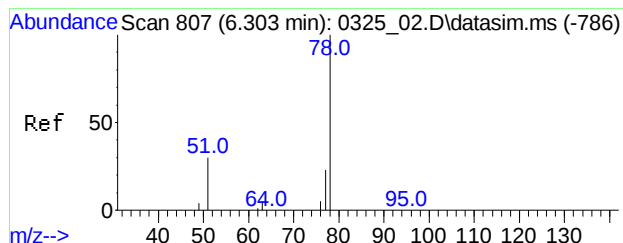
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.2	39.4	59.2
105	20.0	16.8	25.2



#61
o-Xylene
Conc: 8\$ 0.161 ppbv
RT: 11.600 min Scan# 1550
Delta R.T. -0.018 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

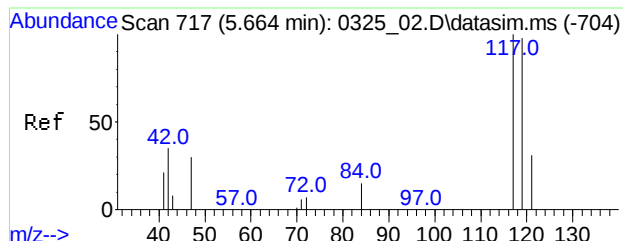
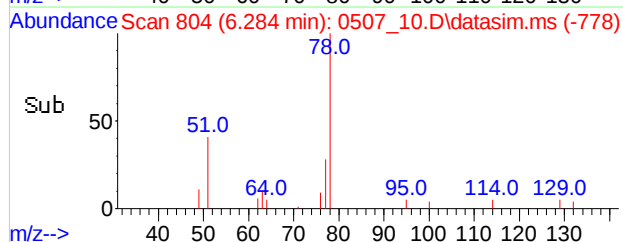
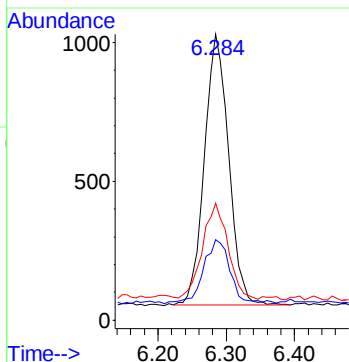
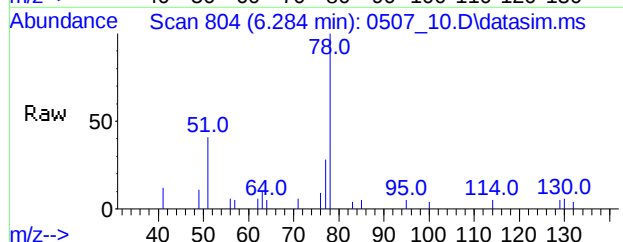
Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.5	37.5	56.3
105	17.0	13.5	20.3





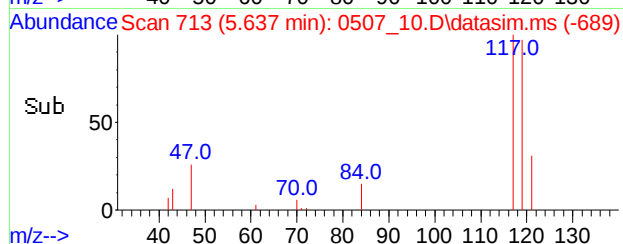
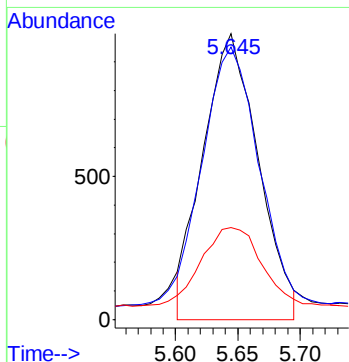
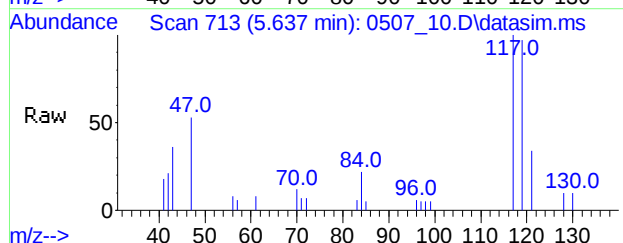
#86
Benzene(sim)
Conc: 8\$ 0.063 ppbv
RT: 6.284 min Scan# 804
Delta R.T. -0.019 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

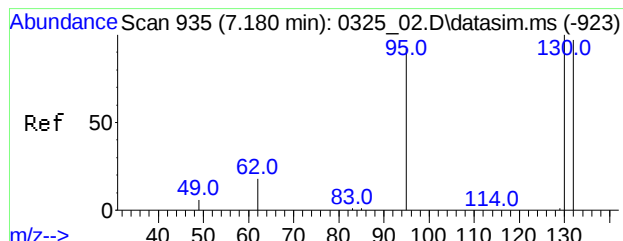
Tgt Ion: 78 Resp: 2408
Ion Ratio Lower Upper
78 100
77 23.9 18.6 28.0
51 37.0 25.4 38.2



#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.073 ppbv
RT: 5.634 min Scan# 713
Delta R.T. -0.027 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

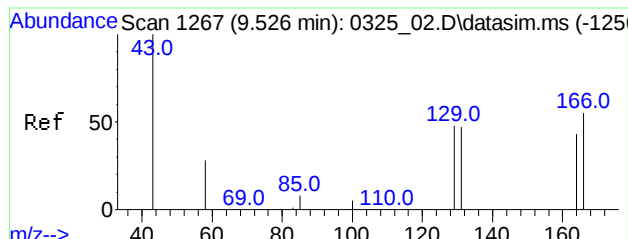
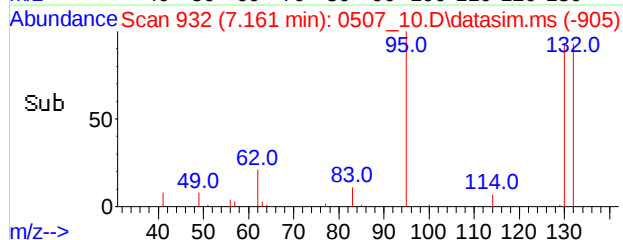
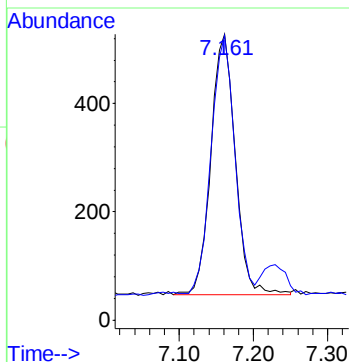
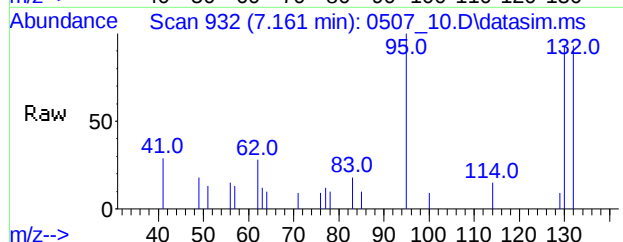
Tgt Ion: 117 Resp: 2533
Ion Ratio Lower Upper
117 100
119 102.1 84.7 127.1
121 14.4 21.1 31.7#





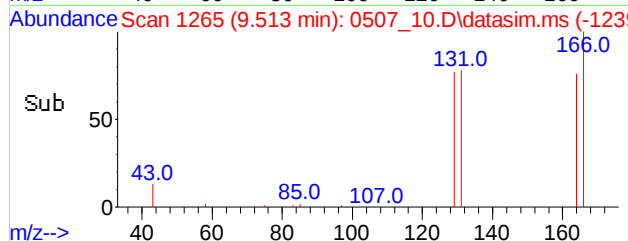
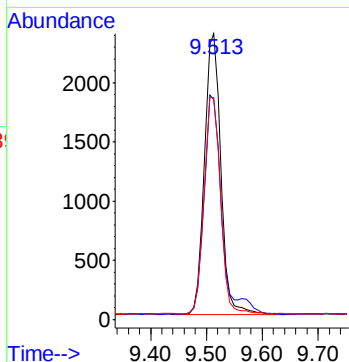
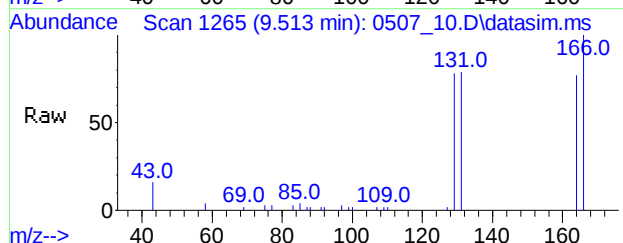
#98
Trichloroethene(sim)
Conc: 8\$ 0.058 ppbv
RT: 7.161 min Scan# 932
Delta R.T. -0.012 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

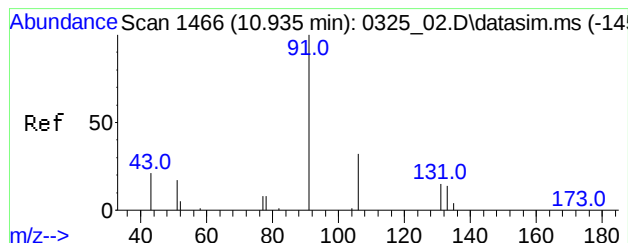
Tgt Ion:130 Resp: 1098
Ion Ratio Lower Upper
130 100
132 96.2 80.8 121.2



#104
Tetrachloroethene(sim)
Conc: 8\$ 0.186 ppbv
RT: 9.513 min Scan# 1265
Delta R.T. -0.013 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

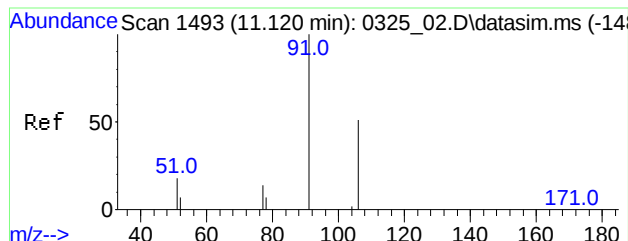
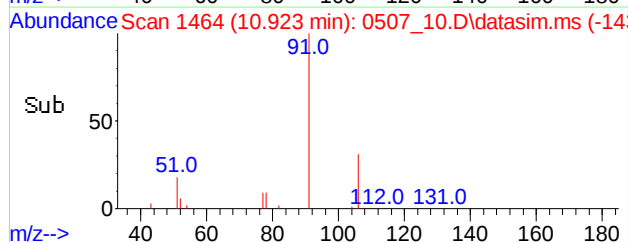
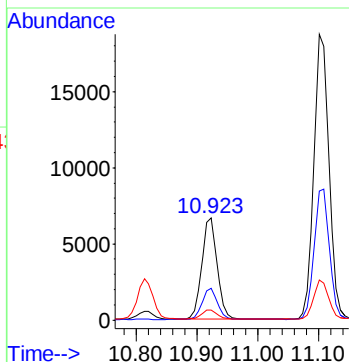
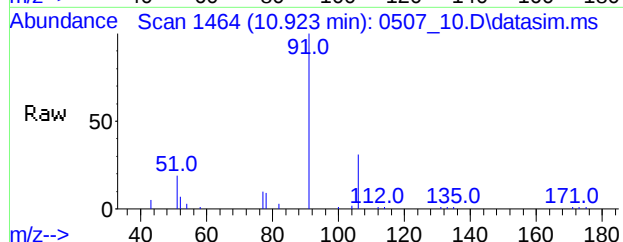
Tgt Ion:166 Resp: 4823
Ion Ratio Lower Upper
166 100
164 83.7 58.0 98.0
129 77.8 54.2 94.2





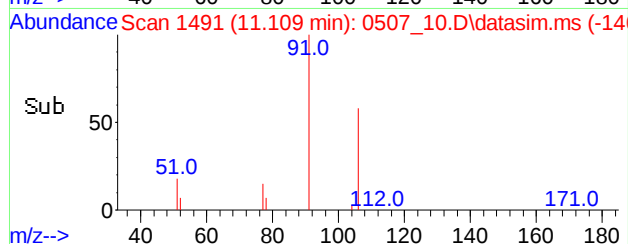
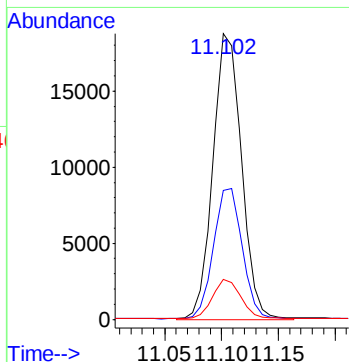
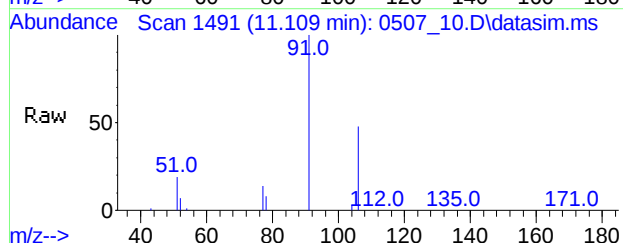
#108
Ethylbenzene(sim)
Conc: 8\$ 0.183 ppb
RT: 10.923 min Scan# 1464
Delta R.T. -0.012 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

Tgt Ion: 91 Resp: 11686
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2
77 9.0 7.5 11.3



#109
m,p-Xylene(sim)
Conc: 8\$ 0.676 ppbv
RT: 11.106 min Scan# 1491
Delta R.T. -0.011 min
Lab File: 0507_10.D
Acq: 7 May 2021 7:34 pm

Tgt Ion: 91 Resp: 29114
Ion Ratio Lower Upper
91 100
106 47.2 44.4 54.2
77 13.2 11.7 17.5



MWIA-02

Lab Sample ID: CI26500

Lab File ID: 0507_11.D

Date Received: 05/07/21

Date Analyzed: 05/07/21

Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_11.D
 Acq On : 7 May 2021 8:17 pm
 Operator : Keith
 Client ID : MWIA-02
 Lab ID : CI26500
 ALS Vial : 10 Sample Multiplier: 1

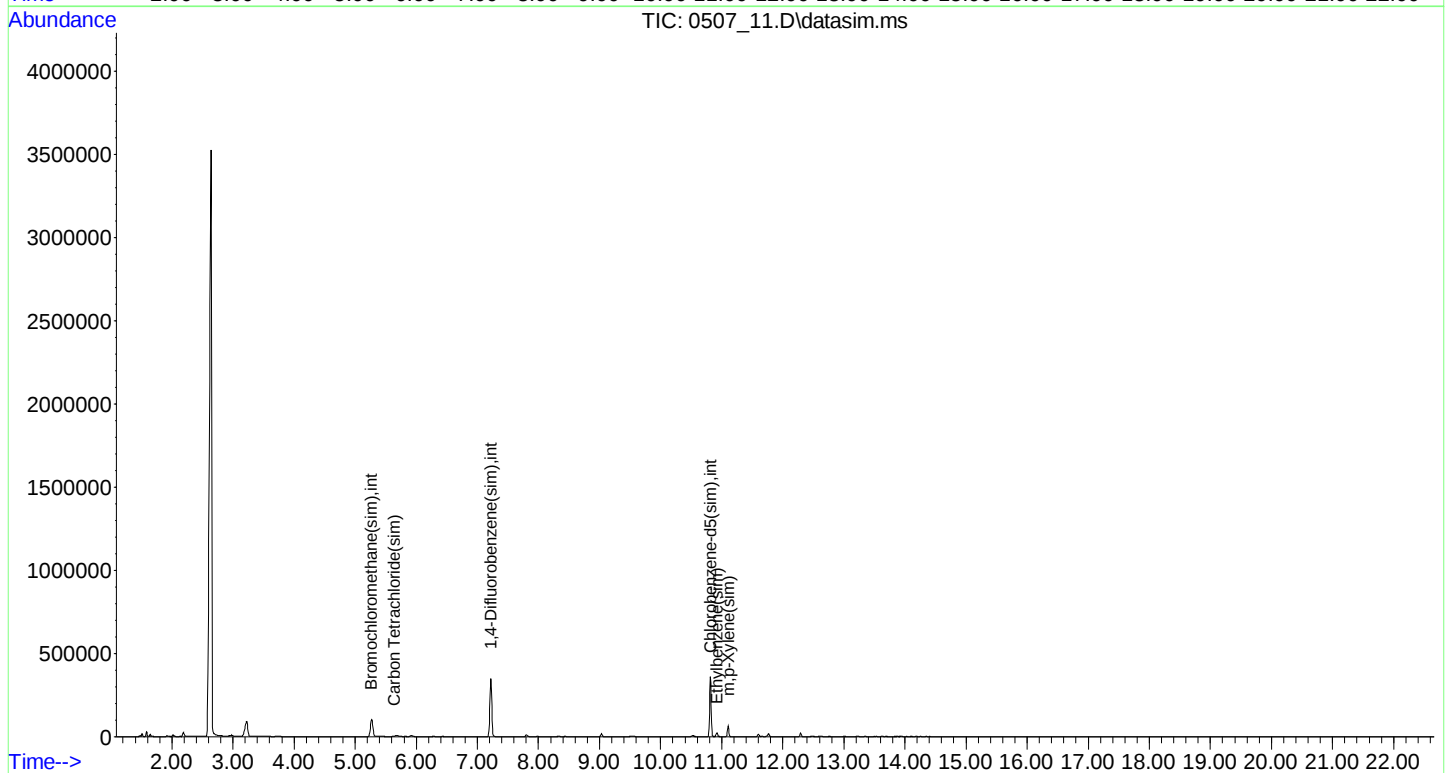
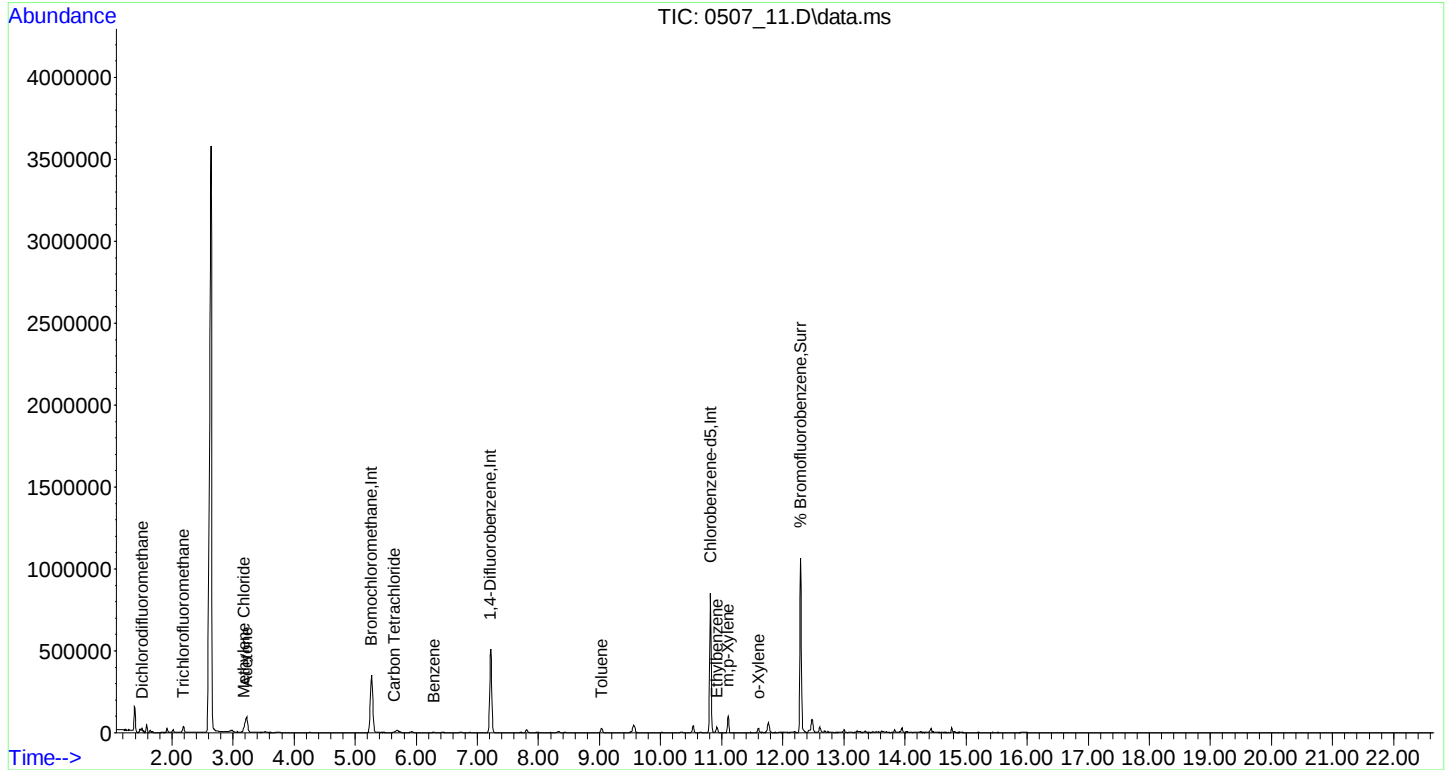
Quant Time: May 08 14:46:52 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

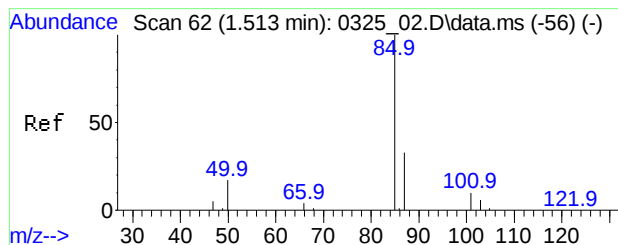
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.267	130	131478	10.000	ng	-0.03
36) 1,4-Difluorobenzene	7.220	114	424053	10.000	ng	-0.02
53) Chlorobenzene-d5	10.818	82	220025	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.270	130	138549	10.000	ng	#-0.02
95) 1,4-Difluorobenzene(sim)	7.220	114	424053	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.818	82	220025	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	313669	10.165	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	= 101.60%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.512	85	11603	0.398	ppbv	99
12) Acetone	3.224	43	100396	2.923	ppbv	96
13) Trichlorofluoromethane	2.184	101	14847	0.431	ppbv	99
17) Methylene Chloride	3.176	49	14235	0.609	ppbv	88
33) Benzene	6.288	78	1742	0.056	ppbv#	89
34) Carbon Tetrachloride	5.642	117	2811	0.086	ppbv	93
48) Toluene	9.034	91	17451	0.444	ppbv#	97
56) Ethylbenzene	10.920	91	19656	0.361	ppbv	88
57) m,p-Xylene	11.106	91	52660	1.265	ppbv	99
61) o-Xylene	11.607	91	12068	0.268	ppbv	95
86] Benzene(sim)	6.284	78	1765	0.046	ppbv#	93
87] Carbon Tetrachloride(sim)	5.642	117	2618	0.076	ppbv#	87
108] Ethylbenzene(sim)	10.923	91	22000	0.344	ppb	99
109] m,p-Xylene(sim)	11.106	91	52660	1.221	ppbv	99

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_11.D
Acq On : 7 May 2021 8:17 pm
Operator : Keith
Client ID : MWIA-02
Lab ID : CI26500
ALS Vial : 10 Sample Multiplier: 1

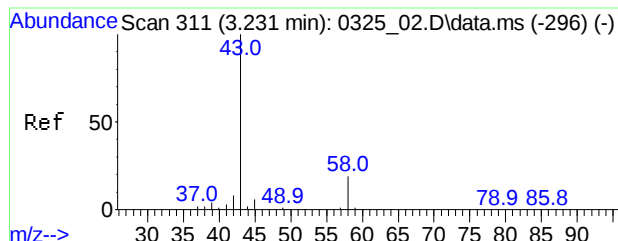
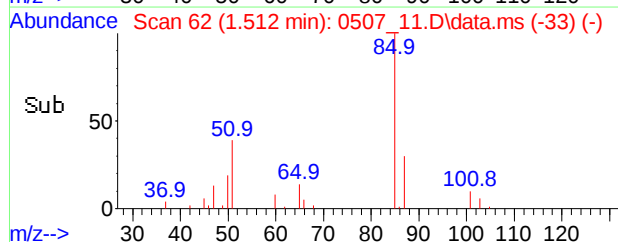
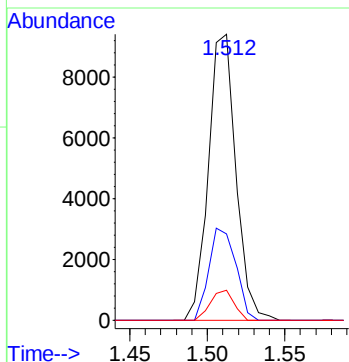
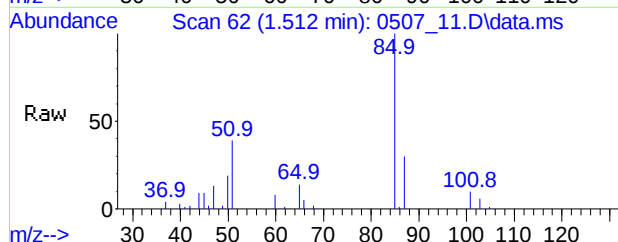
Quant Time: May 08 14:46:52 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





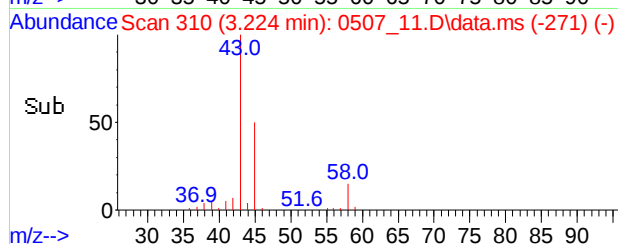
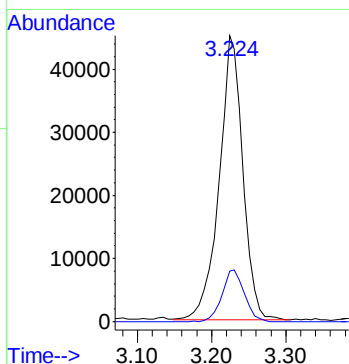
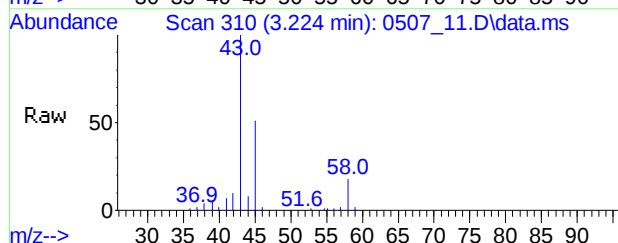
#3
Dichlorodifluoromethane
Conc: 8% 0.398 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

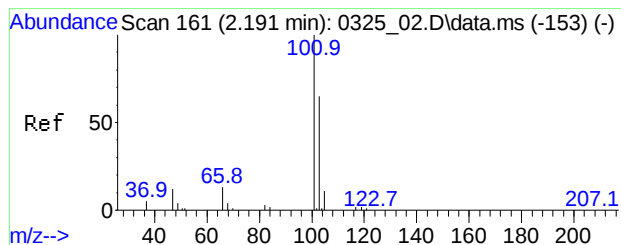
Tgt Ion: 85 Resp: 11603
Ion Ratio Lower Upper
85 100
87 31.3 25.8 38.8
101 9.0 7.3 10.9



#12
Acetone
Conc: 8% 2.923 ppbv
RT: 3.224 min Scan# 310
Delta R.T. -0.034 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

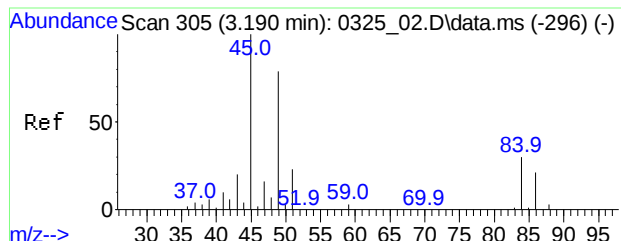
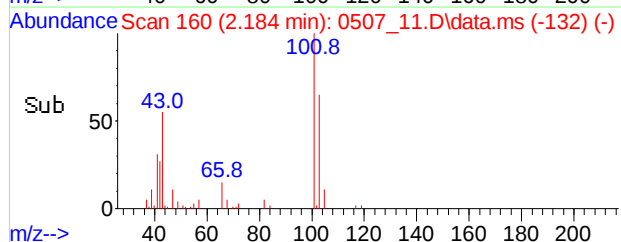
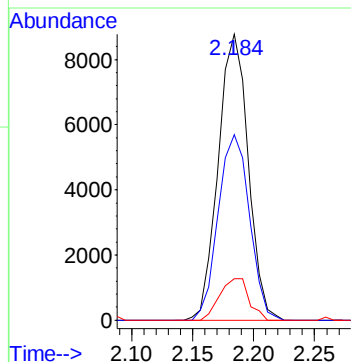
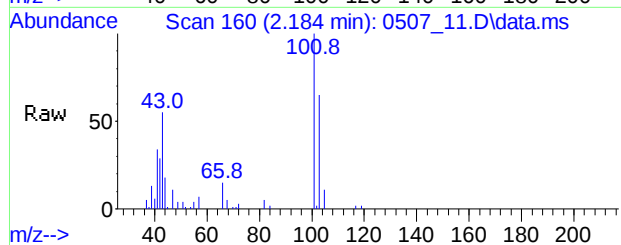
Tgt Ion: 43 Resp: 100396
Ion Ratio Lower Upper
43 100
58 17.1 15.0 22.4





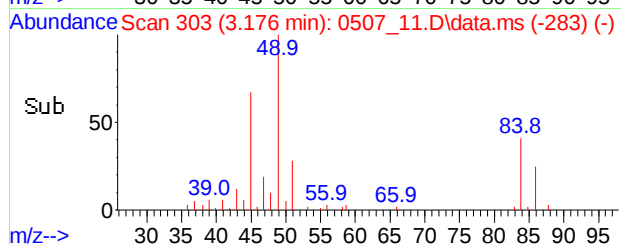
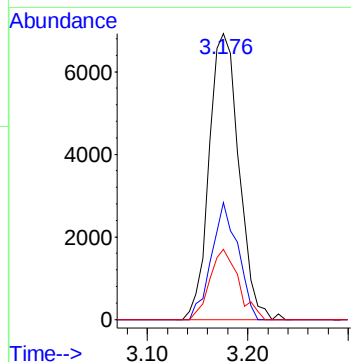
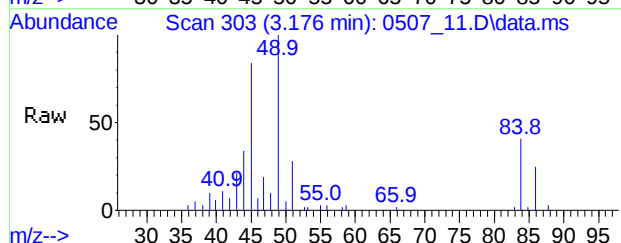
#13
Trichlorofluoromethane
Conc: 8\$ 0.431 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

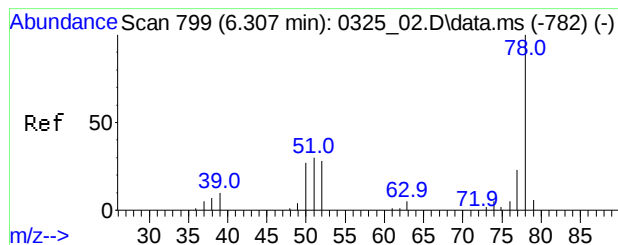
Tgt Ion	Ratio	Lower	Upper
101	100		
103	67.6	54.6	82.0
66	14.1	12.2	18.4



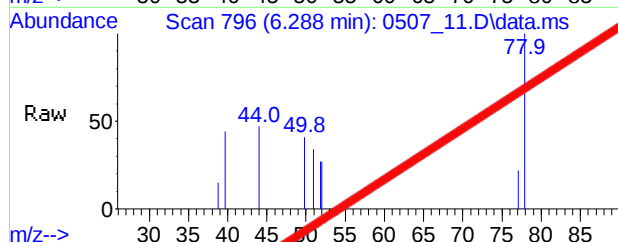
#17
Methylene Chloride
Conc: 8\$ 0.609 ppbv
RT: 3.176 min Scan# 303
Delta R.T. -0.014 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	36.3	36.2	54.2
86	23.5	22.3	33.5

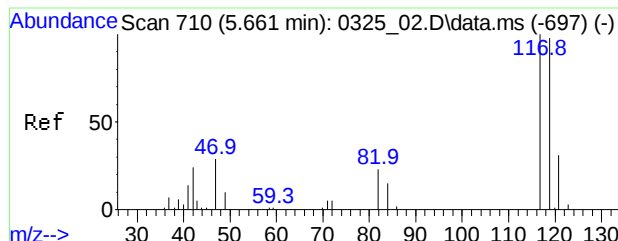
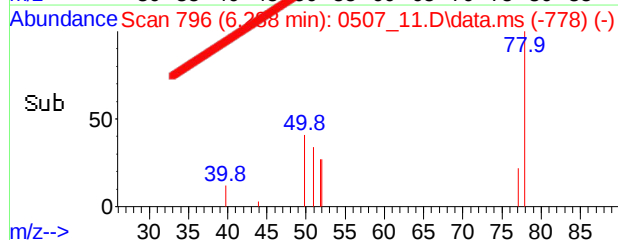
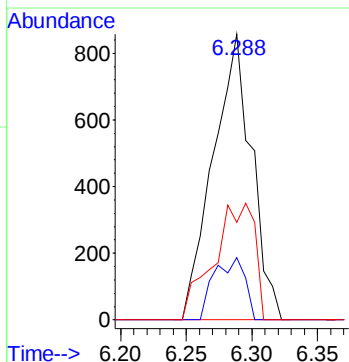




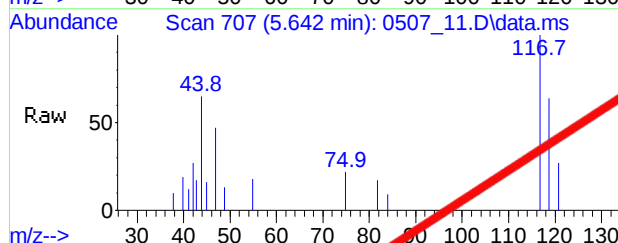
#33
Benzene
Conc: 8\$ Below Cal
RT: 6.288 min Scan# 796
Delta R.T. -0.026 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm



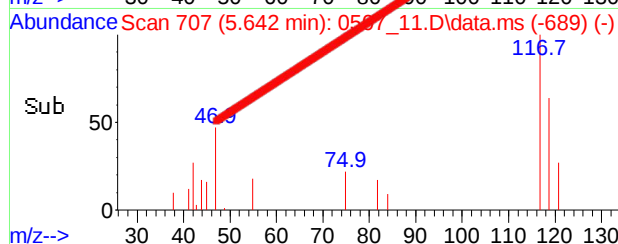
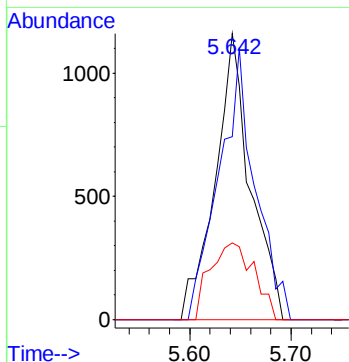
Tgt Ion: 78 Resp: 1742
Ion Ratio Lower Upper
78 100
77 17.4 19.1 28.7#
51 43.5 30.3 45.5

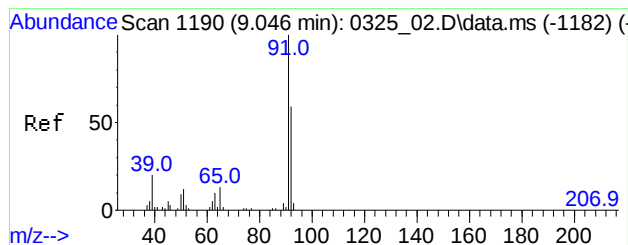


#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.642 min Scan# 707
Delta R.T. -0.019 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm



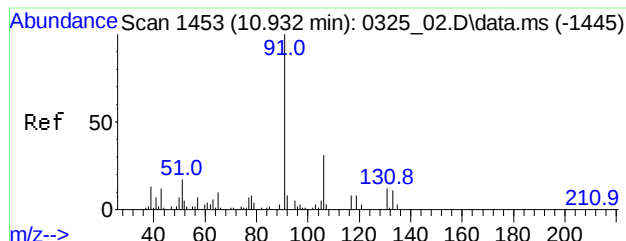
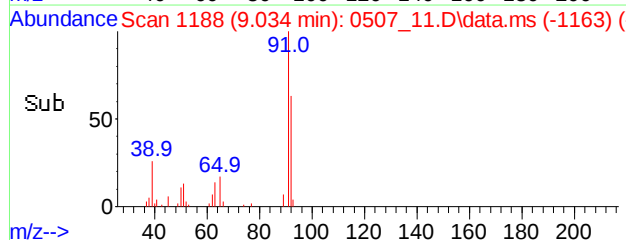
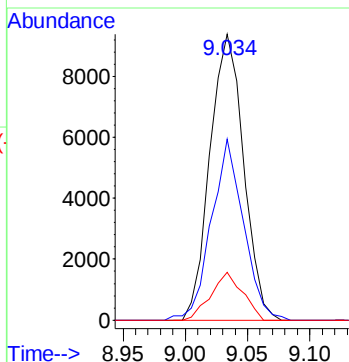
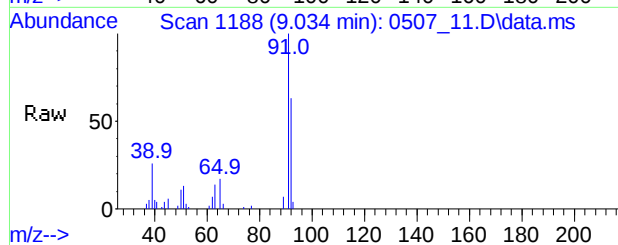
Tgt Ion: 117 Resp: 2811
Ion Ratio Lower Upper
117 100
113 97.1 85.1 125.1
121 33.2 11.0 51.0





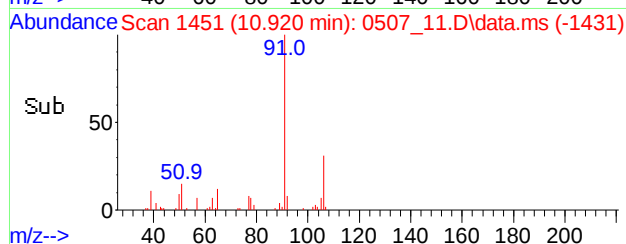
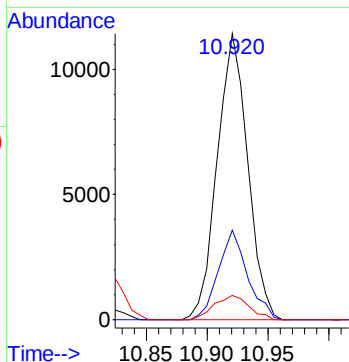
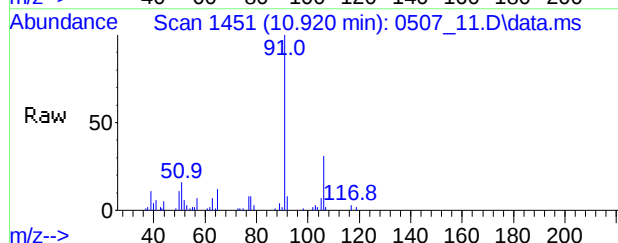
#48
Toluene
Conc: 8\$ 0.444 ppbv
RT: 9.034 min Scan# 1188
Delta R.T. -0.019 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

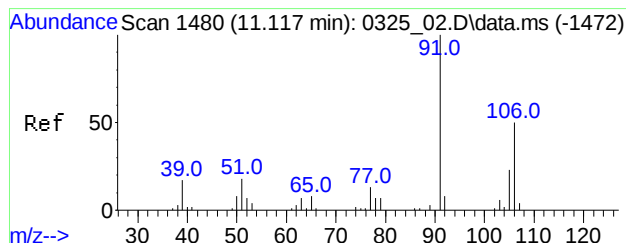
Tgt Ion: 91 Resp: 17451
Ion Ratio Lower Upper
91 100
92 60.4 47.4 71.2
65 15.7 10.2 15.4#



#56
Ethylbenzene
Conc: 8\$ 0.361 ppbv
RT: 10.920 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

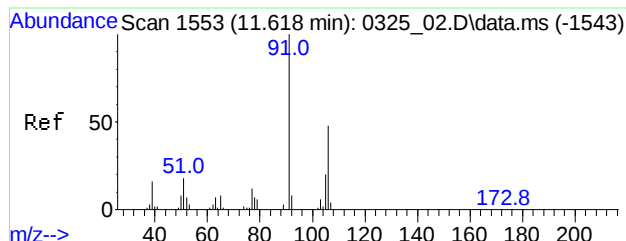
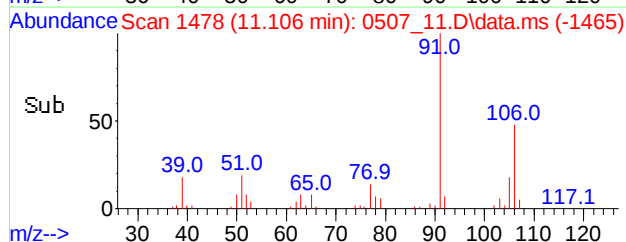
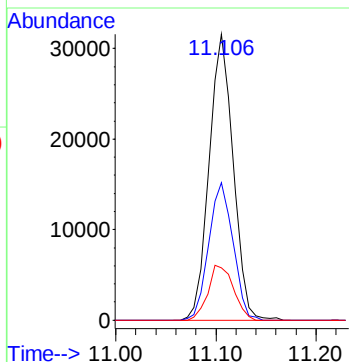
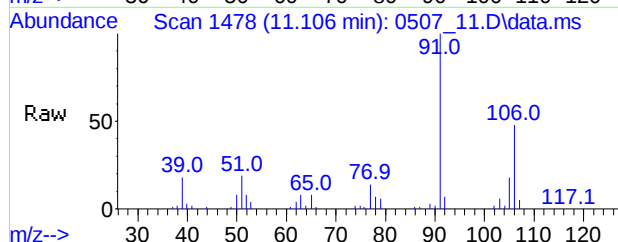
Tgt Ion: 91 Resp: 19656
Ion Ratio Lower Upper
91 100
106 29.7 17.7 57.7
77 9.6 0.0 32.7





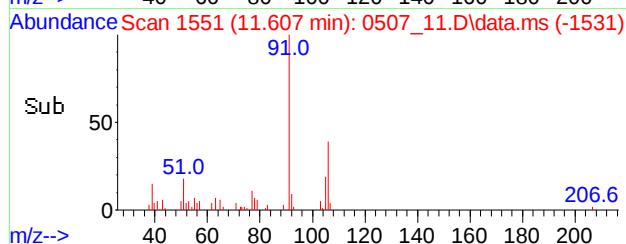
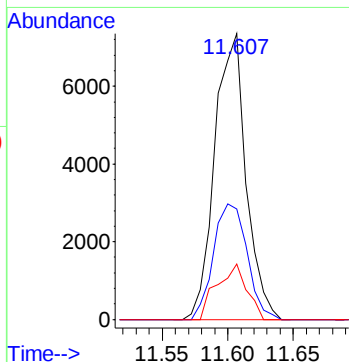
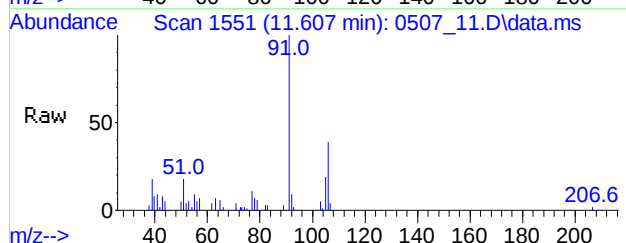
#57
m,p-Xylene
Conc: 8\$ 1.265 ppbv
RT: 11.106 min Scan# 1478
Delta R.T. -0.011 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

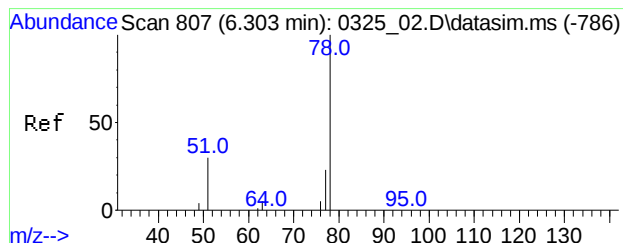
Tgt Ion	Ratio	Lower	Upper
91	100		
106	48.5	39.4	59.2
105	20.3	16.8	25.2



#61
o-Xylene
Conc: 8\$ 0.268 ppbv
RT: 11.607 min Scan# 1551
Delta R.T. -0.011 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

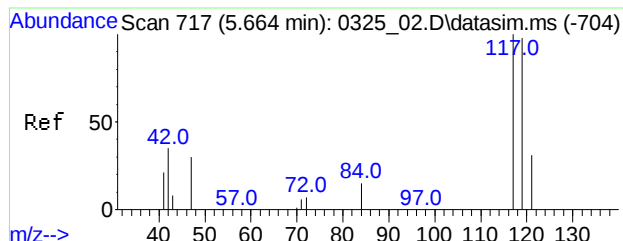
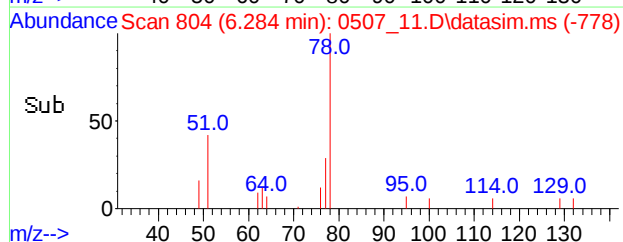
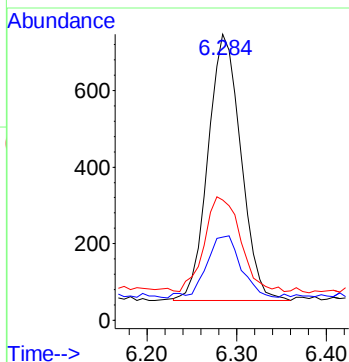
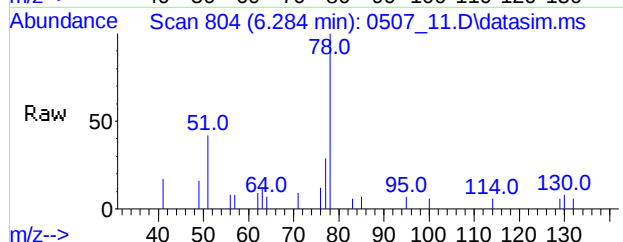
Tgt Ion	Ratio	Lower	Upper
91	100		
106	43.5	37.5	56.3
105	18.5	13.5	20.3





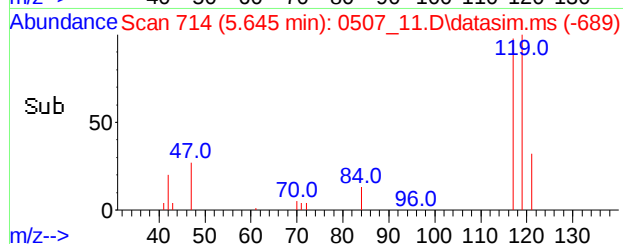
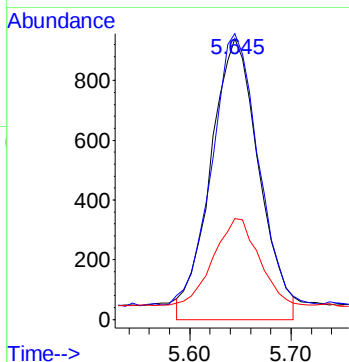
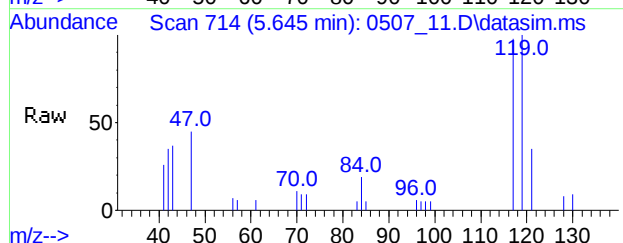
#86
Benzene(sim)
Conc: 8\$ Below Cal
RT: 6.284 min Scan# 804
Delta R.T. -0.019 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

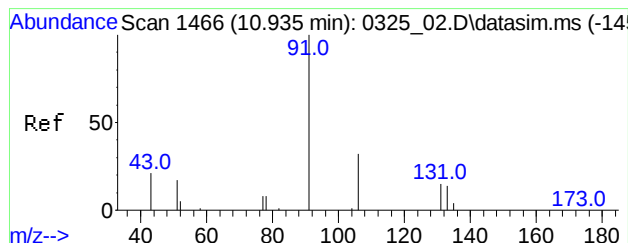
Tgt Ion: 78 Resp: 1765
Ion Ratio Lower Upper
78 100
77 23.4 18.6 28.0
51 38.8 25.4 38.2#



#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 5.642 min Scan# 714
Delta R.T. -0.019 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

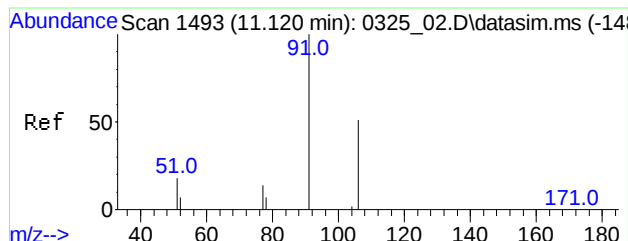
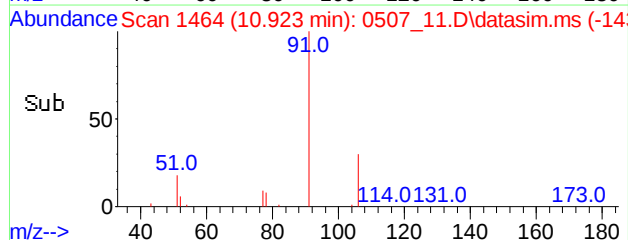
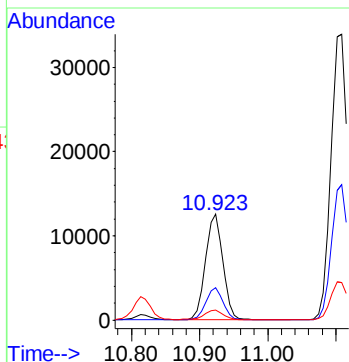
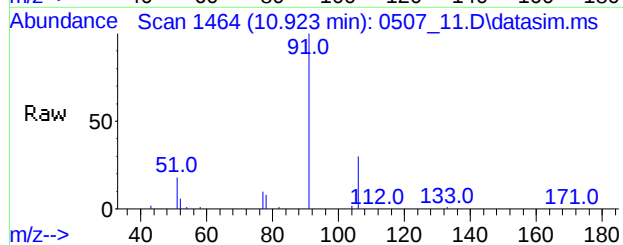
Tgt Ion: 117 Resp: 2618
Ion Ratio Lower Upper
117 100
119 92.2 84.7 127.1
121 32.3 21.1 31.7#





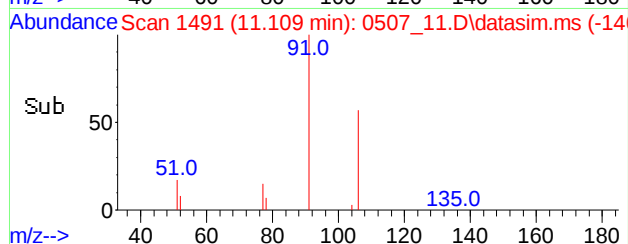
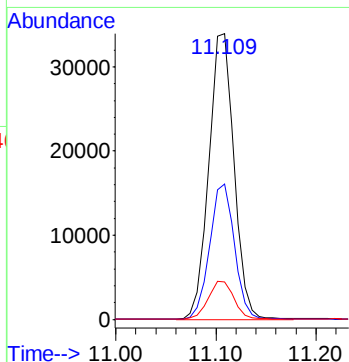
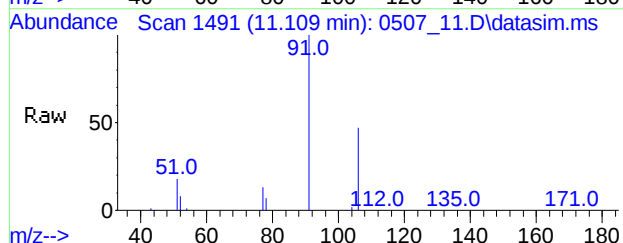
#108
Ethylbenzene(sim)
Conc: 8\$ 0.344 ppb
RT: 10.923 min Scan# 1464
Delta R.T. -0.012 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

Tgt Ion: 91 Resp: 22000
Ion Ratio Lower Upper
91 100
106 30.2 24.8 37.2
77 9.2 7.5 11.3



#109
m,p-Xylene(sim)
Conc: 8\$ 1.221 ppbv
RT: 11.106 min Scan# 1491
Delta R.T. -0.011 min
Lab File: 0507_11.D
Acq: 7 May 2021 8:17 pm

Tgt Ion: 91 Resp: 52660
Ion Ratio Lower Upper
91 100
106 48.5 44.4 54.2
77 13.6 11.7 17.5



Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_12.D
 Acq On : 7 May 2021 9:00 pm
 Operator : Keith
 Client ID : MWIA-03
 Lab ID : CI26501
 ALS Vial : 11 Sample Multiplier: 1

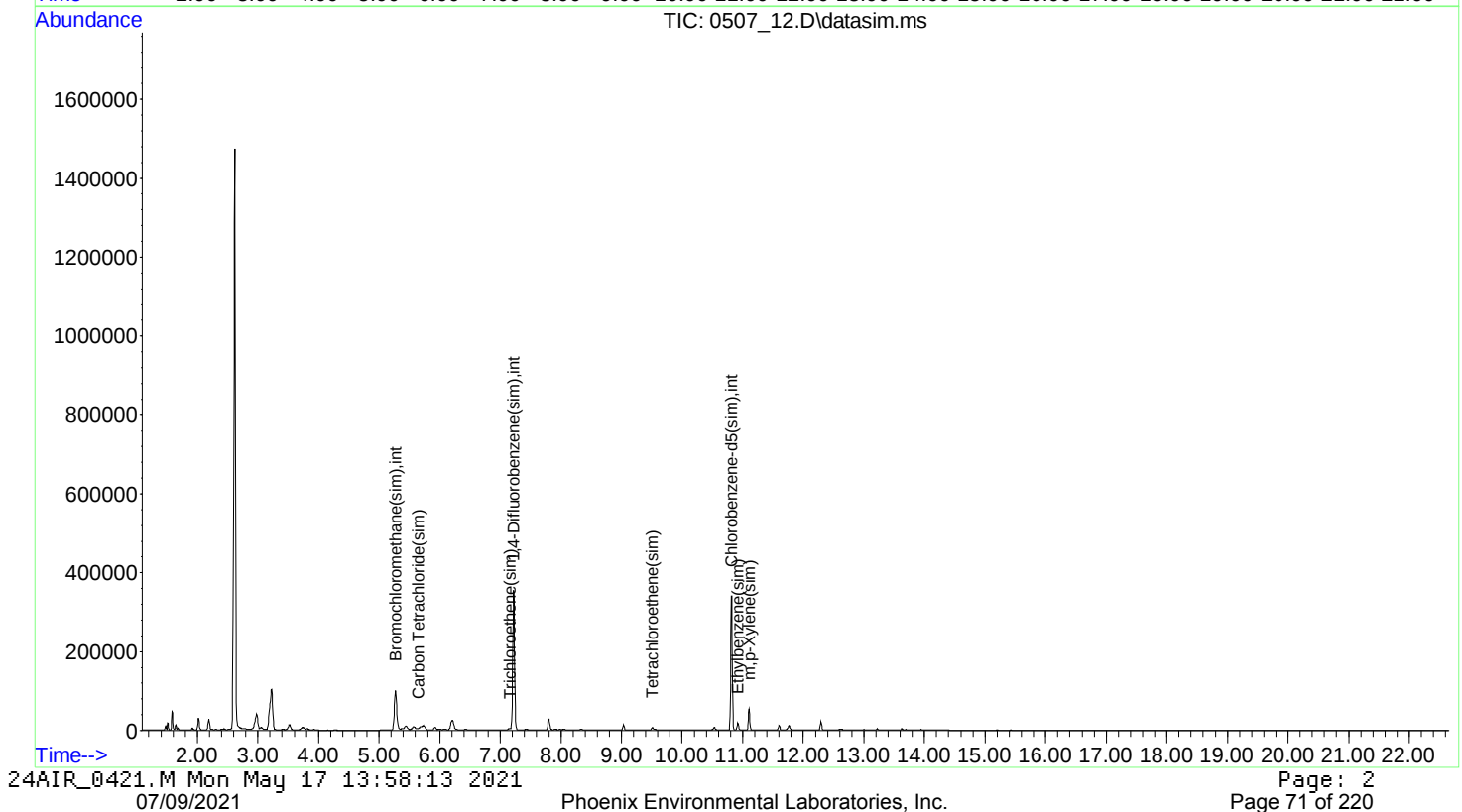
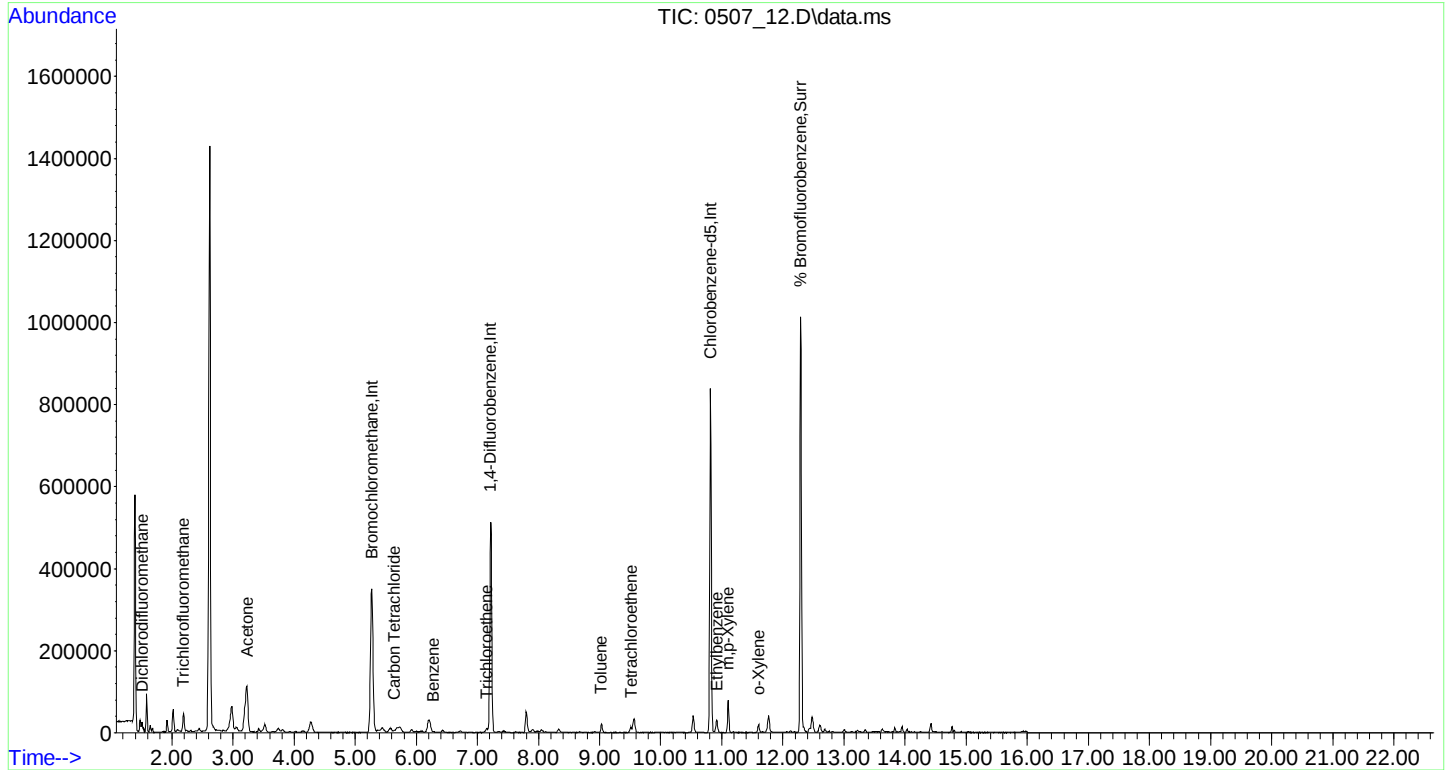
Quant Time: May 08 14:47:23 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

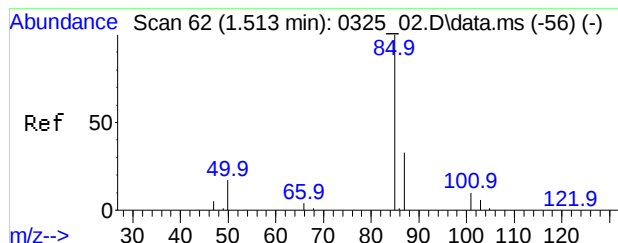
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	130978	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.218	114	422846	10.000	ng	-0.02
53) Chlorobenzene-d5	10.815	82	222439	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.275	130	137339	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.218	114	422846	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.815	82	222439	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	304860	9.772	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.70%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.513	85	12351	0.425	ppbv	98
12) Acetone	3.231	43	119019	3.479	ppbv	98
13) Trichlorofluoromethane	2.184	101	13050	0.381	ppbv	95
33) Benzene	6.286	78	1682	0.054	ppbv#	66
34) Carbon Tetrachloride	5.647	117	2877	0.089	ppbv	97
39) Trichloroethene	7.156	130	1353	0.078	ppbv	92
48) Toluene	9.032	91	13038	0.333	ppbv	95
52) Tetrachloroethene	9.515	166	3328	0.137	ppbv	98
56) Ethylbenzene	10.918	91	14738	0.268	ppbv	93
57) m,p-Xylene	11.104	91	40844	0.971	ppbv	98
61) o-Xylene	11.604	91	9257	0.203	ppbv	97
86] Benzene(sim)	6.289	78	1782	0.047	ppbv#	92
87] Carbon Tetrachloride(sim)	5.647	117	2877	0.084	ppbv	97
98] Trichloroethene(sim)	7.159	130	1386	0.073	ppbv	96
104] Tetrachloroethene(sim)	9.511	166	3591	0.138	ppbv	96
108] Ethylbenzene(sim)	10.921	91	16633	0.257	ppb	99
109] m,p-Xylene(sim)	11.104	91	40841	0.937	ppbv	98

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_12.D
Acq On : 7 May 2021 9:00 pm
Operator : Keith
Client ID : MWIA-03
Lab ID : CI26501
ALS Vial : 11 Sample Multiplier: 1

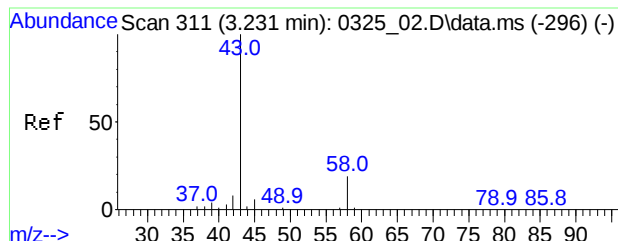
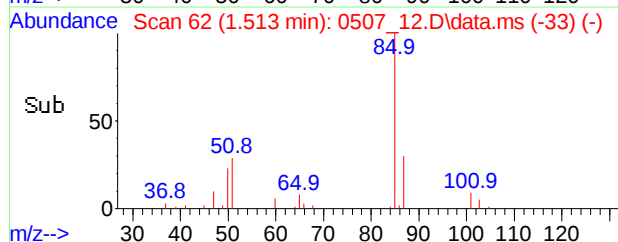
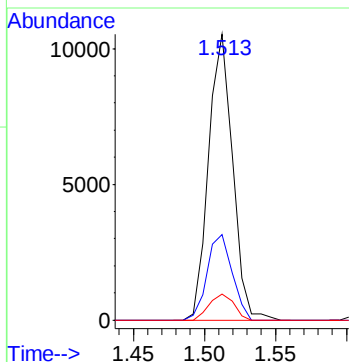
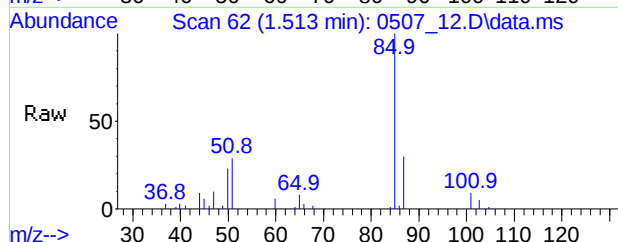
Quant Time: May 08 14:47:23 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





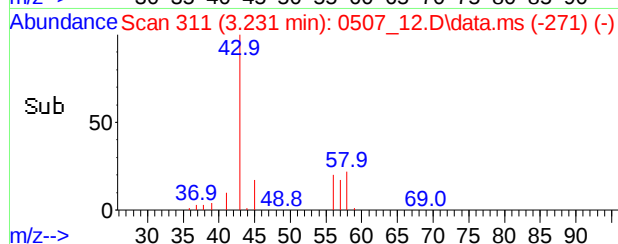
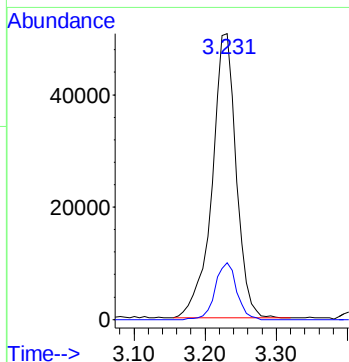
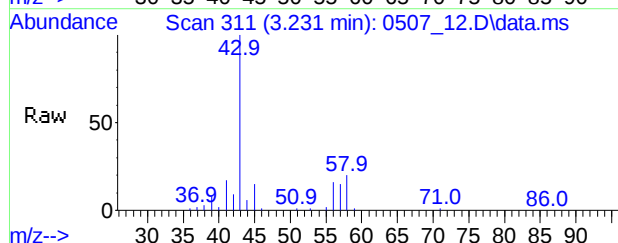
#3
Dichlorodifluoromethane
Conc: 8% 0.425 ppbv
RT: 1.513 min Scan# 62
Delta R.T. -0.000 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

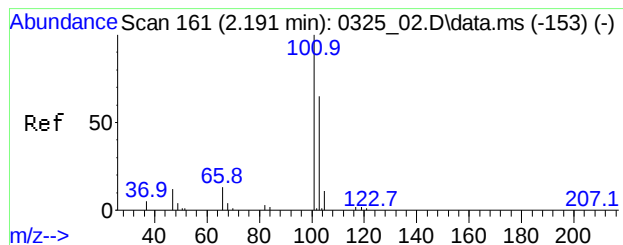
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.2	25.8	38.8
101	9.4	7.3	10.9



#12
Acetone
Conc: 8% 3.479 ppbv
RT: 3.231 min Scan# 311
Delta R.T. -0.027 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

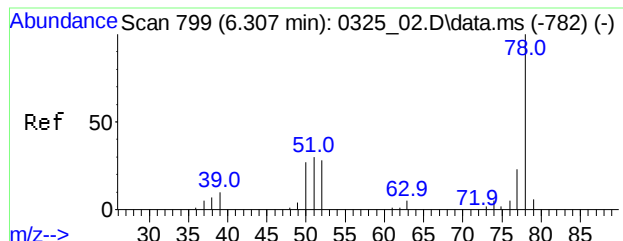
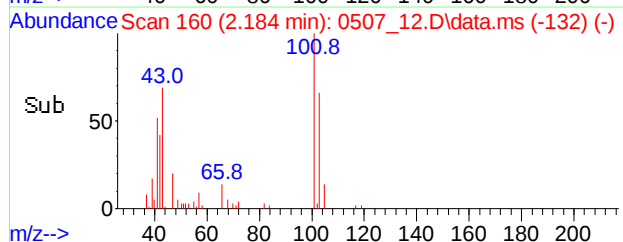
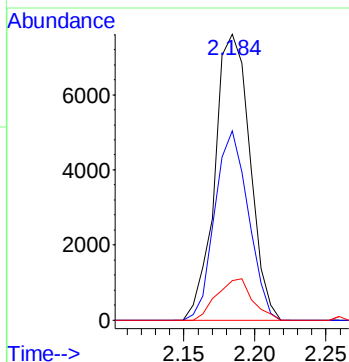
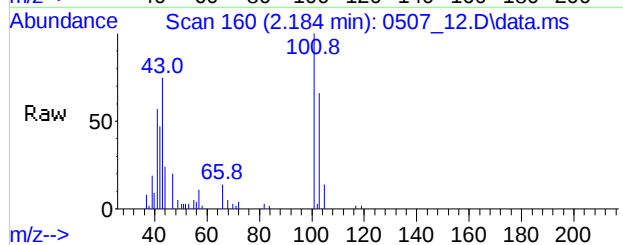
Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.7	15.0	22.4





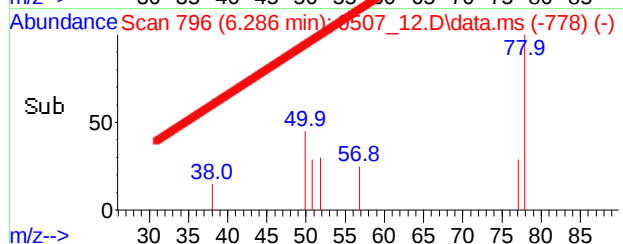
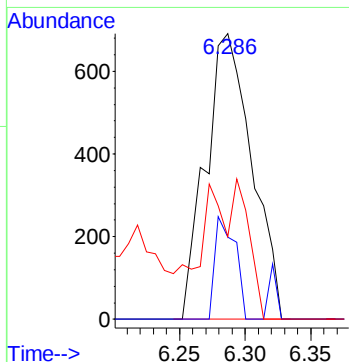
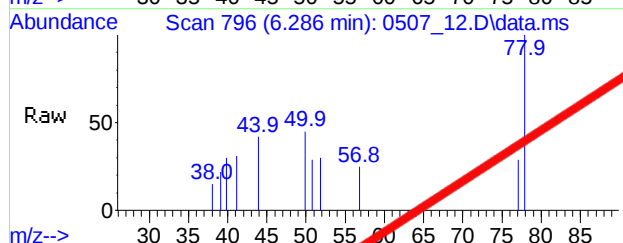
#13
Trichlorofluoromethane
Conc: 8\$ 0.381 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

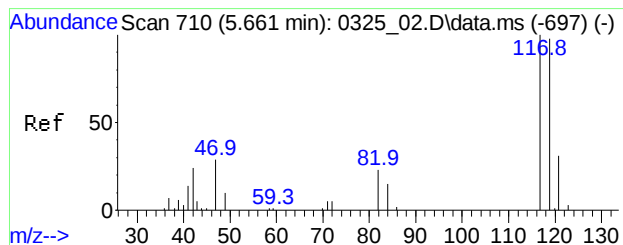
Tgt Ion: 101 Resp: 13050
Ion Ratio Lower Upper
101 100
103 63.3 54.6 82.0
66 14.7 12.2 18.4



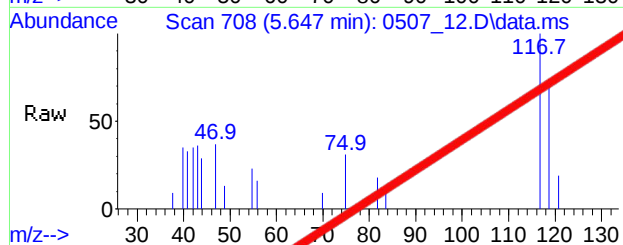
#33
Benzene
Conc: 8\$ Below Cal
RT: 6.286 min Scan# 796
Delta R.T. -0.028 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

Tgt Ion: 78 Resp: 1682
Ion Ratio Lower Upper
78 100
77 15.5 19.1 28.7#
51 10.9 30.3 45.5#

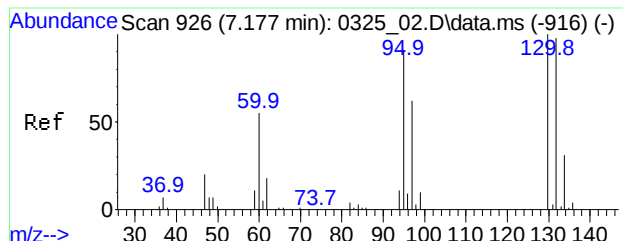
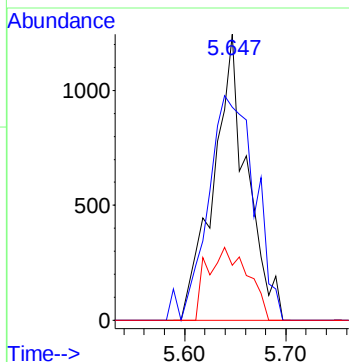
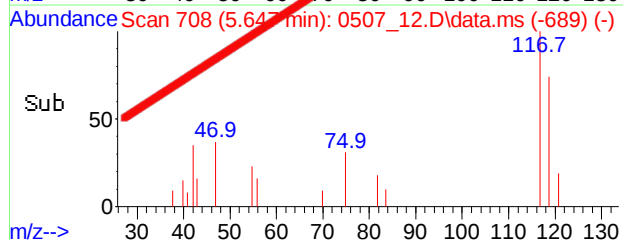




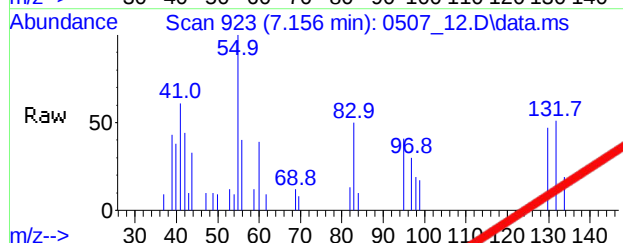
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.647 min Scan# 708
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm



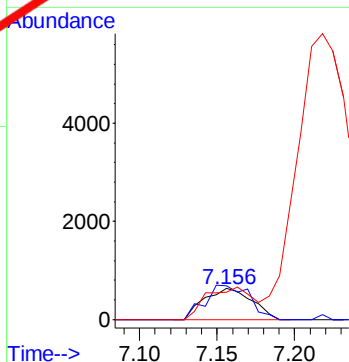
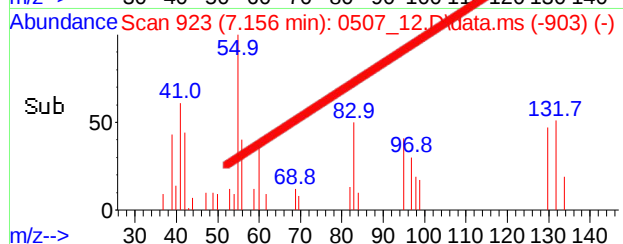
Tgt Ion: 117 Resp: 2877
Ion Ratio Lower Upper
117 100
119 109.4 85.1 125.1
121 30.7 11.0 51.0

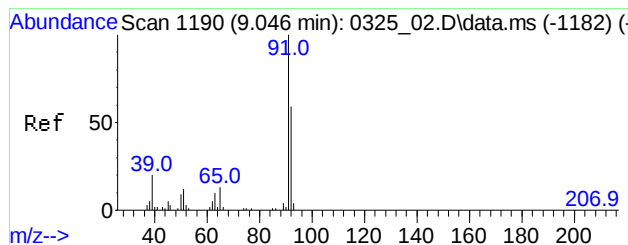


#39
Trichloroethene
Conc: 8\$ Below Cal
RT: 7.156 min Scan# 923
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm



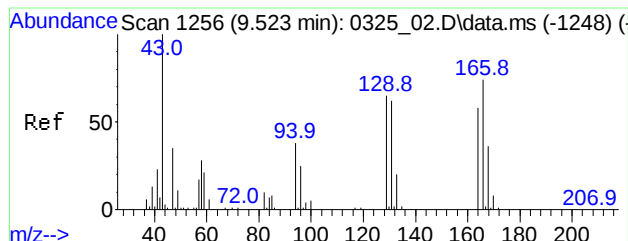
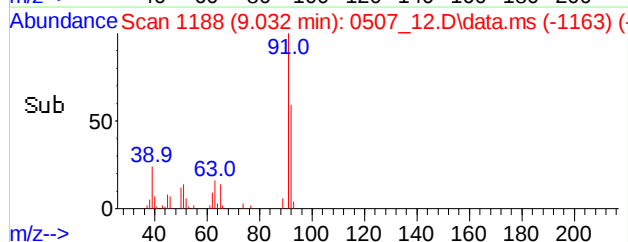
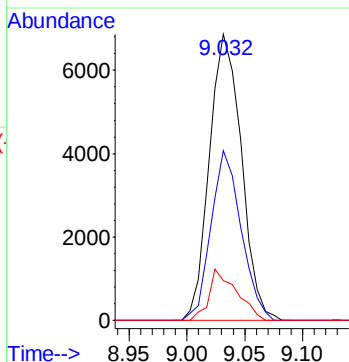
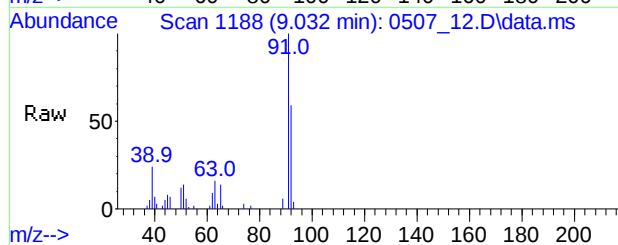
Tgt Ion: 130 Resp: 1353
Ion Ratio Lower Upper
130 100
132 102.8 87.1 130.7
95 100.8 88.9 133.3





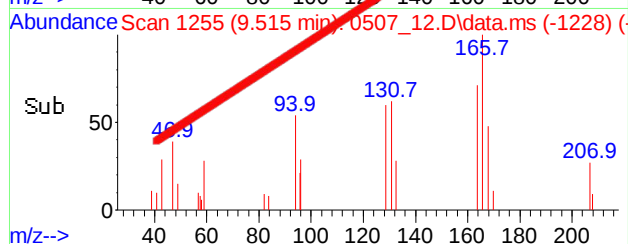
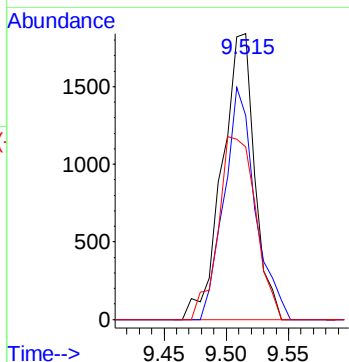
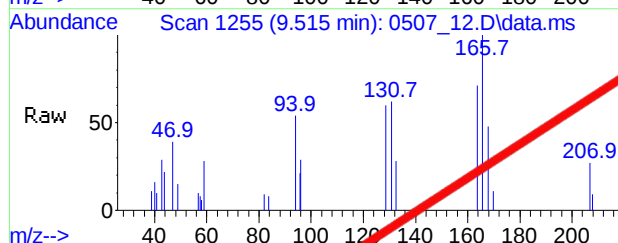
#48
Toluene
Conc: 8\$ 0.333 ppbv
RT: 9.032 min Scan# 1188
Delta R.T. -0.021 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

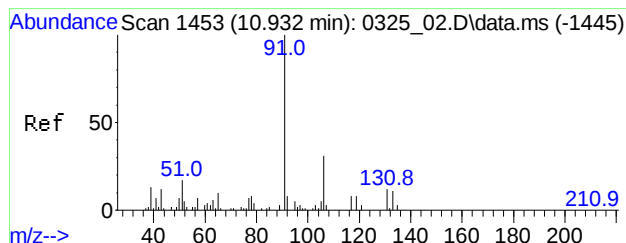
Tgt Ion: 91 Resp: 13038
Ion Ratio Lower Upper
91 100
92 55.8 47.4 71.2
65 15.2 10.2 15.4



#52
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 9.515 min Scan# 1255
Delta R.T. -0.008 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

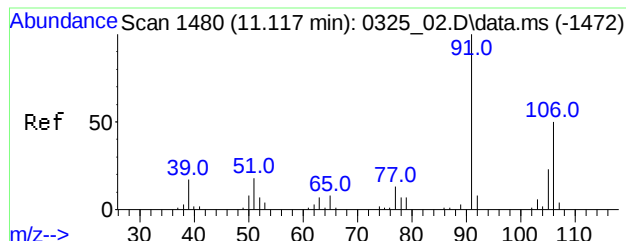
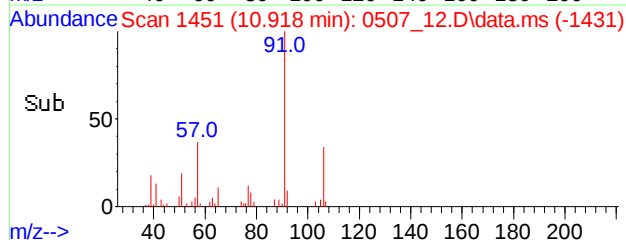
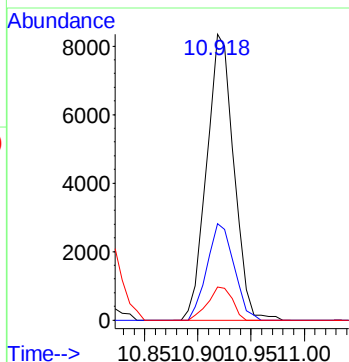
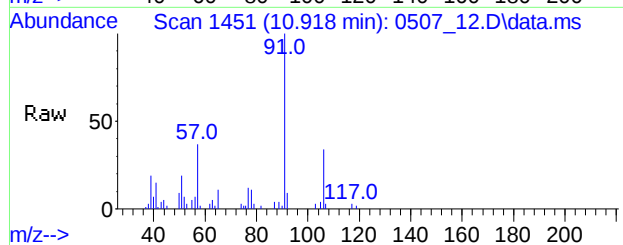
Tgt Ion: 166 Resp: 3328
Ion Ratio Lower Upper
166 100
164 77.7 63.2 94.8
129 73.0 56.9 85.3





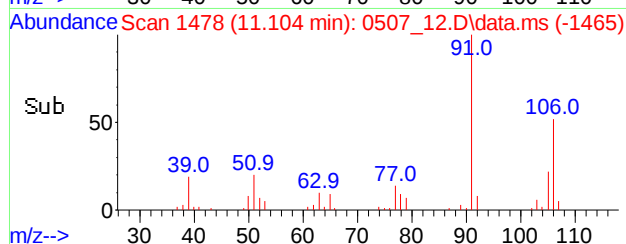
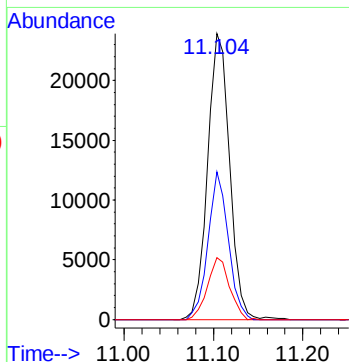
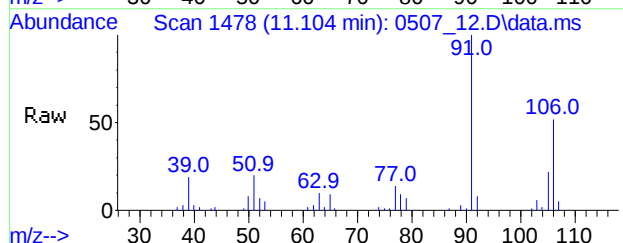
#56
Ethylbenzene
Conc: 8\$ 0.268 ppbv
RT: 10.918 min Scan# 1451
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

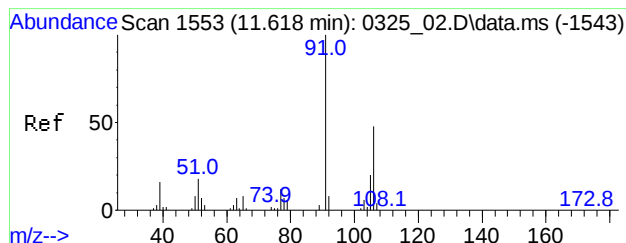
Tgt Ion	Ratio	Lower	Upper
91	100		
106	33.5	17.7	57.7
77	10.4	0.0	32.7



#57
m,p-Xylene
Conc: 8\$ 0.971 ppbv
RT: 11.104 min Scan# 1478
Delta R.T. -0.013 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

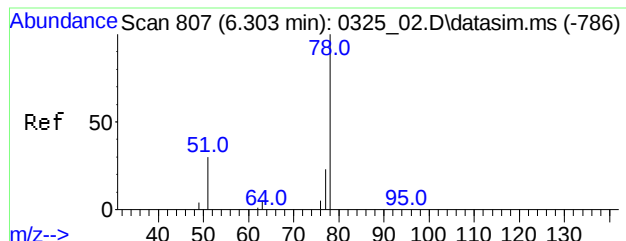
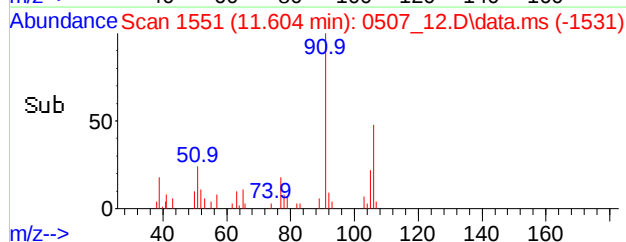
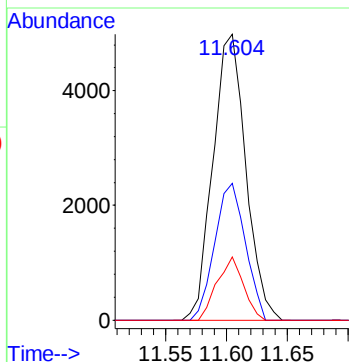
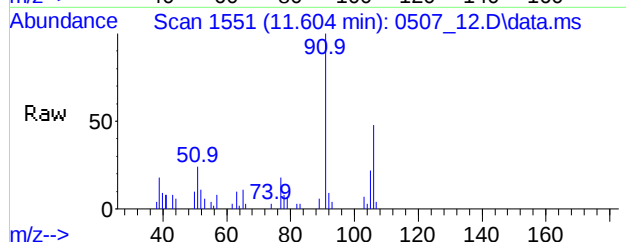
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.7	39.4	59.2
105	21.8	16.8	25.2





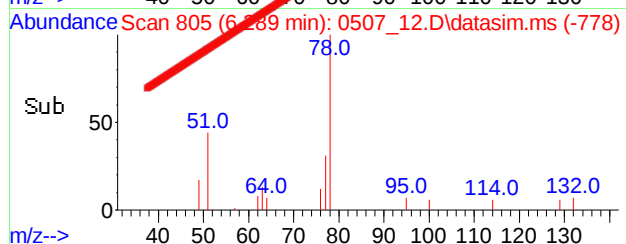
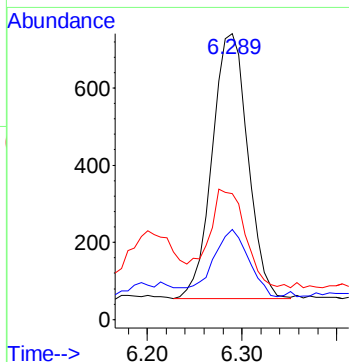
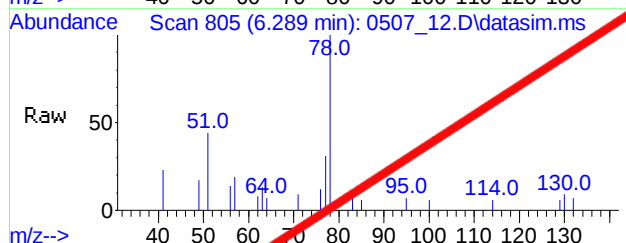
#61
o-Xylene
Conc: 8\$ 0.203 ppbv
RT: 11.604 min Scan# 1551
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

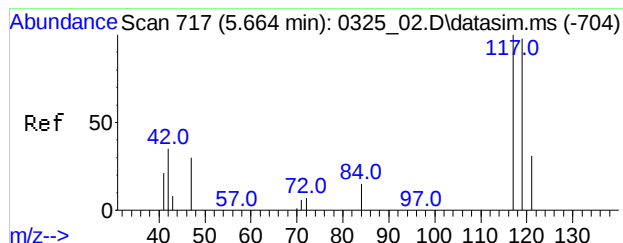
Tgt Ion: 91 Resp: 9257
Ion Ratio Lower Upper
91 100
106 44.6 37.5 56.3
105 17.8 13.5 20.3



#86
Benzene(sim)
Conc: 8\$ Below Cal
RT: 6.289 min Scan# 805
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

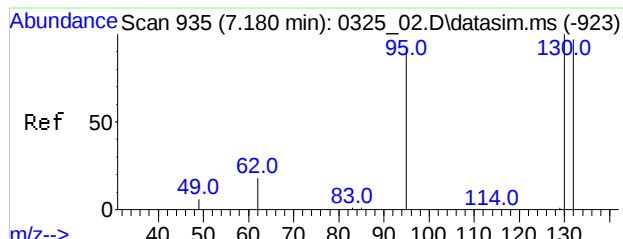
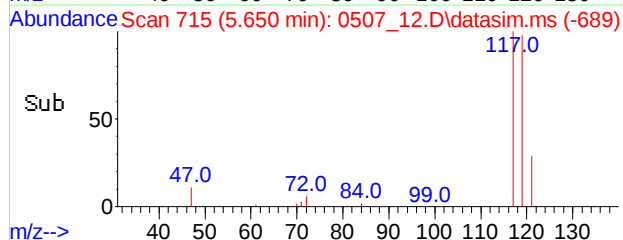
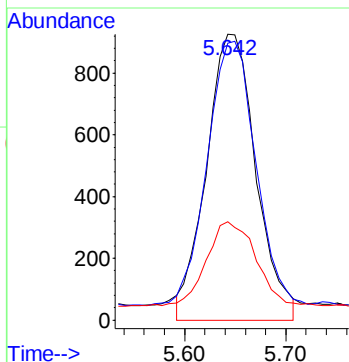
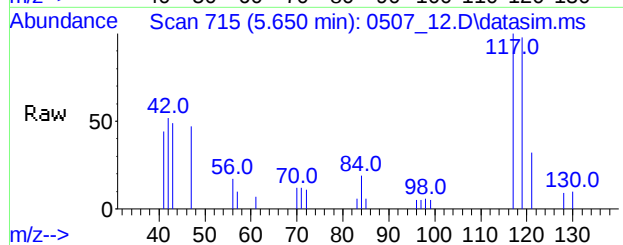
Tgt Ion: 78 Resp: 1782
Ion Ratio Lower Upper
78 100
77 24.5 18.6 28.0
51 38.7 25.4 38.2#





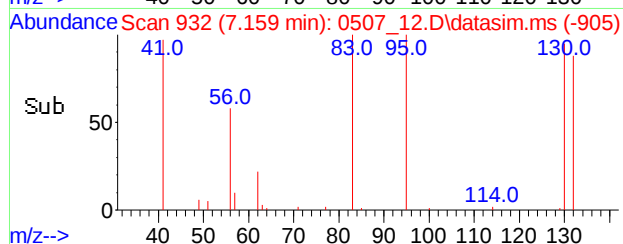
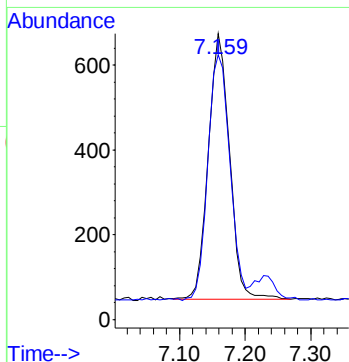
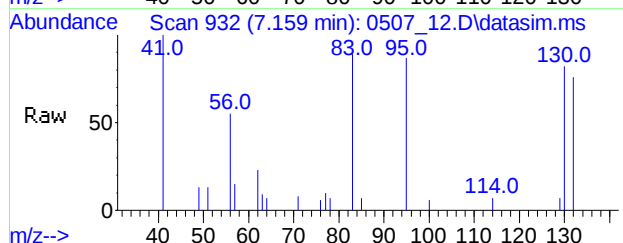
#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.084 ppbv
RT: 5.647 min Scan# 715
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

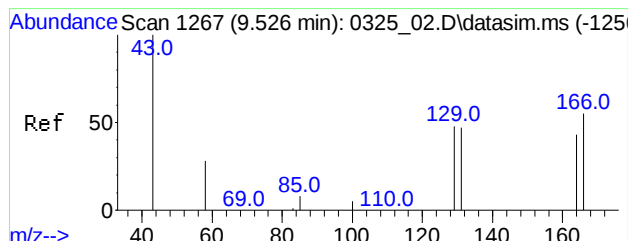
Tgt Ion: 117 Resp: 2877
Ion Ratio Lower Upper
117 100
119 102.1 84.7 127.1
121 25.0 21.1 31.7



#98
Trichloroethene(sim)
Conc: 8\$ 0.073 ppbv
RT: 7.159 min Scan# 932
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

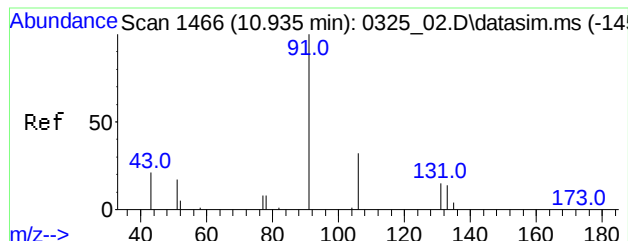
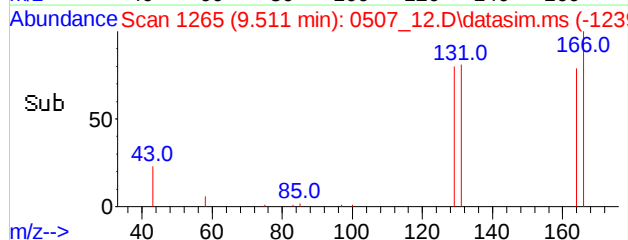
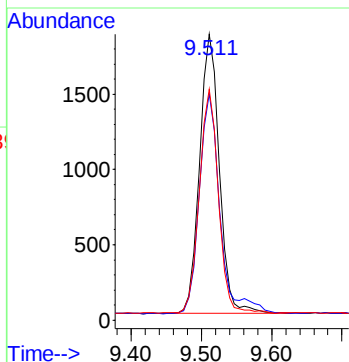
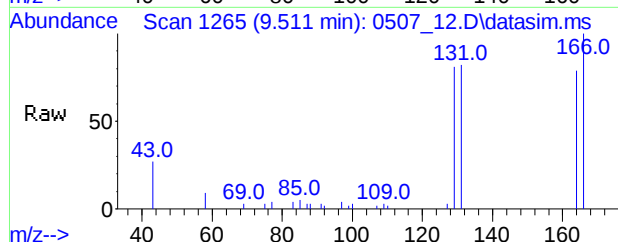
Tgt Ion: 130 Resp: 1386
Ion Ratio Lower Upper
130 100
132 97.0 80.8 121.2





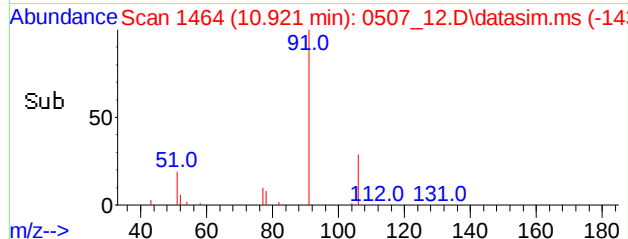
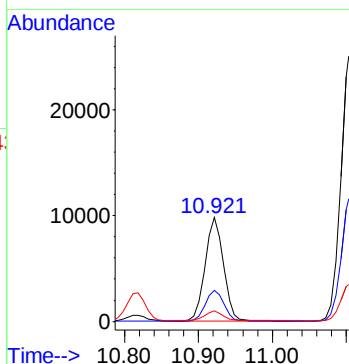
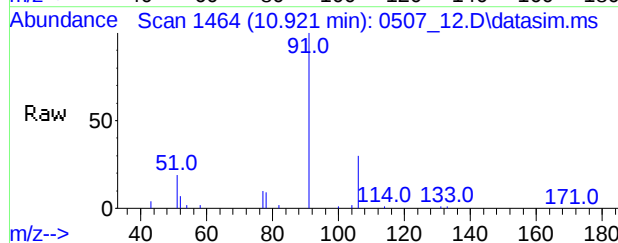
#104
Tetrachloroethene(sim)
Conc: 8\$ 0.138 ppbv
RT: 9.511 min Scan# 1265
Delta R.T. -0.015 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

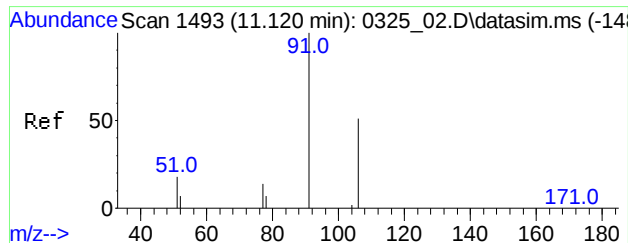
Tgt Ion: 166 Resp: 3591
Ion Ratio Lower Upper
166 100
164 82.5 58.0 98.0
129 77.4 54.2 94.2



#108
Ethylbenzene(sim)
Conc: 8\$ 0.257 ppb
RT: 10.921 min Scan# 1464
Delta R.T. -0.014 min
Lab File: 0507_12.D
Acq: 7 May 2021 9:00 pm

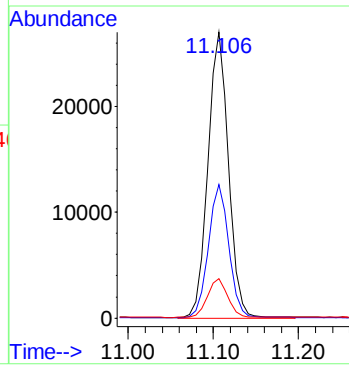
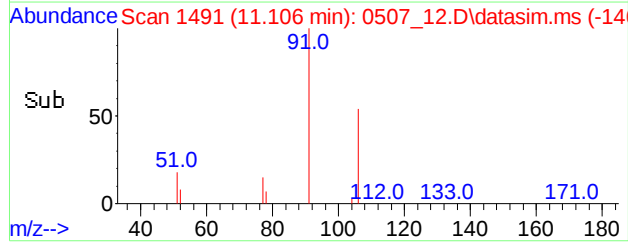
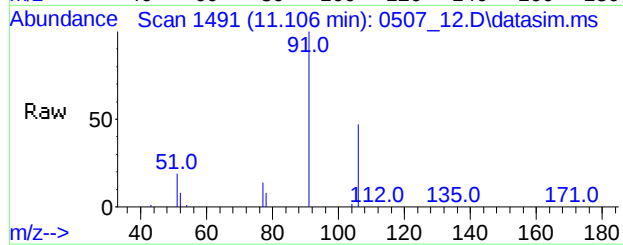
Tgt Ion: 91 Resp: 16633
Ion Ratio Lower Upper
91 100
106 30.5 24.8 37.2
77 9.4 7.5 11.3





#109
 m,p-Xylene(sim)
 Conc: 8\$ 0.937 ppbv
 RT: 11.104 min Scan# 1491
 Delta R.T. -0.013 min
 Lab File: 0507_12.D
 Acq: 7 May 2021 9:00 pm

Tgt Ion	91	Resp	40841
Ion Ratio	Lower	Upper	
91	100		
106	47.7	44.4	54.2
77	13.4	11.7	17.5



Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_13.D
 Acq On : 7 May 2021 9:44 pm
 Operator : Keith
 Client ID : MWIA-04
 Lab ID : CI26502
 ALS Vial : 12 Sample Multiplier: 1

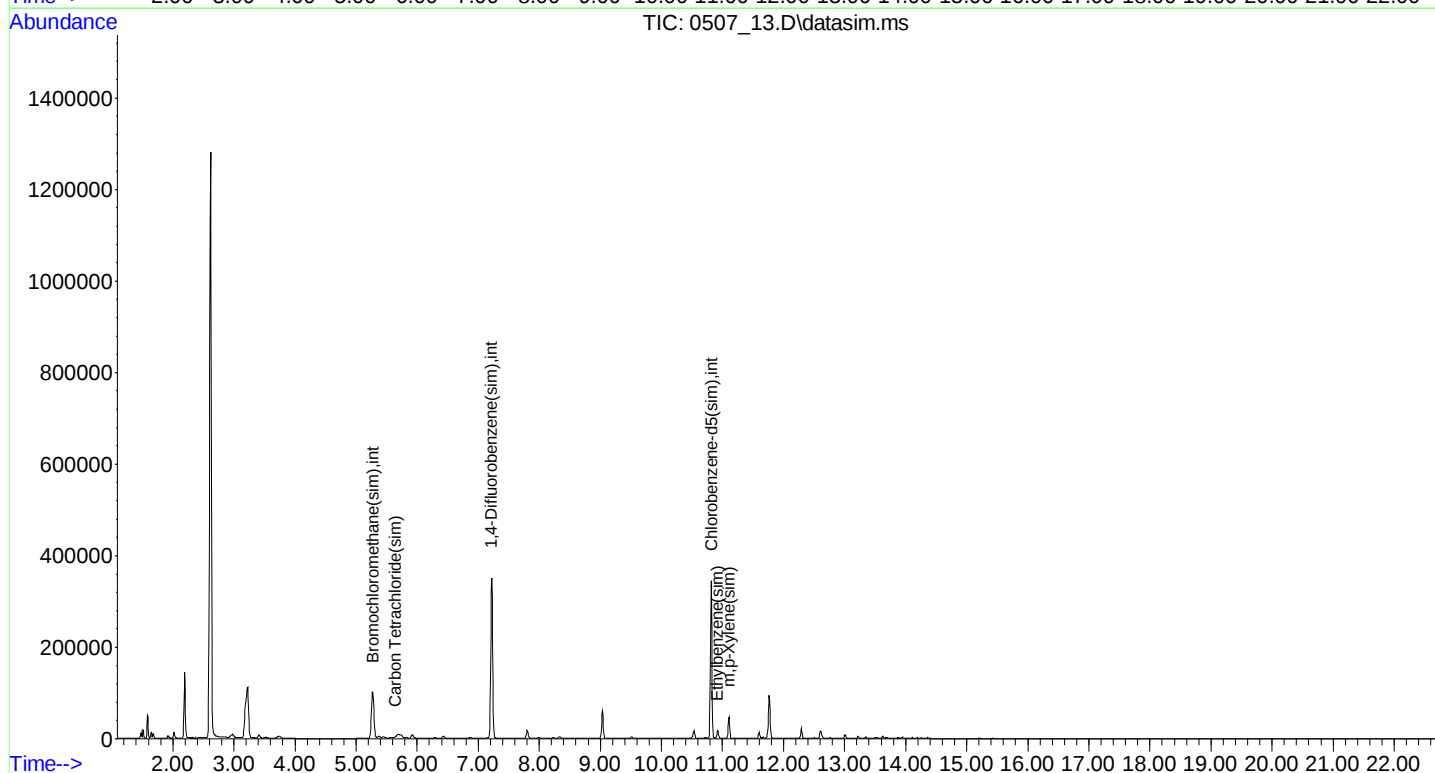
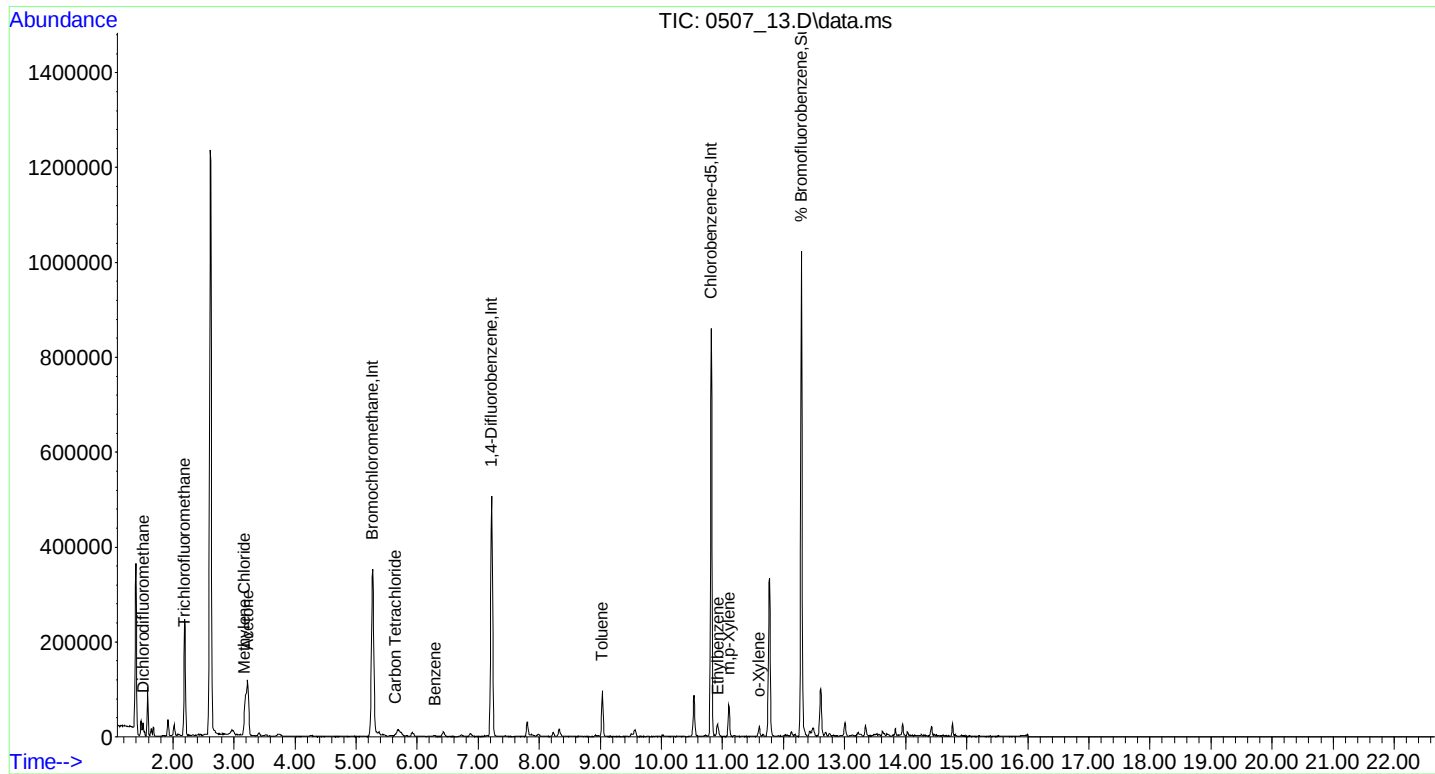
Quant Time: May 08 14:47:58 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

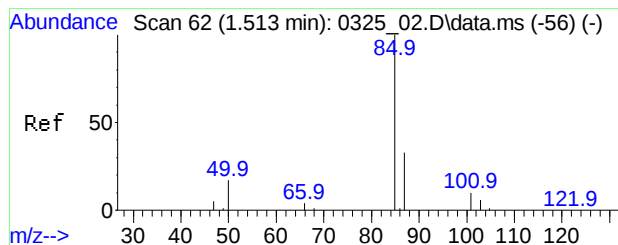
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	130247	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.218	114	419122	10.000	ng	-0.02
53) Chlorobenzene-d5	10.816	82	223624	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.275	130	139021	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.218	114	419122	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.816	82	223624	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	314006	10.012	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.10%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.513	85	11849	0.410	ppbv	96
12) Acetone	3.224	43	147998	4.350	ppbv	98
13) Trichlorofluoromethane	2.184	101	13539	0.397	ppbv	93
17) Methylene Chloride	3.176	49	35879	1.550	ppbv#	88
33) Benzene	6.293	78	1696	0.055	ppbv#	81
34) Carbon Tetrachloride	5.647	117	2688	0.083	ppbv	96
48) Toluene	9.032	91	58886	1.517	ppbv	99
56) Ethylbenzene	10.925	91	13921	0.252	ppbv	89
57) m, p-Xylene	11.104	91	35897	0.849	ppbv	100
61) o-Xylene	11.598	91	9435	0.206	ppbv	98
86] Benzene(sim)	6.290	78	1909	0.050	ppbv#	93
87] Carbon Tetrachloride(sim)	5.647	117	2629	0.076	ppbv#	93
108] Ethylbenzene(sim)	10.921	91	16010	0.246	ppb	99
109] m, p-Xylene(sim)	11.104	91	35852	0.818	ppbv	99

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_13.D
Acq On : 7 May 2021 9:44 pm
Operator : Keith
Client ID : MWIA-04
Lab ID : CI26502
ALS Vial : 12 Sample Multiplier: 1

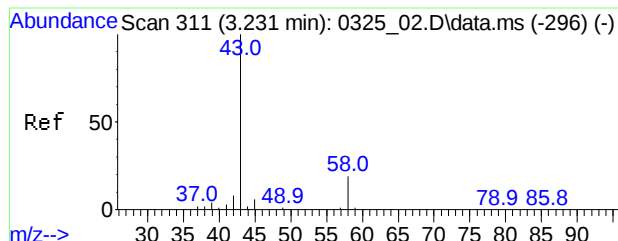
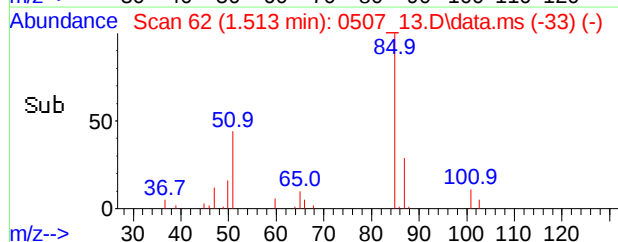
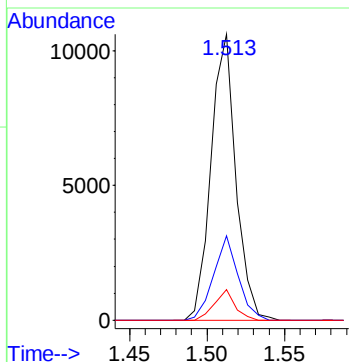
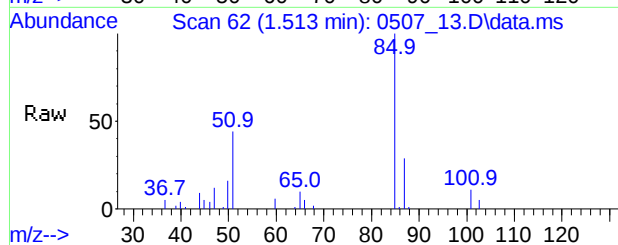
Quant Time: May 08 14:47:58 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





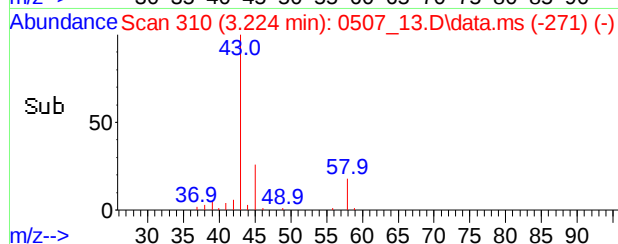
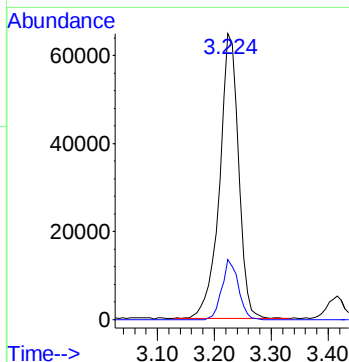
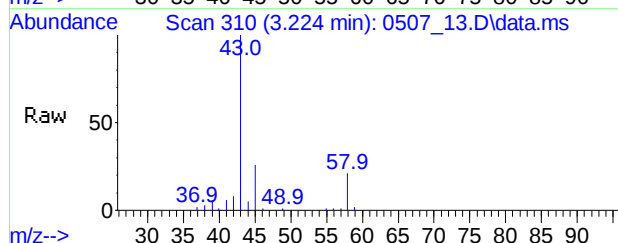
#3
Dichlorodifluoromethane
Conc: 8\$ 0.410 ppbv
RT: 1.513 min Scan# 62
Delta R.T. -0.000 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

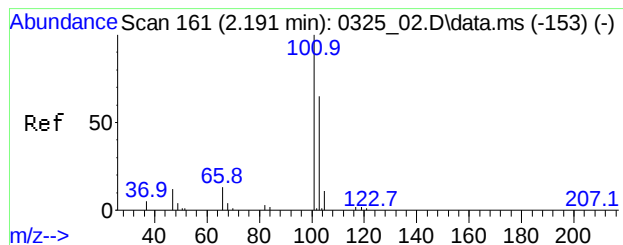
Tgt Ion: 85 Resp: 11849
Ion Ratio Lower Upper
85 100
87 29.3 25.8 38.8
101 8.9 7.3 10.9



#12
Acetone
Conc: 8\$ 4.350 ppbv
RT: 3.224 min Scan# 310
Delta R.T. -0.034 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

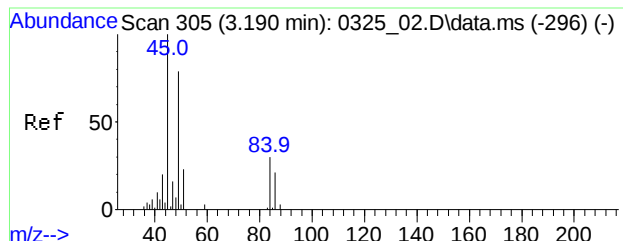
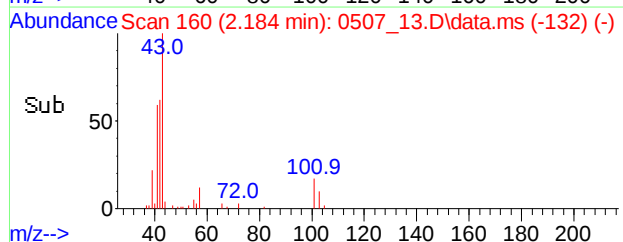
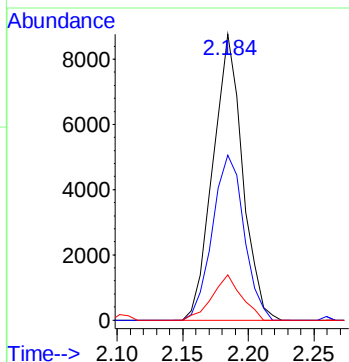
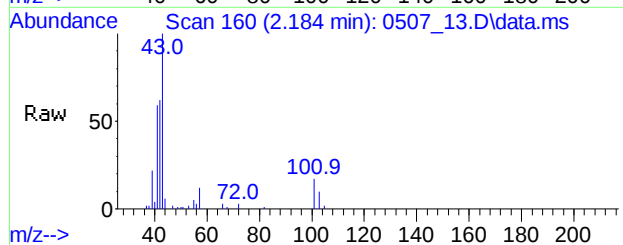
Tgt Ion: 43 Resp: 147998
Ion Ratio Lower Upper
43 100
58 18.0 15.0 22.4





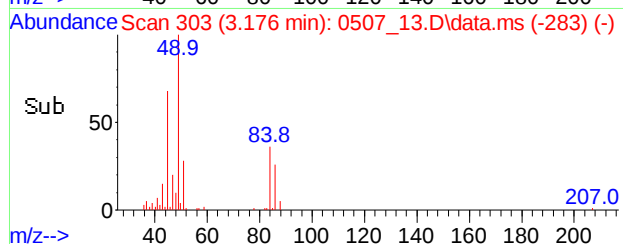
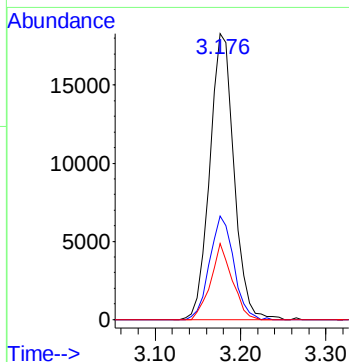
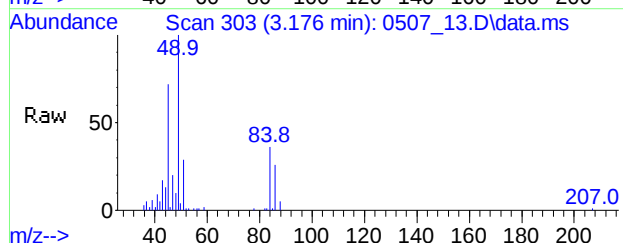
#13
Trichlorofluoromethane
Conc: 8\$ 0.397 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

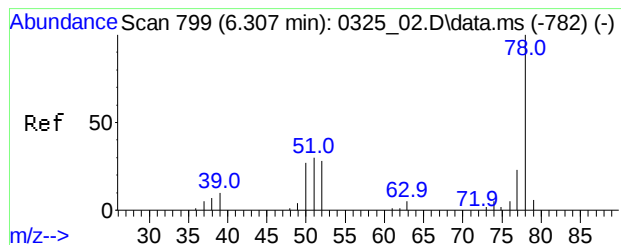
Tgt Ion	Ratio	Lower	Upper
101	100		
103	61.9	54.6	82.0
66	15.7	12.2	18.4



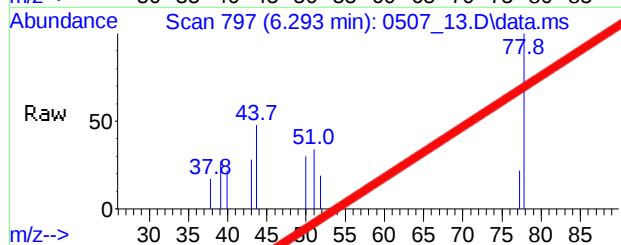
#17
Methylene Chloride
Conc: 8\$ 1.550 ppbv
RT: 3.176 min Scan# 303
Delta R.T. -0.014 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

Tgt Ion	Ratio	Lower	Upper
49	100		
84	36.1	36.2	54.2#
86	23.5	22.3	33.5

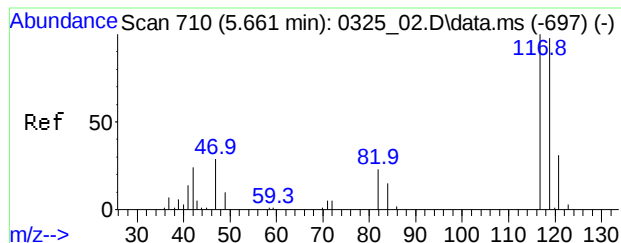
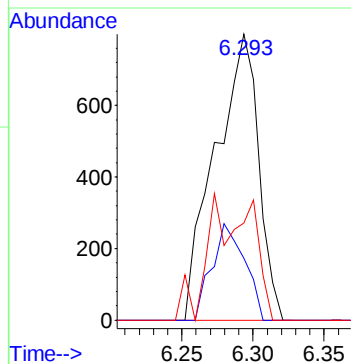
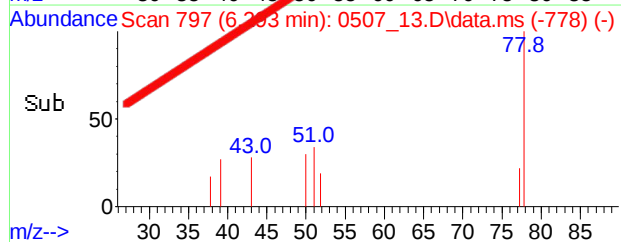




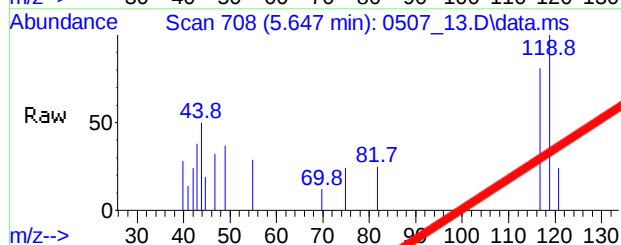
#33
Benzene
Conc: 8% Below Cal
RT: 6.293 min Scan# 797
Delta R.T. -0.021 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm



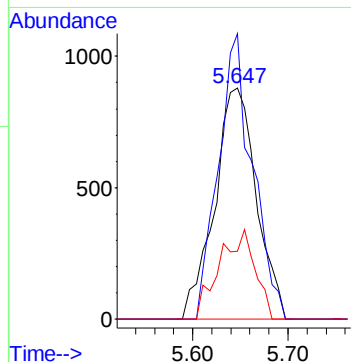
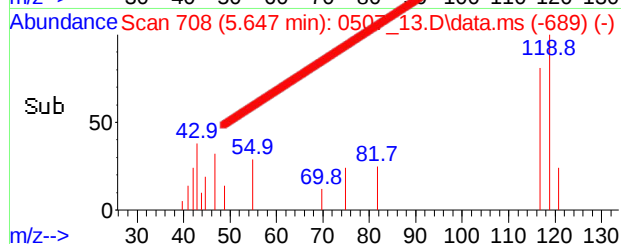
Total Ion: 78 Resp: 1696
Ion Ratio Lower Upper
78 100
77 25.5 19.1 28.7
51 20.3 30.3 45.5#

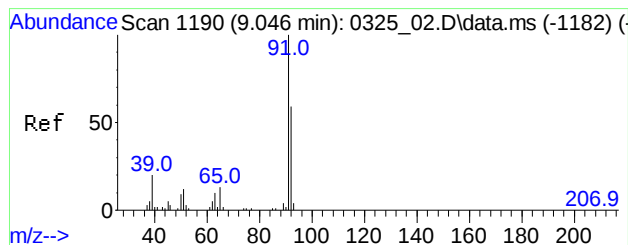


#34
Carbon Tetrachloride
Conc: 8% Below Cal
RT: 5.647 min Scan# 708
Delta R.T. -0.014 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm



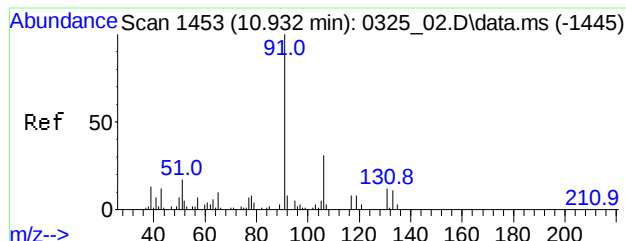
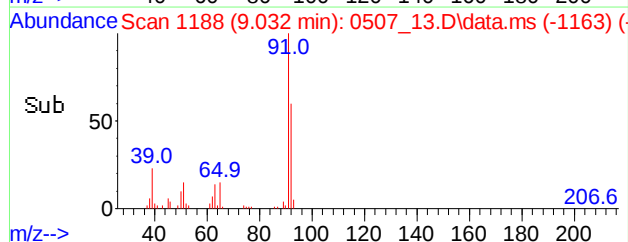
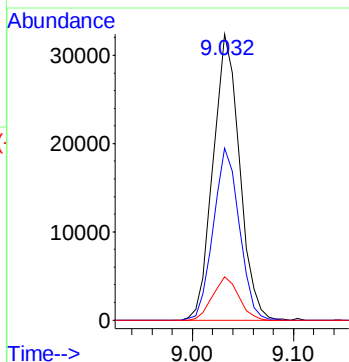
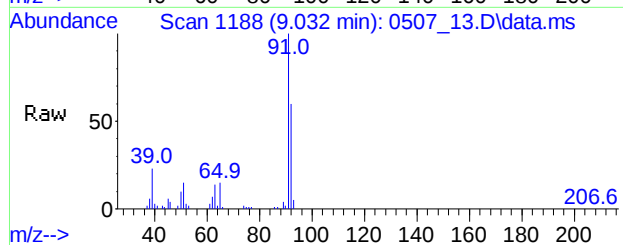
Tgt Ion: 117 Resp: 2688
Ion Ratio Lower Upper
117 100
119 100.3 85.1 125.1
121 33.0 11.0 51.0





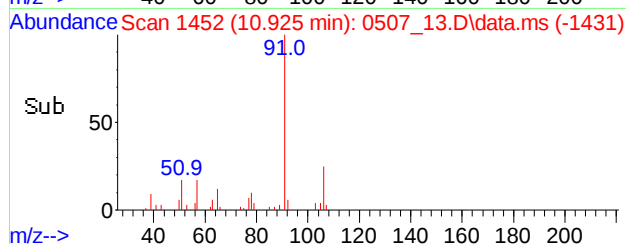
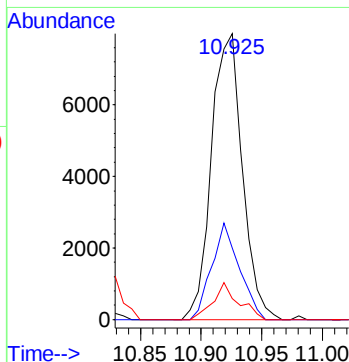
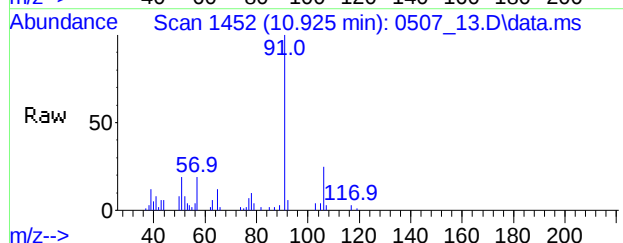
#48
Toluene
Conc: 8\$ 1.517 ppbv
RT: 9.032 min Scan# 1188
Delta R.T. -0.021 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

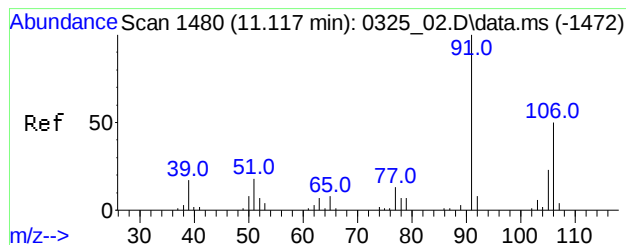
Tgt Ion: 91 Resp: 58886
Ion Ratio Lower Upper
91 100
92 58.9 47.4 71.2
65 14.8 10.2 15.4



#56
Ethylbenzene
Conc: 8\$ 0.252 ppbv
RT: 10.925 min Scan# 1452
Delta R.T. -0.007 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

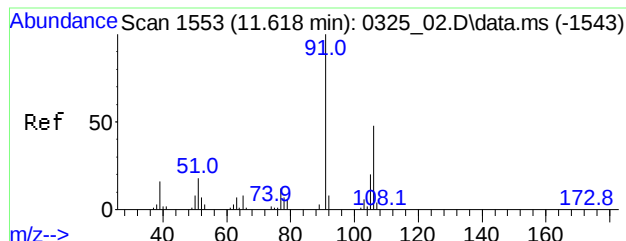
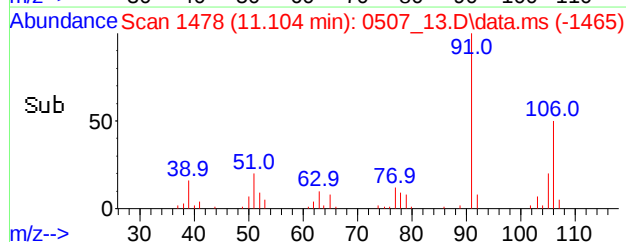
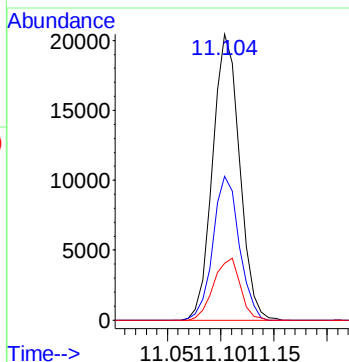
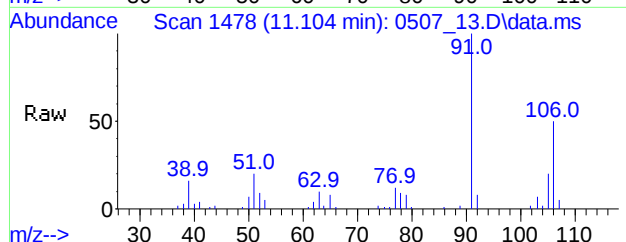
Tgt Ion: 91 Resp: 13921
Ion Ratio Lower Upper
91 100
106 30.2 17.7 57.7
77 10.6 0.0 32.7





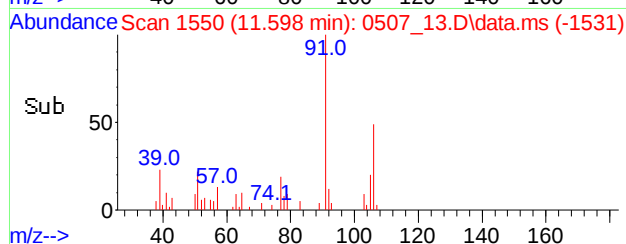
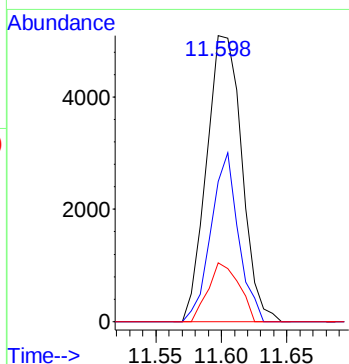
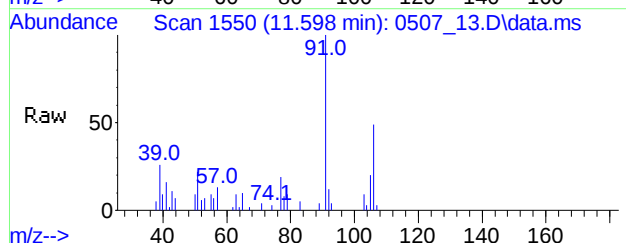
#57
m,p-Xylene
Conc: 8\$ 0.849 ppbv
RT: 11.104 min Scan# 1478
Delta R.T. -0.013 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

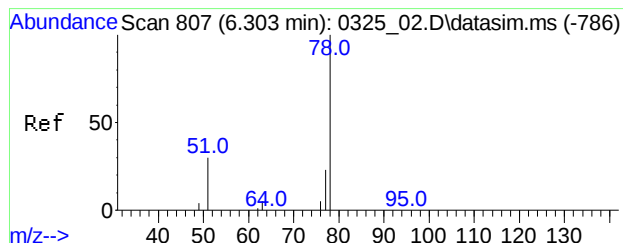
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.1	39.4	59.2
105	21.4	16.8	25.2



#61
o-Xylene
Conc: 8\$ 0.206 ppbv
RT: 11.598 min Scan# 1550
Delta R.T. -0.020 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

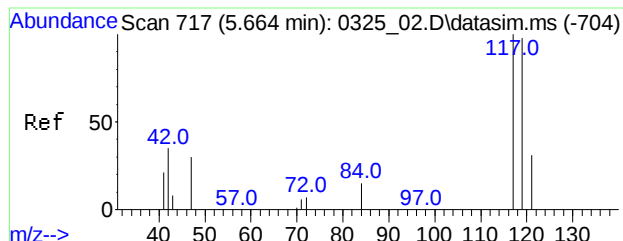
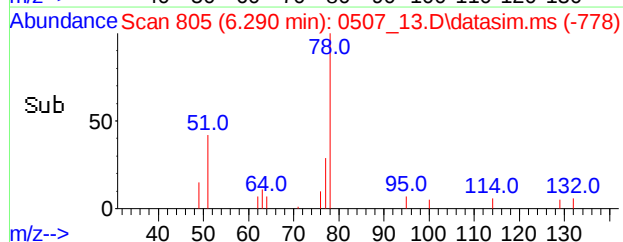
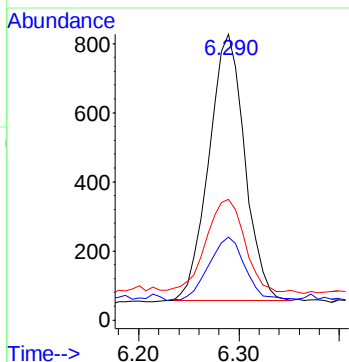
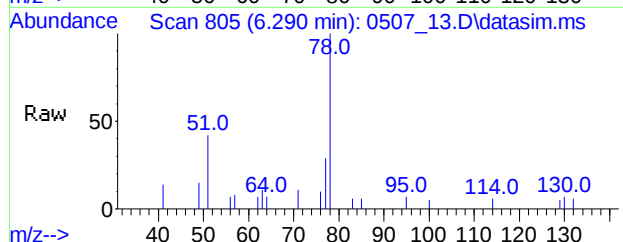
Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.7	37.5	56.3
105	17.8	13.5	20.3





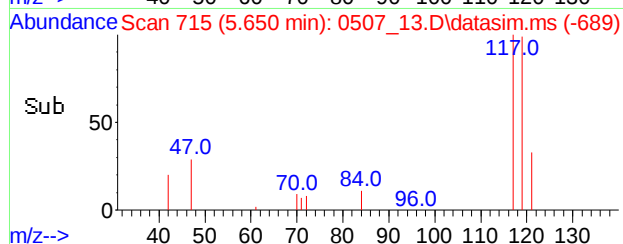
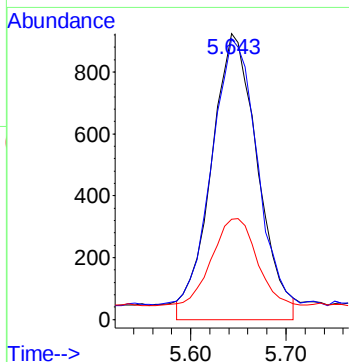
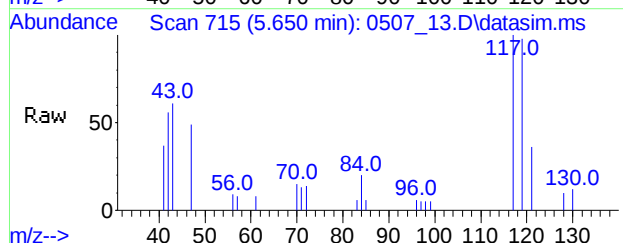
#86
Benzene(sim)
Conc: 8\$ Below Cal
RT: 6.290 min Scan# 805
Delta R.T. -0.013 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

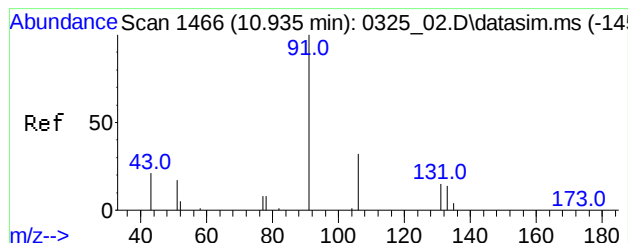
Tgt Ion: 78 Resp: 1909
Ion Ratio Lower Upper
78 100
77 23.4 18.6 28.0
51 38.7 25.4 38.2#



#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 5.647 min Scan# 715
Delta R.T. -0.014 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

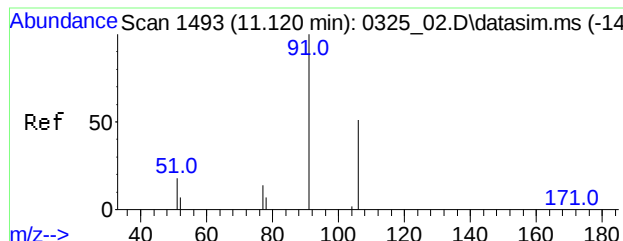
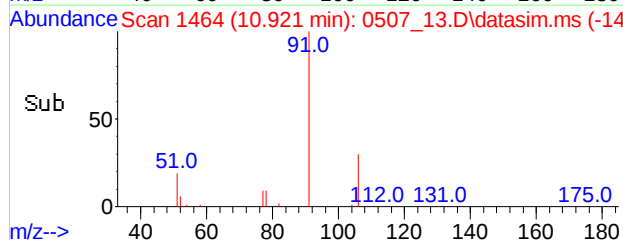
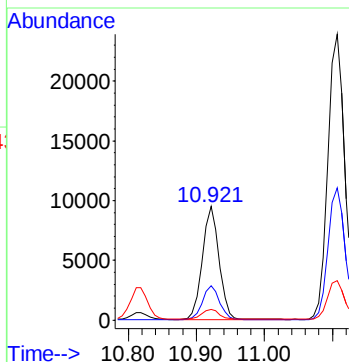
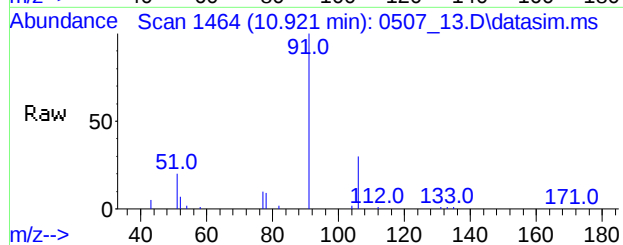
Tgt Ion: 117 Resp: 2629
Ion Ratio Lower Upper
117 100
119 100.4 84.7 127.1
121 20.5 21.1 31.7#





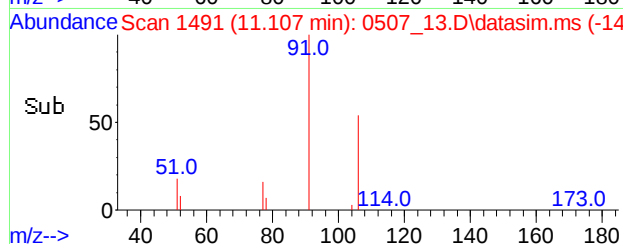
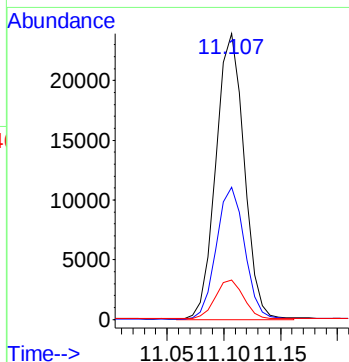
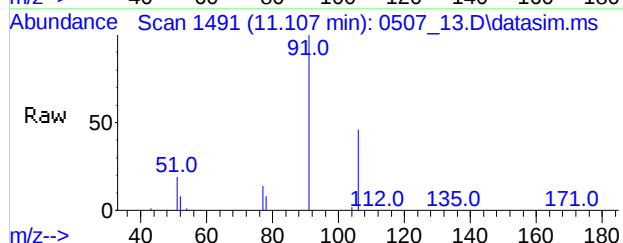
#108
Ethylbenzene(sim)
Conc: 8\$ 0.246 ppb
RT: 10.921 min Scan# 1464
Delta R.T. -0.014 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

Tgt Ion: 91 Resp: 16010
Ion Ratio Lower Upper
91 100
106 30.2 24.8 37.2
77 9.2 7.5 11.3



#109
m,p-Xylene(sim)
Conc: 8\$ 0.818 ppbv
RT: 11.104 min Scan# 1491
Delta R.T. -0.013 min
Lab File: 0507_13.D
Acq: 7 May 2021 9:44 pm

Tgt Ion: 91 Resp: 35852
Ion Ratio Lower Upper
91 100
106 49.1 44.4 54.2
77 13.2 11.7 17.5



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCI26499	Lab Sample ID:	CI26503
Canister:	21339	Lab File ID:	0507_14.D
Instrument:	CHEM24	Column:	RTX-VMS
		Date Received:	05/07/21
Purge Volume	200 (cc)	Date Analyzed:	05/07/21
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_14.D
 Acq On : 7 May 2021 10:27 pm
 Operator : Keith
 Client ID : MWIA-05
 Lab ID : CI26503
 ALS Vial : 13 Sample Multiplier: 1

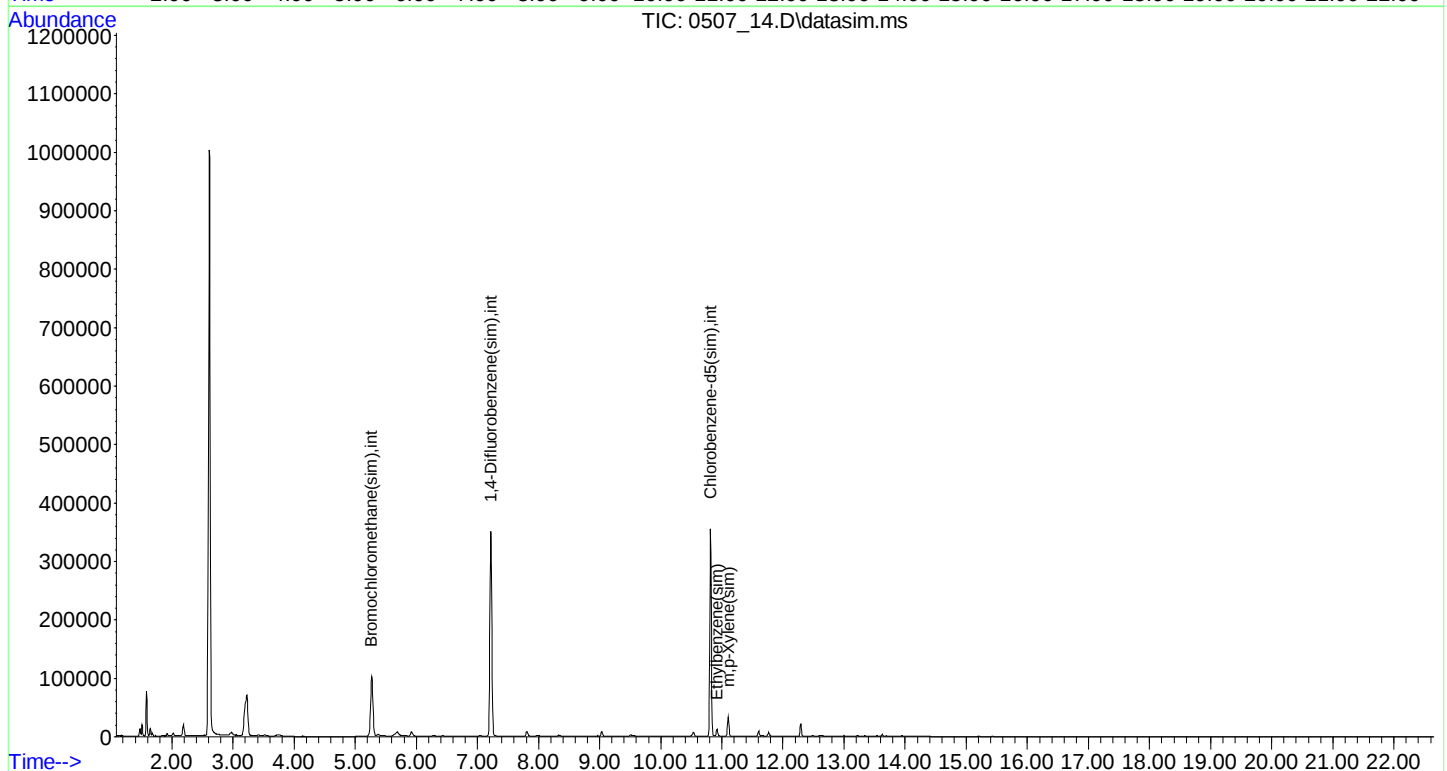
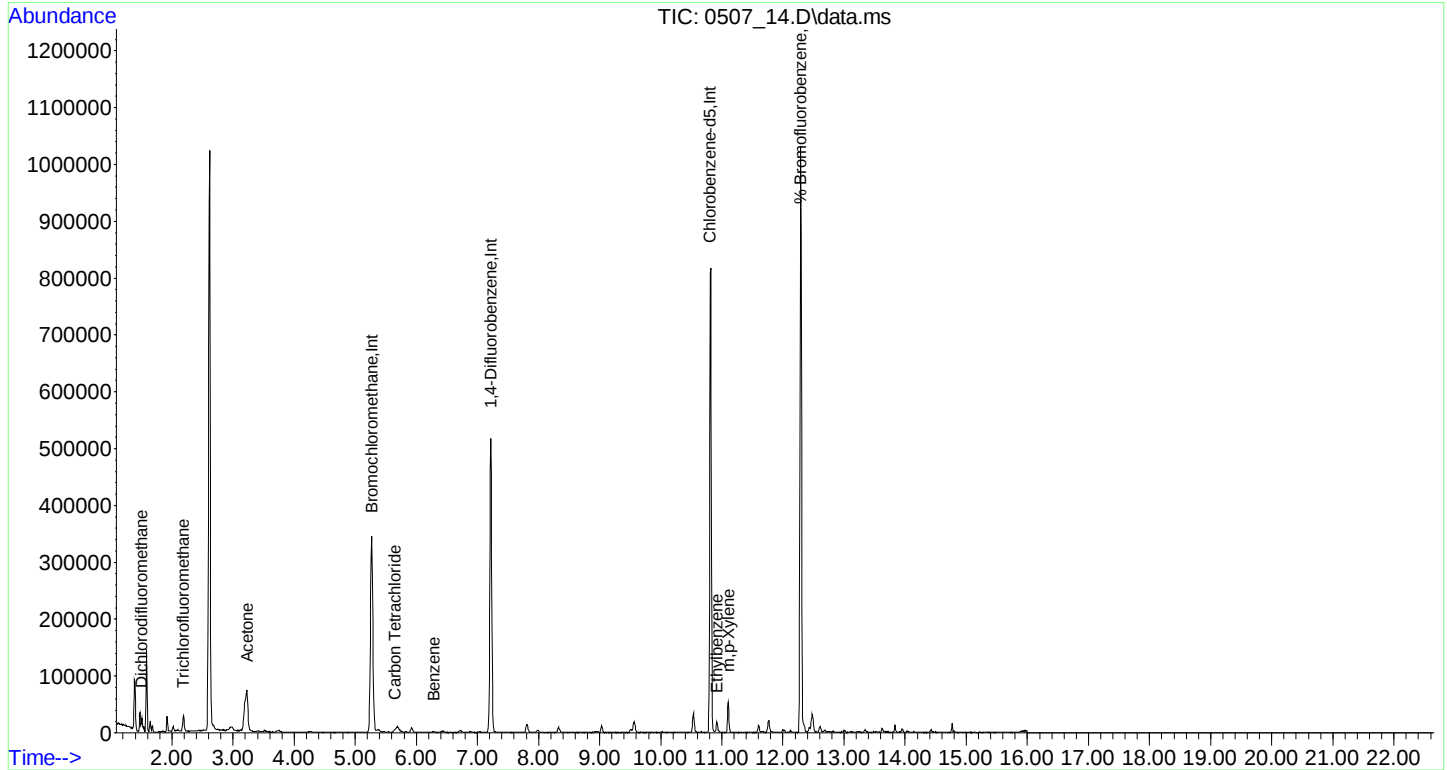
Quant Time: May 08 14:48:25 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

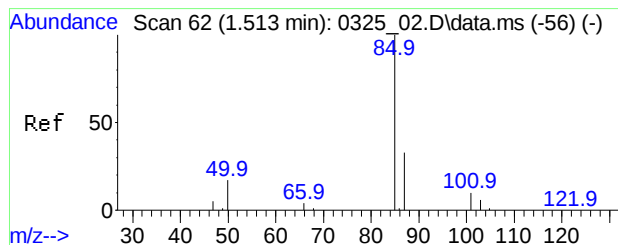
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.274	130	132072	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.220	114	420782	10.000	ng	-0.02
53) Chlorobenzene-d5	10.811	82	220158	10.000	ng	-0.02
80) Bromochloromethane(sim)	5.270	130	139291	10.000	ng	#-0.02
95) 1,4-Difluorobenzene(sim)	7.220	114	420782	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.811	82	220158	10.000	ng	-0.02
System Monitoring Compounds						
62) % Bromofluorobenzene	12.291	95	311470	10.087	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.90%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.506	85	11734	0.401	ppbv	99
12) Acetone	3.231	43	94042	2.726	ppbv	98
13) Trichlorofluoromethane	2.184	101	12522	0.362	ppbv	95
33) Benzene	6.288	78	1715	0.055	ppbv	95
34) Carbon Tetrachloride	5.656	117	2903	0.089	ppbv	90
48) Toluene	9.034	91	7708	0.198	ppbv	97
56) Ethylbenzene	10.920	91	9880	0.181	ppbv	93
57) m,p-Xylene	11.106	91	26993	0.648	ppbv	96
86] Benzene(sim)	6.284	78	1851	0.048	ppbv	95
108] Ethylbenzene(sim)	10.923	91	11064	0.173	ppb	99
109] m,p-Xylene(sim)	11.106	91	26993	0.626	ppbv	97

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_14.D
Acq On : 7 May 2021 10:27 pm
Operator : Keith
Client ID : MWIA-05
Lab ID : CI26503
ALS Vial : 13 Sample Multiplier: 1

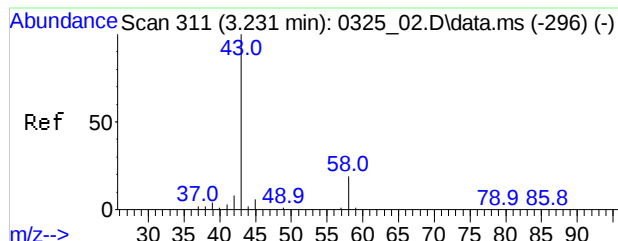
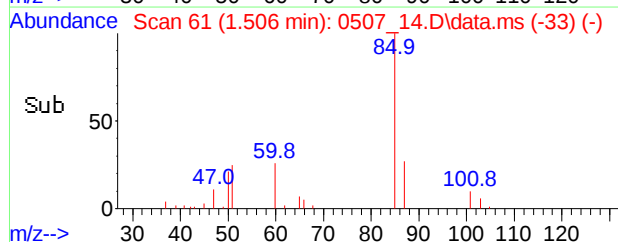
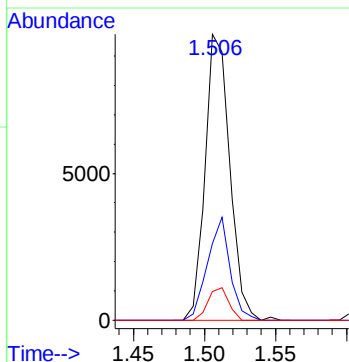
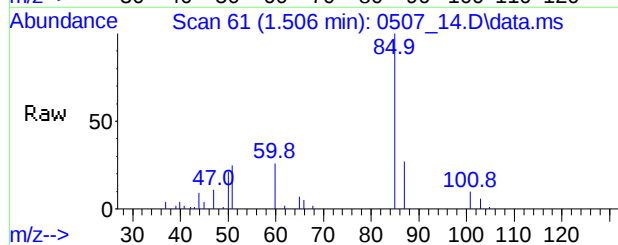
Quant Time: May 08 14:48:25 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





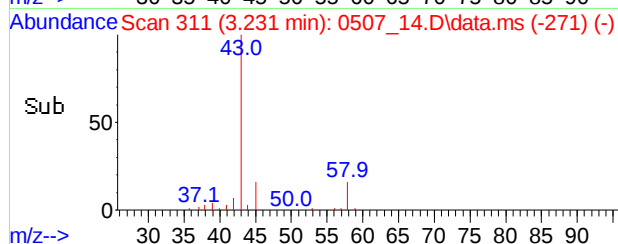
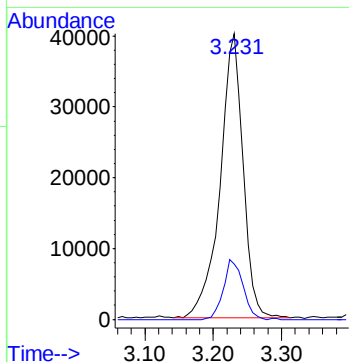
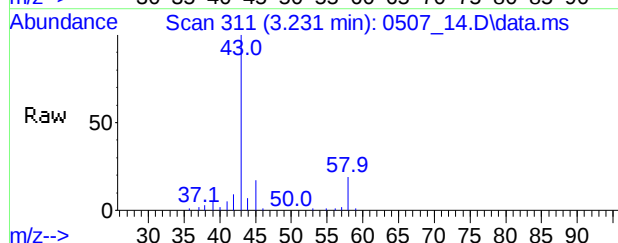
#3
Dichlorodifluoromethane
Conc: 8\$ 0.401 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

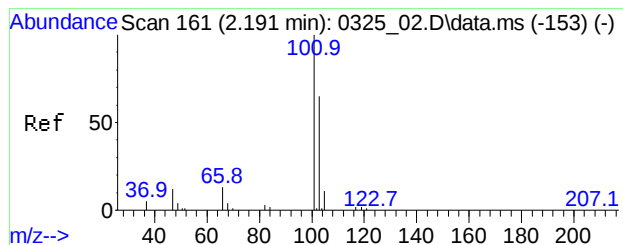
Tgt Ion	85	Resp	11734
Ion Ratio	100	Lower	Upper
85	100		
87	32.7	25.8	38.8
101	9.5	7.3	10.9



#12
Acetone
Conc: 8\$ 2.726 ppbv
RT: 3.231 min Scan# 311
Delta R.T. -0.027 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

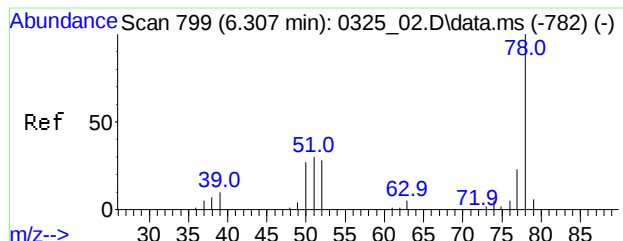
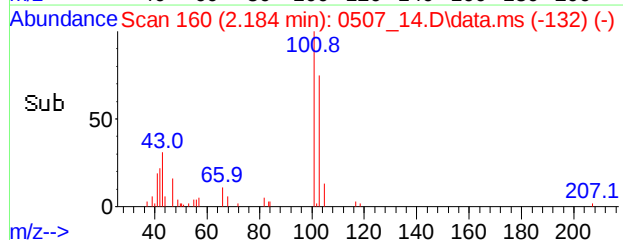
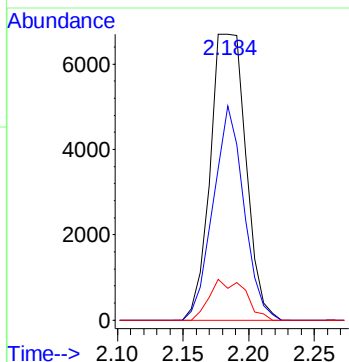
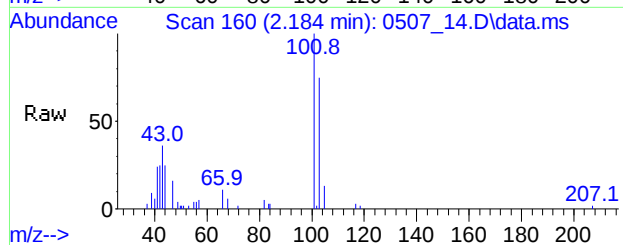
Tgt Ion	43	Resp	94042
Ion Ratio	100	Lower	Upper
43	100		
58	18.0	15.0	22.4





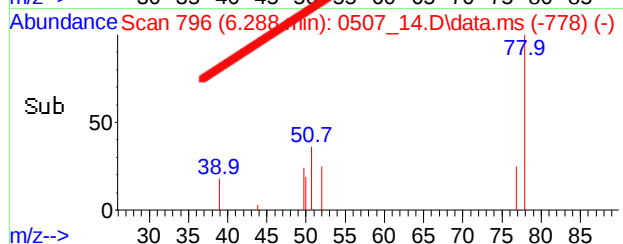
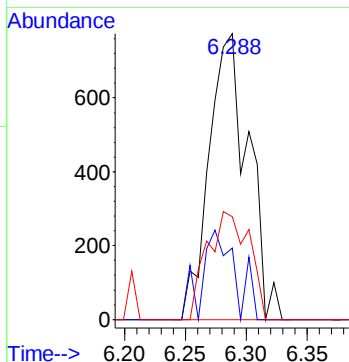
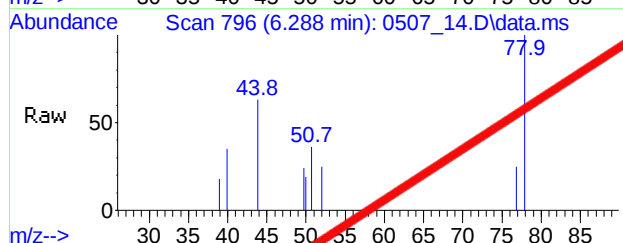
#13
Trichlorofluoromethane
Conc: 8\$ 0.362 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

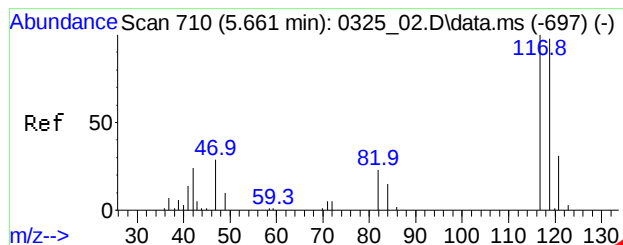
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.3	54.6	82.0
66	14.3	12.2	18.4



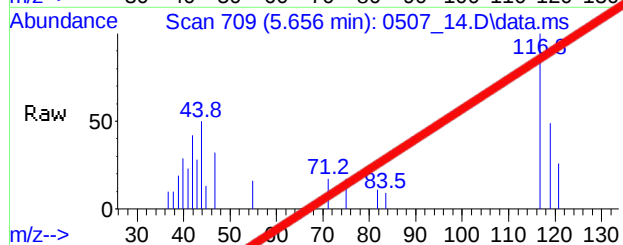
#33
Benzene
Conc: 8\$ Below Cal
RT: 6.288 min Scan# 796
Delta R.T. -0.026 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

Tgt Ion	Ratio	Lower	Upper
78	100		
77	26.8	19.1	28.7
51	40.3	30.3	45.5

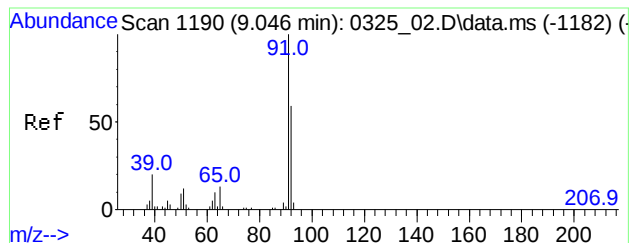
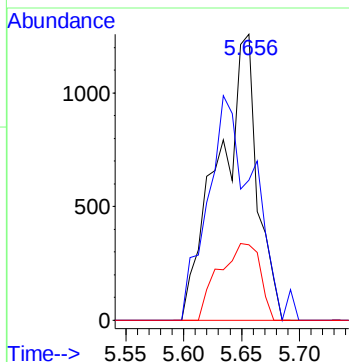
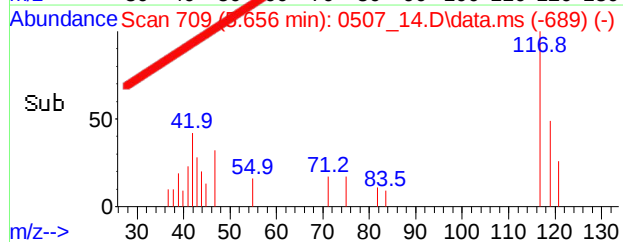




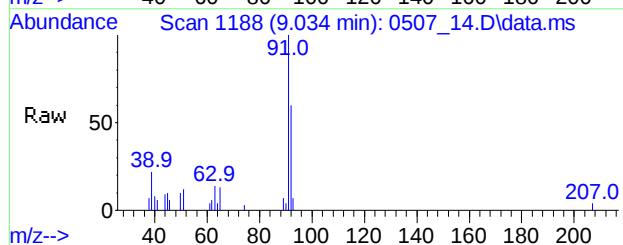
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.656 min Scan# 709
Delta R.T. -0.005 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm



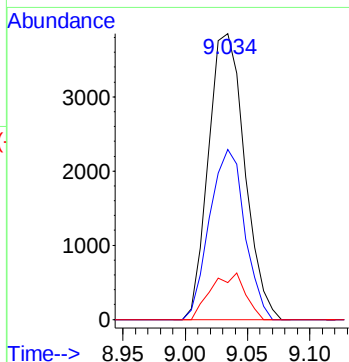
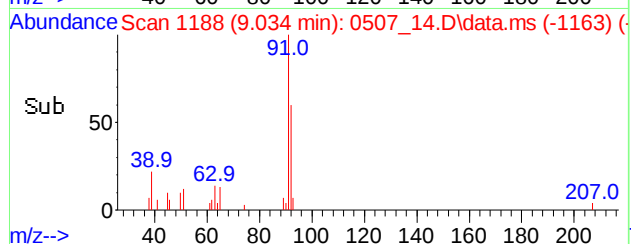
Tgt Ion: 117 Resp: 2903
Ion Ratio Lower Upper
117 100
119 92.7 85.1 125.1
121 28.5 11.0 51.0

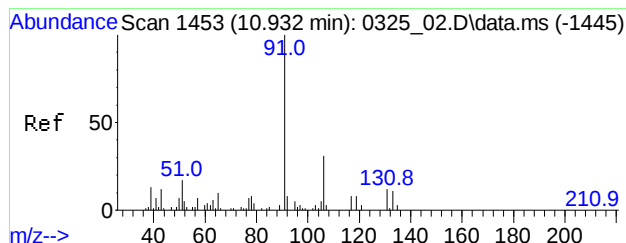


#48
Toluene
Conc: 8\$ 0.198 ppbv
RT: 9.034 min Scan# 1188
Delta R.T. -0.019 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm



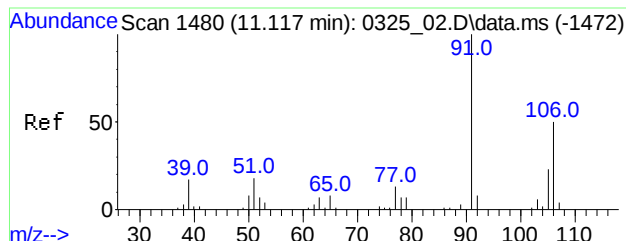
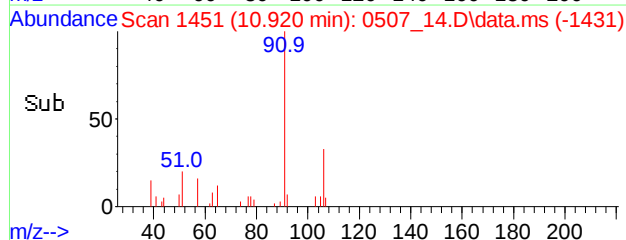
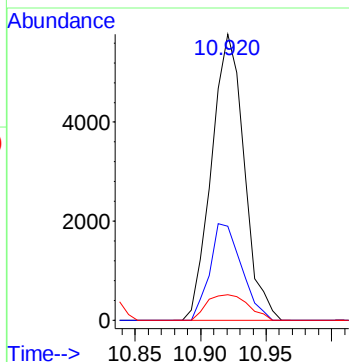
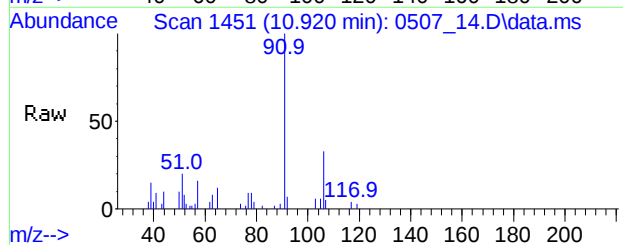
Tgt Ion: 91 Resp: 7708
Ion Ratio Lower Upper
91 100
92 57.7 47.4 71.2
65 15.3 10.2 15.4





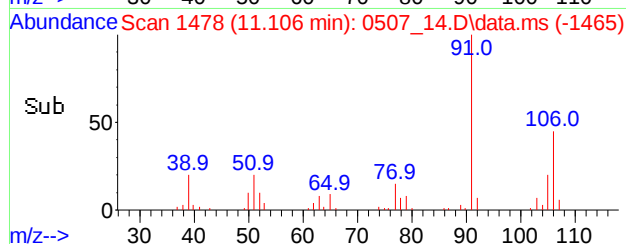
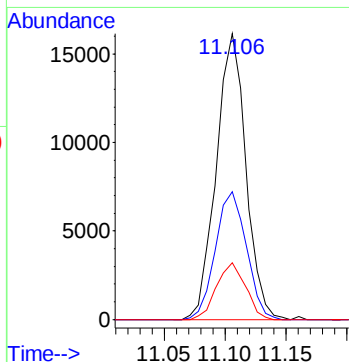
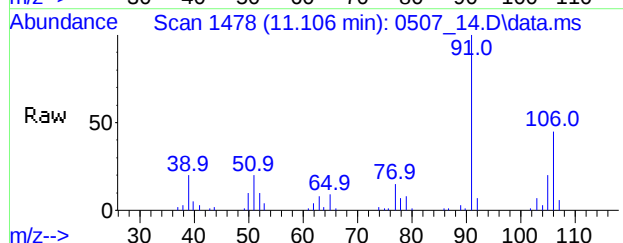
#56
Ethylbenzene
Conc: 8\$ 0.181 ppbv
RT: 10.920 min Scan# 1451
Delta R.T. -0.012 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

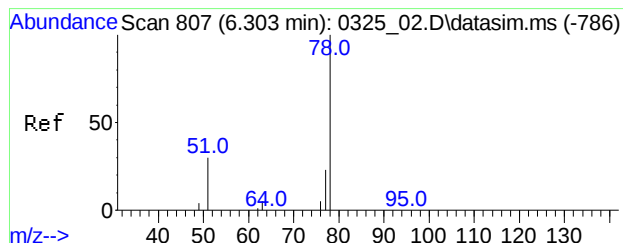
Tgt Ion:	91	Resp:	9880
Ion Ratio	Lower	Upper	
91	100		
106	32.9	17.7	57.7
77	11.3	0.0	32.7



#57
m,p-Xylene
Conc: 8\$ 0.648 ppbv
RT: 11.106 min Scan# 1478
Delta R.T. -0.011 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

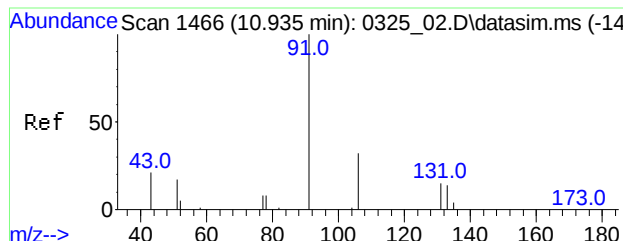
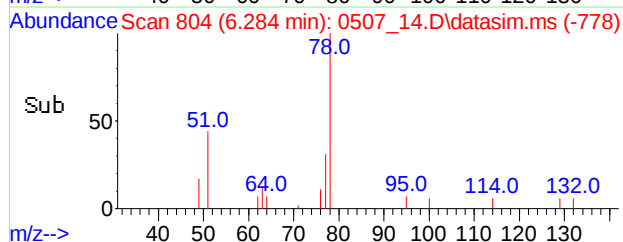
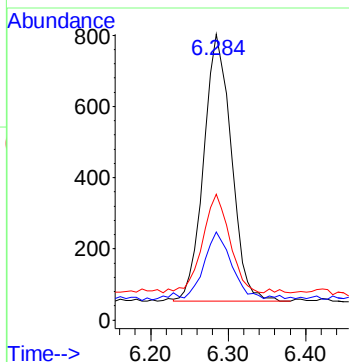
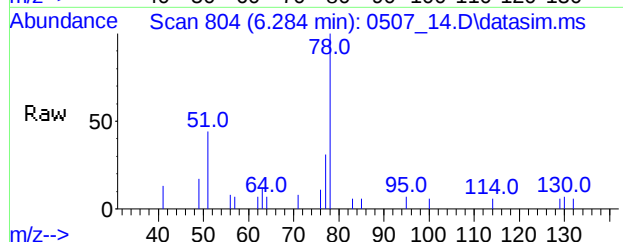
Tgt Ion:	91	Resp:	26993
Ion Ratio	Lower	Upper	
91	100		
106	46.8	39.4	59.2
105	19.4	16.8	25.2





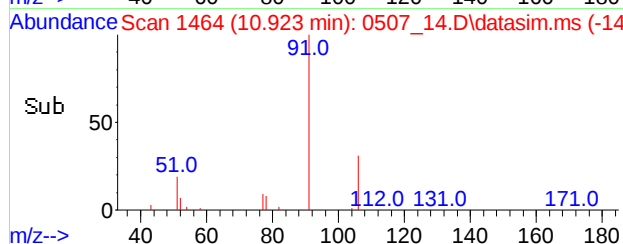
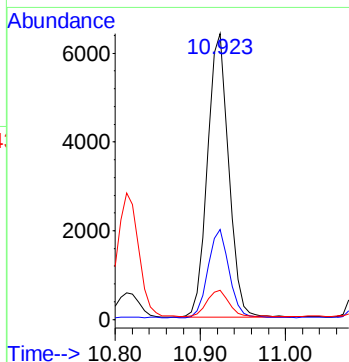
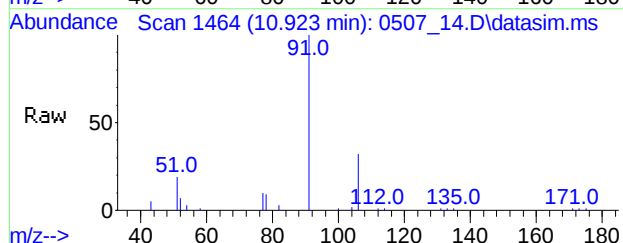
#86
Benzene(sim)
Conc: 8\$ Below Cal
RT: 6.284 min Scan# 804
Delta R.T. -0.019 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

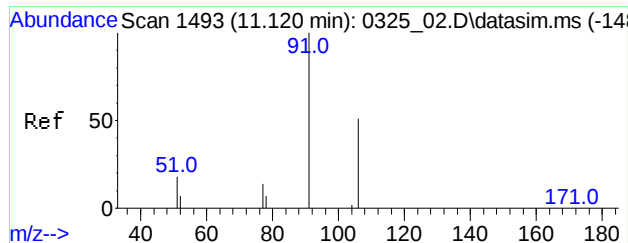
Tgt Ion: 78	Resp: 1851
Ion Ratio	Lower Upper
78 100	
77 24.2	18.6 28.0
51 35.5	25.4 38.2



#108
Ethylbenzene(sim)
Conc: 8\$ 0.173 ppb
RT: 10.923 min Scan# 1464
Delta R.T. -0.012 min
Lab File: 0507_14.D
Acq: 7 May 2021 10:27 pm

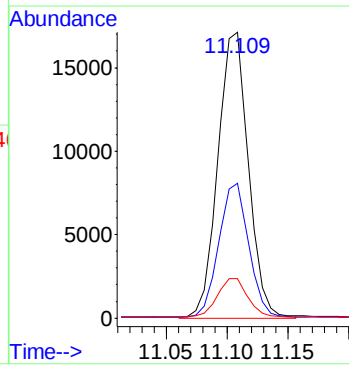
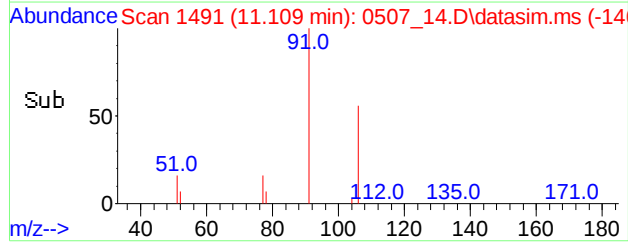
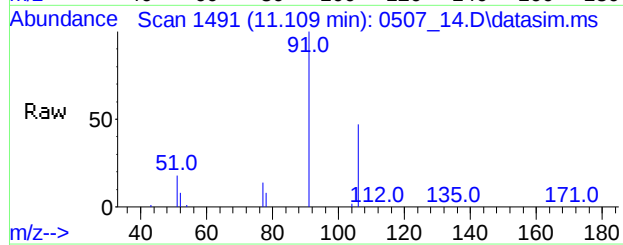
Tgt Ion: 91	Resp: 11064
Ion Ratio	Lower Upper
91 100	
106 30.7	24.8 37.2
77 9.5	7.5 11.3





#109
 m,p-Xylene(sim)
 Conc: 8\$ 0.626 ppbv
 RT: 11.106 min Scan# 1491
 Delta R.T. -0.011 min
 Lab File: 0507_14.D
 Acq: 7 May 2021 10:27 pm

Tgt Ion:	91	Resp:	26993
Ion Ratio	Lower	Upper	
91	100		
106	46.8	44.4	54.2
77	14.8	11.7	17.5



Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_15.D
 Acq On : 7 May 2021 11:12 pm
 Operator : Keith
 Client ID : MAAA-01
 Lab ID : CI26504
 ALS Vial : 14 Sample Multiplier: 1

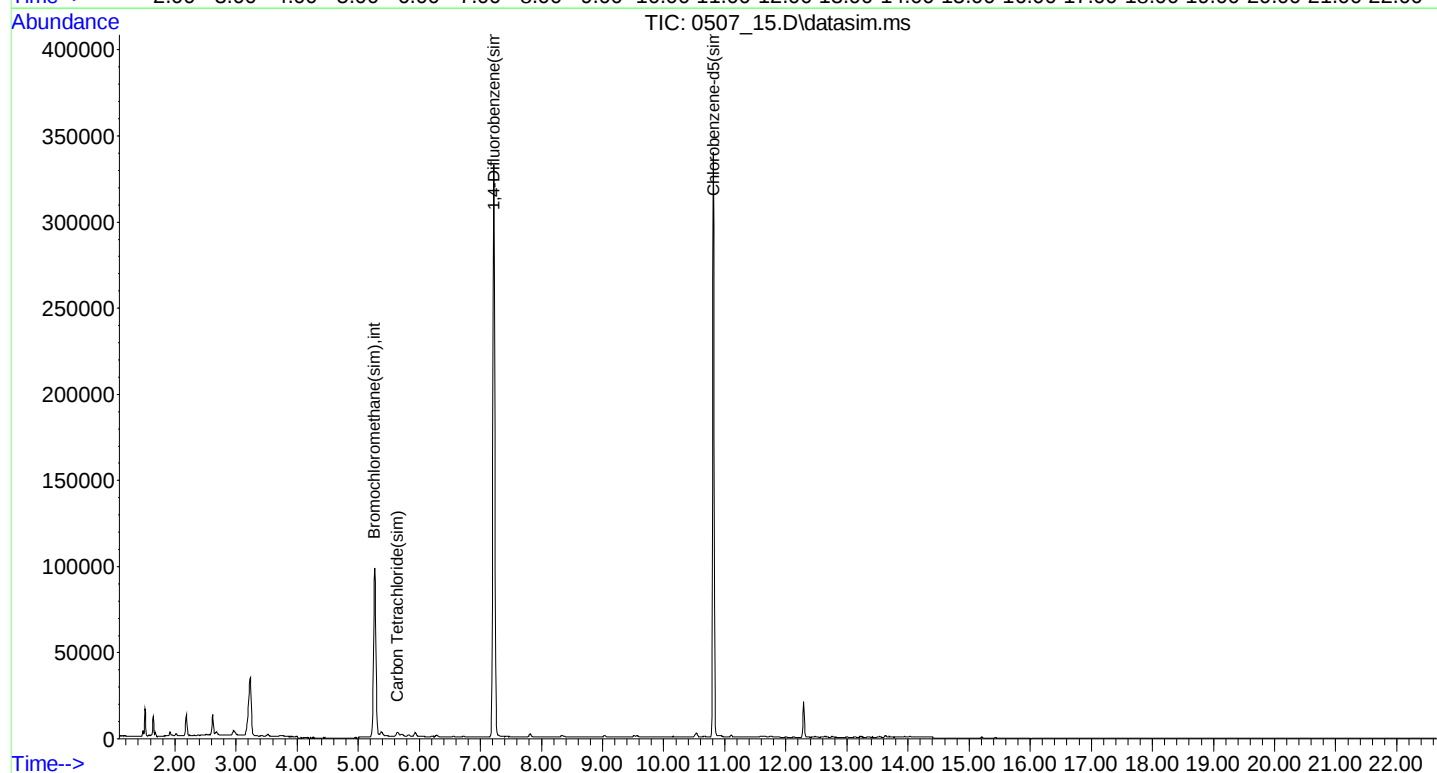
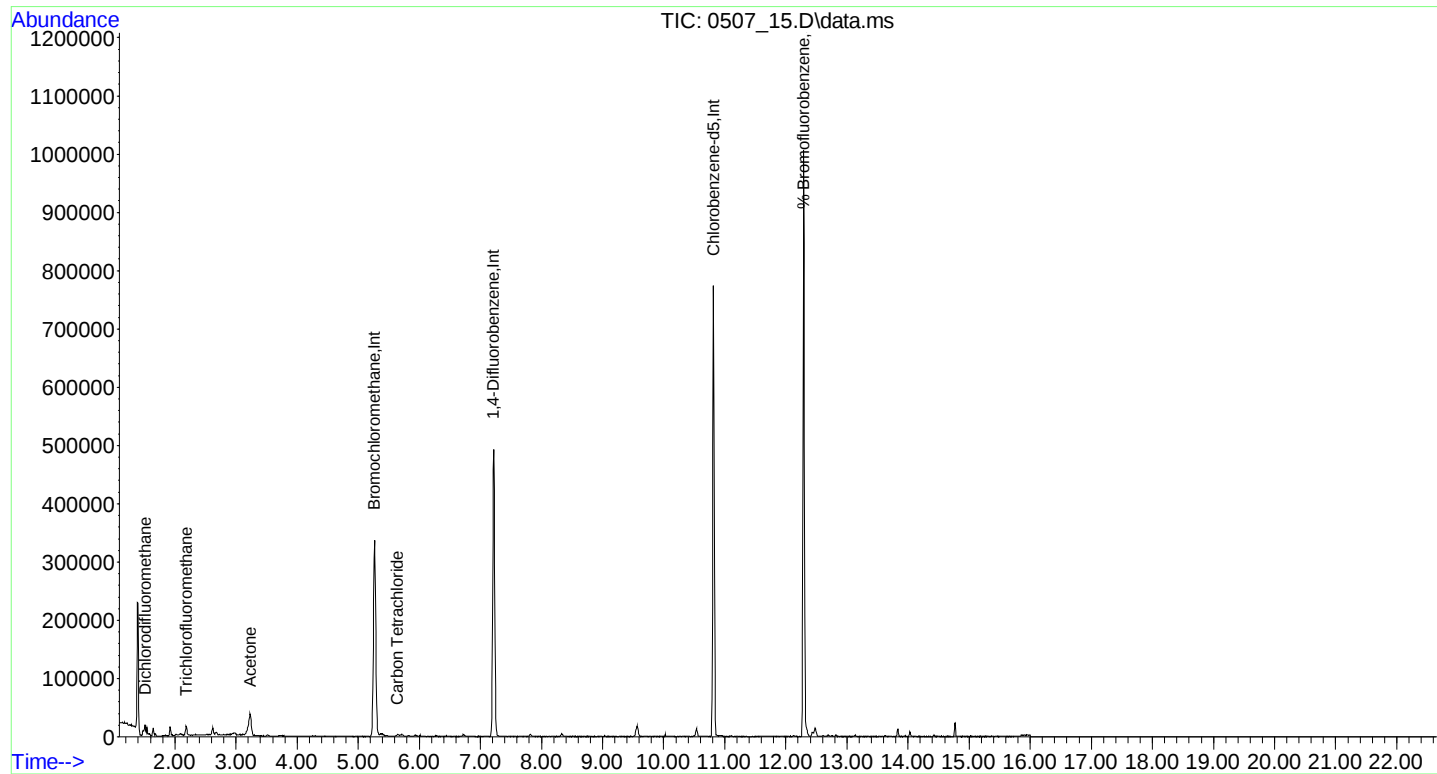
Quant Time: May 08 14:48:38 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

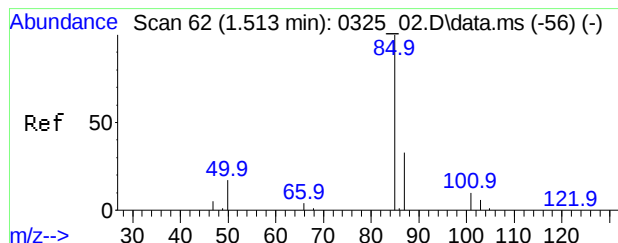
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.267	130	125837	10.000	ng	-0.03
36) 1,4-Difluorobenzene	7.220	114	406553	10.000	ng	-0.02
53) Chlorobenzene-d5	10.818	82	211565	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.270	130	133850	10.000	ng	#-0.02
95) 1,4-Difluorobenzene(sim)	7.220	114	406553	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.818	82	211565	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.292	95	296863	10.005	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.00%	
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.513	85	10429	0.374	ppbv	98
12) Acetone	3.238	43	48550	1.477	ppbv	99
13) Trichlorofluoromethane	2.184	101	10135	0.308	ppbv	96
34) Carbon Tetrachloride	5.642	117	2781	0.089	ppbv	94
87] Carbon Tetrachloride(sim)	5.642	117	2537	0.076	ppbv	99

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_15.D
Acq On : 7 May 2021 11:12 pm
Operator : Keith
Client ID : MAAA-01
Lab ID : CI26504
ALS Vial : 14 Sample Multiplier: 1

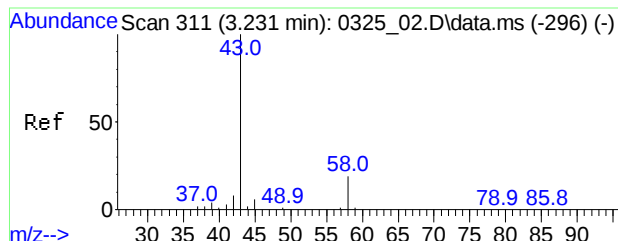
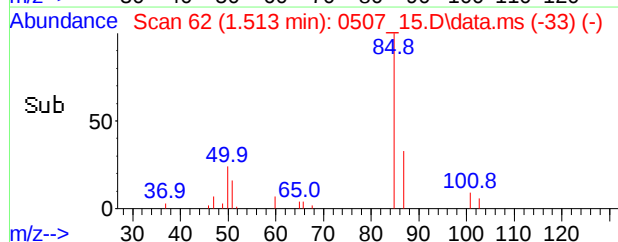
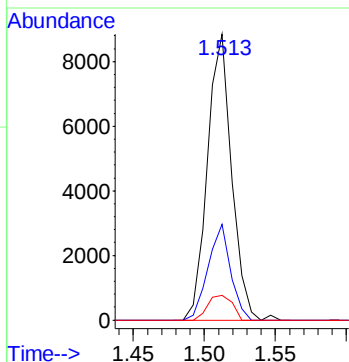
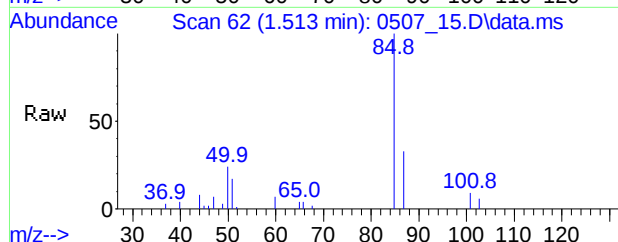
Quant Time: May 08 14:48:38 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





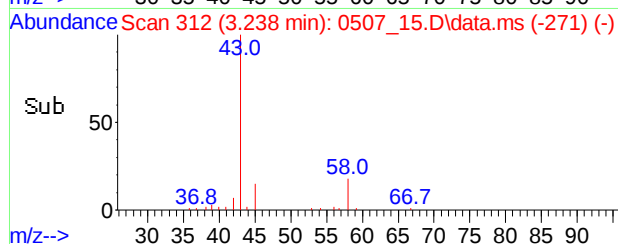
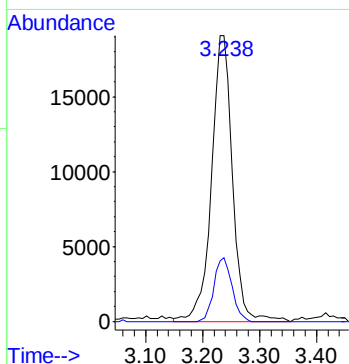
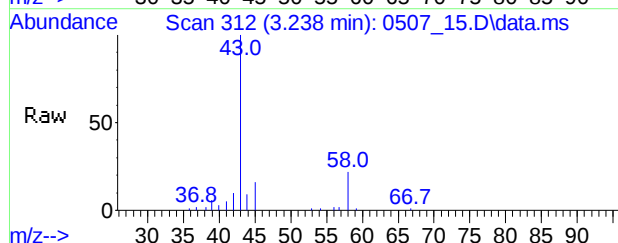
#3
Dichlorodifluoromethane
Conc: 8\$ 0.374 ppbv
RT: 1.513 min Scan# 62
Delta R.T. -0.000 min
Lab File: 0507_15.D
Acq: 7 May 2021 11:12 pm

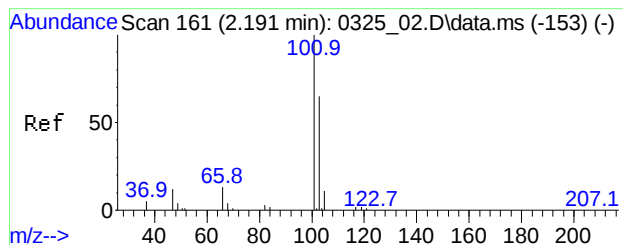
Tgt Ion: 85 Resp: 10429
Ion Ratio Lower Upper
85 100
87 31.0 25.8 38.8
101 8.8 7.3 10.9



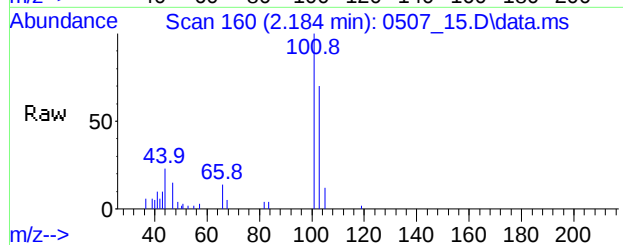
#12
Acetone
Conc: 8\$ 1.477 ppbv
RT: 3.238 min Scan# 312
Delta R.T. -0.020 min
Lab File: 0507_15.D
Acq: 7 May 2021 11:12 pm

Tgt Ion: 43 Resp: 48550
Ion Ratio Lower Upper
43 100
58 19.0 15.0 22.4

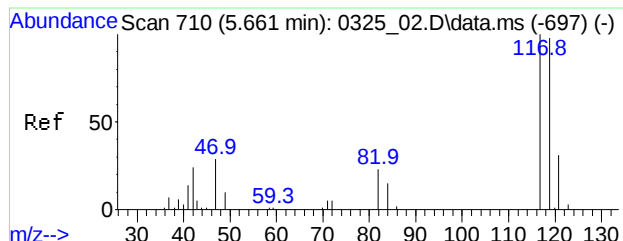
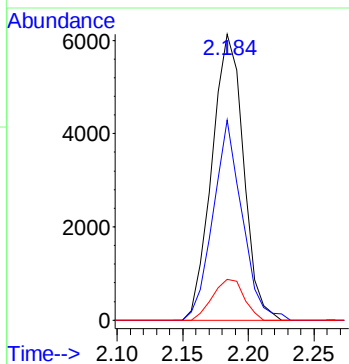
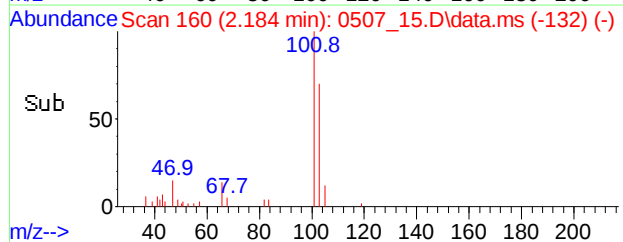




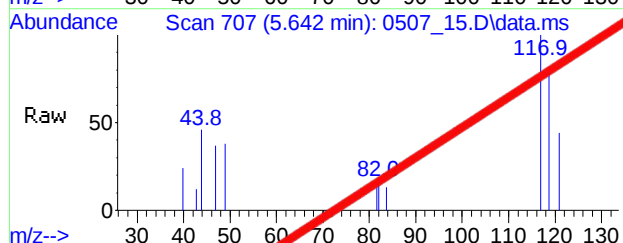
#13
Trichlorofluoromethane
Conc: 8\$ 0.308 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_15.D
Acq: 7 May 2021 11:12 pm



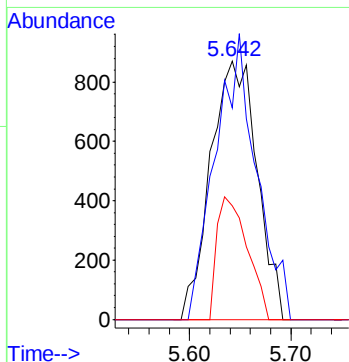
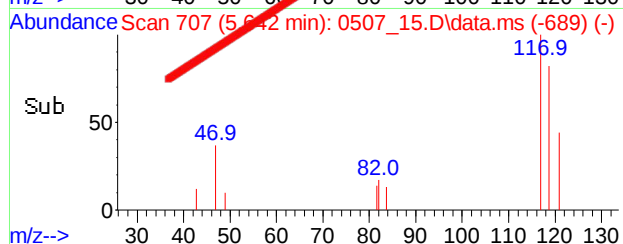
Tgt Ion: 101 Resp: 10135
Ion Ratio Lower Upper
101 100
103 64.4 54.6 82.0
66 14.1 12.2 18.4



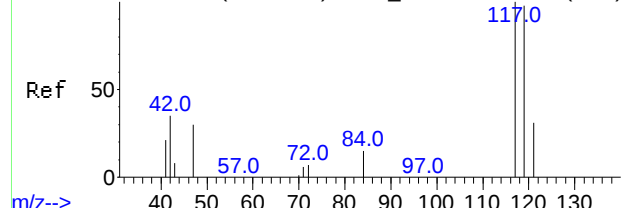
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.642 min Scan# 707
Delta R.T. -0.019 min
Lab File: 0507_15.D
Acq: 7 May 2021 11:12 pm



Tgt Ion: 117 Resp: 2781
Ion Ratio Lower Upper
117 100
119 97.3 85.1 125.1
121 31.1 11.0 51.0

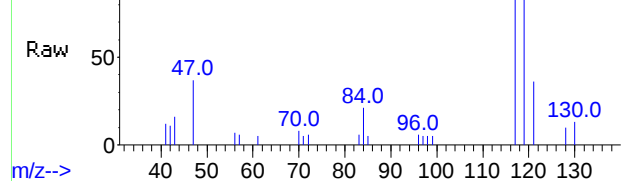


Abundance Scan 717 (5.664 min): 0325_02.D\data.ms (-704)



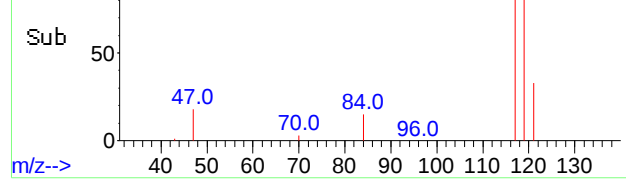
m/z-->

Abundance Scan 714 (5.645 min): 0507_15.D\data.ms



m/z-->

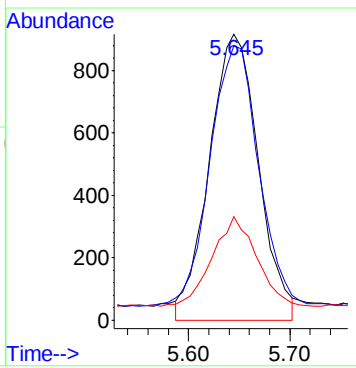
Abundance Scan 714 (5.645 min): 0507_15.D\data.ms (-689)



m/z-->

#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.076 ppbv
RT: 5.642 min Scan# 714
Delta R.T. -0.019 min
Lab File: 0507_15.D
Acq: 7 May 2021 11:12 pm

Tgt Ion	Ratio	Lower	Upper
117	100		
119	106.7	84.7	127.1
121	26.6	21.1	31.7



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCI26499	Lab Sample ID:	CI26505
Canister:	28548	Lab File ID:	0507_16.D
Instrument:	CHEM24	Column:	RTX-VMS
Purge Volume	200 (cc)	Date Received:	05/07/21
		Date Analyzed:	05/07/21
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_16.D
 Acq On : 7 May 2021 11:55 pm
 Operator : Keith
 Client ID : MWFB
 Lab ID : CI26505
 ALS Vial : 15 Sample Multiplier: 1

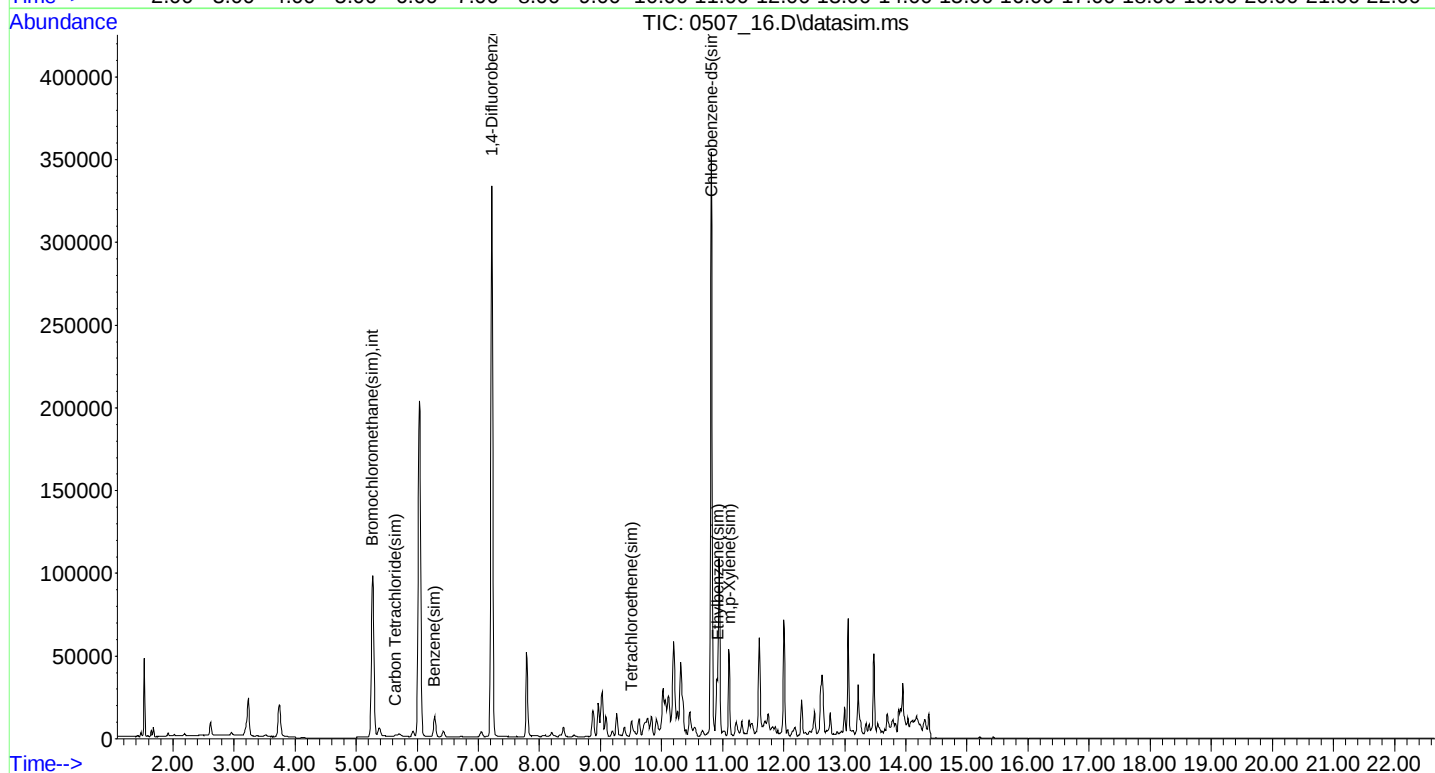
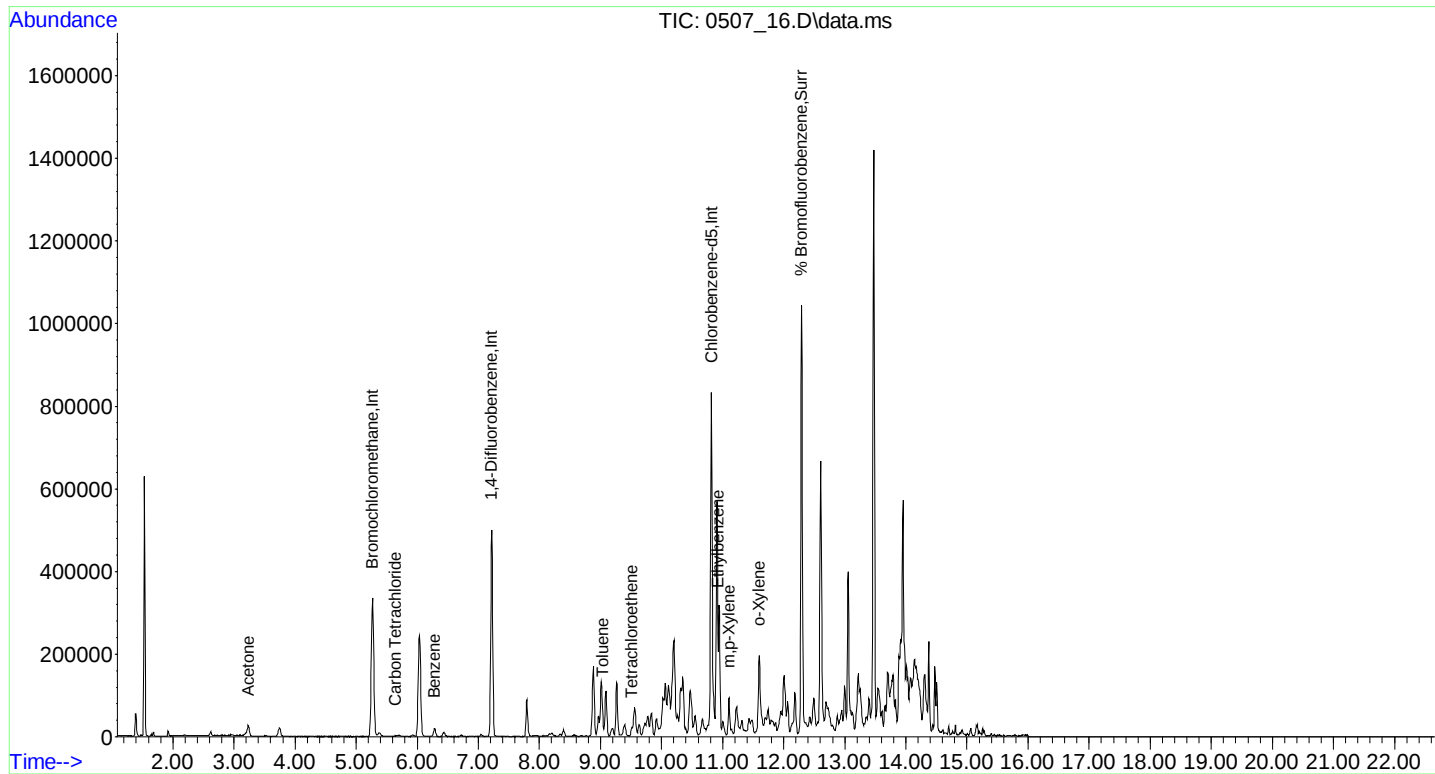
Quant Time: May 08 14:49:18 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

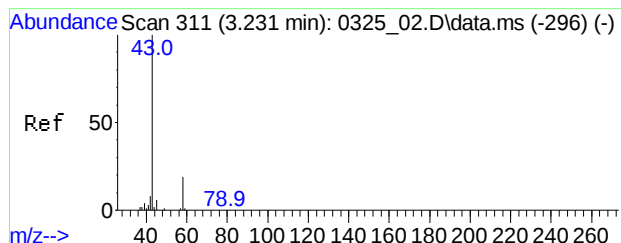
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.267	130	125637	10.000	ng	-0.03
36) 1,4-Difluorobenzene	7.220	114	404264	10.000	ng	-0.02
53) Chlorobenzene-d5	10.818	82	219331	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.270	130	133317	10.000	ng	#-0.02
95) 1,4-Difluorobenzene(sim)	7.220	114	404264	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.818	82	219331	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.292	95	310263	10.086	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.90%
Target Compounds						
					Qvalue	
12) Acetone	3.231	43	33491	1.020	ppbv	96
33) Benzene	6.288	78	15918	0.533	ppbv	99
34) Carbon Tetrachloride	5.642	117	811	0.026	ppbv#	83
48) Toluene	9.034	91	22040	0.589	ppbv#	93
52) Tetrachloroethene	9.510	166	2822	0.122	ppbv	93
56) Ethylbenzene	10.921	91	10328	0.190	ppbv	87
57) m, p-Xylene	11.106	91	40041	0.965	ppbv	99
61) o-Xylene	11.600	91	26371	0.587	ppbv	98
86] Benzene(sim)	6.284	78	17180	0.468	ppbv	96
87] Carbon Tetrachloride(sim)	5.642	117	729	0.022	ppbv#	86
104] Tetrachloroethene(sim)	9.513	166	3085	0.124	ppbv	99
108] Ethylbenzene(sim)	10.924	91	11036	0.173	ppb #	97
109] m, p-Xylene(sim)	11.106	91	40041	0.931	ppbv	99

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_16.D
Acq On : 7 May 2021 11:55 pm
Operator : Keith
Client ID : MWFB
Lab ID : CI26505
ALS Vial : 15 Sample Multiplier: 1

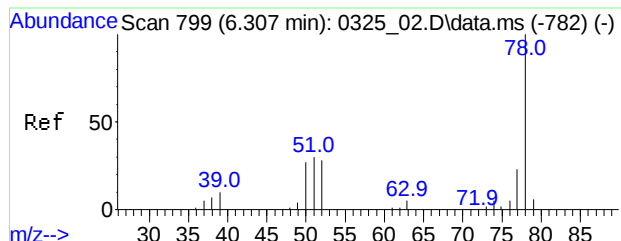
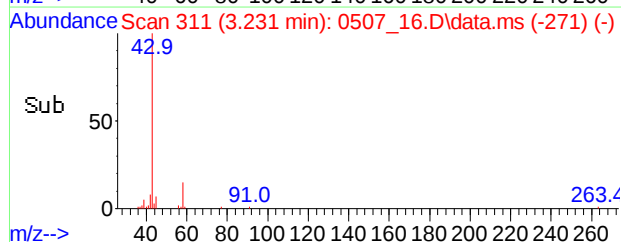
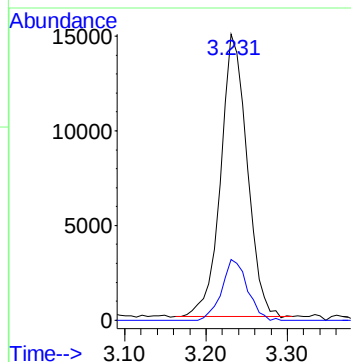
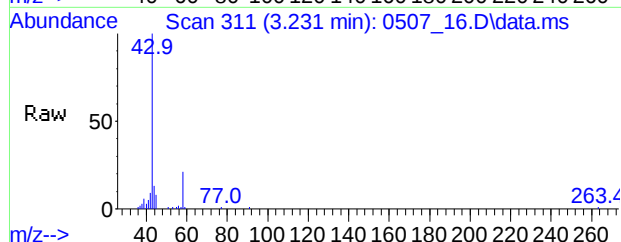
Quant Time: May 08 14:49:18 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





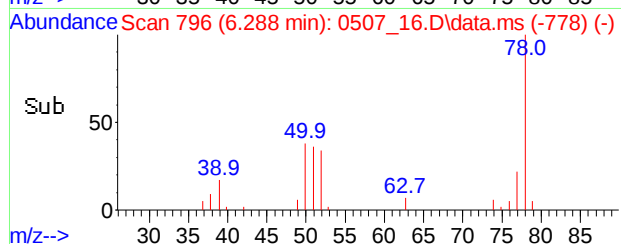
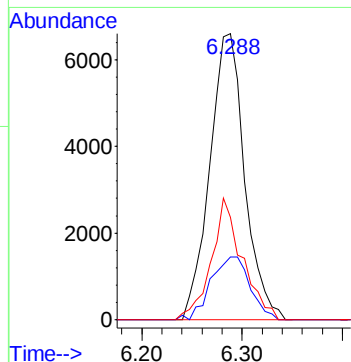
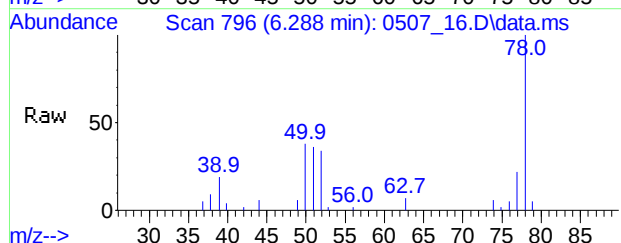
#12
Acetone
Conc: 8% 1.020 ppbv
RT: 3.231 min Scan# 311
Delta R.T. -0.027 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

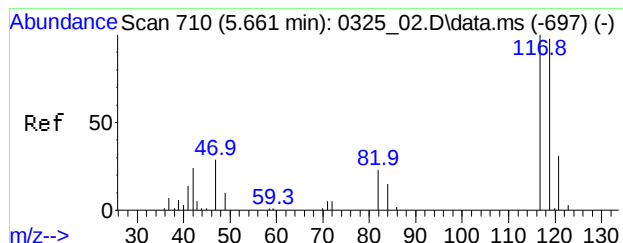
Tgt Ion: 43 Resp: 33491
Ion Ratio Lower Upper
43 100
58 20.7 15.0 22.4



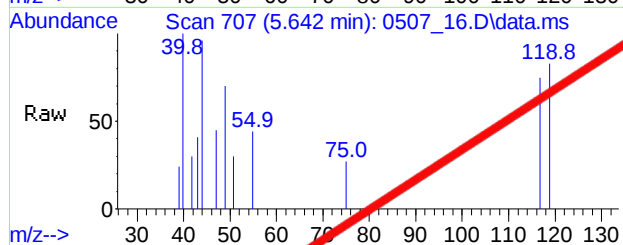
#33
Benzene
Conc: 8% 0.533 ppbv
RT: 6.288 min Scan# 796
Delta R.T. -0.026 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

Tgt Ion: 78 Resp: 15918
Ion Ratio Lower Upper
78 100
77 24.6 19.1 28.7
51 37.6 30.3 45.5

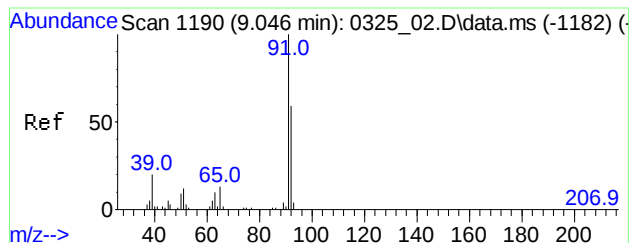
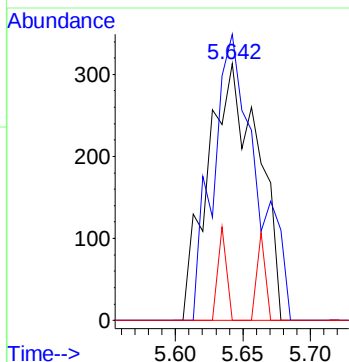
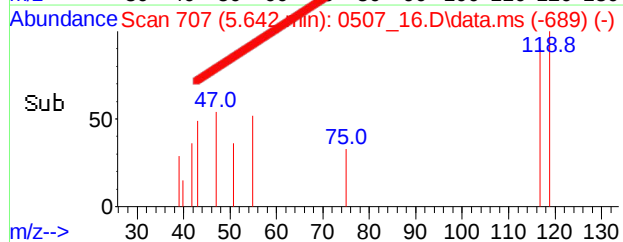




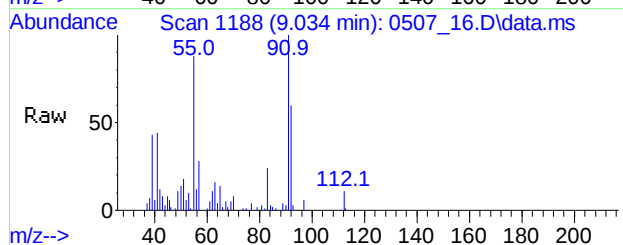
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.642 min Scan# 707
Delta R.T. -0.019 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm



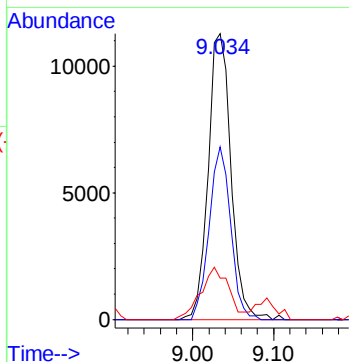
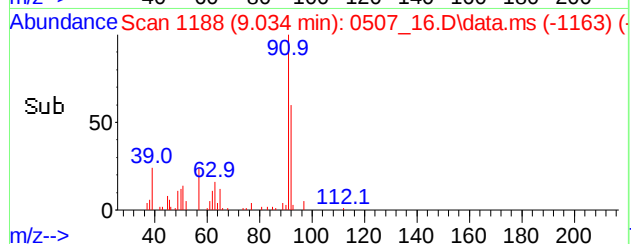
Tgt Ion: 117 Resp: 811
Ion Ratio Lower Upper
117 100
119 96.1 85.1 125.1
121 6.0 11.0 51.0#

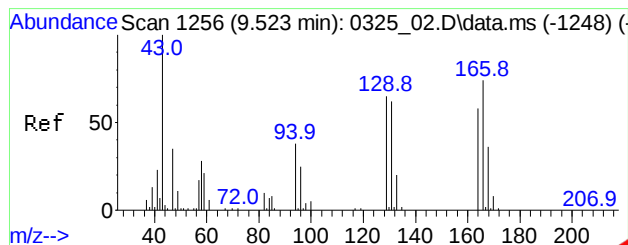


#48
Toluene
Conc: 8\$ 0.589 ppbv
RT: 9.034 min Scan# 1188
Delta R.T. -0.019 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm



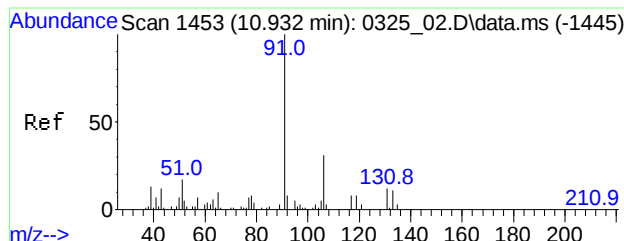
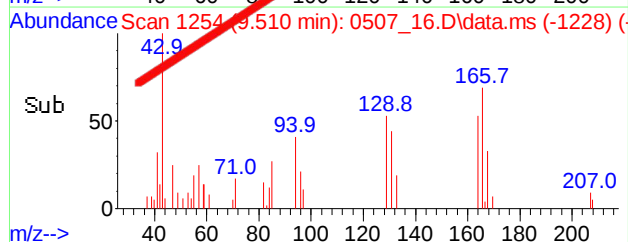
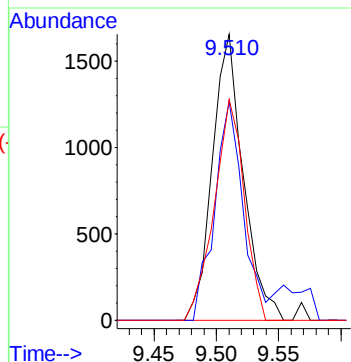
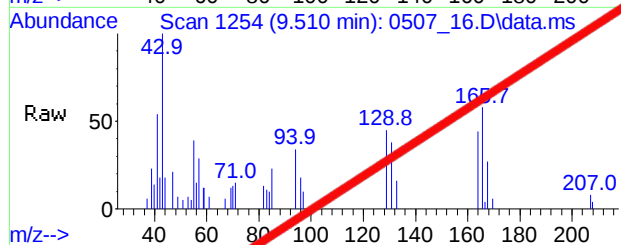
Tgt Ion: 91 Resp: 22040
Ion Ratio Lower Upper
91 100
92 56.8 47.4 71.2
65 22.9 10.2 15.4#





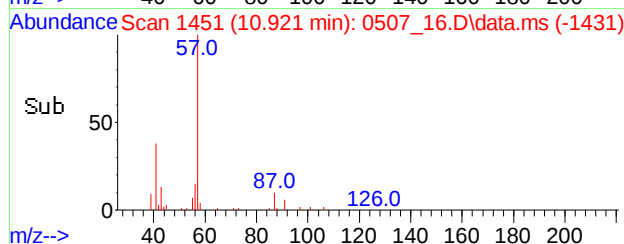
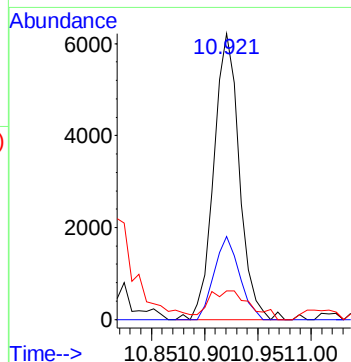
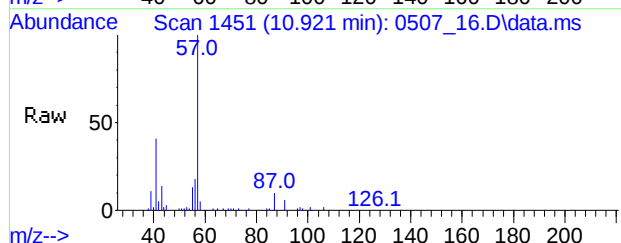
#52
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 9.510 min Scan# 1254
Delta R.T. -0.013 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

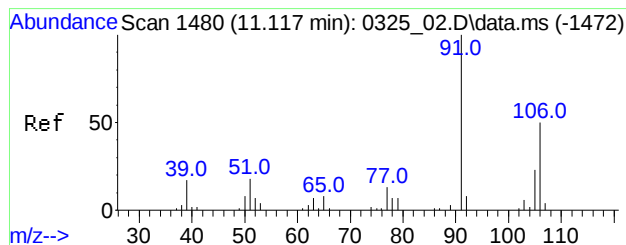
Tgt Ion: 166 Resp: 2822
Ion Ratio Lower Upper
166 100
164 70.9 63.2 94.8
129 74.9 56.9 85.3



#56
Ethylbenzene
Conc: 8\$ 0.190 ppbv
RT: 10.921 min Scan# 1451
Delta R.T. -0.011 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

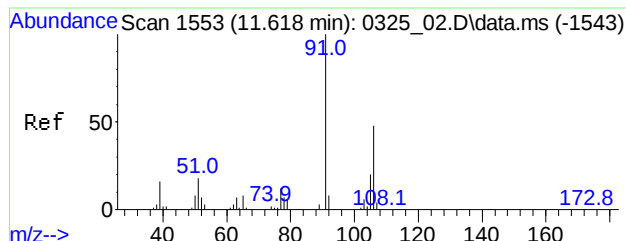
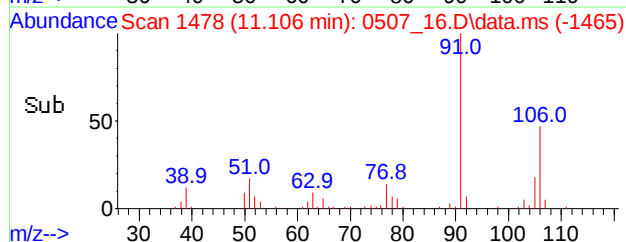
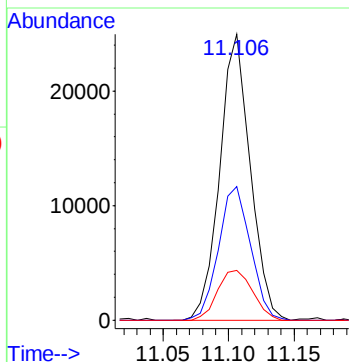
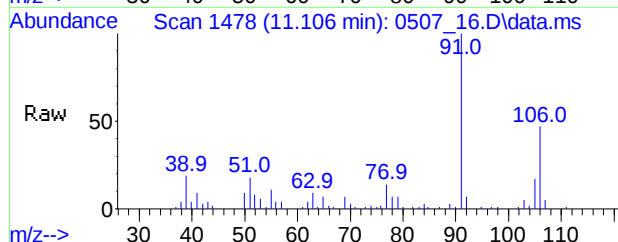
Tgt Ion: 91 Resp: 10328
Ion Ratio Lower Upper
91 100
106 28.6 17.7 57.7
77 15.9 0.0 32.7





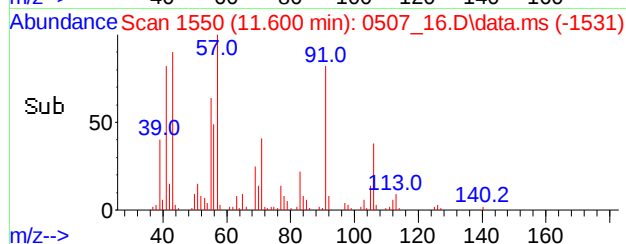
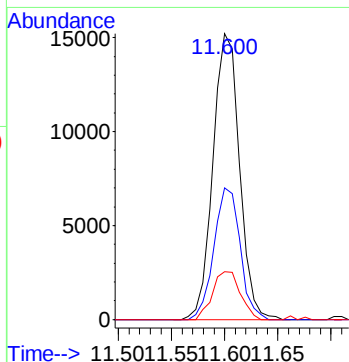
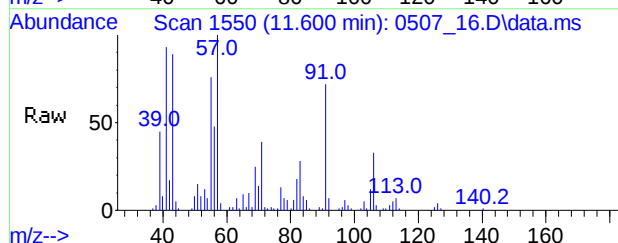
#57
m,p-Xylene
Conc: 8\$ 0.965 ppbv
RT: 11.106 min Scan# 1478
Delta R.T. -0.011 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

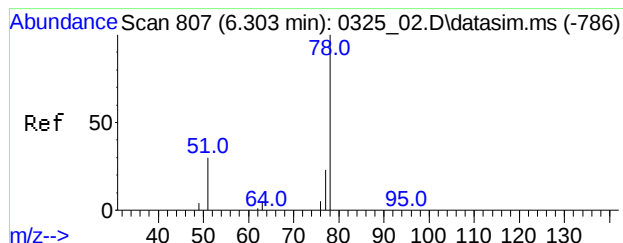
Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.0	39.4	59.2
105	20.1	16.8	25.2



#61
o-Xylene
Conc: 8\$ 0.587 ppbv
RT: 11.600 min Scan# 1550
Delta R.T. -0.018 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

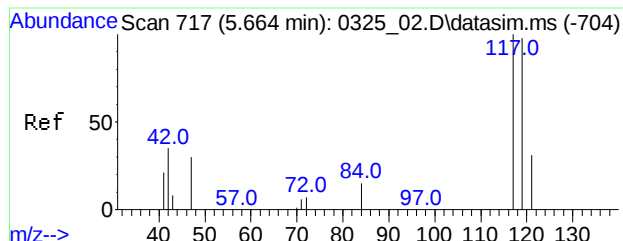
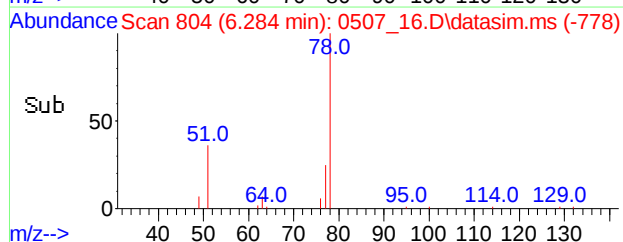
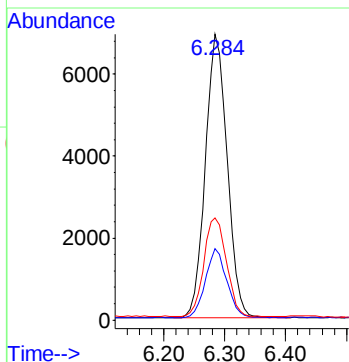
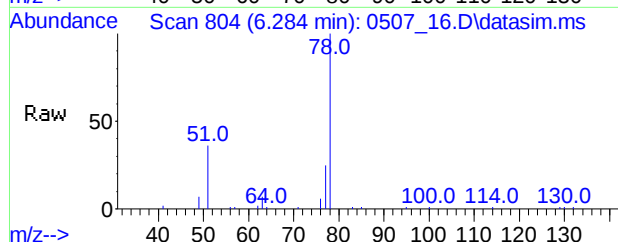
Tgt Ion	Ratio	Lower	Upper
91	100		
106	45.5	37.5	56.3
105	17.5	13.5	20.3





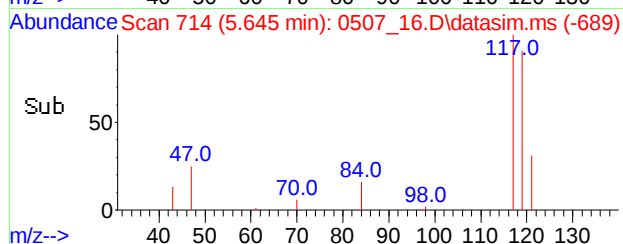
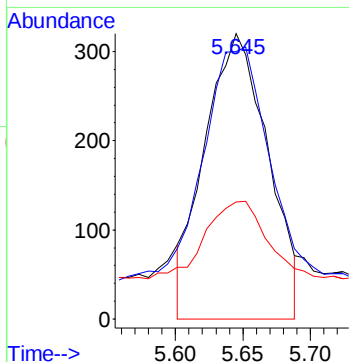
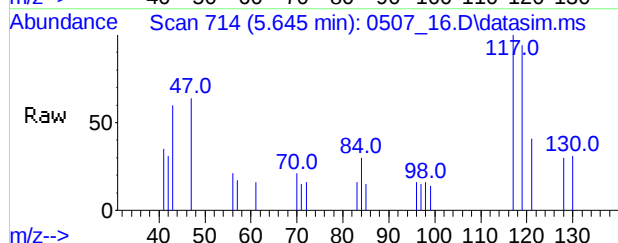
#86
Benzene(sim)
Conc: 8\$ 0.468 ppbv
RT: 6.284 min Scan# 804
Delta R.T. -0.019 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

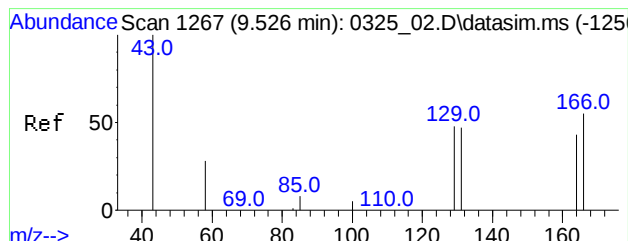
Tgt Ion: 78 Resp: 17180
Ion Ratio Lower Upper
78 100
77 23.6 18.6 28.0
51 35.7 25.4 38.2



#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.022 ppbv
RT: 5.642 min Scan# 714
Delta R.T. -0.019 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

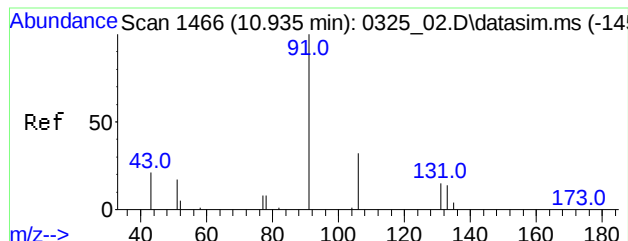
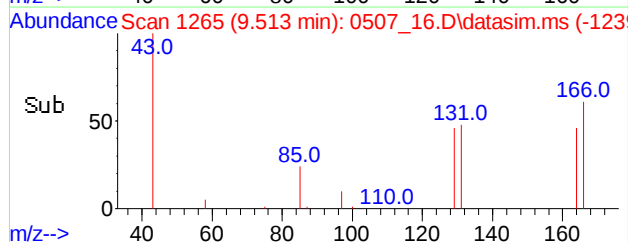
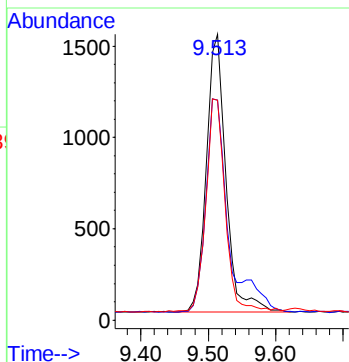
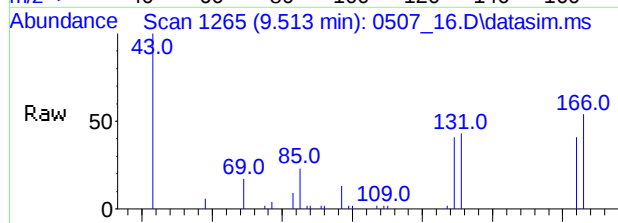
Tgt Ion: 117 Resp: 729
Ion Ratio Lower Upper
117 100
119 98.2 84.7 127.1
121 6.7 21.1 31.7#





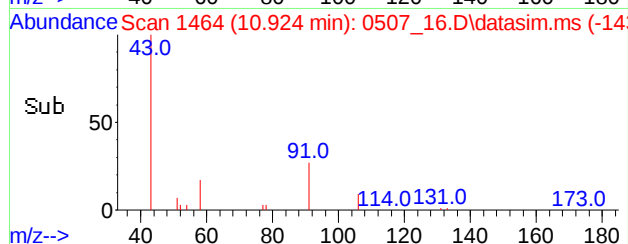
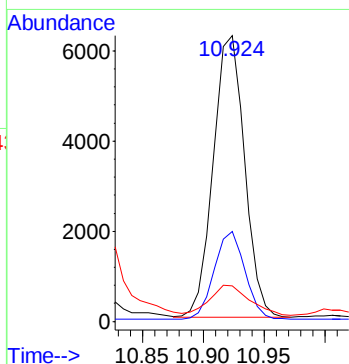
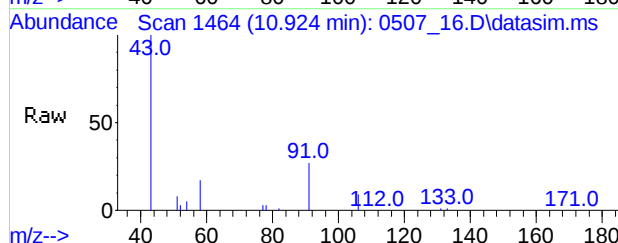
#104
Tetrachloroethene(sim)
Conc: 8\$ 0.124 ppbv
RT: 9.513 min Scan# 1265
Delta R.T. -0.013 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

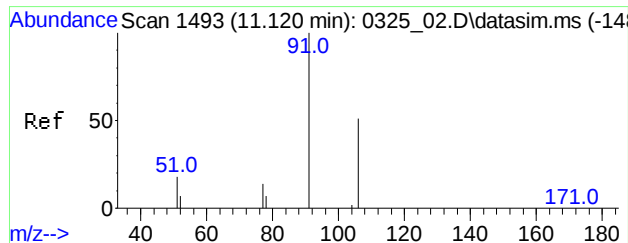
Tgt Ion: 166 Resp: 3085
Ion Ratio Lower Upper
166 100
164 77.9 58.0 98.0
129 75.9 54.2 94.2



#108
Ethylbenzene(sim)
Conc: 8\$ 0.173 ppb
RT: 10.924 min Scan# 1464
Delta R.T. -0.011 min
Lab File: 0507_16.D
Acq: 7 May 2021 11:55 pm

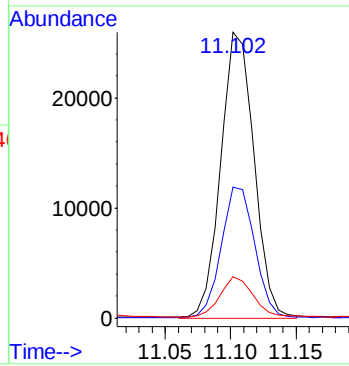
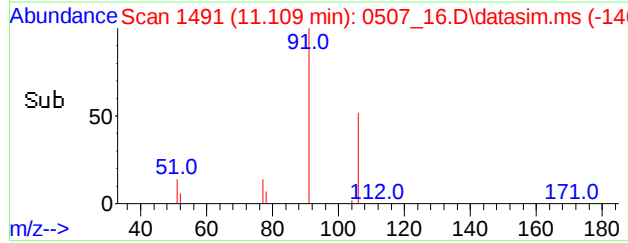
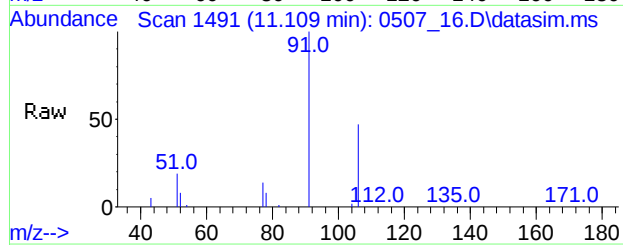
Tgt Ion: 91 Resp: 11036
Ion Ratio Lower Upper
91 100
106 30.7 24.8 37.2
77 13.7 7.5 11.3#





#109
 m,p-Xylene(sim)
 Conc: 8\$ 0.931 ppbv
 RT: 11.106 min Scan# 1491
 Delta R.T. -0.011 min
 Lab File: 0507_16.D
 Acq: 7 May 2021 11:55 pm

Tgt Ion	Ratio	Lower	Upper
91	100		
106	49.0	44.4	54.2
77	15.1	11.7	17.5



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCI26499	Lab Sample ID:	CI26506
Canister:	13634	Lab File ID:	0507_17.D
Instrument:	CHEM24	Column:	RTX-VMS
		Date Received:	05/07/21
Purge Volume	200 (cc)	Date Analyzed:	05/08/21
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_17.D
 Acq On : 8 May 2021 12:37 am
 Operator : Keith
 Client ID : MWDUP
 Lab ID : CI26506
 ALS Vial : 16 Sample Multiplier: 1

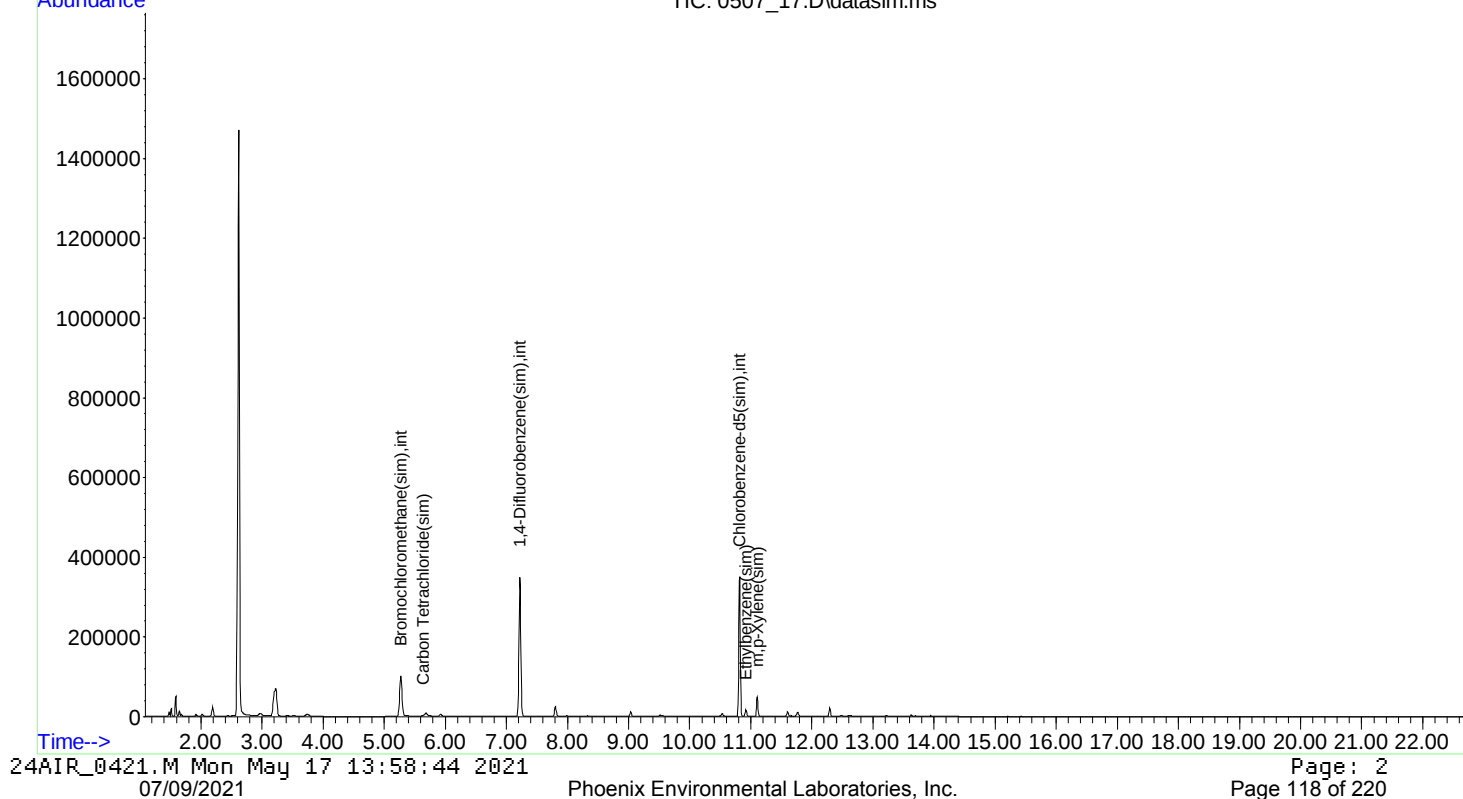
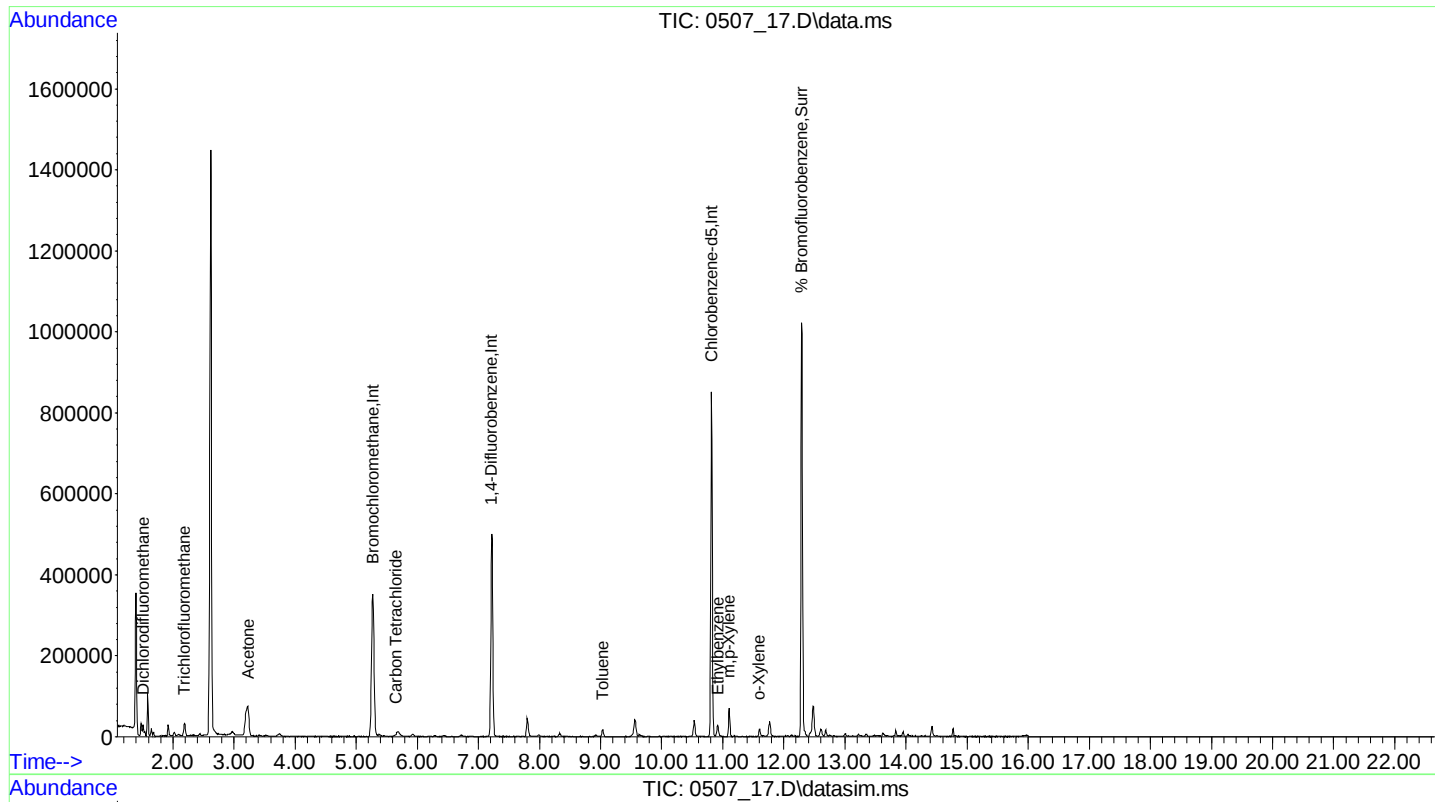
Quant Time: May 08 14:49:36 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

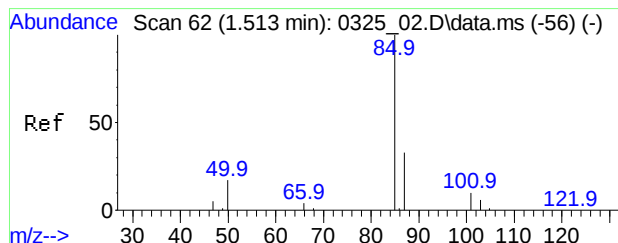
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	132968	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.218	114	419876	10.000	ng	-0.02
53) Chlorobenzene-d5	10.815	82	222009	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.275	130	140594	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.218	114	419876	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.815	82	222009	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	311262	9.997	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.00%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.513	85	12961	0.439	ppbv	98
12) Acetone	3.231	43	96663	2.783	ppbv	98
13) Trichlorofluoromethane	2.184	101	13259	0.381	ppbv	98
33) Benzene	6.293	78	1546	0.049	ppbv#	91
34) Carbon Tetrachloride	5.654	117	2819	0.085	ppbv	90
48) Toluene	9.039	91	11157	0.287	ppbv	99
56) Ethylbenzene	10.918	91	14176	0.258	ppbv	91
57) m, p-Xylene	11.104	91	36278	0.864	ppbv	97
61) o-Xylene	11.598	91	9275	0.204	ppbv	96
87] Carbon Tetrachloride(sim)	5.640	117	1306	0.037	ppbv#	1
108] Ethylbenzene(sim)	10.921	91	15620	0.242	ppb	99
109] m, p-Xylene(sim)	11.104	91	36278	0.834	ppbv	97

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_17.D
Acq On : 8 May 2021 12:37 am
Operator : Keith
Client ID : MWDUP
Lab ID : CI26506
ALS Vial : 16 Sample Multiplier: 1

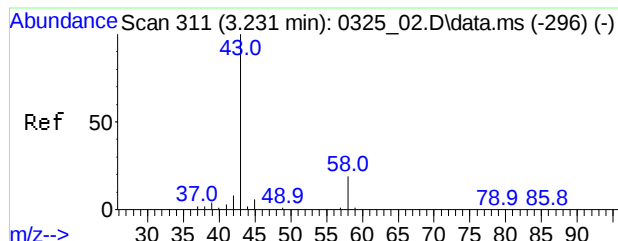
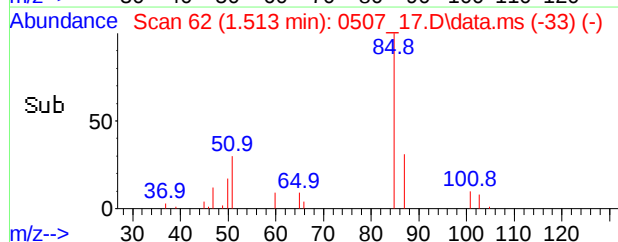
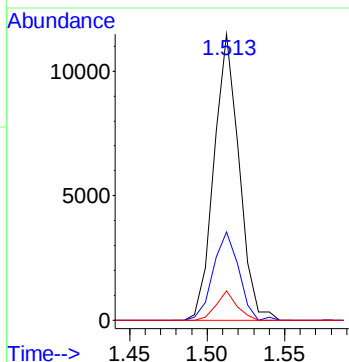
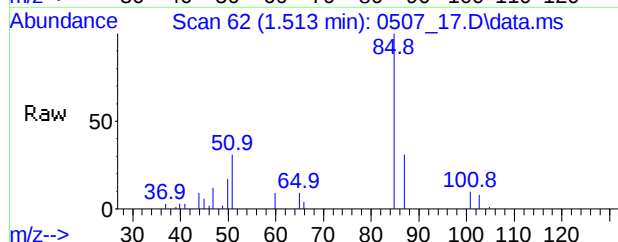
Quant Time: May 08 14:49:36 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





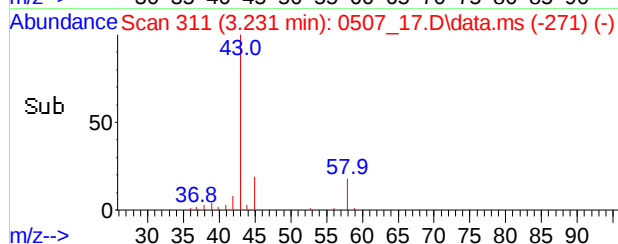
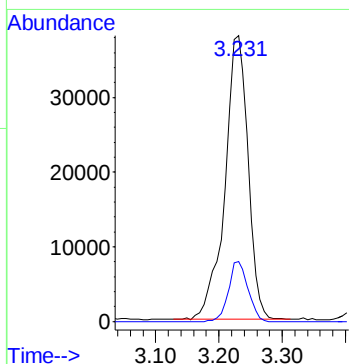
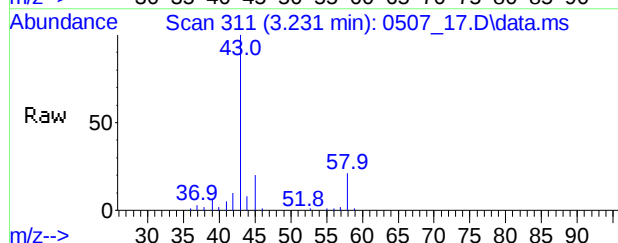
#3
Dichlorodifluoromethane
Conc: 8\$ 0.439 ppbv
RT: 1.513 min Scan# 62
Delta R.T. -0.000 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

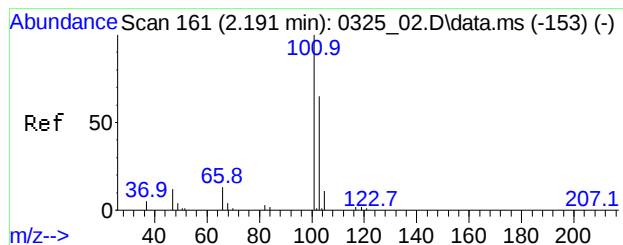
Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.5	25.8	38.8
101	8.4	7.3	10.9



#12
Acetone
Conc: 8\$ 2.783 ppbv
RT: 3.231 min Scan# 311
Delta R.T. -0.027 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

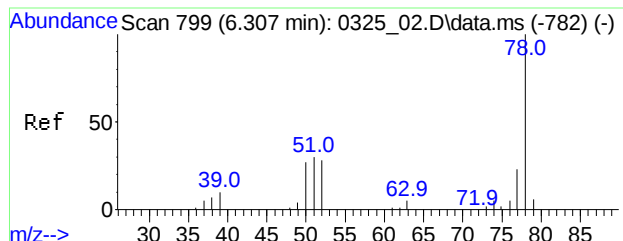
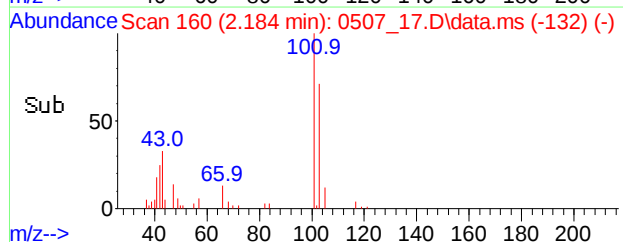
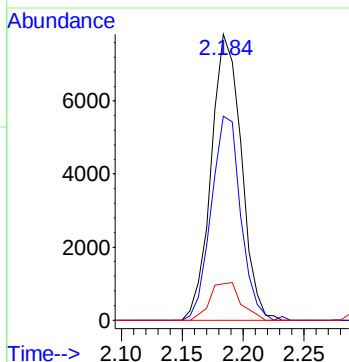
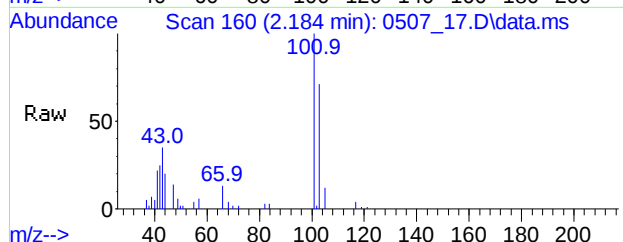
Tgt Ion	Ratio	Lower	Upper
43	100		
58	17.8	15.0	22.4





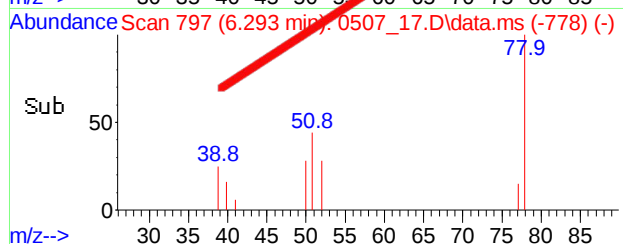
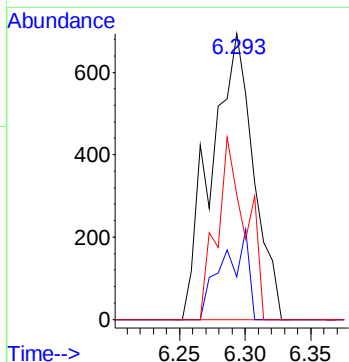
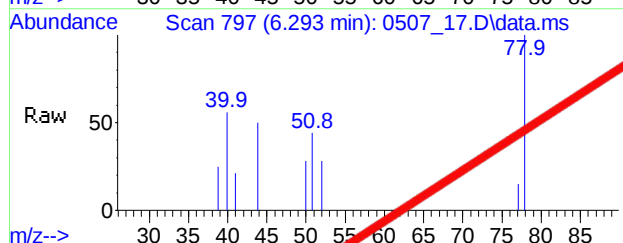
#13
Trichlorofluoromethane
Conc: 8\$ 0.381 ppbv
RT: 2.184 min Scan# 160
Delta R.T. -0.007 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

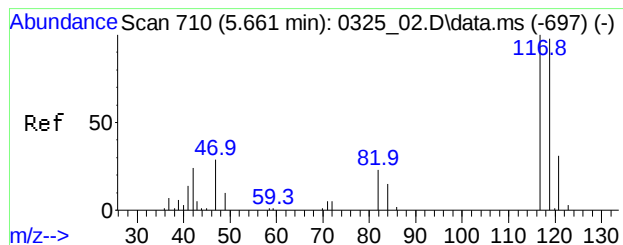
Tgt Ion	Ratio	Lower	Upper
101	100		
103	69.8	54.6	82.0
66	13.3	12.2	18.4



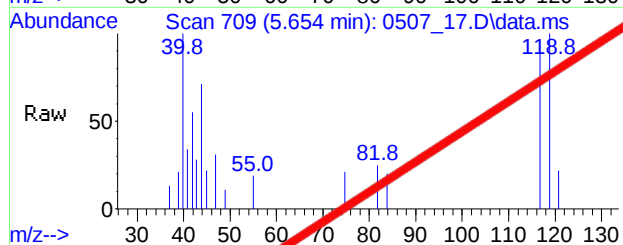
#33
Benzene
Conc: 8\$ Below Cal
RT: 6.293 min Scan# 797
Delta R.T. -0.021 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.8	19.1	28.7#
51	43.2	30.3	45.5

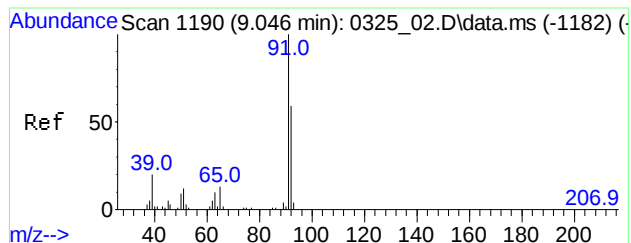
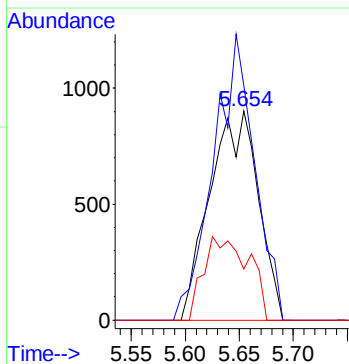
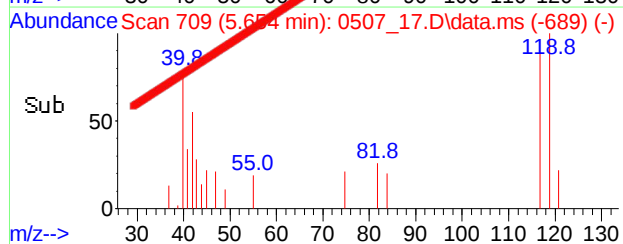




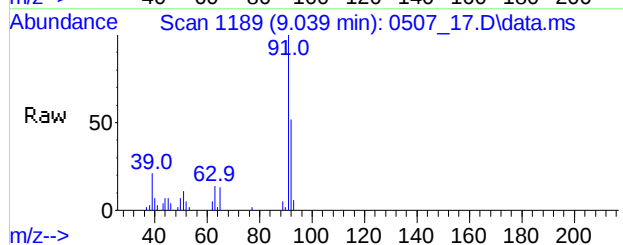
#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.654 min Scan# 709
Delta R.T. -0.007 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am



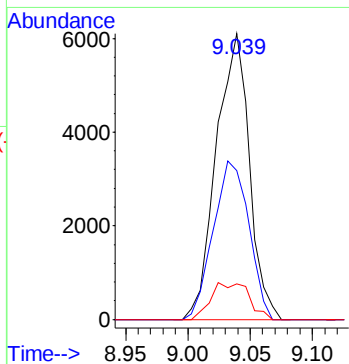
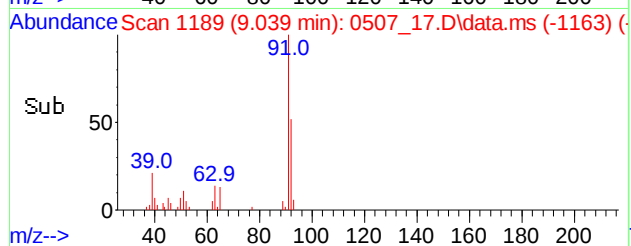
Tgt Ion: 117 Resp: 2819
Ion Ratio Lower Upper
117 100
119 115.6 85.1 125.1
121 37.0 11.0 51.0

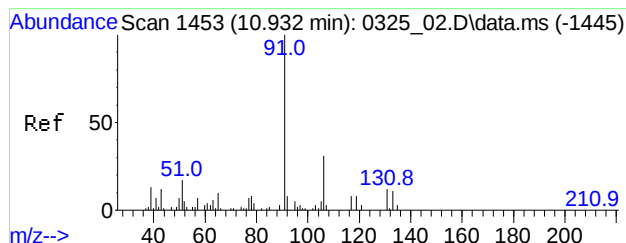


#48
Toluene
Conc: 8\$ 0.287 ppbv
RT: 9.039 min Scan# 1189
Delta R.T. -0.014 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am



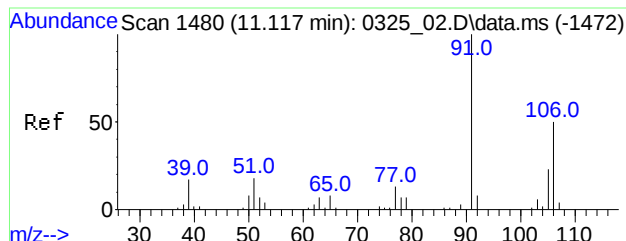
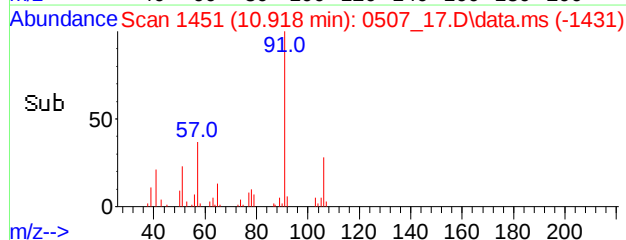
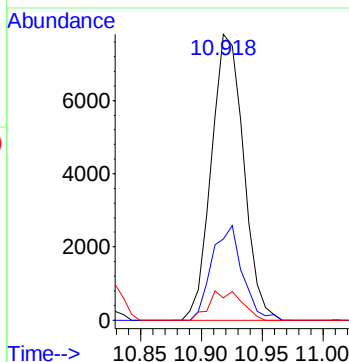
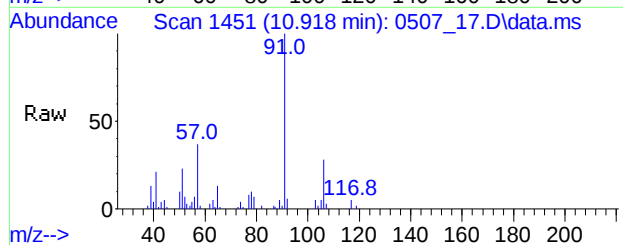
Tgt Ion: 91 Resp: 11157
Ion Ratio Lower Upper
91 100
92 59.6 47.4 71.2
65 14.8 10.2 15.4





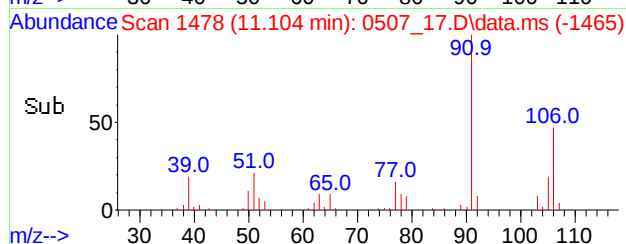
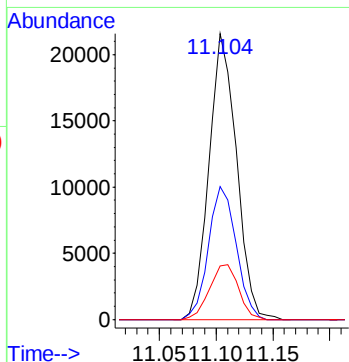
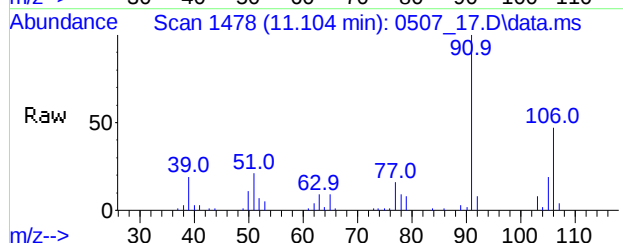
#56
Ethylbenzene
Conc: 8\$ 0.258 ppbv
RT: 10.918 min Scan# 1451
Delta R.T. -0.014 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

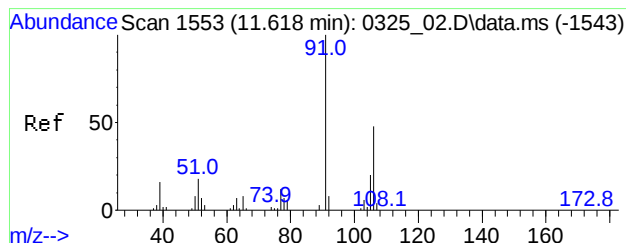
Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.3	17.7	57.7
77	10.4	0.0	32.7



#57
m,p-Xylene
Conc: 8\$ 0.864 ppbv
RT: 11.104 min Scan# 1478
Delta R.T. -0.013 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

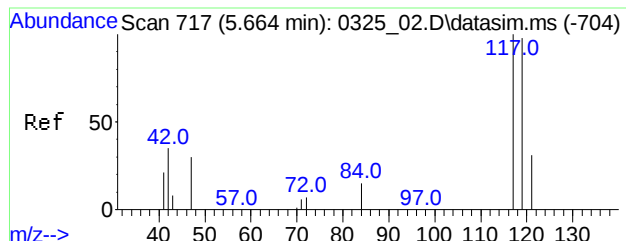
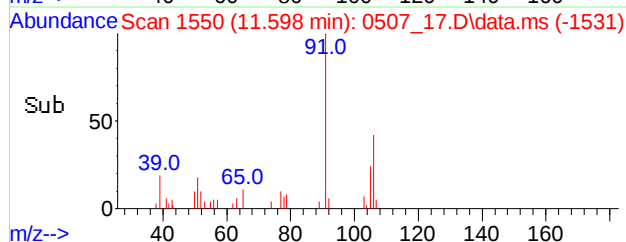
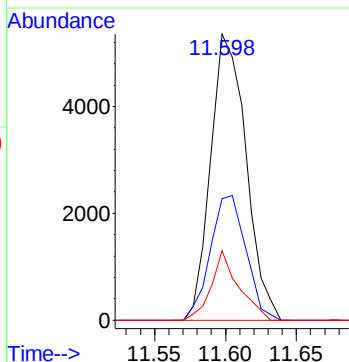
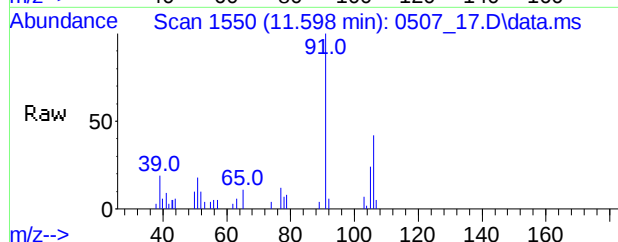
Tgt Ion	Ratio	Lower	Upper
91	100		
106	47.0	39.4	59.2
105	20.3	16.8	25.2





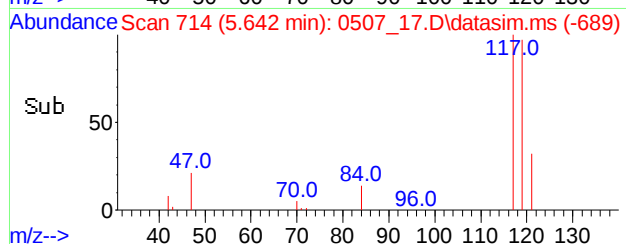
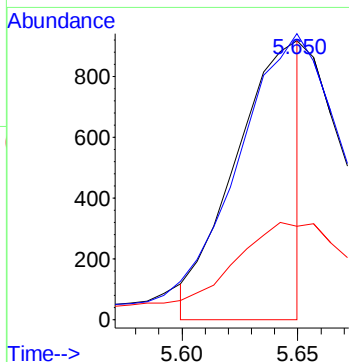
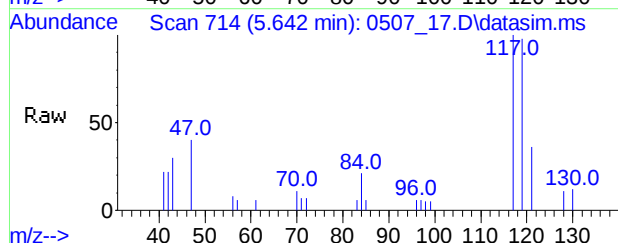
#61
o-Xylene
Conc: 8\$ 0.204 ppbv
RT: 11.598 min Scan# 1550
Delta R.T. -0.020 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

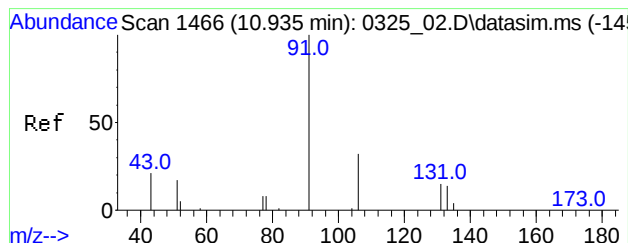
Tgt Ion: 91 Resp: 9275
Ion Ratio Lower Upper
91 100
106 43.8 37.5 56.3
105 18.7 13.5 20.3



#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.037 ppbv
RT: 5.640 min Scan# 714
Delta R.T. -0.021 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

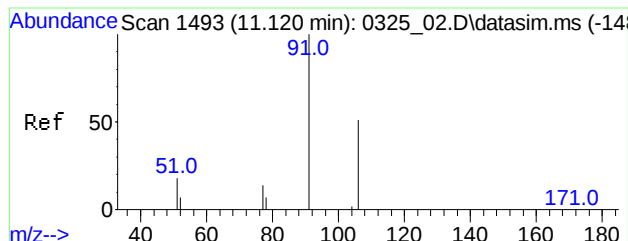
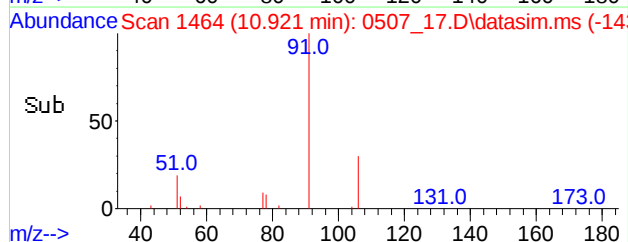
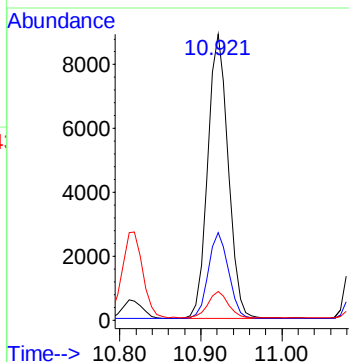
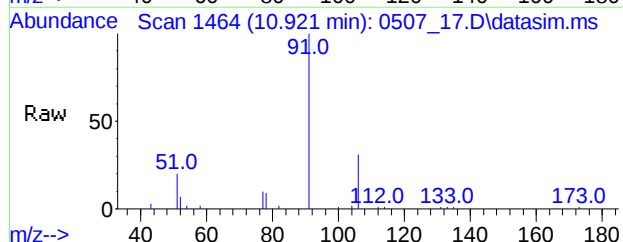
Tgt Ion: 117 Resp: 1306
Ion Ratio Lower Upper
117 100
119 249.5 84.7 127.1#
121 35.3 21.1 31.7#





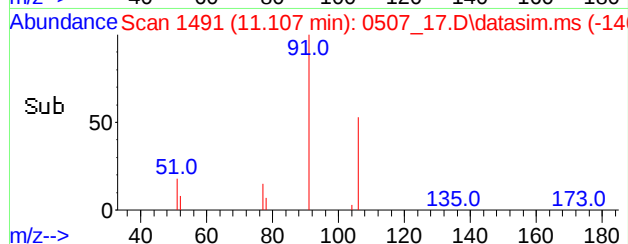
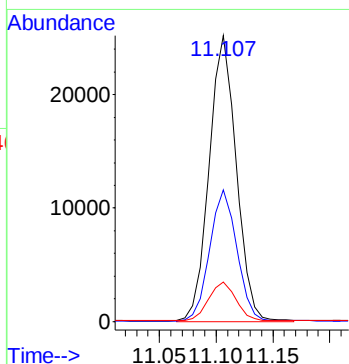
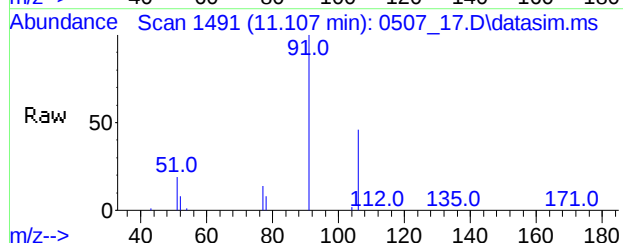
#108
Ethylbenzene(sim)
Conc: 8\$ 0.242 ppb
RT: 10.921 min Scan# 1464
Delta R.T. -0.014 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

Tgt Ion: 91 Resp: 15620
Ion Ratio Lower Upper
91 100
106 30.1 24.8 37.2
77 9.2 7.5 11.3



#109
m,p-Xylene(sim)
Conc: 8\$ 0.834 ppbv
RT: 11.104 min Scan# 1491
Delta R.T. -0.013 min
Lab File: 0507_17.D
Acq: 8 May 2021 12:37 am

Tgt Ion: 91 Resp: 36278
Ion Ratio Lower Upper
91 100
106 47.0 44.4 54.2
77 14.7 11.7 17.5



Response Factor Report Chem24

Method Path : H:\AIR2021\CHEM24\METHODS\
 Method File : 24AIR_0421.M
 Title : VOA Standards for 5 point calibration
 Last Update : Thu Apr 22 08:23:13 2021
 Response Via : Initial Calibration

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

.035=0421_04.D 0.05=0421_05.D 0.1 =0421_06.D 0.2 =0421_07.D 0.5 =0421_08.D 1.0 =0421_14.D 2.5 =0421_09.D 5.0 =0421_10.D
 10 =0421_15.D 25 =0421_11.D 40 =0421_12.D 0.02=0421_03.D

Compound	.035	0.05	0.1	0.2	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1) Int Bromochloromethane	-----ISTD-----													
3) Dichlorodifluo...			2.435	2.258	2.036	2.290	2.129	2.627	2.351	2.086	1.749		2.218	11.46
6) Vinyl Chloride			1.191	1.105	0.978	1.021	0.982	1.119	1.046	1.069	1.013		1.058	6.63
12) Acetone				2.841	2.621	2.506	2.565	2.664	2.563	2.657	2.481		2.612	4.35
13) Trichlorofluor...			2.753	2.559	2.557	2.520	2.545	2.789	2.594	2.710	2.527		2.617	3.99
16) 1,1-Dichloroet...			1.860	1.856	1.728	1.825	1.778	1.948	1.764	1.859	1.759		1.820	3.80
17) Methylene Chlo...				1.808	1.746	1.803	1.744	1.900	1.813	1.848	1.554		1.777	5.82
21) Trichlorotrifl...			1.994	1.759	1.793	1.733	1.760	1.910	1.797	1.874	1.768		1.821	4.76
26) Cis-1,2-Dichlo...			1.783	1.788	1.780	1.768	1.792	1.881	1.818	1.757	1.595		1.774	4.29
32) 1,1,1-Trichlor...			2.368	2.213	2.120	2.228	2.245	2.432	2.298	2.393	2.246		2.282	4.36
33) Benzene			2.350	2.324	2.298	2.394	2.289	2.494	2.401	2.483	2.380		2.379	3.09
34) Carbon Tetrach...			2.343	2.322	2.525	2.380	2.430	2.677	2.519	2.648	2.486		2.481	5.07
36) Int 1,4-Difluorobenzene	-----ISTD-----													
39) Trichloroethene			0.404	0.384	0.398	0.402	0.403	0.438	0.418	0.428	0.410		0.410	3.99
48) Toluene			0.918	0.898	0.920	0.899	0.900	0.963	0.948	0.969	0.919		0.926	2.96
52) Tetrachloroethene			0.553	0.570	0.573	0.565	0.564	0.605	0.586	0.594	0.558		0.574	3.03
53) Int Chlorobenzene-d5	-----ISTD-----													
55) Chlorobenzene			1.555	1.533	1.596	1.550	1.538	1.675	1.673	1.695	1.610		1.603	3.99
56) Ethylbenzene			2.445	2.274	2.529	2.435	2.375	2.601	2.571	2.615	2.424		2.474	4.59
57) m,p-Xylene			1.886	1.842	1.909	1.519	1.860	2.036	2.012	2.040	1.919		1.892	8.37
61) o-Xylene			2.050	2.016	2.031	1.998	1.931	2.127	2.087	2.134	2.056		2.048	3.11
62) Surr% Bromofluorob...			1.410	1.381	1.378	1.415	1.380	1.399	1.404	1.456	1.399		1.403	1.73
71) 1,3-Dichlorobe...			1.491	1.238	1.397	1.491	1.459	1.595	1.562	1.619	1.512		1.485	7.77
72) 1,4-Dichlorobe...			1.552	1.242	1.353	1.436	1.376	1.508	1.506	1.586	1.500		1.451	7.56
75) 1,2-Dichlorobe...			1.256	0.943	1.049	1.138	1.115	1.185	1.210	1.298	1.231		1.158	9.58
77) qfi 1,2,4-Trichlor...				0.070	0.272	1.206	1.937	4.388	8.175	28.82	38.38		Coef R2	0.980
80) int Bromochloromethane...	-----ISTD-----													
82) Vinyl Chloride...			1.389	1.318	1.140	1.046	1.047	1.087	1.052	1.172			1.156	11.35
86) Benzene(sim)			2.989	2.935	2.582	2.473	2.476	2.489	2.460				3.642	2.756
87) Carbon Tetrach...			2.546	2.885	2.225	2.236	2.444	2.294	2.345	2.594			2.911	2.498
88) 1,1-Dichloroet...			2.185	2.281	1.915	1.857	1.831	1.861	1.846	2.014			2.622	2.046
92) Cis-1,2-Dichlo...			1.848	1.976	1.753	1.785	1.904	1.846	1.791	2.067			2.362	1.926
95) int 1,4-Difluorobenzen...	-----ISTD-----													
98) Trichloroethen...			0.436	0.462	0.422	0.417	0.427	0.422	0.426	0.460			0.579	0.450
104) Tetrachloroeth...			0.566	0.625	0.581	0.579	0.589	0.578	0.587	0.628	0.605		0.809	0.615
105) int Chlorobenzene-d5(sim)	-----ISTD-----													
108) Ethylbenzene(sim)			2.848	2.833	2.711	2.604	2.680	2.665	2.618				4.318	2.910

Response Factor Report Chem24

Method Path : H:\AIR2021\CHEM24\METHODS\

Method File : 24AIR_0421.M

Title : VOA Standards for 5 point calibration

109)	m,p-Xylene(sim)	2.203	2.042	1.886	1.842	1.910	1.900	1.862	2.036		1.960	6.29
116)	1,4-Dichlorobe...	1.808	1.806	1.606	1.348	1.474	1.591	1.539	1.701	2.399	1.697	17.84
121)	qfi 1,2,4-Trichlor...	0.037	0.095	0.114	0.075	0.283	1.393	2.387		0.028	Coef R2	0.91@

 (#,\$,@)=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: CHEM24
Heated Purge (Y/N): Y
GC Column: RTX-VMS

Client: WALDENE-IPARK
SDG No.: GCI26499
Calibration Date From: 04/22/21 01:39
Calibration Date Thru: 04/22/21 06:12
Method File: 24AIR_0421.M

Laboratory File Ids

RRF1	0421_03.D	RRF2	0421_04.D	RRF3	0421_05.D	RRF4	0421_06.D	RRF5	0421_07.D	RRF6	0421_08.D	RRF7	0421_14.D	RRF8	0421_09.D	RRF9	0421_10.D	RRF10	0421_15.D	RRF11	0421_11.D	RRF12	0421_12.D		
COMPOUND		RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.2	RRF6 0.5	RRF7 1	RRF8 2.5	RRF9 5	RRF10 10	RRF11 25	RRF12 40	— RRF	% RSD										
Dichlorodifluoromethane					2.435	2.258	2.036	2.290	2.129	2.627	2.351	2.086	1.749	2.218	11.46										
Vinyl Chloride					1.191	1.105	0.978	1.021	0.982	1.119	1.046	1.069	1.013	1.058	6.63										
Acetone						2.841	2.621	2.506	2.565	2.664	2.563	2.657	2.481	2.612	4.35										
Trichlorofluoromethane					2.753	2.559	2.557	2.520	2.545	2.789	2.594	2.710	2.527	2.617	3.99										
1,1-Dichloroethene					1.860	1.856	1.728	1.825	1.778	1.948	1.764	1.859	1.759	1.820	3.80										
Methylene Chloride						1.808	1.746	1.803	1.744	1.900	1.813	1.848	1.554	1.777	5.82										
Trichlorotrifluoroethane					1.994	1.759	1.793	1.733	1.760	1.910	1.797	1.874	1.768	1.821	4.76										
Cis-1,2-Dichloroethene					1.783	1.788	1.780	1.768	1.792	1.881	1.818	1.757	1.595	1.774	4.29										
1,1,1-Trichloroethane					2.368	2.213	2.120	2.228	2.245	2.432	2.298	2.393	2.246	2.282	4.36										
Benzene					2.350	2.324	2.298	2.394	2.289	2.494	2.401	2.483	2.380	2.379	3.09										
Carbon Tetrachloride					2.343	2.322	2.525	2.380	2.430	2.677	2.519	2.648	2.486	2.481	5.07										
Trichloroethene					0.404	0.384	0.398	0.402	0.403	0.438	0.418	0.428	0.410	0.410	3.99										
Toluene					0.918	0.898	0.920	0.899	0.900	0.963	0.948	0.969	0.919	0.926	2.96										
Tetrachloroethene					0.553	0.570	0.573	0.565	0.564	0.605	0.586	0.594	0.558	0.574	3.03										
Chlorobenzene					1.555	1.533	1.596	1.550	1.538	1.675	1.673	1.695	1.610	1.603	3.99										
Ethylbenzene					2.445	2.274	2.529	2.435	2.375	2.601	2.571	2.615	2.424	2.474	4.59										
m,p-Xylene					1.886	1.842	1.909	1.519	1.860	2.036	2.012	2.040	1.919	1.892	8.37										
o-Xylene					2.050	2.016	2.031	1.998	1.931	2.127	2.087	2.134	2.056	2.048	3.11										
1,3-Dichlorobenzene					1.491	1.238	1.397	1.491	1.459	1.595	1.562	1.619	1.512	1.485	7.77										
1,4-Dichlorobenzene					1.552	1.242	1.353	1.436	1.376	1.508	1.506	1.586	1.500	1.451	7.56										
1,2-Dichlorobenzene					1.256	0.943	1.049	1.138	1.115	1.185	1.210	1.298	1.231	1.158	9.58										
1,2,4-Trichlorobenzene	qfi					0.070	0.272	1.206	1.937	4.388	8.175	28.820	38.380	Coef R2	0.98										
Vinyl Chloride(sim)			1.389	1.318	1.140	1.046	1.047	1.087	1.052	1.172				1.156	11.35										
Benzene(sim)		3.642	2.989	2.935	2.582	2.473	2.476	2.489	2.460					2.756	15.14										
Carbon Tetrachloride(sim)		2.911	2.546	2.885	2.225	2.236	2.444	2.294	2.345	2.594				2.498	10.43										

(#) 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

Phoenix Environmental Laboratories, Inc.

6B

Client: WALDENE-IPARK

SDG No.: GCI26499

Calibration Date From: 04/22/21 01:39

Calibration Date Thru: 04/22/21 06:12

Method File: 24AIR 0421.M

[illegible]

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

Phoenix Environmental Laboratories, Inc.

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_03.D
 Acq On : 21 Apr 2021 10:47 pm
 Operator : Keith
 Client ID : ICAL 0.02
 Lab ID : 0.02
 ALS Vial : 47 Sample Multiplier: 1

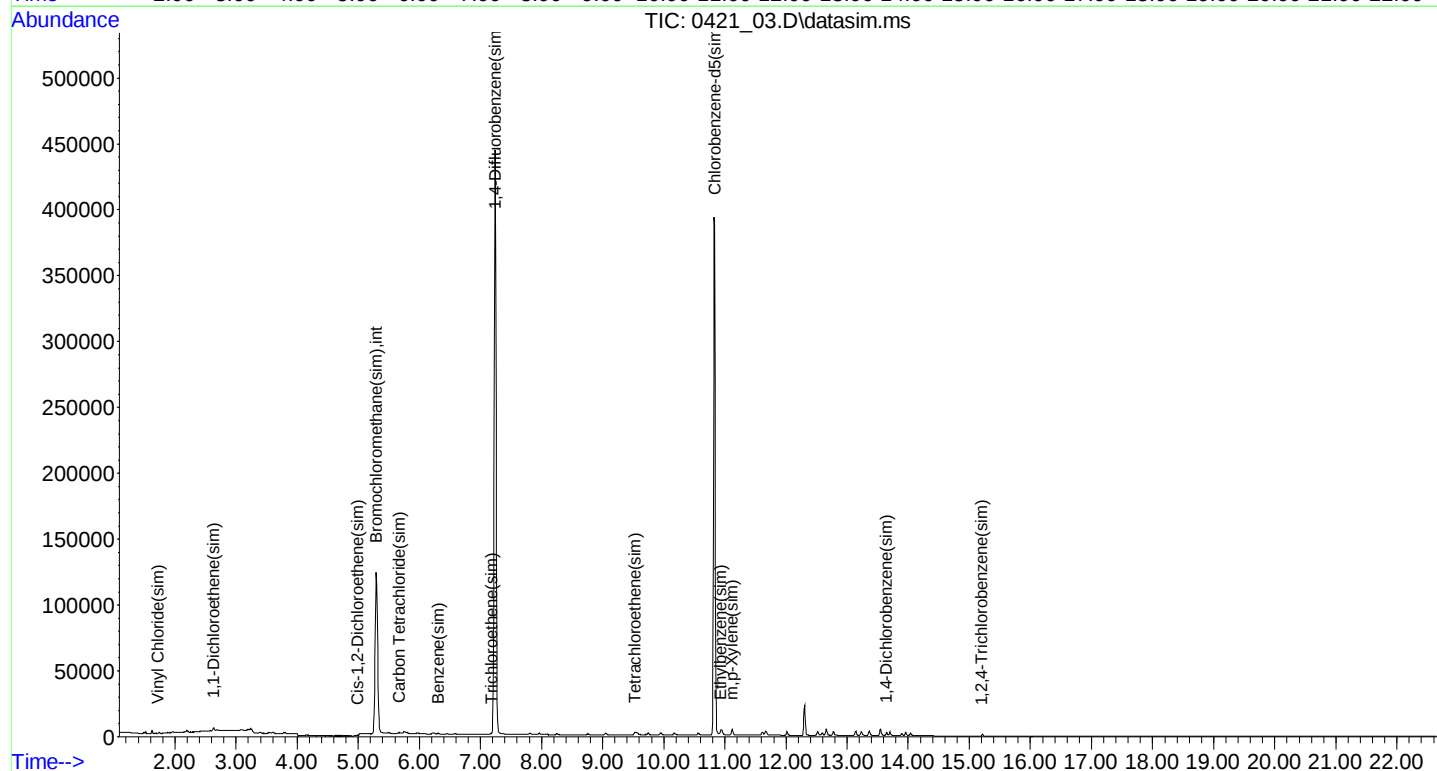
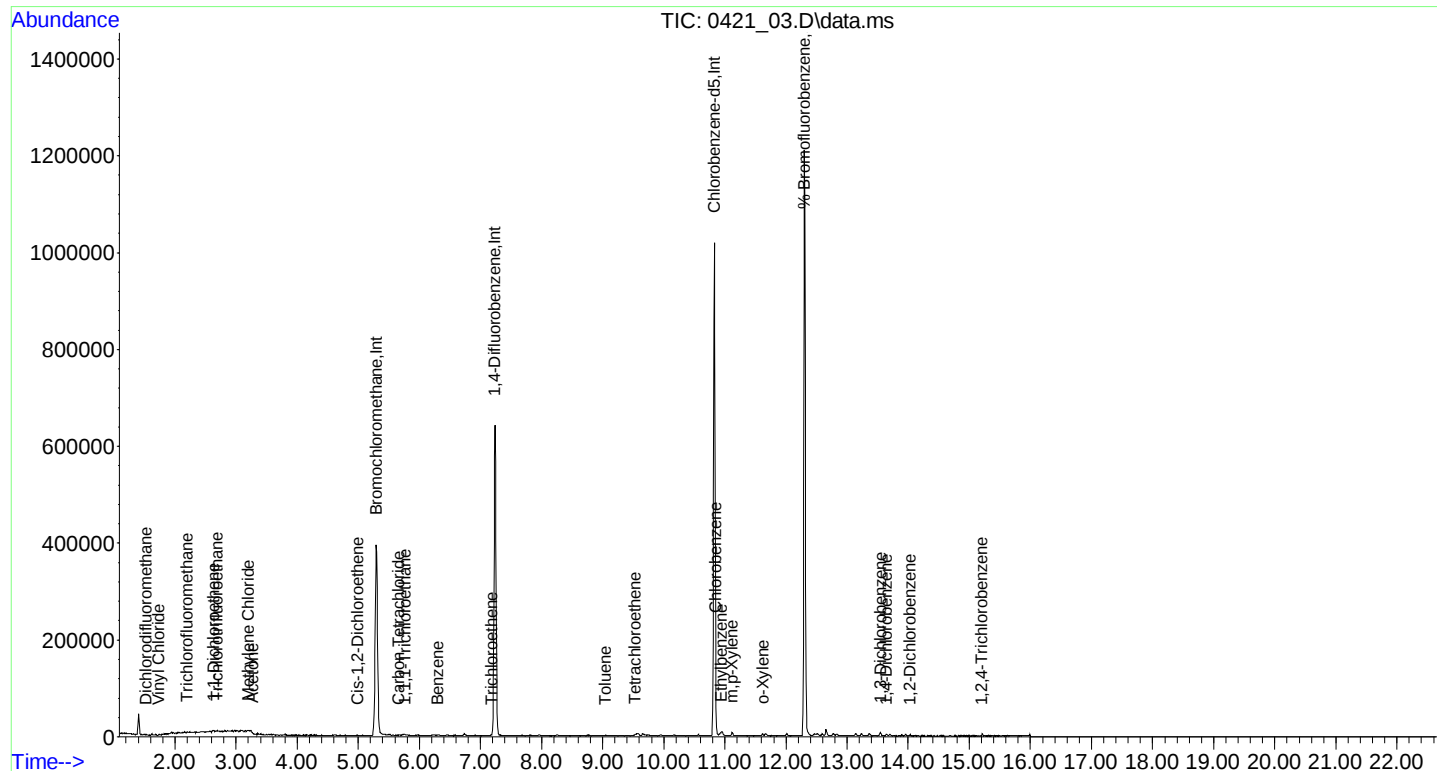
Quant Time: Apr 22 08:17:06 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:15:54 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.293	130	164872	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	561474	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	280784	10.000	ng	0.00
80) Bromochloromethane(sim)	5.296	130	171220	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	561474	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	280784	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.302	95	385099	9.786	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.90%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.526	85	1130	0.031	ppbv#	92
6) Vinyl Chloride	1.732	62	468	0.027	ppbv	98
12) Acetone	3.272	43	3531	0.082	ppbv	99
13) Trichlorofluoromethane	2.197	101	1160	0.027	ppbv#	80
16) 1,1-Dichloroethene	2.636	61	694	0.023	ppbv#	29
17) Methylene Chloride	3.203	49	1011	0.035	ppbv#	52
21) Trichlorotrifluoroethane	2.690	101	886	0.030	ppbv#	86
26) Cis-1,2-Dichloroethene	4.992	61	774	0.026	ppbv#	89
32) 1,1,1-Trichloroethane	5.769	97	926	0.025	ppbv#	27
33) Benzene	6.300	78	1443	0.037	ppbv#	60
34) Carbon Tetrachloride	5.668	117	532	0.013	ppbv#	38
39) Trichloroethene	7.183	130	439	0.019	ppbv#	38
48) Toluene	9.046	91	1523	0.029	ppbv#	87
52) Tetrachloroethene	9.530	166	901	0.028	ppbv	92
55) Chlorobenzene	10.850	112	1331	0.030	ppbv#	1
56) Ethylbenzene	10.939	91	2420	0.035	ppbv	86
57) m,p-Xylene	11.117	91	3607	0.068	ppbv	96
61) o-Xylene	11.618	91	1964	0.034	ppbv#	88
71) 1,3-Dichlorobenzene	13.548	146	1236	0.030	ppbv#	87
72) 1,4-Dichlorobenzene	13.646	146	1353	0.033	ppbv	87
75) 1,2-Dichlorobenzene	14.035	146	949	0.029	ppbv#	84
77) 1,2,4-Trichlorobenzene	15.204	180	117	0.012	ppbv#	66
82] Vinyl Chloride(sim)	1.728	62	553	0.028	ppbv	99
86] Benzene(sim)	6.310	78	1247	0.026	ppbv	97
87] Carbon Tetrachloride(sim)	5.671	117	997m	0.023	ppbv	45
88] 1,1-Dichloroethene(sim)	2.632	61	898	0.026	ppbv#	85
92] Cis-1,2-Dichloroethene...	4.990	61	809	0.025	ppbv	92
98] Trichloroethene(sim)	7.180	130	650	0.026	ppbv	95
104] Tetrachloroethene(sim)	9.525	166	909	0.026	ppbv	95
108] Ethylbenzene(sim)	10.935	91	2425	0.030	ppb	99
109] m,p-Xylene(sim)	11.117	91	3607	0.066	ppbv#	91
116] 1,4-Dichlorobenzene(sim)	13.649	146	1347	0.028	ppbv	98
121] 1,2,4-Trichlorobenzene...	15.207	180	255m	0.030	ppbv	15

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_03.D
Acq On : 21 Apr 2021 10:47 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 47 Sample Multiplier: 1

Quant Time: Apr 22 08:17:06 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:15:54 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_04.D
 Acq On : 21 Apr 2021 11:16 pm
 Operator : Keith
 Client ID : ICAL 0.035
 Lab ID : 0.035
 ALS Vial : 48 Sample Multiplier: 1

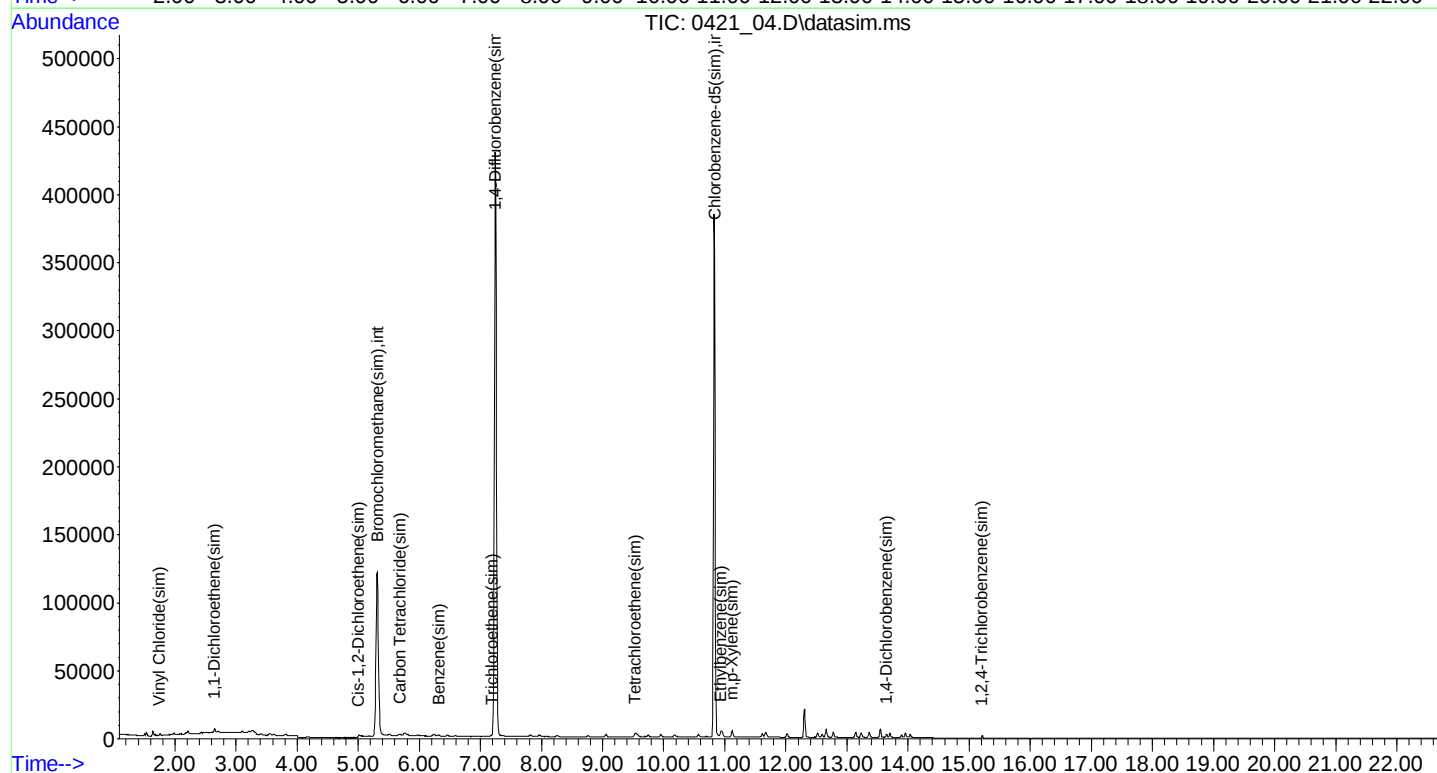
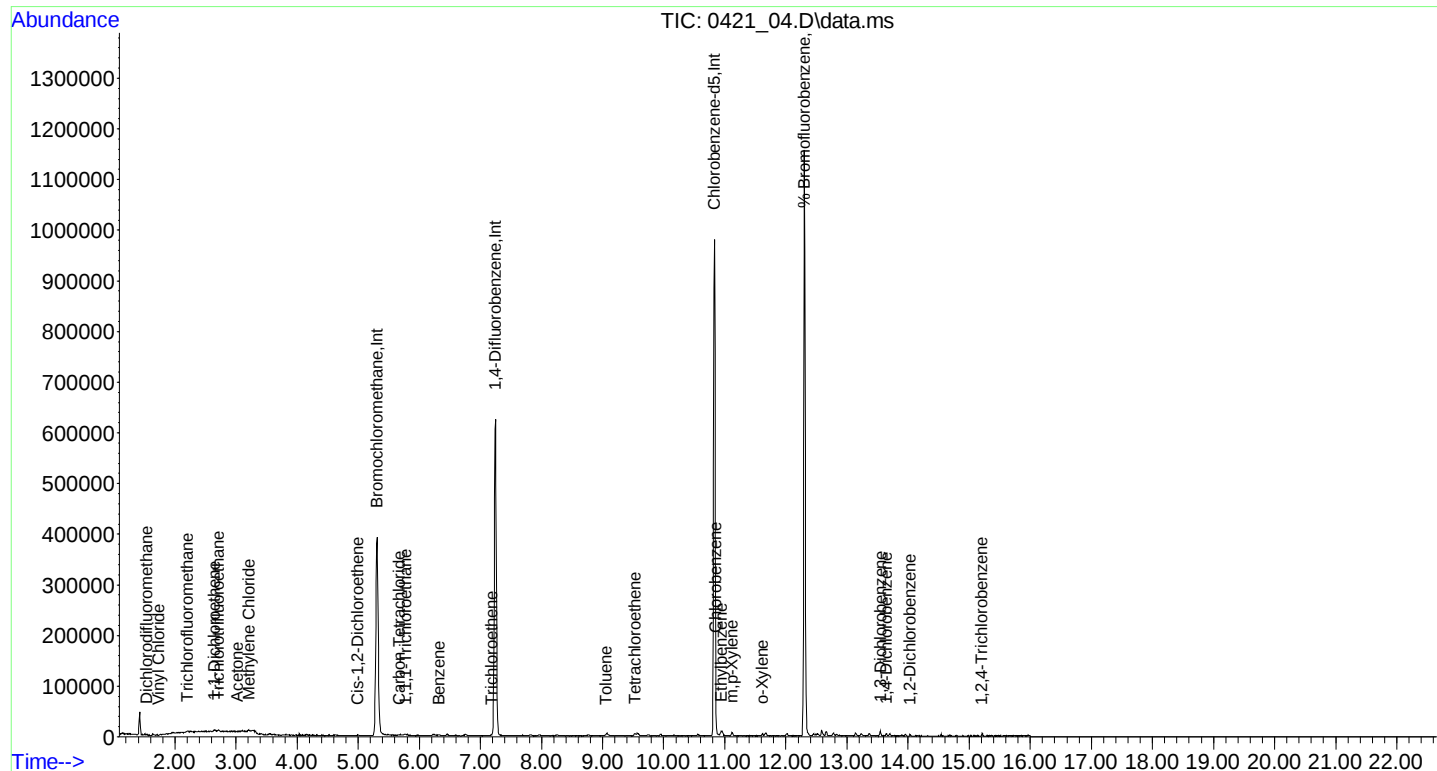
Quant Time: Apr 22 08:18:54 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:17:19 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.310	130	165201	10.000	ng	0.02
36) 1,4-Difluorobenzene	7.247	114	553866	10.000	ng	0.00
53) Chlorobenzene-d5	10.831	82	270379	10.000	ng	0.00
80) Bromochloromethane(sim)	5.313	130	170543	10.000	ng	# 0.02
95) 1,4-Difluorobenzene(sim)	7.247	114	553866	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.831	82	270379	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.304	95	360091	9.502	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	95.00%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.540	85	1678	0.046	ppbv	98
6) Vinyl Chloride	1.739	62	1029	0.059	ppbv	90
12) Acetone	3.026	43	474	0.011	ppbv	95
13) Trichlorofluoromethane	2.211	101	1720	0.040	ppbv#	94
16) 1,1-Dichloroethene	2.649	61	1305	0.043	ppbv#	74
17) Methylene Chloride	3.217	49	1454	0.050	ppbv#	78
21) Trichlorotrifluoroethane	2.711	101	1319	0.044	ppbv#	92
26) Cis-1,2-Dichloroethene	4.997	61	1037	0.035	ppbv#	83
32) 1,1,1-Trichloroethane	5.779	97	1566	0.042	ppbv	89
33) Benzene	6.323	78	1651	0.042	ppbv#	76
34) Carbon Tetrachloride	5.671	117	1742	0.043	ppbv	87
39) Trichloroethene	7.178	130	882	0.039	ppbv#	75
48) Toluene	9.056	91	1957	0.038	ppbv	95
52) Tetrachloroethene	9.525	166	1060	0.033	ppbv	94
55) Chlorobenzene	10.852	112	1533	0.035	ppbv#	1
56) Ethylbenzene	10.941	91	2556	0.038	ppbv	89
57) m,p-Xylene	11.119	91	4169	0.082	ppbv	95
61) o-Xylene	11.614	91	2196	0.040	ppbv	96
71) 1,3-Dichlorobenzene	13.550	146	1715	0.043	ppbv	92
72) 1,4-Dichlorobenzene	13.648	146	1729	0.044	ppbv#	86
75) 1,2-Dichlorobenzene	14.030	146	1073	0.034	ppbv#	86
77) 1,2,4-Trichlorobenzene	15.203	180	232	0.025	ppbv#	62
82] Vinyl Chloride(sim)	1.741	62	829	0.042	ppbv	98
86] Benzene(sim)	6.319	78	1784	0.038	ppbv	96
87] Carbon Tetrachloride(sim)	5.681	117	1520m	0.036	ppbv	35
88] 1,1-Dichloroethene(sim)	2.645	61	1304	0.037	ppbv	95
92] Cis-1,2-Dichloroethene...	5.005	61	1103	0.034	ppbv	95
98] Trichloroethene(sim)	7.188	130	846	0.034	ppbv	100
104] Tetrachloroethene(sim)	9.528	166	1098	0.032	ppbv	100
108] Ethylbenzene(sim)	10.937	91	2695	0.034	ppb	99
109] m,p-Xylene(sim)	11.119	91	4169	0.079	ppbv	95
116] 1,4-Dichlorobenzene(sim)	13.651	146	1711	0.037	ppbv	97
121] 1,2,4-Trichlorobenzene...	15.210	180	331m	0.040	ppbv	62

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_04.D
Acq On : 21 Apr 2021 11:16 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 48 Sample Multiplier: 1

Quant Time: Apr 22 08:18:54 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:17:19 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_05.D
 Acq On : 22 Apr 2021 12:34 am
 Operator : Keith
 Client ID : ICAL 0.05
 Lab ID : 0.05
 ALS Vial : 49 Sample Multiplier: 1

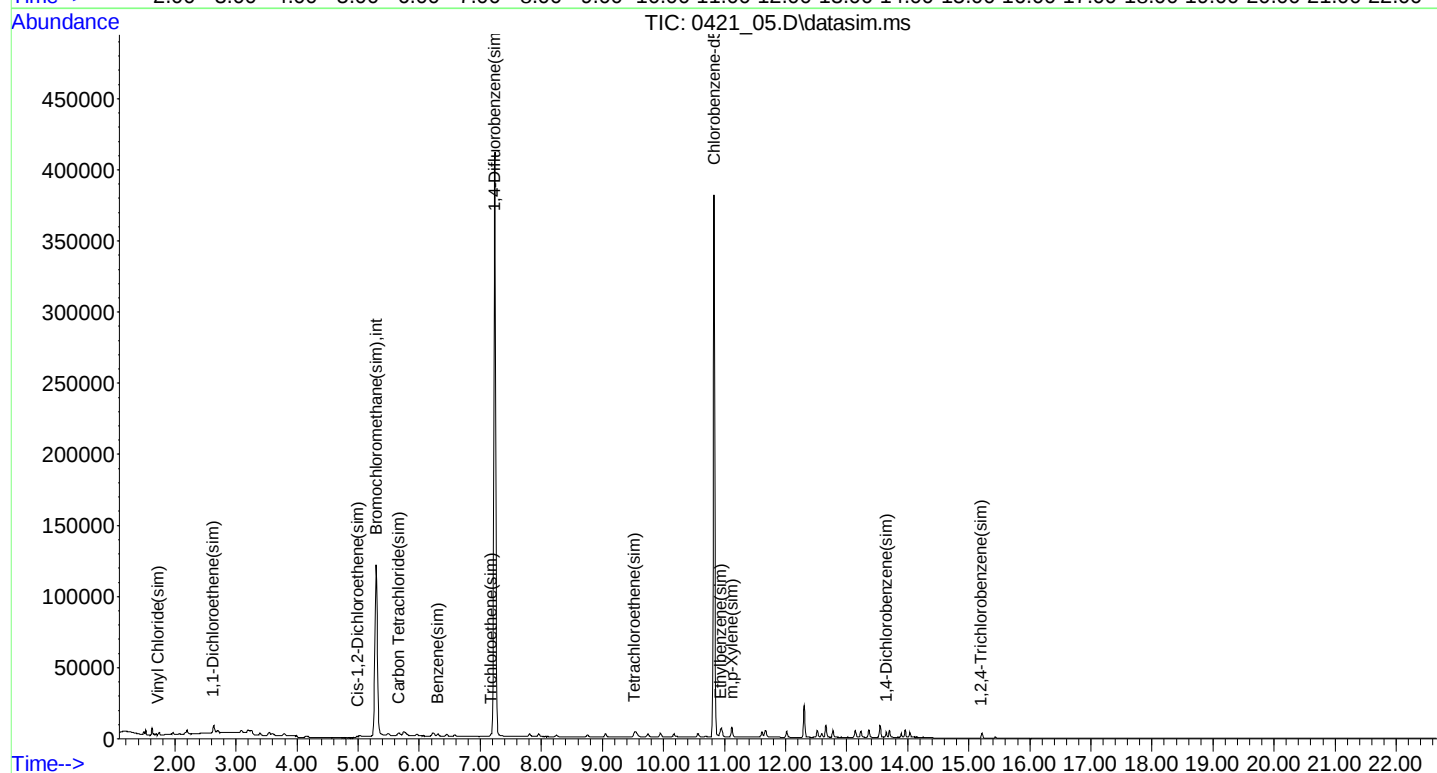
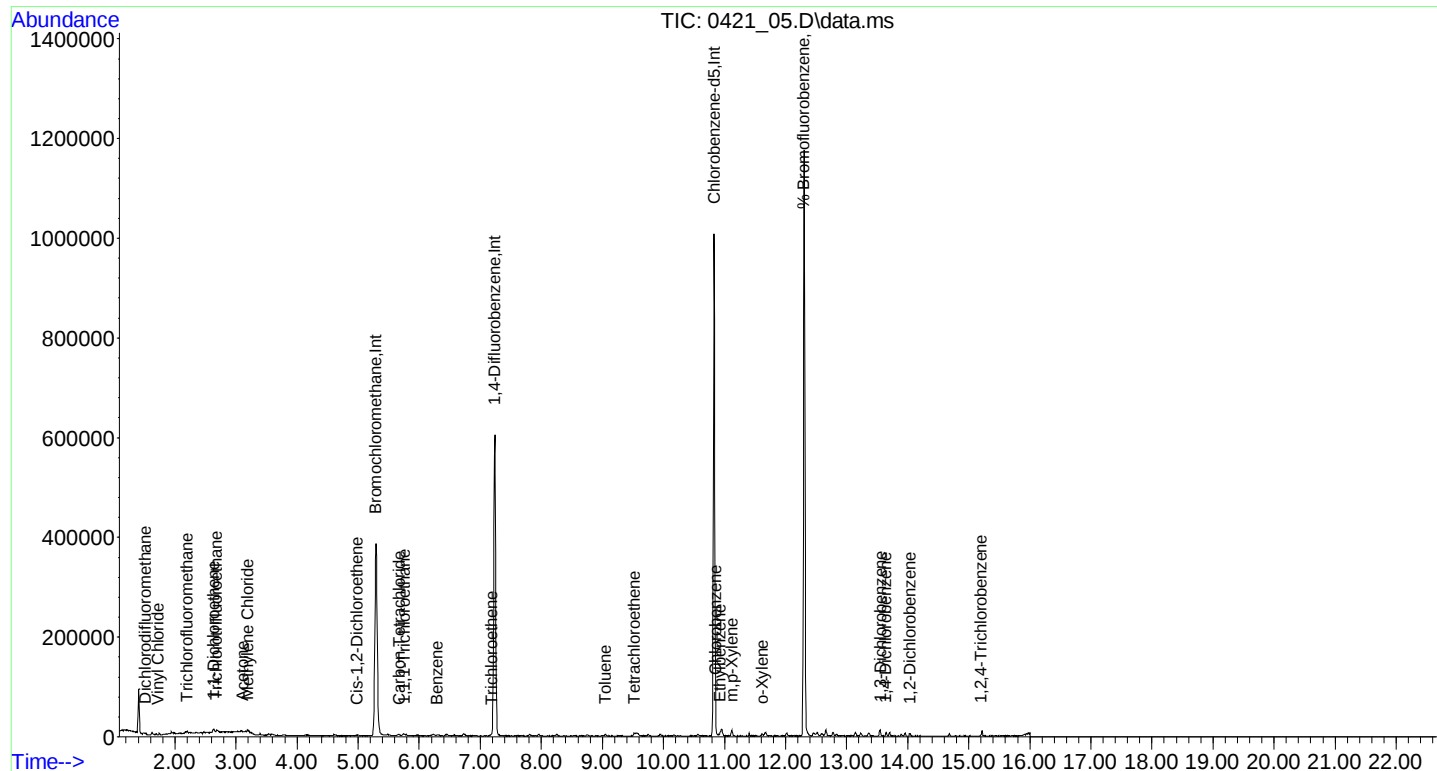
Quant Time: Apr 22 08:19:53 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:19:05 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.293	130	162687	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	539820	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	276618	10.000	ng	0.00
80) Bromochloromethane(sim)	5.296	130	168311	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	539820	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	276618	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.302	95	373137	9.624	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.20%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.519	85	2095	0.058	ppbv#	96
6) Vinyl Chloride	1.725	62	1145	0.067	ppbv	95
12) Acetone	3.108	43	275	0.006	ppbv	97
13) Trichlorofluoromethane	2.197	101	2490	0.058	ppbv#	96
16) 1,1-Dichloroethene	2.636	61	1904	0.064	ppbv#	82
17) Methylene Chloride	3.196	49	2256	0.078	ppbv	96
21) Trichlorotrifluoroethane	2.683	101	1800	0.061	ppbv	90
26) Cis-1,2-Dichloroethene	4.982	61	1488	0.052	ppbv#	87
32) 1,1,1-Trichloroethane	5.762	97	2137	0.058	ppbv	92
33) Benzene	6.300	78	2401	0.062	ppbv#	90
34) Carbon Tetrachloride	5.675	117	2166	0.054	ppbv	97
39) Trichloroethene	7.183	130	1279	0.058	ppbv	91
48) Toluene	9.053	91	2901	0.058	ppbv#	95
52) Tetrachloroethene	9.522	166	1615	0.052	ppbv	92
55) Chlorobenzene	10.856	112	2204	0.050	ppbv#	1
56) Ethylbenzene	10.932	91	3684	0.054	ppbv	92
57) m,p-Xylene	11.124	91	5648	0.108	ppbv	96
61) o-Xylene	11.618	91	2854	0.050	ppbv#	96
71) 1,3-Dichlorobenzene	13.555	146	2332	0.057	ppbv	89
72) 1,4-Dichlorobenzene	13.646	146	2230	0.056	ppbv	97
75) 1,2-Dichlorobenzene	14.035	146	1907	0.060	ppbv	97
77) 1,2,4-Trichlorobenzene	15.209	180	696	0.072	ppbv#	74
82] Vinyl Chloride(sim)	1.728	62	1109	0.057	ppbv	99
86] Benzene(sim)	6.310	78	2470	0.053	ppbv	98
87] Carbon Tetrachloride(sim)	5.664	117	2428m	0.058	ppbv	87
88] 1,1-Dichloroethene(sim)	2.632	61	1920	0.056	ppbv	98
92] Cis-1,2-Dichloroethene...	4.995	61	1663	0.051	ppbv	97
98] Trichloroethene(sim)	7.180	130	1247	0.051	ppbv	98
104] Tetrachloroethene(sim)	9.525	166	1687	0.051	ppbv	98
108] Ethylbenzene(sim)	10.935	91	3918	0.049	ppb	100
109] m,p-Xylene(sim)	11.124	91	5648	0.104	ppbv	95
116] 1,4-Dichlorobenzene(sim)	13.649	146	2498	0.053	ppbv	98
121] 1,2,4-Trichlorobenzene...	15.207	180	856m	0.101	ppbv	94

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_05.D
Acq On : 22 Apr 2021 12:34 am
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 49 Sample Multiplier: 1

Quant Time: Apr 22 08:19:53 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:19:05 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_06.D
 Acq On : 22 Apr 2021 1:06 am
 Operator : Keith
 Client ID : ICAL 0.1
 Lab ID : 0.10
 ALS Vial : 50 Sample Multiplier: 1

Quant Time: Apr 22 08:20:19 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:20:04 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.286	130	167340	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	558854	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	281508	10.000	ng	0.00
80) Bromochloromethane(sim)	5.296	130	174068	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	558854	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	281508	10.000	ng	0.00

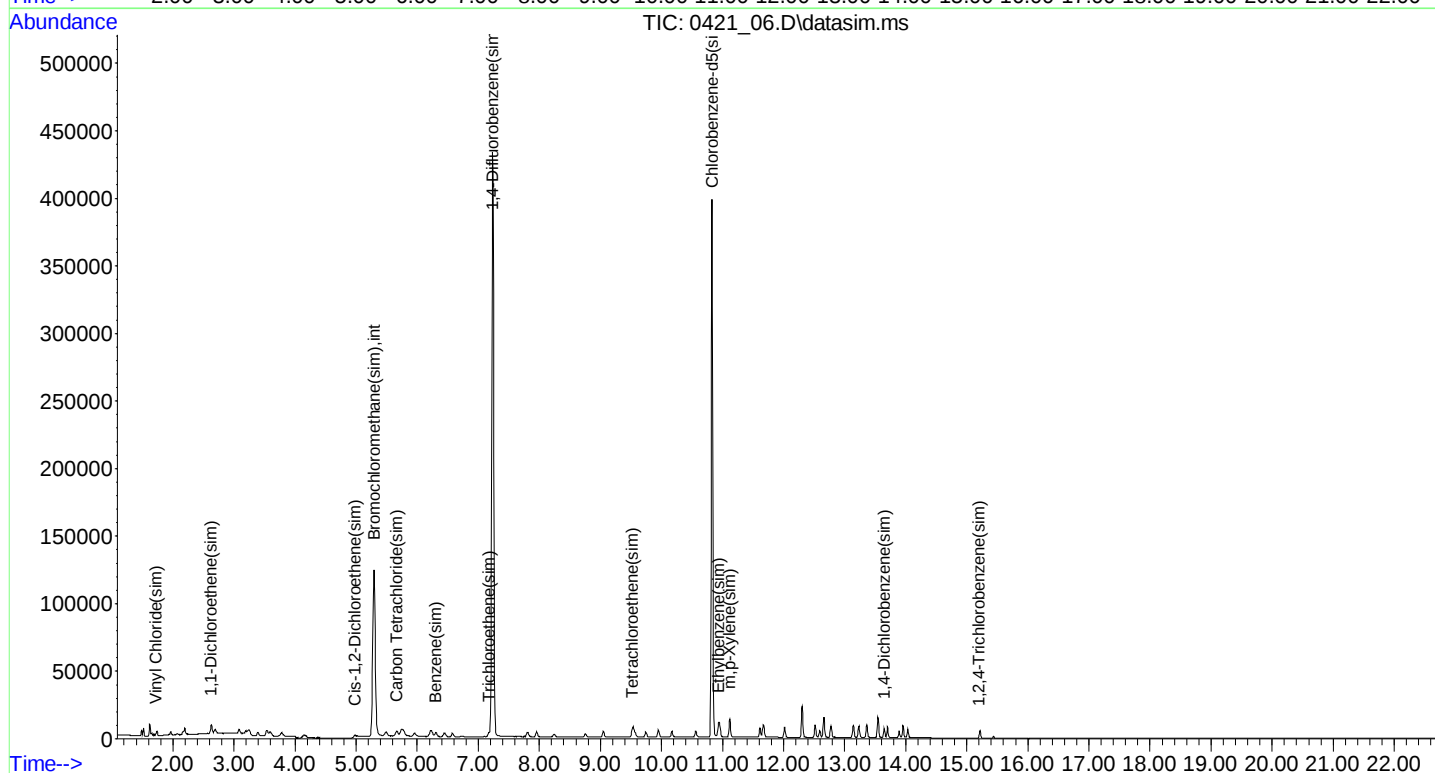
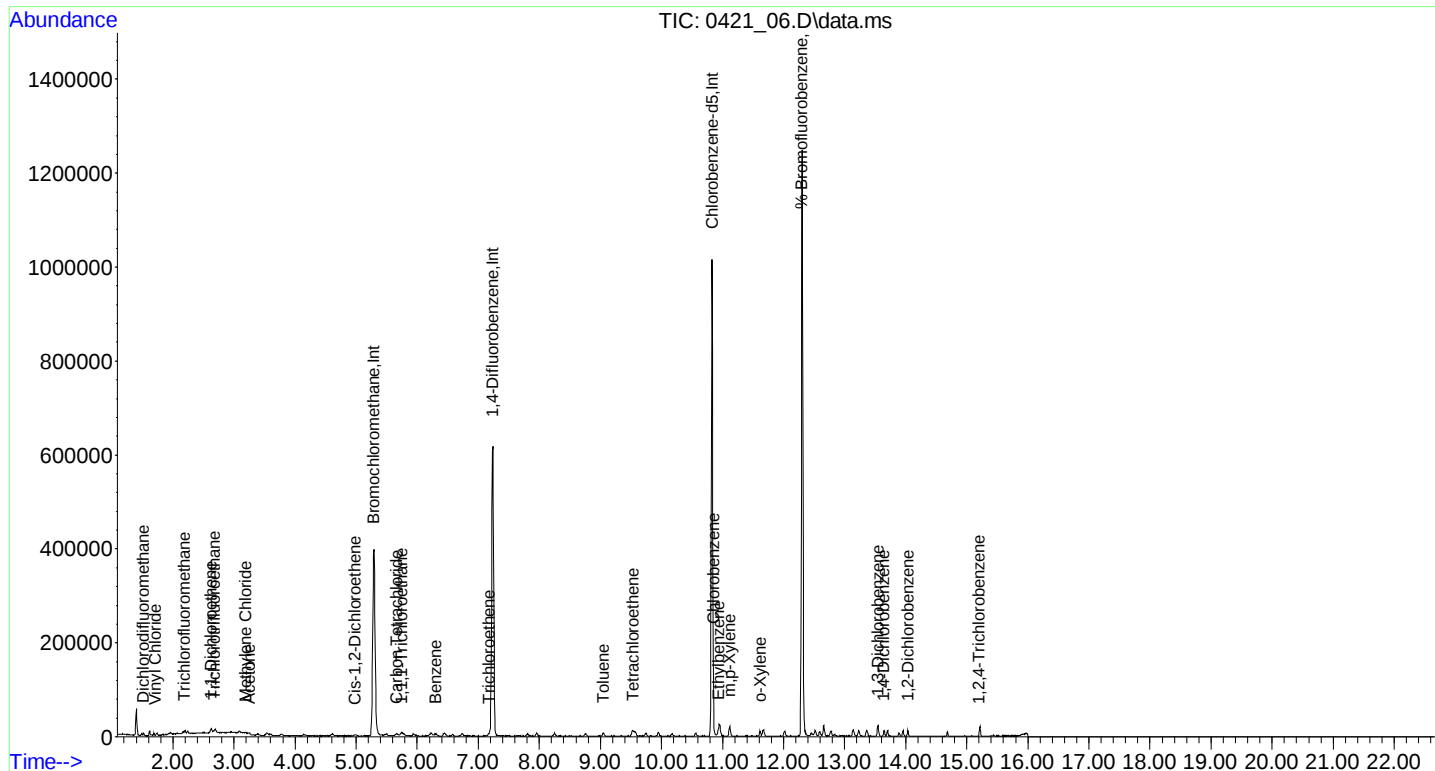
System Monitoring Compounds						
62) % Bromofluorobenzene	12.302	95	396916	10.060	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 100.60%	

Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.519	85	4075	0.110	ppbv	98
6) Vinyl Chloride	1.718	62	1993	0.113	ppbv	91
12) Acetone	3.251	43	5568	0.127	ppbv	96
13) Trichlorofluoromethane	2.191	101	4607	0.105	ppbv	95
16) 1,1-Dichloroethene	2.629	61	3113	0.102	ppbv#	83
17) Methylene Chloride	3.190	49	3635	0.122	ppbv	93
21) Trichlorotrifluoroethane	2.683	101	3336	0.109	ppbv	95
26) Cis-1,2-Dichloroethene	4.987	61	2983	0.101	ppbv#	49
32) 1,1,1-Trichloroethane	5.755	97	3962	0.104	ppbv	95
33) Benzene	6.307	78	3932	0.099	ppbv#	89
34) Carbon Tetrachloride	5.661	117	3921	0.094	ppbv	95
39) Trichloroethene	7.170	130	2256	0.099	ppbv	87
48) Toluene	9.053	91	5132	0.099	ppbv	98
52) Tetrachloroethene	9.530	166	3088	0.096	ppbv	98
55) Chlorobenzene	10.850	112	4377	0.097	ppbv#	55
56) Ethylbenzene	10.932	91	6882	0.099	ppbv	97
57) m,p-Xylene	11.117	91	10621	0.199	ppbv	93
61) o-Xylene	11.618	91	5772	0.100	ppbv	98
71) 1,3-Dichlorobenzene	13.548	146	4198	0.100	ppbv	97
72) 1,4-Dichlorobenzene	13.646	146	4368	0.107	ppbv	94
75) 1,2-Dichlorobenzene	14.035	146	3536	0.108	ppbv	97
77) 1,2,4-Trichlorobenzene	15.202	180	1087	0.110	ppbv#	86
82] Vinyl Chloride(sim)	1.721	62	1985	0.099	ppbv	96
86] Benzene(sim)	6.303	78	4495	0.094	ppbv	99
87] Carbon Tetrachloride(sim)	5.661	117	3873	0.089	ppbv#	93
88] 1,1-Dichloroethene(sim)	2.625	61	3334	0.094	ppbv	99
92] Cis-1,2-Dichloroethene...	4.985	61	3052	0.091	ppbv	98
98] Trichloroethene(sim)	7.179	130	2357	0.094	ppbv	100
104] Tetrachloroethene(sim)	9.525	166	3248	0.095	ppbv	99
108] Ethylbenzene(sim)	10.935	91	7633	0.093	ppb	99
109] m,p-Xylene(sim)	11.117	91	10621	0.192	ppbv#	92
116] 1,4-Dichlorobenzene(sim)	13.649	146	4521	0.095	ppbv	97
121] 1,2,4-Trichlorobenzene...	15.202	180	1052	0.116	ppbv	89

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_06.D
Acq On : 22 Apr 2021 1:06 am
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 50 Sample Multiplier: 1

Quant Time: Apr 22 08:20:19 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:20:04 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_07.D
 Acq On : 22 Apr 2021 1:39 am
 Operator : Keith
 Client ID : ICAL 0.25
 Lab ID : 0.20
 ALS Vial : 51 Sample Multiplier: 1

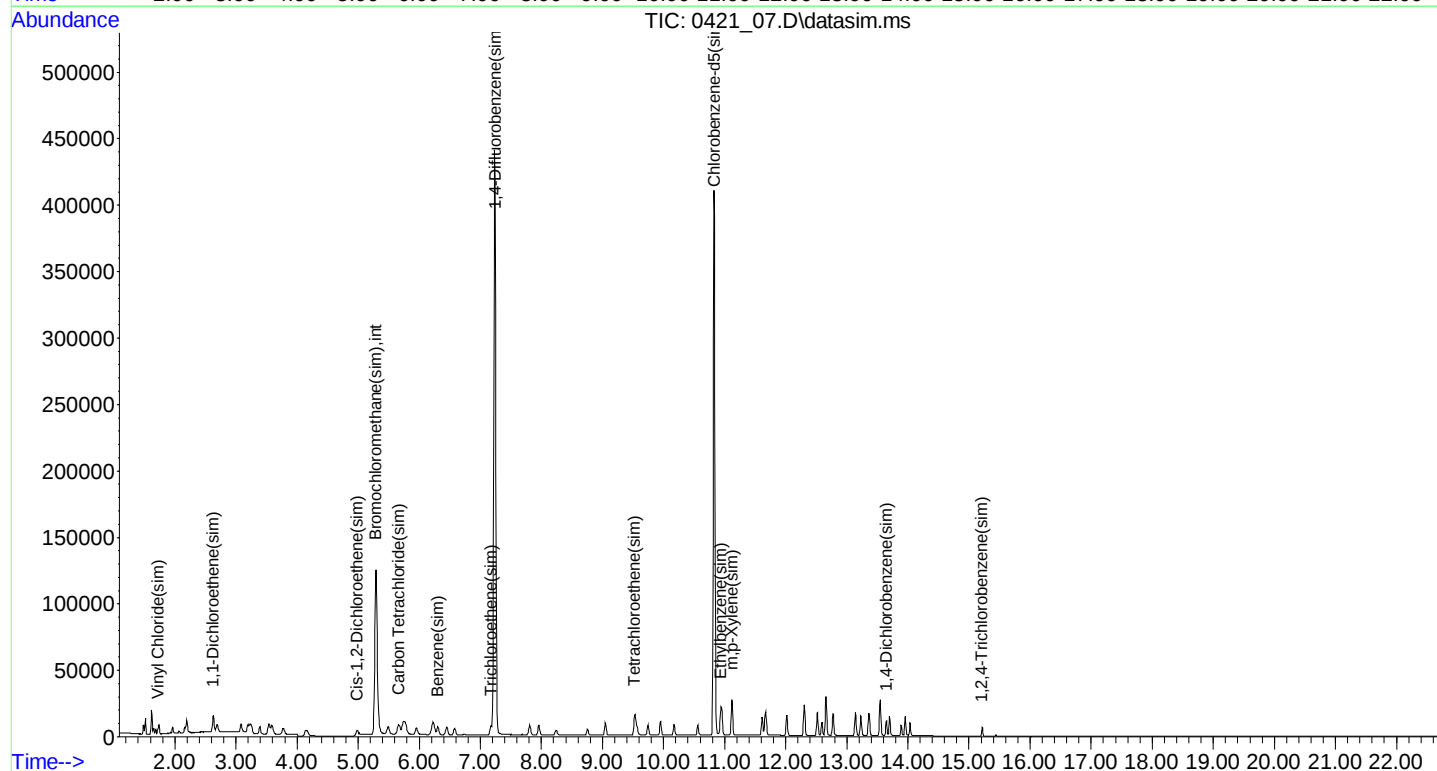
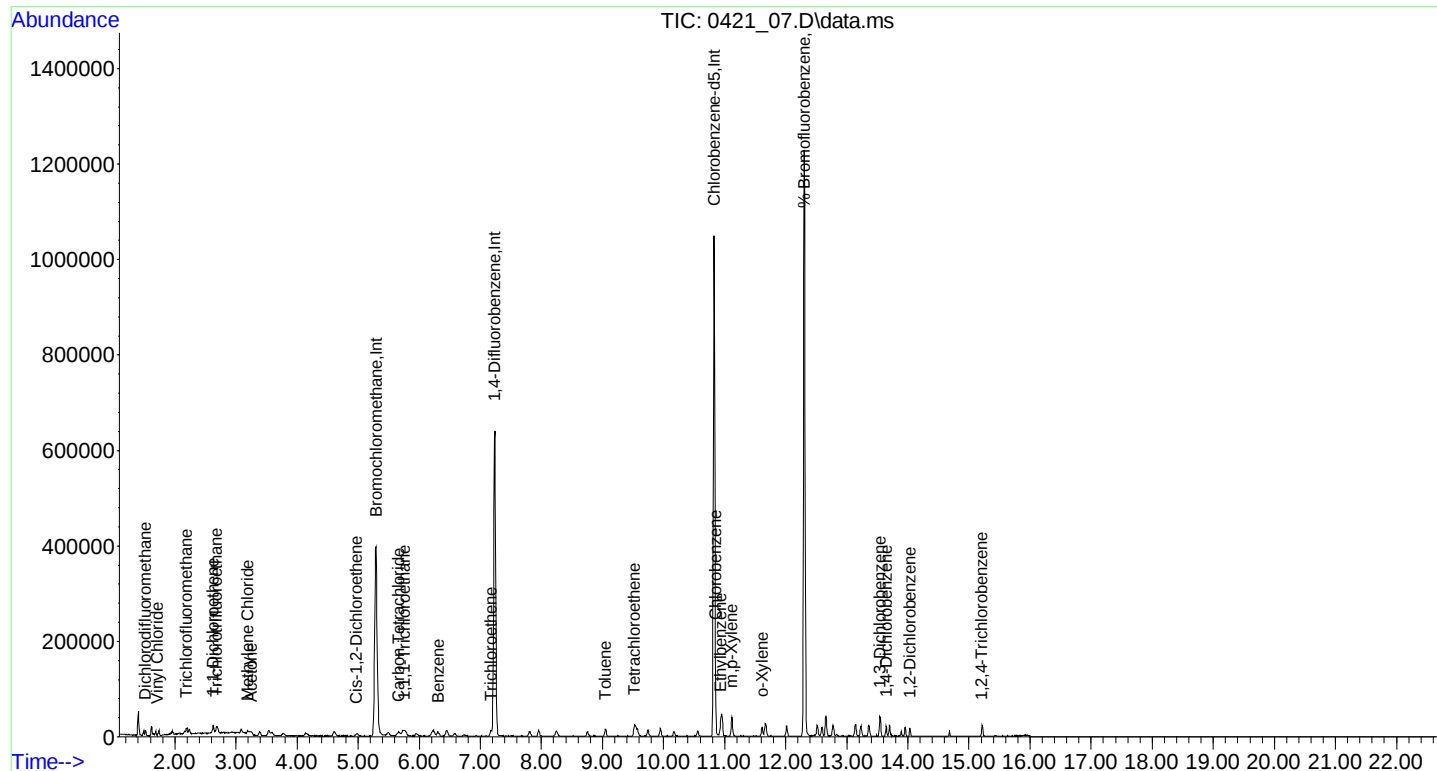
Quant Time: Apr 22 08:15:34 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:15:23 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.294	130	168234	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	560563	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	282658	10.000	ng	0.00
80) Bromochloromethane(sim)	5.289	130	173355	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	560563	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	282658	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.303	95	390335	9.832	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.30%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.513	85	7596	0.204	ppbv	99
6) Vinyl Chloride	1.718	62	3718	0.209	ppbv	99
12) Acetone	3.258	43	9560	0.218	ppbv	98
13) Trichlorofluoromethane	2.191	101	8609	0.196	ppbv	95
16) 1,1-Dichloroethene	2.622	61	6246	0.204	ppbv	98
17) Methylene Chloride	3.190	49	6085	0.204	ppbv	96
21) Trichlorotrifluoroethane	2.684	101	5918	0.193	ppbv	95
26) Cis-1,2-Dichloroethene	4.977	61	6017	0.202	ppbv	96
32) 1,1,1-Trichloroethane	5.755	97	7447	0.194	ppbv	96
33) Benzene	6.314	78	7821	0.195	ppbv	95
34) Carbon Tetrachloride	5.661	117	7812	0.187	ppbv	92
39) Trichloroethene	7.170	130	4309	0.188	ppbv	94
48) Toluene	9.053	91	10067	0.194	ppbv	98
52) Tetrachloroethene	9.523	166	6395	0.199	ppbv	96
55) Chlorobenzene	10.850	112	8668	0.191	ppbv#	68
56) Ethylbenzene	10.932	91	12855	0.184	ppbv	87
57) m,p-Xylene	11.117	91	20821	0.389	ppbv	99
61) o-Xylene	11.618	91	11399	0.197	ppbv	97
71) 1,3-Dichlorobenzene	13.549	146	6997	0.167	ppbv	95
72) 1,4-Dichlorobenzene	13.646	146	7022	0.171	ppbv	97
75) 1,2-Dichlorobenzene	14.035	146	5330	0.163	ppbv	99
77) 1,2,4-Trichlorobenzene	15.207	180	691	0.069	ppbv#	74
82] Vinyl Chloride(sim)	1.721	62	3625	0.181	ppbv	98
86] Benzene(sim)	6.303	78	8573	0.179	ppbv	99
87] Carbon Tetrachloride(sim)	5.661	117	7753	0.179	ppbv	89
88] 1,1-Dichloroethene(sim)	2.625	61	6440	0.182	ppbv	99
92] Cis-1,2-Dichloroethene...	4.980	61	6188	0.185	ppbv	95
98] Trichloroethene(sim)	7.173	130	4674	0.185	ppbv	100
104] Tetrachloroethene(sim)	9.526	166	6489	0.188	ppbv	99
108] Ethylbenzene(sim)	10.935	91	14720	0.179	ppb	100
109] m,p-Xylene(sim)	11.117	91	20821	0.376	ppbv	98
116] 1,4-Dichlorobenzene(sim)	13.649	146	7618	0.159	ppbv	98
121] 1,2,4-Trichlorobenzene...	15.207	180	691	0.070	ppbv	78

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_07.D
Acq On : 22 Apr 2021 1:39 am
Operator : Keith
Client ID : ICAL 0.25
Lab ID : 0.20
ALS Vial : 51 Sample Multiplier: 1

Quant Time: Apr 22 08:15:34 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:15:23 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_08.D
 Acq On : 22 Apr 2021 2:14 am
 Operator : Keith
 Client ID : ICAL 0.5
 Lab ID : 0.50
 ALS Vial : 52 Sample Multiplier: 1

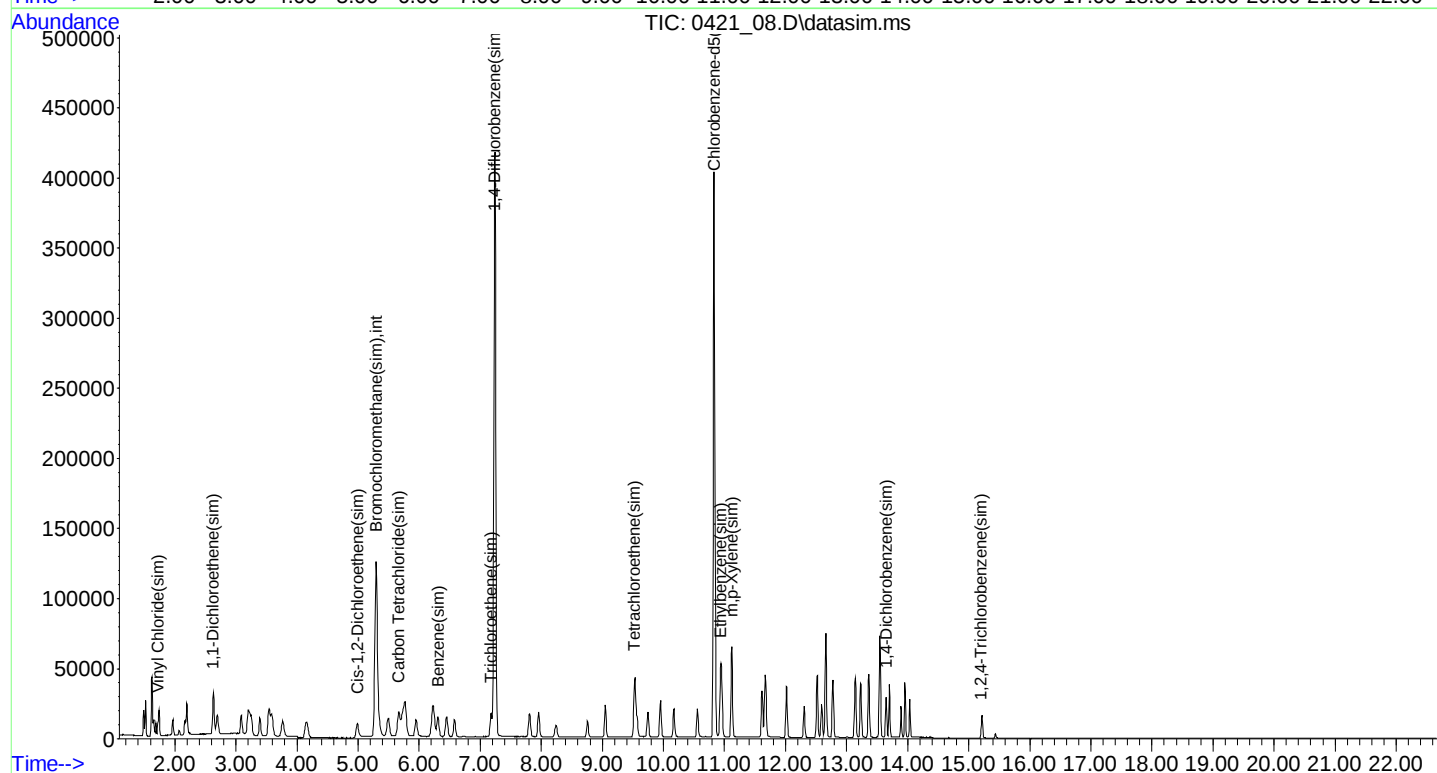
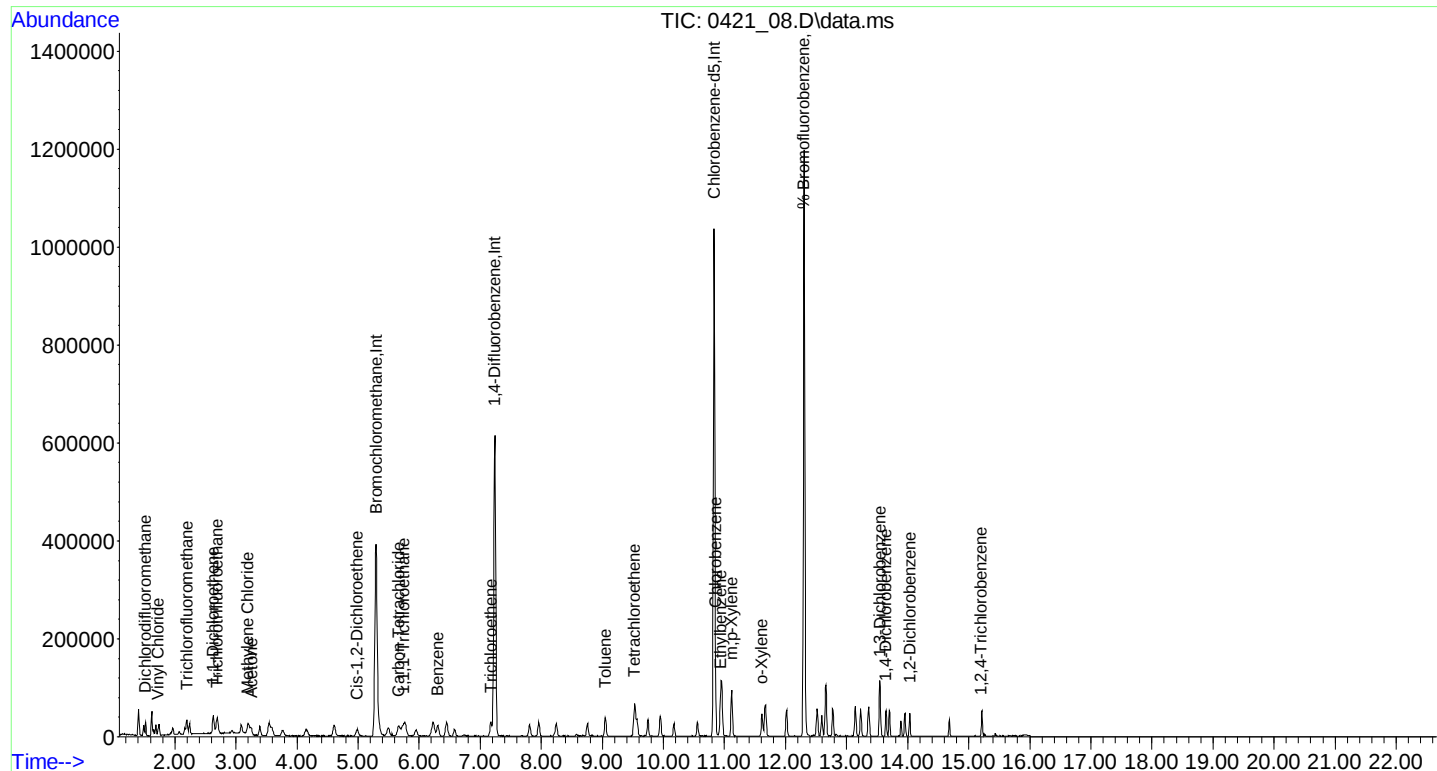
Quant Time: Apr 22 08:15:12 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:15:00 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.294	130	163491	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	536398	10.000	ng	0.00
53) Chlorobenzene-d5	10.830	82	271397	10.000	ng	0.00
80) Bromochloromethane(sim)	5.297	130	168896	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	536398	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.830	82	271397	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.303	95	374087	9.783	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.80%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.519	85	16647	0.459	ppbv	99
6) Vinyl Chloride	1.725	62	7996	0.462	ppbv	100
12) Acetone	3.251	43	21422	0.502	ppbv	100
13) Trichlorofluoromethane	2.198	101	20899	0.488	ppbv	97
16) 1,1-Dichloroethene	2.629	61	14122	0.475	ppbv	98
17) Methylene Chloride	3.197	49	14274	0.491	ppbv	99
21) Trichlorotrifluoroethane	2.691	101	14655	0.492	ppbv	98
26) Cis-1,2-Dichloroethene	4.982	61	14549	0.502	ppbv	99
32) 1,1,1-Trichloroethane	5.748	97	17327	0.464	ppbv	97
33) Benzene	6.307	78	18782	0.483	ppbv	98
34) Carbon Tetrachloride	5.661	117	20638	0.509	ppbv	95
39) Trichloroethene	7.170	130	10679	0.486	ppbv	98
48) Toluene	9.047	91	24673	0.497	ppbv	99
52) Tetrachloroethene	9.523	166	15381	0.499	ppbv	97
55) Chlorobenzene	10.850	112	21653	0.498	ppbv	85
56) Ethylbenzene	10.933	91	34314	0.511	ppbv	97
57) m,p-Xylene	11.118	91	51822	1.009	ppbv	98
61) o-Xylene	11.612	91	27566	0.496	ppbv	99
71) 1,3-Dichlorobenzene	13.549	146	18959	0.470	ppbv	98
72) 1,4-Dichlorobenzene	13.646	146	18363	0.466	ppbv	99
75) 1,2-Dichlorobenzene	14.036	146	14228	0.453	ppbv	98
77) 1,2,4-Trichlorobenzene	15.203	180	2595	0.266	ppbv	96
82] Vinyl Chloride(sim)	1.721	62	8842	0.453	ppbv	99
86] Benzene(sim)	6.310	78	20907	0.449	ppbv	100
87] Carbon Tetrachloride(sim)	5.661	117	20638	0.489	ppbv	93
88] 1,1-Dichloroethene(sim)	2.625	61	15461	0.447	ppbv	99
92] Cis-1,2-Dichloroethene...	4.990	61	16079	0.494	ppbv	95
98] Trichloroethene(sim)	7.180	130	11455	0.474	ppbv	100
104] Tetrachloroethene(sim)	9.526	166	15786	0.479	ppbv	100
108] Ethylbenzene(sim)	10.935	91	36367	0.461	ppb	100
109] m,p-Xylene(sim)	11.118	91	51824	0.974	ppbv	99
116] 1,4-Dichlorobenzene(sim)	13.649	146	20005	0.434	ppbv	100

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_08.D
Acq On : 22 Apr 2021 2:14 am
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.50
ALS Vial : 52 Sample Multiplier: 1

Quant Time: Apr 22 08:15:12 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:15:00 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_09.D
 Acq On : 22 Apr 2021 2:49 am
 Operator : Keith
 Client ID : ICAL 2.5
 Lab ID : 2.5
 ALS Vial : 53 Sample Multiplier: 1

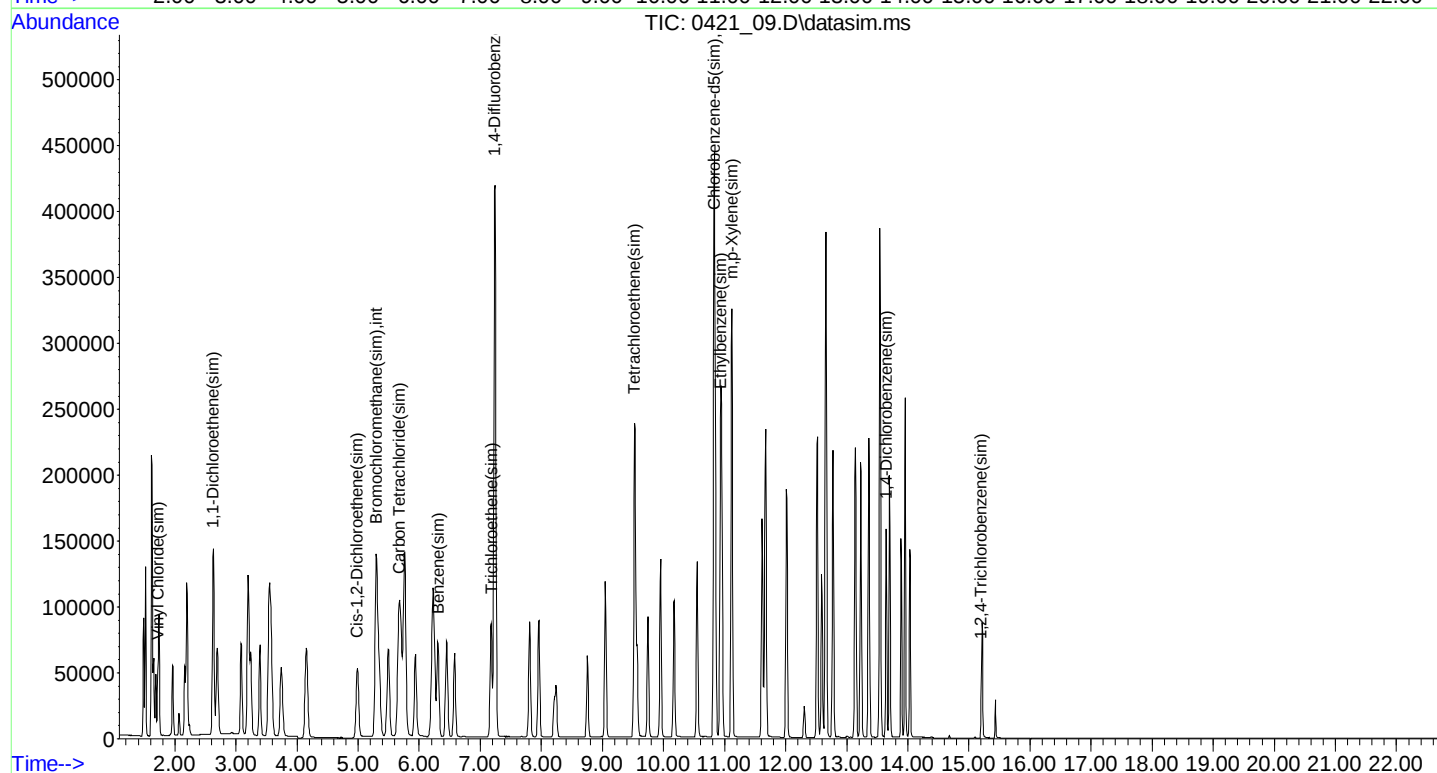
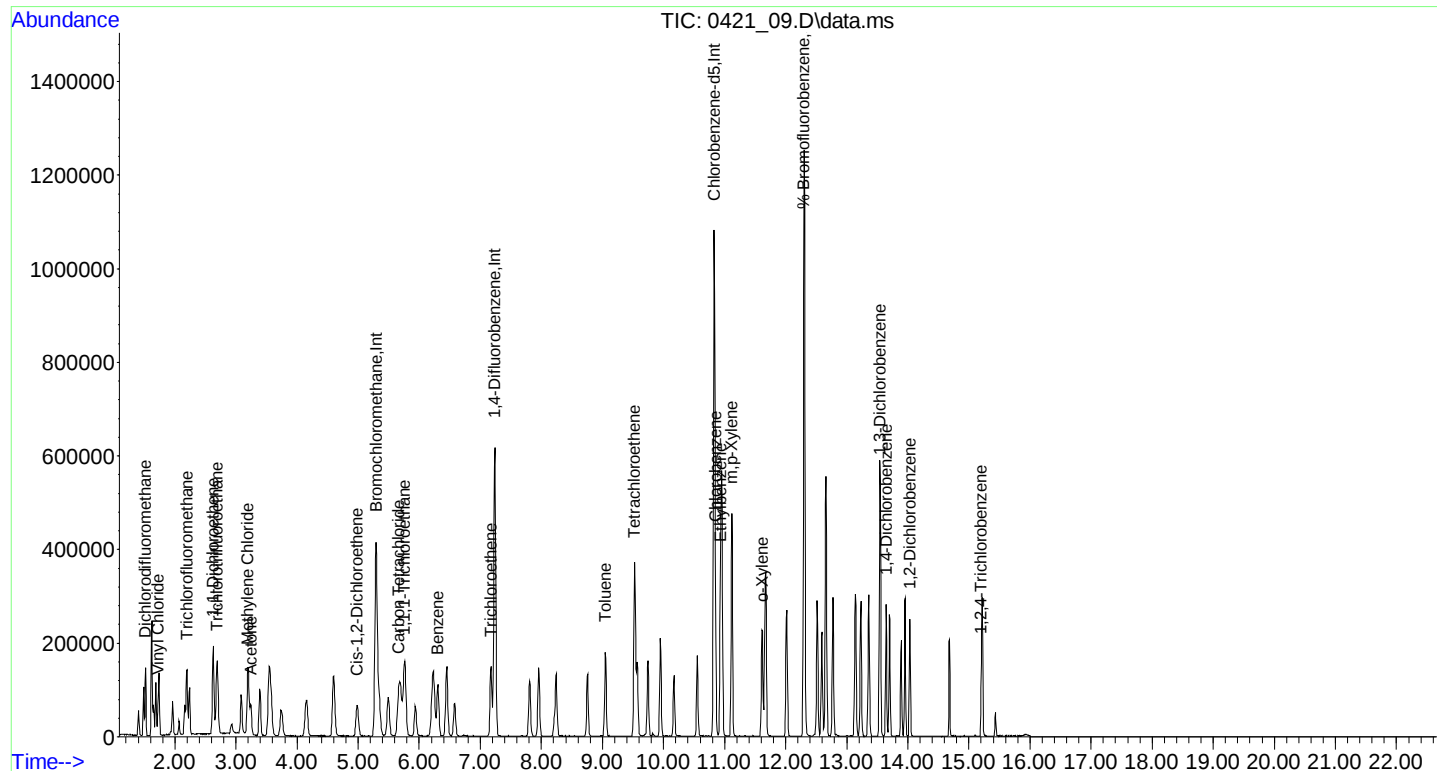
Quant Time: Apr 22 08:14:51 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:14:38 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.293	130	164690	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	543332	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	279424	10.000	ng	0.00
80) Bromochloromethane(sim)	5.296	130	170376	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	543332	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	279424	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.303	95	385539	9.753	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.50%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.519	85	87650	2.400	ppbv	100
6) Vinyl Chloride	1.725	62	40446	2.321	ppbv	98
12) Acetone	3.244	43	105590	2.454	ppbv	99
13) Trichlorofluoromethane	2.197	101	104799	2.432	ppbv	99
16) 1,1-Dichloroethene	2.629	61	73216	2.443	ppbv	98
17) Methylene Chloride	3.190	49	71789	2.453	ppbv	99
21) Trichlorotrifluoroethane	2.690	101	72453	2.416	ppbv	99
26) Cis-1,2-Dichloroethene	4.982	61	73797	2.526	ppbv	98
32) 1,1,1-Trichloroethane	5.755	97	92427	2.459	ppbv	98
33) Benzene	6.307	78	94262	2.406	ppbv	98
34) Carbon Tetrachloride	5.668	117	100048	2.449	ppbv	100
39) Trichloroethene	7.177	130	54760	2.461	ppbv	98
48) Toluene	9.046	91	122266	2.430	ppbv	100
52) Tetrachloroethene	9.522	166	76659	2.457	ppbv	99
55) Chlorobenzene	10.850	112	107431	2.399	ppbv	98
56) Ethylbenzene	10.932	91	165919	2.400	ppbv	99
57) m,p-Xylene	11.117	91	259930	4.918	ppbv	100
61) o-Xylene	11.618	91	134911	2.358	ppbv	99
71) 1,3-Dichlorobenzene	13.548	146	101918	2.456	ppbv	99
72) 1,4-Dichlorobenzene	13.646	146	96123	2.371	ppbv	100
75) 1,2-Dichlorobenzene	14.035	146	77890	2.407	ppbv	99
77) 1,2,4-Trichlorobenzene	15.204	180	19817	1.819	ppbv	96
82] Vinyl Chloride(sim)	1.721	62	44814	2.275	ppbv	100
86] Benzene(sim)	6.310	78	104784	2.232	ppbv	100
87] Carbon Tetrachloride(sim)	5.668	117	99889	2.347	ppbv	99
88] 1,1-Dichloroethene(sim)	2.625	61	78612	2.255	ppbv	100
92] Cis-1,2-Dichloroethene...	4.985	61	76293	2.325	ppbv	98
98] Trichloroethene(sim)	7.180	130	57928	2.368	ppbv	100
104] Tetrachloroethene(sim)	9.525	166	79686	2.386	ppbv	100
108] Ethylbenzene(sim)	10.935	91	182873	2.249	ppb	100
109] m,p-Xylene(sim)	11.117	91	260116	4.749	ppbv	100
116] 1,4-Dichlorobenzene(sim)	13.649	146	107480	2.267	ppbv	100

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_09.D
Acq On : 22 Apr 2021 2:49 am
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Apr 22 08:14:51 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:14:38 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_10.D
 Acq On : 22 Apr 2021 3:21 am
 Operator : Keith
 Client ID : ICAL 5
 Lab ID : 5.0
 ALS Vial : 54 Sample Multiplier: 1

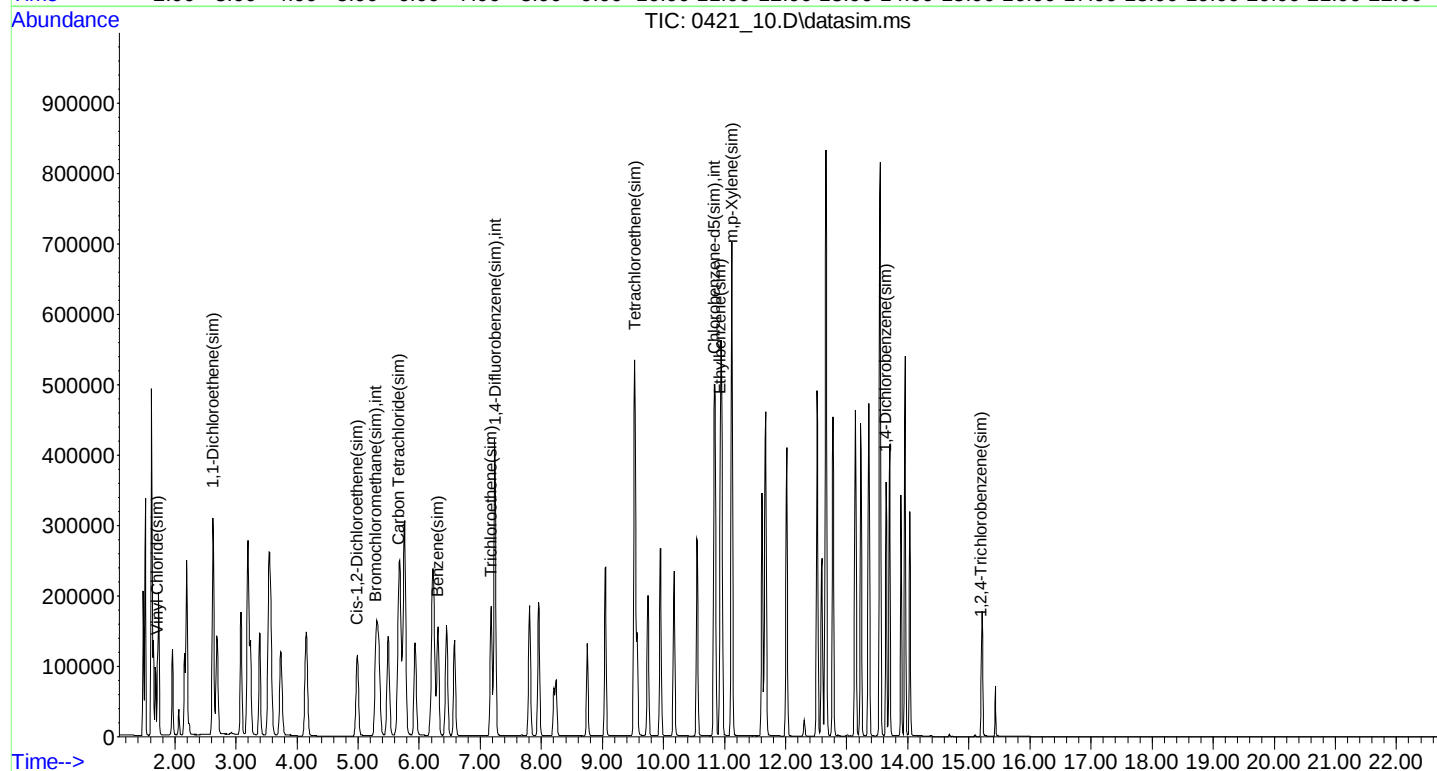
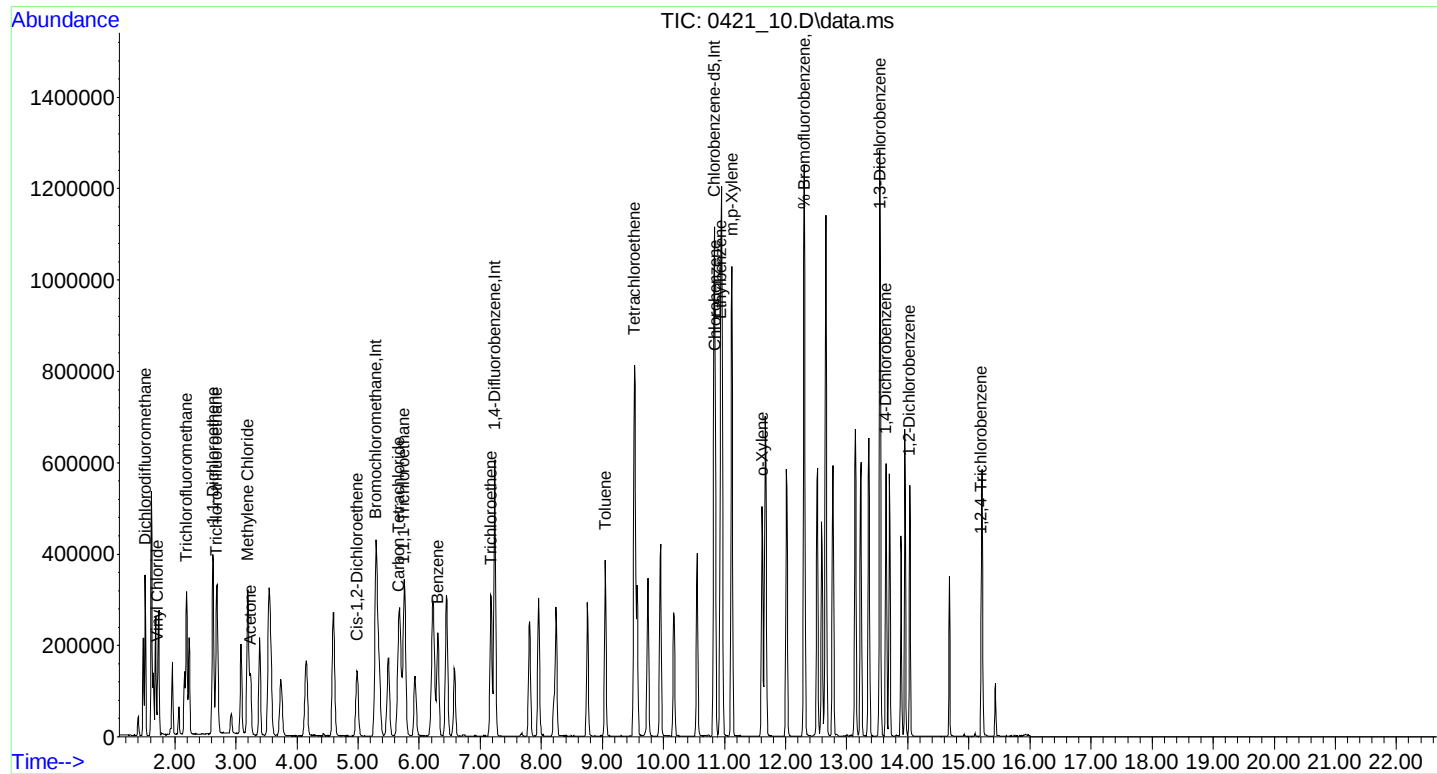
Quant Time: Apr 22 08:14:30 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:14:17 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.289	130	161930	10.000	ng	-0.01
36) 1,4-Difluorobenzene	7.240	114	535126	10.000	ng	0.00
53) Chlorobenzene-d5	10.831	82	270891	10.000	ng	0.00
80) Bromochloromethane(sim)	5.291	130	167130	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.240	114	535126	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.831	82	270891	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.304	95	378927	9.860	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.60%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.513	85	212704	5.922	ppbv	100
6) Vinyl Chloride	1.718	62	90585	5.286	ppbv	99
12) Acetone	3.238	43	215705	5.099	ppbv	100
13) Trichlorofluoromethane	2.191	101	225824	5.329	ppbv	100
16) 1,1-Dichloroethene	2.622	61	157751	5.354	ppbv	99
17) Methylene Chloride	3.190	49	153868	5.347	ppbv	99
21) Trichlorotrifluoroethane	2.684	101	154679	5.246	ppbv	100
26) Cis-1,2-Dichloroethene	4.982	61	152285	5.302	ppbv	98
32) 1,1,1-Trichloroethane	5.750	97	196946	5.329	ppbv	99
33) Benzene	6.302	78	201951	5.242	ppbv	100
34) Carbon Tetrachloride	5.663	117	216746	5.395	ppbv	99
39) Trichloroethene	7.172	130	117267	5.350	ppbv	99
48) Toluene	9.048	91	257566	5.198	ppbv	100
52) Tetrachloroethene	9.525	166	162008	5.271	ppbv	100
55) Chlorobenzene	10.845	112	226810	5.225	ppbv	99
56) Ethylbenzene	10.934	91	352335	5.257	ppbv	99
57) m,p-Xylene	11.120	91	551500	10.762	ppbv	99
61) o-Xylene	11.614	91	288056	5.193	ppbv	99
71) 1,3-Dichlorobenzene	13.544	146	216073	5.371	ppbv	100
72) 1,4-Dichlorobenzene	13.641	146	204298	5.198	ppbv	100
75) 1,2-Dichlorobenzene	14.031	146	160533	5.116	ppbv	99
77) 1,2,4-Trichlorobenzene	15.204	180	46121	3.879	ppbv	96
82] Vinyl Chloride(sim)	1.714	62	97948	5.068	ppbv	100
86] Benzene(sim)	6.305	78	221582	4.811	ppbv	100
87] Carbon Tetrachloride(sim)	5.663	117	216746	5.192	ppbv	99
88] 1,1-Dichloroethene(sim)	2.625	61	168282	4.922	ppbv	100
92] Cis-1,2-Dichloroethene...	4.985	61	172741	5.367	ppbv	98
98] Trichloroethene(sim)	7.175	130	123081	5.109	ppbv	100
104] Tetrachloroethene(sim)	9.528	166	168040	5.108	ppbv	100
108] Ethylbenzene(sim)	10.930	91	386434	4.903	ppb	100
109] m,p-Xylene(sim)	11.120	91	551500	10.387	ppbv	99
116] 1,4-Dichlorobenzene(sim)	13.644	146	230388	5.012	ppbv	99

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_10.D
Acq On : 22 Apr 2021 3:21 am
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 54 Sample Multiplier: 1

Quant Time: Apr 22 08:14:30 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:14:17 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_11.D
 Acq On : 22 Apr 2021 3:57 am
 Operator : Keith
 Client ID : ICAL 25
 Lab ID : 25
 ALS Vial : 55 Sample Multiplier: 1

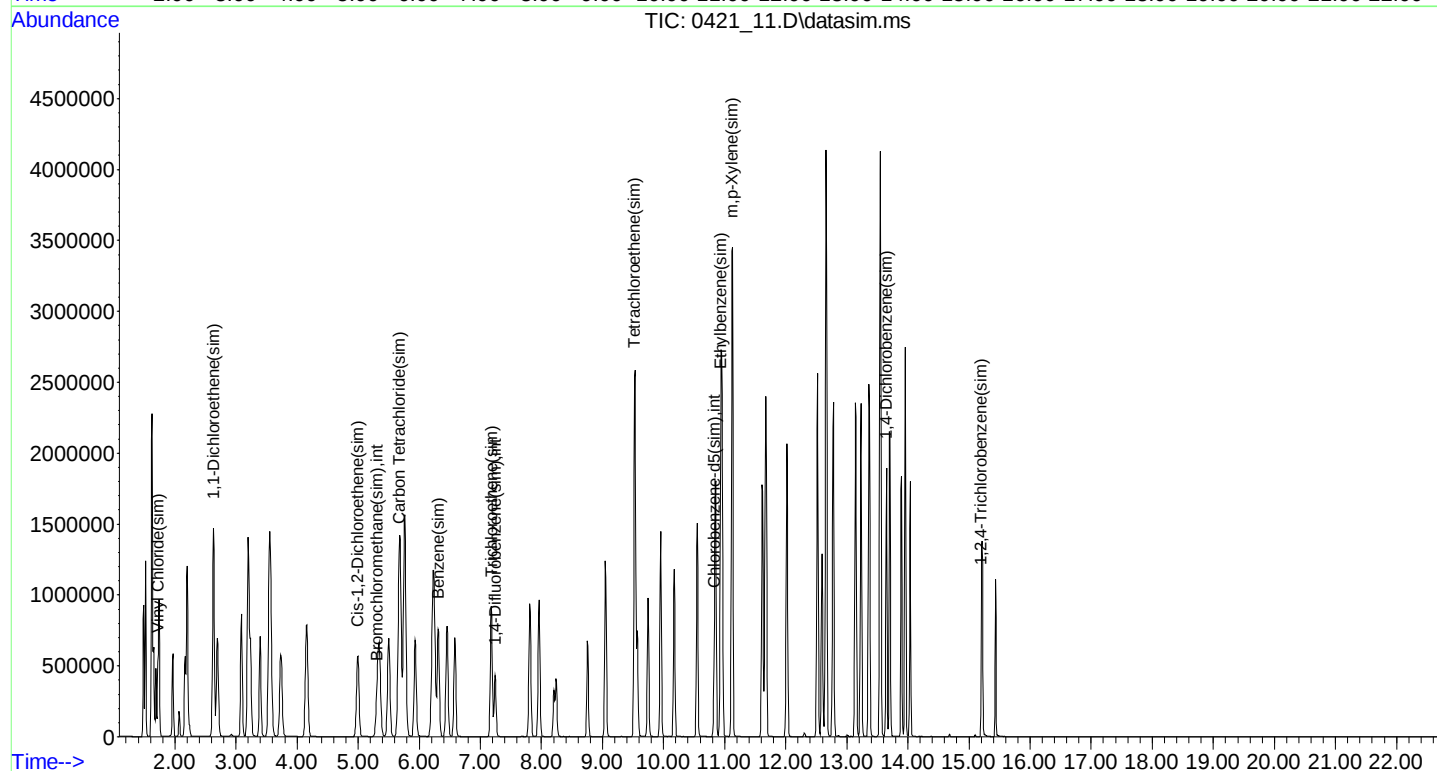
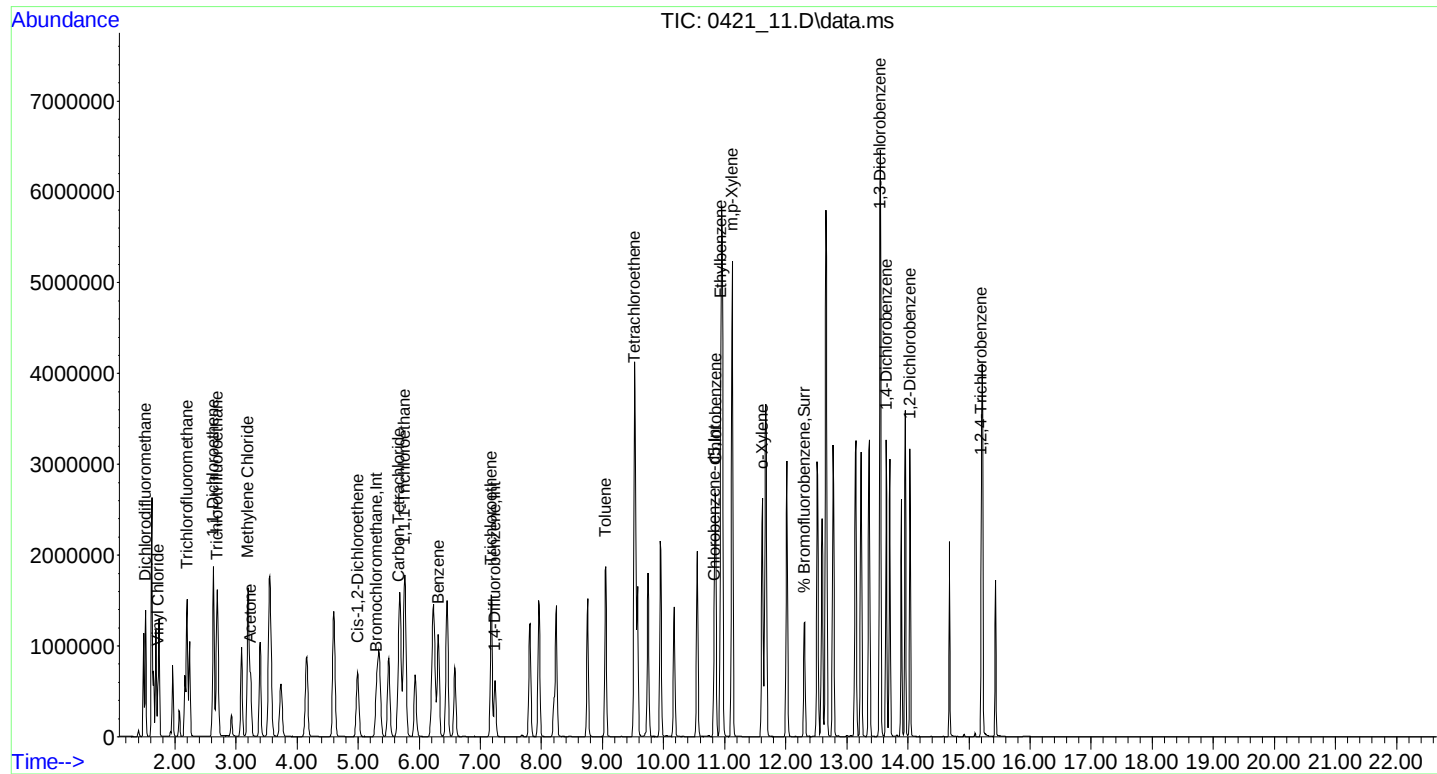
Quant Time: Apr 22 08:14:06 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:13:53 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.301	130	164069	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	544326	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	276989	10.000	ng	0.00
80) Bromochloromethane(sim)	5.304	130	170161	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	544326	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	276989	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.303	95	403415	10.358	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.60%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.519	85	855653	23.513	ppbv	100
6) Vinyl Chloride	1.725	62	438277	25.244	ppbv	99
12) Acetone	3.238	43	1089909	25.430	ppbv	99
13) Trichlorofluoromethane	2.198	101	1111497	25.886	ppbv	100
16) 1,1-Dichloroethene	2.629	61	762387	25.536	ppbv	99
17) Methylene Chloride	3.196	49	757867	25.991	ppbv	99
21) Trichlorotrifluoroethane	2.690	101	768739	25.733	ppbv	100
26) Cis-1,2-Dichloroethene	4.992	61	720792	24.770	ppbv	98
32) 1,1,1-Trichloroethane	5.762	97	981400	26.207	ppbv	99
33) Benzene	6.314	78	1018352	26.088	ppbv	100
34) Carbon Tetrachloride	5.668	117	1085956	26.678	ppbv	100
39) Trichloroethene	7.177	130	582773	26.140	ppbv	99
48) Toluene	9.053	91	1318331	26.157	ppbv	100
52) Tetrachloroethene	9.523	166	807801	25.840	ppbv	99
55) Chlorobenzene	10.850	112	1173442	26.436	ppbv	100
56) Ethylbenzene	10.939	91	1810649	26.419	ppbv	100
57) m,p-Xylene	11.124	91	2825540	53.926	ppbv	100
61) o-Xylene	11.618	91	1477421	26.046	ppbv	99
71) 1,3-Dichlorobenzene	13.548	146	1120908	27.251	ppbv	99
72) 1,4-Dichlorobenzene	13.646	146	1098571	27.333	ppbv	100
75) 1,2-Dichlorobenzene	14.035	146	898683	28.011	ppbv	100
77) 1,2,4-Trichlorobenzene	15.202	180	483531	30.660	ppbv	99
82] Vinyl Chloride(sim)	1.721	62	472304	24.003	ppbv	100
86] Benzene(sim)	6.310	78	1114249	23.762	ppbv	99
87] Carbon Tetrachloride(sim)	5.668	117	1085956	25.550	ppbv	100
88] 1,1-Dichloroethene(sim)	2.632	61	818809	23.521	ppbv	99
92] Cis-1,2-Dichloroethene...	4.995	61	871550	26.596	ppbv	99
98] Trichloroethene(sim)	7.180	130	615978	25.138	ppbv	100
104] Tetrachloroethene(sim)	9.525	166	835538	24.969	ppbv	100
108] Ethylbenzene(sim)	10.935	91	1969525	24.438	ppb	100
109] m,p-Xylene(sim)	11.124	91	2826802	52.069	ppbv	100
116] 1,4-Dichlorobenzene(sim)	13.649	146	1222058	26.002	ppbv	100

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_11.D
Acq On : 22 Apr 2021 3:57 am
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 55 Sample Multiplier: 1

Quant Time: Apr 22 08:14:06 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:13:53 2021
Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_12.D
 Acq On : 22 Apr 2021 4:37 am
 Operator : Keith
 Client ID : ICAL 40
 Lab ID : 40
 ALS Vial : 56 Sample Multiplier: 1

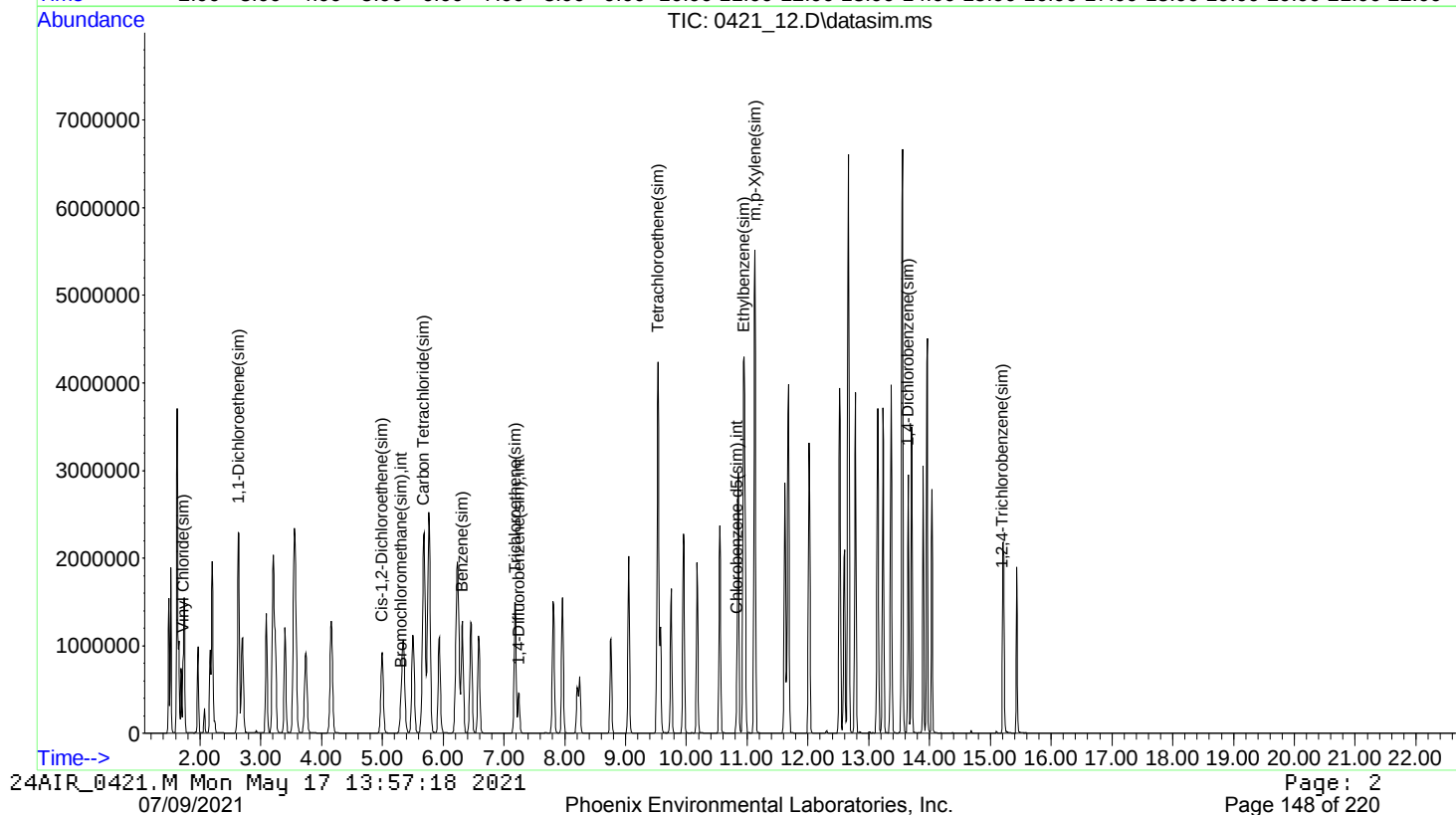
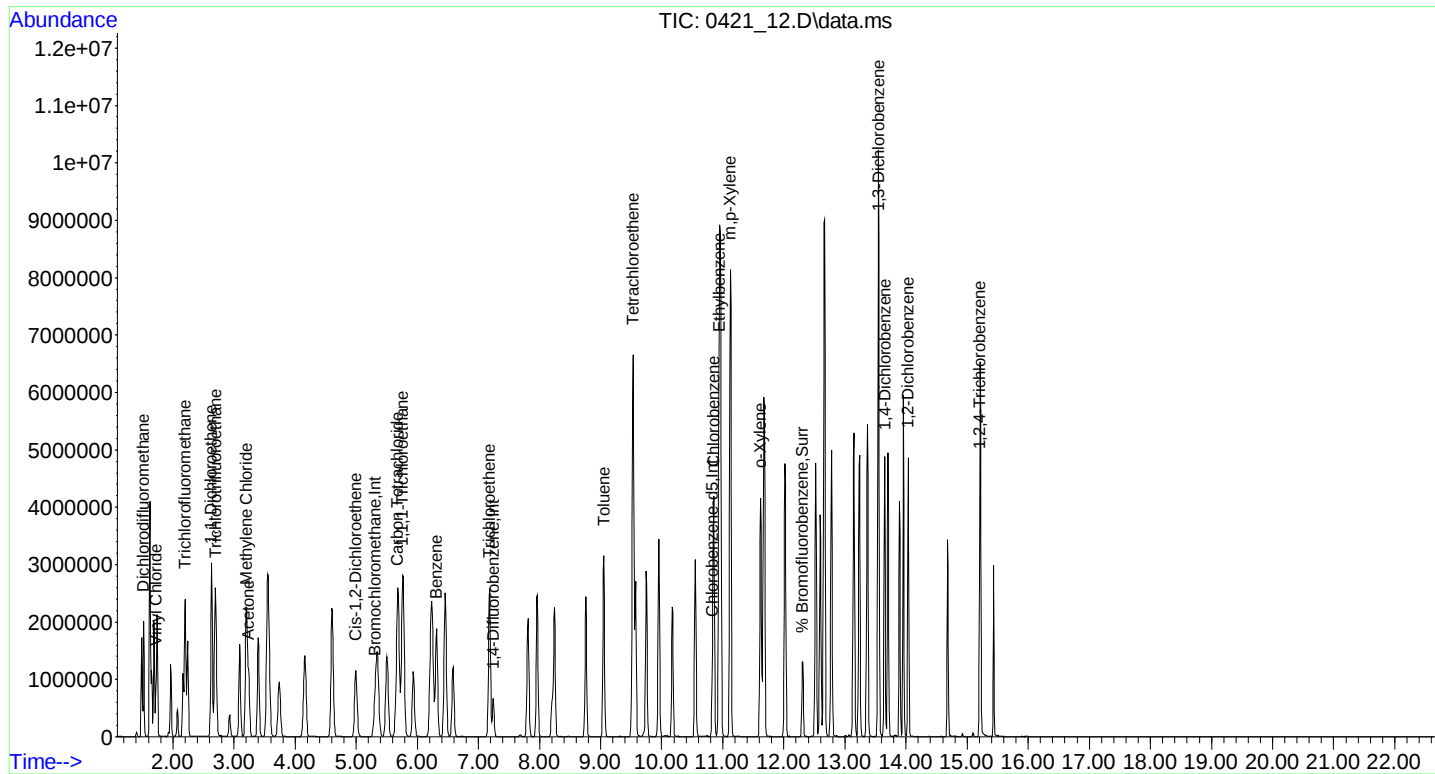
Quant Time: Apr 22 08:13:41 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:13:28 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.308	130	176247	10.000	ng	0.02
36) 1,4-Difluorobenzene	7.245	114	586042	10.000	ng	0.00
53) Chlorobenzene-d5	10.830	82	297788	10.000	ng	0.00
80) Bromochloromethane(sim)	5.304	130	181331	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.245	114	586042	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.830	82	297788	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.303	95	416571	9.923	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	99.20%
Target Compounds						
						Qvalue
3) Dichlorodifluoromethane	1.519	85	1233160	31.546	ppbv	100
6) Vinyl Chloride	1.725	62	714463	38.308	ppbv	100
12) Acetone	3.238	43	1749187	37.992	ppbv	100
13) Trichlorofluoromethane	2.198	101	1781271	38.619	ppbv	99
16) 1,1-Dichloroethene	2.629	61	1239874	38.660	ppbv	99
17) Methylene Chloride	3.197	49	1095772	34.983	ppbv	99
21) Trichlorotrifluoroethane	2.697	101	1246486	38.842	ppbv	100
26) Cis-1,2-Dichloroethene	4.992	61	1124488	35.973	ppbv	99
32) 1,1,1-Trichloroethane	5.762	97	1583690	39.368	ppbv	100
33) Benzene	6.314	78	1677717	40.010	ppbv	99
34) Carbon Tetrachloride	5.676	117	1752432	40.076	ppbv	100
39) Trichloroethene	7.184	130	960935	40.034	ppbv	99
48) Toluene	9.054	91	2153954	39.695	ppbv	99
52) Tetrachloroethene	9.530	166	1308170	38.868	ppbv	99
55) Chlorobenzene	10.850	112	1917322	40.177	ppbv	100
56) Ethylbenzene	10.939	91	2887510	39.188	ppbv	100
57) m,p-Xylene	11.125	91	4572501	81.171	ppbv	99
61) o-Xylene	11.619	91	2449257	40.163	ppbv	99
71) 1,3-Dichlorobenzene	13.555	146	1801281	40.734	ppbv	99
72) 1,4-Dichlorobenzene	13.653	146	1786607	41.347	ppbv	100
75) 1,2-Dichlorobenzene	14.036	146	1465800	42.497	ppbv	100
82] Vinyl Chloride(sim)	1.721	62	771123	36.775	ppbv	100
86] Benzene(sim)	6.317	78	1842900	36.881	ppbv	100
87] Carbon Tetrachloride(sim)	5.676	117	1752432	38.690	ppbv	100
88] 1,1-Dichloroethene(sim)	2.632	61	1330631	35.869	ppbv	100
92] Cis-1,2-Dichloroethene...	4.995	61	1391089	39.835	ppbv	99
98] Trichloroethene(sim)	7.187	130	1016674	38.536	ppbv	100
104] Tetrachloroethene(sim)	9.533	166	1352004	37.527	ppbv	100
108] Ethylbenzene(sim)	10.942	91	3139909	36.239	ppb	100
109] m,p-Xylene(sim)	11.125	91	4575080	78.385	ppbv	99
116] 1,4-Dichlorobenzene(sim)	13.649	146	1975492	39.097	ppbv	99

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_12.D
Acq On : 22 Apr 2021 4:37 am
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Apr 22 08:13:41 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:13:28 2021
Response via : Initial Calibration



Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_14.D
 Acq On : 22 Apr 2021 5:40 am
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 58 Sample Multiplier: 1

Quant Time: Apr 22 08:23:52 2021
 Quant Title :
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.294	130	175257	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.232	114	578680	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	293034	10.000	ng	0.00
80) Bromochloromethane(sim)	5.289	130	181886	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.232	114	578680	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	293034	10.000	ng	0.00

System Monitoring Compounds

62) % Bromofluorobenzene 12.303 95 414682 10.090 ppbv 0.00
 Spiked Amount 10.000 Range 70 - 130 Recovery = 100.90%

Target Compounds

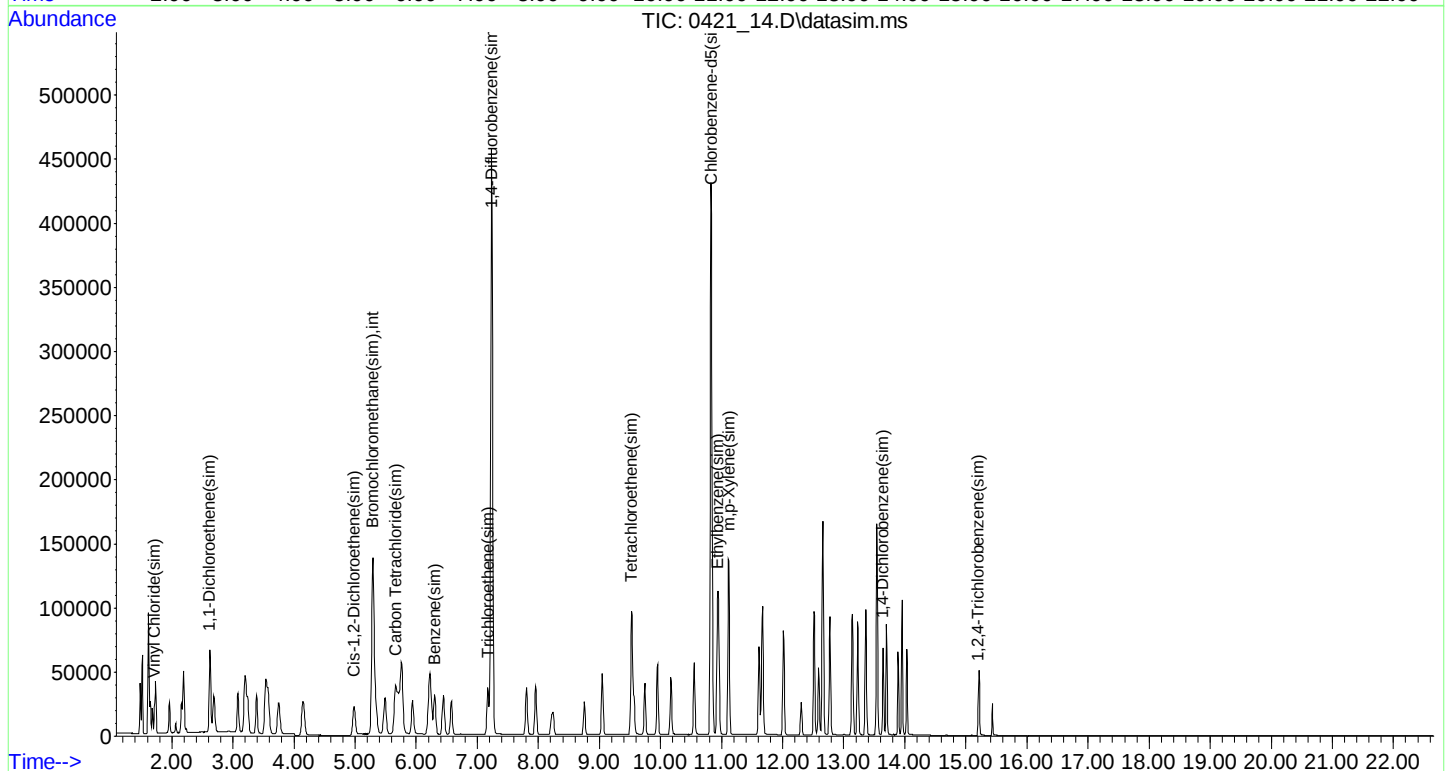
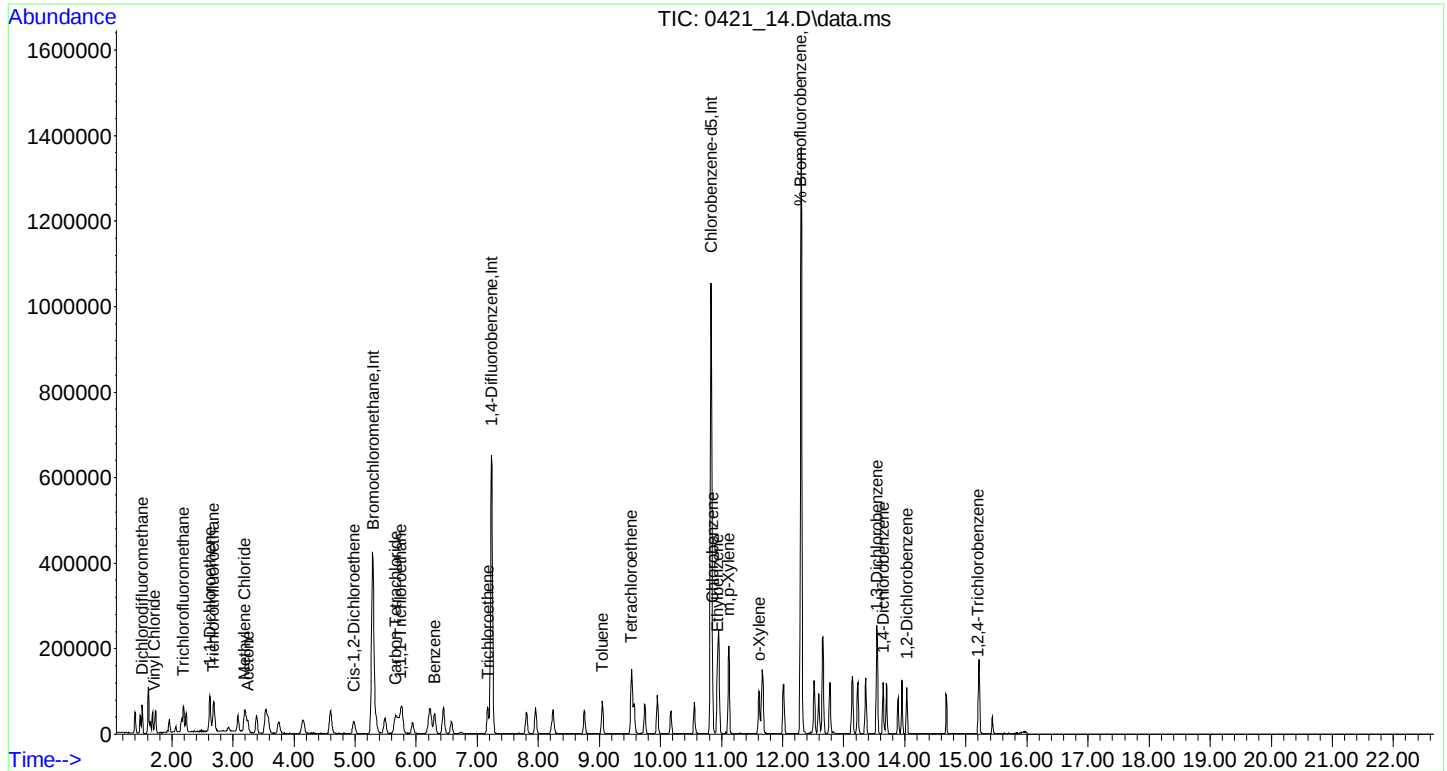
						Qvalue
3) Dichlorodifluoromethane	1.513	85	40135	1.033	ppbv	100
6) Vinyl Chloride	1.718	62	17890	0.965	ppbv	99
12) Acetone	3.245	43	43918	0.959	ppbv	97
13) Trichlorofluoromethane	2.191	101	44160	0.963	ppbv	96
16) 1,1-Dichloroethene	2.622	61	31990	1.003	ppbv	96
17) Methylene Chloride	3.190	49	31607	1.015	ppbv	96
21) Trichlorotrifluoroethane	2.684	101	30365	0.952	ppbv	98
26) Cis-1,2-Dichloroethene	4.982	61	30989	0.997	ppbv	94
32) 1,1,1-Trichloroethane	5.748	97	39040	0.976	ppbv	96
33) Benzene	6.300	78	41957	1.006	ppbv	94
34) Carbon Tetrachloride	5.661	117	41719	0.959	ppbv	97
39) Trichloroethene	7.177	130	23286	0.982	ppbv	89
48) Toluene	9.046	91	52011	0.971	ppbv	97
52) Tetrachloroethene	9.523	166	32697	0.984	ppbv	99
55) Chlorobenzene	10.850	112	45412	0.967	ppbv#	67
56) Ethylbenzene	10.932	91	71364	0.984	ppbv	89
57) m, p-Xylene	11.117	91	111372	2.009	ppbv	99
61) o-Xylene	11.611	91	58544	0.976	ppbv	97
71) 1,3-Dichlorobenzene	13.549	146	43697	1.004	ppbv	95
72) 1,4-Dichlorobenzene	13.646	146	42077	0.990	ppbv	97
75) 1,2-Dichlorobenzene	14.035	146	33355	0.983	ppbv	97
77) 1,2,4-Trichlorobenzene	15.204	180	12706	1.206	ppbv#	75
82] Vinyl Chloride(sim)	1.714	62	19747	0.939	ppbv	98
86] Benzene(sim)	6.303	78	45215	0.902	ppbv	99
87] Carbon Tetrachloride(sim)	5.661	117	41662	0.917	ppbv#	95
88] 1,1-Dichloroethene(sim)	2.618	61	33793	0.908	ppbv	99
92] Cis-1,2-Dichloroethene...	4.980	61	33522	0.957	ppbv	98
98] Trichloroethene(sim)	7.173	130	24426	0.938	ppbv	100
104] Tetrachloroethene(sim)	9.526	166	33454	0.940	ppbv	100
108] Ethylbenzene(sim)	10.935	91	78084	0.916	ppb	100
109] m, p-Xylene(sim)	11.117	91	111372	1.939	ppbv	98
116] 1,4-Dichlorobenzene(sim)	13.642	146	46593	0.937	ppbv	98
121] 1,2,4-Trichlorobenzene...	15.204	180	12706	1.393	ppbv#	73

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

Quantitation Report (RF) (No Status)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_14.D
 Acq On : 22 Apr 2021 5:40 am
 Operator : Keith
 Client ID : ICAL 1
 Lab ID : 1ppb
 ALS Vial : 58 Sample Multiplier: 1

Quant Time: Apr 22 08:23:52 2021
 Quant Title :
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration



Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2021\CHEM24\04APR\21A\
 Data File : 0421_15.D
 Acq On : 22 Apr 2021 6:12 am
 Operator : Keith
 Client ID : ICAL 10
 Lab ID : 10ppb
 ALS Vial : 59 Sample Multiplier: 1

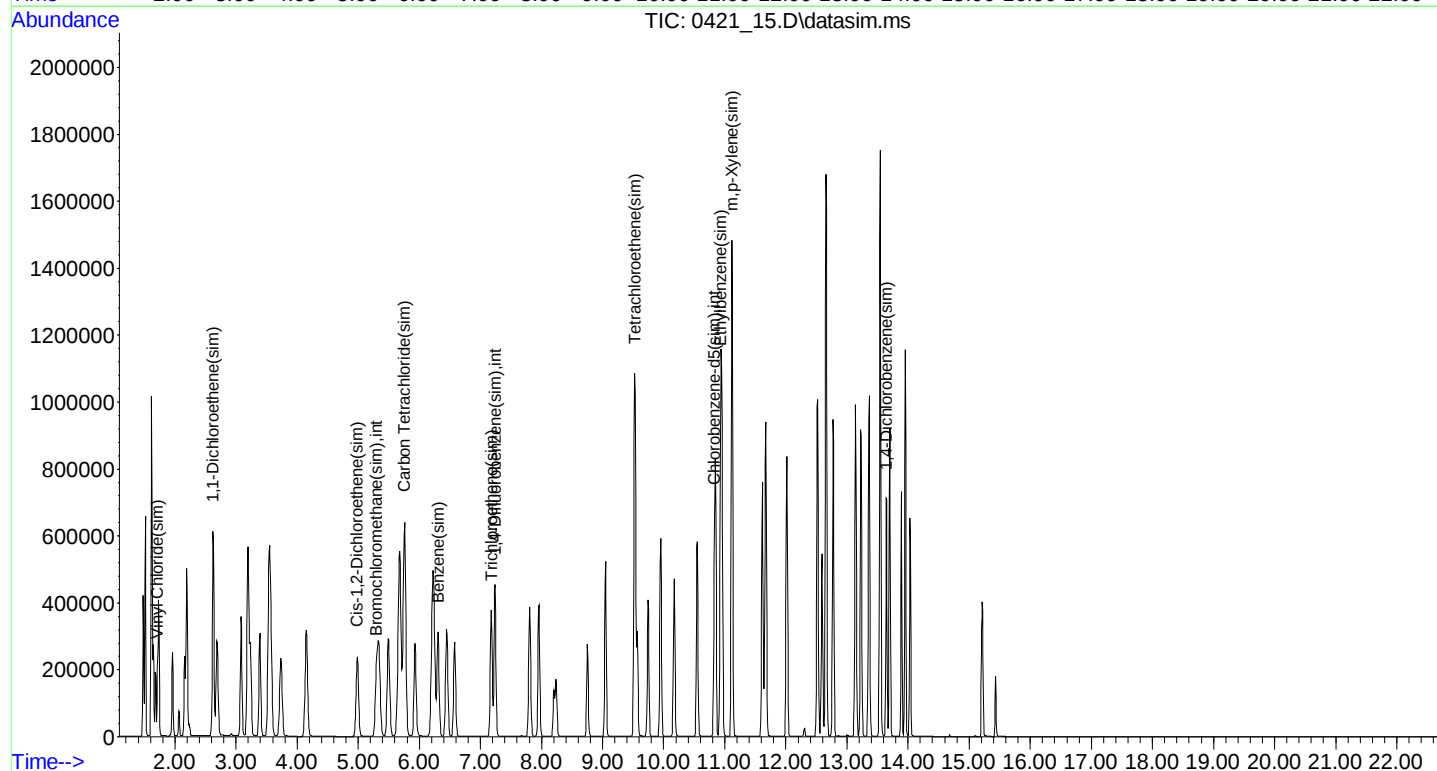
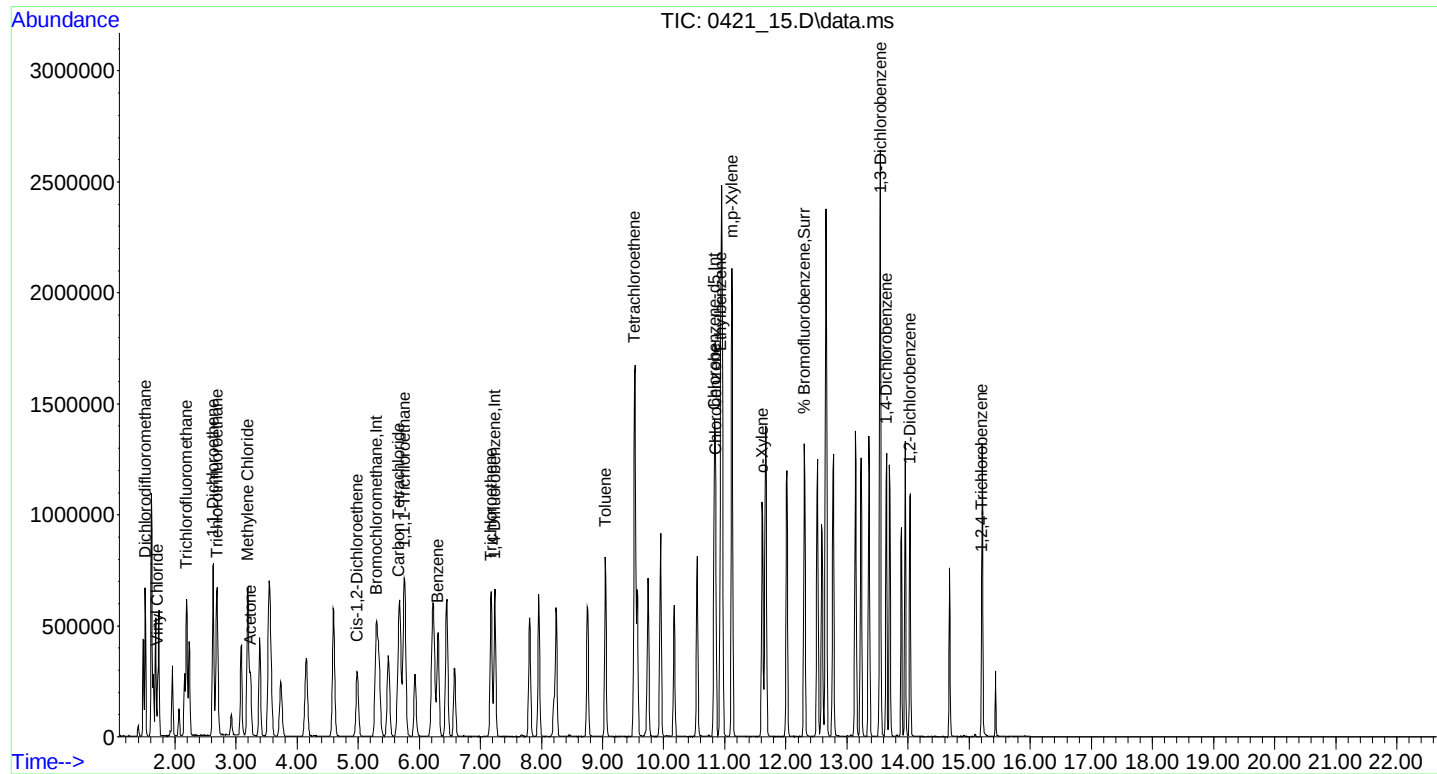
Quant Time: Apr 22 08:24:12 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.293	130	175465	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.238	114	578235	10.000	ng	0.00
53) Chlorobenzene-d5	10.829	82	289458	10.000	ng	0.00
80) Bromochloromethane(sim)	5.296	130	181311	10.000	ng	# 0.00
95) 1,4-Difluorobenzene(sim)	7.238	114	578235	10.000	ng	0.00
105) Chlorobenzene-d5(sim)	10.829	82	289458	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.302	95	406472	10.012	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.10%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.512	85	412558	10.601	ppbv	99
6) Vinyl Chloride	1.718	62	183482	9.882	ppbv	98
12) Acetone	3.237	43	449798	9.813	ppbv	98
13) Trichlorofluoromethane	2.191	101	455204	9.913	ppbv	96
16) 1,1-Dichloroethene	2.622	61	309444	9.692	ppbv	97
17) Methylene Chloride	3.190	49	318199	10.204	ppbv	95
21) Trichlorotrifluoroethane	2.690	101	315332	9.870	ppbv	97
26) Cis-1,2-Dichloroethene	4.982	61	319019	10.251	ppbv	96
32) 1,1,1-Trichloroethane	5.755	97	403205	10.068	ppbv	98
33) Benzene	6.307	78	421410	10.095	ppbv	92
34) Carbon Tetrachloride	5.668	117	442014	10.153	ppbv	96
39) Trichloroethene	7.177	130	241701	10.206	ppbv	92
48) Toluene	9.046	91	548106	10.237	ppbv	97
52) Tetrachloroethene	9.522	166	338718	10.200	ppbv	98
55) Chlorobenzene	10.850	112	484152	10.437	ppbv#	58
56) Ethylbenzene	10.932	91	744207	10.391	ppbv	90
57) m, p-Xylene	11.117	91	1164899	21.274	ppbv	100
61) o-Xylene	11.611	91	604137	10.192	ppbv	98
71) 1,3-Dichlorobenzene	13.548	146	452202	10.520	ppbv	95
72) 1,4-Dichlorobenzene	13.646	146	435803	10.376	ppbv	97
75) 1,2-Dichlorobenzene	14.035	146	350303	10.448	ppbv	98
77) 1,2,4-Trichlorobenzene	15.202	180	99799	8.175	ppbv#	75
82] Vinyl Chloride(sim)	1.714	62	199905	9.535	ppbv	98
86] Benzene(sim)	6.310	78	463428	9.275	ppbv	99
87] Carbon Tetrachloride(sim)	5.755	117	46653	1.030	ppbv	94
88] 1,1-Dichloroethene(sim)	2.625	61	338377	9.123	ppbv	99
92] Cis-1,2-Dichloroethene...	4.985	61	365357	10.463	ppbv	98
98] Trichloroethene(sim)	7.180	130	256486	9.853	ppbv	100
104] Tetrachloroethene(sim)	9.525	166	350024	9.847	ppbv	100
108] Ethylbenzene(sim)	10.935	91	813799	9.663	ppb	100
109] m, p-Xylene(sim)	11.117	91	1166919	20.568	ppbv	99
116] 1,4-Dichlorobenzene(sim)	13.649	146	483372	9.842	ppbv	98

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

Data Path : H:\AIR2021\CHEM24\04APR\21A\
Data File : 0421_15.D
Acq On : 22 Apr 2021 6:12 am
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb
ALS Vial : 59 Sample Multiplier: 1

Quant Time: Apr 22 08:24:12 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration



7A
AIR CONTINUING CALIBRATION CHECK

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCI26499

Instrument: CHEM24 Calibration Date: 05/07/21 Time: 14:56

Lab File Id: 0507_03.D Init. Calib. Date(s): 04/21/21 04/22/21

Heated Purge (Y/N): Y Init. Calib. Times: 22:47 06:12

GC Column: RTX-VMS Method File: 24AIR_0421.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	2.218	2.653		-19.6	30
Vinyl Chloride	1.058	1.066		-0.8	30
Acetone	2.612	3.309		-26.7	30
Trichlorofluoromethane	2.617	3.173		-21.2	30
1,1-Dichloroethene	1.820	1.998		-9.8	30
Methylene Chloride	1.777	2.036		-14.6	30
Trichlorotrifluoroethane	1.821	2.015		-10.7	30
Cis-1,2-Dichloroethene	1.774	1.972		-11.2	30
1,1,1-Trichloroethane	2.282	2.531		-10.9	30
Benzene	2.379	2.337		1.8	30
Carbon Tetrachloride	2.481	2.816		-13.5	30
Trichloroethene	0.410	0.415		-1.2	30
Toluene	0.926	0.888		4.1	30
Tetrachloroethene	0.574	0.590		-2.8	30
Chlorobenzene	1.603	1.570		2.1	30
Ethylbenzene	2.474	2.450		1.0	30
m,p-Xylene	1.892	1.501		20.7	30
o-Xylene	2.048	1.990		2.8	30
1,3-Dichlorobenzene	1.485	1.466		1.3	30
1,4-Dichlorobenzene	1.451	1.442		0.6	30
1,2-Dichlorobenzene	1.158	1.163		-0.4	30
1,2,4-Trichlorobenzene qfi	1.000	1.23		-23.0 #	20
Vinyl Chloride(sim)	1.156	1.124		2.8	30
Benzene(sim)	2.756	2.470		10.4	30
Carbon Tetrachloride(sim)	2.498	2.684		-7.4	30
1,1-Dichloroethene(sim)	2.046	2.099		-2.6	30
Cis-1,2-Dichloroethene(sim)	1.926	2.004		-4.0	30
Trichloroethene(sim)	0.450	0.442		1.8	30
Tetrachloroethene(sim)	0.615	0.601		2.3	30
Ethylbenzene(sim)	2.910	2.730		6.2	30
m,p-Xylene(sim)	1.960	1.877		4.2	30
1,4-Dichlorobenzene(sim)	1.697	1.610		5.1	30
1,2,4-Trichlorobenzene(sim) qfi	1.000	1.41		-41.0 #	20
% Bromofluorobenzene	1.403	1.410		-0.5	30

(*) Recommended RRF not met (+) %D exceeds criteria % (#) %D exceeds (maximum) criteria

%D: 20% of target compounds are allowed to be above criteria %, but must be less than the (maximum) %D

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_03.D
 Acq On : 7 May 2021 2:56 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 16:26:12 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 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%
1 Int	Bromochloromethane	1.000	1.000	0.0	77
3	Dichlorodifluoromethane	2.218	2.653	-19.6	
6	Vinyl Chloride	1.058	1.066	-0.8	
12	Acetone	2.612	3.309	-26.7	
13	Trichlorofluoromethane	2.617	3.173	-21.2	
16	1,1-Dichloroethene	1.820	1.998	-9.8	
17	Methylene Chloride	1.777	2.036	-14.6	
21	Trichlorotrifluoroethane	1.821	2.015	-10.7	
26	Cis-1,2-Dichloroethene	1.774	1.972	-11.2	
32	1,1,1-Trichloroethane	2.282	2.531	-10.9	
33	Benzene	2.379	2.337	1.8	
34	Carbon Tetrachloride	2.481	2.816	-13.5	
36 Int	1,4-Difluorobenzene	1.000	1.000	0.0	75
39	Trichloroethene	0.410	0.415	-1.2	
48	Toluene	0.926	0.888	4.1	
52	Tetrachloroethene	0.574	0.590	-2.8	
53 Int	Chlorobenzene-d5	1.000	1.000	0.0	78
55	Chlorobenzene	1.603	1.570	2.1	
56	Ethylbenzene	2.474	2.450	1.0	
57	m,p-Xylene	1.892	1.501	20.7	
61	o-Xylene	2.048	1.990	2.8	
62 Surr	% Bromofluorobenzene	1.403	1.410	-0.5	
71	1,3-Dichlorobenzene	1.485	1.466	1.3	
72	1,4-Dichlorobenzene	1.451	1.442	0.6	
75	1,2-Dichlorobenzene	1.158	1.163	-0.4	
77 qf	1,2,4-Trichlorobenzene	1.000	1.235	-23.5	
80 int	Bromochloromethane(sim)	1.000	1.000	0.0	77
82	Vinyl Chloride(sim)	1.156	1.124	2.8	
86	Benzene(sim)	2.756	2.470	10.4	
87	Carbon Tetrachloride(sim)	2.498	2.684	-7.4	
88	1,1-Dichloroethene(sim)	2.046	2.099	-2.6	
92	Cis-1,2-Dichloroethene(sim)	1.926	2.004	-4.0	
95 int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	75
98	Trichloroethene(sim)	0.450	0.442	1.8	
104	Tetrachloroethene(sim)	0.615	0.601	2.3	
105 int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	78
108	Ethylbenzene(sim)	2.910	2.730	6.2	
109	m,p-Xylene(sim)	1.960	1.877	4.2	
116	1,4-Dichlorobenzene(sim)	1.697	1.610	5.1	
121 qf	1,2,4-Trichlorobenzene(sim)	1.000	1.408	-40.8	

(#)=Out of Range l=linear, lf=liner(0,0), q=quadratic, qf=quadratic(0,0)
 Laboratory Warning Limits Out = 0

Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_03.D
 Acq On : 7 May 2021 2:56 pm
 Operator : Keith
 Client ID : BFB TUNE - CCAL 1
 Lab ID : 1ppb cc - 1ppb cc
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 16:26:12 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.274	130	134080	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.220	114	434324	10.000	ng	-0.02
53) Chlorobenzene-d5	10.818	82	228458	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.277	130	140703	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.220	114	434324	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.818	82	228458	10.000	ng	-0.01

System Monitoring Compounds

62) % Bromofluorobenzene	12.291	95	322161	10.055	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.50%

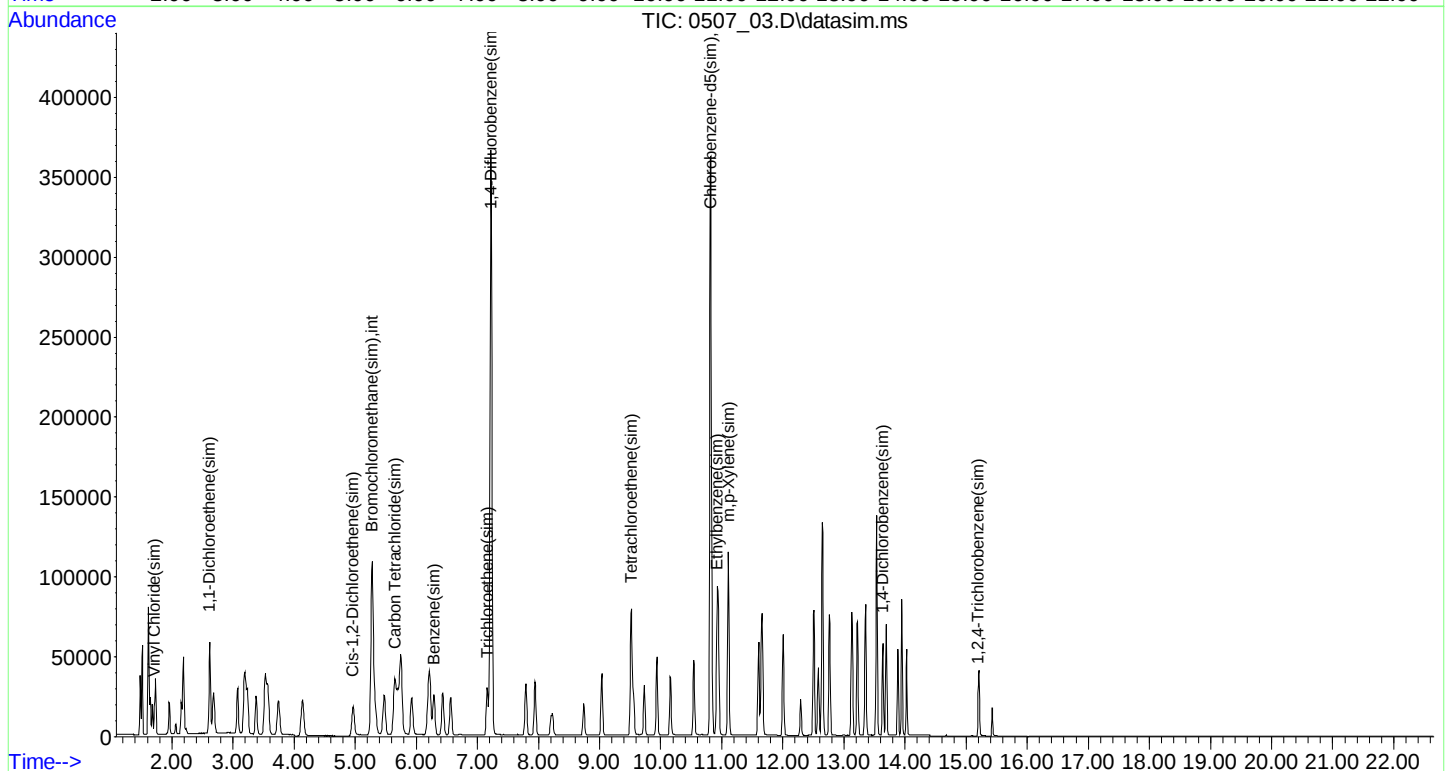
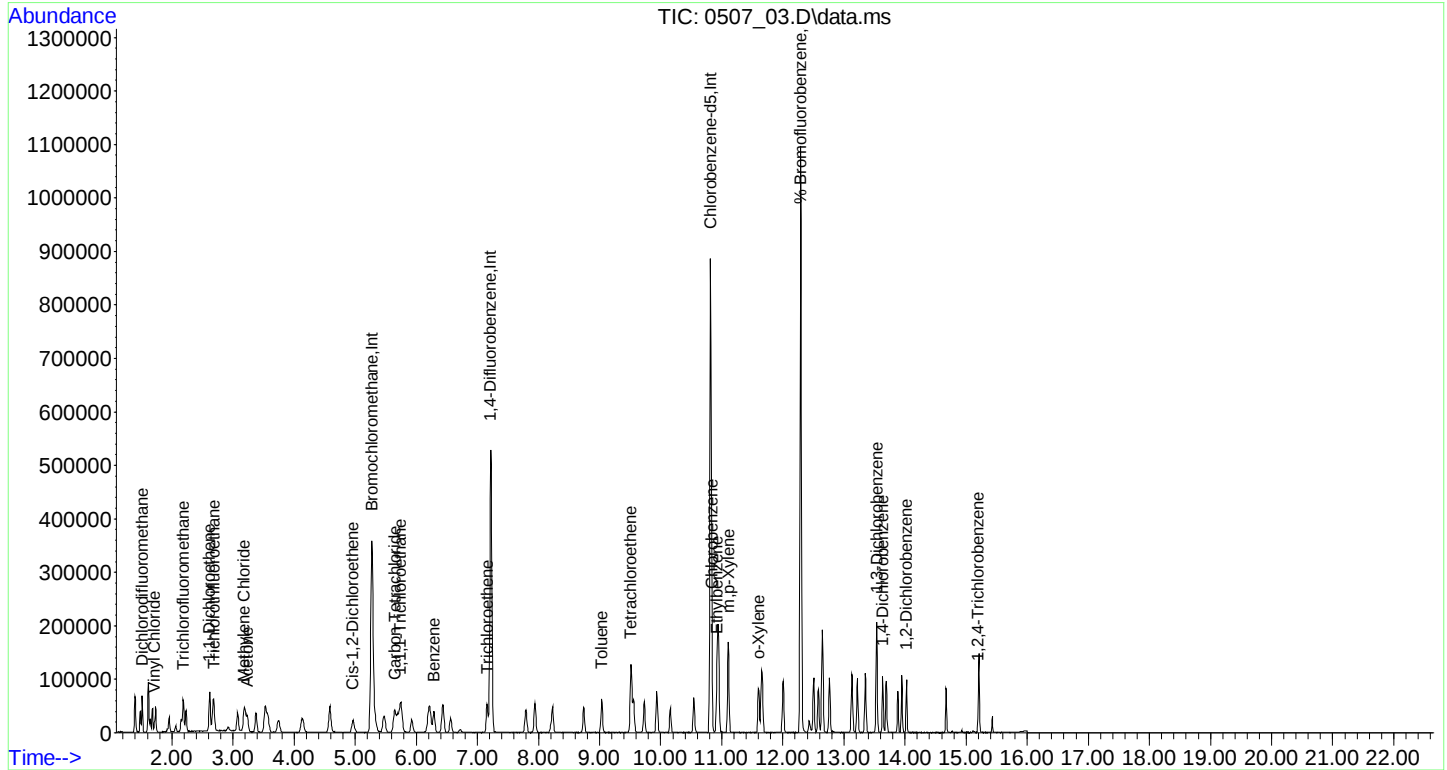
Target Compounds

						Qvalue
3) Dichlorodifluoromethane	1.513	85	35568	1.196	ppbv	97
6) Vinyl Chloride	1.711	62	14292	1.007	ppbv	97
12) Acetone	3.238	43	44370	1.267	ppbv	98
13) Trichlorofluoromethane	2.184	101	42546	1.213	ppbv	96
16) 1,1-Dichloroethene	2.615	61	26795	1.098	ppbv#	93
17) Methylene Chloride	3.176	49	27300	1.146	ppbv	88
21) Trichlorotrifluoroethane	2.684	101	27020	1.107	ppbv	96
26) Cis-1,2-Dichloroethene	4.962	61	26435	1.112	ppbv	99
32) 1,1,1-Trichloroethane	5.735	97	33937	1.109	ppbv	97
33) Benzene	6.288	78	31341	0.982	ppbv	98
34) Carbon Tetrachloride	5.649	117	37758	1.135	ppbv	99
39) Trichloroethene	7.158	130	18014	1.013	ppbv	93
48) Toluene	9.034	91	38580	0.959	ppbv#	97
52) Tetrachloroethene	9.510	166	25624	1.027	ppbv	97
55) Chlorobenzene	10.838	112	35868	0.980	ppbv#	68
56) Ethylbenzene	10.921	91	55972	0.990	ppbv	89
57) m,p-Xylene	11.106	91	85751	1.984	ppbv	99
61) o-Xylene	11.600	91	45453	0.972	ppbv	96
71) 1,3-Dichlorobenzene	13.537	146	33484	0.987	ppbv	94
72) 1,4-Dichlorobenzene	13.635	146	32938	0.994	ppbv	94
75) 1,2-Dichlorobenzene	14.024	146	26559	1.004	ppbv	97
77) 1,2,4-Trichlorobenzene	15.198	180	10152	1.235	ppbv#	79
82] Vinyl Chloride(sim)	1.714	62	15815	0.972	ppbv	97
86] Benzene(sim)	6.291	78	34755	0.896	ppbv	95
87] Carbon Tetrachloride(sim)	5.649	117	37758	1.074	ppbv#	97
88] 1,1-Dichloroethene(sim)	2.618	61	29538	1.026	ppbv	96
92] Cis-1,2-Dichloroethene...	4.965	61	28198	1.041	ppbv	94
98] Trichloroethene(sim)	7.161	130	19216	0.983	ppbv	99
104] Tetrachloroethene(sim)	9.513	166	26104	0.978	ppbv	98
108] Ethylbenzene(sim)	10.923	91	62378	0.938	ppb	99
109] m,p-Xylene(sim)	11.106	91	85751	1.915	ppbv	98
116] 1,4-Dichlorobenzene(sim)	13.638	146	36771	0.949	ppbv	98
121] 1,2,4-Trichlorobenzene...	15.198	180	10002	1.408	ppbv#	80

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_03.D
Acq On : 7 May 2021 2:56 pm
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1ppb cc - 1ppb cc
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 07 16:26:12 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration



Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_05.D
 Acq On : 7 May 2021 4:09 pm
 Operator : Keith
 Client ID : CI26489 LCS
 Lab ID : CI26489 LCS
 ALS Vial : 4 Sample Multiplier: 1

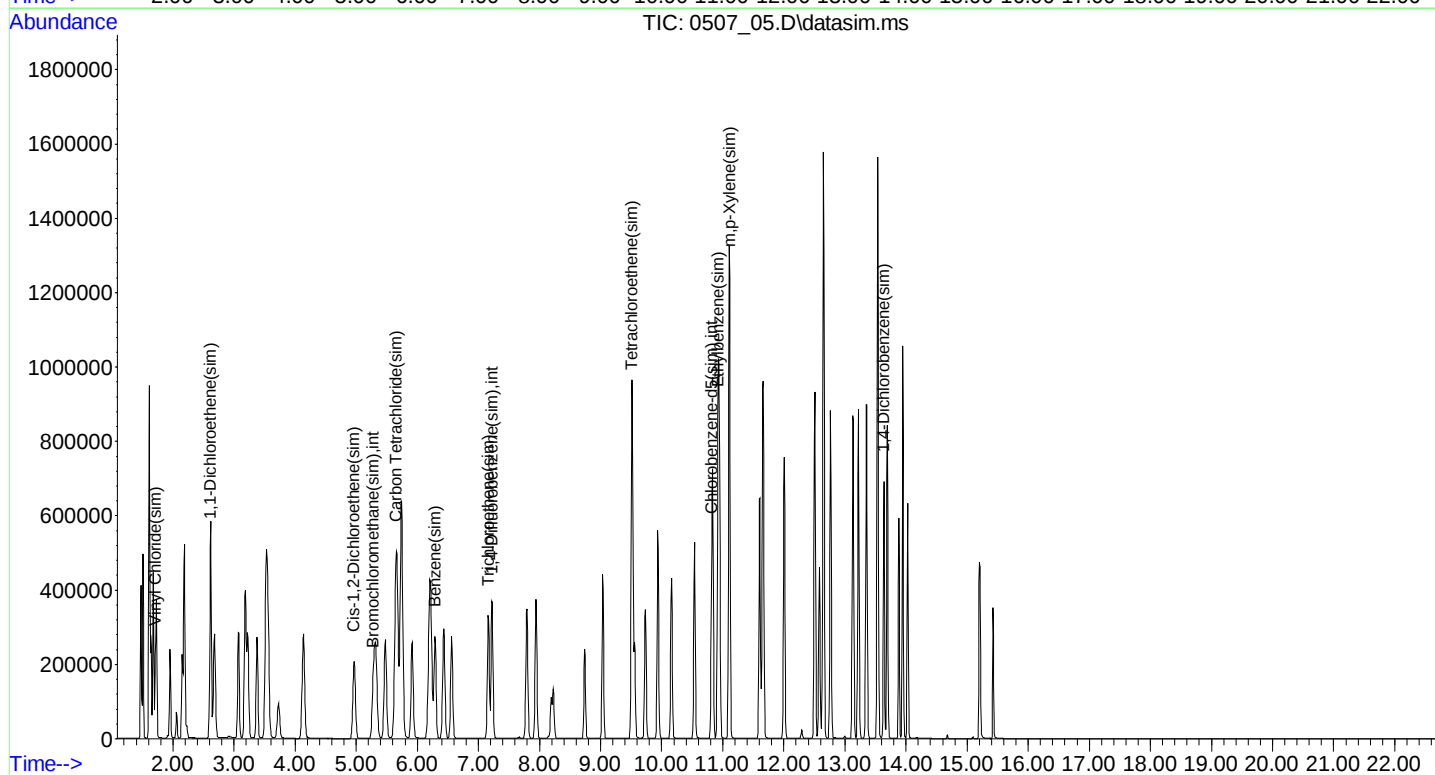
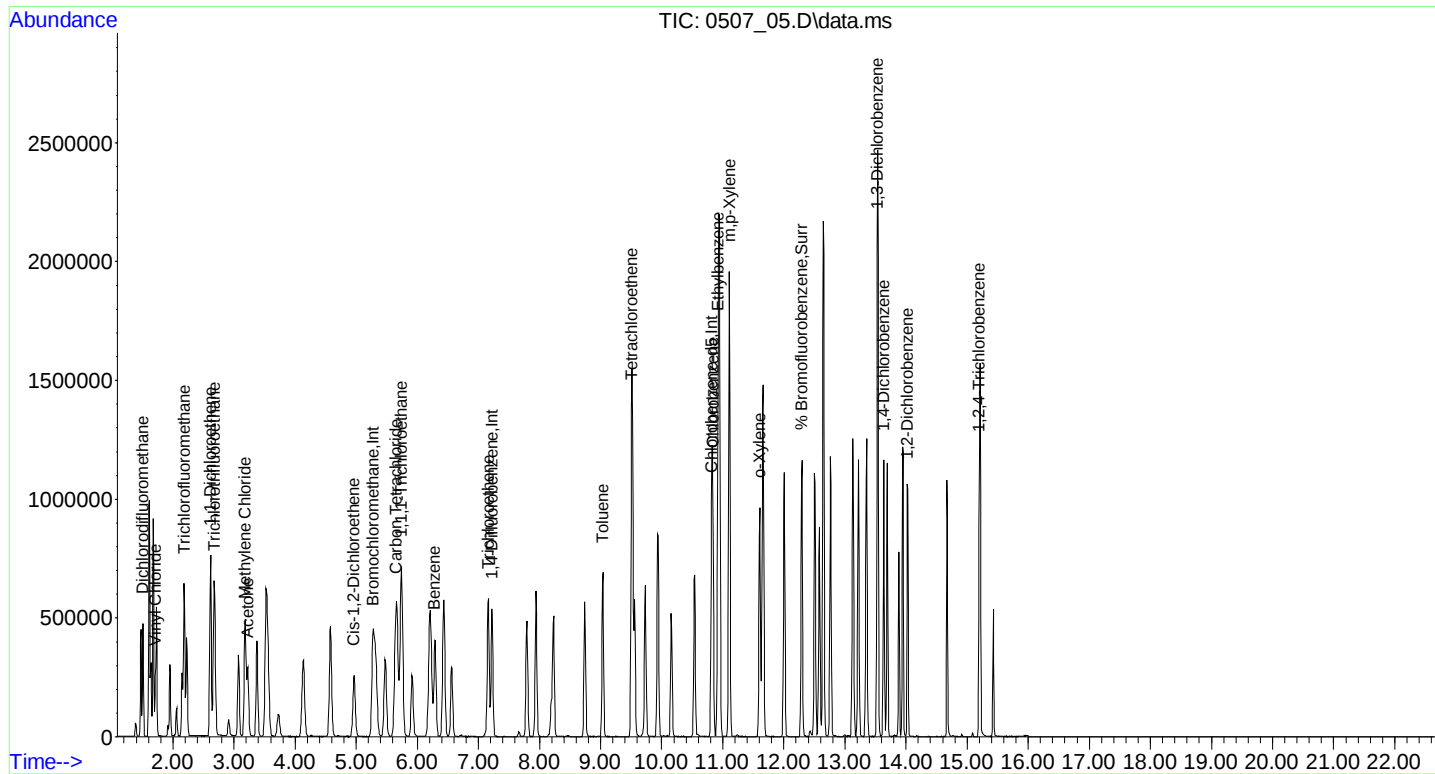
Quant Time: May 08 14:43:26 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	142191	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.225	114	449496	10.000	ng	-0.01
53) Chlorobenzene-d5	10.815	82	239103	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.275	130	147481	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.225	114	449496	10.000	ng	-0.01
105) Chlorobenzene-d5(sim)	10.815	82	239103	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.296	95	351730	10.489	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 104.90%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.506	85	306168	9.708	ppbv	99
6) Vinyl Chloride	1.711	62	174710	11.611	ppbv	96
12) Acetone	3.224	43	424619	11.432	ppbv	99
13) Trichlorofluoromethane	2.184	101	462608	12.432	ppbv	96
16) 1,1-Dichloroethene	2.615	61	316041	12.214	ppbv#	92
17) Methylene Chloride	3.176	49	273691	10.831	ppbv	89
21) Trichlorotrifluoroethane	2.677	101	300842	11.620	ppbv	97
26) Cis-1,2-Dichloroethene	4.962	61	297854	11.811	ppbv	98
32) 1,1,1-Trichloroethane	5.740	97	377591	11.634	ppbv	96
33) Benzene	6.286	78	339935	10.048	ppbv	98
34) Carbon Tetrachloride	5.654	117	421924	11.960	ppbv	97
39) Trichloroethene	7.163	130	205819	11.180	ppbv	93
48) Toluene	9.039	91	448542	10.777	ppbv	97
52) Tetrachloroethene	9.508	166	283004	10.963	ppbv	96
55) Chlorobenzene	10.836	112	412174	10.757	ppbv#	58
56) Ethylbenzene	10.925	91	633248	10.704	ppbv	90
57) m,p-Xylene	11.110	91	1020556	22.564	ppbv	99
61) o-Xylene	11.604	91	529575	10.815	ppbv	98
71) 1,3-Dichlorobenzene	13.535	146	404413	11.390	ppbv	94
72) 1,4-Dichlorobenzene	13.639	146	390077	11.243	ppbv	97
75) 1,2-Dichlorobenzene	14.029	146	316710	11.436	ppbv	99
77) 1,2,4-Trichlorobenzene	15.199	180	159951	14.098	ppbv#	73
82] Vinyl Chloride(sim)	1.714	62	187060	10.968	ppbv	97
86] Benzene(sim)	6.289	78	380363	9.359	ppbv	97
87] Carbon Tetrachloride(sim)	5.654	117	421924	11.453	ppbv#	94
88] 1,1-Dichloroethene(sim)	2.611	61	337485	11.186	ppbv	96
92] Cis-1,2-Dichloroethene...	4.965	61	326865	11.508	ppbv	95
98] Trichloroethene(sim)	7.159	130	218634	10.805	ppbv	100
104] Tetrachloroethene(sim)	9.511	166	290627	10.517	ppbv	98
108] Ethylbenzene(sim)	10.921	91	712660	10.244	ppb	99
109] m,p-Xylene(sim)	11.110	91	1020956	21.785	ppbv	98
116] 1,4-Dichlorobenzene(sim)	13.636	146	443022	10.920	ppbv	98

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_05.D
Acq On : 7 May 2021 4:09 pm
Operator : Keith
Client ID : CI26489 LCS
Lab ID : CI26489 LCS
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 08 14:43:26 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration



Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_06.D
 Acq On : 7 May 2021 5:01 pm
 Operator : Keith
 Client ID : CI26489 LCSD
 Lab ID : CI26489 LCSD
 ALS Vial : 5 Sample Multiplier: 1

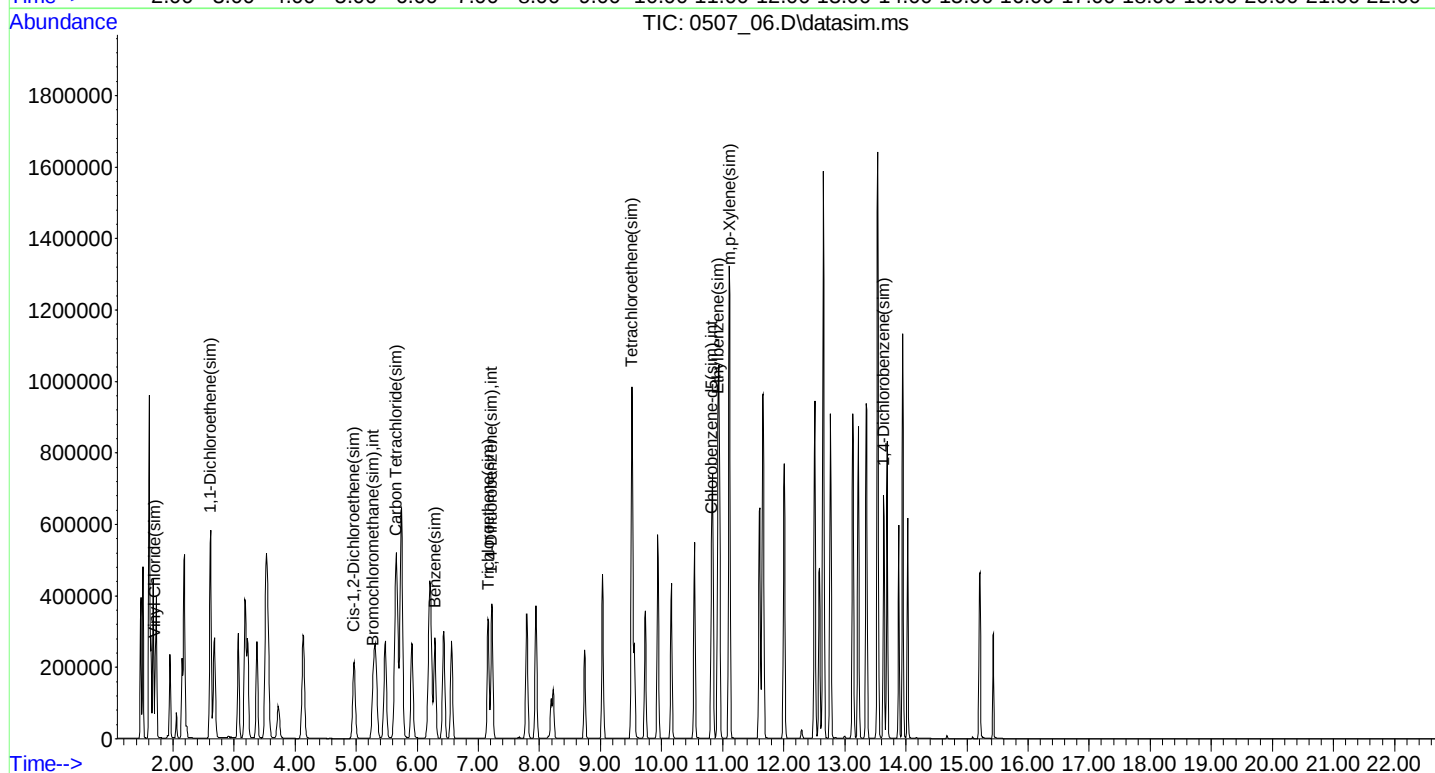
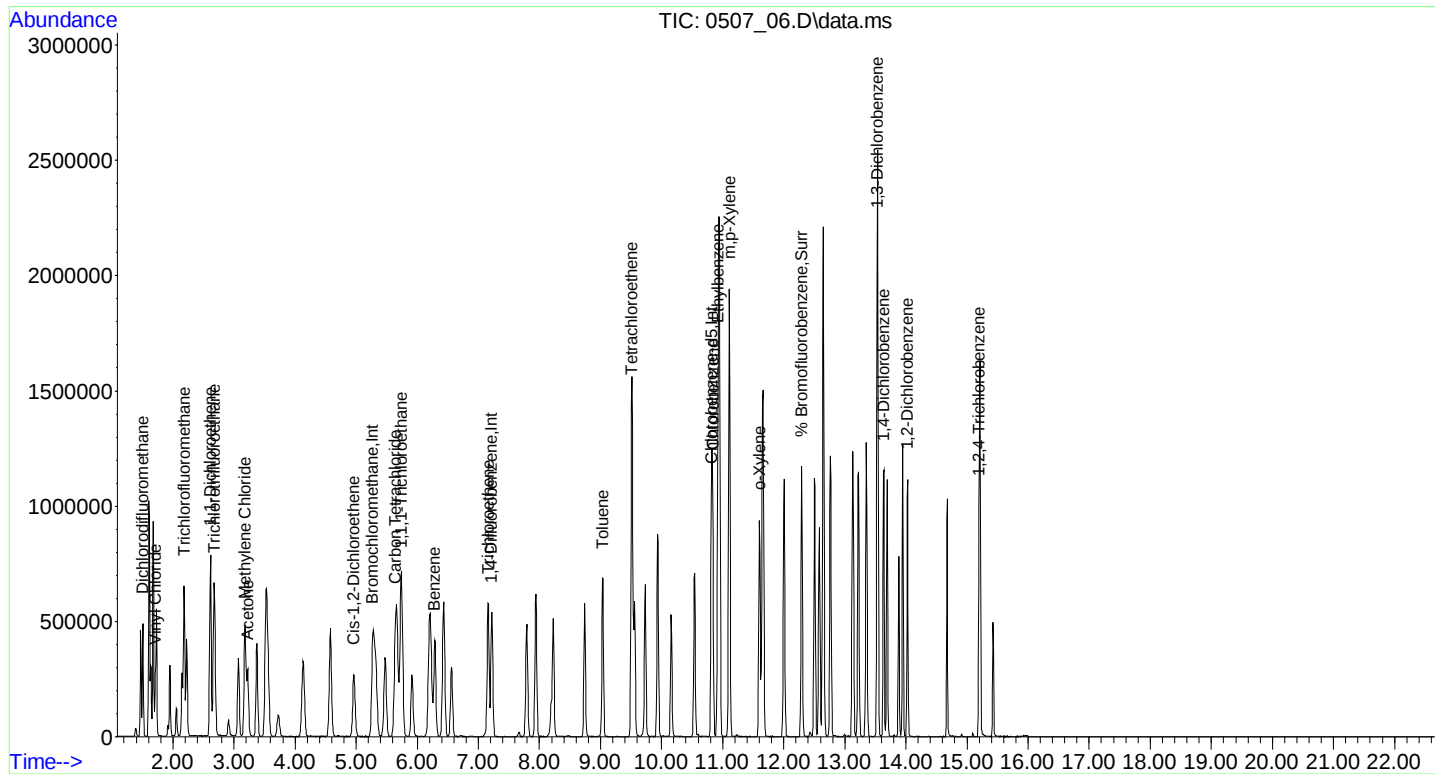
Quant Time: May 08 14:43:31 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	145955	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.218	114	463804	10.000	ng	-0.02
53) Chlorobenzene-d5	10.815	82	245607	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.275	130	150613	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.218	114	463804	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.815	82	245607	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.296	95	356395	10.346	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	103.50%
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.506	85	296368	9.155	ppbv	99
6) Vinyl Chloride	1.711	62	176231	11.410	ppbv	96
12) Acetone	3.224	43	419138	10.993	ppbv	100
13) Trichlorofluoromethane	2.184	101	467987	12.252	ppbv	96
16) 1,1-Dichloroethene	2.615	61	323170	12.168	ppbv	92
17) Methylene Chloride	3.176	49	277450	10.696	ppbv	89
21) Trichlorotrifluoroethane	2.677	101	305877	11.510	ppbv	96
26) Cis-1,2-Dichloroethene	4.962	61	314310	12.142	ppbv	98
32) 1,1,1-Trichloroethane	5.733	97	382252	11.474	ppbv	96
33) Benzene	6.286	78	352848	10.161	ppbv	97
34) Carbon Tetrachloride	5.647	117	432219	11.936	ppbv	96
39) Trichloroethene	7.163	130	208838	10.994	ppbv	93
48) Toluene	9.039	91	458739	10.682	ppbv	98
52) Tetrachloroethene	9.508	166	285534	10.720	ppbv	97
55) Chlorobenzene	10.836	112	421762	10.716	ppbv#	58
56) Ethylbenzene	10.925	91	649496	10.687	ppbv	90
57) m,p-Xylene	11.110	91	1026959	22.104	ppbv	99
61) o-Xylene	11.604	91	532422	10.585	ppbv	98
71) 1,3-Dichlorobenzene	13.535	146	410953	11.268	ppbv	95
72) 1,4-Dichlorobenzene	13.639	146	396664	11.130	ppbv	96
75) 1,2-Dichlorobenzene	14.029	146	322372	11.332	ppbv	99
77) 1,2,4-Trichlorobenzene	15.197	180	147623	12.947	ppbv#	76
82] Vinyl Chloride(sim)	1.707	62	190040	10.911	ppbv	98
86] Benzene(sim)	6.289	78	394084	9.495	ppbv	97
87] Carbon Tetrachloride(sim)	5.647	117	432219	11.489	ppbv#	94
88] 1,1-Dichloroethene(sim)	2.611	61	341065	11.069	ppbv	96
92] Cis-1,2-Dichloroethene...	4.965	61	336428	11.599	ppbv	95
98] Trichloroethene(sim)	7.159	130	223499	10.704	ppbv	99
104] Tetrachloroethene(sim)	9.511	166	298339	10.463	ppbv	98
108] Ethylbenzene(sim)	10.921	91	728061	10.188	ppb	99
109] m,p-Xylene(sim)	11.110	91	1026959	21.333	ppbv	99
116] 1,4-Dichlorobenzene(sim)	13.636	146	446179	10.706	ppbv	98

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_06.D
Acq On : 7 May 2021 5:01 pm
Operator : Keith
Client ID : CI26489 LCSD
Lab ID : CI26489 LCSD
ALS Vial : 5 Sample Multiplier: 1

Quant Time: May 08 14:43:31 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration



Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_21.D
 Acq On : 8 May 2021 3:39 am
 Operator : Keith
 Client ID : CI26489 QC
 Lab ID : CI26489 QC
 ALS Vial : 20 Sample Multiplier: 1

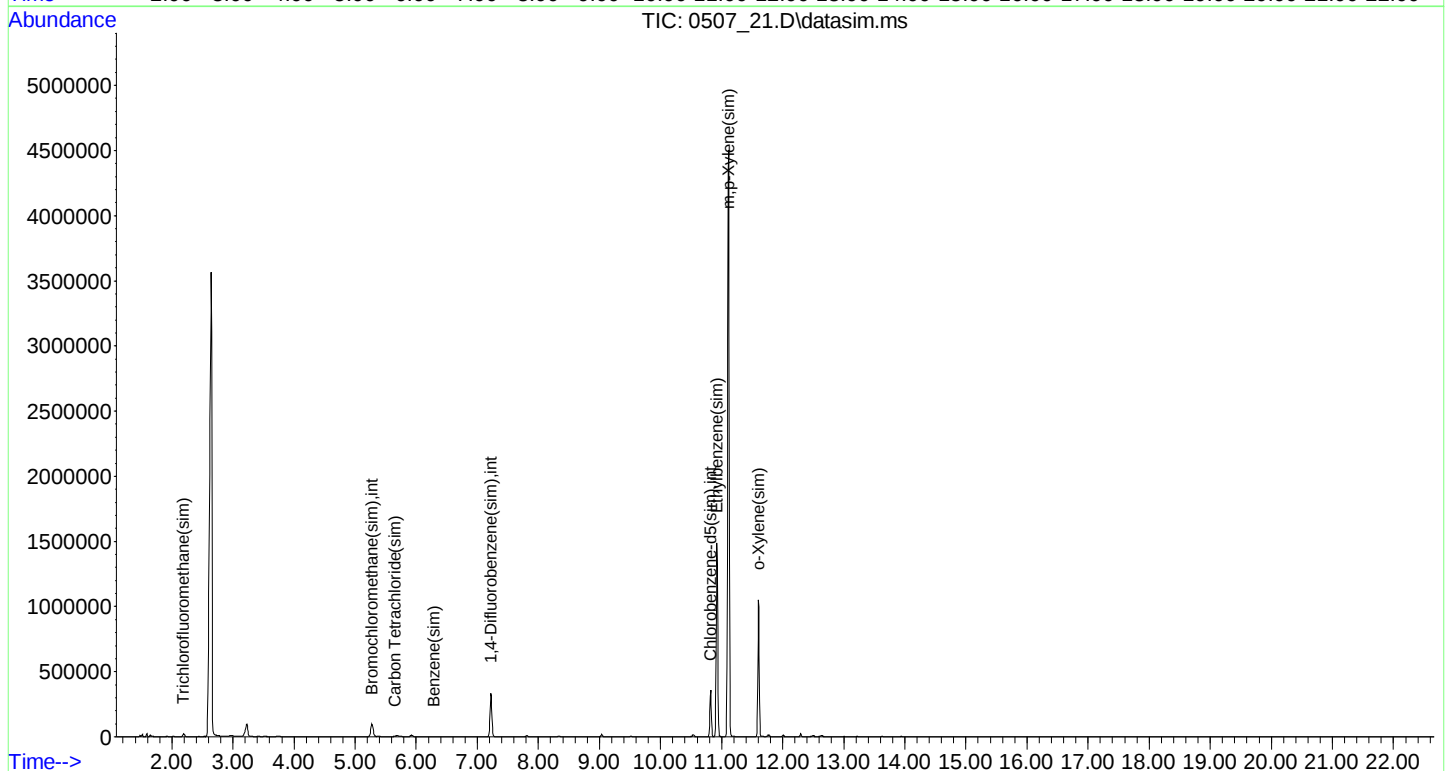
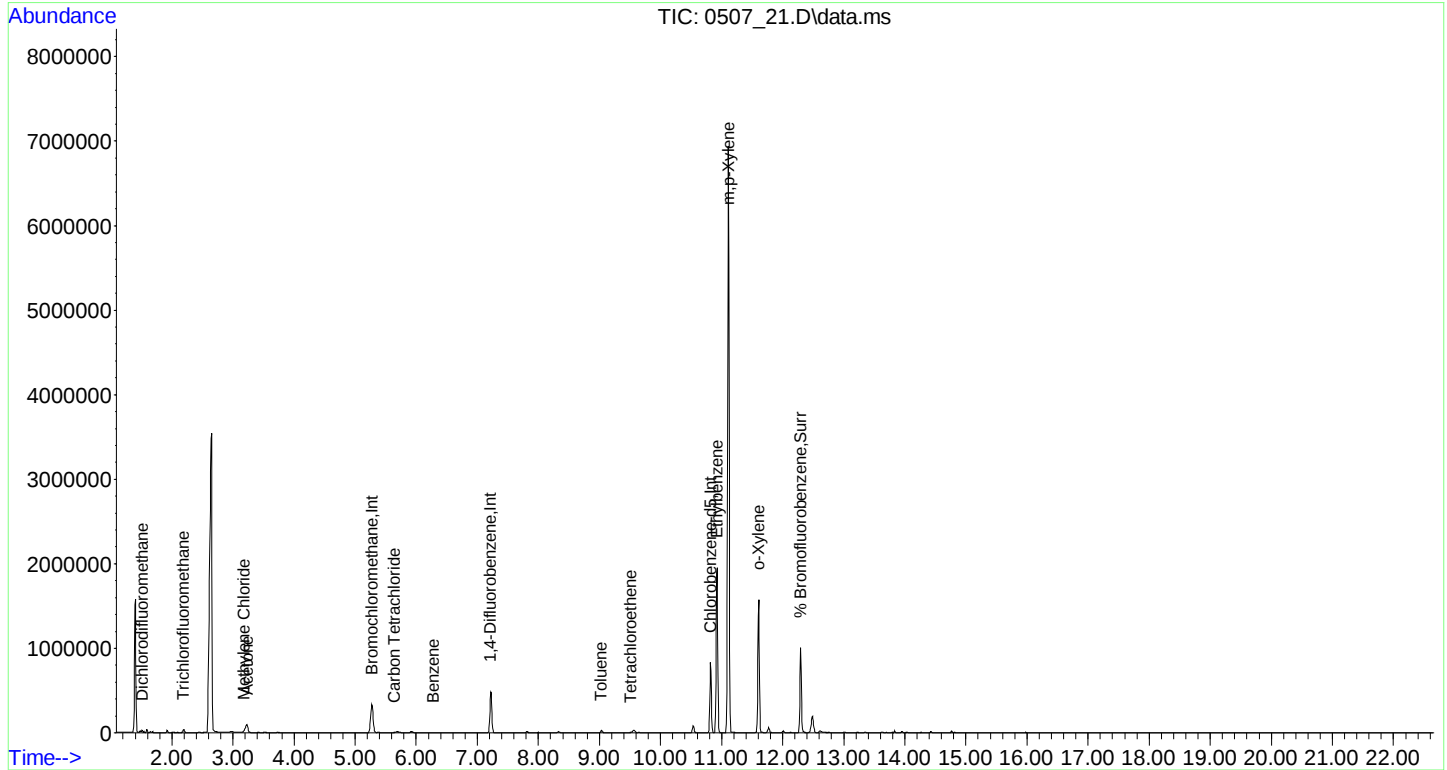
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 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

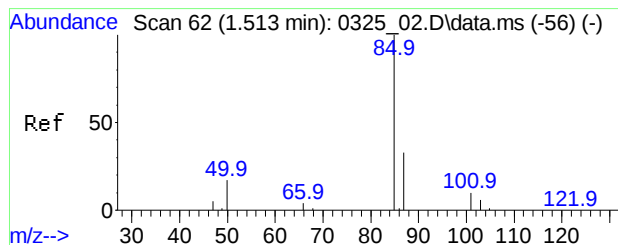
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.274	130	125862	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.220	114	402197	10.000	ng	-0.02
53) Chlorobenzene-d5	10.818	82	212995	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.277	130	133420	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.220	114	402197	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.818	82	212995	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.298	95	312714	10.468	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 104.70%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.512	85	12058	0.432	ppbv	98
12) Acetone	3.231	43	109786	3.339	ppbv	99
13) Trichlorofluoromethane	2.191	101	14033	0.426	ppbv	92
17) Methylene Chloride	3.183	49	13565	0.606	ppbv	91
33) Benzene	6.288	78	1668	0.056	ppbv	93
34) Carbon Tetrachloride	5.649	117	2787	0.089	ppbv#	54
48) Toluene	9.034	91	17607	0.473	ppbv	95
52) Tetrachloroethene	9.510	166	1130	0.049	ppbv	98
56) Ethylbenzene	10.927	91	1299579	24.659	ppbv	90
57) m,p-Xylene	11.113	91	3614648	89.712	ppbv	98
61) o-Xylene	11.607	91	827833	18.979	ppbv	98
84] Trichlorofluoromethane...	2.187	101	14447	0.383	ppbv	98
86] Benzene(sim)	6.291	78	1853	0.050	ppbv#	92
87] Carbon Tetrachloride(sim)	5.649	117	2588	0.078	ppbv#	50
108] Ethylbenzene(sim)	10.923	91	1457750	23.522	ppb	98
109] m,p-Xylene(sim)	11.113	91	3616313	86.624	ppbv	97
110] o-Xylene(sim)	11.603	91	923410	18.245	ppb	98

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_21.D
Acq On : 8 May 2021 3:39 am
Operator : Keith
Client ID : CI26489 QC
Lab ID : CI26489 QC
ALS Vial : 20 Sample Multiplier: 1

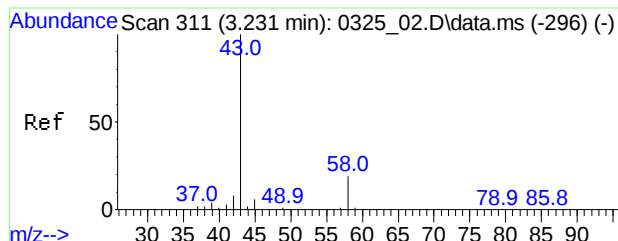
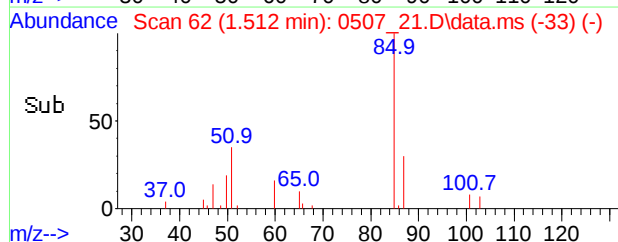
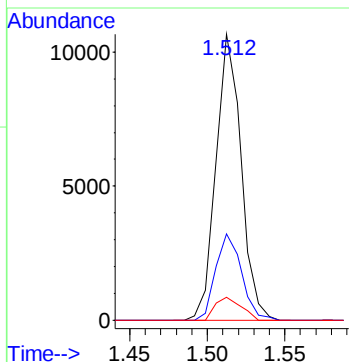
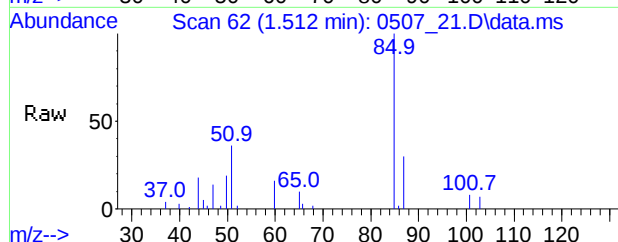
Quant Time: May 08 14:51:32 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





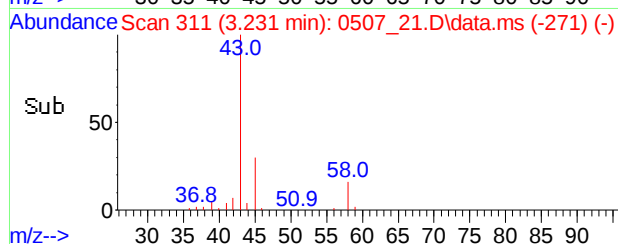
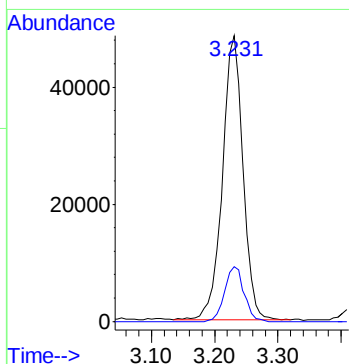
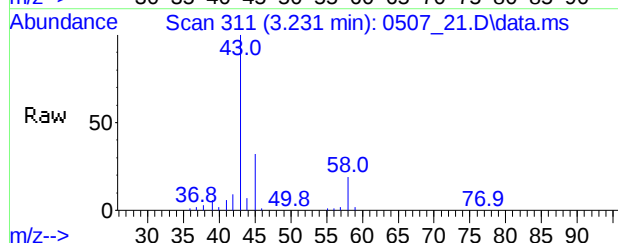
#3
Dichlorodifluoromethane
Conc: 8\$ 0.432 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

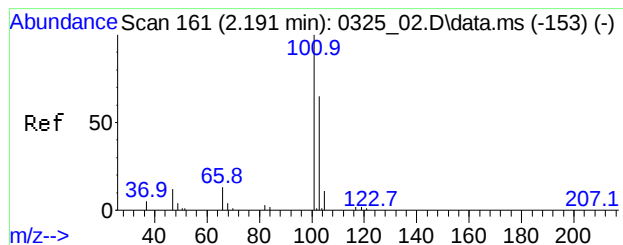
Tgt Ion: 85 Resp: 12058
Ion Ratio Lower Upper
85 100
87 31.1 25.8 38.8
101 8.3 7.3 10.9



#12
Acetone
Conc: 8\$ 3.339 ppbv
RT: 3.231 min Scan# 311
Delta R.T. -0.027 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

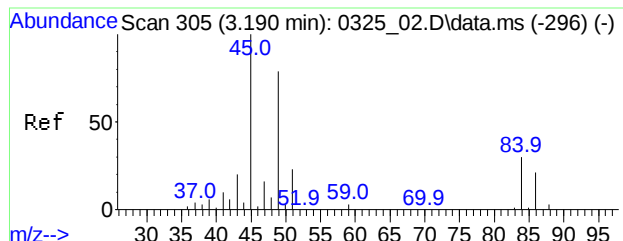
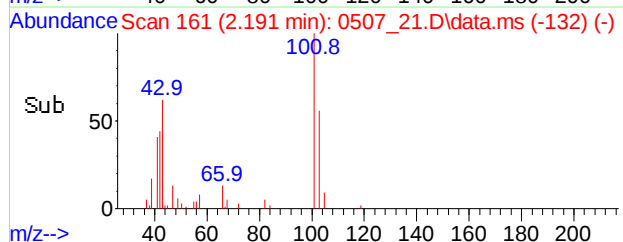
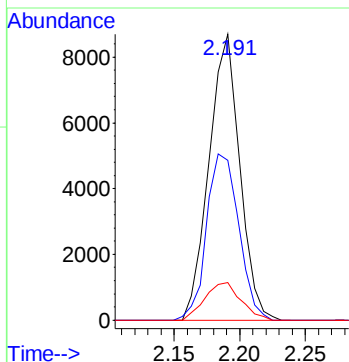
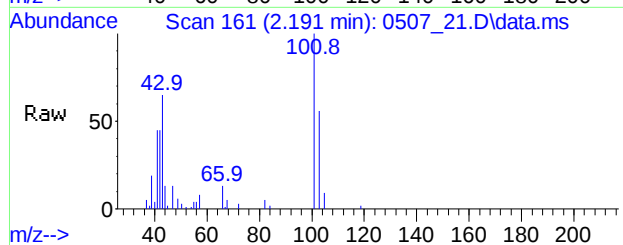
Tgt Ion: 43 Resp: 109786
Ion Ratio Lower Upper
43 100
58 18.1 15.0 22.4





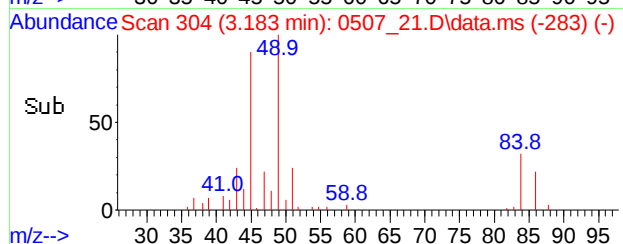
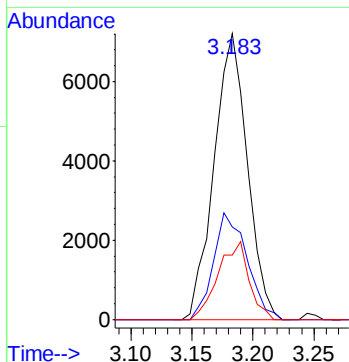
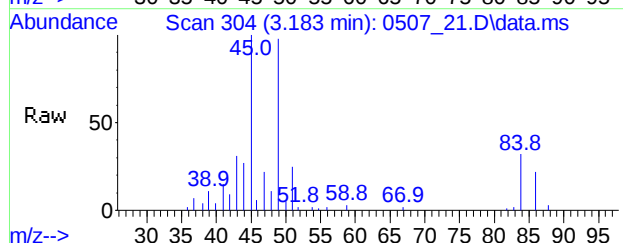
#13
Trichlorofluoromethane
Conc: 8\$ 0.426 ppbv
RT: 2.191 min Scan# 161
Delta R.T. -0.000 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

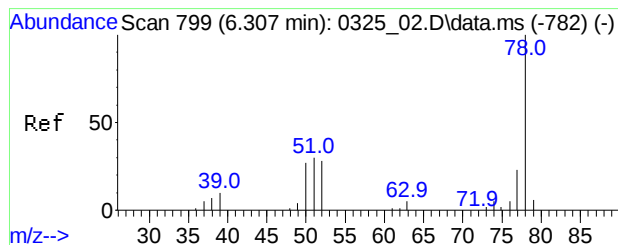
Tgt Ion: 101 Resp: 14033
Ion Ratio Lower Upper
101 100
103 60.8 54.6 82.0
66 15.4 12.2 18.4



#17
Methylene Chloride
Conc: 8\$ 0.606 ppbv
RT: 3.183 min Scan# 304
Delta R.T. -0.007 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

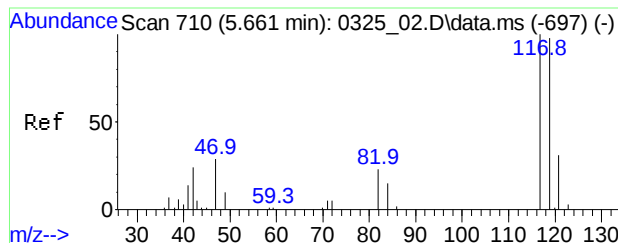
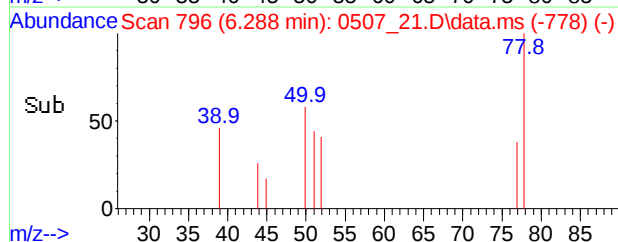
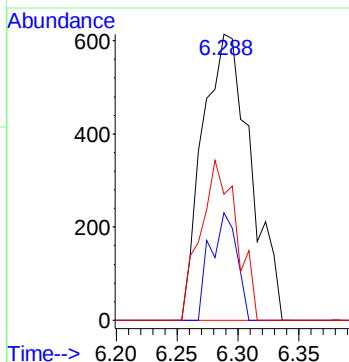
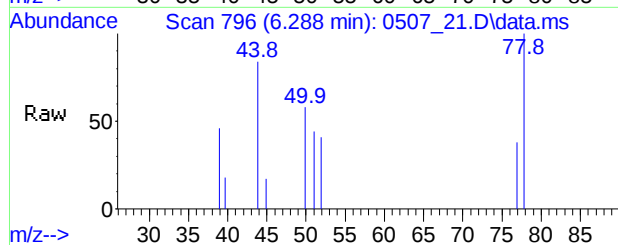
Tgt Ion: 49 Resp: 13565
Ion Ratio Lower Upper
49 100
84 37.5 36.2 54.2
86 25.3 22.3 33.5





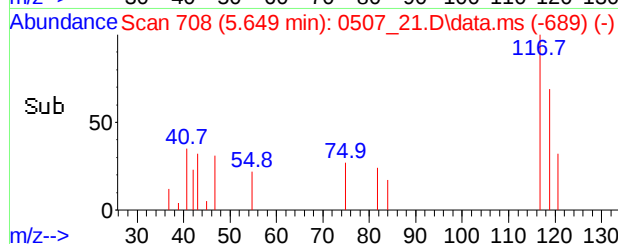
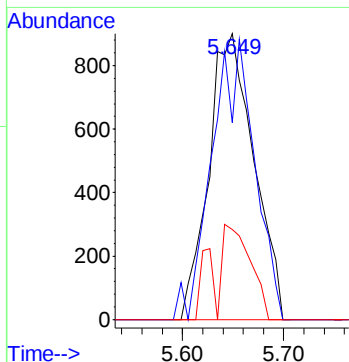
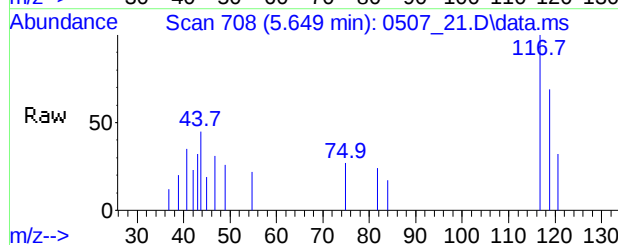
#33
Benzene
Conc: 8\$ Below Cal
RT: 6.288 min Scan# 796
Delta R.T. -0.026 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

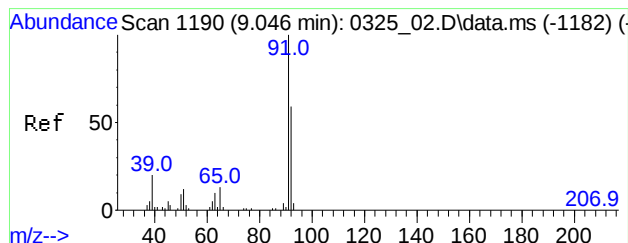
Tgt Ion:	78	Resp:	1668
Ion	Ratio	Lower	Upper
78	100		
77	20.6	19.1	28.7
51	41.8	30.3	45.5



#34
Carbon Tetrachloride
Conc: 8\$ Below Cal
RT: 5.649 min Scan# 708
Delta R.T. -0.012 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

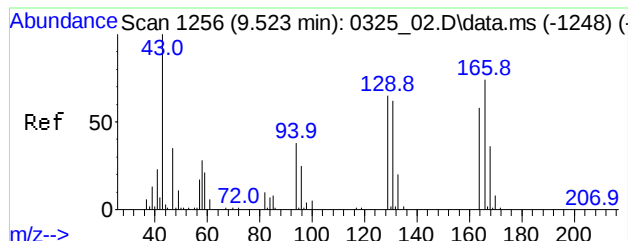
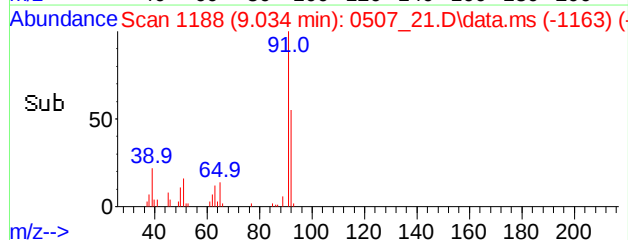
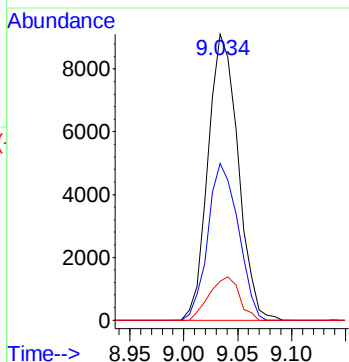
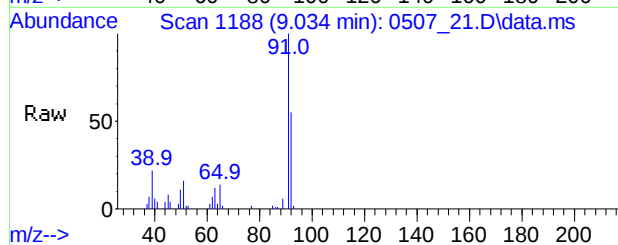
Tgt Ion:	117	Resp:	2787
Ion	Ratio	Lower	Upper
117	100		
119	49.4	85.1	125.1#
121	20.6	11.0	51.0





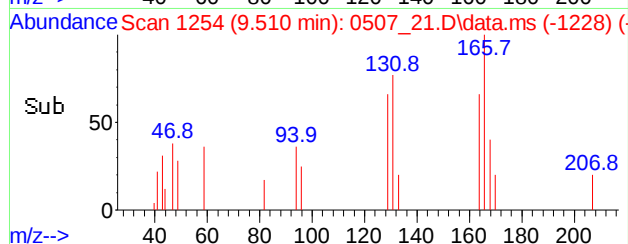
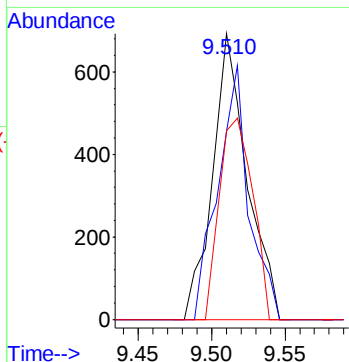
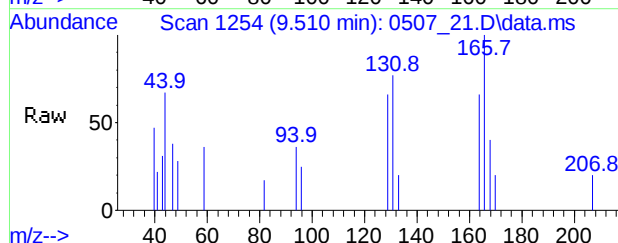
#48
Toluene
Conc: 8\$ 0.473 ppbv
RT: 9.034 min Scan# 1188
Delta R.T. -0.019 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

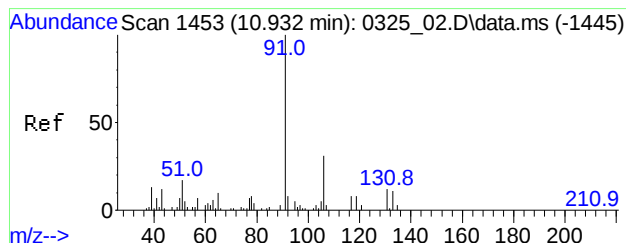
Tgt Ion: 91 Resp: 17607
Ion Ratio Lower Upper
91 100
92 55.6 47.4 71.2
65 15.1 10.2 15.4



#52
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 9.510 min Scan# 1254
Delta R.T. -0.013 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

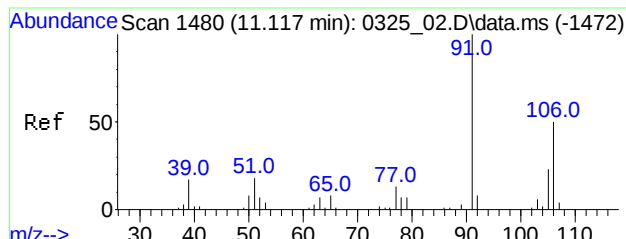
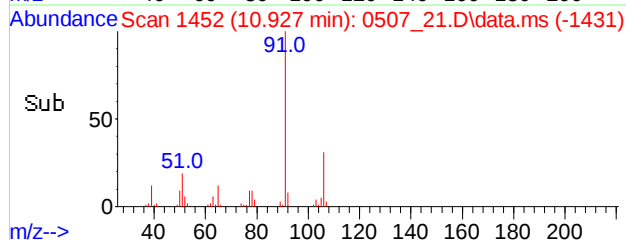
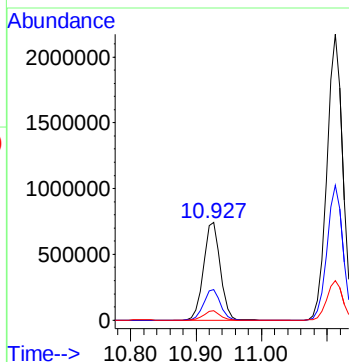
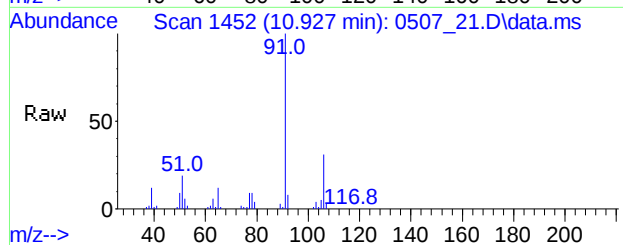
Tgt Ion: 166 Resp: 1130
Ion Ratio Lower Upper
166 100
164 80.0 63.2 94.8
129 68.5 56.9 85.3





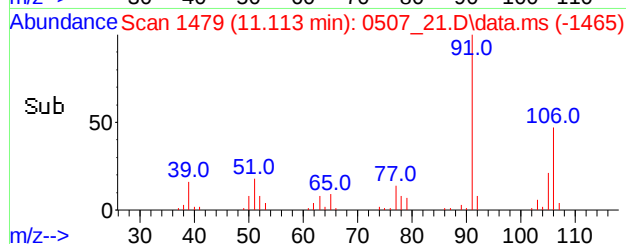
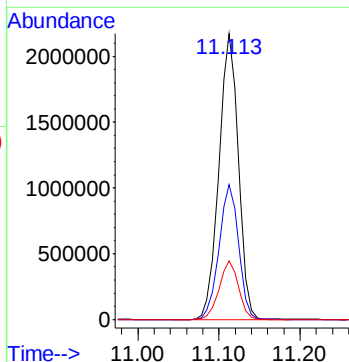
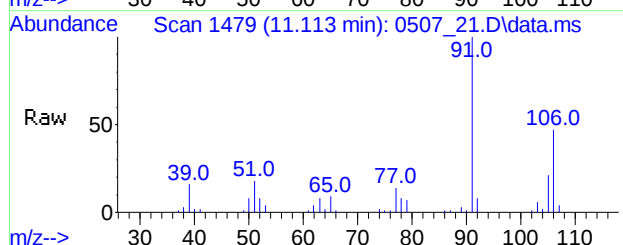
#56
Ethylbenzene
Conc: 8\$ 24.659 ppbv
RT: 10.927 min Scan# 1452
Delta R.T. -0.005 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

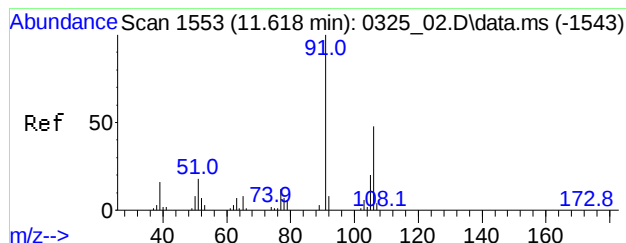
Tgt Ion: 91 Resp: 1299579
Ion Ratio Lower Upper
91 100
106 31.1 17.7 57.7
77 9.2 0.0 32.7



#57
m,p-Xylene
Conc: 8\$ 89.712 ppbv
RT: 11.113 min Scan# 1479
Delta R.T. -0.004 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

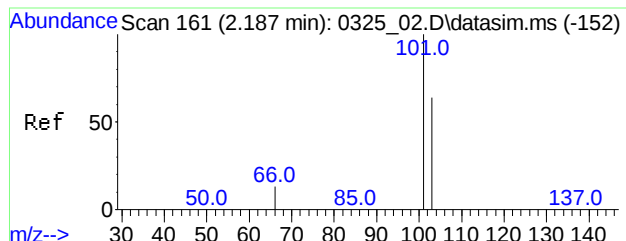
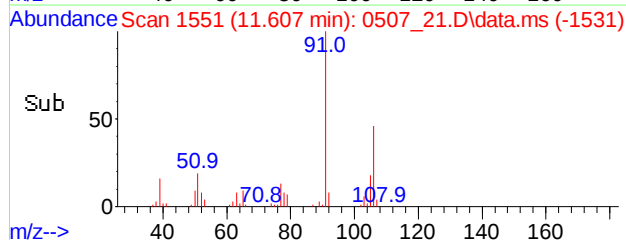
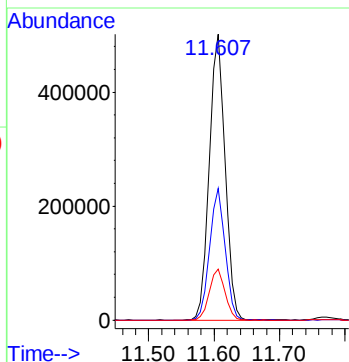
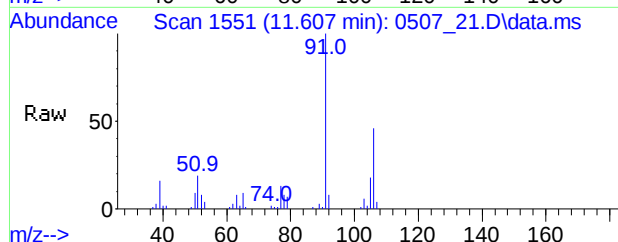
Tgt Ion: 91 Resp: 3614648
Ion Ratio Lower Upper
91 100
106 47.3 39.4 59.2
105 20.4 16.8 25.2





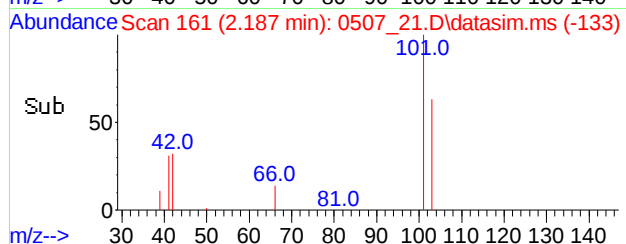
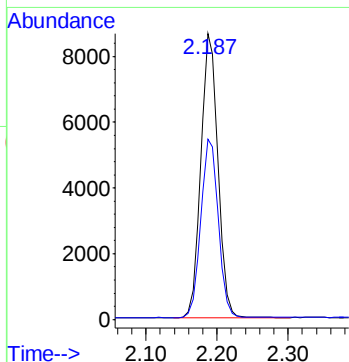
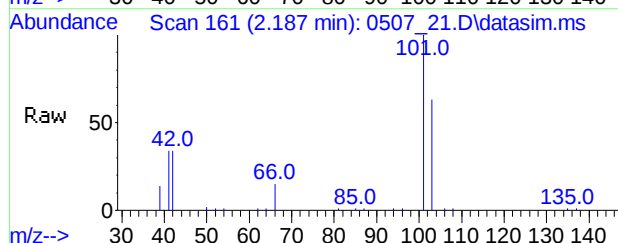
#61
o-Xylene
Conc: 8\$ 18.979 ppbv
RT: 11.607 min Scan# 1551
Delta R.T. -0.011 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

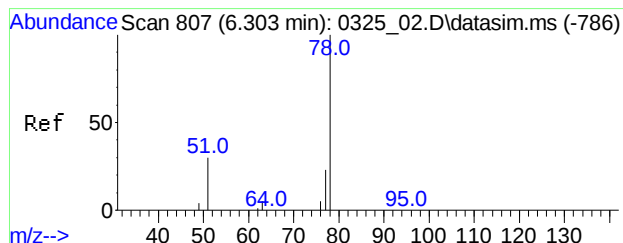
Tgt Ion: 91 Resp: 827833
Ion Ratio Lower Upper
91 100
106 45.3 37.5 56.3
105 17.7 13.5 20.3



#84
Trichlorofluoromethane(sim)
Conc: 8\$ 0.383 ppbv
RT: 2.187 min Scan# 161
Delta R.T. -0.007 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

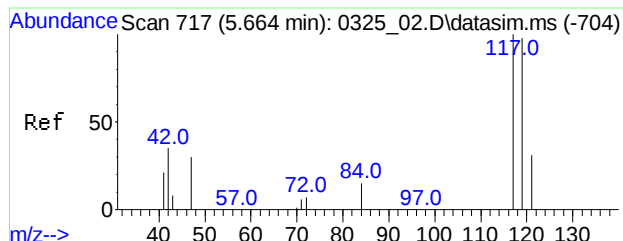
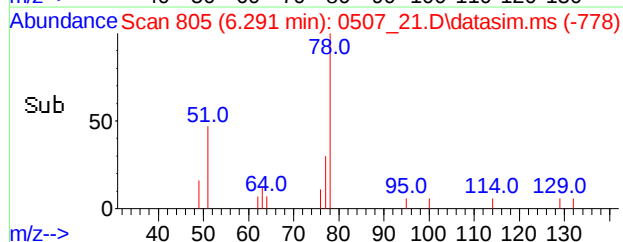
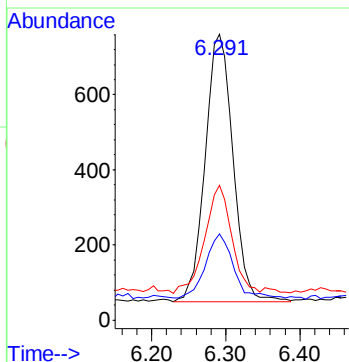
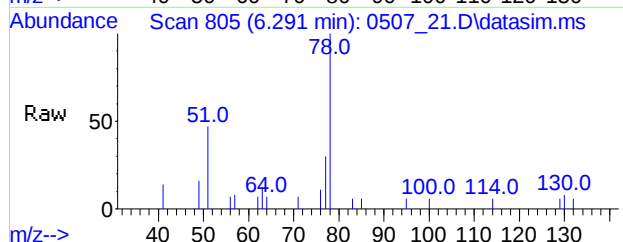
Tgt Ion: 101 Resp: 14447
Ion Ratio Lower Upper
101 100
103 64.2 52.6 78.8





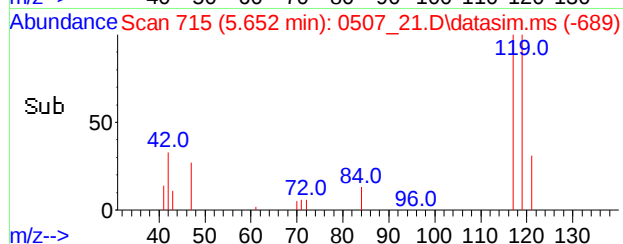
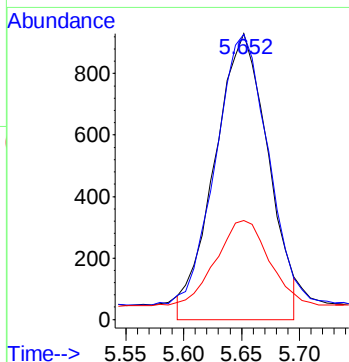
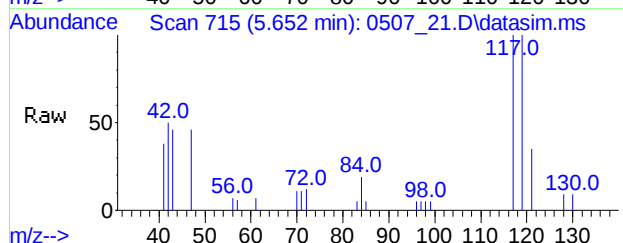
#86
Benzene(sim)
Conc: 8\$ 0.050 ppbv
RT: 6.291 min Scan# 805
Delta R.T. -0.012 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

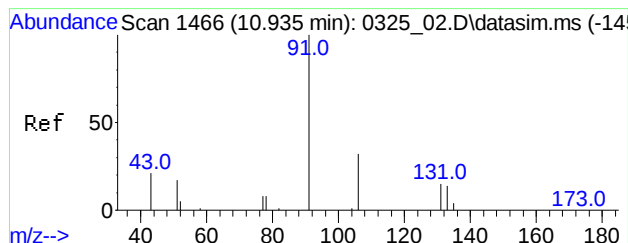
Tgt Ion: 78 Resp: 1853
Ion Ratio Lower Upper
78 100
77 23.4 18.6 28.0
51 39.6 25.4 38.2#



#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.078 ppbv
RT: 5.649 min Scan# 715
Delta R.T. -0.012 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

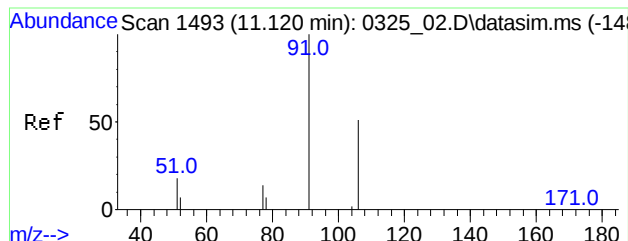
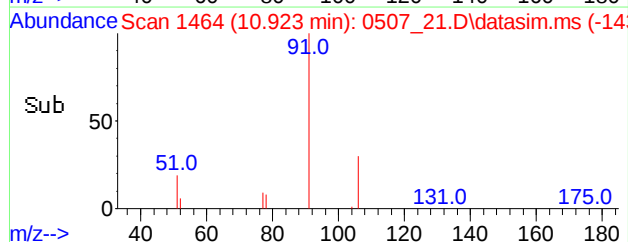
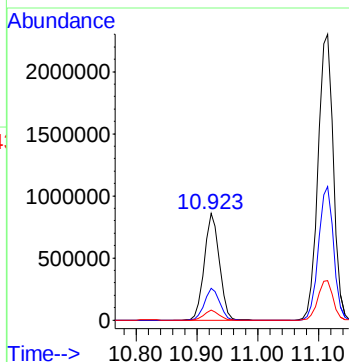
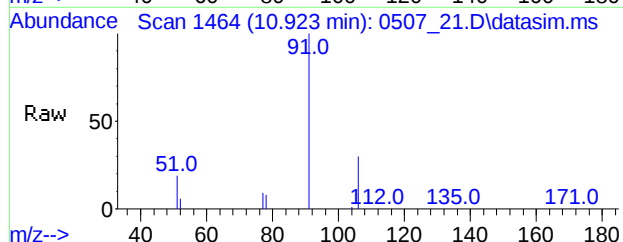
Tgt Ion: 117 Resp: 2588
Ion Ratio Lower Upper
117 100
119 50.3 84.7 127.1#
121 8.1 21.1 31.7#





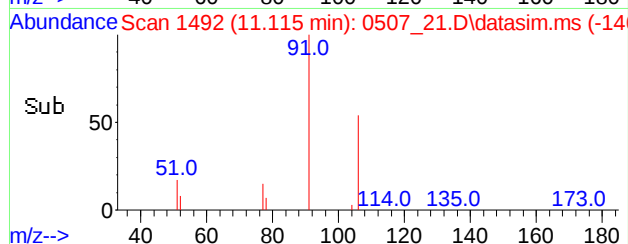
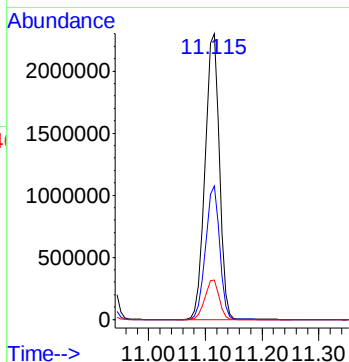
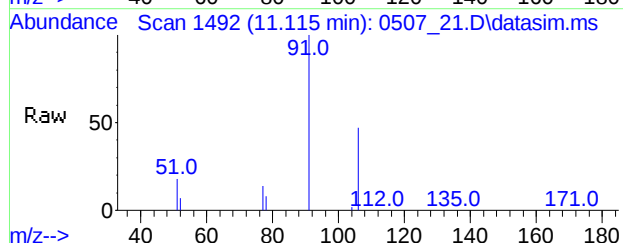
#108
Ethylbenzene(sim)
Conc: 8\$ 23.522 ppb
RT: 10.923 min Scan# 1464
Delta R.T. -0.012 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

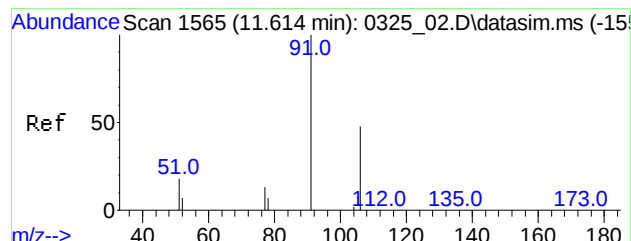
Tgt Ion: 91 Resp: 1457750
Ion Ratio Lower Upper
91 100
106 30.0 24.8 37.2
77 9.1 7.5 11.3



#109
m,p-Xylene(sim)
Conc: 8\$ 86.624 ppbv
RT: 11.113 min Scan# 1492
Delta R.T. -0.004 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

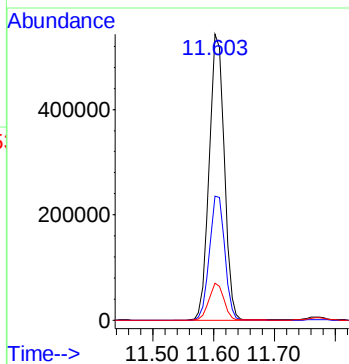
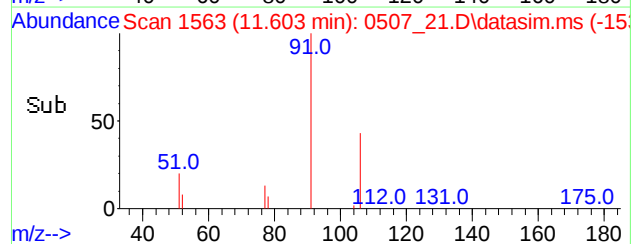
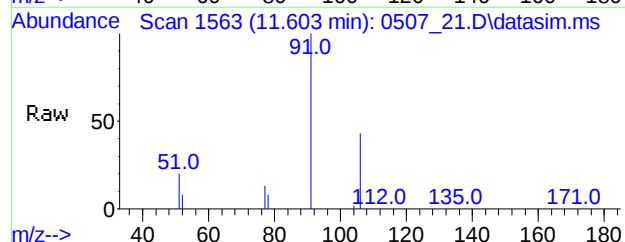
Tgt Ion: 91 Resp: 3616313
Ion Ratio Lower Upper
91 100
106 47.3 44.4 54.2
77 13.8 11.7 17.5





#110
o-Xylene(sim)
Conc: 8\$ 18.245 ppb
RT: 11.603 min Scan# 1563
Delta R.T. -0.011 min
Lab File: 0507_21.D
Acq: 8 May 2021 3:39 am

Tgt Ion	Ratio	Lower	Upper
91	100		
106	44.1	36.6	54.8
77	12.8	10.1	15.1



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCI26499	Lab Sample ID:	CI26489 BL
Canister:	BL	Lab File ID:	0507_08.D
Instrument:	CHEM24	Column:	RTX-VMS
		Date Received:	05/07/21
Purge Volume	200		
	(cc)	Date Analyzed:	05/07/21
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_08.D
 Acq On : 7 May 2021 6:10 pm
 Operator : Keith
 Client ID : CI26489 BLANK
 Lab ID : CI26489 BLANK
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 08 14:45:59 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

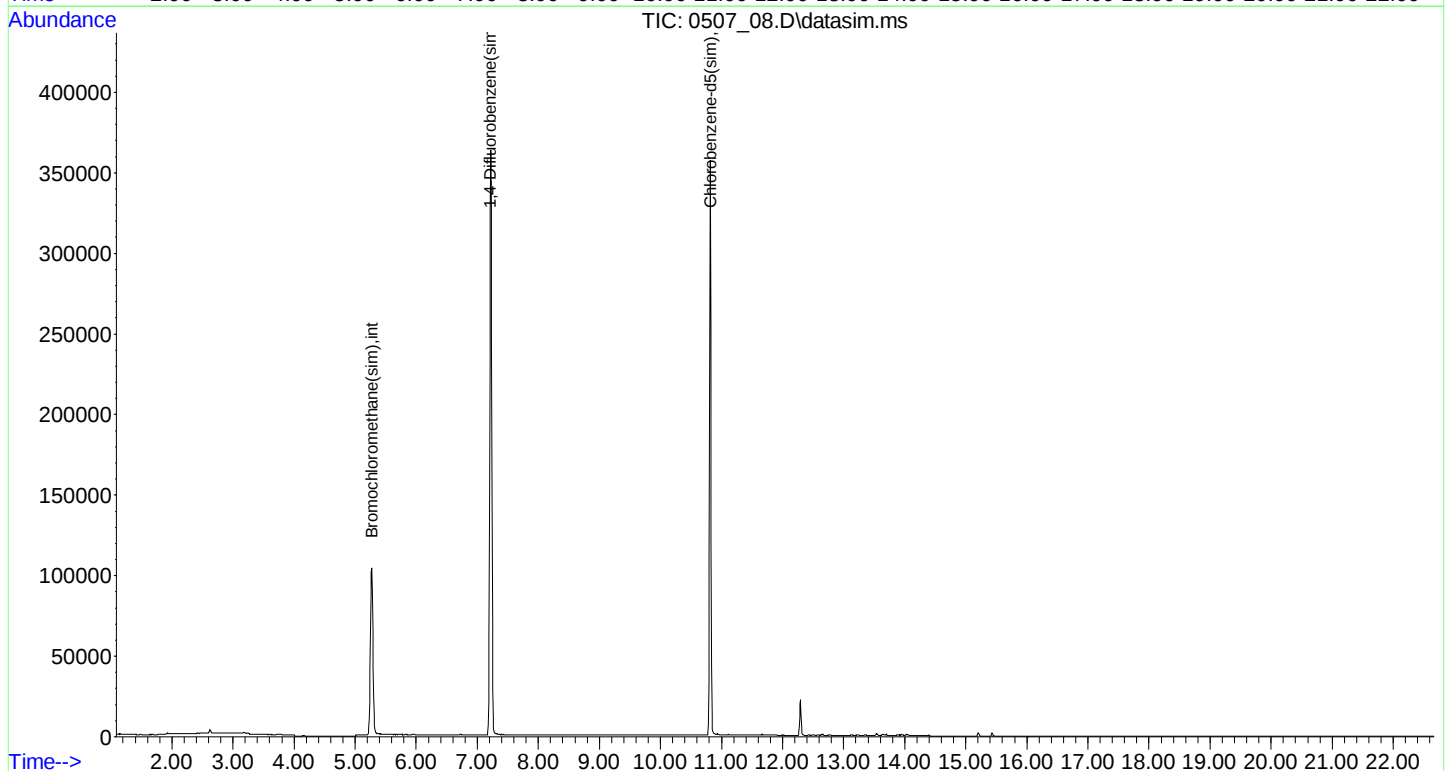
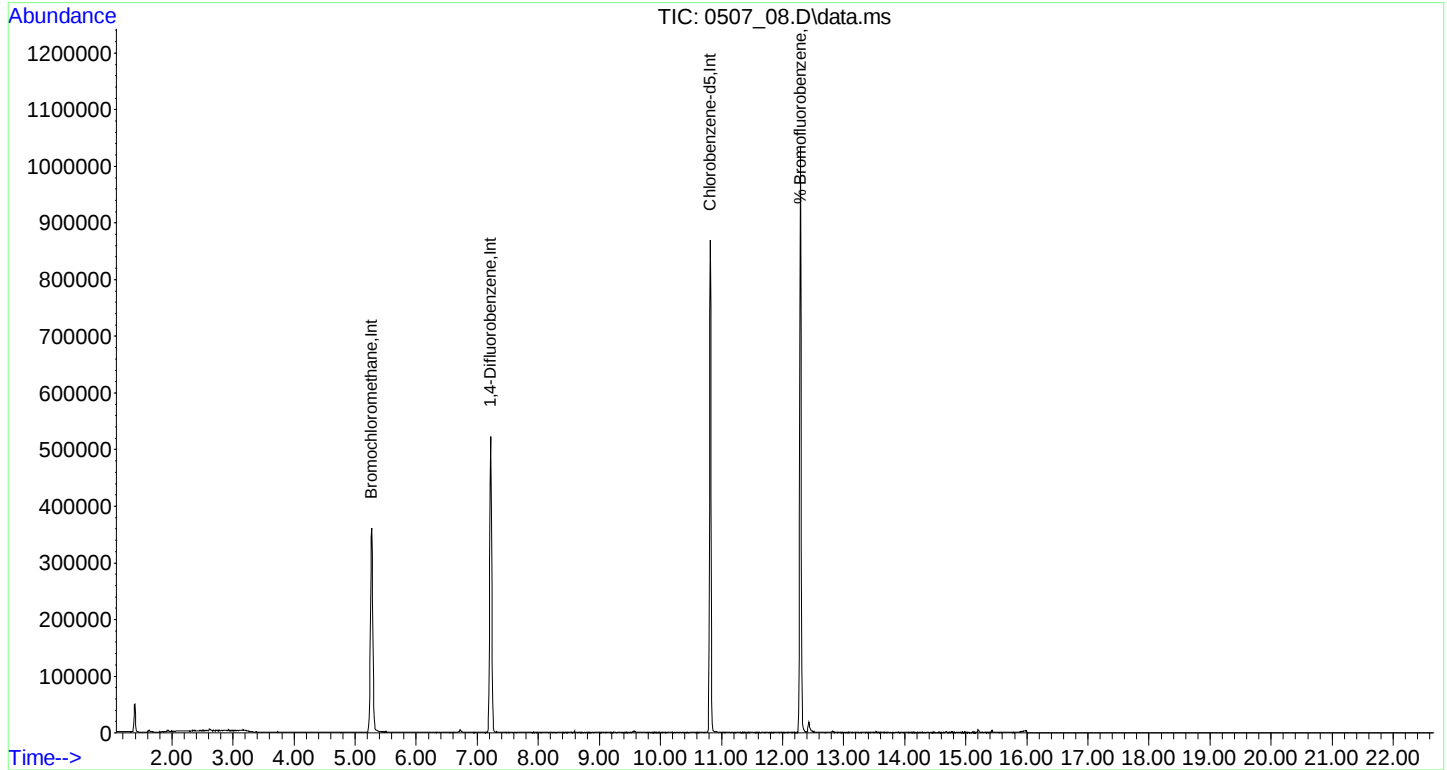
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.272	130	140345	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.218	114	448239	10.000	ng	-0.02
53) Chlorobenzene-d5	10.815	82	230926	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.275	130	145897	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.218	114	448239	10.000	ng	-0.02
105) Chlorobenzene-d5(sim)	10.815	82	230926	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.290	95	326916	10.094	ppbv	-0.01
Spiked Amount	10.000	Range	70 - 130	Recovery	=	100.90%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_08.D
Acq On : 7 May 2021 6:10 pm
Operator : Keith
Client ID : CI26489 BLANK
Lab ID : CI26489 BLANK
ALS Vial : 7 Sample Multiplier: 1

Quant Time: May 08 14:45:59 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration



26489 356cc dup

ppbv

CAS NO.

COMPOUND

CONC.

Q

MDL

PQL

R

FORM I AIR

Data Path : H:\AIR2021\CHEM24\05MAY\07\
 Data File : 0507_22.D
 Acq On : 8 May 2021 4:20 am
 Operator : Keith
 Client ID : 26489 356cc dup
 Lab ID : CI26489 DUP
 ALS Vial : 21 Sample Multiplier: 1

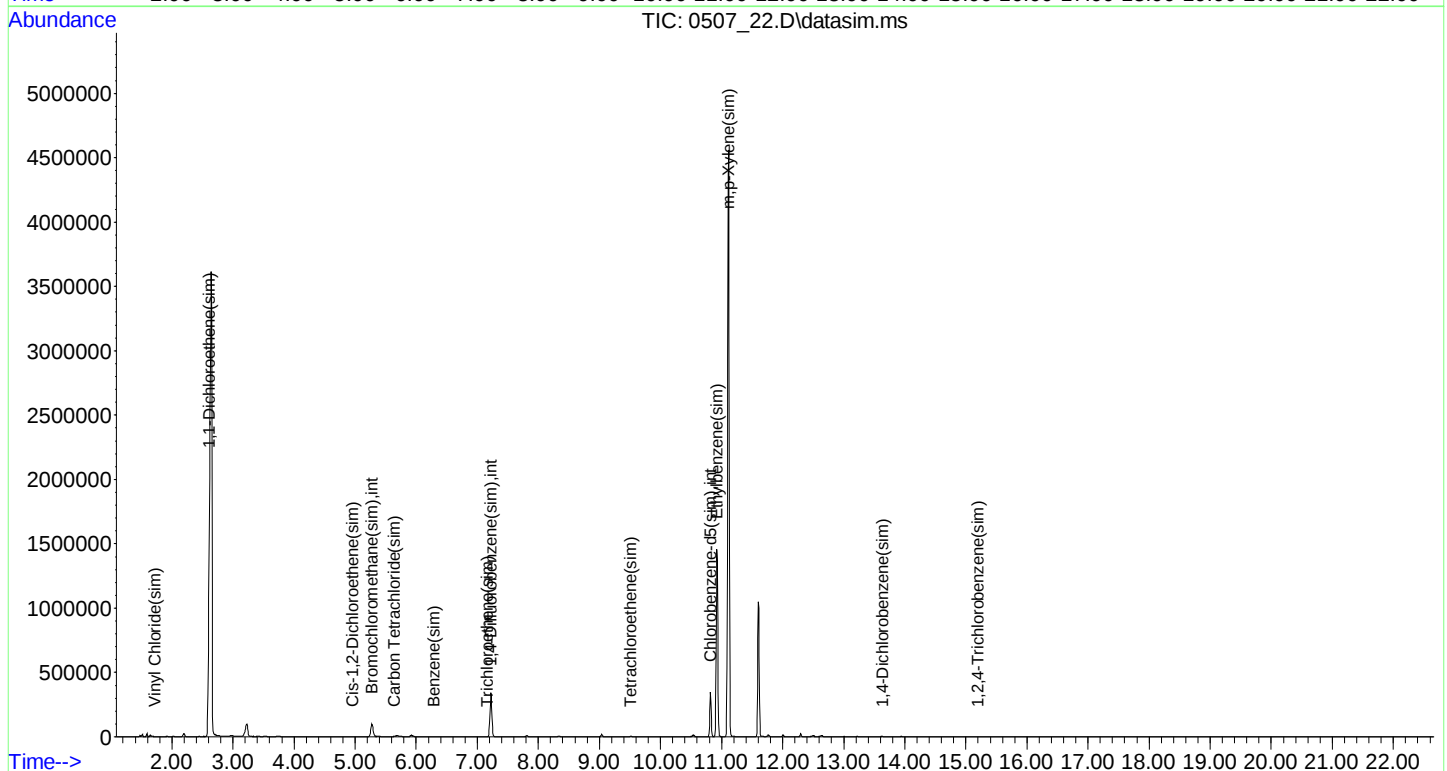
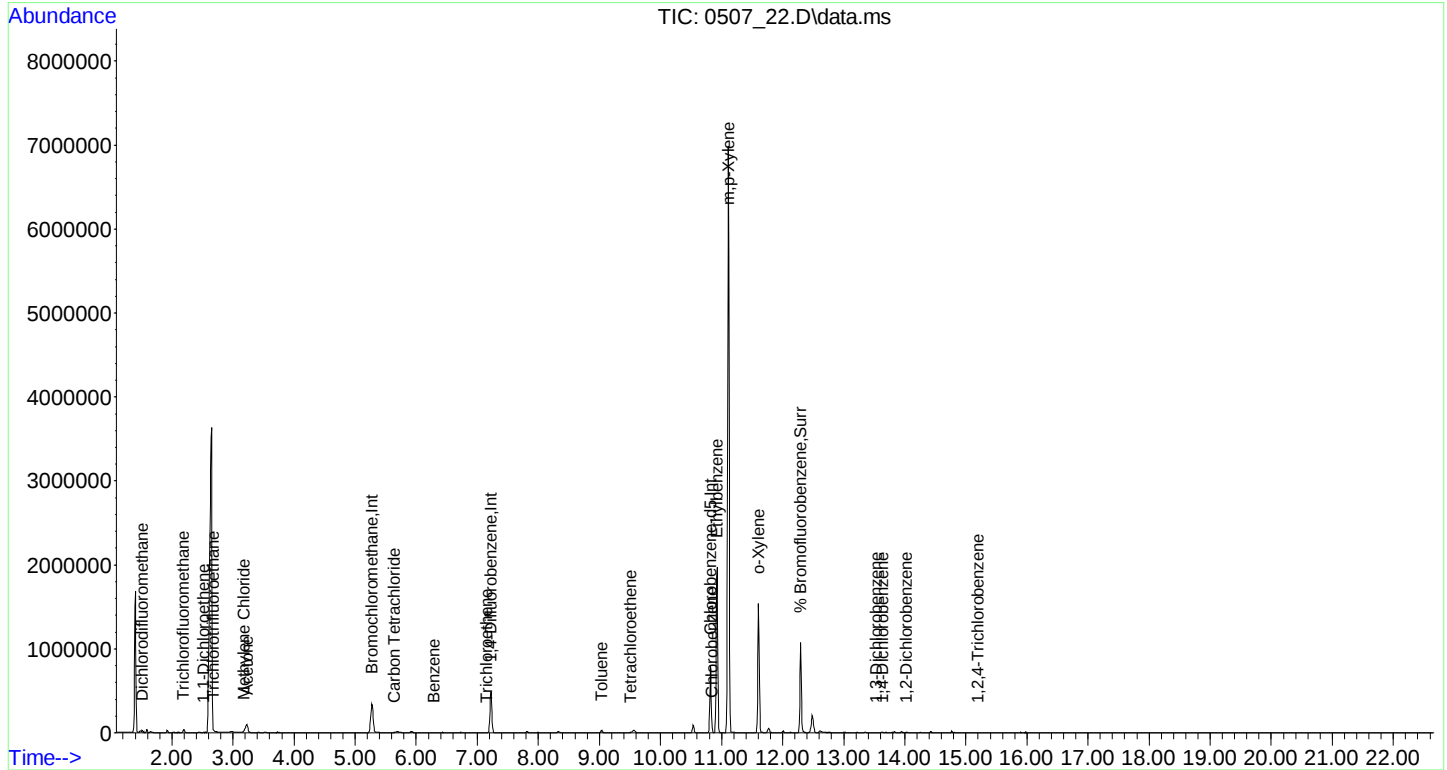
Quant Time: May 08 14:51:51 2021
 Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Thu Apr 22 08:23:13 2021
 Response via : Initial Calibration

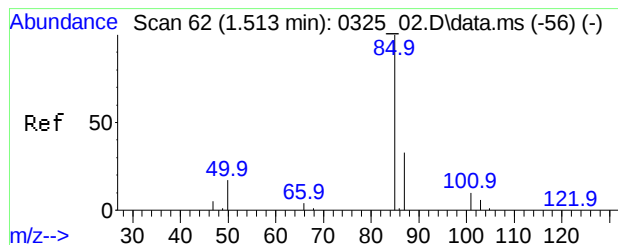
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.274	130	130340	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.226	114	412447	10.000	ng	-0.01
53) Chlorobenzene-d5	10.818	82	217552	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.277	130	136347	10.000	ng	#-0.01
95) 1,4-Difluorobenzene(sim)	7.226	114	412447	10.000	ng	-0.01
105) Chlorobenzene-d5(sim)	10.818	82	217552	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.298	95	319295	10.465	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	= 104.60%	
Target Compounds						
					Qvalue	
3) Dichlorodifluoromethane	1.512	85	11642	0.403	ppbv	99
12) Acetone	3.231	43	109001	3.201	ppbv	99
13) Trichlorofluoromethane	2.191	101	13619	0.399	ppbv	100
17) Methylene Chloride	3.183	49	14296	0.617	ppbv#	85
34) Carbon Tetrachloride	5.642	117	2700	0.083	ppbv	99
48) Toluene	9.041	91	17763	0.465	ppbv	98
52) Tetrachloroethene	9.510	166	1177	0.050	ppbv	85
56) Ethylbenzene	10.927	91	1320373	24.529	ppbv	89
57) m, p-Xylene	11.113	91	3646049	88.596	ppbv	98
61) o-Xylene	11.607	91	825882	18.537	ppbv	99
84] Trichlorofluoromethane...	2.187	101	14335	0.372	ppbv	99
86] Benzene(sim)	6.291	78	1808	0.048	ppbv	90
87] Carbon Tetrachloride(sim)	5.642	117	2554	0.075	ppbv#	39
108] Ethylbenzene(sim)	10.923	91	1477929	23.348	ppb	99
109] m, p-Xylene(sim)	11.113	91	3648244	85.559	ppbv	98
110] o-Xylene(sim)	11.603	91	926735	17.927	ppb	98

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

Data Path : H:\AIR2021\CHEM24\05MAY\07\
Data File : 0507_22.D
Acq On : 8 May 2021 4:20 am
Operator : Keith
Client ID : 26489 356cc dup
Lab ID : CI26489 DUP
ALS Vial : 21 Sample Multiplier: 1

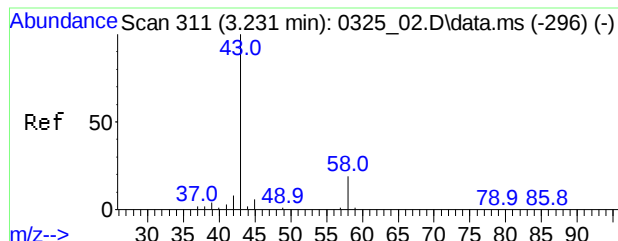
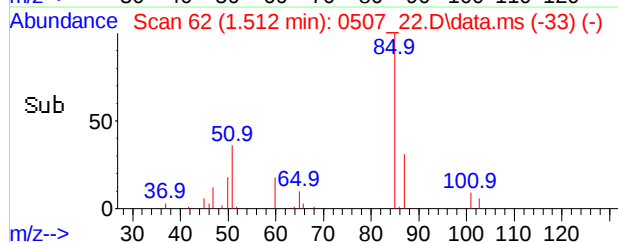
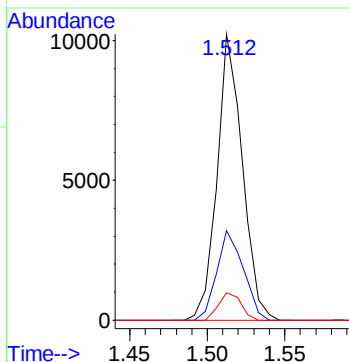
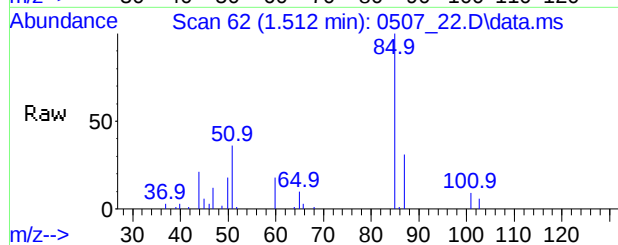
Quant Time: May 08 14:51:51 2021
Quant Method : H:\AIR2021\CHEM24\METHODS\24AIR_0421.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Apr 22 08:23:13 2021
Response via : Initial Calibration





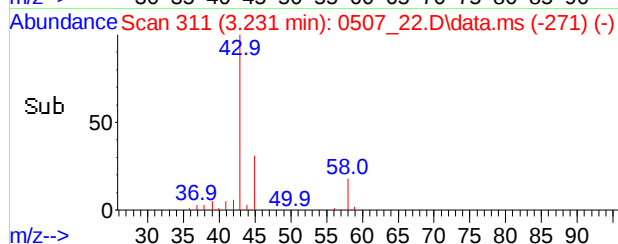
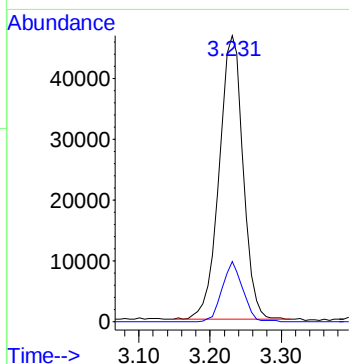
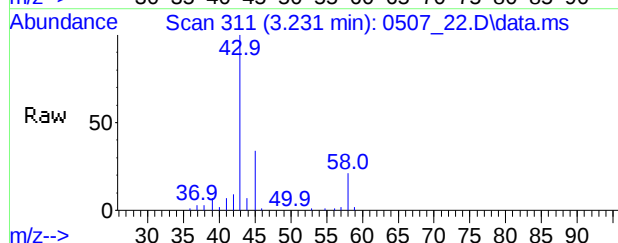
#3
Dichlorodifluoromethane
Conc: 8\$ 0.403 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

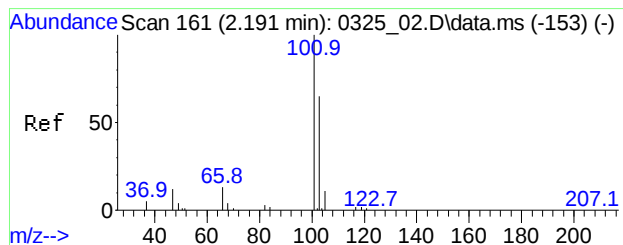
Tgt Ion: 85 Resp: 11642
Ion Ratio Lower Upper
85 100
87 32.7 25.8 38.8
101 8.5 7.3 10.9



#12
Acetone
Conc: 8\$ 3.201 ppbv
RT: 3.231 min Scan# 311
Delta R.T. -0.027 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

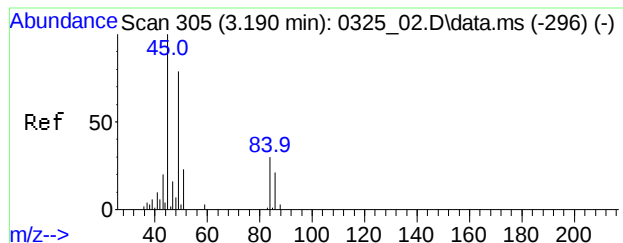
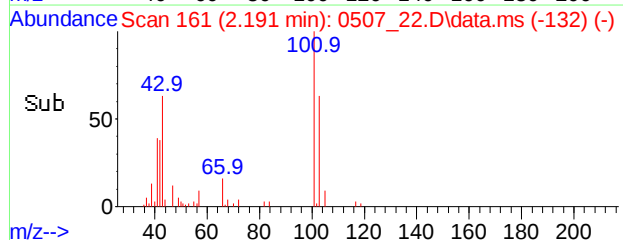
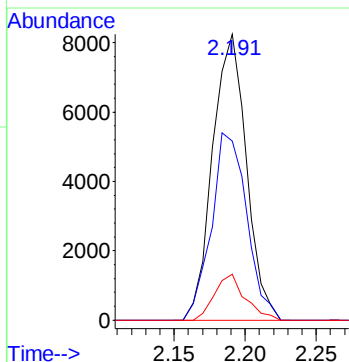
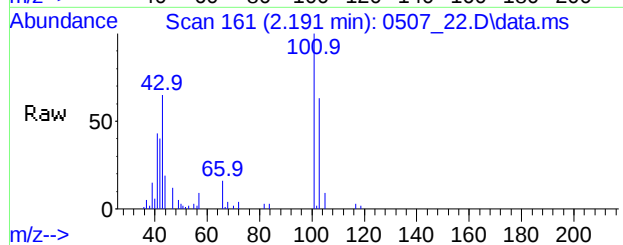
Tgt Ion: 43 Resp: 109001
Ion Ratio Lower Upper
43 100
58 18.1 15.0 22.4





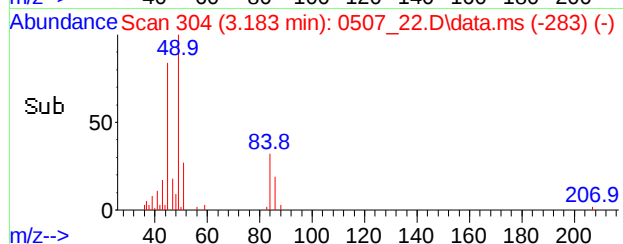
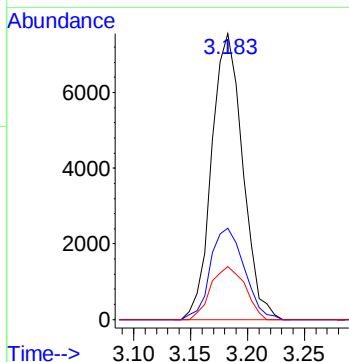
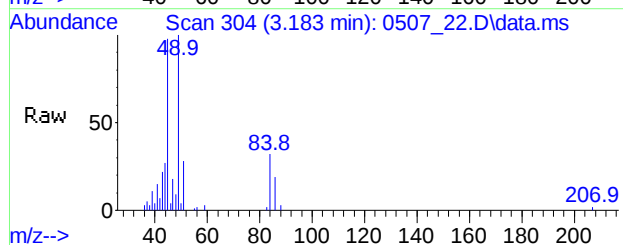
#13
Trichlorofluoromethane
Conc: 8\$ 0.399 ppbv
RT: 2.191 min Scan# 161
Delta R.T. -0.000 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

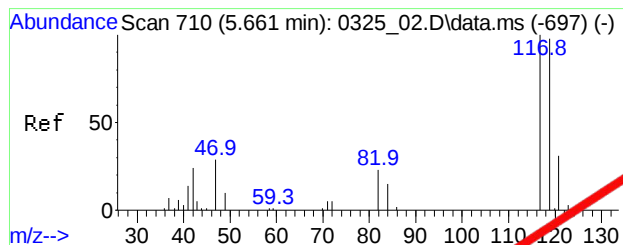
Tgt Ion: 101 Resp: 13619
Ion Ratio Lower Upper
101 100
103 68.4 54.6 82.0
66 14.5 12.2 18.4



#17
Methylene Chloride
Conc: 8\$ 0.617 ppbv
RT: 3.183 min Scan# 304
Delta R.T. -0.007 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

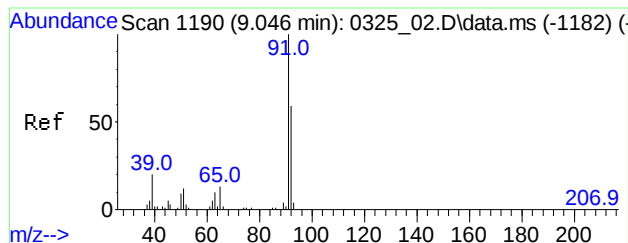
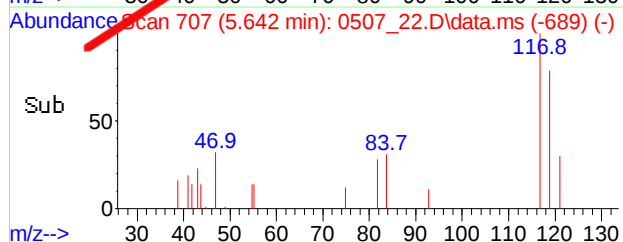
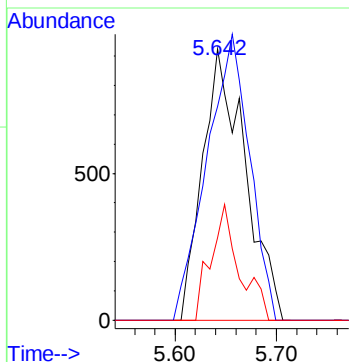
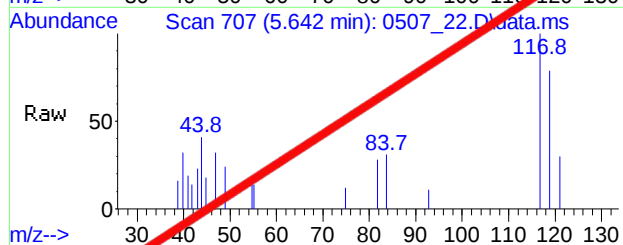
Tgt Ion: 49 Resp: 14296
Ion Ratio Lower Upper
49 100
84 35.1 36.2 54.2#
86 20.4 22.3 33.5#





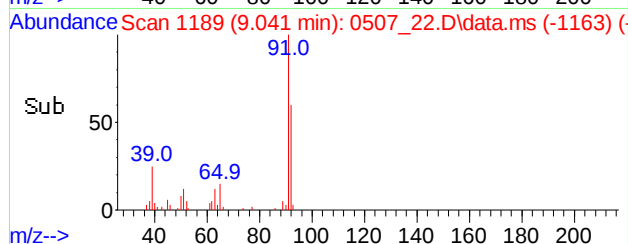
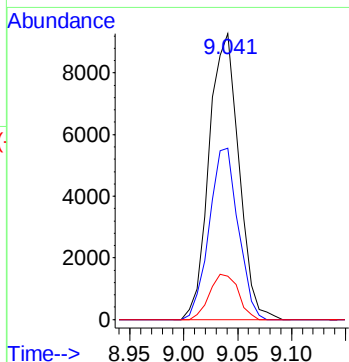
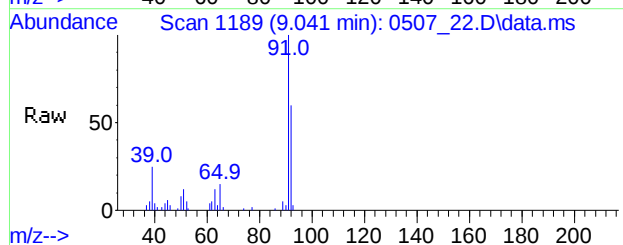
#34
Carbon Tetrachloride
Conc: 8% Below Cal
RT: 5.642 min Scan# 707
Delta R.T. -0.019 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

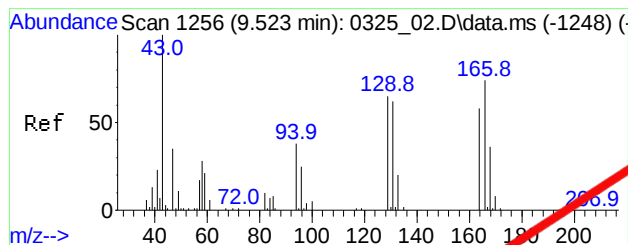
Tgt Ion	Ratio	Lower	Upper
117	100		
119	105.6	85.1	125.1
121	28.6	11.0	51.0



#48
Toluene
Conc: 8% 0.465 ppbv
RT: 9.041 min Scan# 1189
Delta R.T. -0.012 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

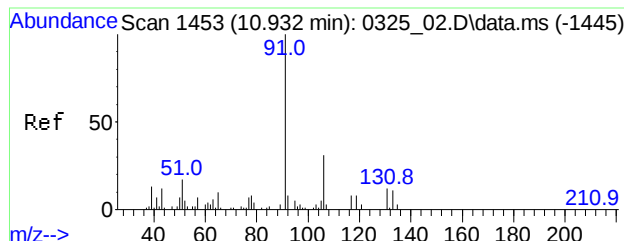
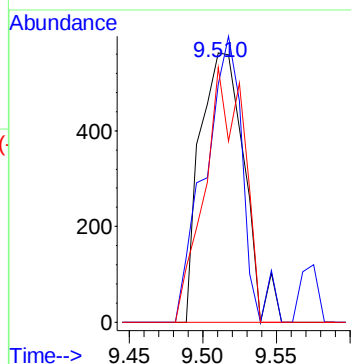
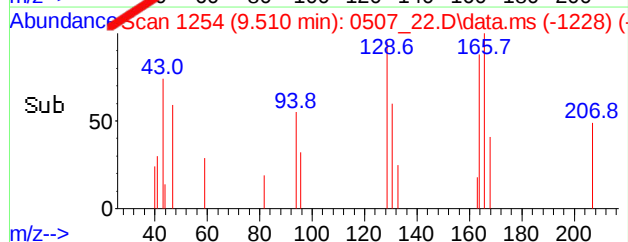
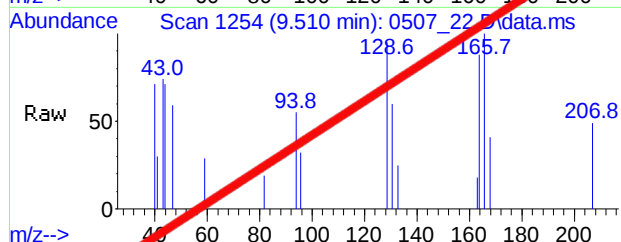
Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.4	47.4	71.2
65	15.2	10.2	15.4





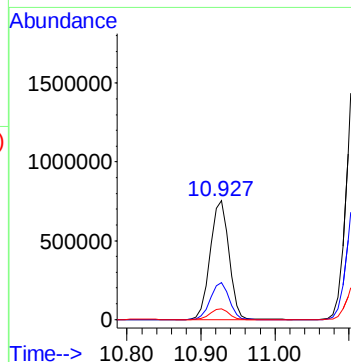
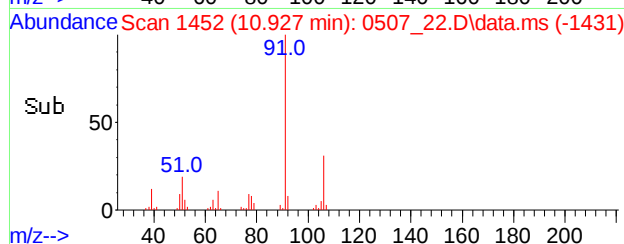
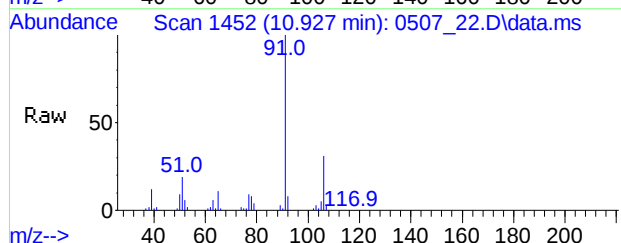
#52
Tetrachloroethene
Conc: 8\$ Below Cal
RT: 9.510 min Scan# 1254
Delta R.T. -0.013 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

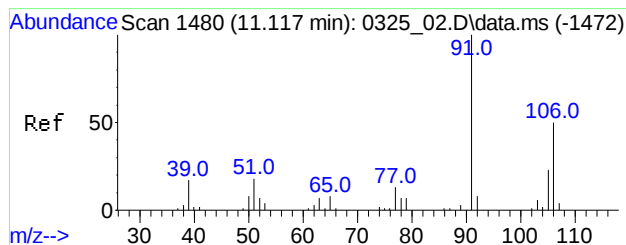
Tgt Ion: 166 Resp: 1177
Ion Ratio Lower Upper
166 100
164 91.9 63.2 94.8
129 84.5 56.9 85.3



#56
Ethylbenzene
Conc: 8\$ 24.529 ppbv
RT: 10.927 min Scan# 1452
Delta R.T. -0.005 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

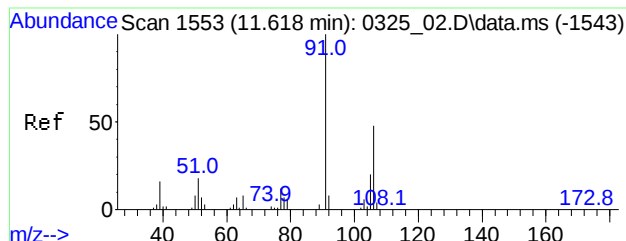
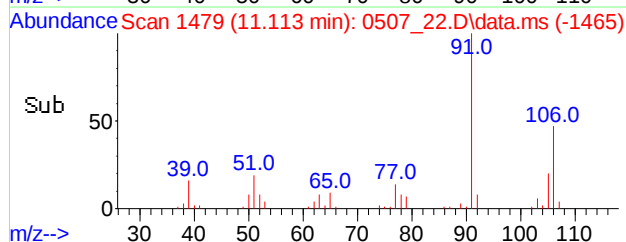
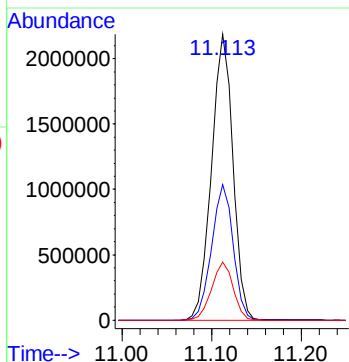
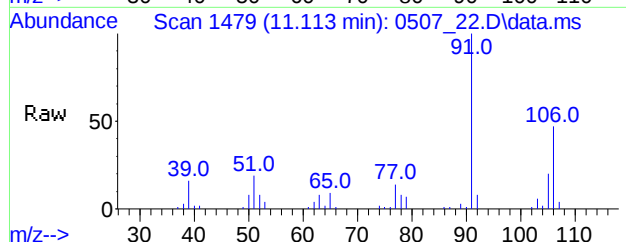
Tgt Ion: 91 Resp: 1320373
Ion Ratio Lower Upper
91 100
106 30.9 17.7 57.7
77 9.0 0.0 32.7





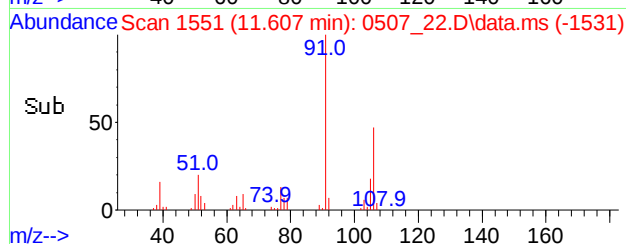
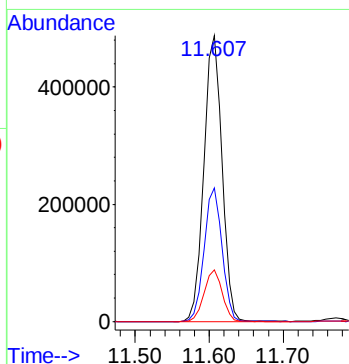
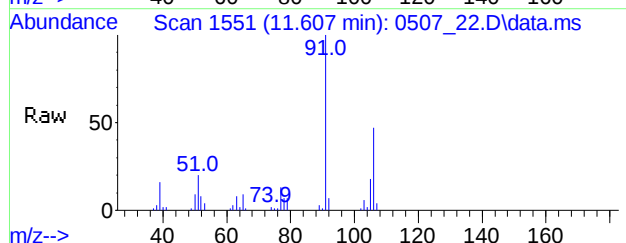
#57
m,p-Xylene
Conc: 8\$ 88.596 ppbv
RT: 11.113 min Scan# 1479
Delta R.T. -0.004 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

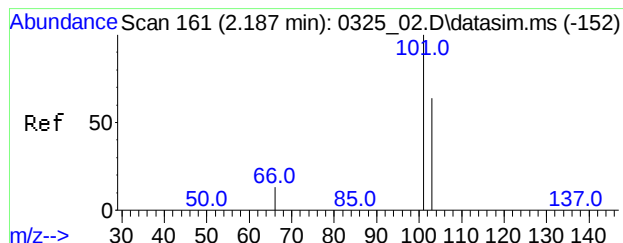
Tgt Ion: 91 Resp: 3646049
Ion Ratio Lower Upper
91 100
106 47.7 39.4 59.2
105 20.4 16.8 25.2



#61
o-Xylene
Conc: 8\$ 18.537 ppbv
RT: 11.607 min Scan# 1551
Delta R.T. -0.011 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

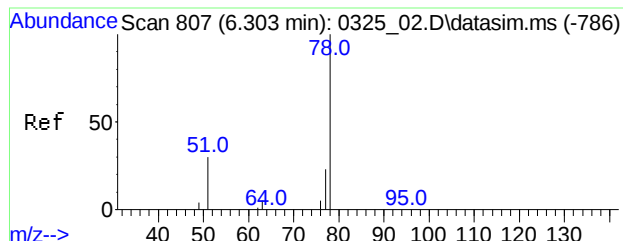
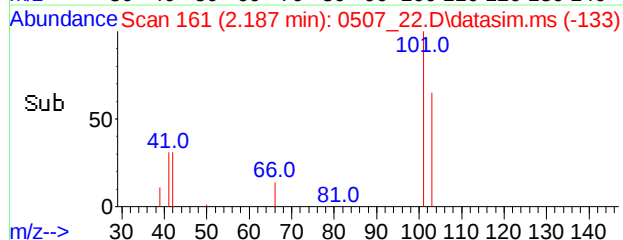
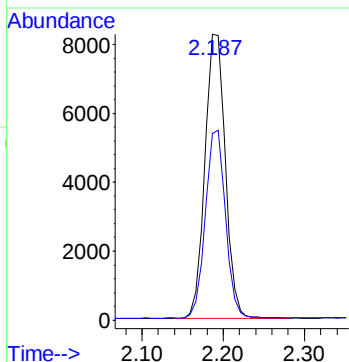
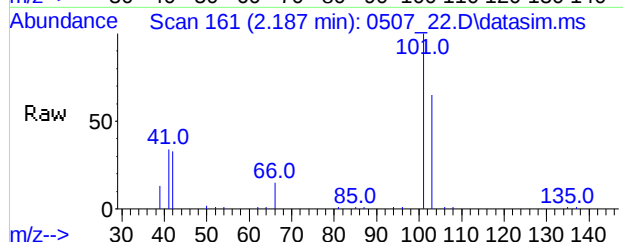
Tgt Ion: 91 Resp: 825882
Ion Ratio Lower Upper
91 100
106 46.2 37.5 56.3
105 18.0 13.5 20.3





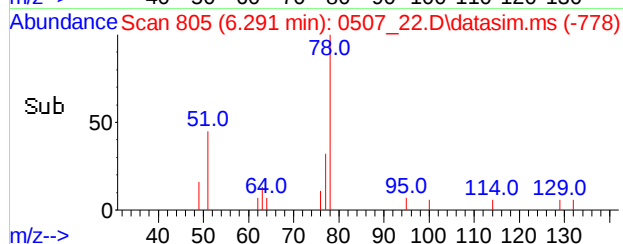
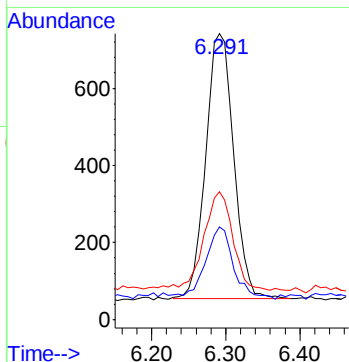
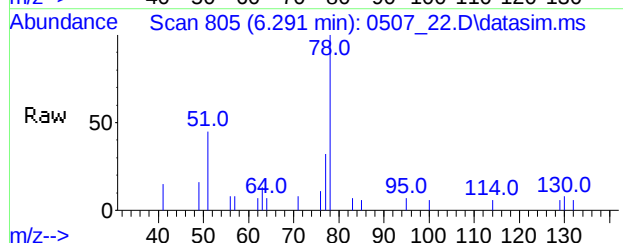
#84
Trichlorofluoromethane(sim)
Conc: 8\$ 0.372 ppbv
RT: 2.187 min Scan# 161
Delta R.T. -0.007 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

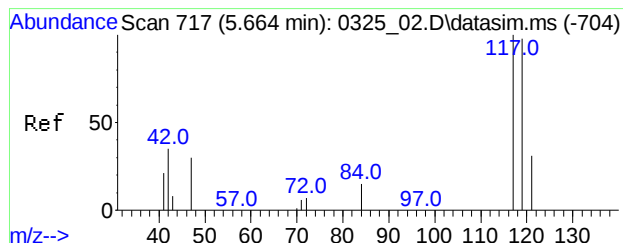
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.1	52.6	78.8



#86
Benzene(sim)
Conc: 8\$ Below Cal
RT: 6.291 min Scan# 805
Delta R.T. -0.012 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

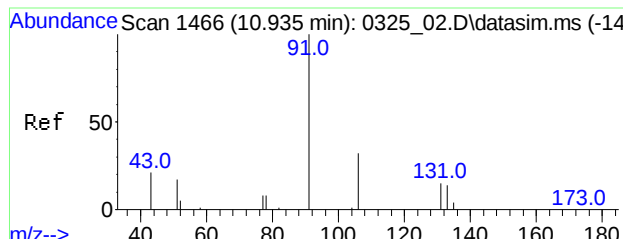
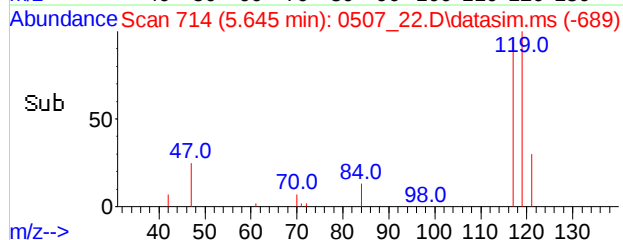
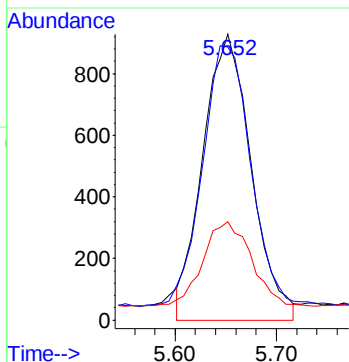
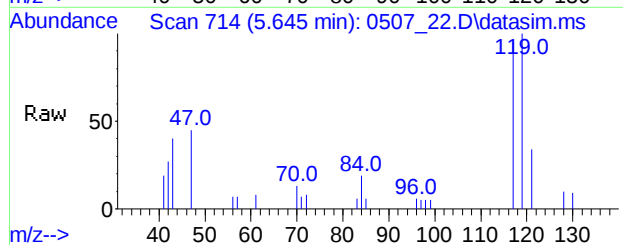
Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.0	18.6	28.0
51	37.9	25.4	38.2





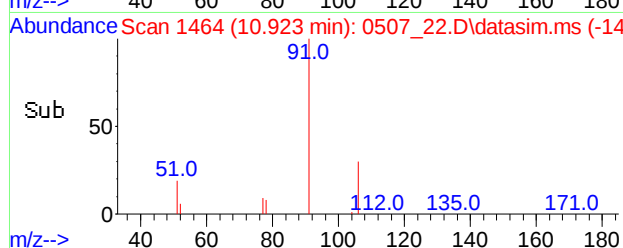
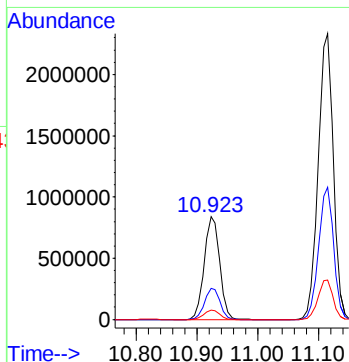
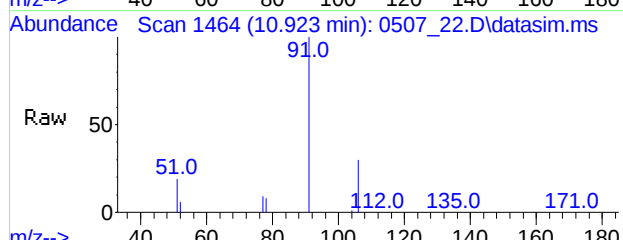
#87
Carbon Tetrachloride(sim)
Conc: 8\$ 0.075 ppbv
RT: 5.642 min Scan# 714
Delta R.T. -0.019 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

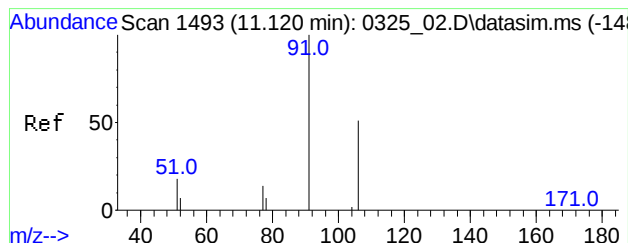
Tgt Ion: 117 Resp: 2554
Ion Ratio Lower Upper
117 100
119 40.0 84.7 127.1#
121 0.0 21.1 31.7#



#108
Ethylbenzene(sim)
Conc: 8\$ 23.348 ppb
RT: 10.923 min Scan# 1464
Delta R.T. -0.012 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

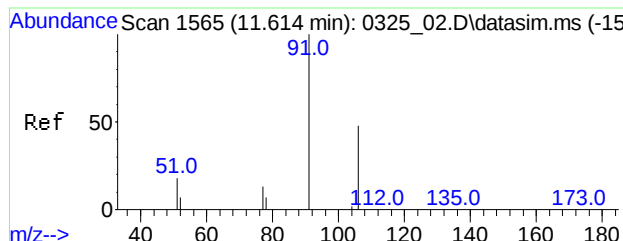
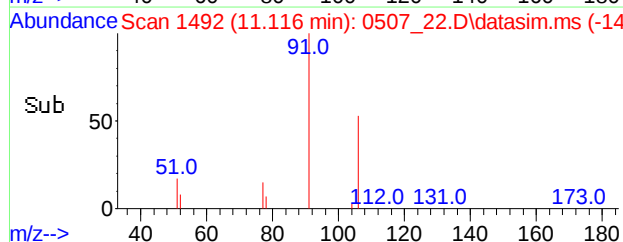
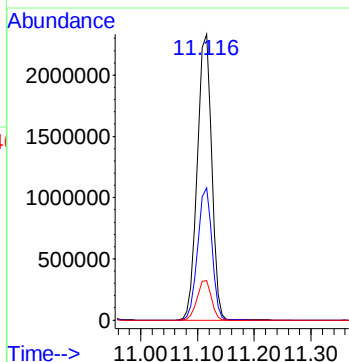
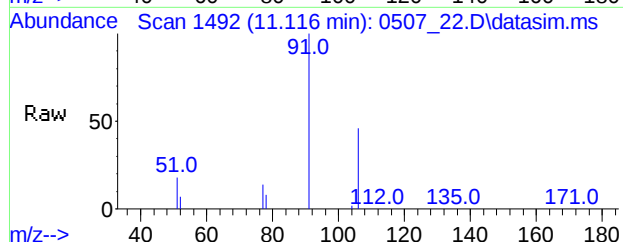
Tgt Ion: 91 Resp: 1477929
Ion Ratio Lower Upper
91 100
106 30.2 24.8 37.2
77 9.1 7.5 11.3





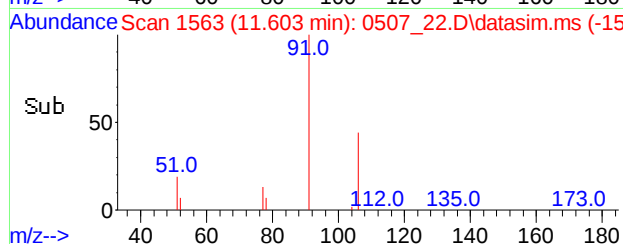
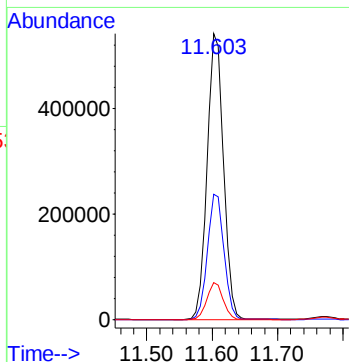
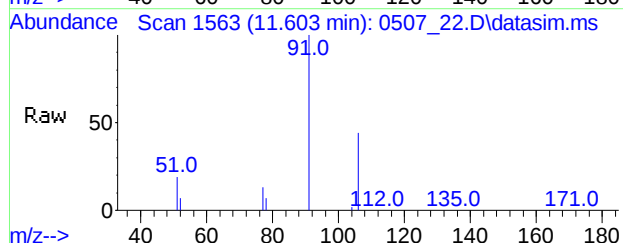
#109
m,p-Xylene(sim)
Conc: 8\$ 85.559 ppbv
RT: 11.113 min Scan# 1492
Delta R.T. -0.004 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

Tgt Ion: 91 Resp: 3648244
Ion Ratio Lower Upper
91 100
106 47.7 44.4 54.2
77 13.9 11.7 17.5



#110
o-Xylene(sim)
Conc: 8\$ 17.927 ppb
RT: 11.603 min Scan# 1563
Delta R.T. -0.011 min
Lab File: 0507_22.D
Acq: 8 May 2021 4:20 am

Tgt Ion: 91 Resp: 926735
Ion Ratio Lower Upper
91 100
106 44.2 36.6 54.8
77 12.8 10.1 15.1



Data Path : H:\AIR2021\CHEM20\03MAR\05\
 Data File : 0305_04.D
 Acq On : 5 Mar 2021 10:22 am
 Operator :
 Client ID : IND CAN CERT 13634
 Lab ID : IND CAN CERT 13634
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 08 10:00:03 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0226.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 01 08:40:43 2021
 Response via : Initial Calibration

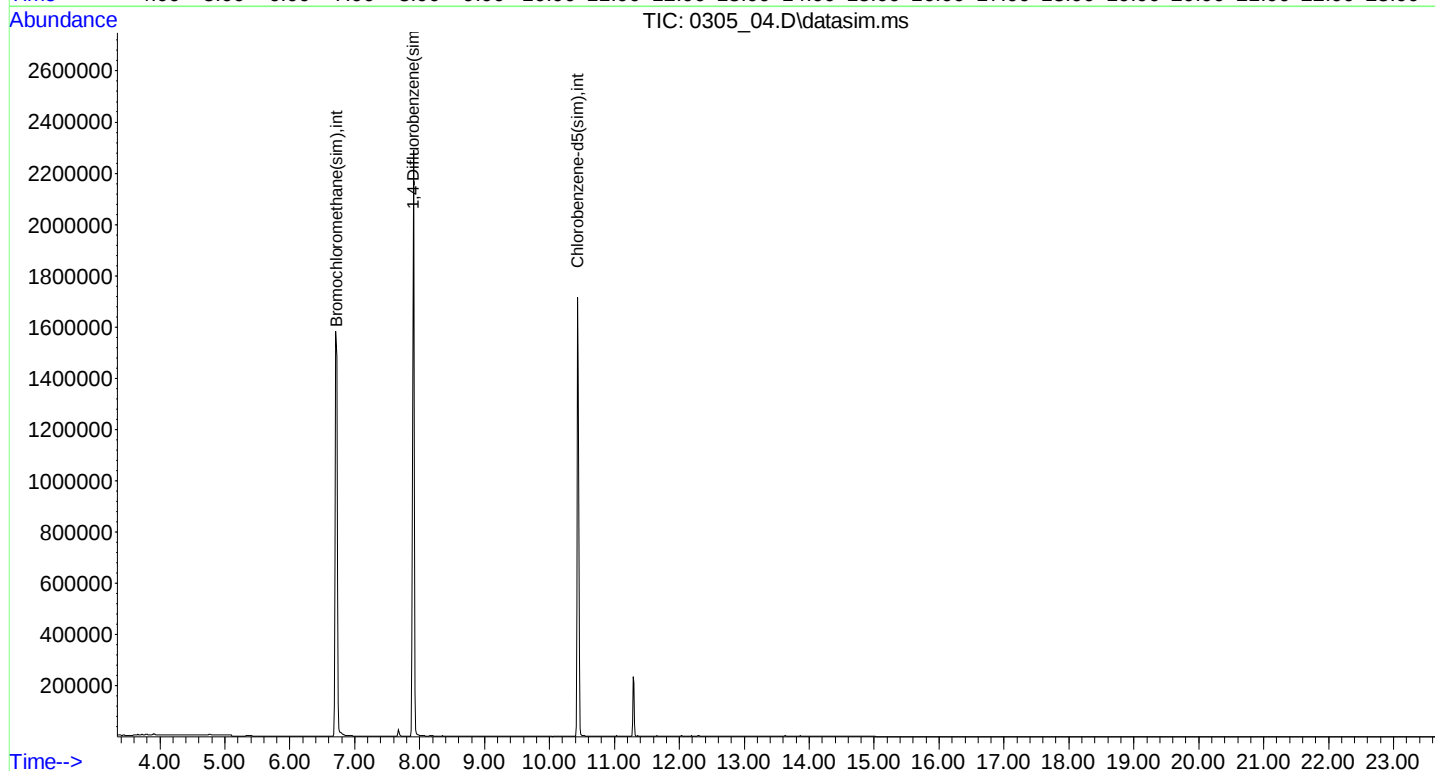
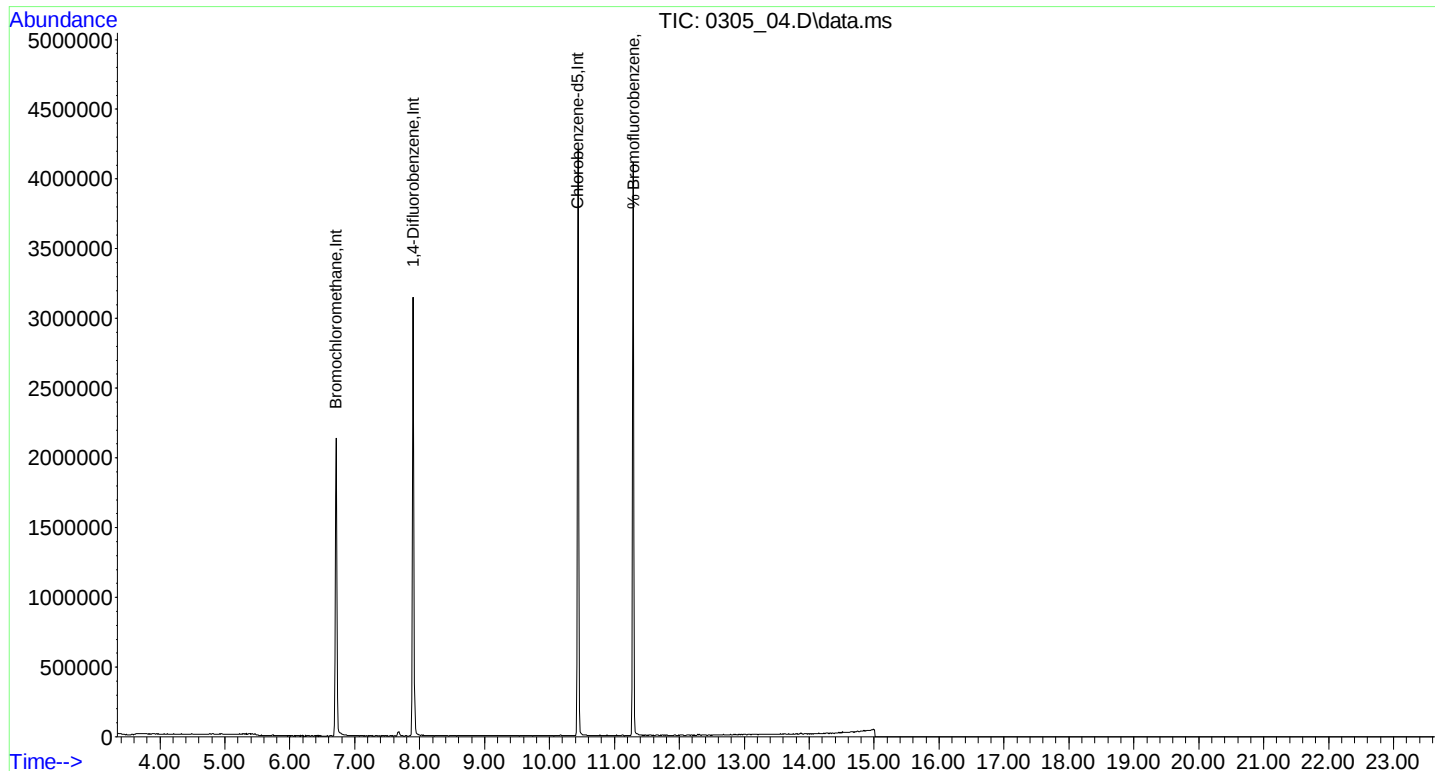
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

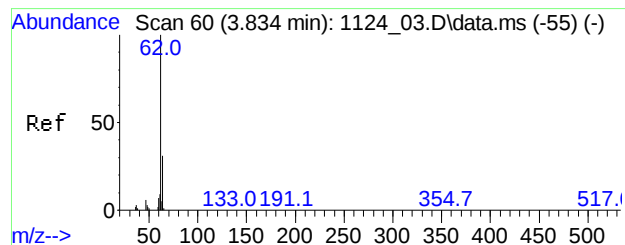
Internal Standards						
1) Bromochloromethane	6.715	130	511112	10.000	ng	-0.01
37) 1,4-Difluorobenzene	7.900	114	1884032	10.000	ng	-0.01
54) Chlorobenzene-d5	10.440	82	869171	10.000	ng	0.00
81) Bromochloromethane(sim)	6.720	130	582051	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.900	114	1882678	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	10.440	82	869171	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.291	95	997309	9.761	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.60%
Target Compounds						
6) Vinyl Chloride	3.812	62	371	0.006	ppbv#	43

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

Data Path : H:\AIR2021\CHEM20\03MAR\05\
Data File : 0305_04.D
Acq On : 5 Mar 2021 10:22 am
Operator :
Client ID : IND CAN CERT 13634
Lab ID : IND CAN CERT 13634
ALS Vial : 4 Sample Multiplier: 1

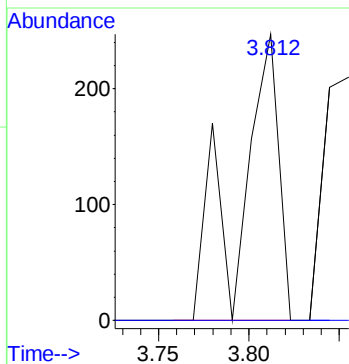
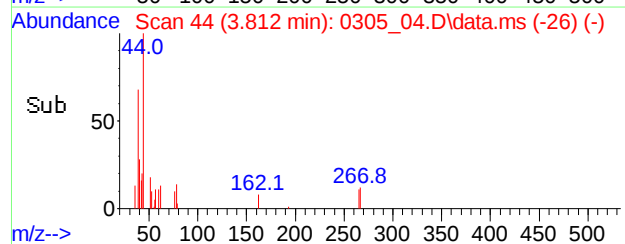
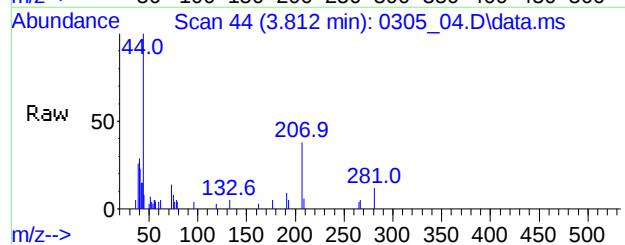
Quant Time: Mar 08 10:00:03 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0226.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 01 08:40:43 2021
Response via : Initial Calibration





#6
 Vinyl Chloride
 Conc: 8% Below Cal
 RT: 3.812 min Scan# 44
 Delta R.T. -0.011 min
 Lab File: 0305_04.D
 Acq: 5 Mar 2021 10:22 am

Tgt Ion: 62 Resp: 371
 Ion Ratio Lower Upper
 62 100
 64 0.0 11.5 51.5#



IND CAN CERT 21339

ppbv

CAS NO.

COMPOUND

CONC.

Q

MDL

PQL

R

Data Path : H:\AIR2021\CHEM20\04APR\19\
 Data File : 0419_19.D
 Acq On : 20 Apr 2021 12:20 am
 Operator :
 Client ID : IND CAN CERT 21339
 Lab ID : IND CAN CERT 21339
 ALS Vial : 53 Sample Multiplier: 1

Quant Time: Apr 20 08:42:41 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 20 08:39:08 2021
 Response via : Initial Calibration

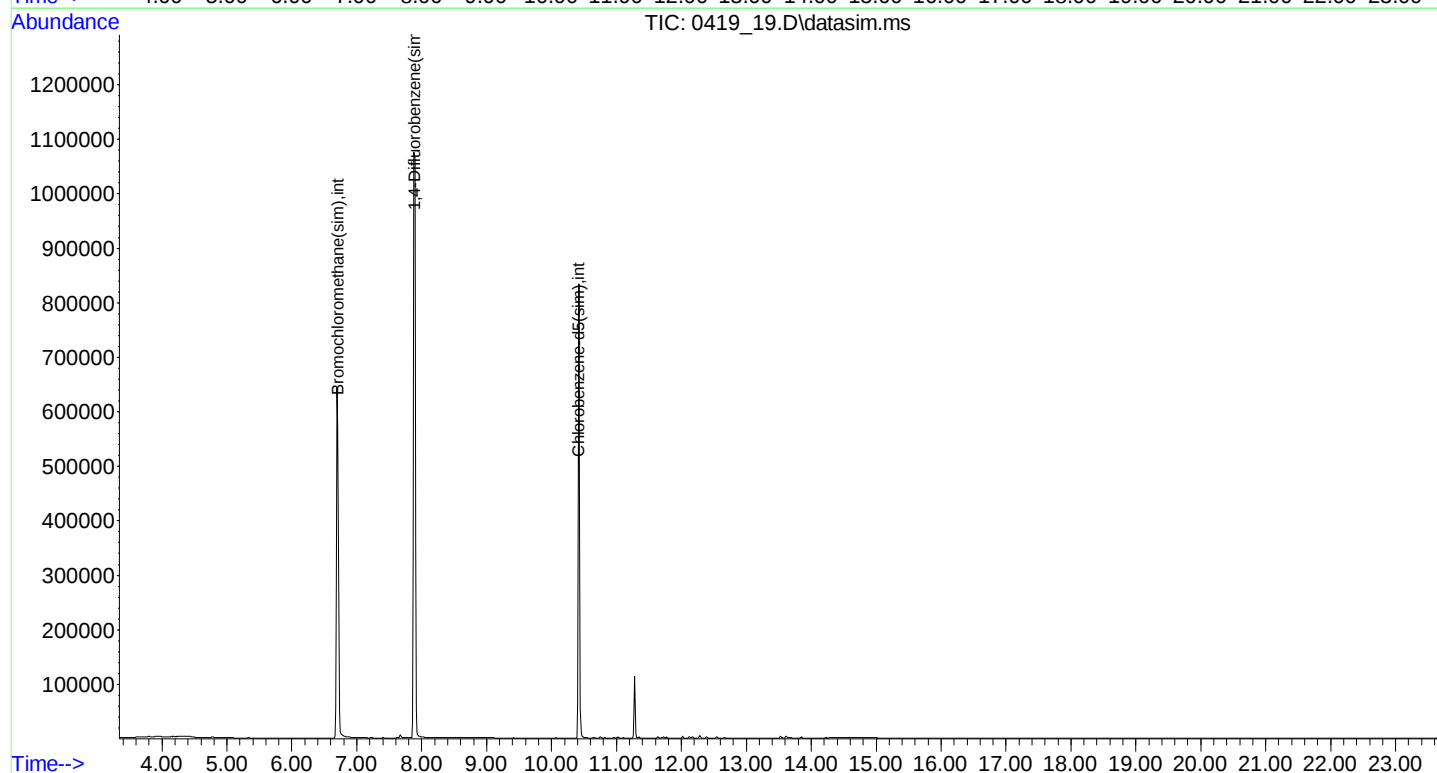
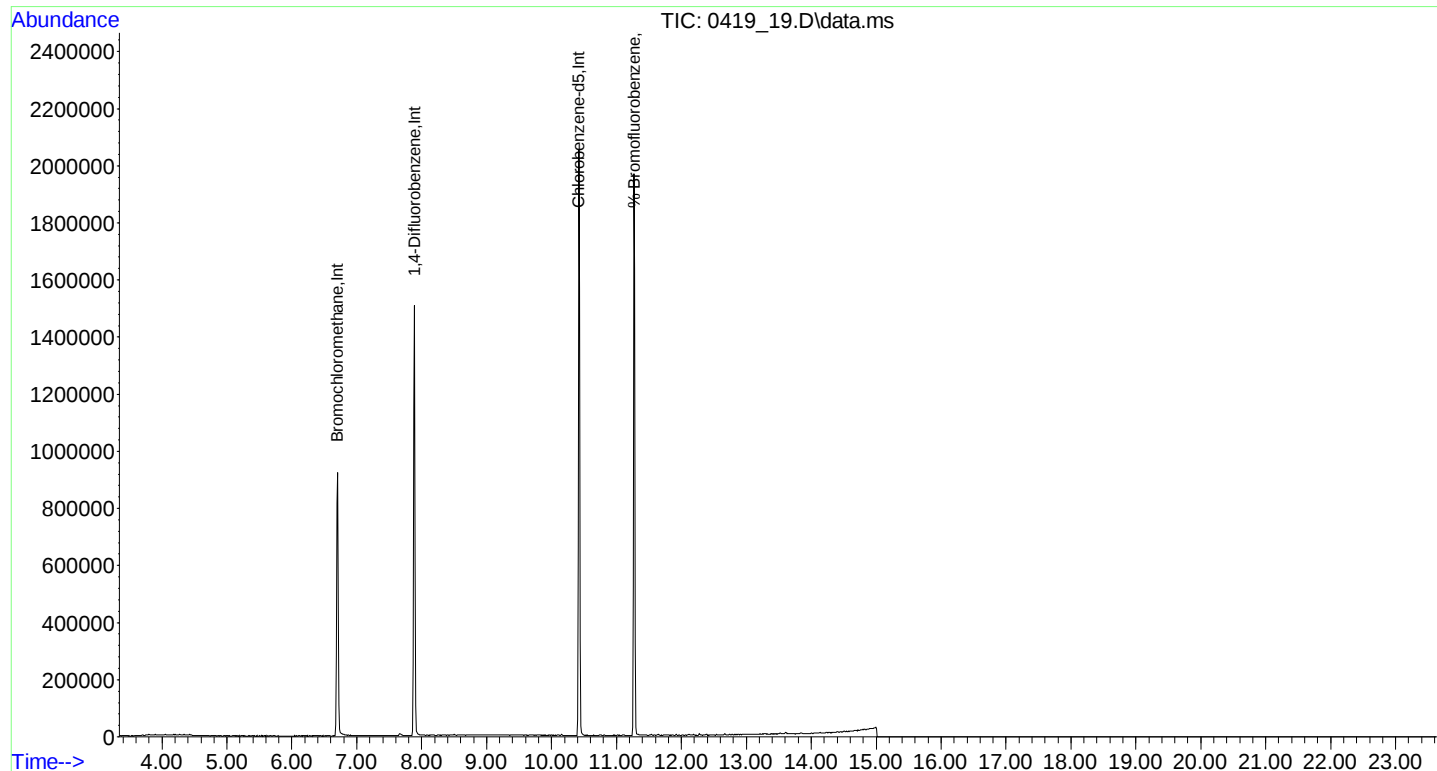
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.704	130	309597	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.889	114	1097043	10.000	ng	0.00
54) Chlorobenzene-d5	10.420	82	469352	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	337846	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.889	114	1095621	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.420	82	469352	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.270	95	571127	9.809	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.10%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\04APR\19\
Data File : 0419_19.D
Acq On : 20 Apr 2021 12:20 am
Operator :
Client ID : IND CAN CERT 21339
Lab ID : IND CAN CERT 21339
ALS Vial : 53 Sample Multiplier: 1

Quant Time: Apr 20 08:42:41 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 20 08:39:08 2021
Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0419 29.D

Purge Volume 200 (cc) Date Analyzed: 04/20/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

FORM I AIR

Data Path : H:\AIR2021\CHEM20\04APR\19\
 Data File : 0419_29.D
 Acq On : 20 Apr 2021 6:50 am
 Operator :
 Client ID : IND CAN CERT 23328
 Lab ID : IND CAN CERT 23328
 ALS Vial : 63 Sample Multiplier: 1

Quant Time: Apr 20 08:45:21 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 20 08:39:08 2021
 Response via : Initial Calibration

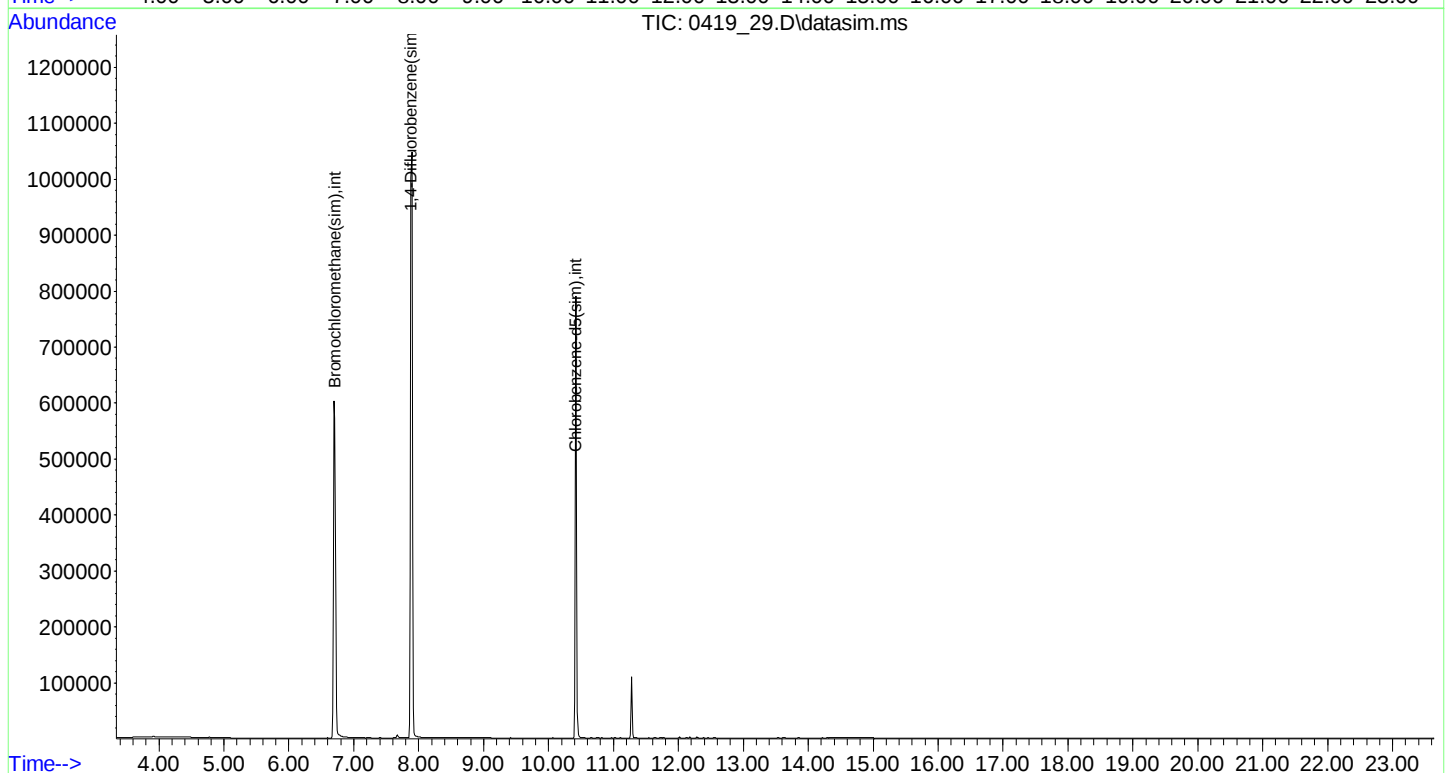
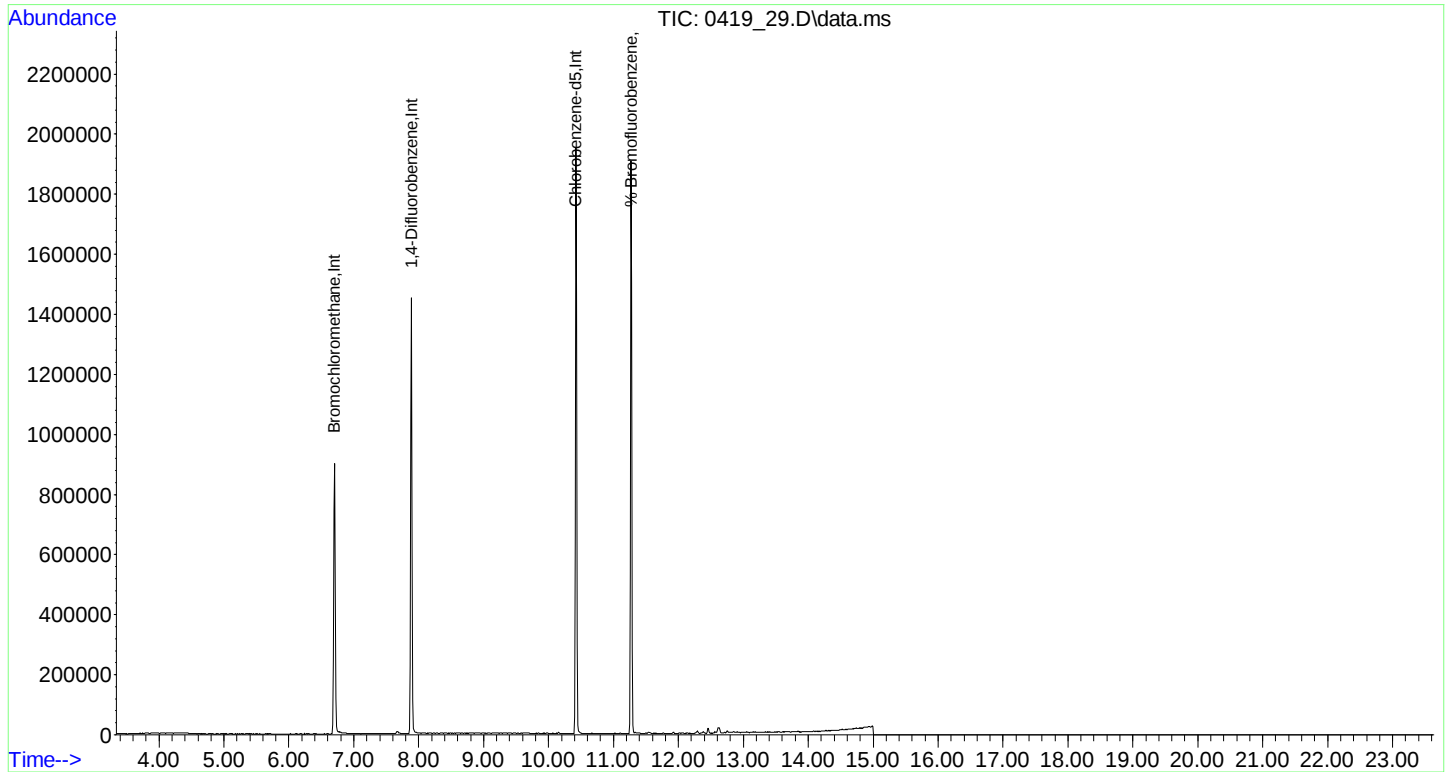
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.704	130	293518	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.889	114	1036828	10.000	ng	0.00
54) Chlorobenzene-d5	10.420	82	444433	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	323816	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.889	114	1036828	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.420	82	444433	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.270	95	540583	9.805	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	98.10%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\04APR\19\
Data File : 0419_29.D
Acq On : 20 Apr 2021 6:50 am
Operator :
Client ID : IND CAN CERT 23328
Lab ID : IND CAN CERT 23328
ALS Vial : 63 Sample Multiplier: 1

Quant Time: Apr 20 08:45:21 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 20 08:39:08 2021
Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0331_05.D

Purge Volume 200 (cc) Date Analyzed: 03/31/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

FORM I AIR

Data Path : H:\AIR2021\CHEM20\03MAR\31\
 Data File : 0331_05.D
 Acq On : 31 Mar 2021 11:54 am
 Operator :
 Client ID : IND CAN CERT 23332
 Lab ID : IND CAN CERT 23332
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 13:31:53 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 29 13:12:48 2021
 Response via : Initial Calibration

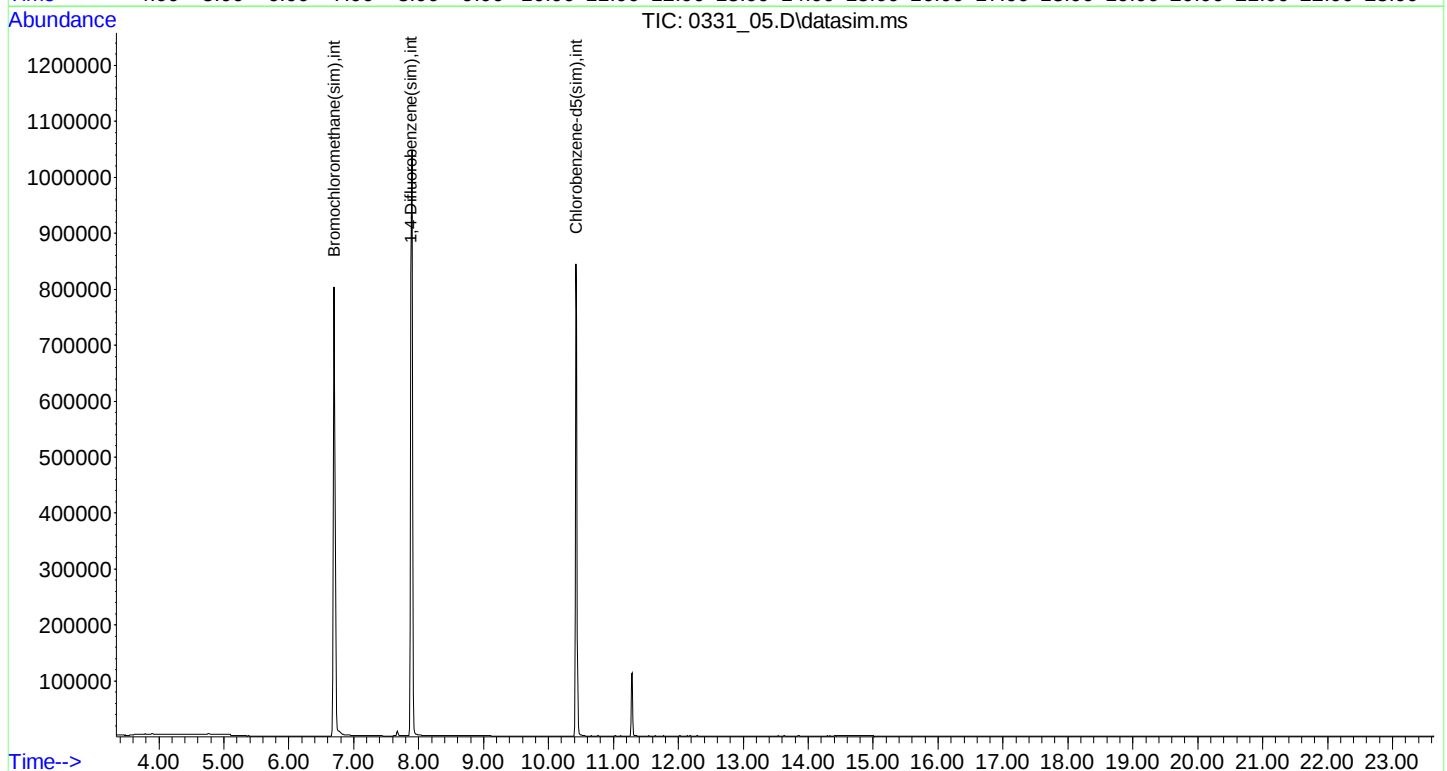
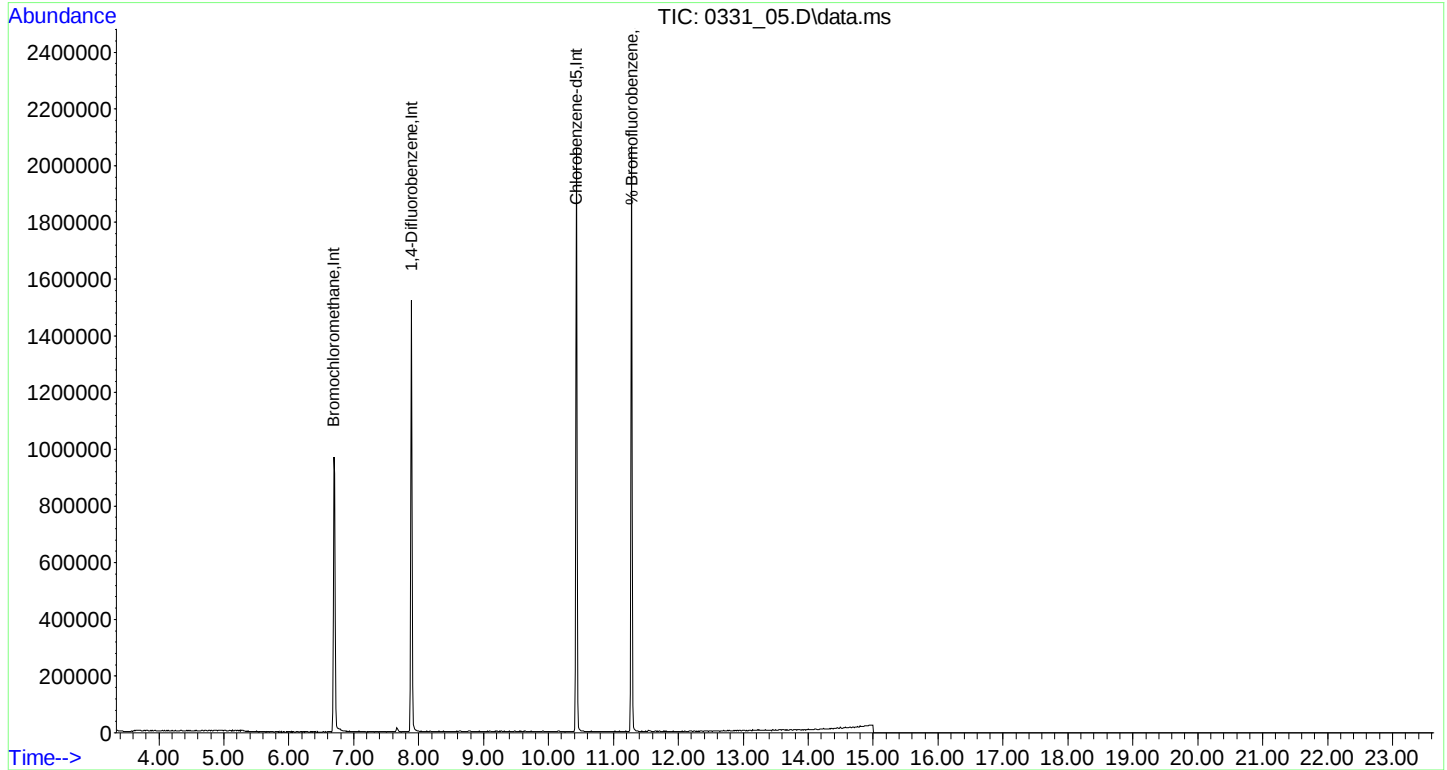
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.694	130	229306	10.000	ng	-0.01
37) 1,4-Difluorobenzene	7.889	114	859874	10.000	ng	0.00
54) Chlorobenzene-d5	10.430	82	423992	10.000	ng	0.00
81) Bromochloromethane(sim)	6.699	130	264495	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.889	114	858332	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.430	82	423992	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.281	95	482351	9.653	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.50%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\03MAR\31\
Data File : 0331_05.D
Acq On : 31 Mar 2021 11:54 am
Operator :
Client ID : IND CAN CERT 23332
Lab ID : IND CAN CERT 23332
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 31 13:31:53 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



IND CAN CERT 28548

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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

Data Path : H:\AIR2021\CHEM20\03MAR\05\
 Data File : 0305_20.D
 Acq On : 5 Mar 2021 11:09 pm
 Operator :
 Client ID : IND CAN CERT 28548
 Lab ID : IND CAN CERT 28548
 ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 08 10:03:21 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0226.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 01 08:40:43 2021
 Response via : Initial Calibration

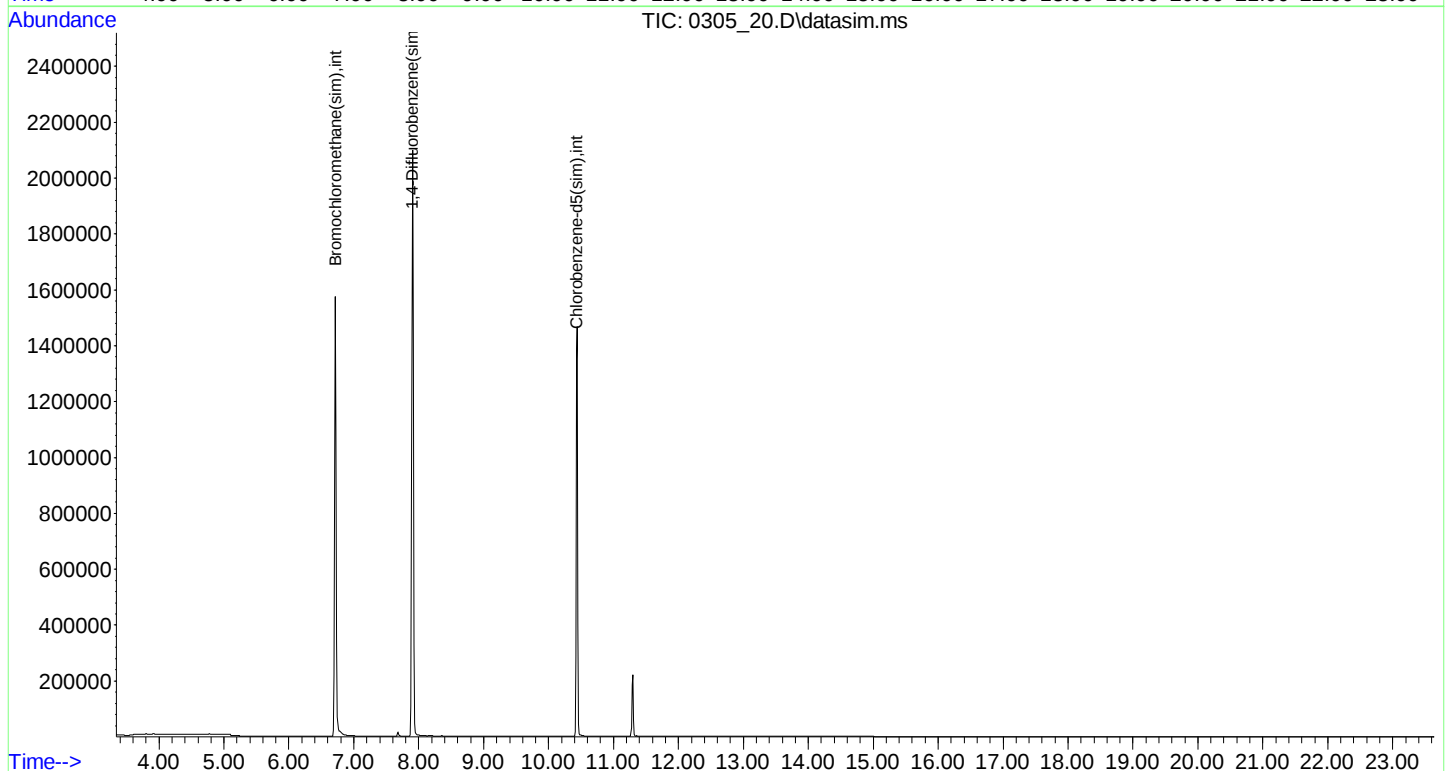
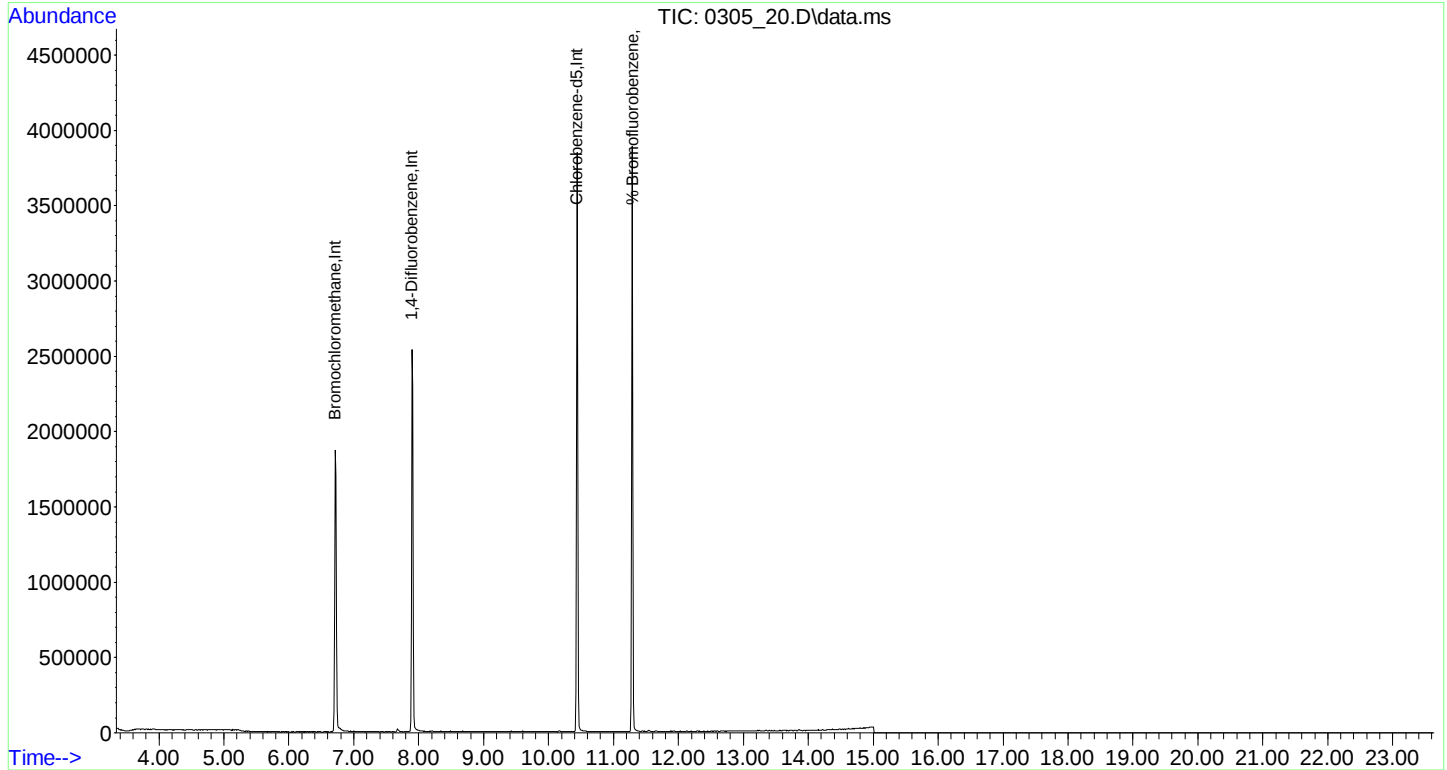
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.712	130	447276	10.000	ng	-0.01
37) 1,4-Difluorobenzene	7.897	114	1649272	10.000	ng	-0.01
54) Chlorobenzene-d5	10.438	82	753953	10.000	ng	0.00
81) Bromochloromethane(sim)	6.717	130	517757	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.897	114	1649272	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	10.438	82	753953	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.288	95	857889	9.680	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.80%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\03MAR\05\
Data File : 0305_20.D
Acq On : 5 Mar 2021 11:09 pm
Operator :
Client ID : IND CAN CERT 28548
Lab ID : IND CAN CERT 28548
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Mar 08 10:03:21 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0226.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 01 08:40:43 2021
Response via : Initial Calibration



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCI26499	Lab Sample ID:	IND CAN CERT 28580
Canister:	CANBL	Lab File ID:	0331_11.D
Instrument:	CHEM20	Column:	
Purge Volume	200 (cc)	Date Received:	
		Date Analyzed:	04/01/21
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM20\03MAR\31\
 Data File : 0331_11.D
 Acq On : 31 Mar 2021 3:47 pm
 Operator :
 Client ID : IND CAN CERT 28580
 Lab ID : IND CAN CERT 28580
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 01 08:21:52 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Mon Mar 29 13:12:48 2021
 Response via : Initial Calibration

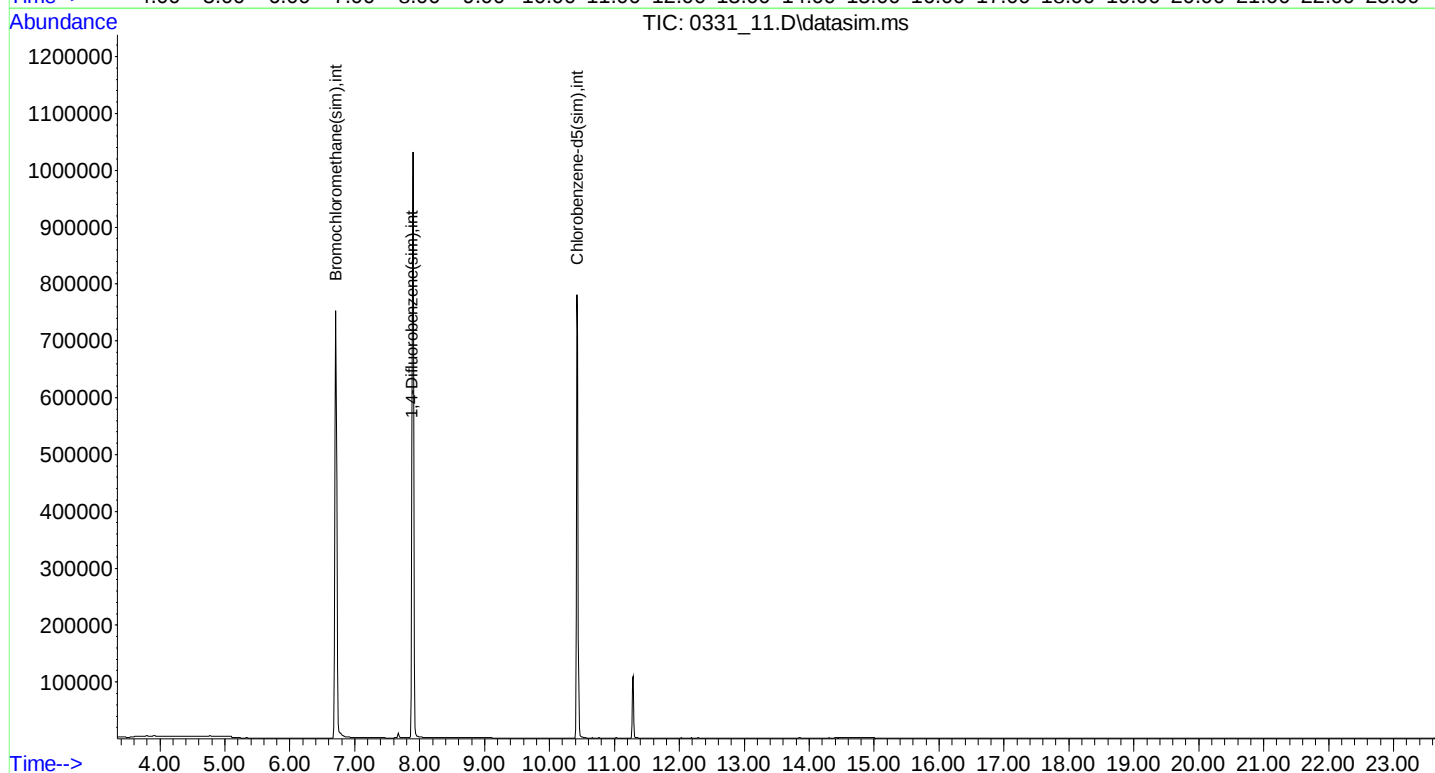
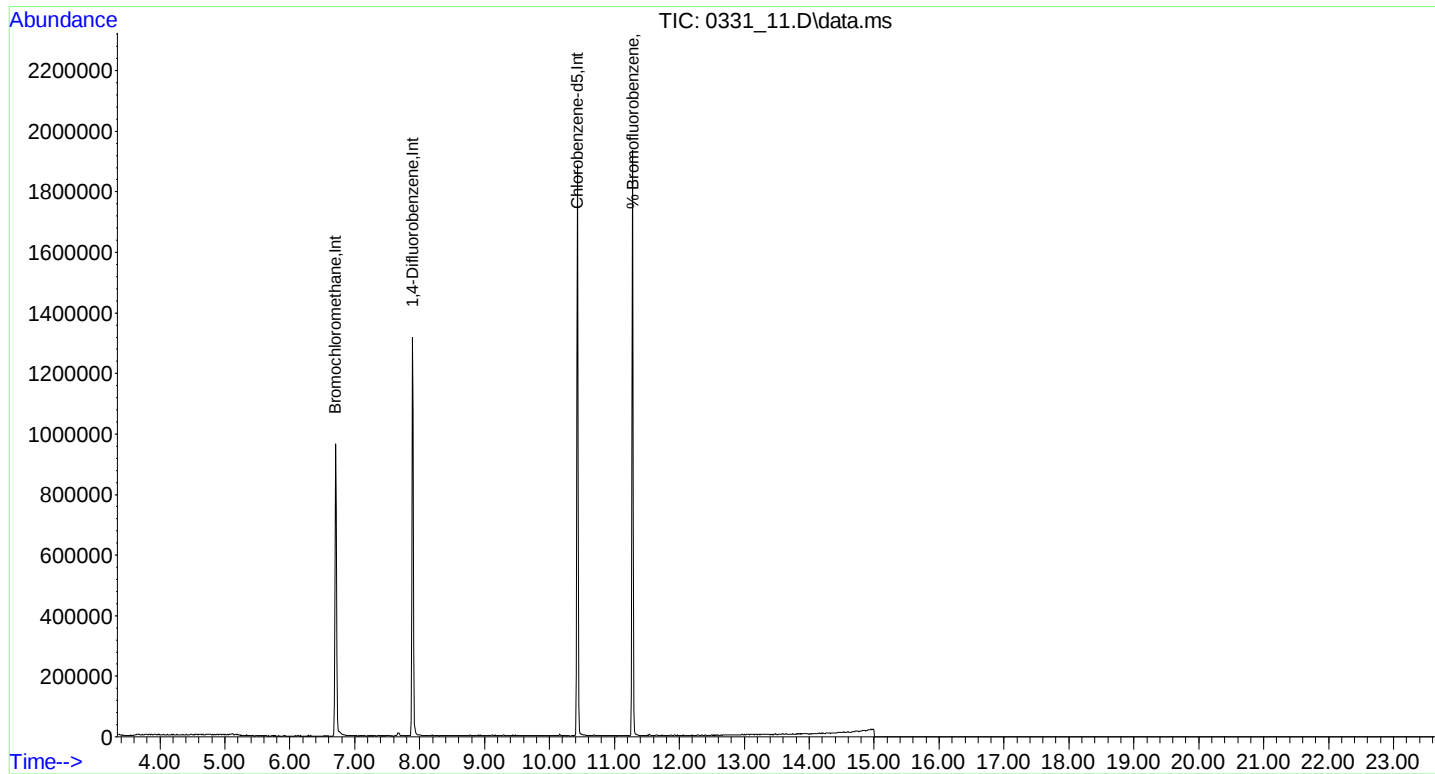
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.704	130	211749	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.889	114	775527	10.000	ng	0.00
54) Chlorobenzene-d5	10.430	82	389650	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	244056	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.889	114	775527	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.430	82	389790	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.281	95	444563	9.681	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.80%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\03MAR\31\
Data File : 0331_11.D
Acq On : 31 Mar 2021 3:47 pm
Operator :
Client ID : IND CAN CERT 28580
Lab ID : IND CAN CERT 28580
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 01 08:21:52 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0329.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Mar 29 13:12:48 2021
Response via : Initial Calibration



Client: WALDENE-IPARK Lab: Phoenix Env. Labs

Canister: CANBL Lab File ID: 0419_35.D

Purge Volume 200 (cc) Date Analyzed: 04/20/21

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

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:\AIR2021\CHEM20\04APR\19\
 Data File : 0419_35.D
 Acq On : 20 Apr 2021 10:44 am
 Operator :
 Client ID : IND CAN CERT 28591
 Lab ID : IND CAN CERT 28591
 ALS Vial : 69 Sample Multiplier: 1

Quant Time: Apr 20 11:31:12 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 20 08:39:08 2021
 Response via : Initial Calibration

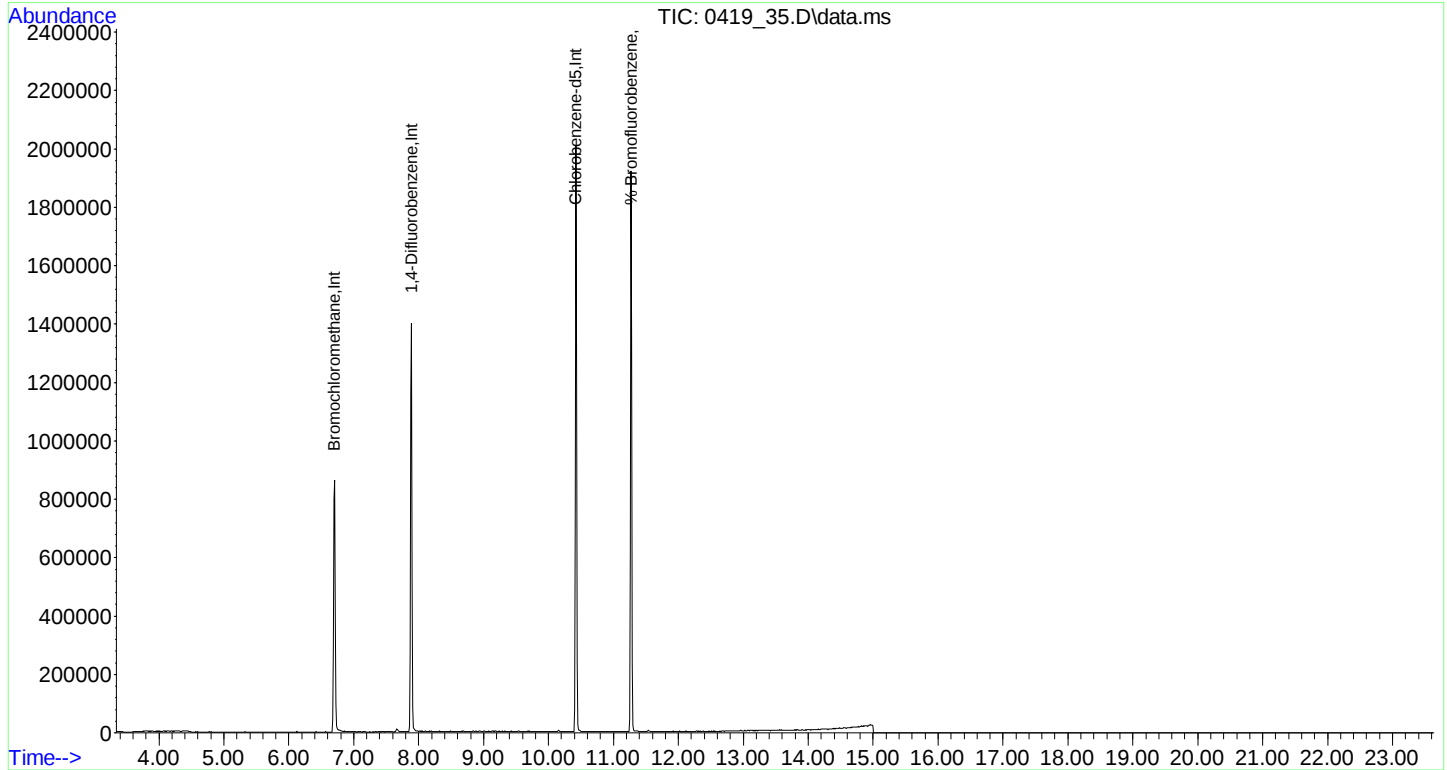
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.704	130	294751	10.000	ng	0.00
37) 1,4-Difluorobenzene	7.889	114	1037784	10.000	ng	0.00
54) Chlorobenzene-d5	10.420	82	437476	10.000	ng	0.00
81) Bromochloromethane(sim)	6.710	130	321621	10.000	ng	# 0.00
96) 1,4-Difluorobenzene(sim)	7.889	114	1037116	10.000	ng	0.00
106) Chlorobenzene-d5(sim)	10.420	82	437476	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.270	95	531399	9.792	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	97.90%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\04APR\19\
Data File : 0419_35.D
Acq On : 20 Apr 2021 10:44 am
Operator :
Client ID : IND CAN CERT 28591
Lab ID : IND CAN CERT 28591
ALS Vial : 69 Sample Multiplier: 1

Quant Time: Apr 20 11:31:12 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Apr 20 08:39:08 2021
Response via : Initial Calibration



Client:	WALDENE-IPARK	Lab:	Phoenix Env. Labs
SDG No.:	GCI26499	Lab Sample ID:	IND CAN CERT 28614
Canister:	CANBL	Lab File ID:	0419_22.D
Instrument:	CHEM20	Column:	
Purge Volume	200 (cc)	Date Received:	
		Date Analyzed:	04/20/21
Matrix:	AIR	Dilution Factor:	1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

[illegible]

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:\AIR2021\CHEM20\04APR\19\
 Data File : 0419_22.D
 Acq On : 20 Apr 2021 2:17 am
 Operator :
 Client ID : IND CAN CERT 28614
 Lab ID : IND CAN CERT 28614
 ALS Vial : 56 Sample Multiplier: 1

Quant Time: Apr 20 08:43:17 2021
 Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
 Quant Title : VOA Standards for 5 point calibration
 QLast Update : Tue Apr 20 08:39:08 2021
 Response via : Initial Calibration

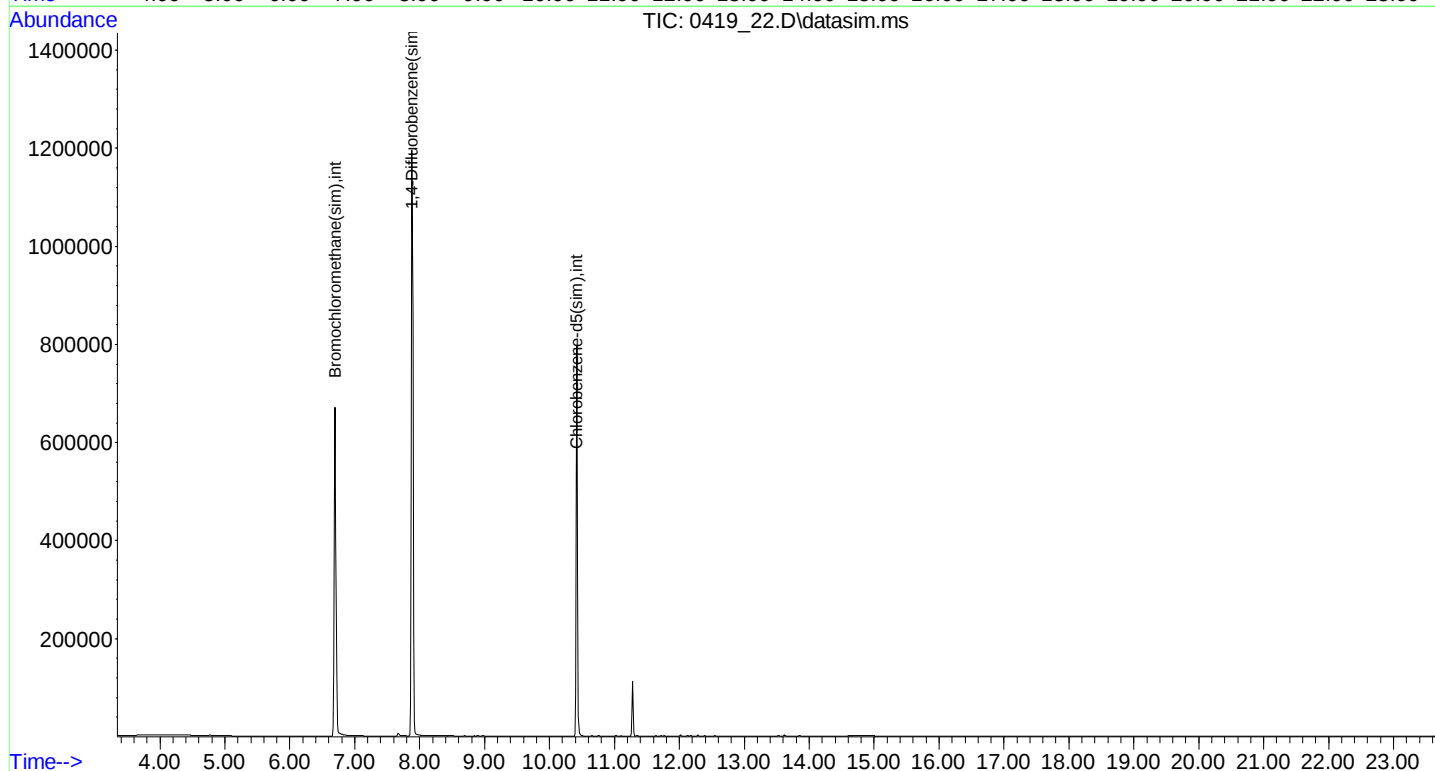
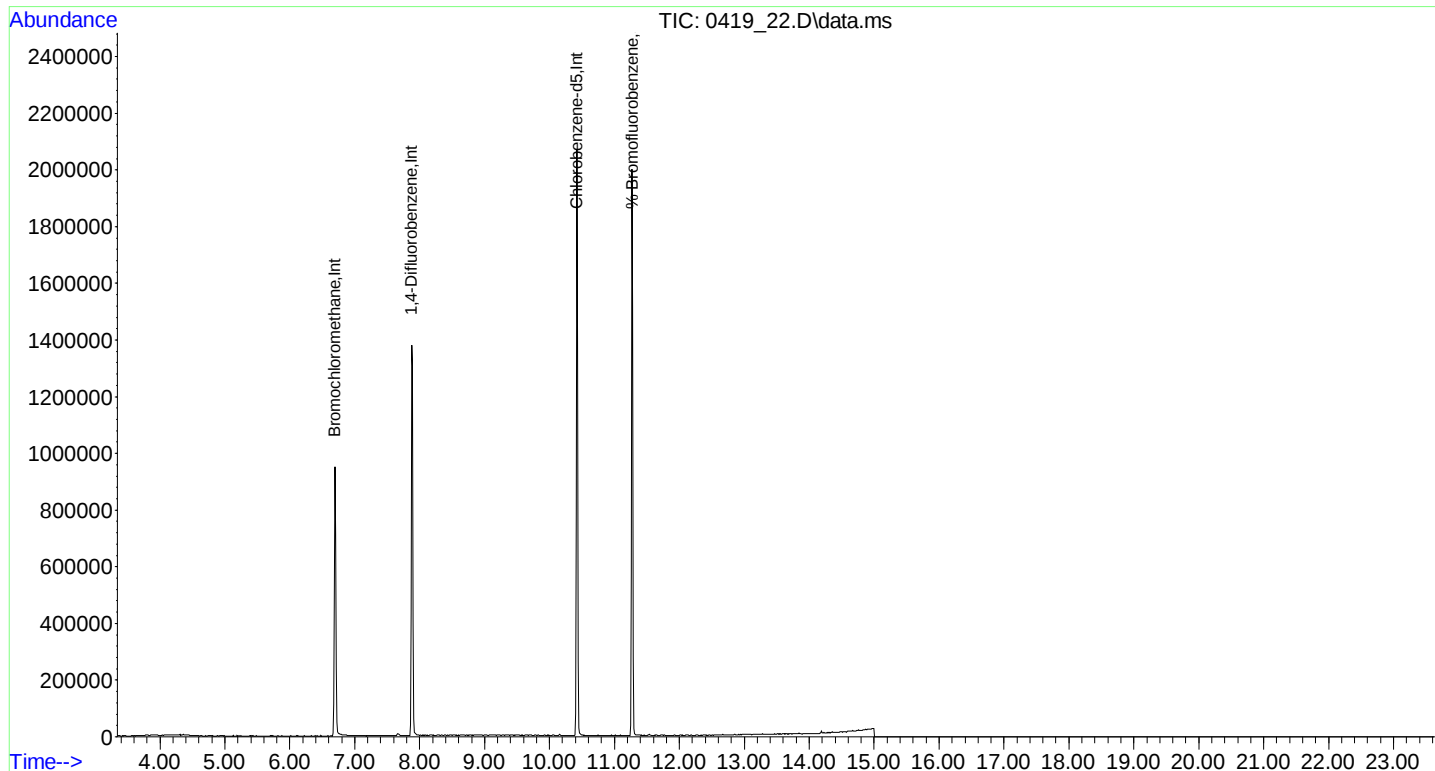
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.694	130	304794	10.000	ng	-0.01
37) 1,4-Difluorobenzene	7.878	114	1084873	10.000	ng	-0.01
54) Chlorobenzene-d5	10.420	82	468884	10.000	ng	0.00
81) Bromochloromethane(sim)	6.699	130	333892	10.000	ng	#-0.01
96) 1,4-Difluorobenzene(sim)	7.878	114	1084117	10.000	ng	-0.01
106) Chlorobenzene-d5(sim)	10.420	82	468884	10.000	ng	0.00
System Monitoring Compounds						
63) % Bromofluorobenzene	11.270	95	560856	9.642	ppbv	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery	=	96.40%

Target Compounds	Qvalue

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

Data Path : H:\AIR2021\CHEM20\04APR\19\
Data File : 0419_22.D
Acq On : 20 Apr 2021 2:17 am
Operator :
Client ID : IND CAN CERT 28614
Lab ID : IND CAN CERT 28614
ALS Vial : 56 Sample Multiplier: 1

Quant Time: Apr 20 08:43:17 2021
Quant Method : H:\AIR2021\CHEM20\METHODS\20_AIR_0419.M
Quant Title : VOA Standards for 5 point calibration
Qlast Update : Tue Apr 20 08:39:08 2021
Response via : Initial Calibration



Injection Log

Data Directory: H:\AIR2021\CHEM20\03MAR\05\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	1	0305_01.D	xxxxxxxxxx		03/05/21 7:36
2)	2	0305_02.D	xxxxxxxxxx		03/05/21 8:12
3)	3	0305_03.D	xxxxxxxxxx		03/05/21 8:47
4)	4	0305_04.D	IND CAN CERT 13634	IND CAN CERT 13634	03/05/21 10:22
5)	5	0305_05.D	xxxxxxxxxx		03/05/21 11:01
6)	6	0305_06.D	xxxxxxxxxx		03/05/21 11:40
7)	7	0305_07.D	xxxxxxxxxx		03/05/21 12:20
8)	8	0305_08.D	xxxxxxxxxx		03/05/21 13:59
9)	8	0305_09.D	xxxxxxxxxx		03/05/21 14:52
10)	9	0305_10.D	xxxxxxxxxx		03/05/21 16:37
11)	10	0305_11.D	xxxxxxxxxx		03/05/21 17:17
12)	11	0305_12.D	xxxxxxxxxx		03/05/21 17:56
13)	12	0305_13.D	xxxxxxxxxx		03/05/21 18:35
14)	13	0305_14.D	xxxxxxxxxx		03/05/21 19:14
15)	14	0305_15.D	xxxxxxxxxx		03/05/21 19:53
16)	15	0305_16.D	xxxxxxxxxx		03/05/21 20:32
17)	16	0305_17.D	xxxxxxxxxx		03/05/21 21:12
18)	17	0305_18.D	xxxxxxxxxx		03/05/21 21:51
19)	18	0305_19.D	xxxxxxxxxx		03/05/21 22:29
20)	19	0305_20.D	IND CAN CERT 28548	IND CAN CERT 28548	03/05/21 23:09
21)	20	0305_21.D	xxxxxxxxxx		03/05/21 23:47
22)	21	0305_22.D	xxxxxxxxxx		03/06/21 0:26
23)	22	0305_23.D	xxxxxxxxxx		03/06/21 1:03

Injection Log

Data Directory: H:\AIR2021\CHEM20\03MAR\31\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	0	0331_22.D	xxxxxxxxxx		N/A
2)	1	0331_01.D	xxxxxxxxxx		03/31/21 9:24
3)	2	0331_02.D	xxxxxxxxxx		03/31/21 10:01
4)	3	0331_03.D	xxxxxxxxxx		03/31/21 10:36
5)	4	0331_04.D	xxxxxxxxxx		03/31/21 11:15
6)	5	0331_05.D	IND CAN CERT 23332	IND CAN CERT 23332	03/31/21 11:54
7)	6	0331_06.D	xxxxxxxxxx		03/31/21 12:33
8)	7	0331_07.D	xxxxxxxxxx		03/31/21 13:11
9)	8	0331_08.D	xxxxxxxxxx		03/31/21 13:50
10)	9	0331_09.D	xxxxxxxxxx		03/31/21 14:29
11)	10	0331_10.D	xxxxxxxxxx		03/31/21 15:08
12)	11	0331_11.D	IND CAN CERT 28580	IND CAN CERT 28580	03/31/21 15:47
13)	12	0331_12.D	xxxxxxxxxx		03/31/21 16:26
14)	13	0331_13.D	xxxxxxxxxx		03/31/21 17:05
15)	14	0331_14.D	xxxxxxxxxx		03/31/21 17:44
16)	15	0331_15.D	xxxxxxxxxx		03/31/21 18:29
17)	16	0331_16.D	xxxxxxxxxx		03/31/21 19:08
18)	17	0331_17.D	xxxxxxxxxx		03/31/21 19:47
19)	18	0331_18.D	xxxxxxxxxx		03/31/21 20:26
20)	19	0331_19.D	xxxxxxxxxx		03/31/21 21:04
21)	20	0331_20.D	xxxxxxxxxx		03/31/21 21:43
22)	21	0331_21.D	xxxxxxxxxx		03/31/21 22:19

Injection Log

Data Directory: H:\AIR2021\CHEM20\04APR\19\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	0	0421_32.D	xxxxxxxxxx		N/A
2)	36	0419_01.D	xxxxxxxxxx		04/19/21 13:20
3)	37	0419_02.D	xxxxxxxxxx		04/19/21 13:55
4)	37	0419_03.D	xxxxxxxxxx		04/19/21 14:30
5)	38	0419_04.D	xxxxxxxxxx		04/19/21 15:06
6)	39	0419_05.D	xxxxxxxxxx		04/19/21 15:42
7)	40	0419_06.D	xxxxxxxxxx		04/19/21 16:18
8)	41	0419_07.D	xxxxxxxxxx		04/19/21 16:55
9)	42	0419_08.D	xxxxxxxxxx		04/19/21 17:33
10)	43	0419_09.D	xxxxxxxxxx		04/19/21 18:11
11)	44	0419_10.D	xxxxxxxxxx		04/19/21 18:48
12)	45	0419_11.D	xxxxxxxxxx		04/19/21 19:26
13)	46	0419_12.D	xxxxxxxxxx		04/19/21 20:06
14)	47	0419_13.D	xxxxxxxxxx		04/19/21 20:40
15)	48	0419_14.D	xxxxxxxxxx		04/19/21 21:17
16)	49	0419_15.D	xxxxxxxxxx		04/19/21 21:54
17)	50	0419_16.D	xxxxxxxxxx		04/19/21 22:32
18)	51	0419_17.D	xxxxxxxxxx		04/19/21 23:07
19)	52	0419_18.D	xxxxxxxxxx		04/19/21 23:42
20)	53	0419_19.D	IND CAN CERT 21339	IND CAN CERT 21339	04/20/21 0:20
21)	54	0419_20.D	xxxxxxxxxx		04/20/21 0:59
22)	55	0419_21.D	xxxxxxxxxx		04/20/21 1:38
23)	56	0419_22.D	IND CAN CERT 28614	IND CAN CERT 28614	04/20/21 2:17
24)	57	0419_23.D	xxxxxxxxxx		04/20/21 2:56
25)	58	0419_24.D	xxxxxxxxxx		04/20/21 3:35
26)	59	0419_25.D	xxxxxxxxxx		04/20/21 4:14
27)	60	0419_26.D	xxxxxxxxxx		04/20/21 4:53
28)	61	0419_27.D	xxxxxxxxxx		04/20/21 5:32
29)	62	0419_28.D	xxxxxxxxxx		04/20/21 6:11
30)	63	0419_29.D	IND CAN CERT 23328	IND CAN CERT 23328	04/20/21 6:50
31)	64	0419_30.D	xxxxxxxxxx		04/20/21 7:29
32)	65	0419_31.D	xxxxxxxxxx		04/20/21 8:07
33)	66	0419_32.D	xxxxxxxxxx		04/20/21 8:46
34)	67	0419_33.D	xxxxxxxxxx		04/20/21 9:25
35)	68	0419_34.D	xxxxxxxxxx		04/20/21 10:04
36)	69	0419_35.D	IND CAN CERT 28591	IND CAN CERT 28591	04/20/21 10:44
37)	70	0419_36.D	xxxxxxxxxx		04/20/21 11:22
38)	71	0419_37.D	xxxxxxxxxx		04/20/21 12:01
39)	72	0419_38.D	xxxxxxxxxx		04/20/21 12:40
40)	73	0419_39.D	xxxxxxxxxx		04/20/21 13:19
41)	74	0419_40.D	xxxxxxxxxx		04/20/21 13:59
42)	75	0419_41.D	xxxxxxxxxx		04/20/21 14:38
43)	76	0419_42.D	xxxxxxxxxx		04/20/21 15:58
44)	77	0419_43.D	xxxxxxxxxx		04/20/21 16:37
45)	78	0419_44.D	xxxxxxxxxx		04/20/21 17:16
46)	79	0419_45.D	xxxxxxxxxx		04/20/21 17:56
47)	80	0419_46.D	xxxxxxxxxx		04/20/21 18:35
48)	81	0420_01.D	xxxxxxxxxx		04/20/21 19:11
49)	82	0420_02.D	xxxxxxxxxx		04/20/21 19:46
50)	83	0420_03.D	xxxxxxxxxx		04/20/21 20:25
51)	84	0420_04.D	xxxxxxxxxx		04/20/21 21:04
52)	85	0420_05.D	xxxxxxxxxx		04/20/21 21:44
53)	86	0420_06.D	xxxxxxxxxx		04/20/21 22:22
54)	87	0420_07.D	xxxxxxxxxx		04/20/21 23:01
55)	88	0420_08.D	xxxxxxxxxx		04/20/21 23:40
56)	89	0420_09.D	xxxxxxxxxx		04/21/21 0:19
57)	90	0420_10.D	xxxxxxxxxx		04/21/21 0:59
58)	91	0420_11.D	xxxxxxxxxx		04/21/21 1:38
59)	92	0420_12.D	xxxxxxxxxx		04/21/21 2:18
60)	93	0420_13.D	xxxxxxxxxx		04/21/21 8:44
61)	94	0420_14.D	xxxxxxxxxx		04/21/21 9:23
62)	1	0420_15.D	xxxxxxxxxx		04/21/21 10:02
63)	2	0420_16.D	xxxxxxxxxx		04/21/21 12:12
64)	3	0420_17.D	xxxxxxxxxx		04/21/21 12:52
65)	4	0420_18.D	xxxxxxxxxx		04/21/21 13:31
66)	5	0420_19.D	xxxxxxxxxx		04/21/21 14:09
67)	6	0420_20.D	xxxxxxxxxx		04/21/21 14:48
68)	7	0421_01.D	xxxxxxxxxx		04/21/21 15:25

69)	8	0421_02.D	xxxxxxxxxx	04/21/21	16:01
70)	9	0421_03.D	xxxxxxxxxx	04/21/21	16:40
71)	1	0421_04.D	xxxxxxxxxx	04/21/21	17:14
72)	1	0421_05.D	xxxxxxxxxx	04/21/21	17:49
73)	1	0421_06.D	xxxxxxxxxx	04/21/21	18:40
74)	1	0421_07.D	xxxxxxxxxx	04/21/21	19:24
75)	2	0421_08.D	xxxxxxxxxx	04/21/21	20:09
76)	3	0421_09.D	xxxxxxxxxx	04/21/21	20:52
77)	4	0421_10.D	xxxxxxxxxx	04/21/21	21:35
78)	5	0421_11.D	xxxxxxxxxx	04/21/21	22:19
79)	6	0421_12.D	xxxxxxxxxx	04/21/21	23:01
80)	7	0421_13.D	xxxxxxxxxx	04/21/21	23:45
81)	8	0421_14.D	xxxxxxxxxx	04/22/21	0:29
82)	9	0421_15.D	xxxxxxxxxx	04/22/21	1:12
83)	10	0421_16.D	xxxxxxxxxx	04/22/21	1:58
84)	11	0421_17.D	xxxxxxxxxx	04/22/21	2:41
85)	12	0421_18.D	xxxxxxxxxx	04/22/21	3:27
86)	13	0421_19.D	xxxxxxxxxx	04/22/21	4:10
87)	14	0421_20.D	xxxxxxxxxx	04/22/21	4:52
88)	15	0421_21.D	xxxxxxxxxx	04/22/21	5:35
89)	16	0421_22.D	xxxxxxxxxx	04/22/21	6:17
90)	17	0421_23.D	xxxxxxxxxx	04/22/21	7:01
91)	18	0421_24.D	xxxxxxxxxx	04/22/21	7:44
92)	19	0421_25.D	xxxxxxxxxx	04/22/21	8:27
93)	20	0421_26.D	xxxxxxxxxx	04/22/21	9:12
94)	21	0421_27.D	xxxxxxxxxx	04/22/21	9:56
95)	22	0421_28.D	xxxxxxxxxx	04/22/21	10:33
96)	23	0421_29.D	xxxxxxxxxx	04/22/21	11:11
97)	24	0421_30.D	xxxxxxxxxx	04/22/21	11:48
98)	25	0421_31.D	xxxxxxxxxx	04/22/21	12:25

Injection Log

Data Directory: H:\AIR2021\CHEM24\04APR\21A\

Line	VI	FileName	SampleName	MiscInfo	Injection Time
1)	45	0421_01.D	xxxxxxxxxx		04/21/21 21:46
2)	46	0421_02.D	BFB TUNE	0/0	04/21/21 22:17
3)	47	0421_03.D	ICAL 0.02	0.02	04/21/21 22:47
4)	48	0421_04.D	ICAL 0.035	0.035	04/21/21 23:16
5)	49	0421_05.D	ICAL 0.05	0.05	04/22/21 0:34
6)	50	0421_06.D	ICAL 0.1	0.10	04/22/21 1:06
7)	51	0421_07.D	ICAL 0.25	0.20	04/22/21 1:39
8)	52	0421_08.D	ICAL 0.5	0.50	04/22/21 2:14
9)	53	0421_09.D	ICAL 2.5	2.5	04/22/21 2:49
10)	54	0421_10.D	ICAL 5	5.0	04/22/21 3:21
11)	55	0421_11.D	ICAL 25	25	04/22/21 3:57
12)	56	0421_12.D	ICAL 40	40	04/22/21 4:37
13)	57	0421_13.D	xxxxxxxxxx		04/22/21 5:07
14)	58	0421_14.D	ICAL 1	1ppb	04/22/21 5:40
15)	59	0421_15.D	ICAL 10	10ppb	04/22/21 6:12
16)	60	0421_16.D	xxxxxxxxxx		04/22/21 6:49
17)	61	0421_17.D	xxxxxxxxxx		04/22/21 7:20
18)	62	0421_18.D	xxxxxxxxxx		04/22/21 7:51
19)	63	0421_19.D	xxxxxxxxxx		04/22/21 9:52
20)	64	0421_20.D	xxxxxxxxxx		04/22/21 10:25
21)	65	0421_21.D	xxxxxxxxxx		04/22/21 10:57
22)	66	0421_22.D	xxxxxxxxxx		04/22/21 11:29
23)	67	0421_23.D	xxxxxxxxxx		04/22/21 12:01
24)	68	0421_24.D	xxxxxxxxxx		04/22/21 14:03
25)	69	0421_25.D	xxxxxxxxxx		04/22/21 14:45
26)	70	0421_26.D	xxxxxxxxxx		04/22/21 15:26
27)	71	0421_27.D	xxxxxxxxxx		04/22/21 16:08
28)	72	0421_28.D	xxxxxxxxxx		04/22/21 16:49
29)	73	0421_29.D	xxxxxxxxxx		04/22/21 17:31
30)	74	0421_30.D	xxxxxxxxxx		04/22/21 18:12
31)	75	0421_31.D	xxxxxxxxxx		04/22/21 18:54
32)	76	0421_32.D	xxxxxxxxxx		04/22/21 19:36
33)	77	0421_33.D	xxxxxxxxxx		04/22/21 20:17
34)	78	0421_34.D	xxxxxxxxxx		04/22/21 20:58
35)	79	0421_35.D	xxxxxxxxxx		04/22/21 21:40
36)	80	0421_36.D	xxxxxxxxxx		04/22/21 22:23
37)	81	0421_37.D	xxxxxxxxxx		04/22/21 22:56
38)	82	0421_38.D	xxxxxxxxxx		04/22/21 23:29
39)	83	0421_39.D	xxxxxxxxxx		04/23/21 0:03
40)	84	0421_40.D	xxxxxxxxxx		04/23/21 0:56
41)	85	0421_41.D	xxxxxxxxxx		04/23/21 1:49
42)	86	0421_42.D	xxxxxxxxxx		04/23/21 2:23
43)	87	0421_43.D	xxxxxxxxxx		04/23/21 2:56
44)	88	0421_44.D	xxxxxxxxxx		04/23/21 3:28
45)	89	0421_45.D	xxxxxxxxxx		04/23/21 4:01
46)	90	0421_46.D	xxxxxxxxxx		04/23/21 4:33
47)	91	0421_47.D	xxxxxxxxxx		04/23/21 5:07
48)	92	0421_48.D	xxxxxxxxxx		04/23/21 5:41
49)	93	0421_49.D	xxxxxxxxxx		04/23/21 6:18
50)	94	0421_50.D	xxxxxxxxxx		04/23/21 6:50
51)	95	0421_51.D	xxxxxxxxxx		04/23/21 7:22
52)	96	0421_52.D	xxxxxxxxxx		04/23/21 11:13
53)	97	0421_53.D	xxxxxxxxxx		04/23/21 11:56
54)	98	0421_54.D	xxxxxxxxxx		04/23/21 12:28
55)	99	0421_55.D	xxxxxxxxxx		04/23/21 13:01
56)	100	0421_56.D	xxxxxxxxxx		04/23/21 13:34
57)	101	0421_57.D	xxxxxxxxxx		04/23/21 14:13
58)	102	0421_58.D	xxxxxxxxxx		04/23/21 14:47
59)	103	0421_59.D	xxxxxxxxxx		04/23/21 15:27
60)	104	0421_60.D	xxxxxxxxxx		04/23/21 15:59
61)	105	0421_61.D	xxxxxxxxxx		04/23/21 18:30
62)	106	0421_62.D	xxxxxxxxxx		04/23/21 19:08
63)	107	0421_63.D	xxxxxxxxxx		04/23/21 19:45
64)	108	0421_64.D	xxxxxxxxxx		04/23/21 20:22
65)	109	0421_65.D	xxxxxxxxxx		04/23/21 20:54
66)	110	0421_66.D	xxxxxxxxxx		04/23/21 21:27
67)	111	0421_67.D	xxxxxxxxxx		04/23/21 21:59
68)	112	0421_68.D	xxxxxxxxxx		04/23/21 22:31

69)	113	0421_69.D	xxxxxxxxxx	04/23/21	23:03
70)	114	0421_70.D	xxxxxxxxxx	04/23/21	23:40
71)	115	0421_71.D	xxxxxxxxxx	04/24/21	0:35
72)	116	0421_72.D	xxxxxxxxxx	04/24/21	1:13
73)	117	0421_73.D	xxxxxxxxxx	04/24/21	1:50
74)	118	0421_74.D	xxxxxxxxxx	04/24/21	2:27
75)	119	0421_75.D	xxxxxxxxxx	04/24/21	2:59
76)	120	0421_76.D	xxxxxxxxxx	04/24/21	3:31
77)	121	0421_77.D	xxxxxxxxxx	04/24/21	4:03
78)	122	0421_78.D	xxxxxxxxxx	04/24/21	4:35
79)	123	0421_79.D	xxxxxxxxxx	04/24/21	5:09

Injection Log

Data Directory: H:\AIR2021\CHEM24\05MAY\07\

Line	VL	FileName	SampleName	MiscInfo	Injection Time
1)	0	0507_32.D	xxxxxxxxxx		N/A
2)	1	0507_01.D	xxxxxxxxxx		05/07/21 13:43
3)	2	0507_02.D	xxxxxxxxxx		05/07/21 14:21
4)	2	0507_03.D	BFB TUNE - CCAL 1	1ppb cc - 1ppb cc	05/07/21 14:56
5)	3	0507_04.D	xxxxxxxxxx		05/07/21 15:31
6)	4	0507_05.D	CI26489 LCS	CI26489 LCS	05/07/21 16:09
7)	5	0507_06.D	CI26489 LCSD	CI26489 LCSD	05/07/21 17:01
8)	6	0507_07.D	xxxxxxxxxx		05/07/21 17:36
9)	7	0507_08.D	CI26489 BLANK	CI26489 BLANK	05/07/21 18:10
10)	8	0507_09.D	xxxxxxxxxx		05/07/21 18:50
11)	9	0507_10.D	MWIA-01	CI26499	05/07/21 19:34
12)	10	0507_11.D	MWIA-02	CI26500	05/07/21 20:17
13)	11	0507_12.D	MWIA-03	CI26501	05/07/21 21:00
14)	12	0507_13.D	MWIA-04	CI26502	05/07/21 21:44
15)	13	0507_14.D	MWIA-05	CI26503	05/07/21 22:27
16)	14	0507_15.D	MWAA-01	CI26504	05/07/21 23:12
17)	15	0507_16.D	MWFB	CI26505	05/07/21 23:55
18)	16	0507_17.D	MWDUP	CI26506	05/08/21 0:37
19)	17	0507_18.D	xxxxxxxxxx		05/08/21 1:20
20)	18	0507_19.D	xxxxxxxxxx		05/08/21 2:02
21)	19	0507_20.D	xxxxxxxxxx		05/08/21 2:57
22)	20	0507_21.D	CI26489 QC	CI26489 QC	05/08/21 3:39
23)	21	0507_22.D	26489 356cc dup	CI26489 DUP	05/08/21 4:20
24)	22	0507_23.D	xxxxxxxxxx		05/08/21 5:01
25)	23	0507_24.D	xxxxxxxxxx		05/08/21 5:43
26)	24	0507_25.D	xxxxxxxxxx		05/08/21 6:24
27)	25	0507_26.D	xxxxxxxxxx		05/08/21 6:57
28)	26	0507_27.D	xxxxxxxxxx		05/08/21 7:30
29)	27	0507_28.D	xxxxxxxxxx		05/08/21 8:03
30)	28	0507_29.D	xxxxxxxxxx		05/08/21 8:34
31)	29	0507_30.D	xxxxxxxxxx		05/08/21 9:08
32)	30	0507_31.D	xxxxxxxxxx		05/08/21 9:42

APPENDIX E
DATA USABILITY SUMMARY REPORT (SEPTEMBER 2021)

**BUILDING 710 (330 LINK) MIDWAY DENTAL
INDOOR AIR QUALITY SAMPLING DATA USABILITY
SUMMARY REPORT**

AT

**1 PARK 84
FORMER IBM EAST FISHKILL FACILITY**

SEPTEMBER 2021

PREPARED FOR:

**JESSICA LACLAIR
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WALDEN ENVIRONMENTAL ENGINEERING, PLLC

Industry Leader in Environmental Engineering Consulting

———— PROACTIVE SOLUTIONS SINCE 1995 ————

Data Usability Summary Report

Indoor Air Quality Investigation
iPark 84, Former IBM East Fishkill Facility
Building 710 (formerly Building 330 Link) – Midway Dental Space

This Data Usability Summary Report (DUSR) has been prepared to validate the results of indoor air quality (IAQ) testing conducted at Building 710 (Formerly 330 Link) in the space to be occupied by Midway Dental, a manufacturer of dental equipment. This sampling was conducted on May 6, 2021, in order to verify that IAQ is acceptable before Midway Dental Space takes occupancy and begins operations. Walden performed the IAQ testing in accordance with the RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan (RFI Work Plan, prepared on behalf of IBM) dated June 15, 2009, by Sanborn, Head Engineering, PC; and Walden's IAQ Testing Plan letter (Testing Plan, dated February 19, 2021), which was approved by NYSDEC on April 19, 2021.

A summary of the Midway Dental IAQ sampling results was submitted to NYSDEC and NYSDOH in a report dated May 18, 2021. Upon reviewing the IAQ sampling results, NYSDEC approved occupancy of the space in a letter dated June 9, 2021.

This DUSR has been prepared in accordance with NYSDEC Draft DER-10 Appendix 2B – Guidance for Data Deliverables and the Development of Data Usability Summary Reports. The DUSR provides a thorough evaluation of analytical data without using the services of an independent third-party data validator. The primary objective of the DUSR is to determine whether or not the data presented meets project specific criteria for data quality and use.

The analytical data was evaluated by Lathika Varanasi (Walden), whose experience and qualifications to prepare the DUSR for this project are presented in the attached resume (see Attachment A). The air samples collected for laboratory analysis were submitted to Phoenix Environmental Laboratories, Inc. (Phoenix) of Manchester, Connecticut, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301), and analyzed for volatile organic compounds (VOCs) via modified EPA Method TO-15 (full list) to achieve lower reporting limits via selective ion monitoring for TCE, vinyl chloride and carbon tetrachloride. The IAQ sample reporting limits are set forth in the NYSDEC-approved testing plan approved on April 19, 2021.

The DUSR process consisted of evaluating the analytical data package produced by Phoenix and answering the following questions.

1. Were there any deviations in the sampling protocol which deviated from established sampling procedures?

The air samples were collected in laboratory provided individually certified, 6-liter Summa[®] canisters equipped with individually certified flow regulators. The regulators were calibrated by the laboratory for a sampling period of 8 hours; this sampling duration was chosen in accordance with NYSDOH guidance for indoor air sampling of a commercial workspace with a single shift, to reflect the typical exposure scenario. The regulators served to maintain flow rates below the required maximum rate of 0.2 liters (200 milliliters) per minute during the sampling period to minimize outdoor air infiltration.

2. Is the data package complete as defined under the requirements for the NYSDEC ASP Category B or USEPA CLP deliverables?

The sampling and analytical program outlined in the *Building 710 (Formerly Building 330 Link) – Midway Dental Pre-Occupancy Indoor Air Quality Testing Plan* was designed to conform to the NYSDEC ASP Category B and USEPA CLP deliverables criteria. Both field sampling and laboratory analytical activities were performed with built-in QA/QC programs. One (1) duplicate sample was collected in relation to five (5) indoor air samples and one (1) outdoor air sample. The analytical laboratory (Phoenix) included method blanks and batch QA/QC samples as part of their standard QA/QC program. Additionally, the samples were handled in compliance with the holding time allowances.

3. Have all holding times been met?

Times of sample receipt, extraction, and analysis have been evaluated to determine whether the holding time specifications have been met. All of the samples were analyzed within the specified holding times.

4. Do all 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?

All of the primary sample and QC data were reviewed. Duplicate sample analysis demonstrated a reasonable level of accuracy in the analytical results. Although there were a few QA/QC data outliers with respect to compliance to protocol-required criteria, all other QA/QC acceptance criteria were met and the reliability of the laboratory results should not be affected.

5. Have all the data been generated using established and agreed upon analytical protocols?

Laboratory analytical protocols have been developed by the USEPA and are published in USEPA Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air: Method TO-15 (Second Edition, January 1999). The review of the laboratory deliverables indicated that the analytical data for this project was generated following these standard protocols.

6. Does an evaluation of the raw data confirm the results provided in the data summary sheets and quality control verification forms?

An evaluation of the raw data confirmed the accuracy of the results provided in the data summary sheets and the quality control verification forms included in the analytical data package prepared by the laboratory.

7. Have the correct data qualifiers been used?

The laboratory provided a list of qualifiers used in their data reporting. QC failures such as potential sample contamination by laboratory solvents or estimation of sample result values due to analyte concentrations detected above calibration ranges were checked back to the reported data to determine whether the qualifiers were properly used. The evaluation indicated that the laboratory flagged the data using the correct data qualifiers when necessary. The data qualifiers comply with the NYSDEC Analytical Services Protocol (ASP) 95 revised guidelines.

8. Have the minimum reporting limits been met?

The minimum reporting limits specified in the NYSDEC approved *Building 710 (Formerly Building 330 Link) – Midway Dental Pre-Occupancy Indoor Air Quality Testing Plan* are as follows:

ANALYTE LIST	MINIMUM REPORTING LIMIT (ug/m ³)
1,1,1-Trichloroethane	1.1
1,1-Dichloroethene	0.8
1,2,4-Trichlorobenzene	7.4
1,2-Dichlorobenzene	1.2
1,3-Dichlorobenzene	1.2
1,4-Dichlorobenzene	1.2
Acetone	2.4
Benzene	0.64
Carbon Tetrachloride	0.2

Chlorobenzene	0.92
Cis-1,2-Dichloroethene	0.8
Dichlorodifluoromethane	1.0
Ethylbenzene	0.86
m,p-Xylene	0.86
Methylene Chloride	1.4
o-Xylene	0.86
Tetrachloroethene	1.4
Toluene	0.77
Trichloroethene	0.22
Trichlorofluoromethane	1.1
Trichlorotrifluoroethane	1.5
Vinyl Chloride	0.06

All reportable VOCs meet the minimum required reporting limits for all samples collected in the Midway Dental space at Building 700 (formerly Building 330D) on May 6, 2021.

Summary

In summary, the analytical data package review conducted while preparing this DUSR found that no significant data deficiencies, analytical protocol deviations, or quality control problems impacted the quality of the data. No significant QC exceedances were identified and it was determined that the data should not be rejected.

Prepared by:



Lathika Varanasi, Ph.D.

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Attachment A

Resume of Environmental Professional



Lathika Varanasi, Ph.D. Project Engineer



Project Engineer with experience in energy recovery/energy auditing of water and wastewater treatment facilities, wastewater treatment and renewable energy. She also has a strong background in environmental remediation, technical writing, techno-economic feasibility studies, engineering data analysis, analytical and organic chemistry.

EDUCATION

Ph.D. in Environmental Engineering, Michigan Technological University

LICENSES/ CERTIFICATIONS

NYSDEC 4-Hour
Erosion and Sediment
Control Training

Confined Space
Trained General
Industry

NFPA 70E: Standard
for Electrical Safety in
the Workplace

OSHA 10 Hour
General Industry

OSHA 40 Hour
HAZWOPER

SELECTED RELEVANT EXPERIENCE

- **Energy optimization of Water and Wastewater Treatment Plants:** Conducted energy consumption and process evaluations for equipment and process systems of water and wastewater treatment facilities and associated Combined Heat and Power (CHP) systems. Developed energy efficiency funding applications and quantified energy savings associated with treatment and process equipment as well as lighting and HVAC systems of water and wastewater treatment facilities. Developed energy conservation measures and provided recommendations for alternative low energy technologies for the upgrade of process operations and performances of water and wastewater treatment facilities. Created operation and maintenance manuals for water and wastewater treatment facilities.
- **Environmental Impact Assessment:** Evaluated sustainability, techno-economic feasibility of solar energy systems and analyzed energy consumption data to optimize energy efficiency for clients.
- **Energy optimization of Sewage Treatment Plants:** Established potential areas of energy optimization through data analysis of the unit processes of sewage treatment plants (STP), including pumps, blowers and compressors. Developed technical summaries of STP facilities' site operating manuals. Designed a template with the layout of unit processes of a sewage treatment plant and highlighted segments of high energy consumption for the stakeholders.
- **Wastewater Treatment:** Designed bench scale UV/Advanced Oxidation Processes (UV/AOPs) and investigated transformation of dissolved organic matter (DOM) of secondary effluent wastewater in the UV/AOPs. Characterized DOM transformation using ultra-high-resolution mass spectrometer. Identified specific low-molecular weight organic acids and chlorinated by-products formed due to interaction of DOM with UV/AOPs. Analyzed the role of DOM in reducing the treatment efficiency of UV-AOPs. Developed methods for the application of analytical chemistry instruments for data analysis. Prepared research reports, grant proposals, research proposals and journal articles.
- **Renewable Energy Applications:** Identified, analyzed and applied renewable and energy efficient technologies (Solar, Biomass, Biogas, Solar-LED) for industrial and community use. Made site visits to evaluate clients' operations and provided appropriate recommendations based on clients' requirements and project viability. Prepared detailed project reports, presentations, techno-economic feasibility studies and financial projections. Secured funds for renewable energy projects in rural areas by applying for seed grants.