Buildings 310 (220) and 320A (210) Warehouse Storage Space Indoor Air Quality Testing Summary Report

at

iPark 84
Former IBM East Fishkill Facility

August 2020
(Updated March 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

WALDEN ENVIRONMENTAL ENGINEERING

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

August 26, 2020
iPARK0118.28

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
Buildings 310 (220) and 320A (210)
OGS Warehouse Space 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 August 24, 2020 within the warehouse space in Buildings 310 (220) and 320A (210) at the iPark East Fishkill (iPark) facility to be occupied by the New York State Office of General Services (OGS). The New York State Governor's Office directed iPark to provide storage space at the facility for OGS use in storing PPE under COVID Executive Order 202. In response, iPark is providing 305,000 square feet of space in Building 310 (220) and 58,000 square feet of space in Building 320A (210) for warehouse use only. Refer to **Figure 1** for the site location map.

Walden, at the request of iPark, performed the August 24th IAQ testing in accordance with the procedures detailed in the *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and other State-approved sampling plans prepared by Walden for recent IAQ testing in other tenant spaces at iPark. Note that the only deviation from the NYSDEC-approved methods was the use of some batch certified Summa® canisters (rather than individually certified canisters and regulators as called for by the State-approved plans).

The purpose of the indoor air sampling is to verify that indoor air quality is acceptable for the OGS warehouse use. Background information on the warehouse space in Buildings 310 (220) and 320A (210) is presented below, followed by a discussion of the IAQ sampling and results.

Background Information

Building 310

Building 310 (220) has continuously been used for storage/warehouse space since iPark took ownership at the facility; therefore, the OGS warehouse use of this space is consistent with the existing use. No interior improvements or demising walls were required to ready the space for the State. Floors were sealed and open floor drains were filled. In addition, iPark has set up multiple fans for air movement in the warehouse space to draw air into the building. No personnel will occupy the warehouse; the space will be used for storage only and personnel will only be in the warehouse space for receiving and delivery purposes. The items stored in the Building 310 (220) warehouse space will be safely packaged (boxed and wrapped in plastic) to ensure the quality of the stored items, including PPE. Therefore, no impacts to public health or safety would be associated with the storage of packaged goods in these spaces.

Phased Move-In

Figure 2 shows the warehouse space to be used by OGS and the plan to occupy the space in three (3) phases. The first 92,000 sf to be occupied are located in the western portion of the building (Phase #1 area), to be followed by 86,000 sf north of the Model Shop (Phase #2 area), and then 126,000 sf in the northeastern portion of the building (Phase #3 area).

- Phase 1 - IBM has conducted a number of sub-slab vapor and indoor air quality evaluations in Building 310 (220). Pilot testing conducted by IBM/Sanborn Head in the northwest portion of the building (in the area of the Phase #1 warehouse space) in late 2019 indicated the presence of tight fill beneath the slab.
- Phases 2 & 3 - A sub-slab depressurization (SSD) system has been operating in the central portion of this building since 2012 and an additional SSD system was recently installed in the Model Shop area. Based on information presented in the most recent Sanborn Head report (*Subslab Depressurization Pilot Testing Summary Report Northwest Area of Building 310* dated March 2020), these SSD systems effectively depressurize the slab in the warehouse area to be occupied during Phase #2, and portions of the slab beneath the Phase #3 space. Please note that

the former open floor drains located in the Phase #3 space were sealed approximately one month ago.

Building 320A (210)

The warehouse space in this building was contemplated for a planned manufacturing tenant, as detailed in the 60-day notification submitted to NYSDEC on November 26, 2019. iPark vacated this space in anticipation of readying the space for the tenant, who later backed out. A revised 60-day notification describing the OGS warehouse use has been submitted to NYSDEC under separate cover.

OGS plans to occupy the Building 320A (210) warehouse space after its phased move-in to the Building 310 (220) warehouse space is completed. Similar to Building 310 (220), no interior improvements or demising walls are required and no personnel will occupy the warehouse space. In addition, no impacts to public health or safety would be associated with the storage of packaged goods in these spaces.

Summary of HVAC Conditions and Building Inventory

The OGS spaces in Buildings 310 (220) and 320A (210) are served by the existing building HVAC systems. iPark and OGS are evaluating potential HVAC upgrades to provide temperature and/or humidification control in the warehouse spaces. The HVAC system was operating during the IAQ sampling and multiple fans were being used to draw air into the warehouse spaces and promote air circulation.

With the exception of incidental cleaning and sanitizing agents, chemicals are not stored within the OGS warehouse space. During the August 24th sampling, several crews were working on lighting and fire sprinkler modifications in certain areas of Building 310 (220). A copy of the Indoor Air Quality Questionnaire and Building Inventory completed during the IAQ sampling event is presented in **Appendix A**.

Summary of IAQ Testing

iPark requested that Walden perform the IAQ sampling with a quick turnaround to verify acceptable indoor air quality in the warehouse space. IAQ testing was conducted in accordance with the procedures outlined in the NYSDEC-approved RFI Work Plan and other IAQ testing plans. While Walden had several 6-liter, individually certified clean, stainless-steel Summa® canisters and flow controllers on hand, the laboratory did not have sufficient time to prepare additional individually certified Summa® canisters/regulators in time for the August 24th sampling, so batch certified Summa® canisters were also used.

The sampling locations are shown on **Figure 2** and relevant information is presented in the table on the next page. Nine (9) IAQ samples (IA-1 through IA-9) were collected in Building 310 (220), distributed throughout the areas to be occupied during Phases #1, #2 and #3. Three (3) IAQ samples (IA-10 through IA-12) were collected in Building 320A (210). One (1) outdoor air sample (AA-01) was collected near the northeast corner of Building 320A (210), out of the path of delivery truck traffic, to assess background conditions and potential impacts on the IAQ results. Three (3) of the samples were collected using 6-liter, individually certified clean, stainless-steel Summa® canisters with flow controllers (also individually certified clean) calibrated by the laboratory to obtain 8-hour time-averaged samples. The other ten (10) Summa® canisters were batch certified by the lab. The indoor air samples were collected from a height of approximately three (3) feet above the floor. No duplicate or field blank samples were collected. PID readings were collected at each sample location immediately before sample collection began to evaluate whether VOCs were present in the OGS warehouse space and had the potential to impact the IAQ results. The PID screening measurements listed in the table below indicated no apparent air quality impacts.

Sample ID	Building	Move-In Phase	Summa® Canister/Regulator Individually Certified?	PID Reading (ppm)
IA-1	310 (220)	Phase 1	Batch certified	0.0
IA-2	310 (220)	Phase 1	Batch certified	0.0
IA-3	310 (220)	Phase 3	Batch certified	0.0
IA-4	310 (220)	Phase 3	Batch certified	0.0
IA-5	310 (220)	Phase 3	Batch certified	0.0
IA-6	310 (220)	Phase 2	Batch certified	0.0
IA-7	310 (220)	Phase 2	Yes	0.0
IA-8	310 (220)	Phase 2	Batch certified	0.0
IA-9	310 (220)	Phase 3	Yes	0.0
IA-10	320A (210)	Phase 4	Batch certified	0.0
IA-11	320A (210)	Phase 4	Batch certified	0.0
IA-12	320A (210)	Phase 4	No	0.0
AA-01	NA	NA	Yes	0.7

All samples were transferred to Phoenix Labs of Manchester, CT, a NYSDOH ELAP certified laboratory (NYSDOH ELAP #11301) under chain of custody for 24-hour turnaround 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 B**. The full laboratory analytical report is provided in **Appendix C**. A Data Usability Summary Report (DUSR) will be prepared and submitted under separate cover.

Results and Discussion

The August 24th OGS warehouse space air results presented in **Table 2** were evaluated using the *NYSDOH: Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (dated October 2006 with updates issued by NYSDOH) as a guide. The SVI guidance lists the air guideline values (AGVs) for indoor and outdoor air which that NYSDOH has established for methylene chloride, trichloroethylene (TCE) and tetrachloroethylene (PCE), as indicated in **Table 2**. For analytes that do not have AGVs and are not considered in the NYSDOH SVI decision matrices, the reported air concentrations 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 IAQ data collected in the OGS warehouse spaces 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.

The VOC concentrations reported for the indoor air samples collected in the warehouse spaces were consistent with the BASE indoor air background concentrations and the ambient air quality recorded during the sampling at AA-1. None of the indoor air concentrations exceeded the respective AGVs or the SVI guidance decision matrix indoor air threshold concentrations recommending mitigation. Therefore, the August 24th IAQ sampling results confirmed acceptable indoor air quality in the OGS warehouse space in Buildings 310 (220) and 320A (210). The laboratory data for the samples collected using individually certified and batch certified Summa® canisters were consistent, therefore all of the results are considered accurate.

Please note that Sanborn Head conducted indoor air sampling in Building 310 (220) on August 14th as part of the IBM's evaluation of the SSDS systems for the central portion of the building and the Model Shop; these results are expected around the end of August and will supplement the IAQ data presented in this summary. The indoor air sampling screening data reported in Sanborn Head's March 2020 *Subslab Depressurization Pilot Testing Summary Report Northwest Area of Building 310* for non-targeted samples (not biased to solvent drains/floor drains that have since been sealed) did not indicate any exceedances of the AGVs for PCE or TCE. The August 24th IAQ sampling results are consistent with the Sanborn Head findings.

All of the VOC concentrations detected in the IAQ samples collected in the warehouse spaces to be occupied by OGS were within or below the range of background concentrations listed in the USEPA BASE database as noted in Table 2, indicating that indoor air quality is acceptable. Based on the results from the IAQ testing presented herein, please confirm that the warehouse spaces within Building 310 (220) and 320A (210) is suitable for OGS storage. Multiple fans will be used for air movement in the OGS warehouse areas, drawing air into the spaces.

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 in OGS Warehouse

Table 1 – Summary of Field Information
Table 2 – Summary of IAQ Analysis (Updated based on DUSR)

Appendix A – Indoor Air Quality Questionnaire and Building Inventory
Appendix B – Photographic Log of Sampling Locations
Appendix C – Laboratory Analytical Report (Category B Deliverables)
Appendix D - Data Usability Summary Report (added March 2021)

cc: J. Kenney, NYSDOH
J. Cotter, iPark
C. Monheit, iPark

0 350 700 1400 2100 FEET

SCALE: 1" = 700'-0"

SITE PLAN

SCALE: 1" = 700'-0"

Walden Environmental Engineering

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
IPARK 84 CAMPUS, 200 NORTH DRIVE, SUITE #108
HOPEWELL JUNCTION, NEW YORK 12533
P: (845) 253-8025; (516) 624-7200
F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

REVISION		
No.	DATE	COMMENTS

FOR:
BUILDING 310 (220) AND 320A (210)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

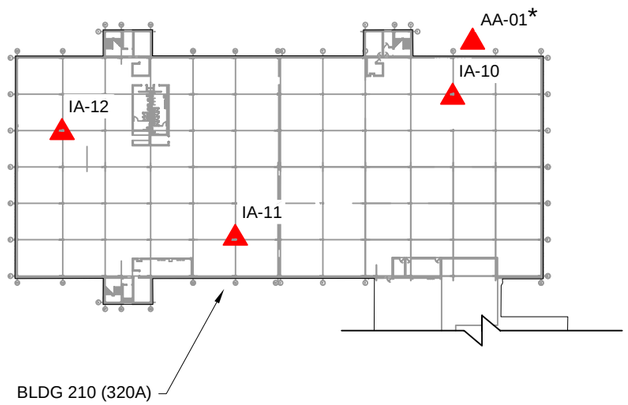
DRAWING TITLE:
IAQ SAMPLING PLAN
BUILDING 310 (220) AND 320A (210) - OGS WAREHOUSE SPACE
IAQ SAMPLING PLAN

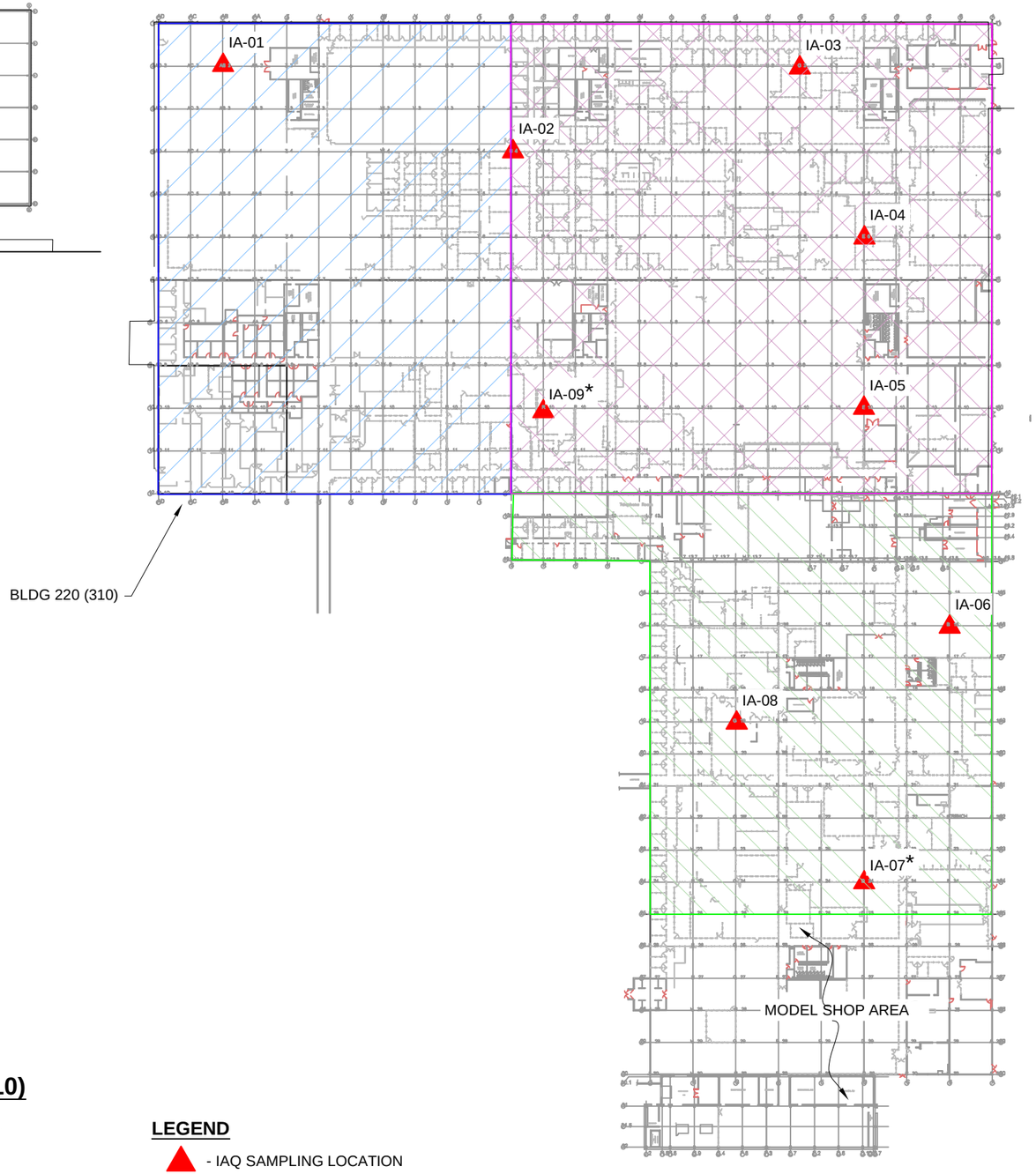
FIGURE NO: 1

ISSUED

REVISION NO: 0

DESIGNED BY: NMB / KAW	DRAWN BY: EJK	JOB NO: IPARK118	DATE: 8/26/20	11x17
APPROVED BY: NMB	SCALE: AS NOTED	CAD FILE NAME: Z:\iPark\118\Building 310\OGS Warehouse IAQ Sampling\ACAD\Building 310 OGS Warehouse IAQ Sampling Plan .dwg		





ORDER OF OCCUPANCY:

- FIRST AREA TO BE OCCUPIED
- SECOND AREA TO BE OCCUPIED
- THIRD AREA TO BE OCCUPIED

BLDG 310 (220) AND 320A (210) OGS WAREHOUSE SPACE IAQ SAMPLING PLAN

SCALE: 1 " = 100'-0"

0 50 100 200 300

SCALE: 1"=100'

LEGEND

- ▲ - IAQ SAMPLING LOCATION
- IA-XX - IAQ SAMPLING NUMBER
- * - INDIVIDUALLY CERTIFIED SUMMA CANISTERS

Walden Environmental Engineering

WALDEN ENVIRONMENTAL ENGINEERING, PLLC
16 SPRING STREET
OYSTER BAY, NEW YORK 11771
P: (516) 624-7200 F: (516) 624-3219
WWW.WALDENENVIRONMENTALENGINEERING.COM

REVISION		
No.	DATE	COMMENTS

FOR: BUILDING 310 (220) AND 320A (210)
iPark 84 Campus
2070 State Route 52
Hopewell Junction, NY 12533

DRAWING TITLE: IAQ SAMPLING PLAN
BUILDING 310 (220) AND 320A (210) - OGS WAREHOUSE SPACE IAQ SAMPLING PLAN

FIGURE NO: 2

ISSUED

REVISION NO: 0

DESIGNED BY: NMB / KAW | DRAWN BY: EJK | JOB NO: IPARK118 | DATE: 8/26/20 | 11x17

APPROVED BY: NMB | SCALE: AS NOTED | CAD FILE NAME: Z:\iPark\0118\Building 310\OGS Warehouse IAQ Sampling\ACAD\Building 310 OGS Warehouse IAQ Sampling Plan .dwg

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

TABLE 1
SUMMARY OF INDOOR AIR SAMPLE INFORMATION
BUILDING 310 (220) /320A (210) OGS WAREHOUSE SPACE
August 24, 2020

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
IA-1	Ground	Indoor Air	23340	5594	2.5	7:09	-29	0.0	13:48	-8.5	75	Column AB2 Bldg 220	None observed
IA-2	Ground	Indoor Air	23330	2924	2.5	7:12	-30	0.0	13:51	-7	75	Column S4 Bldg 220	None observed
IA-3	Ground	Indoor Air	9536	3506	2.5	7:18	-30	0.0	14:16	-9	75	Column G2 Bldg 220	None observed
IA-4	Ground	Indoor Air	481	5614	2.5	7:20	-29	0.0	14:06	-8	75	Column E6 Bldg 220	None observed
IA-5	Ground	Indoor Air	217	862	2.5	7:23	-30	0.0	14:19	-8.5	75	Column E10 Bldg 220	None observed
IA-6	Ground	Indoor Air	28582	5592	2.5	7:26	-30	0.0	13:56	-8.5	75	Column B16 Bldg 220	None observed
IA-7	Ground	Indoor Air	23348	3504	2.5	7:32	-30	0.0	14:32	-9	80	Column D24 Bldg 220	None observed
IA-8	Ground	Indoor Air	28558	3264	2.5	7:36	-29	0.0	14:29	-8.5	80	Column G19 Bldg 220	None observed
IA-9	Ground	Indoor Air	13652	5398	2.5	7:42	-30	0.0	14:26	-8.5	80	Column P10 Bldg 220	None observed
IA-10	Ground	Indoor Air	483	4966	2.5	7:53	-30	0.0	14:36	-8.5	75	Column U3 Bldg 320A	None observed
IA-11	Ground	Indoor Air	28605	7043	2.5	7:56	-30	0.0	14:42	-9	75	Column AB7 Bldg 320A	None observed
IA-12	Ground	Indoor Air	28593	5659	2.5	7:59	-30	0.0	14:39	-9	75	Column AG4 Bldg 320A	None observed
Ambient Air	Ground	Ambient Air	12855	5521	3	8:09	-29	0.7	14:49	-7	92 (AM), 95 (PM)	NE Front of Building 320A	None observed

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

TABLE 2
SUMMARY OF AUGUST 24, 2020 IAQ ANALYSIS
BUILDINGS 310 (220) AND 320A (210) - OGS WAREHOUSE SPACE

			USEPA BASE Database Tables - Typical Background Concentrations for Indoor Air					Building 220 (Former 310)													
	CAS Registry Number	**NYSDOH Air Guideline Value**	75th Percentile	90th Percentile	95th Percentile	99th Percentile	Collection Date Sample ID Matrix Location Units	8/24/2020 IA-1 Air Bldg 310/220 Column AB2		8/24/2020 IA-2 Air Bldg 310/220 Column S4		8/24/2020 IA-3 Air Bldg 310/220 Column G2		8/24/2020 IA-4 Air Bldg 310/220 Column E6		8/24/2020 IA-5 Air Bldg 310/220 Column E10		8/24/2020 IA-6 Air Bldg 310/220 Column B16		8/24/2020 IA-7 Air Bldg 310/220 Column D24	
Volatiles (TO15) By TO15								Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
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	0.40	< 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	14.8	2.37	13.6	2.37	16.5	2.37	53.2	2.37	19.5	2.37	21.2	2.37	15.1	2.37
Benzene	71-43-2		5.1	9.4	12.5	25.0	ug/m3	0.62	0.16	0.81	0.16	1.35	0.16	1.32	0.16	1	0.16	0.66	0.16	0.6	0.16
Carbon Tetrachloride	56-23-5		<1.1	<1.3	0.7	0.9	ug/m3	0.47	0.13	0.45	0.13	0.44	0.13	0.5	0.13	0.44	0.13	0.45	0.13	0.43	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	1.5	0.99	1.86	0.99	1.98	0.99	1.85	0.99	1.77	0.99	2	0.99	2.52	0.99
Ethylbenzene	100-41-4		3.4	5.7	7.6	18.5	ug/m3	< 0.65	0.65	< 0.65	0.65	1.87	0.65	1.31	0.65	0.95	0.65	< 0.65	0.65	< 0.65	0.65
m,p-Xylene	179601-23-1		12.2	22.2	28.5	67.6	ug/m3	1.7	0.65	1.72	0.65	4.12	0.65	3.61	0.65	2.83	0.65	1.84	0.65	1.7	0.65
Methylene Chloride	75-09-2	60	5.0	10.0	16.0	1155.6	ug/m3	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	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	< 0.65	0.65	0.77	0.65	1.7	0.65	1.49	0.65	1.43	0.65	1.25	0.65	1.03	0.65
Tetrachloroethene	127-18-4	30	5.9	15.9	25.4	55.6	ug/m3	2.45	0.68	3.33	0.68	4.2	0.68	4.13	0.68	3.17	0.68	2.47	0.68	3.33	0.68
Toluene	108-88-3		25.9	43.0	70.8	348.9	ug/m3	2	0.75	2.88	0.75	5.24	0.75	4.22	0.75	3.68	0.75	1.14	0.75	1.1	0.75
Trichloroethene	79-01-6	2	1.2	4.2	6.5	57.0	ug/m3	< 0.20	0.20	< 0.20	0.20	0.2	0.20	0.3	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	28.1	0.84	33.7	0.84	64.6	0.84	66.3	0.84	69.1	0.84	57.3	0.84	65.7	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	.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

Notes:

Concentrations are provided in micrograms per cubic meter ($\mu g/m^3$).

Highlighted analytes are included in the NYSDOH Decision Matrices.

Result Detected

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

TABLE 2
SUMMARY OF AUGUST 24, 2020 IAQ ANALYSIS
BUILDINGS 310 (220) AND 320A (210) - OGS WAREHOUSE SPACE

								Building 220 (Former 310)				Building 210 (Former 320A)						Outdoor Air	
			USEPA BASE Database Tables - Typical Background Concentrations for Indoor Air				Collection Date	8/24/2020		8/24/2020		8/24/2020		8/24/2020		8/24/2020		8/24/2020	
							Sample ID	IA-8		IA-9		IA-10		IA-11		IA-12		AA-01	
							Matrix	Air		Air		Air		Air		Air		Air	
	CAS Registry Number	**NYSDOH Air Guideline Value**	75th Percentile	90th Percentile	95th Percentile	99th Percentile	Location	Bldg 310/220 Column G19		Bldg 310/220 Column P10		Bldg 320A/210 Column U3		Bldg 320A/220 Column AB7		Bldg 320A/210 Column AG4		NE Front of Building 320A/210	
							Units	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL
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
1,1-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
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
1,2-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
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
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
Acetone	67-64-1		59.8	98.9	120.2	226.6	ug/m3	19.3	2.37	15.2	2.37	11.4	2.37	14.2	2.37	17.1	2.37	5.77	2.37
Benzene	71-43-2		5.1	9.4	12.5	25.0	ug/m3	0.97	0.16	0.91	0.16	0.46	0.16	0.5	0.16	0.44	0.16	0.19	0.16
Carbon Tetrachloride	56-23-5		<1.1	<1.3	0.7	0.9	ug/m3	0.46	0.13	0.42	0.13	0.47	0.13	0.47	0.13	0.47	0.13	0.43	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
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
Dichlorodifluoromethane	75-71-8		10.5	16.5	32.9	81.3	ug/m3	2.22	0.99	2.01	0.99	1.45	0.99	1.94	0.99	1.74	0.99	1.65	0.99
Ethylbenzene	100-41-4		3.4	5.7	7.6	18.5	ug/m3	< 0.65	0.65	0.89	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65
m,p-Xylene	179601-23-1		12.2	22.2	28.5	67.6	ug/m3	2.64	0.65	2.96	0.65	1.25	0.65	1.38	0.65	1.16	0.65	0.68	0.65
Methylene Chloride	75-09-2	60	5.0	10.0	16.0	1155.6	ug/m3	< 1.39	1.39	< 1.39	1.39	< 1.39	1.39	< 1.39	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	1.52	0.65	1.23	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65	< 0.65	0.65
Tetrachloroethene	127-18-4	30	5.9	15.9	25.4	55.6	ug/m3	2.58	0.68	3.31	0.68	< 0.68	0.68	< 0.68	0.68	< 0.68	0.68	0.76	0.68
Toluene	108-88-3		25.9	43.0	70.8	348.9	ug/m3	1.25	0.75	4.71	0.75	1.16	0.75	1.22	0.75	1.13	0.75	< 0.75	0.75
Trichloroethene	79-01-6	2	1.2	4.2	6.5	57.0	ug/m3	0.21	0.20	< 0.20	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	69.6	0.84	63.4	0.84	4.62	0.84	4.12	0.84	3.72	0.84	1.22	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
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

Notes:

Concentrations are provided in micrograms per cubic meter (µg/m^3).

Highlighted analytes are included in the NYSDOH Decision Matrices.

Result Detected

APPENDIX A
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Kerri Ann Wright Date/Time Prepared 8/24/20 10:54 am

Preparer's Affiliation Walden Environmental Project Scientist Phone No. 845 531 7943

Purpose of Investigation Ipark 118.28 Building 220

1. OCCUPANT:

Interviewed: (Y) / N

Last Name: Montefusco First Name: Shawn

Address: 200 North Drive Hopewell Junction, NY 12533

County: Dutchess

Home 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	School	(Commercial/Multi-use)
Industrial	Church	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: N/A

If multiple units, how many? N/A

If the property is commercial, type?

Business Type(s) PPE Warehouse

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

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

open doors, fans, moderate

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: N/A	full	crawlspace	slab	other _____
c. Basement floor: N/A	concrete	dirt	stone	other _____
d. Basement floor: N/A	uncovered	covered	covered with _____	
e. Concrete floor:	unsealed	(sealed)	sealed with _____	
f. Foundation walls: N/A	poured	block	stone	other _____
g. Foundation walls: N/A	unsealed	sealed	sealed with _____	
h. The basement is: N/A	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: N/A (feet) lowest level is 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)	Heat pump	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
(Electric)	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: Natural Gas

Boiler/furnace located in:	Basement	Outdoors	Main Floor	Other mechanical room
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.

_____

_____

_____

_____

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	N/A
1st Floor	Warehouse space
2nd Floor	N/A
3rd Floor	N/A
4th Floor	N/A

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? hand sanitizer

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

RW

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

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? N/A

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) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? Y / N Date of Installation: _____
Is the system active or passive? Active/Passive

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: Public Sewer Septic Tank Leach Field Dry Well (Other: GF WWTP)

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: N/A

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

13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRae 3000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo** Y / N
1st floor	Hand sanitizer	1gal	U.	unknown	0.0	Y
	fire extinguisher		UO	unknown	0.0	Y

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** 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 - August 24, 2020
Former IBM East Fishkill Facility
Building 310 (220) and 320A (210), OGS Warehouse Space

Photo #1: Carbon Dioxide Fire Extinguisher near location IA-07 in Building 310 (220)

Photo #2: In entrance way to Building 310 (220)

APPENDIX B
PHOTOGRAPHIC LOG OF SAMPLING LOCATIONS

Site Photographs
Building 310 (220) and 320A (210), OGS Warehouse Space IAQ Sampling

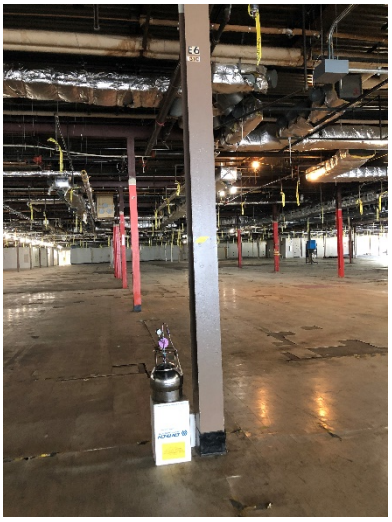
Photograph #1

Sample Location IA-1,
Column AB2 Bldg. 310 (220)

Photograph #2

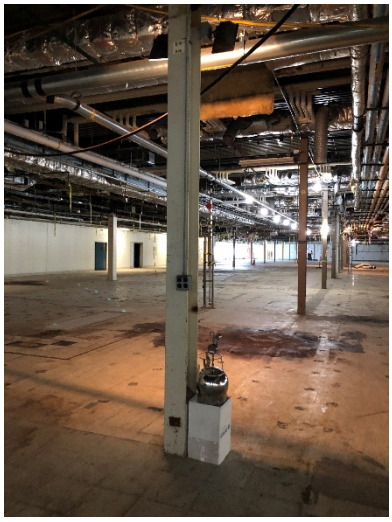
Sample Location IA-2,
Column S4 Bldg. 310 (220)

Photograph #3



Sample Location IA-4,
Column E6 Bldg. 310 (220)

Photograph #4

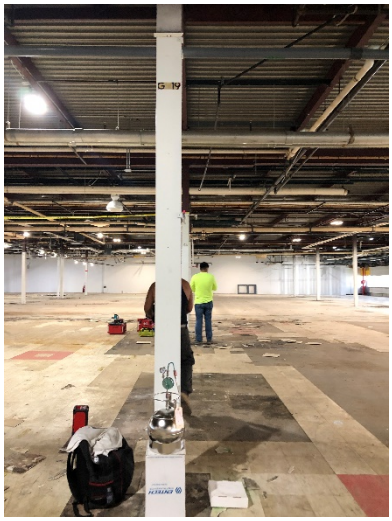


Sample Location IA-5
Column E10 Bldg. 310 (220)

Photograph #5

Sample Location IA-6,
Column B16 Bldg. 310 (220)

Photograph #6



Sample Location IA-8,
Column G19 Bldg. 310 (220)

Photograph #7

Sample Location IA-12,
Column AG4 Bldg. 320A (210)

Photograph #8

Sample Location AA-1,
NE front of Building 320A (210)

APPENDIX C

LABORATORY ANALYTICAL REPORT (CATEGORY B DELIVERABLES)

PHOENIX
Environmental Laboratories, Inc.

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

IPARK0118.28 WAREHOUSE

GCG61553

Ver 2

Data Package Table of Contents

Wednesday, October 21, 2020

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

Project ID: **IPARK0118.28 WAREHOUSE**
SDG ID: **GCG61553**
Sample ID#s: CG61553 - CG61562

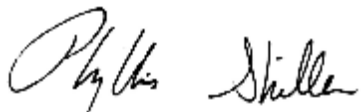
This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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,



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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Walden Environmental Engineering PLLC

Project: IPARK0118.28 WAREHOUSE

Laboratory Project: GCG61553

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

October 21, 2020 **SDG I.D.: GCG61553**

Walden Environmental Engineering PLLC IPARK0118.28 WAREHOUSE

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 # 11301

NY Analytical Services Protocol Format

October 21, 2020 **SDG I.D.: GCG61553**

Walden Environmental Engineering PLLC IPARK0118.28 WAREHOUSE

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CG61553	Volatiles (TO15)	08/24/20	08/25/20	08/25/20	KCA	Y
CG61554	Volatiles (TO15)	08/24/20	08/25/20	08/25/20	KCA	Y
CG61555	Volatiles (TO15)	08/24/20	08/25/20	08/25/20	KCA	Y
CG61556	Volatiles (TO15)	08/24/20	08/25/20	08/25/20	KCA	Y
CG61557	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61558	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61559	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61560	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61561	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61562	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y

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

NY # 11301

SDG Comments

October 21, 2020

SDG I.D.: GCG61553

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

NY # 11301

Sample Id Cross Reference

October 21, 2020

SDG I.D.: GCG61553

Project ID: IPARK0118.28 WAREHOUSE

Client Id	Lab Id	Matrix
IA-4 (COLUMN E6)	CG61553	AIR
IA-1 (NW AREA 310)	CG61554	AIR
IA-8 (COLUMN G19)	CG61555	AIR
IA-11 (COLUMN AB7-320A)	CG61556	AIR
IA-10 (COLUMN US3-320A)	CG61557	AIR
IA-5 (COLUMN E10)	CG61558	AIR
IA-12 (COLUMN AG4-320A)	CG61559	AIR
IA-2 (NW COLUMN Z4)	CG61560	AIR
IA-3 (COLUMN G2)	CG61561	AIR
IA-6 (COLUMN B16)	CG61562	AIR

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

NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:06
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	481				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61553

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-4 (COLUMN E6)

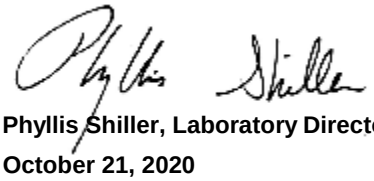
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/25/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/25/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
Acetone	22.4	*1.00*	1.00	53.2	*2.37*	2.37	08/25/20	KCA	1
Benzene	0.413	*0.050*	0.050	1.32	*0.16*	0.16	08/25/20	KCA	1
Carbon Tetrachloride	0.080	*0.020*	0.020	0.50	*0.13*	0.13	08/25/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/25/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
Dichlorodifluoromethane	0.374	*0.200*	0.200	1.85	*0.99*	0.99	08/25/20	KCA	1
Ethylbenzene	0.302	*0.150*	0.150	1.31	*0.65*	0.65	08/25/20	KCA	1
m,p-Xylene	0.833	*0.150*	0.150	3.61	*0.65*	0.65	08/25/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/25/20	KCA	1
o-Xylene	0.343	*0.150*	0.150	1.49	*0.65*	0.65	08/25/20	KCA	1
Tetrachloroethene	0.610	*0.100*	0.100	4.13	*0.68*	0.68	08/25/20	KCA	1
Toluene	1.12	*0.200*	0.200	4.22	*0.75*	0.75	08/25/20	KCA	1
Trichloroethene	0.055	*0.037*	0.037	0.30	*0.20*	0.20	08/25/20	KCA	1
Trichlorofluoromethane	11.8	*0.150*	0.150	66.3	*0.84*	0.84	08/25/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/25/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/25/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	101	*%*	%	101	*%*	%	08/25/20	KCA	1
% IS-1,4-Difluorobenzene	72	*%*	%	72	*%*	%	08/25/20	KCA	1
% IS-Bromochloromethane	75	*%*	%	75	*%*	%	08/25/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	76	%	%	76	%	%	08/25/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	13:48
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	23340				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61554

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-1 (NW AREA 310)

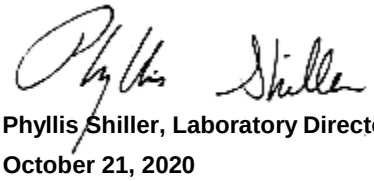
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/25/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/25/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
Acetone	6.22	*1.00*	1.00	14.8	*2.37*	2.37	08/25/20	KCA	1
Benzene	0.194	*0.050*	0.050	0.62	*0.16*	0.16	08/25/20	KCA	1
Carbon Tetrachloride	0.074	*0.020*	0.020	0.47	*0.13*	0.13	08/25/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/25/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
Dichlorodifluoromethane	0.304	*0.200*	0.200	1.50	*0.99*	0.99	08/25/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/25/20	KCA	1
m,p-Xylene	0.391	*0.150*	0.150	1.70	*0.65*	0.65	08/25/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/25/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/25/20	KCA	1
Tetrachloroethene	0.361	*0.100*	0.100	2.45	*0.68*	0.68	08/25/20	KCA	1
Toluene	0.532	*0.200*	0.200	2.00	*0.75*	0.75	08/25/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/25/20	KCA	1
Trichlorofluoromethane	5.01	*0.150*	0.150	28.1	*0.84*	0.84	08/25/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/25/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/25/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	101	*%*	%	101	*%*	%	08/25/20	KCA	1
% IS-1,4-Difluorobenzene	73	*%*	%	73	*%*	%	08/25/20	KCA	1
% IS-Bromochloromethane	75	*%*	%	75	*%*	%	08/25/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	76	%	%	76	%	%	08/25/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:29
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	28558				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61555

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-8 (COLUMN G19)

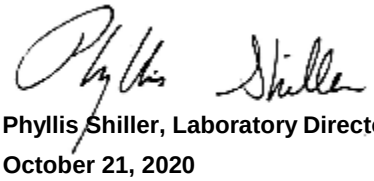
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/25/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/25/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
Acetone	8.11	*1.00*	1.00	19.3	*2.37*	2.37	08/25/20	KCA	1
Benzene	0.305	*0.050*	0.050	0.97	*0.16*	0.16	08/25/20	KCA	1
Carbon Tetrachloride	0.073	*0.020*	0.020	0.46	*0.13*	0.13	08/25/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/25/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
Dichlorodifluoromethane	0.449	*0.200*	0.200	2.22	*0.99*	0.99	08/25/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/25/20	KCA	1
m,p-Xylene	0.609	*0.150*	0.150	2.64	*0.65*	0.65	08/25/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/25/20	KCA	1
o-Xylene	0.350	*0.150*	0.150	1.52	*0.65*	0.65	08/25/20	KCA	1
Tetrachloroethene	0.381	*0.100*	0.100	2.58	*0.68*	0.68	08/25/20	KCA	1
Toluene	0.332	*0.200*	0.200	1.25	*0.75*	0.75	08/25/20	KCA	1
Trichloroethene	0.039	*0.037*	0.037	0.21	*0.20*	0.20	08/25/20	KCA	1
Trichlorofluoromethane	12.4	*0.150*	0.150	69.6	*0.84*	0.84	08/25/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/25/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/25/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	100	*%*	%	100	*%*	%	08/25/20	KCA	1
% IS-1,4-Difluorobenzene	73	*%*	%	73	*%*	%	08/25/20	KCA	1
% IS-Bromochloromethane	75	*%*	%	75	*%*	%	08/25/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	77	%	%	77	%	%	08/25/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:42
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	28605				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61556

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-11 (COLUMN AB7-320A)

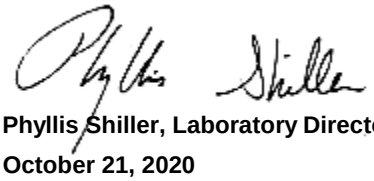
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/25/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/25/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/25/20	KCA	1
Acetone	6.00	*1.00*	1.00	14.2	*2.37*	2.37	08/25/20	KCA	1
Benzene	0.157	*0.050*	0.050	0.50	*0.16*	0.16	08/25/20	KCA	1
Carbon Tetrachloride	0.074	*0.020*	0.020	0.47	*0.13*	0.13	08/25/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/25/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/25/20	KCA	1
Dichlorodifluoromethane	0.393	*0.200*	0.200	1.94	*0.99*	0.99	08/25/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/25/20	KCA	1
m,p-Xylene	0.318	*0.150*	0.150	1.38	*0.65*	0.65	08/25/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/25/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/25/20	KCA	1
Tetrachloroethene	ND	*0.100*	0.100	ND	*0.68*	0.68	08/25/20	KCA	1
Toluene	0.325	*0.200*	0.200	1.22	*0.75*	0.75	08/25/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/25/20	KCA	1
Trichlorofluoromethane	0.734	*0.150*	0.150	4.12	*0.84*	0.84	08/25/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/25/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/25/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	101	*%*	%	101	*%*	%	08/25/20	KCA	1
% IS-1,4-Difluorobenzene	73	*%*	%	73	*%*	%	08/25/20	KCA	1
% IS-Bromochloromethane	75	*%*	%	75	*%*	%	08/25/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	75	%	%	75	%	%	08/25/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:36
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	483				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61557

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-10 (COLUMN US3-320A)

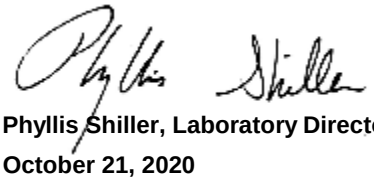
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	4.80	*1.00*	1.00	11.4	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.144	*0.050*	0.050	0.46	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.075	*0.020*	0.020	0.47	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.294	*0.200*	0.200	1.45	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.287	*0.150*	0.150	1.25	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	ND	*0.100*	0.100	ND	*0.68*	0.68	08/26/20	KCA	1
Toluene	0.307	*0.200*	0.200	1.16	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	0.823	*0.150*	0.150	4.62	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	101	*%*	%	101	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	73	*%*	%	73	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	75	*%*	%	75	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	77	%	%	77	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
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

NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:19
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	217				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61558

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-5 (COLUMN E10)

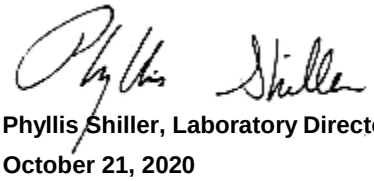
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	8.22	*1.00*	1.00	19.5	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.313	*0.050*	0.050	1.00	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.070	*0.020*	0.020	0.44	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.358	*0.200*	0.200	1.77	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	0.220	*0.150*	0.150	0.95	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.651	*0.150*	0.150	2.83	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	0.329	*0.150*	0.150	1.43	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.467	*0.100*	0.100	3.17	*0.68*	0.68	08/26/20	KCA	1
Toluene	0.977	*0.200*	0.200	3.68	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	12.3	*0.150*	0.150	69.1	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	104	*%*	%	104	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	74	*%*	%	74	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	76	*%*	%	76	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	76	%	%	76	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:39
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	28593				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61559

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-12 (COLUMN AG4-320A)

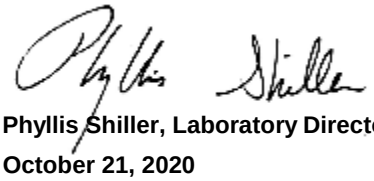
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	7.21	*1.00*	1.00	17.1	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.139	*0.050*	0.050	0.44	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.075	*0.020*	0.020	0.47	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.352	*0.200*	0.200	1.74	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.268	*0.150*	0.150	1.16	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	ND	*0.100*	0.100	ND	*0.68*	0.68	08/26/20	KCA	1
Toluene	0.301	*0.200*	0.200	1.13	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	0.663	*0.150*	0.150	3.72	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	100	*%*	%	100	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	72	*%*	%	72	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	74	*%*	%	74	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	76	%	%	76	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	13:51
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	23330				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61560

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-2 (NW COLUMN Z4)

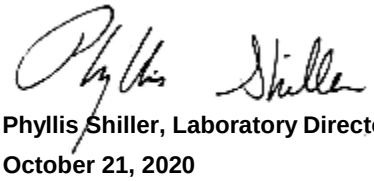
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	5.73	*1.00*	1.00	13.6	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.253	*0.050*	0.050	0.81	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.071	*0.020*	0.020	0.45	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.376	*0.200*	0.200	1.86	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.396	*0.150*	0.150	1.72	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	0.177	*0.150*	0.150	0.77	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.491	*0.100*	0.100	3.33	*0.68*	0.68	08/26/20	KCA	1
Toluene	0.765	*0.200*	0.200	2.88	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	6.00	*0.150*	0.150	33.7	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	101	*%*	%	101	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	74	*%*	%	74	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	75	*%*	%	75	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	77	%	%	77	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
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

NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:16
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	9536				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61561

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-3 (COLUMN G2)

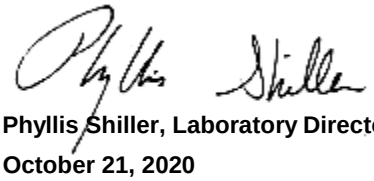
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	6.96	*1.00*	1.00	16.5	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.422	*0.050*	0.050	1.35	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.070	*0.020*	0.020	0.44	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.401	*0.200*	0.200	1.98	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	0.431	*0.150*	0.150	1.87	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.949	*0.150*	0.150	4.12	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	0.391	*0.150*	0.150	1.70	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.620	*0.100*	0.100	4.20	*0.68*	0.68	08/26/20	KCA	1
Toluene	1.39	*0.200*	0.200	5.24	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	0.037	*0.037*	0.037	0.20	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	11.5	*0.150*	0.150	64.6	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	100	*%*	%	100	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	107	*%*	%	107	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	108	*%*	%	108	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	104	%	%	104	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 21, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	13:56
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	28582				

Laboratory Data

SDG ID: GCG61553
Phoenix ID: CG61562

Project ID: IPARK0118.28 WAREHOUSE
Client ID: IA-6 (COLUMN B16)

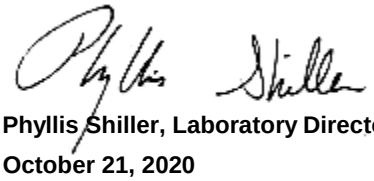
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	8.95	*1.00*	1.00	21.2	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.208	*0.050*	0.050	0.66	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.071	*0.020*	0.020	0.45	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.405	*0.200*	0.200	2.00	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.425	*0.150*	0.150	1.84	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	0.289	*0.150*	0.150	1.25	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.364	*0.100*	0.100	2.47	*0.68*	0.68	08/26/20	KCA	1
Toluene	0.302	*0.200*	0.200	1.14	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	10.2	*0.150*	0.150	57.3	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	99	*%*	%	99	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	113	*%*	%	113	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	112	*%*	%	112	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	111	%	%	111	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 21, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Canister Sampling Information

October 21, 2020

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

Location Code: WALDENE-IPARK

SDG I.D.: GCG61553

Project ID: IPARK0118.28 WAREHOUSE

						Laboratory					Field			
Client Id	Lab Id	Canister Id	Canister Type	Reg. Id	Chk Out Date	Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-4 (COLUMN E6)	CG61553	481	6.0L	5614	08/21/20	-30	-8	10.8	10.8	0.0	-29	-8	08/24/20 07:20	08/24/20 14:06
IA-1 (NW AREA 310)	CG61554	23340	6.0L	5594	08/21/20	-30	-8	10.8	10.6	1.9	-29	-8.5	08/24/20 07:09	08/24/20 13:48
IA-8 (COLUMN G19)	CG61555	28558	6.0L	3264	08/21/20	-30	-8	10.8	10.7	0.9	-29	-8.5	08/24/20 07:36	08/24/20 14:29
IA-11 (COLUMN AB7-	CG61556	28605	6.0L	7043	08/21/20	-30	-7	10.8	10.5	2.8	-30	-9	08/24/20 07:56	08/24/20 14:42
IA-10 (COLUMN US3-	CG61557	483	6.0L	4966	08/21/20	-30	-7	10.8	10.8	0.0	-30	-8.5	08/24/20 07:53	08/24/20 14:36
IA-5 (COLUMN E10)	CG61558	217	6.0L	0862	08/21/20	-30	-8	10.8	9.8	9.7	-30	-8.5	08/24/20 07:23	08/24/20 14:19
IA-12 (COLUMN AG4-	CG61559	28593	6.0L	5659	08/21/20	-30	-9	10.8	10.7	0.9	-30	-9	08/24/20 07:59	08/24/20 14:39
IA-2 (NW COLUMN Z4	CG61560	23330	6.0L	2924	08/21/20	-30	-7	10.8	11.4	5.4	-30	-7	08/24/20 07:12	08/24/20 13:51
IA-3 (COLUMN G2)	CG61561	9536	6.0L	3506	08/21/20	-30	-8	10.8	10.6	1.9	-30	-9	08/24/20 07:18	08/24/20 14:16
IA-6 (COLUMN B16)	CG61562	28582	6.0L	5592	08/21/20	-30	-8	10.8	10.8	0.0	-30	-8.5	08/24/20 07:26	08/24/20 13:56

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 21, 2020

QA/QC Data

SDG I.D.: GCG61553

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 549292 (ppbv), QC Sample No: CG61560 (CG61553, CG61554, CG61555, CG61556, CG61557, CG61558, CG61559, CG61560)													
Volatiles													
1,1,1-Trichloroethane	ND	0.200	ND	1.09	99	94	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	102	99	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.250	ND	1.85	91	88	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.150	ND	0.90	103	100	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.150	ND	0.90	104	102	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.150	ND	0.90	104	102	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	84	82	13.6	13.4	5.73	5.65	1.4	70 - 130	25
Benzene	ND	0.050	ND	0.16	104	101	0.81	0.85	0.253	0.266	5.0	70 - 130	25
Carbon Tetrachloride	ND	0.020	ND	0.13	101	98	0.45	0.45	0.071	0.072	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	103	102	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	102	100	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	87	77	1.86	1.82	0.376	0.369	NC	70 - 130	25
Ethylbenzene	ND	0.150	ND	0.65	104	100	ND	ND	ND	ND	NC	70 - 130	25
m,p-Xylene	ND	0.150	ND	0.65	106	104	1.72	1.68	0.396	0.388	NC	70 - 130	25
Methylene Chloride	ND	0.400	ND	1.39	89	87	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.150	ND	0.65	103	100	0.77	0.74	0.177	0.171	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	103	98	3.33	3.44	0.491	0.507	NC	70 - 130	25
Toluene	ND	0.200	ND	0.75	101	99	2.88	2.89	0.765	0.767	NC	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	102	98	ND	ND	ND	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.150	ND	0.84	101	97	33.7	33.9	6.00	6.04	0.7	70 - 130	25
Trichlorotrifluoroethane	ND	0.150	ND	1.15	103	99	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.020	ND	0.05	108	104	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	98	%	98	%	101	101	101	98	101	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	103	%	103	%	96	103	74	76	74	76	NC	60 - 140	25
% IS-Bromochloromethane	102	%	102	%	97	102	75	75	75	75	NC	60 - 140	25
% IS-Chlorobenzene-d5	102	%	102	%	99	104	77	79	77	79	NC	60 - 140	25
QA/QC Batch 549294 (ppbv), QC Sample No: CG61561 (CG61561, CG61562)													
Volatiles													
1,1,1-Trichloroethane	ND	0.200	ND	1.09	104	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	110	107	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.250	ND	1.85	93	92	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.150	ND	0.90	107	106	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.150	ND	0.90	107	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.150	ND	0.90	107	103	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	93	91	16.5	15.8	6.96	6.65	4.6	70 - 130	25
Benzene	ND	0.050	ND	0.16	101	100	1.35	1.45	0.422	0.454	7.3	70 - 130	25
Carbon Tetrachloride	ND	0.020	ND	0.13	109	104	0.44	0.42	0.070	0.067	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	101	102	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	105	102	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	95	79	1.98	1.92	0.401	0.388	NC	70 - 130	25

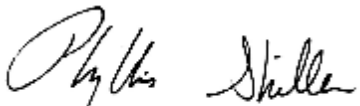
QA/QC Data

SDG I.D.: GCG61553

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
Ethylbenzene	ND	0.150	ND	0.65	103	101	1.87	1.76	0.431	0.405	NC	70 - 130	25
m,p-Xylene	ND	0.150	ND	0.65	106	105	4.12	3.95	0.949	0.910	4.2	70 - 130	25
Methylene Chloride	ND	0.400	ND	1.39	95	93	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.150	ND	0.65	102	102	1.70	1.62	0.391	0.373	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	103	103	4.20	3.66	0.620	0.540	13.8	70 - 130	25
Toluene	ND	0.200	ND	0.75	99	100	5.24	5.16	1.39	1.37	1.4	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	101	100	0.20	ND	0.037	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.150	ND	0.84	111	109	64.6	62.9	11.5	11.2	2.6	70 - 130	25
Trichlorotrifluoroethane	ND	0.150	ND	1.15	106	105	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.020	ND	0.05	109	110	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	99	%	99	%	102	102	100	98	100	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	118	%	118	%	107	112	107	113	107	113	NC	60 - 140	25
% IS-Bromochloromethane	115	%	115	%	106	113	108	112	108	112	NC	60 - 140	25
% IS-Chlorobenzene-d5	112	%	112	%	106	112	104	111	104	111	NC	60 - 140	25

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

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



Phyllis Shiller, Laboratory Director
October 21, 2020

Sample Criteria Exceedances Report

GCG61553 - WALDENE-IPARK

Criteria: NY: AIRIA

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG61553	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	0.610	0.100	0.443	0.443	ppbv
CG61553	$AIR_WALDEN	Trichloroethene	NY / Air Guideline Values / Indor Air	0.055	0.037	0.037	0.037	ppbv
CG61553	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.080	0.020	0.032	0.032	ppbv
CG61553	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.50	0.13	0.2	0.2	ug/m3
CG61553	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	4.13	0.68	3	3	ug/m3
CG61553	$AIR_WALDEN	Trichloroethene	NY / Air Guideline Values / Indor Air	0.30	0.20	0.2	0.2	ug/m3
CG61554	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.074	0.020	0.032	0.032	ppbv
CG61554	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.47	0.13	0.2	0.2	ug/m3
CG61555	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.073	0.020	0.032	0.032	ppbv
CG61555	$AIR_WALDEN	Trichloroethene	NY / Air Guideline Values / Indor Air	0.039	0.037	0.037	0.037	ppbv
CG61555	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.46	0.13	0.2	0.2	ug/m3
CG61555	$AIR_WALDEN	Trichloroethene	NY / Air Guideline Values / Indor Air	0.21	0.20	0.2	0.2	ug/m3
CG61556	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.074	0.020	0.032	0.032	ppbv
CG61556	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.47	0.13	0.2	0.2	ug/m3
CG61557	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.075	0.020	0.032	0.032	ppbv
CG61557	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.47	0.13	0.2	0.2	ug/m3
CG61558	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	0.467	0.100	0.443	0.443	ppbv
CG61558	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.070	0.020	0.032	0.032	ppbv
CG61558	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.44	0.13	0.2	0.2	ug/m3
CG61558	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	3.17	0.68	3	3	ug/m3
CG61559	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.075	0.020	0.032	0.032	ppbv
CG61559	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.47	0.13	0.2	0.2	ug/m3
CG61560	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	0.491	0.100	0.443	0.443	ppbv
CG61560	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.071	0.020	0.032	0.032	ppbv
CG61560	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.45	0.13	0.2	0.2	ug/m3
CG61560	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	3.33	0.68	3	3	ug/m3
CG61561	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.070	0.020	0.032	0.032	ppbv
CG61561	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	0.620	0.100	0.443	0.443	ppbv
CG61561	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.44	0.13	0.2	0.2	ug/m3
CG61561	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	4.20	0.68	3	3	ug/m3
CG61562	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.071	0.020	0.032	0.032	ppbv
CG61562	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.45	0.13	0.2	0.2	ug/m3

Sample Criteria Exceedances Report

GCG61553 - WALDENE-IPARK

Criteria: NY: AIRIA
State: NY

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

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.

10/21/2020

Phoenix Environmental Laboratories, Inc.

Page 35 of 246

PHOENIX Environmental Laboratories, Inc.

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

CHAIN OF CUSTODY RECORD
AIR ANALYSES

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

P.O. # 1Park0118.28 Page 1 of 2

Data Delivery: WCP
☐ Fax #:
☒ Email: nbrew@walden-associates.com
☒ Phone #: 516 624 7200

Report to: Kerri Wright
Customer: Walden Environmental Eng.
Address: 116 Spring St
Oyster Bay NY 11771

Project Name: 1Park0118.28 Warehouse
Invoice to: Carl Monreit - 1Park
Sampled by: Kerri Wright Ken Wright

Data Format: (Circle) Equis Excel Other: PDF
Requested Deliverable: RCP ASP CAT B MCP NJ Deliverables
Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
61553	IA - 4 (Column E6)	481	6.0	-30	-8	5614	10.8	7:20	14:06	8/24/20	-29	-8	X		G	X	
61554	IA - 1 (NW area 310)	23340			-8	5594		7:09	13:48	8/24/20	-29	-8.5	X		G	X	
		23341				3164											
61555	IA - 8 RW (Column G19)	28558			-8	3264		7:36	14:29 29 KN	8/24/20	-29	-8.5	X		G	X	
61556	IA - 11 (Column AB7-320A)	28605			-7	7043		7:50	14:42	8/24/20	-30	-9	X		G	X	
61557	IA - 10 (Column U3-320A)	483			-7	4966		7:53	14:36	8/24/20	-30	-8.5	X		G	X	
		23328				2932											
61558	IA - 5 (Column E10)	217			-8	0862		7:23	14:19	8/24/20	-30	-8.5	X		G	X	
61559	IA - 12 (Column AG4-320A)	28593			-9	5659		7:59	14:39	8/24/20	-30	-9	X		G	X	
61560	IA - 2 (NW Column Z4)	23339			-7	2924		7:12	13:51	8/24/20	-30	-7	X		G	X	

Relinquished by:	Accepted by:	Date:	Time:
Kerri Wright		8-25-20	11:20
		8/25	1626

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

Signature: _____ Date: _____

State Where Samples Collected: New York

Turnaround Time: 1 Day ☒ 2 Day ☐ 3 Day ☐ 4 Day ☐ 5 Day ☐

Requested Criteria: CT: TAC I/C, TAC RES, SVVC I/C, SVVC RES, GWV I/C, GWV CES

(Please Circle)
MA: Indoor Air: Residential, Ind/Commercial; Soil Gas: Residential, Ind/Commercial
NJ: Indoor Air: Residential, Ind/Commercial; Soil Gas: Residential, Ind/Commercial
NY: Vapor Intrusion
PA: Indoor Air: Residential, Non-residential
VT: Indoor Air: Residential, Industrial; Sub-slab: Residential, Industrial

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO-15 "special code list" See Bobbi (2)(6-3) (8+12)
Modified TO-15 analyses per Greg or project QAPP

PEL-115 Rev. 9/2019

WCIP

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

CHAIN OF CUSTODY RECORD
AIR ANALYSES

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

[redacted]

P.O. # iPark0118.28 Page 2 of 2

Data Delivery:
☐ Fax #:
☑ Email: NBrew@walden-associates.com
☑ Phone #: 516 624 7200

Report to: Kerri Wright
Customer: Walden Environmental Eng.
Address: 16 Spring St
Oyster Bay, NY 11771

Project Name: iPark 0118.28
Invoice to: Cari Monheit - iPark
Sampled by: Kerri Wright Kerri Wright

Data Format: (Circle) Equis (Excel) Other: PDF
Requested Deliverable: RCP (ASP CAT B) MCP NJ Deliverables
Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air (MATRIX)	Soil Gas (MATRIX)	Grab (G) Composite (C) (MATRIX)	TO-15 (ANALYSES)	APH (ANALYSES)
		THIS SECTION FOR LAB USE ONLY															
61561	IA-3 (column G2)	9536	6.0	-30	-8	3506	10.8	7:18	14:16	8/24/20	-30	-9	X		G	X	
61562	IA-6 (column B16)	28582	6.0	-30	-8	5592	10.8	7:20	13:56	8/24/20	-30	-8.5	X		G	X	

Relinquished by:	Accepted by:	Date:	Time:
Kerri Wright	[signature]	8-25-20	11:30
[signature]	[signature]	8/25	1626

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

Signature: ______ Date: ______

State Where Samples Collected: New York

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO-15 "special code list" See Bobbi (2)(60) (8HR) / Greg
Modified TO-15 analyses per project QAPP

Turnaround Time:
1 Day ☑
2 Day ☐
3 Day ☐
4 Day ☐
5 Day ☐

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	**Indoor Air:**	**Indoor Air:**	(Vapor Intrusion)	**Indoor Air**	**Indoor Air**
TAC RES	Residential	Residential		Residential	Residential
SVVC I/C	Ind/Commercial	Ind/Commercial		Non-residential	Industrial
SVVC RES	**Soil Gas:**	**Soil Gas:**			**Sub-slab**
GWV I/C	Residential	Residential			Residential
GWV CES	Ind/Commercial	Ind/Commercial			Industrial

PEL-115 Rev. 9/2019

PHOENIX
Environmental Laboratories, Inc.

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

IPARK0118.28 WAREHOUSE

Laboratory Project: GCG61553

Volatile TO15
Ver 2

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 indentification 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.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCG61553

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: IPARK0118.28 WAREHOUSE, 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: CG61560 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG61560 LCSD
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG61561 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG61561 LCSD
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM24 0825_06.D
All compounds were non-detect with the following exceptions: None.
File: CHEM24 0826_06.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM24 0821_09.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0825_01.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0826_01.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM24 08/21/20 - 08/21/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 08/21/20 - 08/21/20
100% of method compounds met criteria.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCG61553

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: IPARK0118.28 WAREHOUSE, Walden Environmental Engineering PLLC

The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM24 0825_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

File: CHEM24 0826_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

File: CHEM24 - 24AIR_0821_wal.M / 0825_01.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / 0825_01.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / 0826_01.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / 0826_01.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / Average Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / Average Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

10/13/20

Alejandro Paredes
Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SDG: GCG61553

QC Batch Id: 549292 QC Sample Id: CG61560

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CG61560 LCS	CG61560 LCS	101				0
02	CG61560 LCSD	CG61560 LCSD	100				0
03	CG61560 BLANK	CG61560 BLANK	98				0
04	IA-4 (COLUMN E6)	CG61553	101				0
05	IA-1 (NW AREA 310)	CG61554	101				0
06	IA-8 (COLUMN G19)	CG61555	100				0
07	IA-11 (COLUMN AB7-320A)	CG61556	101				0
08	IA-10 (COLUMN US3-320A)	CG61557	101				0
09	IA-5 (COLUMN E10)	CG61558	104				0
10	IA-12 (COLUMN AG4-320A)	CG61559	100				0
11	IA-2 (NW COLUMN Z4)	CG61560	101				0
12	IA-2 (NW COLUMN Z4) DUP	CG61560 DUP	99				0
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

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

FORM II AIR

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SDG: GCG61553

QC Batch Id: 549294 QC Sample Id: CG61561

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CG61561 LCS	CG61561 LCS	102				0
02	CG61561 LCSD	CG61561 LCSD	102				0
03	CG61561 BLANK	CG61561 BLANK	99				0
04	IA-3 (COLUMN G2)	CG61561	100				0
05	IA-3 (COLUMN G2) DUP	CG61561 DUP	98				0
06	IA-6 (COLUMN B16)	CG61562	99				0
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

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

FORM II AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCG61553

LCS - Client Id: CG61560 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		8.699	87	70	130
Vinyl Chloride	10		10.83	108	70	130
Acetone	10		8.360	84	70	130
Trichlorofluoromethane	10		10.10	101	70	130
1,1-Dichloroethene	10		10.18	102	70	130
Methylene Chloride	10		8.923	89	70	130
Trichlorotrifluoroethane	10		10.33	103	70	130
Cis-1,2-Dichloroethene	10		10.22	102	70	130
1,1,1-Trichloroethane	10		9.856	99	70	130
Benzene	10		10.35	104	70	130
Carbon Tetrachloride	10		10.11	101	70	130
Trichloroethene	10		10.16	102	70	130
Toluene	10		10.14	101	70	130
Tetrachloroethene	10		10.33	103	70	130
Chlorobenzene	10		10.26	103	70	130
Ethylbenzene	10		10.36	104	70	130
m,p-Xylene	20		21.27	106	70	130
o-Xylene	10		10.27	103	70	130
1,3-Dichlorobenzene	10		10.41	104	70	130
1,4-Dichlorobenzene	10		10.45	105	70	130
1,2-Dichlorobenzene	10		10.34	103	70	130
1,2,4-Trichlorobenzene	10		9.092	91	70	130

FORM III AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCG61553

LCS - Client Id: CG61560 LCSD

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		7.721	77	70	130
Vinyl Chloride	10		10.44	104	70	130
Acetone	10		8.155	82	70	130
Trichlorofluoromethane	10		9.668	97	70	130
1,1-Dichloroethene	10		9.874	99	70	130
Methylene Chloride	10		8.652	87	70	130
Trichlorotrifluoroethane	10		9.935	99	70	130
Cis-1,2-Dichloroethene	10		9.963	100	70	130
1,1,1-Trichloroethane	10		9.437	94	70	130
Benzene	10		10.13	101	70	130
Carbon Tetrachloride	10		9.761	98	70	130
Trichloroethene	10		9.827	98	70	130
Toluene	10		9.911	99	70	130
Tetrachloroethene	10		9.830	98	70	130
Chlorobenzene	10		10.19	102	70	130
Ethylbenzene	10		9.990	100	70	130
m,p-Xylene	20		20.88	104	70	130
o-Xylene	10		10.02	100	70	130
1,3-Dichlorobenzene	10		10.17	102	70	130
1,4-Dichlorobenzene	10		10.19	102	70	130
1,2-Dichlorobenzene	10		10.05	101	70	130
1,2,4-Trichlorobenzene	10		8.849	88	70	130

FORM III AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCG61553

LCS - Client Id: CG61561 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		9.451	95	70	130
Vinyl Chloride	10		10.94	109	70	130
Acetone	10		9.269	93	70	130
Trichlorofluoromethane	10		11.15	112	70	130
1,1-Dichloroethene	10		11.02	110	70	130
Methylene Chloride	10		9.489	95	70	130
Trichlorotrifluoroethane	10		10.56	106	70	130
Cis-1,2-Dichloroethene	10		10.49	105	70	130
1,1,1-Trichloroethane	10		10.38	104	70	130
Benzene	10		10.12	101	70	130
Carbon Tetrachloride	10		10.88	109	70	130
Trichloroethene	10		10.10	101	70	130
Toluene	10		9.942	99	70	130
Tetrachloroethene	10		10.31	103	70	130
Chlorobenzene	10		10.12	101	70	130
Ethylbenzene	10		10.33	103	70	130
m,p-Xylene	20		21.24	106	70	130
o-Xylene	10		10.23	102	70	130
1,3-Dichlorobenzene	10		10.74	107	70	130
1,4-Dichlorobenzene	10		10.70	107	70	130
1,2-Dichlorobenzene	10		10.67	107	70	130
1,2,4-Trichlorobenzene	10		9.303	93	70	130

FORM III AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCG61553

LCS - Client Id: CG61561 LCSD

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		7.878	79	70	130
Vinyl Chloride	10		11.04	110	70	130
Acetone	10		9.108	91	70	130
Trichlorofluoromethane	10		10.88	109	70	130
1,1-Dichloroethene	10		10.67	107	70	130
Methylene Chloride	10		9.349	93	70	130
Trichlorotrifluoroethane	10		10.47	105	70	130
Cis-1,2-Dichloroethene	10		10.24	102	70	130
1,1,1-Trichloroethane	10		10.01	100	70	130
Benzene	10		9.997	100	70	130
Carbon Tetrachloride	10		10.37	104	70	130
Trichloroethene	10		9.968	100	70	130
Toluene	10		9.989	100	70	130
Tetrachloroethene	10		10.34	103	70	130
Chlorobenzene	10		10.22	102	70	130
Ethylbenzene	10		10.09	101	70	130
m,p-Xylene	20		20.98	105	70	130
o-Xylene	10		10.15	102	70	130
1,3-Dichlorobenzene	10		10.48	105	70	130
1,4-Dichlorobenzene	10		10.29	103	70	130
1,2-Dichlorobenzene	10		10.59	106	70	130
1,2,4-Trichlorobenzene	10		9.201	92	70	130

FORM III AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: CG61560 BLANK

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61553

Lab File ID: 0825_06.D Lab Sample ID: CG61560 BLK

Date Analyzed: 08/25/2020 Time Analyzed: 08:43

GC Column: RTX-VMS Lab Batch ID: 549292

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	CG61560 LCS	CG61560 LCS	0825_03.D	07:03
02	CG61560 LCSD	CG61560 LCS	0825_04.D	07:40
03	IA-4 (COLUMN E6)	CG61553	0825_24.D	21:14
04	IA-1 (NW AREA 310)	CG61554	0825_25.D	21:59
05	IA-8 (COLUMN G19)	CG61555	0825_26.D	22:44
06	IA-11 (COLUMN AB7-320A	CG61556	0825_27.D	23:29
07	IA-10 (COLUMN US3-320A	CG61557	0825_28.D	00:18
08	IA-5 (COLUMN E10)	CG61558	0825_29.D	01:04
09	IA-12 (COLUMN AG4-320A	CG61559	0825_30.D	01:50
10	IA-2 (NW COLUMN Z4)	CG61560	0825_31.D	02:30
11	IA-2 (NW COLUMN Z4) DU	CG61560 DUP	0825_32.D	03:11
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: CG61561 BLANK

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61553

Lab File ID: 0826_06.D Lab Sample ID: CG61561 BLK

Date Analyzed: 08/26/2020 Time Analyzed: 10:38

GC Column: RTX-VMS Lab Batch ID: 549294

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	CG61561 LCS	CG61561 LCS	0826_03.D	06:32
02	CG61561 LCSD	CG61561 LCS	0826_04.D	09:35
03	IA-3 (COLUMN G2)	CG61561	0826_07.D	11:19
04	IA-3 (COLUMN G2) DUP	CG61561 DUP	0826_08.D	12:00
05	IA-6 (COLUMN B16)	CG61562	0826_09.D	12:41
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61553

Lab File ID: 0821_09.D BFB Injection Date: 08/21/20

Instrument ID: CHEM24 BFB Injection Time: 13:12

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	34.9			
75	30.0 - 66.0% of mass 95	47.0			
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	90.4			
175	4.0 - 9.0% of mass 174	8.0	(	7.2	)1
176	93.0 - 101.0% of mass 174	96.9	(	87.6	)1
177	5.0 - 9.0% of mass 176	6.4	(	5.6	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.02	0.02	0821_10.D	08/21/20	13:44	
02	ICAL 0.035	0.035	0821_11.D	08/21/20	14:16	
03	ICAL 0.05	0.05	0821_12.D	08/21/20	14:49	
04	ICAL 0.1	0.10	0821_13.D	08/21/20	15:22	
05	ICAL 0.5	0.5	0821_14.D	08/21/20	15:59	
06	ICAL 2.5	2.5	0821_15.D	08/21/20	16:36	
07	ICAL 5	5.0	0821_16.D	08/21/20	17:09	
08	ICAL 25	25	0821_17.D	08/21/20	18:42	
09	ICAL 40	40	0821_18.D	08/21/20	19:22	
10	ICAL 1	1.0ppb cc	0821_20.D	08/21/20	20:28	
11	ICAL 10	10ppb cc	0821_21.D	08/21/20	21:53	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_09.D
Acq On : 21 Aug 2020 1:12 pm
Operator : Keith
Sample : 0/0 (Sig #1); 0.02 (Sig #2)
Misc :
ALS Vial : 7 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	34.9	38467	PASS
75	95	30	66	47.0	51808	PASS
95	95	100	100	100.0	110259	PASS
96	95	5	9	6.7	7417	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.4	99648	PASS
175	174	4	9	8.0	7961	PASS
176	174	93	101	96.9	96549	PASS
177	176	5	9	6.4	6163	PASS

24AIR_0821.M Mon Aug 24 09:10:56 2020

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61553

Lab File ID: 0825_01.D BFB Injection Date: 08/25/20

Instrument ID: CHEM24 BFB Injection Time: 05:52

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	32.3			
75	30.0 - 66.0% of mass 95	45.8			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.8			
173	Less than 2.0% of mass 174	0.0	(	0.0	)1
174	50.0 - 120.0% of mass 95	93.6			
175	4.0 - 9.0% of mass 174	7.6	(	7.1	)1
176	93.0 - 101.0% of mass 174	96.1	(	89.9	)1
177	5.0 - 9.0% of mass 176	6.4	(	5.7	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0ppb cc	0825_01.D	08/25/20	05:52	
02	CG61560 LCS	CG61560 LCS	0825_03.D	08/25/20	07:03	
03	CG61560 LCSD	CG61560 LCSD	0825_04.D	08/25/20	07:40	
04	CG61560 BLANK	CG61560 BLANK	0825_06.D	08/25/20	08:43	
05	IA-4 (COLUMN E6)	CG61553	0825_24.D	08/25/20	21:14	
06	IA-1 (NW AREA 310)	CG61554	0825_25.D	08/25/20	21:59	
07	IA-8 (COLUMN G19)	CG61555	0825_26.D	08/25/20	22:44	
08	IA-11 (COLUMN AB7-320A)	CG61556	0825_27.D	08/25/20	23:29	
09	IA-10 (COLUMN US3-320A)	CG61557	0825_28.D	08/26/20	00:18	
10	IA-5 (COLUMN E10)	CG61558	0825_29.D	08/26/20	01:04	
11	IA-12 (COLUMN AG4-320A)	CG61559	0825_30.D	08/26/20	01:50	
12	IA-2 (NW COLUMN Z4)	CG61560	0825_31.D	08/26/20	02:30	
13	IA-2 (NW COLUMN Z4) DUP	CG61560 DUP	0825_32.D	08/26/20	03:11	
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_01.D
Acq On : 25 Aug 2020 5:52 am
Operator : Keith
Sample : 1.0ppb cc
Misc :
ALS Vial : 170 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	32.3	40840	PASS
75	95	30	66	45.8	57909	PASS
95	95	100	100	100.0	126392	PASS
96	95	5	9	6.8	8631	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	93.6	118240	PASS
175	174	4	9	7.6	8930	PASS
176	174	93	101	96.1	113627	PASS
177	176	5	9	6.4	7234	PASS

24AIR_0821.M Tue Aug 25 08:48:51 2020

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61553

Lab File ID: 0826_01.D BFB Injection Date: 08/26/20

Instrument ID: CHEM24 BFB Injection Time: 05:21

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1665, 1666, 1667; Background Corrected with Scan 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	36.3			
75	30.0 - 66.0% of mass 95	48.4			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.5			
173	Less than 2.0% of mass 174	0.0	(	0.0	)1
174	50.0 - 120.0% of mass 95	87.8			
175	4.0 - 9.0% of mass 174	7.7	(	6.8	)1
176	93.0 - 101.0% of mass 174	97.2	(	85.3	)1
177	5.0 - 9.0% of mass 176	6.5	(	5.6	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0ppb cc	0826_01.D	08/26/20	05:21	
02	CG61561 LCS	CG61561 LCS	0826_03.D	08/26/20	06:32	
03	CG61561 LCSD	CG61561 LCSD	0826_04.D	08/26/20	09:35	
04	CG61561 BLANK	CG61561 BLANK	0826_06.D	08/26/20	10:38	
05	IA-3 (COLUMN G2)	CG61561	0826_07.D	08/26/20	11:19	
06	IA-3 (COLUMN G2) DUP	CG61561 DUP	0826_08.D	08/26/20	12:00	
07	IA-6 (COLUMN B16)	CG61562	0826_09.D	08/26/20	12:41	
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Sample : 1.0ppb cc
Misc :
ALS Vial : 206 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020

AutoFind: Scans 1665, 1666, 1667; Background Corrected with Scan 1658

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	36.3	35440	PASS
75	95	30	66	48.4	47224	PASS
95	95	100	100	100.0	97624	PASS
96	95	5	9	6.5	6374	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.8	85728	PASS
175	174	4	9	7.7	6595	PASS
176	174	93	101	97.2	83301	PASS
177	176	5	9	6.5	5428	PASS

24AIR_0821.M Wed Aug 26 08:18:28 2020

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.: GCG61553

Lab Method / File Id: 24AIR_0821_wal.M / Average Date Analyzed: 08/21/20

Instrument ID: CHEM24 Time Analyzed: 20:28

GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg	#	RT Avg	#	IS2 (DFB) Area Avg	#	RT Avg	#	IS3 (CBZ) Area Avg	#	RT Avg	#			LAB FILE ID
	12 HOUR STD	103606		5.41		305935		7.34		138704		10.92				Average
	UPPER LIMIT	145566		5.74		429839		7.67		194879		11.25				Average
	LOWER LIMIT	61645		5.08		182032		7.01		82529		10.59				Average
	CLIENT ID															
01	ICAL 0.5	93235		5.40		281434		7.34		127016		10.91				0821_14.D
02	ICAL 2.5	92880		5.41		275668		7.34		128123		10.91				0821_15.D
03	ICAL 5	91703		5.41		278278		7.34		126820		10.91				0821_16.D
04	ICAL 25	98597		5.41		288204		7.34		132631		10.92				0821_17.D
05	ICAL 40	118862		5.42		326095		7.35		149227		10.92				0821_18.D
06	ICAL 1	117268		5.41		359263		7.34		156114		10.91				0821_20.D
07	ICAL 10	112694		5.41		332606		7.34		150998		10.91				0821_21.D
08																
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.: GCG61553

Lab Method / File Id: 24AIR_0821_wal.M / Average Date Analyzed: 08/21/20

Instrument ID: CHEM24 Time Analyzed: 20:28

GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg	#	RT Avg	#	IS2 (DFB) Area Avg	#	RT Avg	#	IS3 (CBZ) Area Avg	#	RT Avg	#			LAB FILE ID
	12 HOUR STD	108641		5.41		341367		7.34		146029		10.91				Average
	UPPER LIMIT	152641		5.74		479620		7.67		205171		11.24				Average
	LOWER LIMIT	64642		5.08		203113		7.01		86887		10.58				Average
	CLIENT ID															
01	ICAL 0.02	106227		5.41		336290		7.34		142902		10.91				0821_10.D
02	ICAL 0.035	105710		5.41		333687		7.34		142193		10.92				0821_11.D
03	ICAL 0.05	105014		5.41		332172		7.34		139165		10.92				0821_12.D
04	ICAL 0.1	104665		5.41		329453		7.34		140614		10.92				0821_13.D
05	ICAL 0.5	101878		5.41		321739		7.34		138903		10.92				0821_14.D
06	ICAL 2.5	101644		5.41		316521		7.34		137895		10.92				0821_15.D
07	ICAL 5	102068		5.41		318697		7.34		139448		10.92				0821_16.D
08	ICAL 1	127421		5.41		405943		7.34		170232		10.91				0821_20.D
09	ICAL 10	123145		5.41		377797		7.34		162912		10.92				0821_21.D
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
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCG61553

Lab Method / File Id: 24AIR_0821_wal.M / 0825_01.D Date Analyzed: 08/25/20

Instrument ID: CHEM24 Time Analyzed: 5:52

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	113735	5.41	349323	7.34	151809	10.91			0825_01.D
	UPPER LIMIT	159798	5.74	490799	7.67	213292	11.24			0825_01.D
	LOWER LIMIT	67672	5.08	207847	7.01	90326	10.58			0825_01.D
	CLIENT ID									
01	CCAL 1	113735	5.41	349323	7.34	151809	10.91			0825_01.D
02	CG61560 LCS	109925	5.42	334781	7.35	149703	10.92			0825_03.D
03	CG61560 LCSD	115587	5.42	358291	7.35	158447	10.91			0825_04.D
04	CG61560 BLANK	116476	5.41	359332	7.34	154428	10.91			0825_06.D
05	IA-4 (COLUMN E6)	85035	5.41	252381	7.34	114749	10.91			0825_24.D
06	IA-1 (NW AREA 310)	85547	5.41	254569	7.34	116012	10.91			0825_25.D
07	IA-8 (COLUMN G19)	85248	5.41	256182	7.34	116138	10.91			0825_26.D
08	IA-11 (COLUMN AB7-320A)	84853	5.40	254716	7.34	113856	10.91			0825_27.D
09	IA-10 (COLUMN US3-320A)	84835	5.40	255977	7.34	116664	10.91			0825_28.D
10	IA-5 (COLUMN E10)	86939	5.40	259063	7.33	115171	10.91			0825_29.D
11	IA-12 (COLUMN AG4-320A)	84371	5.40	251574	7.33	115863	10.91			0825_30.D
12	IA-2 (NW COLUMN Z4)	85239	5.41	260184	7.34	116967	10.91			0825_31.D
13	IA-2 (NW COLUMN Z4) DU	85342	5.40	263837	7.34	119307	10.91			0825_32.D
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.: GCG61553

Lab Method / File Id: 24AIR_0821_wal.M / 0825_01.D Date Analyzed: 08/25/20

Instrument ID: CHEM24 Time Analyzed: 5:52

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	124673		5.41		349323		7.34		151809		10.91				0825_01.D
	UPPER LIMIT	175166		5.74		490799		7.67		213292		11.24				0825_01.D
	LOWER LIMIT	74180		5.08		207847		7.01		90326		10.58				0825_01.D
	CLIENT ID															
01	CCAL 1	124673		5.41		349323		7.34		151809		10.91				0825_01.D
02	CG61560 LCS	119610		5.42		334781		7.35		149703		10.92				0825_03.D
03	CG61560 LCSD	126740		5.41		358291		7.35		158447		10.91				0825_04.D
04	CG61560 BLANK	126285		5.41		359332		7.34		154428		10.91				0825_06.D
05	IA-4 (COLUMN E6)	93726		5.41		252381		7.34		114749		10.91				0825_24.D
06	IA-1 (NW AREA 310)	94298		5.40		254569		7.34		116012		10.91				0825_25.D
07	IA-8 (COLUMN G19)	93668		5.40		256182		7.34		116138		10.91				0825_26.D
08	IA-11 (COLUMN AB7-320A)	93021		5.40		254716		7.34		113856		10.91				0825_27.D
09	IA-10 (COLUMN US3-320A)	93836		5.40		255977		7.34		116664		10.91				0825_28.D
10	IA-5 (COLUMN E10)	95280		5.41		259063		7.33		115171		10.91				0825_29.D
11	IA-12 (COLUMN AG4-320A)	92896		5.40		251574		7.33		115863		10.91				0825_30.D
12	IA-2 (NW COLUMN Z4)	94774		5.41		260184		7.34		116967		10.91				0825_31.D
13	IA-2 (NW COLUMN Z4) DU	95143		5.41		263837		7.34		119307		10.91				0825_32.D
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.: GCG61553

Lab Method / File Id: 24AIR_0821_wal.M / 0826_01.D Date Analyzed: 08/26/20

Instrument ID: CHEM24 Time Analyzed: 5:21

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	86894		5.41		262040		7.34		120042		10.91				0826_01.D
	UPPER LIMIT	122086		5.74		368166		7.67		168659		11.24				0826_01.D
	LOWER LIMIT	51702		5.08		155914		7.01		71425		10.58				0826_01.D
	CLIENT ID															
01	CCAL 1	86894		5.41		262040		7.34		120042		10.91				0826_01.D
02	CG61561 LCS	92271		5.41		279111		7.34		127530		10.91				0826_03.D
03	CG61561 LCSD	98216		5.41		294304		7.34		134634		10.91				0826_04.D
04	CG61561 BLANK	100132		5.41		309471		7.33		133930		10.91				0826_06.D
05	IA-3 (COLUMN G2)	93693		5.41		281351		7.34		125426		10.91				0826_07.D
06	IA-3 (COLUMN G2) DUP	97459		5.41		295353		7.34		132983		10.91				0826_08.D
07	IA-6 (COLUMN B16)	97673		5.41		297218		7.33		133259		10.91				0826_09.D
08																
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.: GCG61553

Lab Method / File Id: 24AIR_0821_wal.M / 0826_01.D Date Analyzed: 08/26/20

Instrument ID: CHEM24 Time Analyzed: 5:21

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	95039		5.41		262040		7.34		120042		10.91				0826_01.D
	UPPER LIMIT	133530		5.74		368166		7.67		168659		11.24				0826_01.D
	LOWER LIMIT	56548		5.08		155914		7.01		71425		10.58				0826_01.D
	CLIENT ID															
01	CCAL 1	95039		5.41		262040		7.34		120042		10.91				0826_01.D
02	CG61561 LCS	100683		5.41		279111		7.34		127530		10.91				0826_03.D
03	CG61561 LCSD	106431		5.41		294304		7.34		134634		10.91				0826_04.D
04	CG61561 BLANK	110170		5.41		309471		7.33		133930		10.91				0826_06.D
05	IA-3 (COLUMN G2)	102967		5.40		281351		7.34		125426		10.91				0826_07.D
06	IA-3 (COLUMN G2) DUP	106507		5.41		295353		7.34		132983		10.91				0826_08.D
07	IA-6 (COLUMN B16)	106457		5.41		297218		7.33		133259		10.91				0826_09.D
08																
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

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-4 (COLUMN E6)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61553

Canister: 481 Lab File ID: 0825_24.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.374		0.200	0.200	r
67-64-1	Acetone	22.4	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.8		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.413		0.050	0.050	r
108-88-3	Toluene	1.12		0.200	0.200	r
127-18-4	Tetrachloroethene	0.610		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.302		0.150	0.150	r
179601-23-1	m,p-Xylene	0.833		0.150	0.150	r
95-47-6	o-Xylene	0.343		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.080		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.055		0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_24.D
Acq On : 25 Aug 2020 9:14 pm
Operator : Keith
Client ID : IA-4 (COLUMN E6)
Lab ID : CG61553
ALS Vial : 193 Sample Multiplier: 1

Quant Time: Oct 13 15:43:43 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

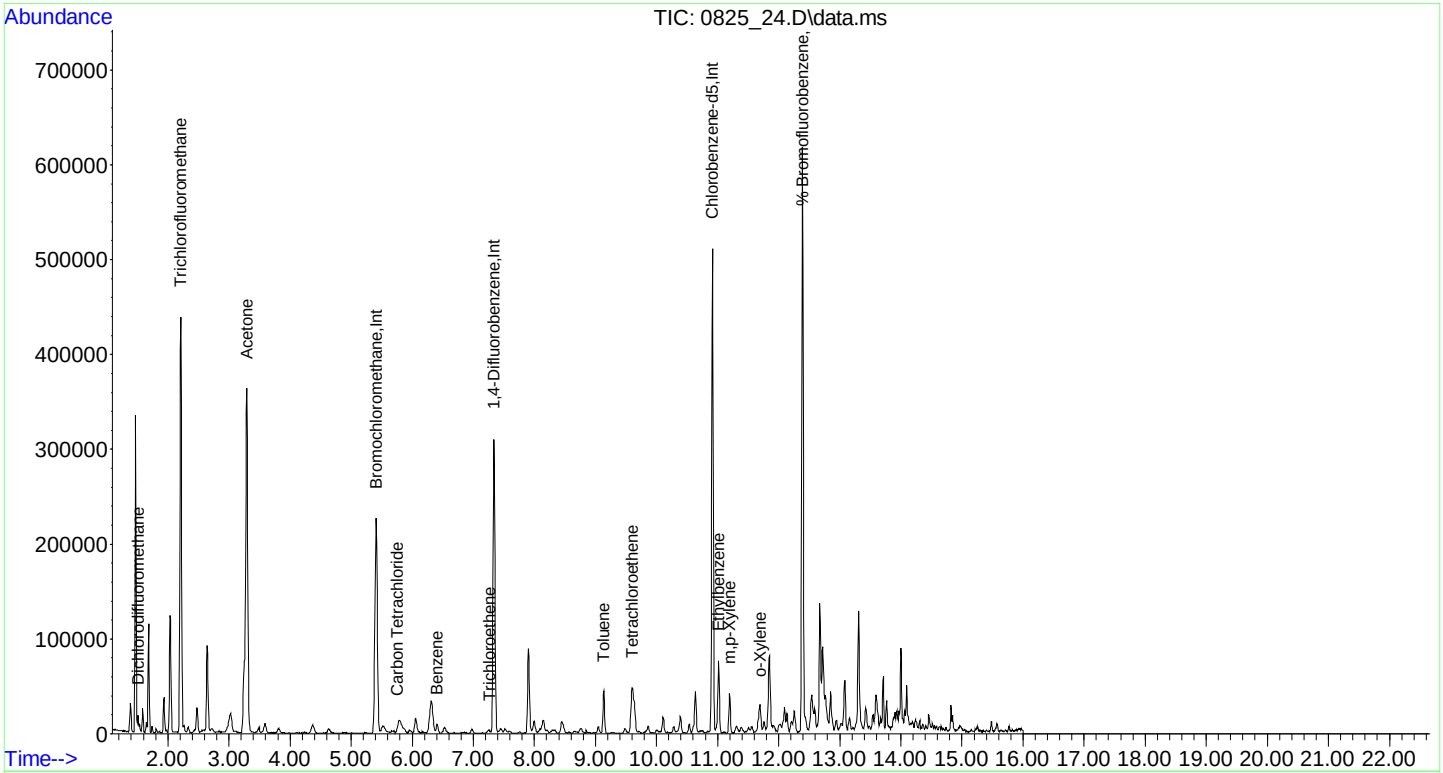
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	85035	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	252381	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	114749	10.000	ng		0.00
30) Bromochloromethane(sim)	5.413	130	93726	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	252381	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	114749	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.389	95	180059	10.062	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.513	85	5737	0.374	ppbv		98
4) Acetone	3.293	43	559827	22.356	ppbv		93
5) Trichlorofluoromethane	2.211	101	304600	11.829	ppbv		100
13) Benzene	6.409	78	6706	0.413	ppbv		92
14) Carbon Tetrachloride	5.763	117	2212	0.089	ppbv		93
17) Trichloroethene	7.272	130	595	0.048	ppbv		93
18) Toluene	9.138	91	26499	1.118	ppbv		99
19) Tetrachloroethene	9.600	166	8975	0.610	ppbv		99
22) Ethylbenzene	11.018	91	9976	0.302	ppbv		97
23) m,p-Xylene	11.196	91	20994	0.833	ppbv		96
24) o-Xylene	11.697	91	9380	0.343	ppbv		99
34] Carbon Tetrachloride(sim)	5.766	117	2342	0.080	ppbv		98
44] Trichloroethene(sim)	7.268	130	683	0.055	ppbv		99
46] Tetrachloroethene(sim)	9.603	166	10184	0.767	ppbv		99
48] m,p-Xylene(sim)	11.199	91	23063	0.934	ppbv		99

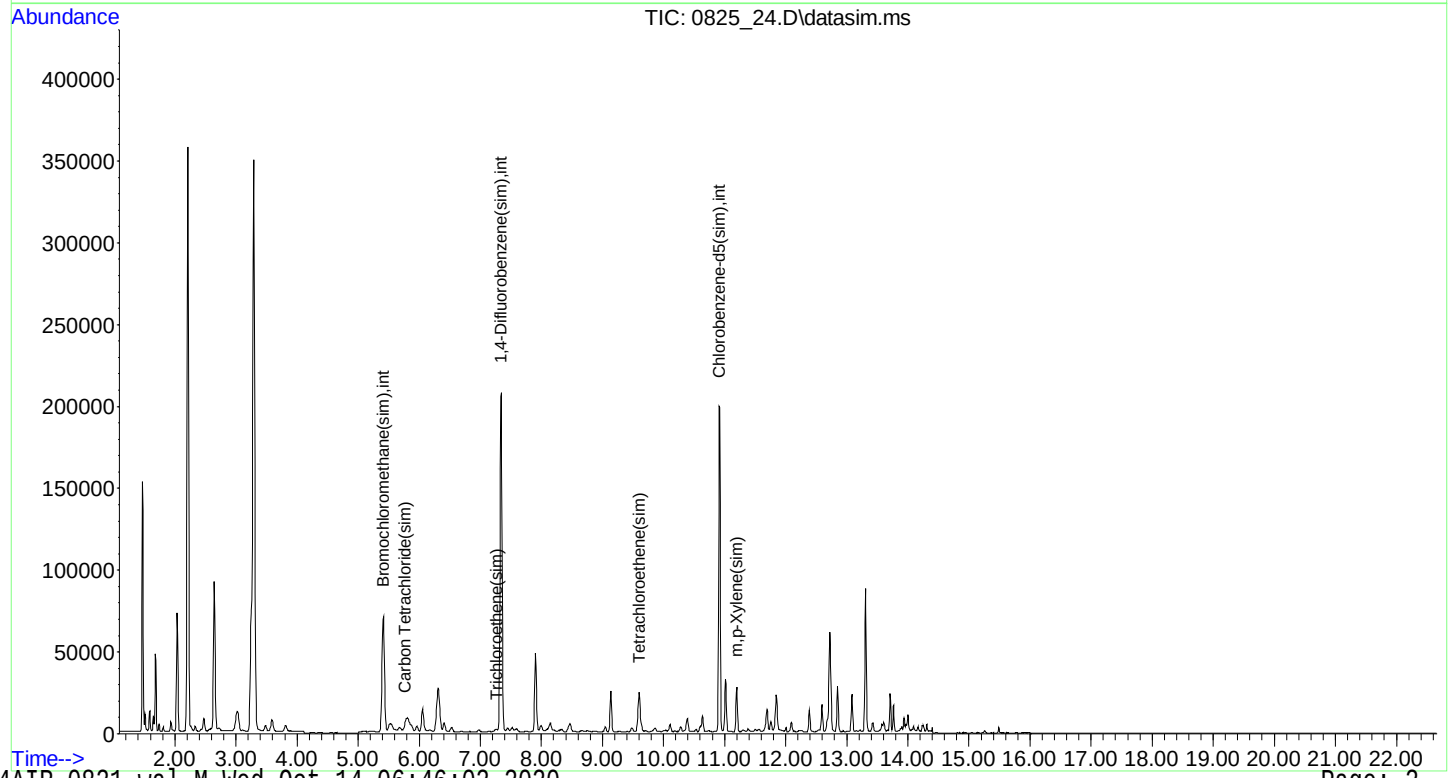
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

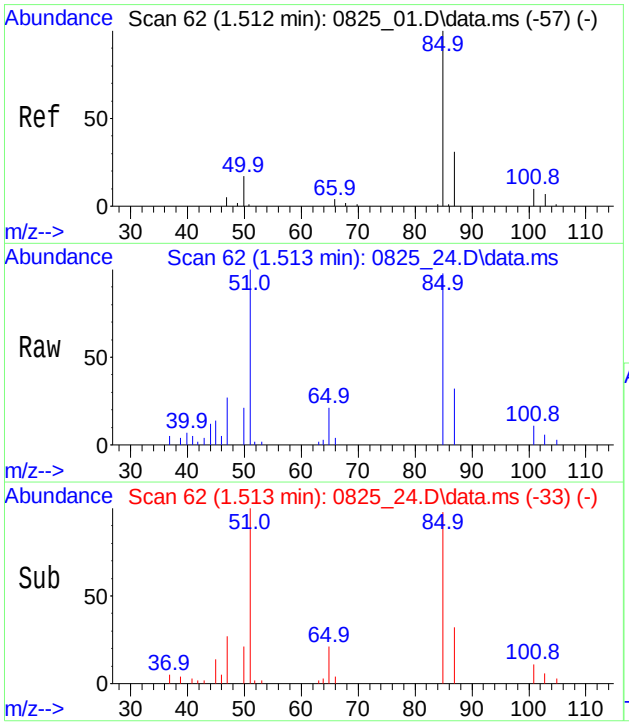
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_24.D
Acq On : 25 Aug 2020 9:14 pm
Operator : Keith
Client ID : IA-4 (COLUMN E6)
Lab ID : CG61553
ALS Vial : 193 Sample Multiplier: 1

Quant Time: Oct 13 15:43:43 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



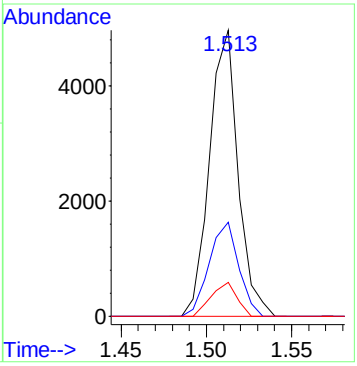


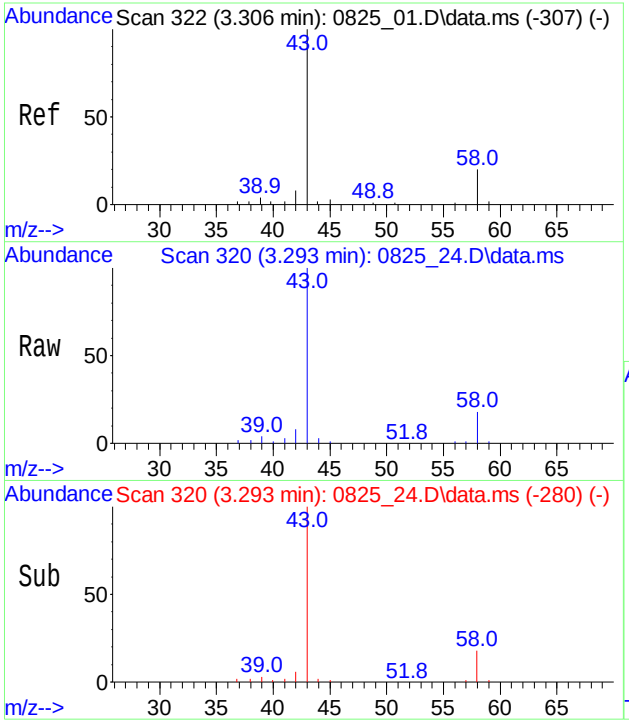


#2
Dichlorodifluoromethane
Conc: 8$ 0.374 ppbv
RT: 1.513 min Scan# 62
Delta R.T. -0.000 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 85 Resp: 5737

Ion	Ratio	Lower	Upper
85	100		
87	33.9	26.1	39.1
101	10.5	8.4	12.6

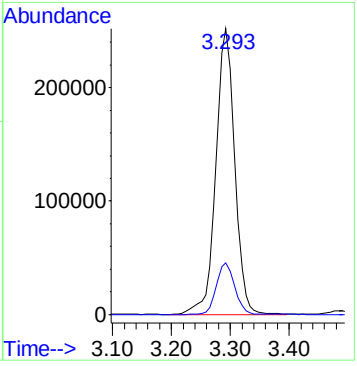


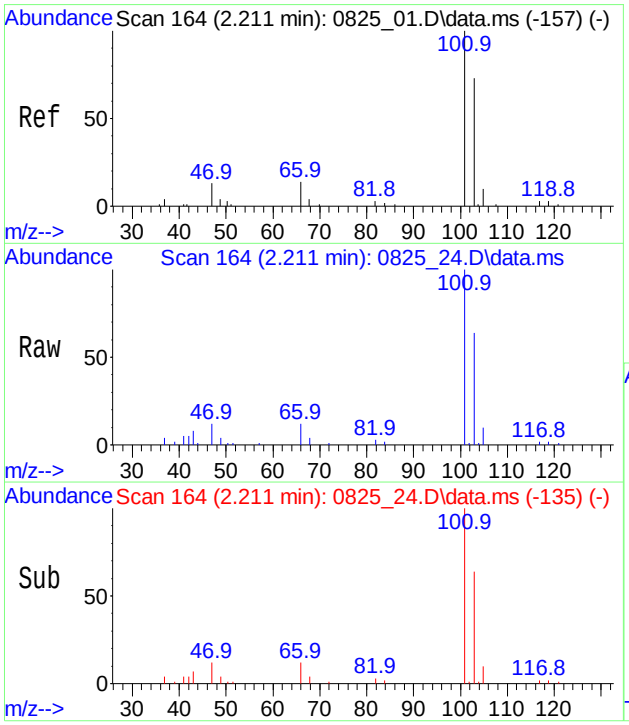


#4
Acetone
Conc: 8$ 22.356 ppbv
RT: 3.293 min Scan# 320
Delta R.T. -0.027 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 43 Resp: 559827

Ion	Ratio	Lower	Upper
43	100		
58	17.5	16.7	25.1

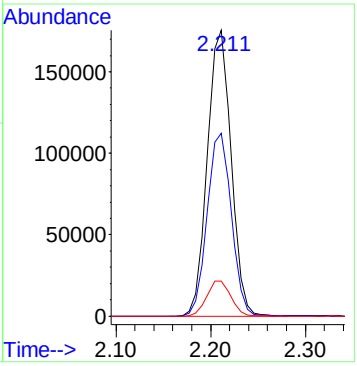


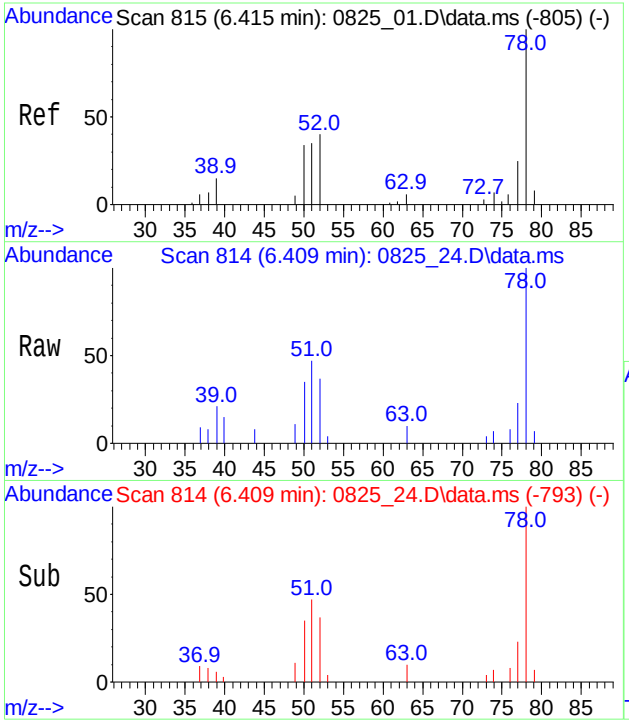


#5
Trichlorofluoromethane
Conc: 8$ 11.829 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:101 Resp: 304600

Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.1	78.1
66	12.6	9.8	14.6

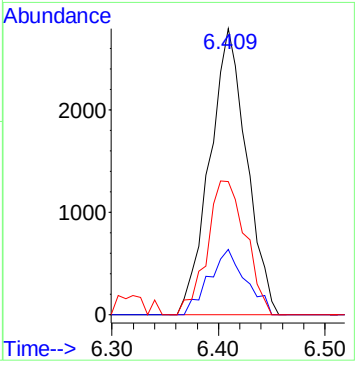


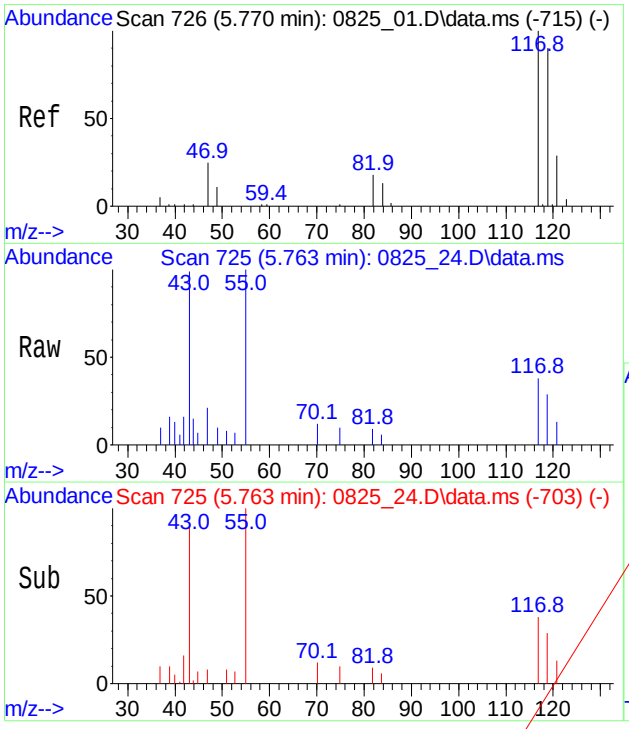


#13
Benzene
Conc: 8$ 0.413 ppbv
RT: 6.409 min Scan# 814
Delta R.T. -0.005 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 78 Resp: 6706

Ion	Ratio	Lower	Upper
78	100		
77	22.7	19.0	28.6
51	48.8	33.0	49.6

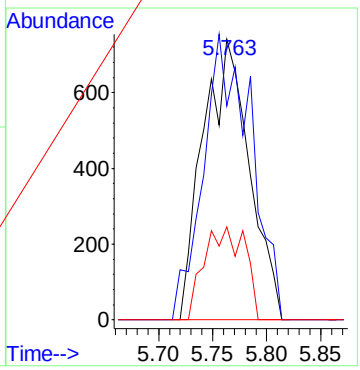


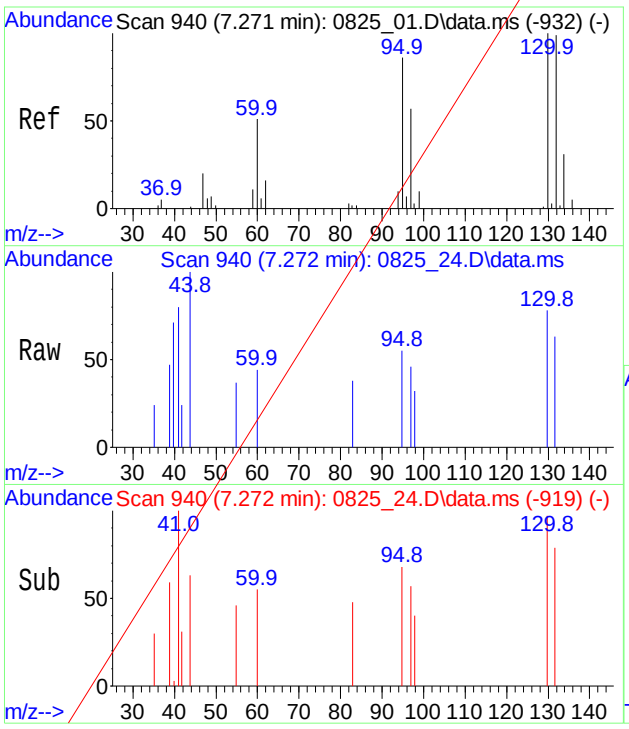


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.763 min Scan# 725
Delta R.T. 0.009 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:117 Resp: 2212

Ion	Ratio	Lower	Upper
117	100		
119	104.0	76.4	116.4
121	29.1	11.9	51.9

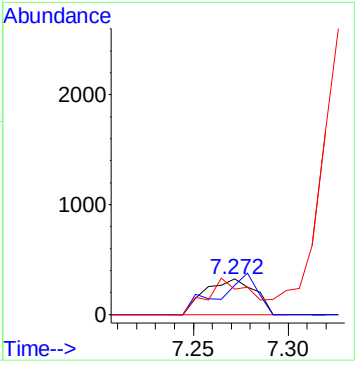


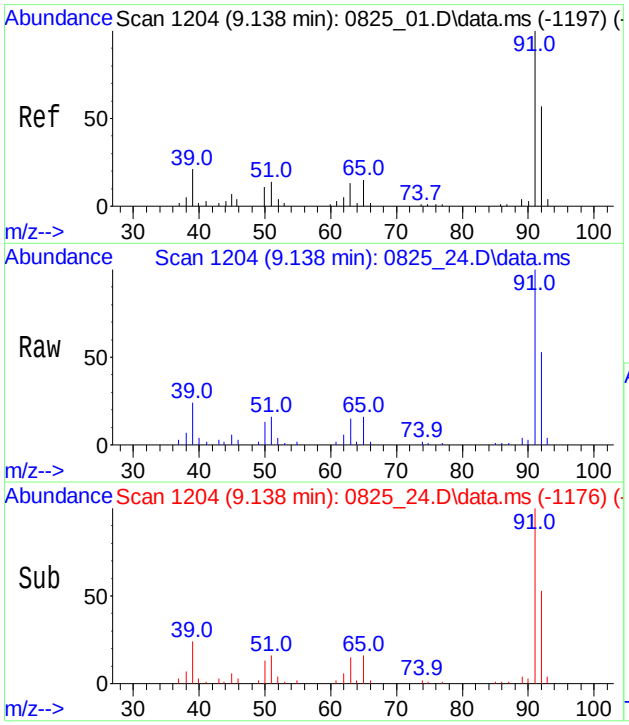


#17
Trichloroethene
Conc: 8$ Below Cal
RT: 7.272 min Scan# 940
Delta R.T. -0.005 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:130 Resp: 595

Ion	Ratio	Lower	Upper
130	100		
132	87.6	77.1	115.7
95	84.5	71.7	107.5

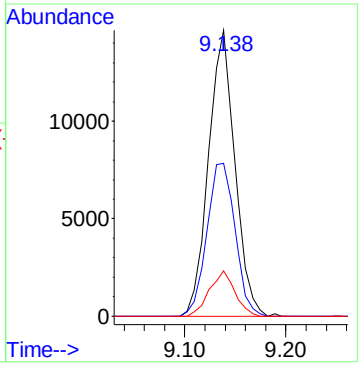


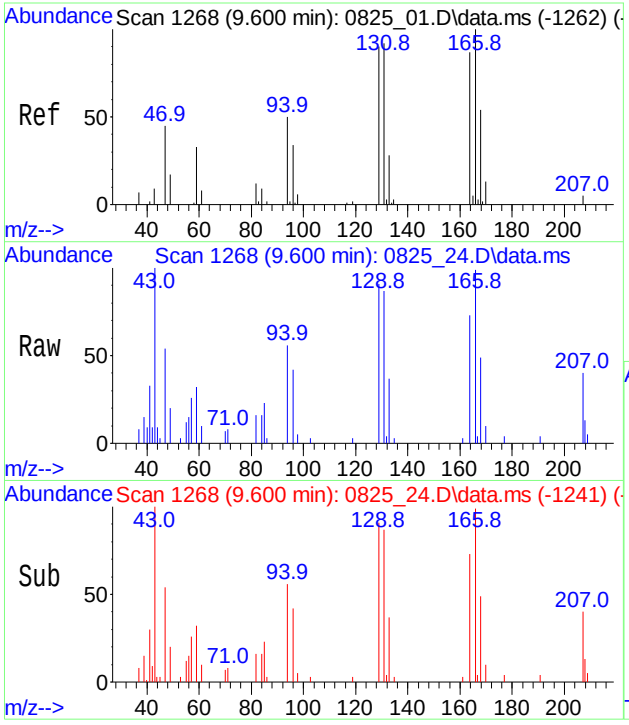


#18
Toluene
Conc: 8$ 1.118 ppbv
RT: 9.138 min Scan# 1204
Delta R.T. 0.002 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 91 Resp: 26499

Ion	Ratio	Lower	Upper
91	100		
92	56.9	46.2	69.2
65	15.1	11.0	16.6

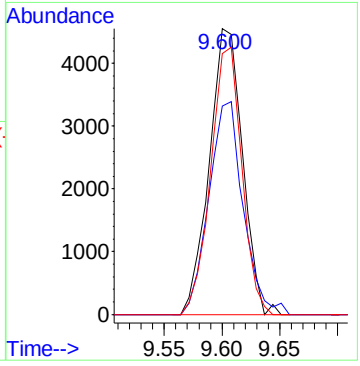


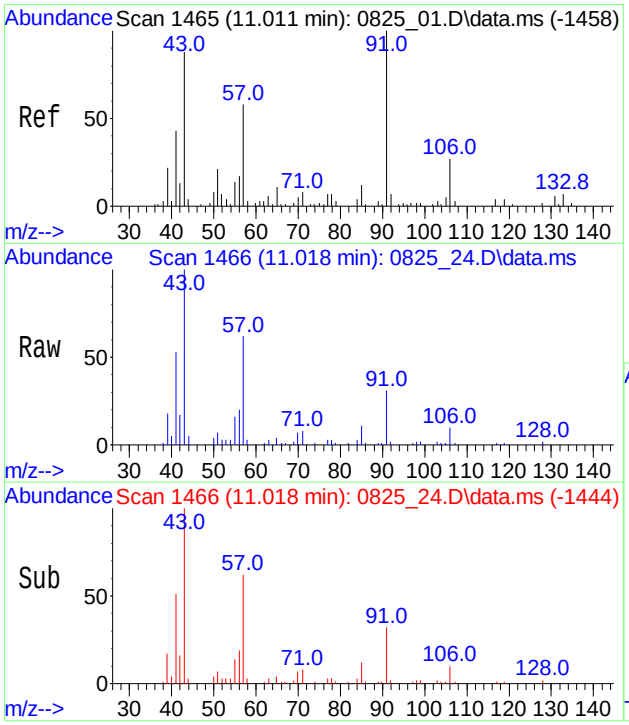


#19
Tetrachloroethene
Conc: 8$ 0.610 ppbv
RT: 9.600 min Scan# 1268
Delta R.T. -0.005 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:166 Resp: 8975

Ion	Ratio	Lower	Upper
166	100		
164	76.9	62.4	93.6
129	87.4	69.8	104.8

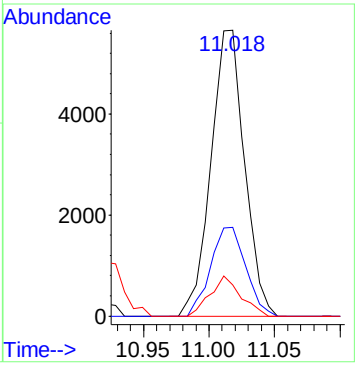


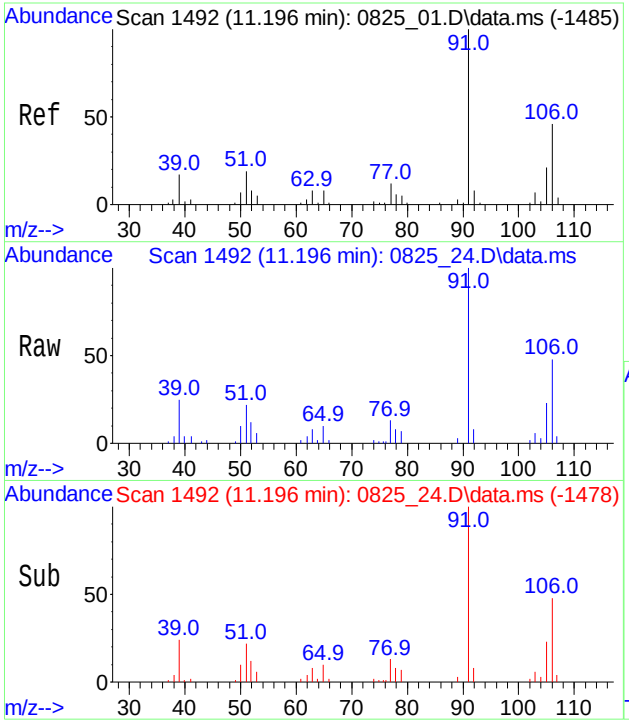


#22
Ethylbenzene
Conc: 8$ 0.302 ppbv
RT: 11.018 min Scan# 1466
Delta R.T. 0.002 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 91 Resp: 9976

Ion	Ratio	Lower	Upper
91	100		
106	32.6	12.2	52.2
77	12.8	0.0	28.6

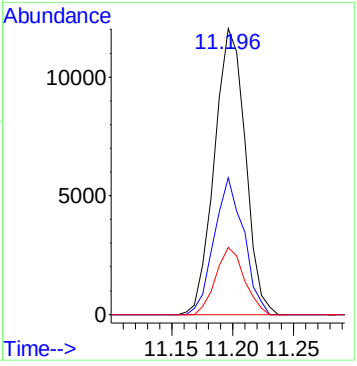


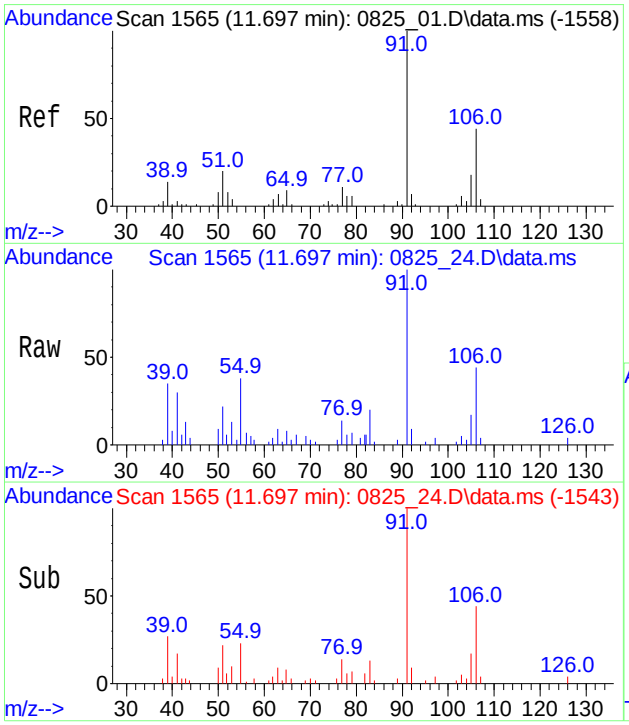


#23
m,p-Xylene
Conc: 8$ 0.833 ppbv
RT: 11.196 min Scan# 1492
Delta R.T. -0.005 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 91 Resp: 20994

Ion	Ratio	Lower	Upper
91	100		
106	45.9	39.3	58.9
105	21.7	17.8	26.6

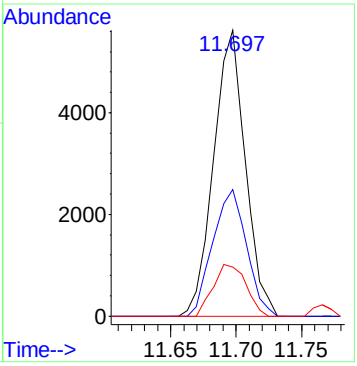


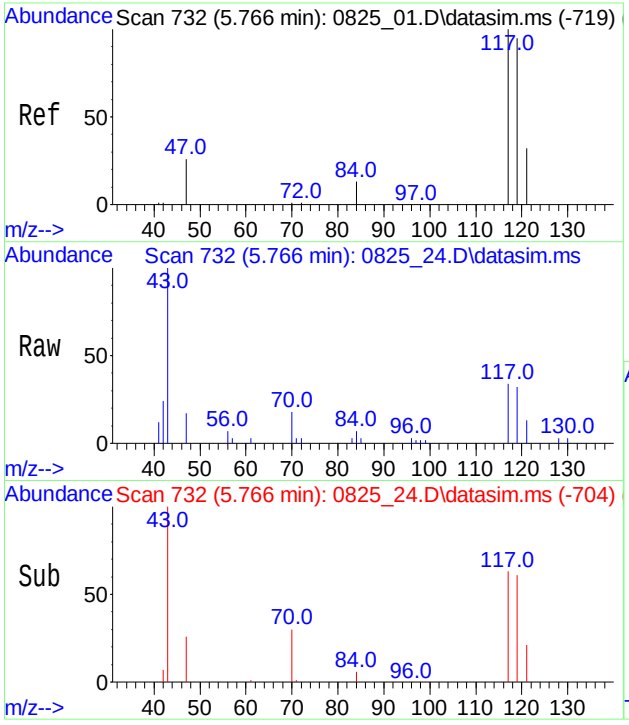


#24
o-Xylene
Conc: 8$ 0.343 ppbv
RT: 11.697 min Scan# 1565
Delta R.T. 0.002 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 91 Resp: 9380

Ion	Ratio	Lower	Upper
91	100		
106	46.9	38.0	57.0
105	18.7	15.0	22.6

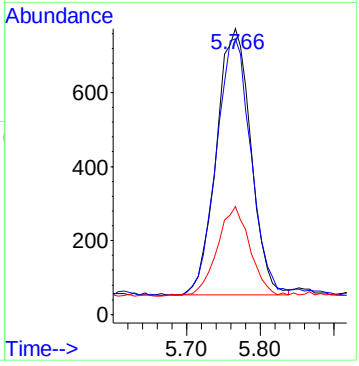


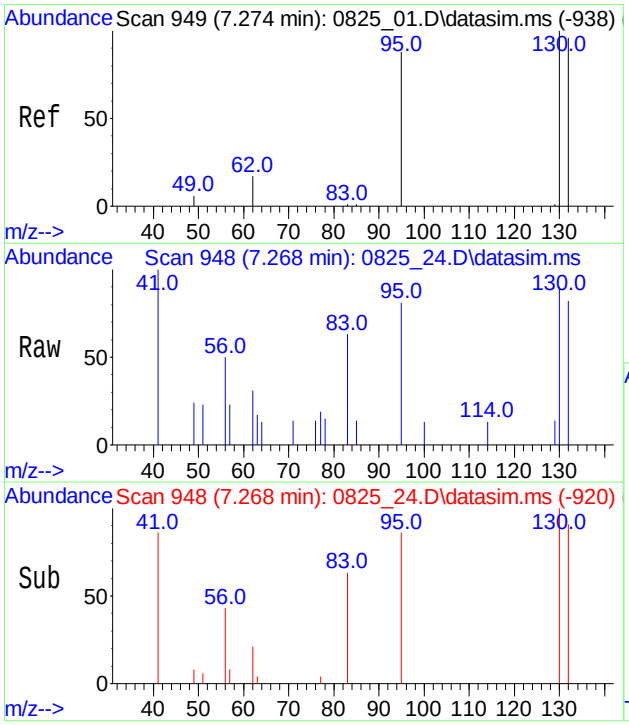


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.080 ppbv
RT: 5.766 min Scan# 732
Delta R.T. 0.002 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:117 Resp: 2342

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.7	115.1
121	33.0	25.4	38.0

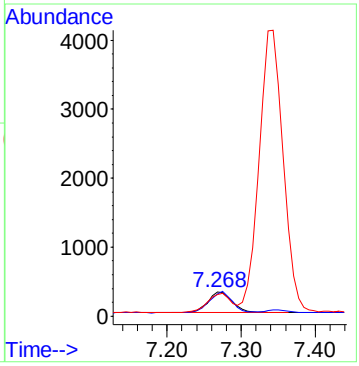


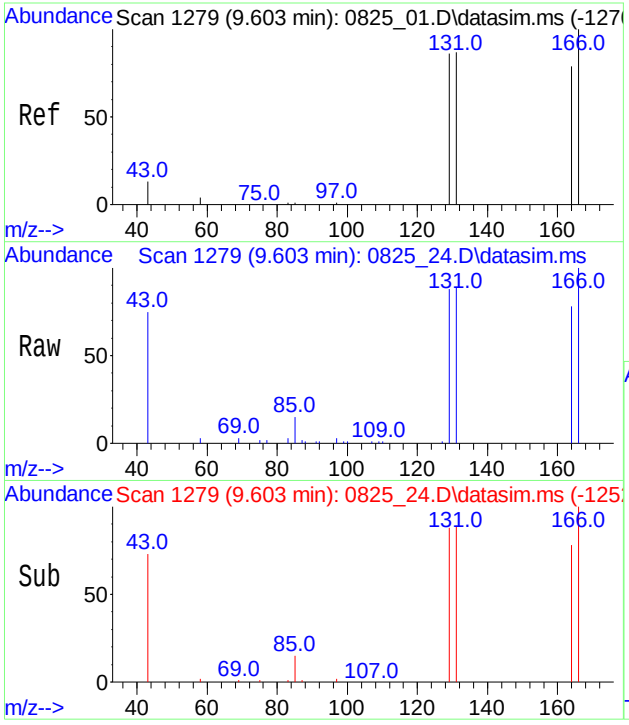


#44
Trichloroethene(sim)
Conc: 8$ 0.055 ppbv
RT: 7.268 min Scan# 948
Delta R.T. -0.009 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:130 Resp: 683

Ion	Ratio	Lower	Upper
130	100		
132	97.8	77.1	115.7
95	89.9	71.7	107.5

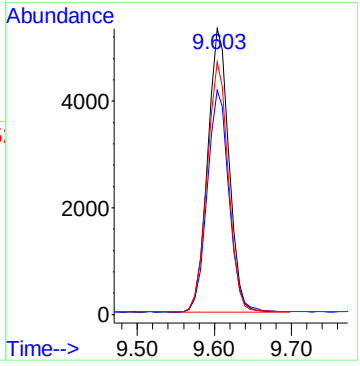


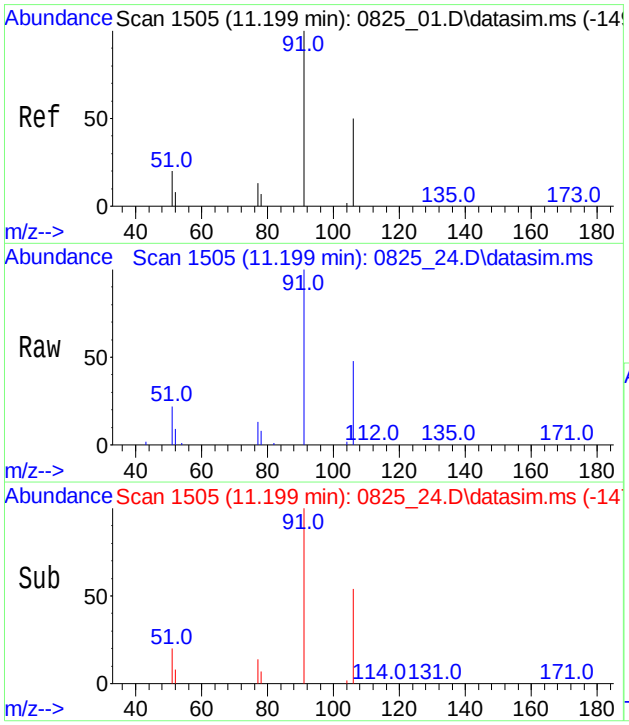


#46
Tetrachloroethene(sim)
Conc: 8$ 0.767 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion:166 Resp: 10184

Ion	Ratio	Lower	Upper
166	100		
164	80.0	58.0	98.0
129	87.9	67.3	107.3

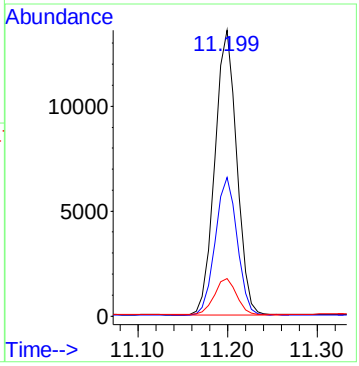




#48
m,p-Xylene(sim)
Conc: 8$ 0.934 ppbv
RT: 11.199 min Scan# 1505
Delta R.T. -0.002 min
Lab File: 0825_24.D
Acq: 25 Aug 2020 9:14 pm

Tgt Ion: 91 Resp: 23063

Ion	Ratio	Lower	Upper
91	100		
106	48.4	44.2	54.0
77	12.8	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-1 (NW AREA 310)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61554

Canister: 23340 Lab File ID: 0825_25.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.304		0.200	0.200	r
67-64-1	Acetone	6.22	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	5.01		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.194		0.050	0.050	r
108-88-3	Toluene	0.532		0.200	0.200	r
127-18-4	Tetrachloroethene	0.361		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.074		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
179601-23-1	m,p-Xylene(sim)	0.391		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_25.D
Acq On : 25 Aug 2020 9:59 pm
Operator : Keith
Client ID : IA-1 (NW AREA 310)
Lab ID : CG61554
ALS Vial : 194 Sample Multiplier: 1

Quant Time: Oct 13 15:43:46 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

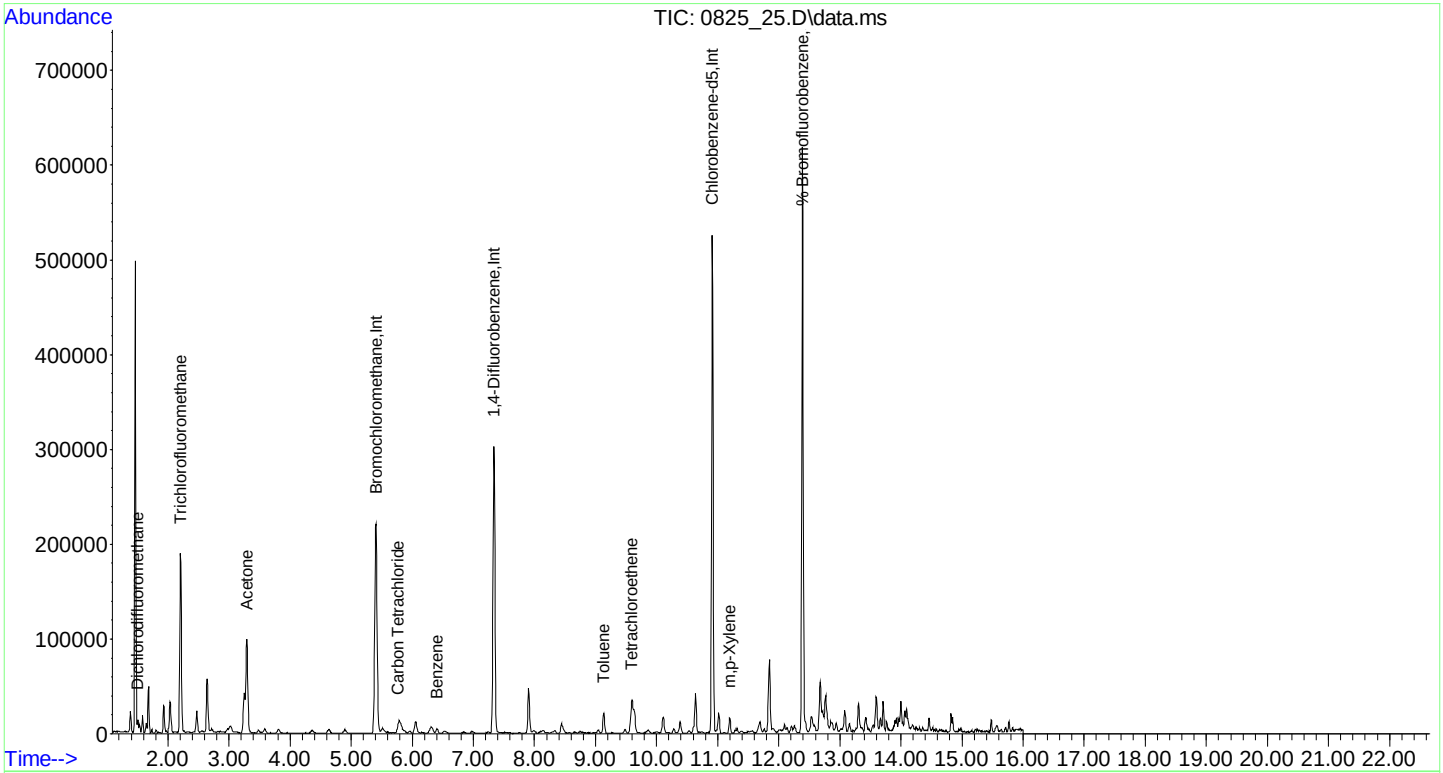
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	85547	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	254569	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	116012	10.000	ng		0.00
30) Bromochloromethane(sim)	5.403	130	94298	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	254569	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	116012	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	181890	10.054	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.506	85	4695	0.304	ppbv		95
4) Acetone	3.292	43	156614	6.217	ppbv		92
5) Trichlorofluoromethane	2.204	101	129704	5.007	ppbv		100
13) Benzene	6.407	78	3164	0.194	ppbv	#	85
14) Carbon Tetrachloride	5.768	117	1959	0.078	ppbv		91
18) Toluene	9.136	91	12713	0.532	ppbv		98
19) Tetrachloroethene	9.598	166	5349	0.361	ppbv		97
23) m,p-Xylene	11.194	91	8761	0.344	ppbv		100
34) Carbon Tetrachloride(sim)	5.756	117	2186	0.074	ppbv		99
46) Tetrachloroethene(sim)	9.601	166	5956	0.445	ppbv		99
48) m,p-Xylene(sim)	11.197	91	9759	0.391	ppbv		99

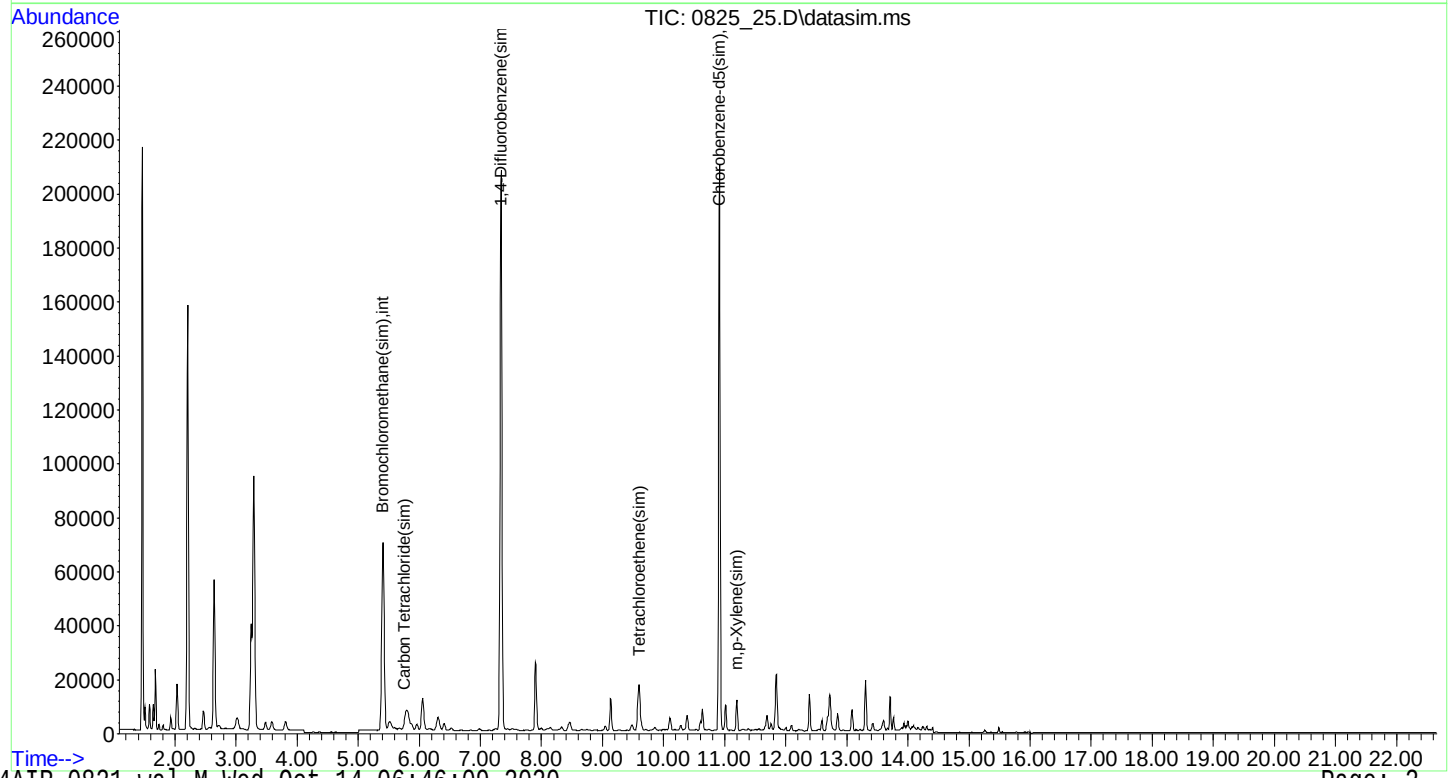
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

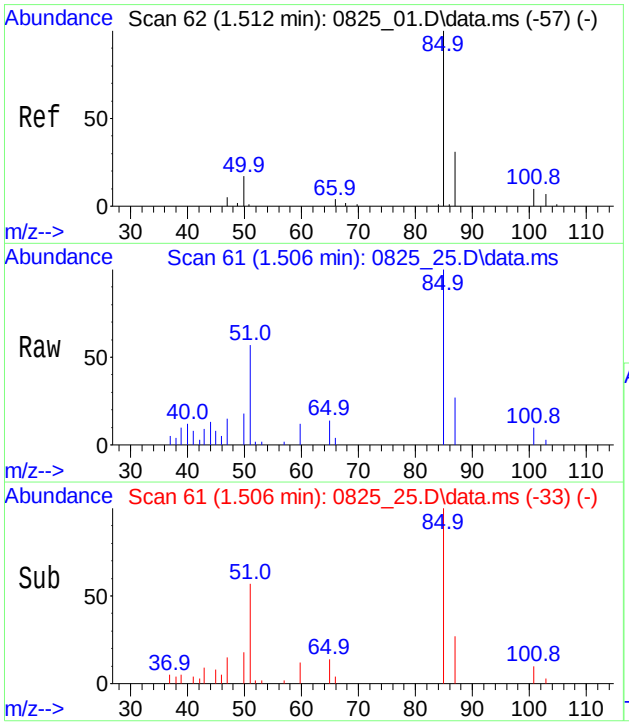
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_25.D
Acq On : 25 Aug 2020 9:59 pm
Operator : Keith
Client ID : IA-1 (NW AREA 310)
Lab ID : CG61554
ALS Vial : 194 Sample Multiplier: 1

Quant Time: Oct 13 15:43:46 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



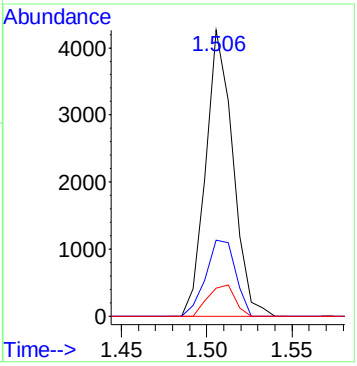


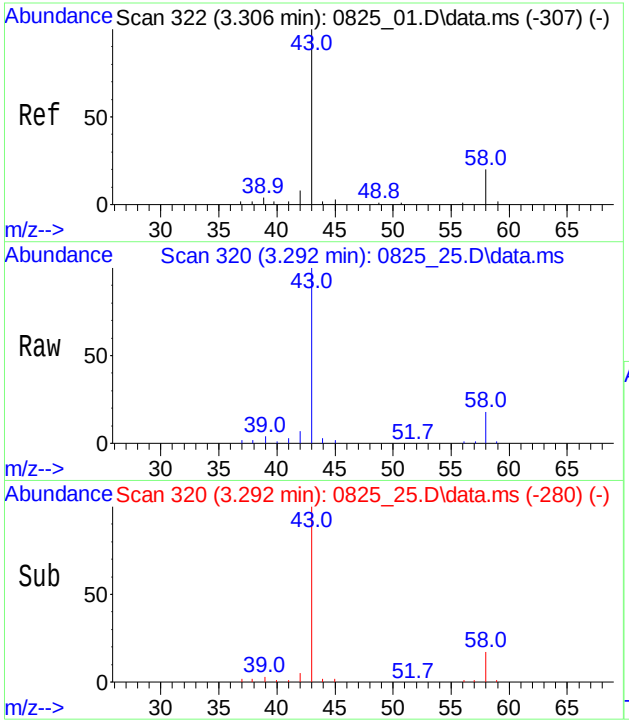


#2
Dichlorodifluoromethane
Conc: 8$ 0.304 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion: 85 Resp: 4695

Ion	Ratio	Lower	Upper
85	100		
87	29.1	26.1	39.1
101	10.9	8.4	12.6

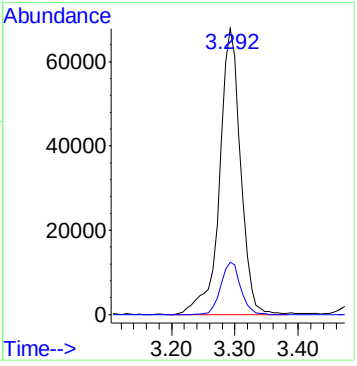


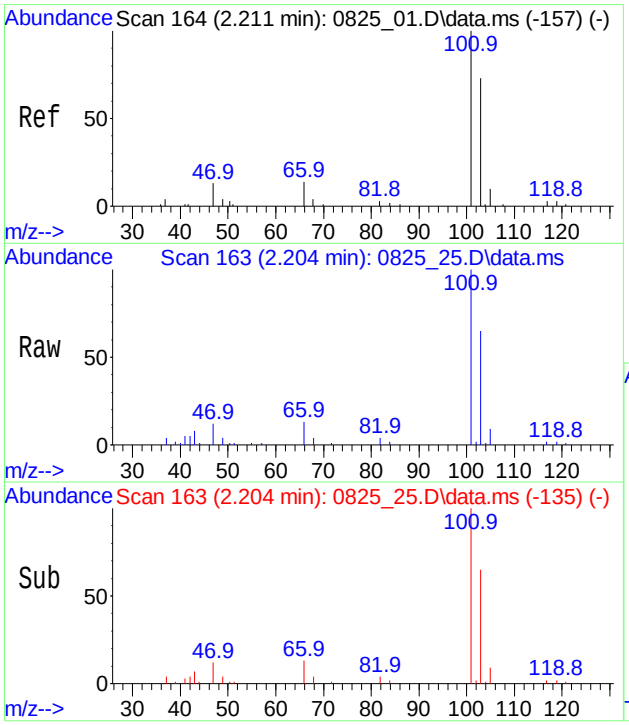


#4
Acetone
Conc: 8$ 6.217 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion: 43 Resp: 156614

Ion	Ratio	Lower	Upper
43	100		
58	17.2	16.7	25.1

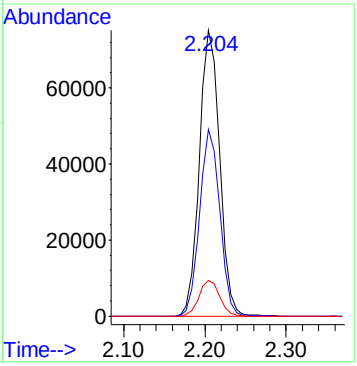


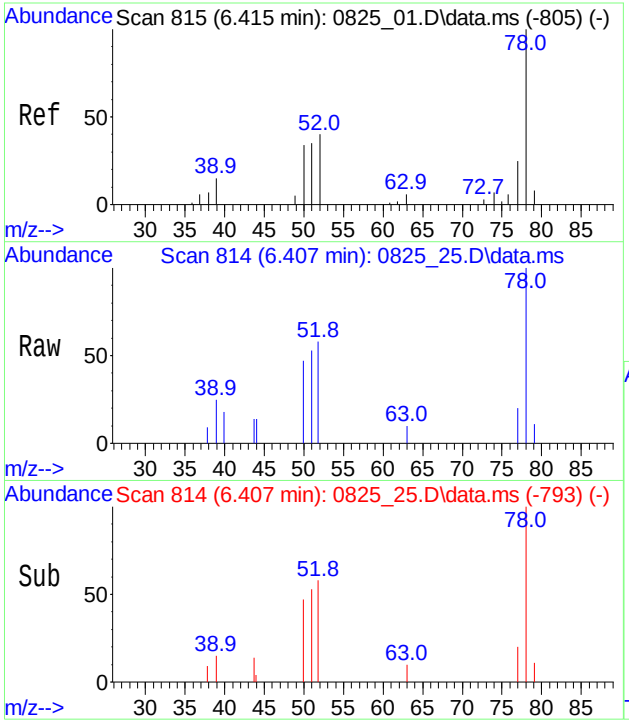


#5
Trichlorofluoromethane
Conc: 8$ 5.007 ppbv
RT: 2.204 min Scan# 163
Delta R.T. -0.007 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion:101 Resp: 129704

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.1	78.1
66	12.6	9.8	14.6

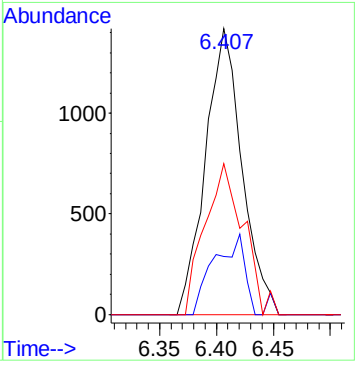


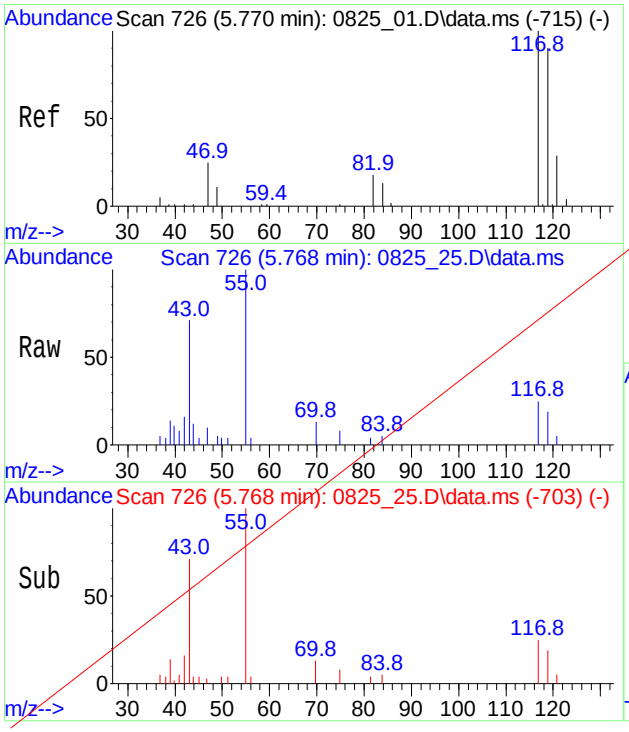


#13
Benzene
Conc: 8$ 0.194 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion: 78 Resp: 3164

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6
51	56.1	33.0	49.6#

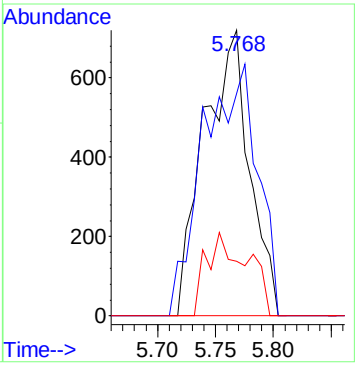


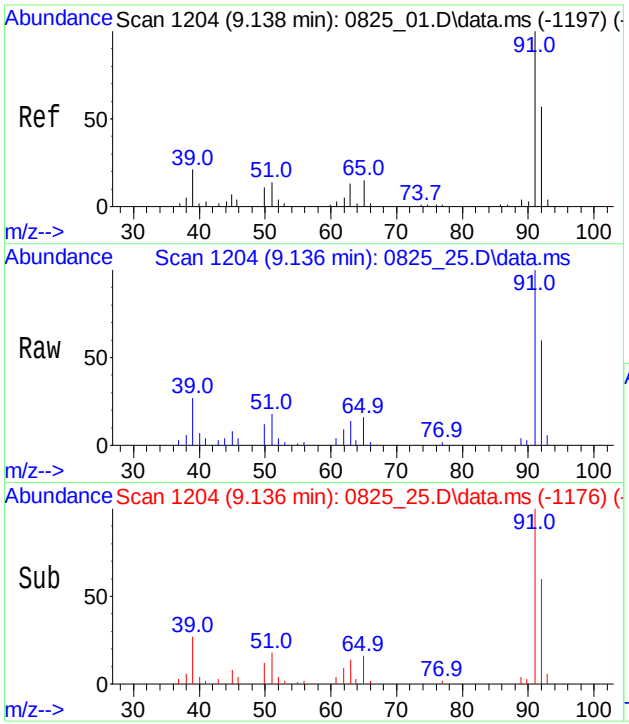


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.768 min Scan# 726
Delta R.T. 0.014 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion:117 Resp: 1959

Ion	Ratio	Lower	Upper
117	100		
119	105.0	76.4	116.4
121	26.1	11.9	51.9

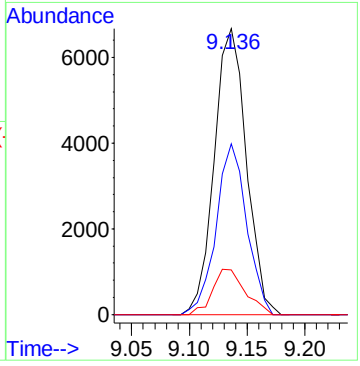


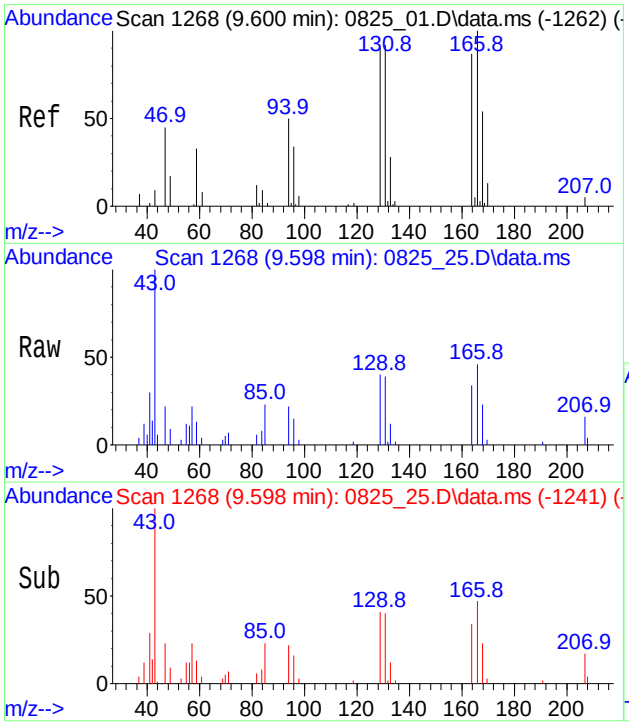


#18
Toluene
Conc: 8$ 0.532 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. -0.000 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion: 91 Resp: 12713

Ion	Ratio	Lower	Upper
91	100		
92	56.7	46.2	69.2
65	16.0	11.0	16.6

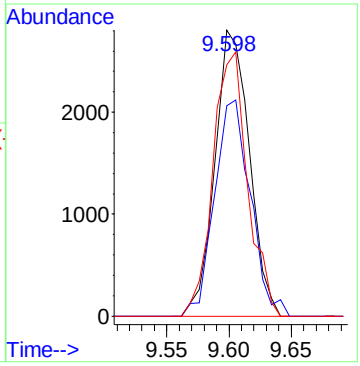


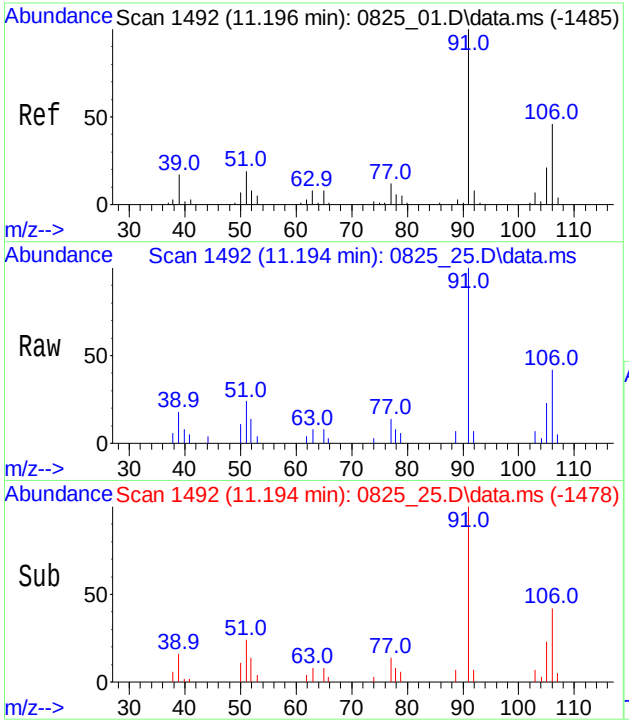


#19
Tetrachloroethene
Conc: 8$ 0.361 ppbv
RT: 9.598 min Scan# 1268
Delta R.T. -0.007 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion:166 Resp: 5349

Ion	Ratio	Lower	Upper
166	100		
164	78.6	62.4	93.6
129	92.6	69.8	104.8

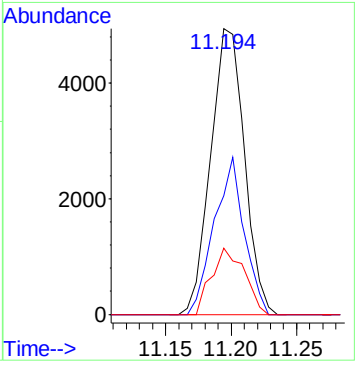


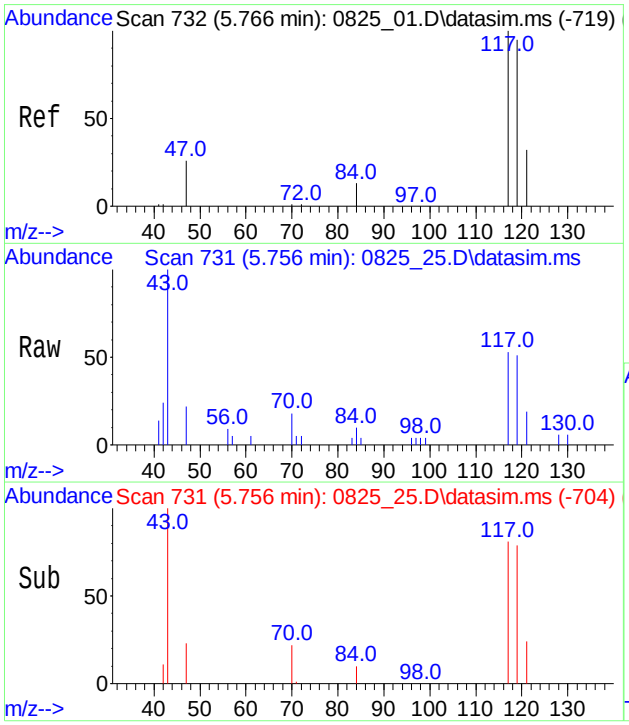


#23
m,p-Xylene
Conc: 8$ 0.344 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion: 91 Resp: 8761

Ion	Ratio	Lower	Upper
91	100		
106	49.0	39.3	58.9
105	22.7	17.8	26.6

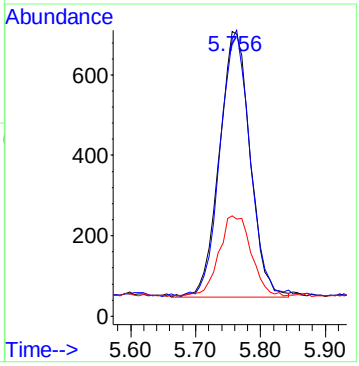


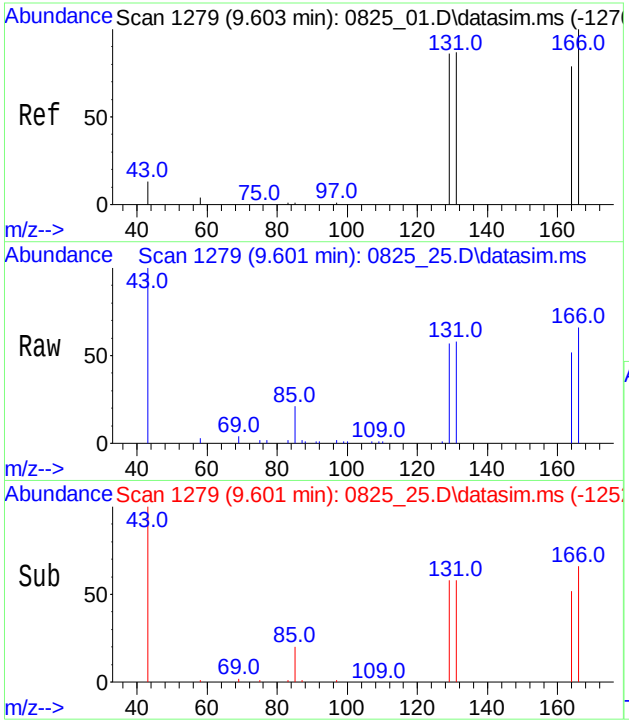


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.074 ppbv
RT: 5.756 min Scan# 731
Delta R.T. -0.008 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion:117 Resp: 2186

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.7	115.1
121	32.2	25.4	38.0

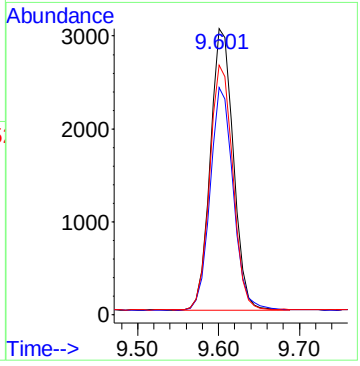


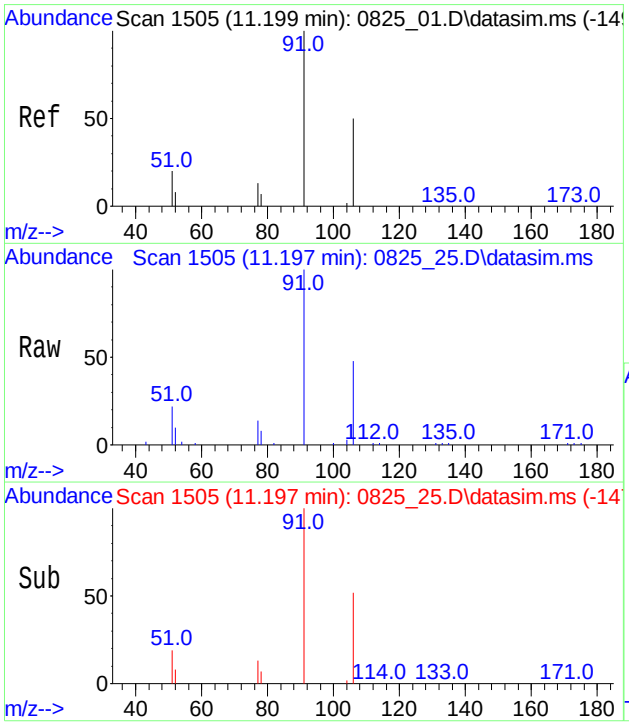


#46
Tetrachloroethene(sim)
Conc: 8$ 0.445 ppbv
RT: 9.601 min Scan# 1279
Delta R.T. -0.004 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion:166 Resp: 5956

Ion	Ratio	Lower	Upper
166	100		
164	79.4	58.0	98.0
129	87.0	67.3	107.3

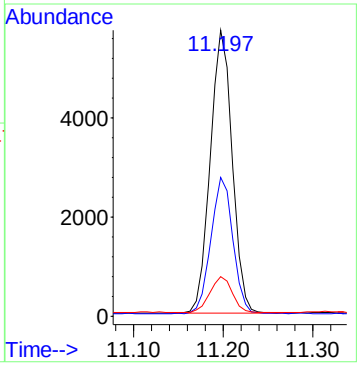




#48
m,p-Xylene(sim)
Conc: 8$ 0.391 ppbv
RT: 11.197 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 0825_25.D
Acq: 25 Aug 2020 9:59 pm

Tgt Ion: 91 Resp: 9759

Ion	Ratio	Lower	Upper
91	100		
106	48.2	44.2	54.0
77	13.0	10.2	15.2



1

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-8 (COLUMN G19)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61555

Canister: 28558 Lab File ID: 0825_26.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.449		0.200	0.200	r
67-64-1	Acetone	8.11	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	12.4		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.305		0.050	0.050	r
108-88-3	Toluene	0.332		0.200	0.200	r
127-18-4	Tetrachloroethene	0.381		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene	0.609		0.150	0.150	r
95-47-6	o-Xylene	0.350		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.073		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.039		0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_26.D
Acq On : 25 Aug 2020 10:44 pm
Operator : Keith
Client ID : IA-8 (COLUMN G19)
Lab ID : CG61555
ALS Vial : 195 Sample Multiplier: 1

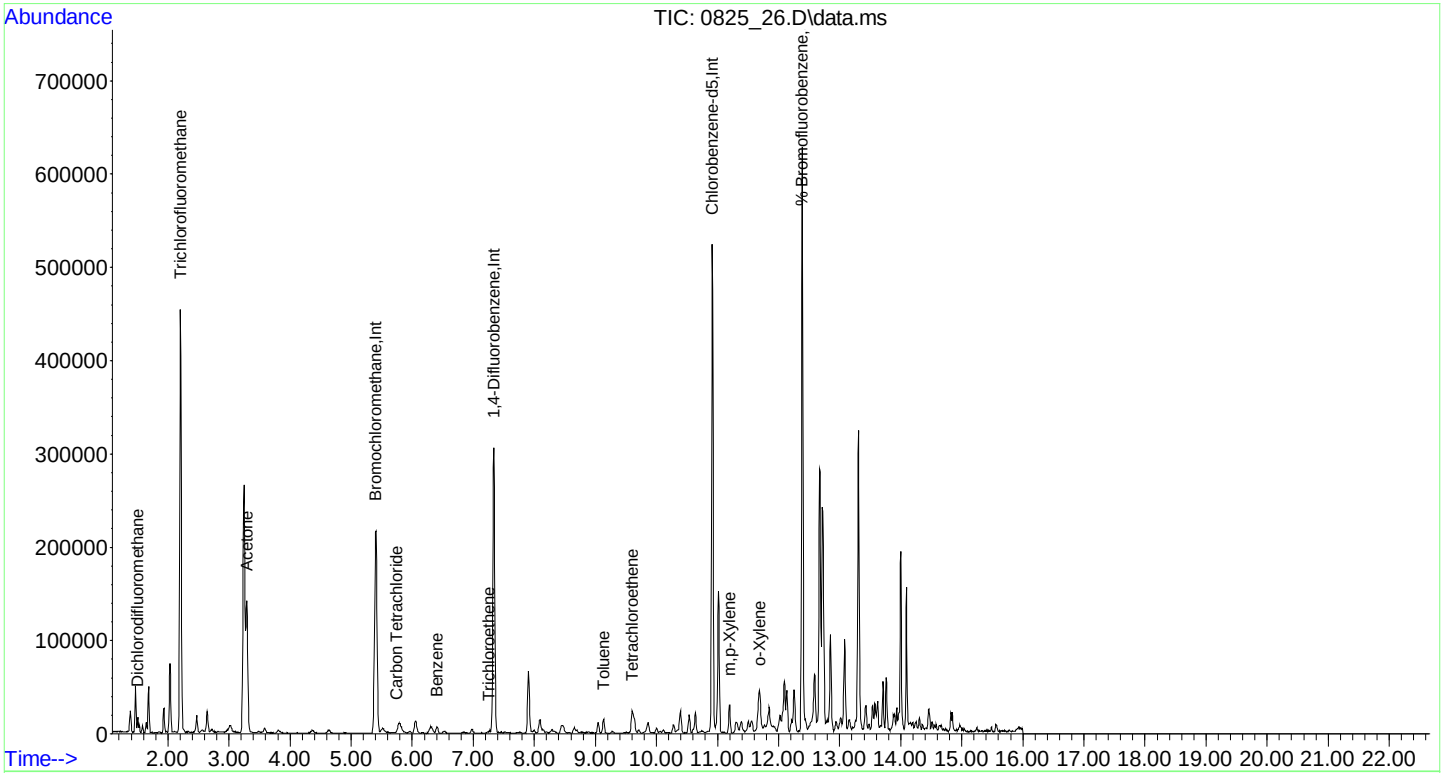
Quant Time: Oct 13 15:43:50 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

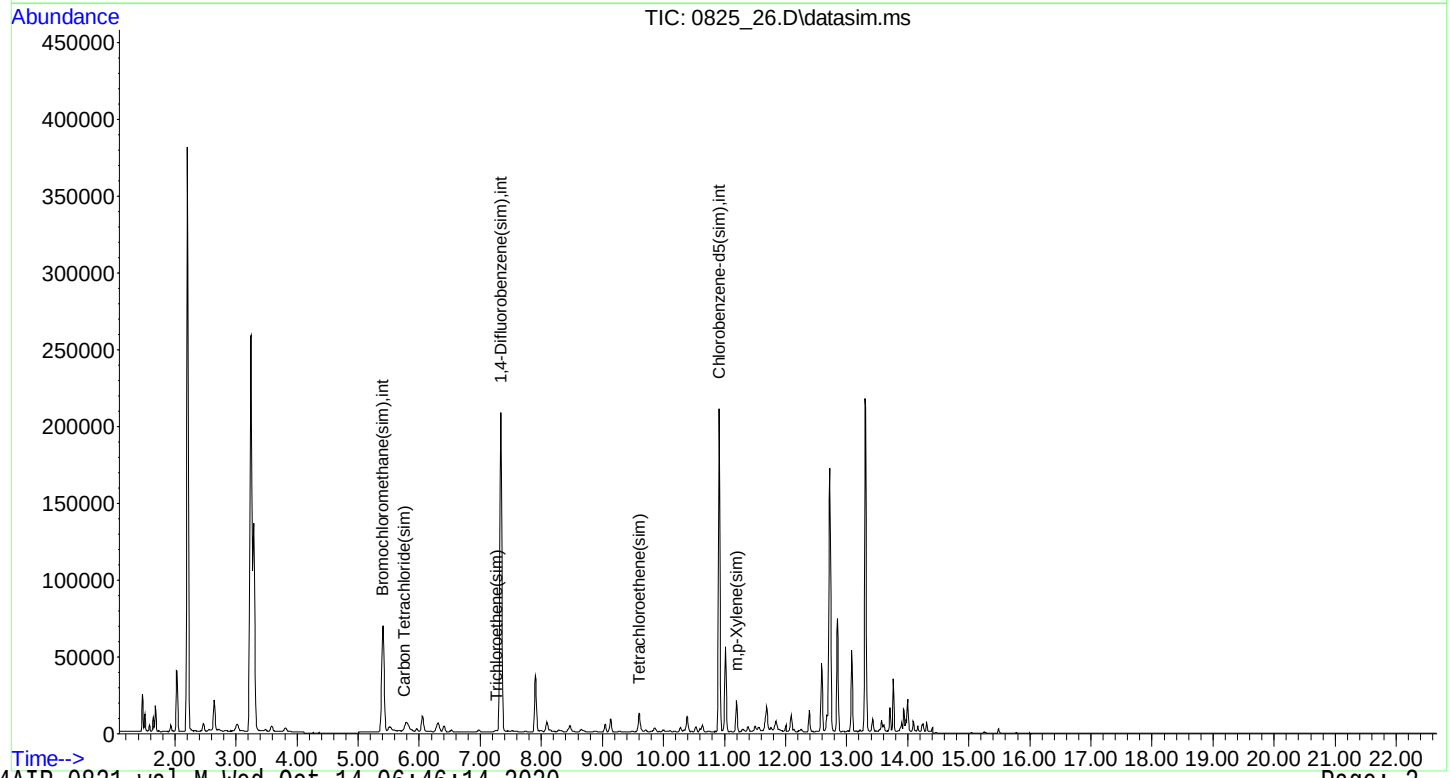
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	85248	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	256182	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	116138	10.000	ng		0.00
30) Bromochloromethane(sim)	5.403	130	93668	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	256182	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	116138	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	181971	10.047	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.506	85	6910	0.449	ppbv		98
4) Acetone	3.292	43	203567	8.109	ppbv		97
5) Trichlorofluoromethane	2.204	101	319275	12.368	ppbv		100
13) Benzene	6.407	78	4970	0.305	ppbv		96
14) Carbon Tetrachloride	5.754	117	2255	0.091	ppbv		86
17) Trichloroethene	7.263	130	512	0.040	ppbv#		32
18) Toluene	9.136	91	7979	0.332	ppbv		96
19) Tetrachloroethene	9.605	166	5686	0.381	ppbv		98
23) m,p-Xylene	11.201	91	15521	0.609	ppbv		99
24) o-Xylene	11.695	91	9681	0.350	ppbv		97
34] Carbon Tetrachloride(sim)	5.756	117	2138	0.073	ppbv		98
44] Trichloroethene(sim)	7.272	130	489	0.039	ppbv		99
46] Tetrachloroethene(sim)	9.608	166	6216	0.461	ppbv		99
48] m,p-Xylene(sim)	11.197	91	17010	0.680	ppbv		99

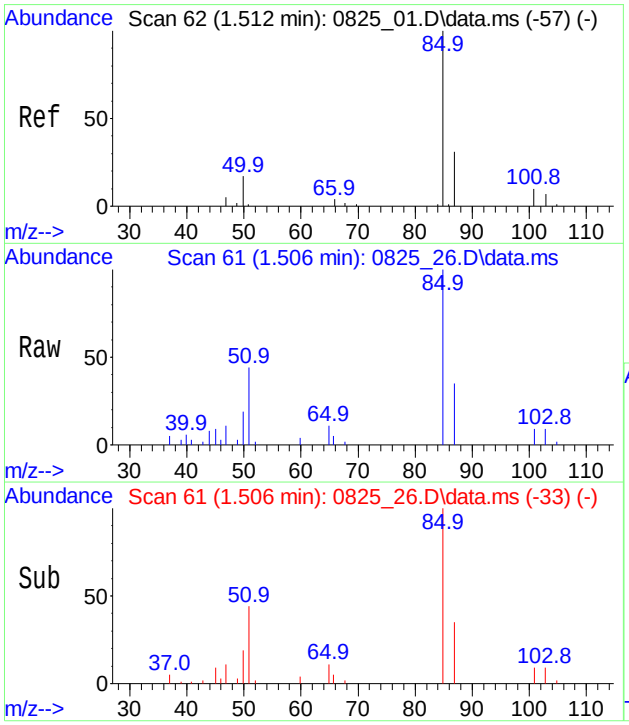
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_26.D
Acq On : 25 Aug 2020 10:44 pm
Operator : Keith
Client ID : IA-8 (COLUMN G19)
Lab ID : CG61555
ALS Vial : 195 Sample Multiplier: 1

Quant Time: Oct 13 15:43:50 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



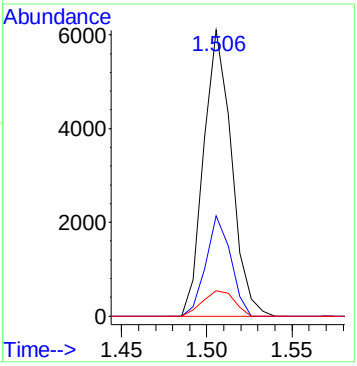


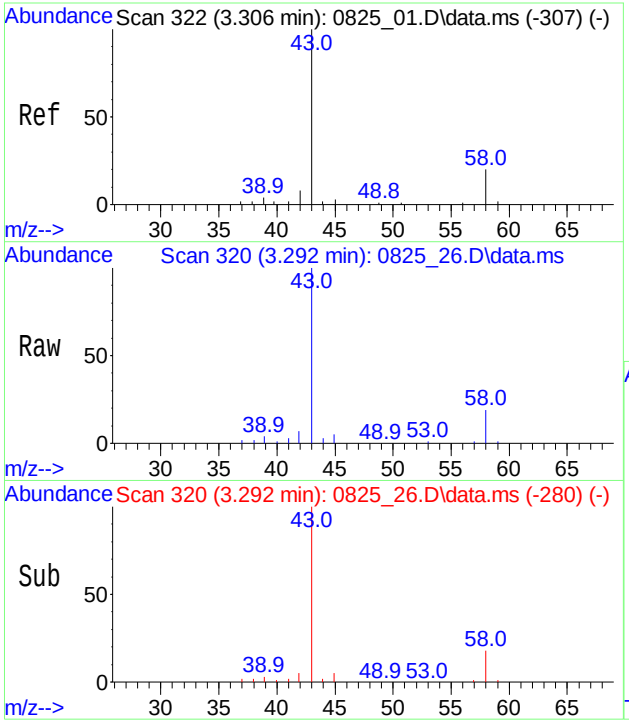


#2
Dichlorodifluoromethane
Conc: 8$ 0.449 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 85 Resp: 6910

Ion	Ratio	Lower	Upper
85	100		
87	31.3	26.1	39.1
101	10.1	8.4	12.6

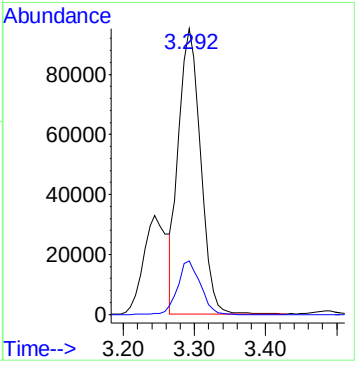


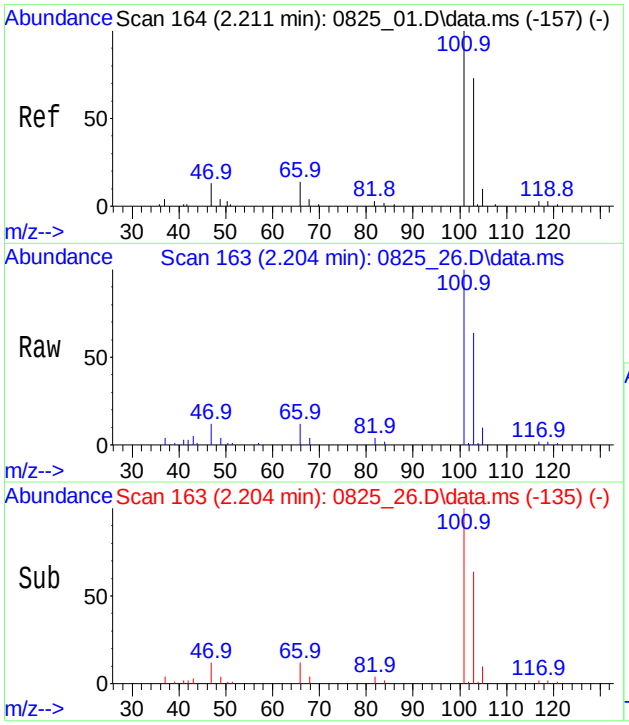


#4
Acetone
Conc: 8$ 8.109 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 43 Resp: 203567

Ion	Ratio	Lower	Upper
43	100		
58	19.4	16.7	25.1

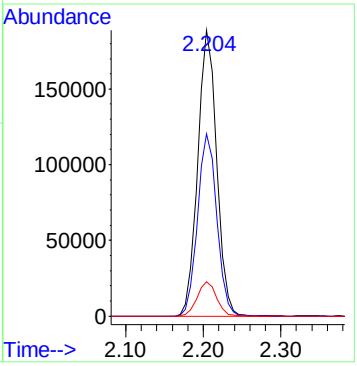


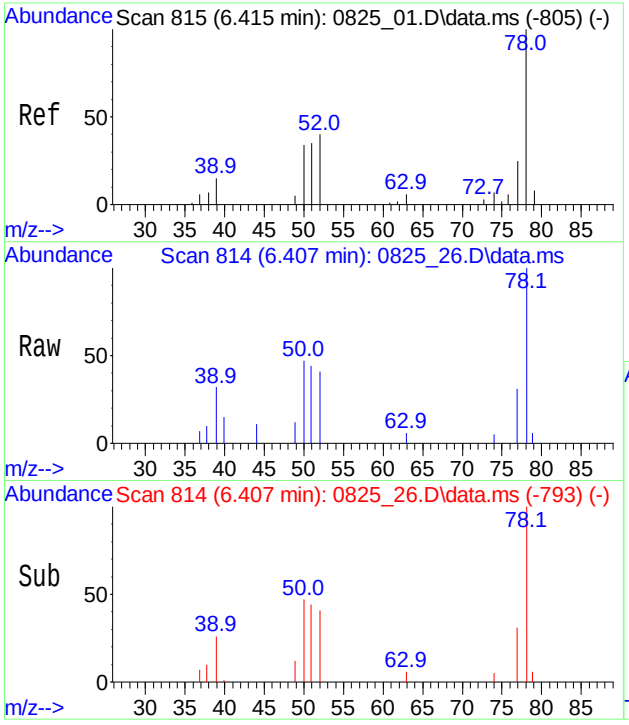


#5
Trichlorofluoromethane
Conc: 8$ 12.368 ppbv
RT: 2.204 min Scan# 163
Delta R.T. -0.007 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:101 Resp: 319275

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.1	78.1
66	12.3	9.8	14.6

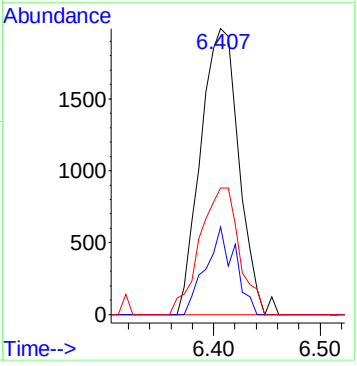


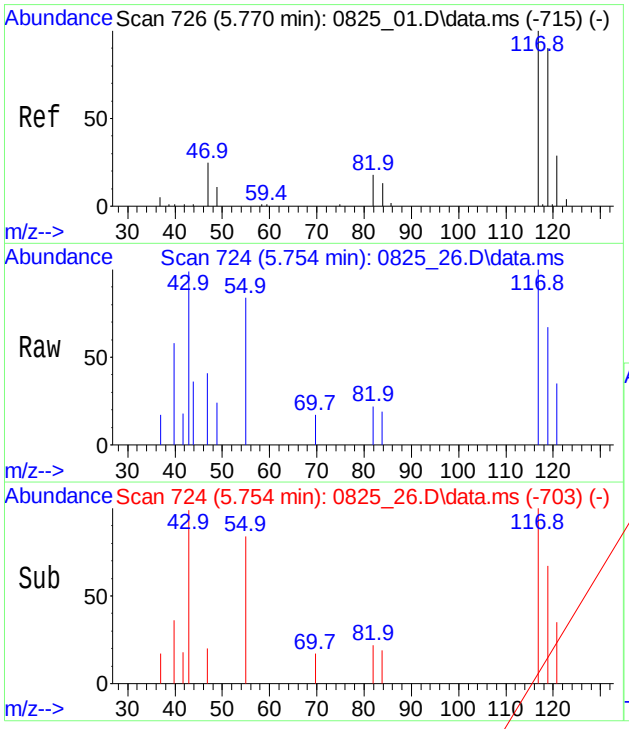


#13
Benzene
Conc: 8$ 0.305 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 78 Resp: 4970

Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6
51	45.5	33.0	49.6

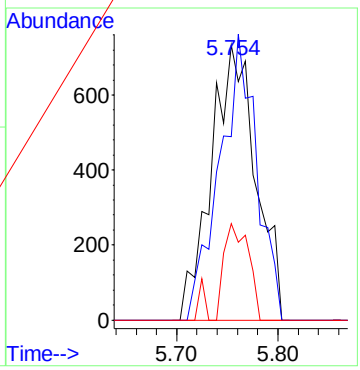


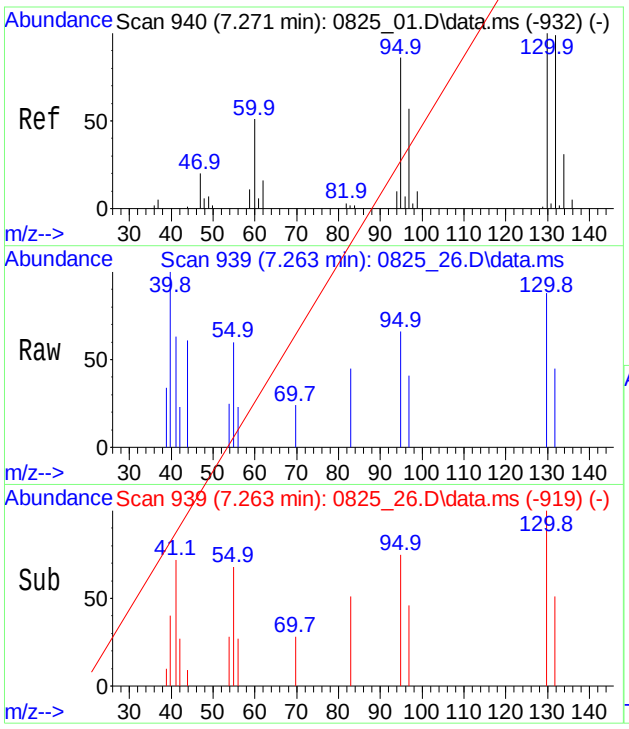


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.754 min Scan# 724
Delta R.T. -0.000 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:117 Resp: 2255

Ion	Ratio	Lower	Upper
117	100		
119	85.7	76.4	116.4
121	19.2	11.9	51.9

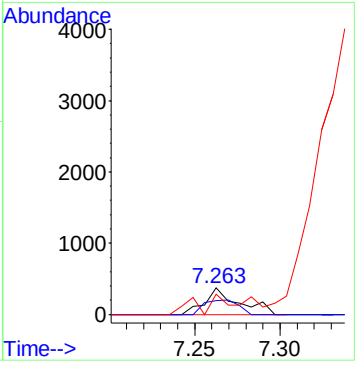


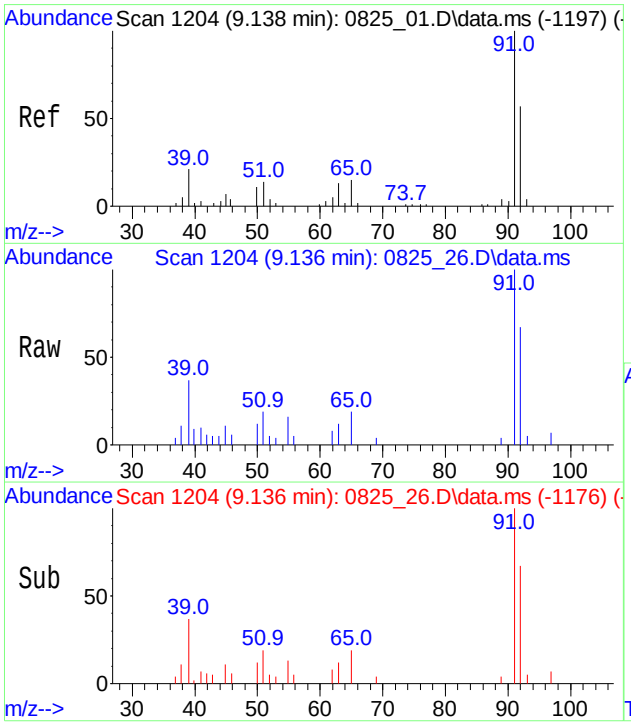


#17
Trichloroethene
Conc: 8$ Below Cal
RT: 7.263 min Scan# 939
Delta R.T. -0.014 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:130 Resp: 512

Ion	Ratio	Lower	Upper
130	100		
132	55.3	77.1	115.7#
95	0.0	71.7	107.5#

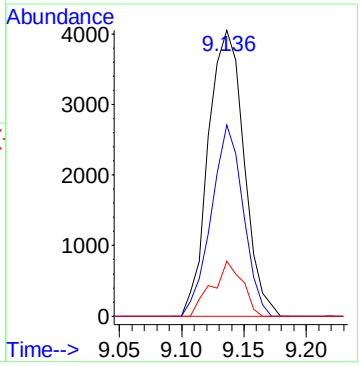


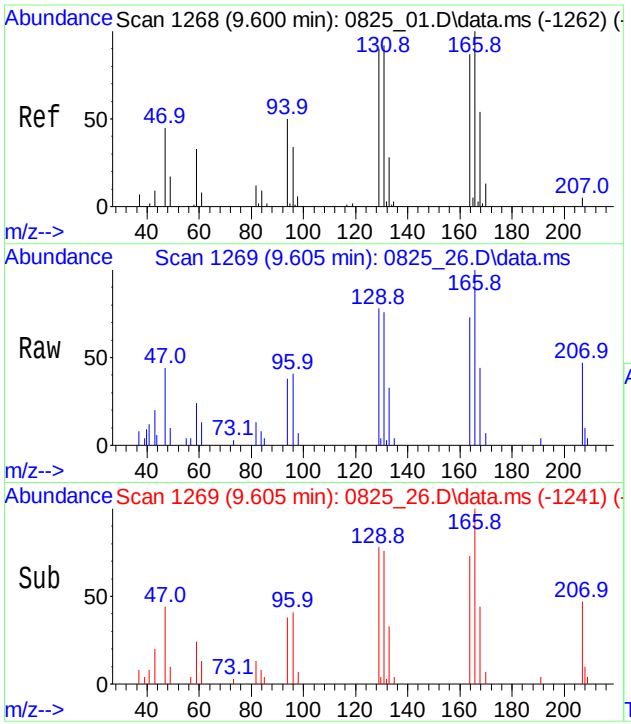


#18
Toluene
Conc: 8$ 0.332 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. -0.000 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 91 Resp: 7979

Ion	Ratio	Lower	Upper
91	100		
92	59.8	46.2	69.2
65	16.3	11.0	16.6

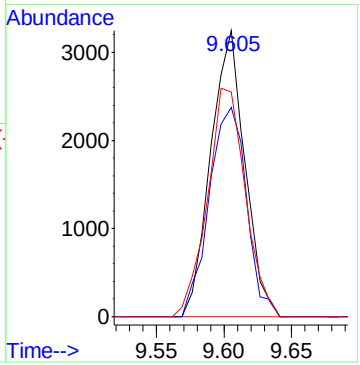


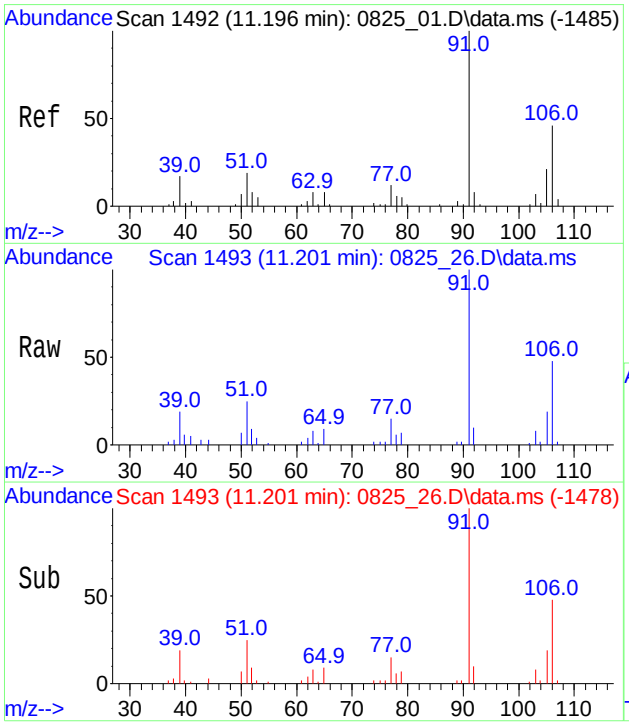


#19
Tetrachloroethene
Conc: 8$ 0.381 ppbv
RT: 9.605 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:166 Resp: 5686

Ion	Ratio	Lower	Upper
166	100		
164	80.2	62.4	93.6
129	88.7	69.8	104.8

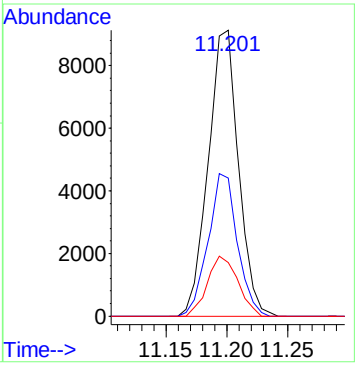


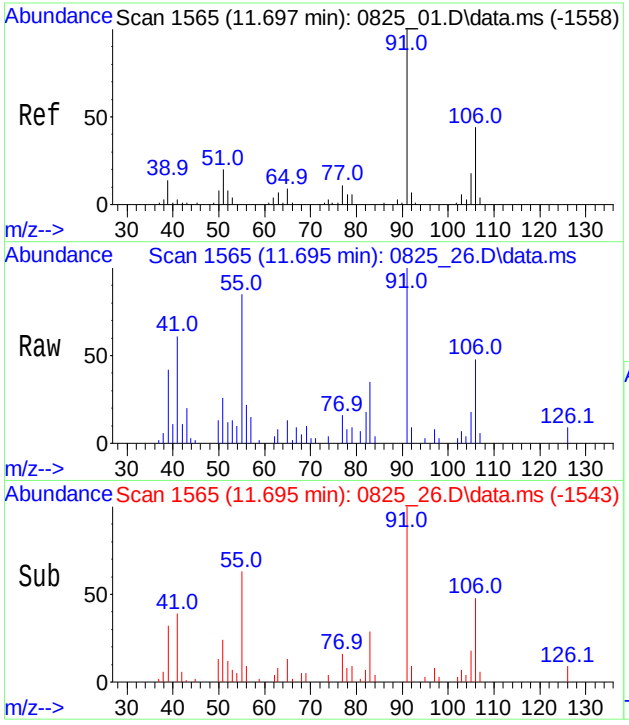


#23
m,p-Xylene
Conc: 8$ 0.609 ppbv
RT: 11.201 min Scan# 1493
Delta R.T. -0.000 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 91 Resp: 15521

Ion	Ratio	Lower	Upper
91	100		
106	48.3	39.3	58.9
105	21.2	17.8	26.6

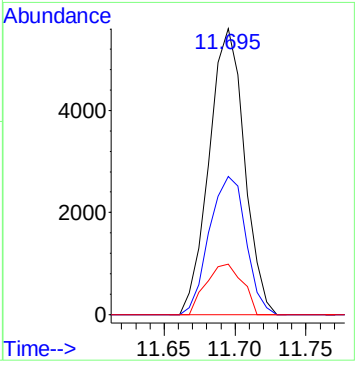


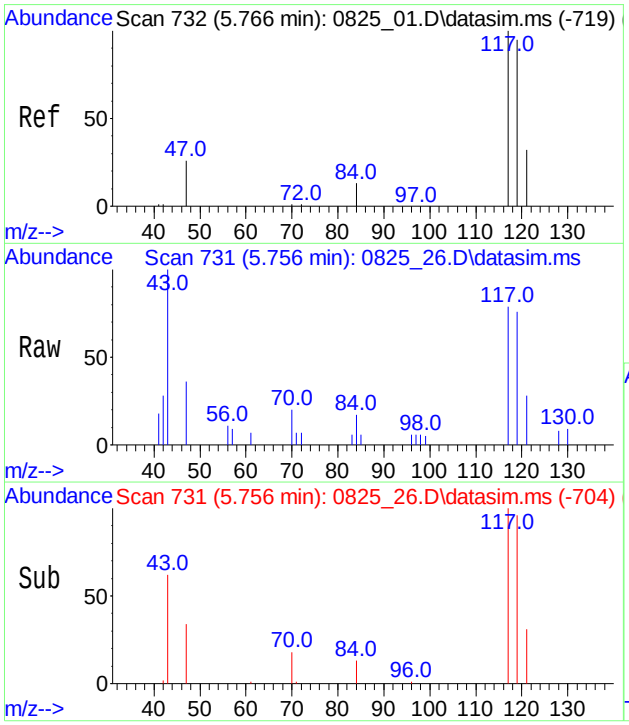


#24
o-Xylene
Conc: 8$ 0.350 ppbv
RT: 11.695 min Scan# 1565
Delta R.T. -0.000 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 91 Resp: 9681

Ion	Ratio	Lower	Upper
91	100		
106	50.0	38.0	57.0
105	18.3	15.0	22.6

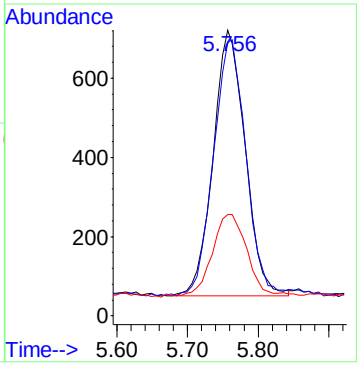


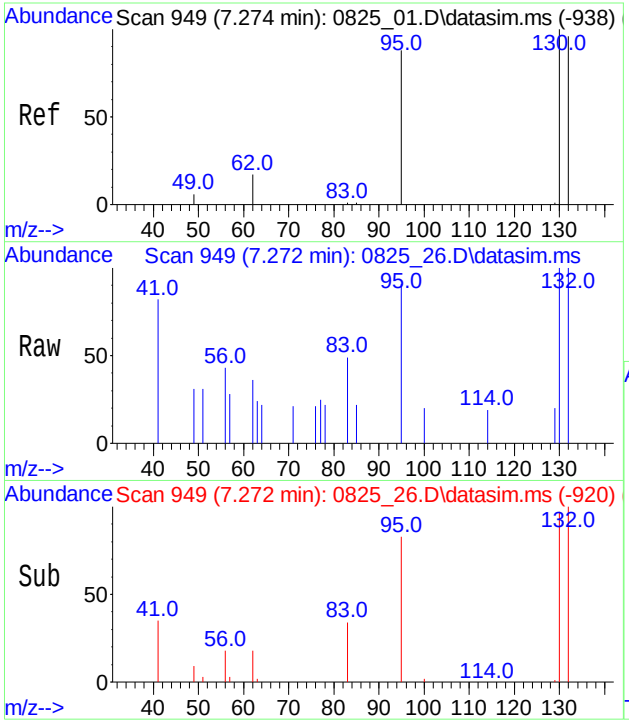


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.073 ppbv
RT: 5.756 min Scan# 731
Delta R.T. -0.008 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:117 Resp: 2138

Ion	Ratio	Lower	Upper
117	100		
119	97.3	76.7	115.1
121	33.6	25.4	38.0

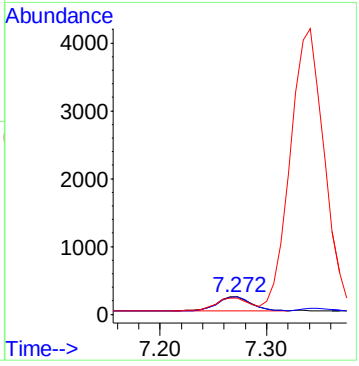


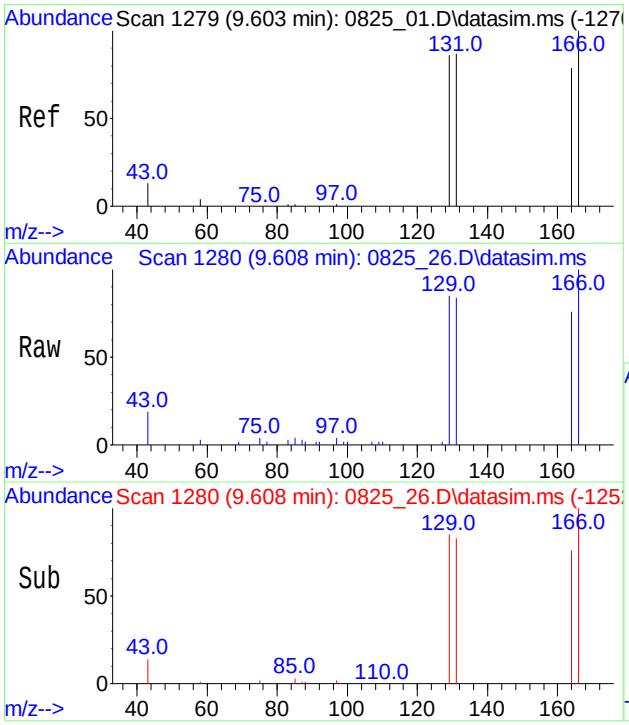


#44
Trichloroethene(sim)
Conc: 8$ 0.039 ppbv
RT: 7.272 min Scan# 949
Delta R.T. -0.005 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:130 Resp: 489

Ion	Ratio	Lower	Upper
130	100		
132	95.7	77.1	115.7
95	89.2	71.7	107.5

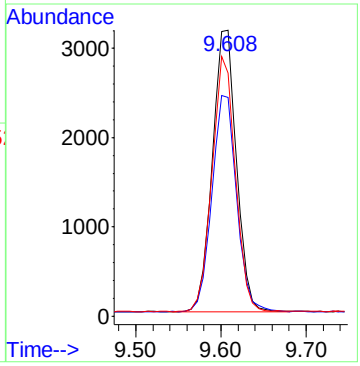


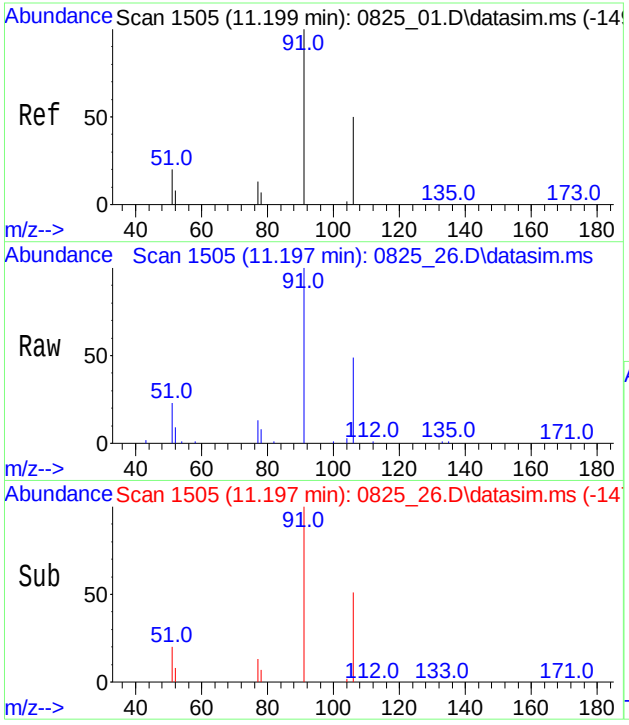


#46
Tetrachloroethene(sim)
Conc: 8$ 0.461 ppbv
RT: 9.608 min Scan# 1280
Delta R.T. 0.003 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion:166 Resp: 6216

Ion	Ratio	Lower	Upper
166	100		
164	78.7	58.0	98.0
129	87.9	67.3	107.3

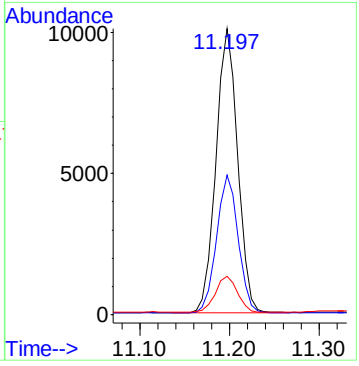




#48
m,p-Xylene(sim)
Conc: 8$ 0.680 ppbv
RT: 11.197 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 0825_26.D
Acq: 25 Aug 2020 10:44 pm

Tgt Ion: 91 Resp: 17010

Ion	Ratio	Lower	Upper
91	100		
106	48.3	44.2	54.0
77	13.0	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-11 (COLUMN AB7-320A)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61556

Canister: 28605 Lab File ID: 0825_27.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.393		0.200	0.200	r
67-64-1	Acetone	6.00	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.734		0.150	0.150	r
75-35-4	1,1-Dichloroethene	0.050	U	0.050	0.050	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.157		0.050	0.050	r
108-88-3	Toluene	0.325		0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.074		0.020	0.020	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.318		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_27.D
Acq On : 25 Aug 2020 11:29 pm
Operator : Keith
Client ID : IA-11 (COLUMN AB7-320A)
Lab ID : CG61556
ALS Vial : 196 Sample Multiplier: 1

Quant Time: Oct 13 15:47:07 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

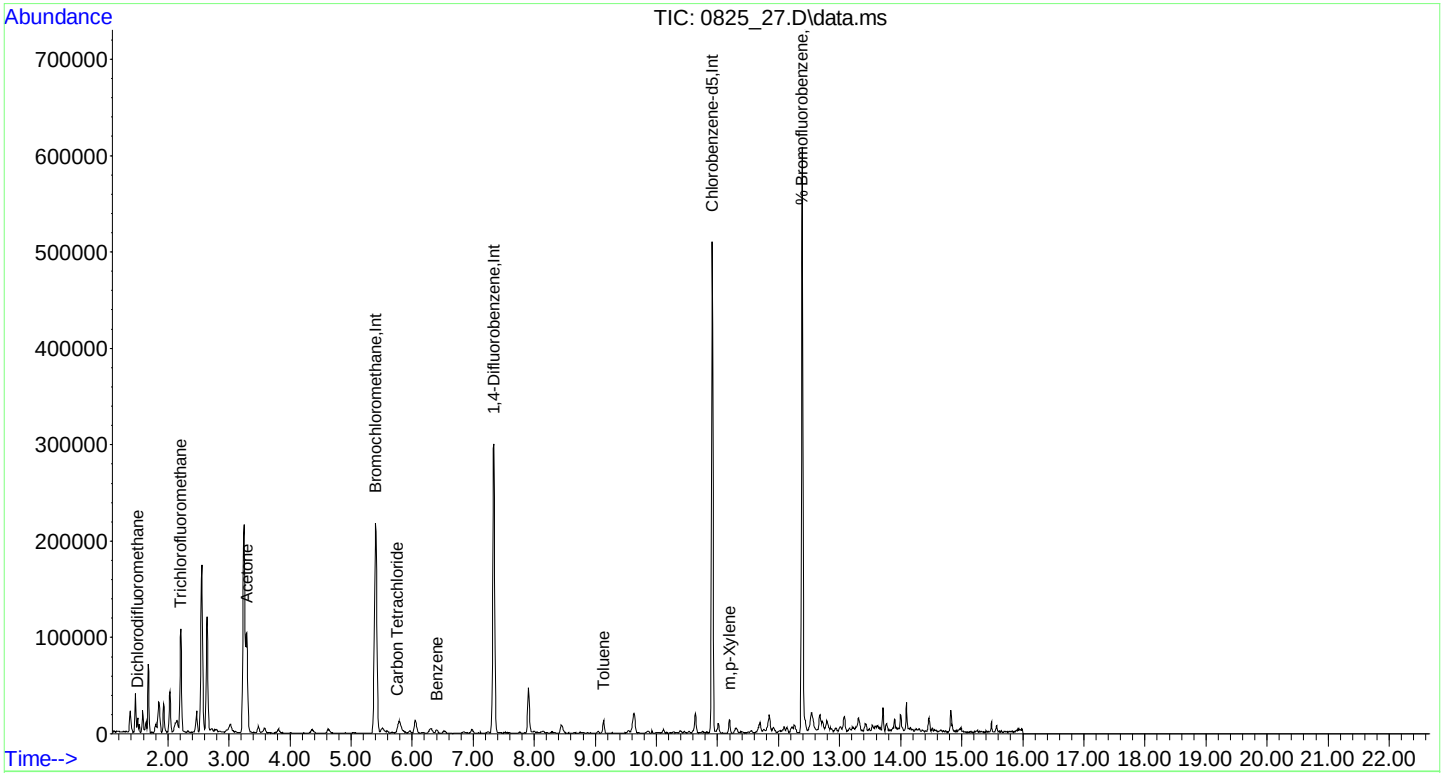
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.401	130	84853	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	254716	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	113856	10.000	ng		0.00
30) Bromochloromethane(sim)	5.403	130	93021	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	254716	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	113856	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	178712	10.065	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.506	85	6027	0.393	ppbv		98
4) Acetone	3.293	43	149979	6.002	ppbv		95
5) Trichlorofluoromethane	2.205	101	18864	0.734	ppbv		99
13) Benzene	6.407	78	2543	0.157	ppbv		92
14) Carbon Tetrachloride	5.761	117	1795	0.072	ppbv		88
18) Toluene	9.136	91	7763	0.325	ppbv		96
23) m,p-Xylene	11.194	91	7481	0.299	ppbv		96
34] Carbon Tetrachloride(sim)	5.757	117	2158	0.074	ppbv		96
35] 1,1-Dichloroethene(sim)	2.554	61	38251	2.082	ppbv	#	41
48] m,p-Xylene(sim)	11.197	91	7797	0.318	ppbv		100

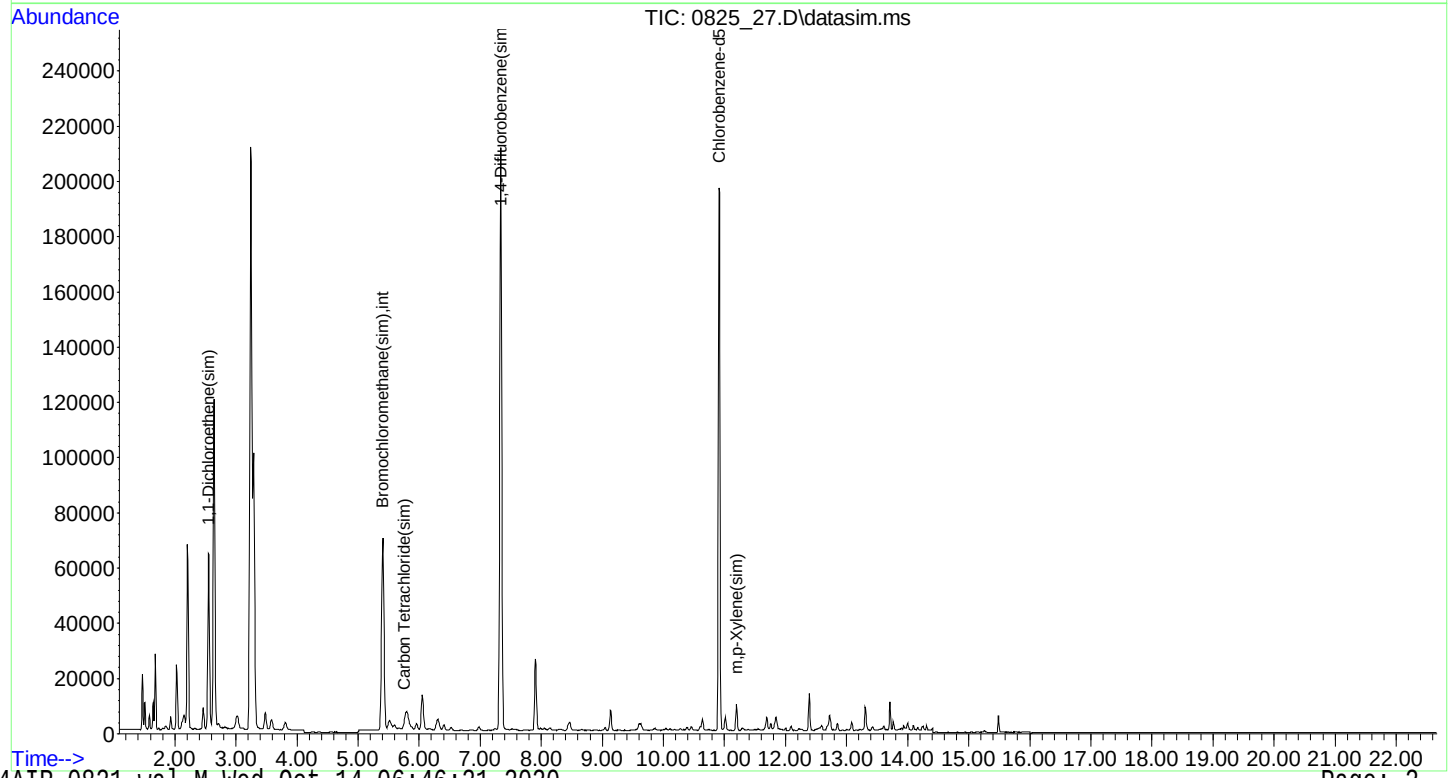
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

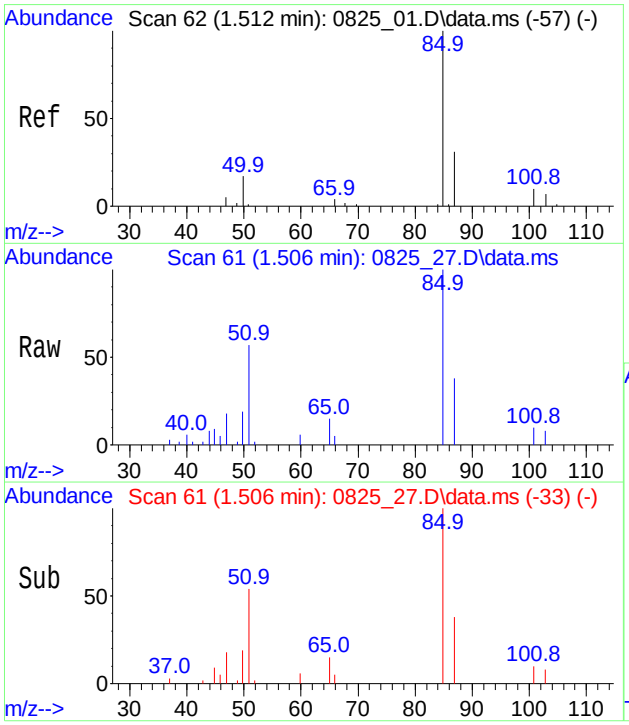
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_27.D
Acq On : 25 Aug 2020 11:29 pm
Operator : Keith
Client ID : IA-11 (COLUMN AB7-320A)
Lab ID : CG61556
ALS Vial : 196 Sample Multiplier: 1

Quant Time: Oct 13 15:47:07 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



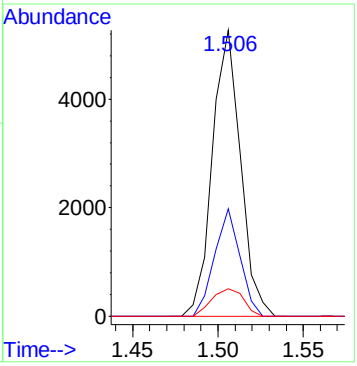


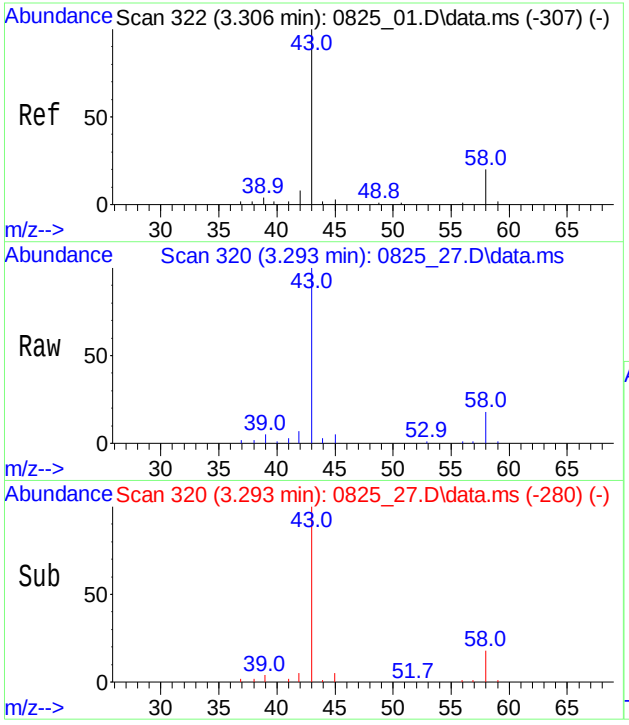


#2
Dichlorodifluoromethane
Conc: 8$ 0.393 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 85 Resp: 6027

Ion	Ratio	Lower	Upper
85	100		
87	34.0	26.1	39.1
101	10.8	8.4	12.6

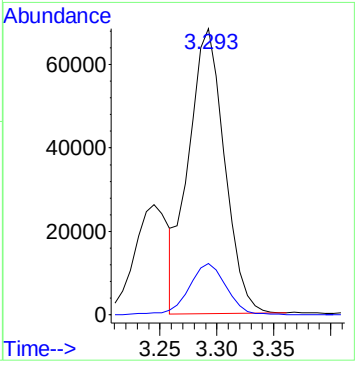


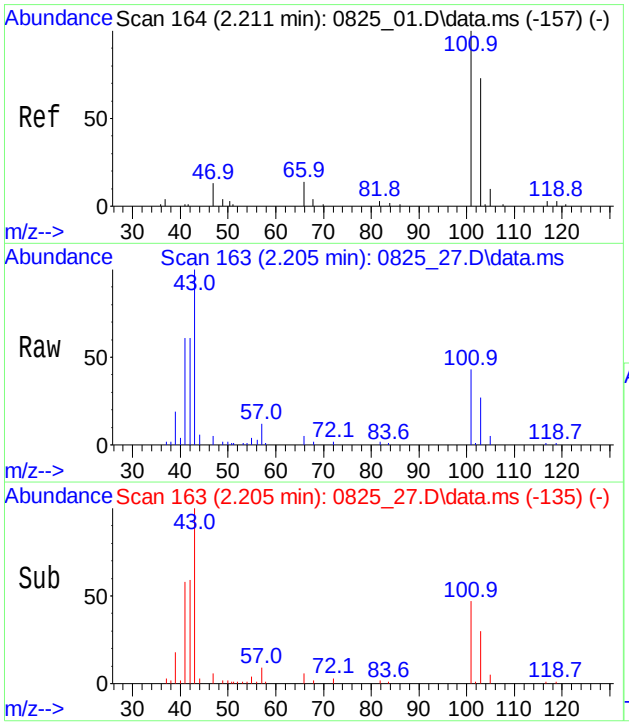


#4
Acetone
Conc: 8$ 6.002 ppbv
RT: 3.293 min Scan# 320
Delta R.T. -0.027 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 43 Resp: 149979

Ion	Ratio	Lower	Upper
43	100		
58	18.4	16.7	25.1

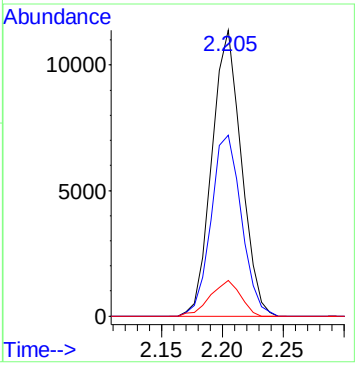


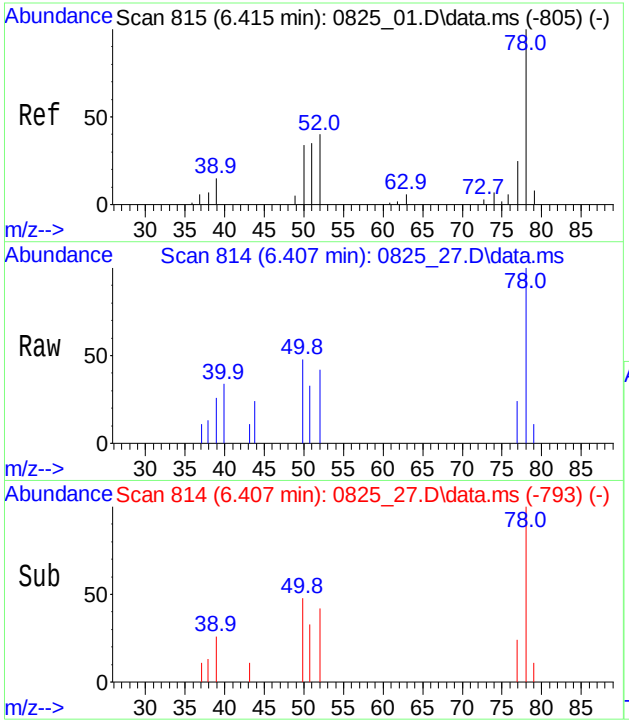


#5
Trichlorofluoromethane
Conc: 8$ 0.734 ppbv
RT: 2.205 min Scan# 163
Delta R.T. -0.006 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion:101 Resp: 18864

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.1	78.1
66	12.7	9.8	14.6

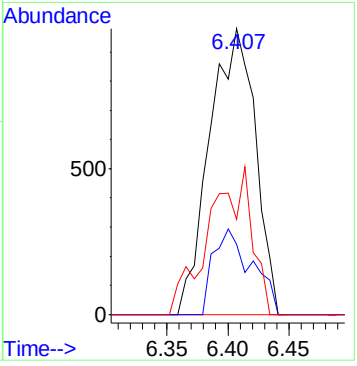


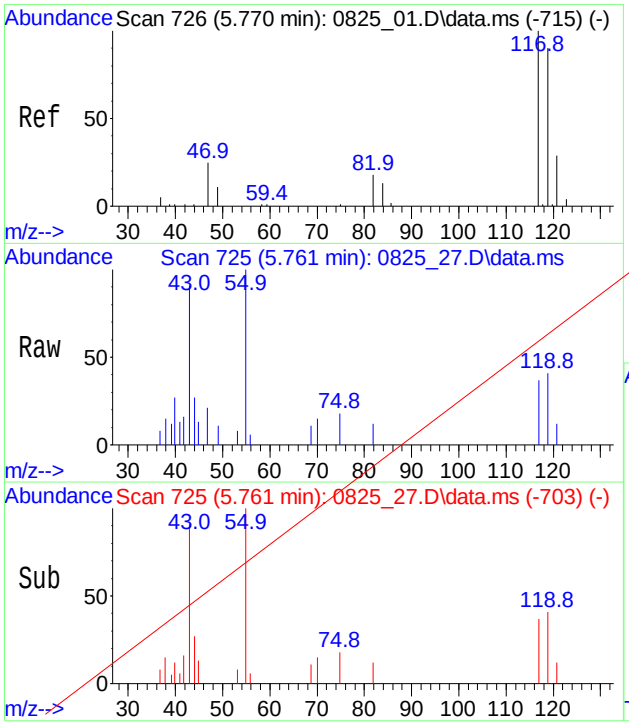


#13
Benzene
Conc: 8$ 0.157 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 78 Resp: 2543

Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.0	28.6
51	47.9	33.0	49.6

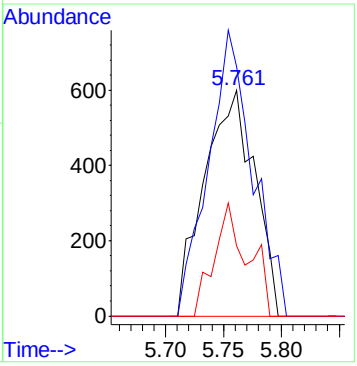


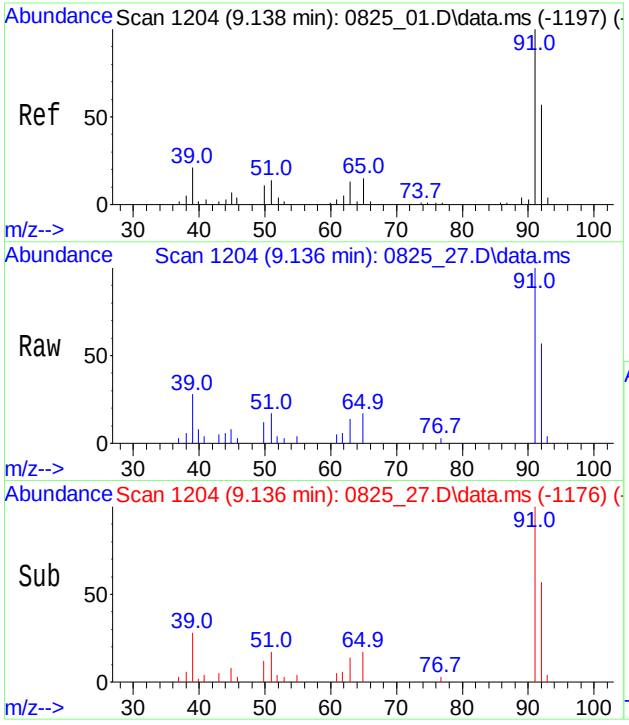


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.761 min Scan# 725
Delta R.T. 0.007 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion:117 Resp: 1795

Ion	Ratio	Lower	Upper
117	100		
119	111.0	76.4	116.4
121	33.3	11.9	51.9

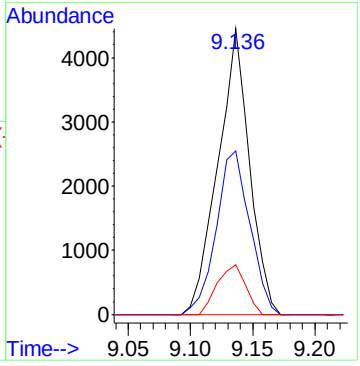


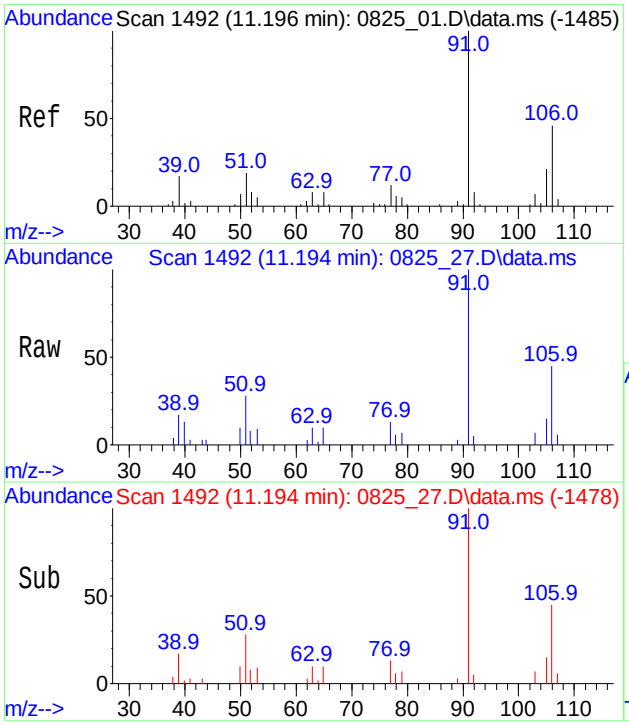


#18
Toluene
Conc: 8$ 0.325 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. 0.000 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 91 Resp: 7763

Ion	Ratio	Lower	Upper
91	100		
92	61.0	46.2	69.2
65	15.6	11.0	16.6

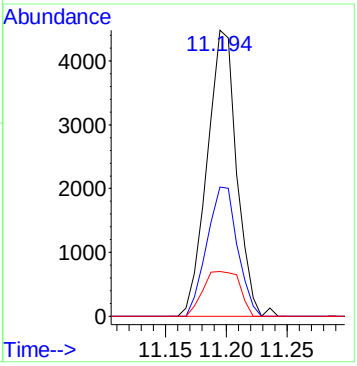


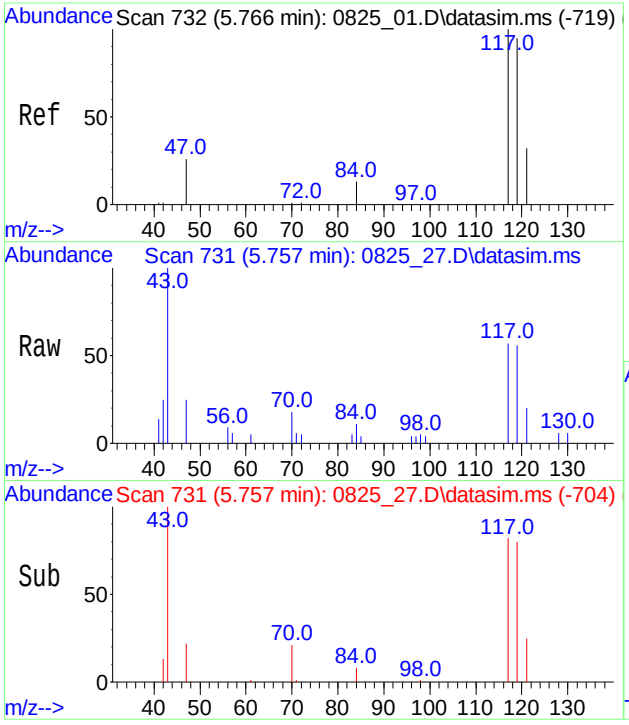


#23
m,p-Xylene
Conc: 8$ 0.299 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 91 Resp: 7481

Ion	Ratio	Lower	Upper
91	100		
106	46.6	39.3	58.9
105	19.3	17.8	26.6

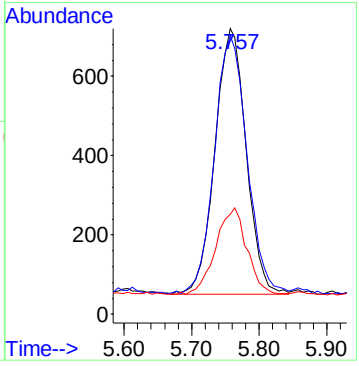


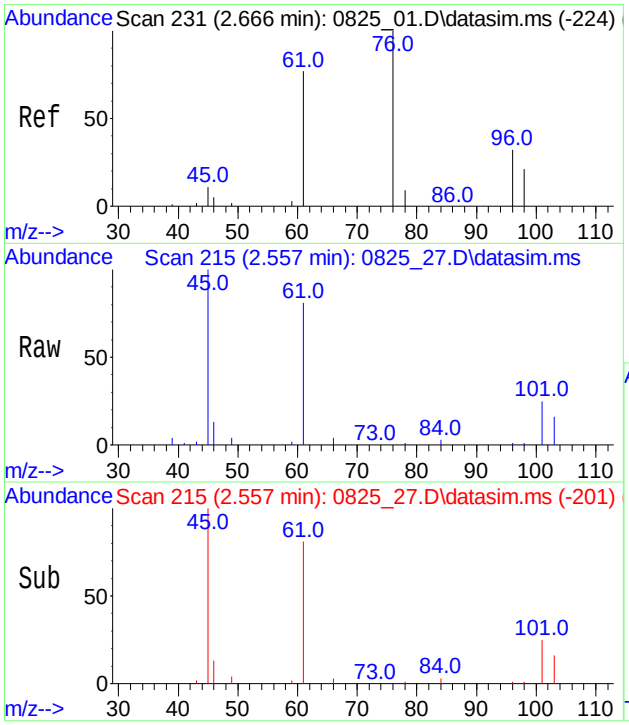


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.074 ppbv
RT: 5.757 min Scan# 731
Delta R.T. -0.007 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion:117 Resp: 2158

Ion	Ratio	Lower	Upper
117	100		
119	100.8	76.7	115.1
121	32.9	25.4	38.0

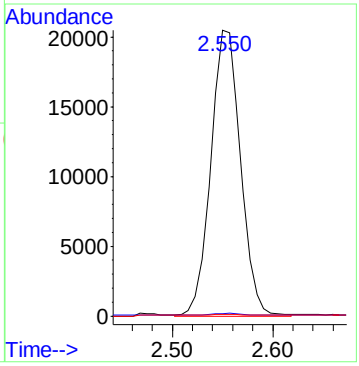


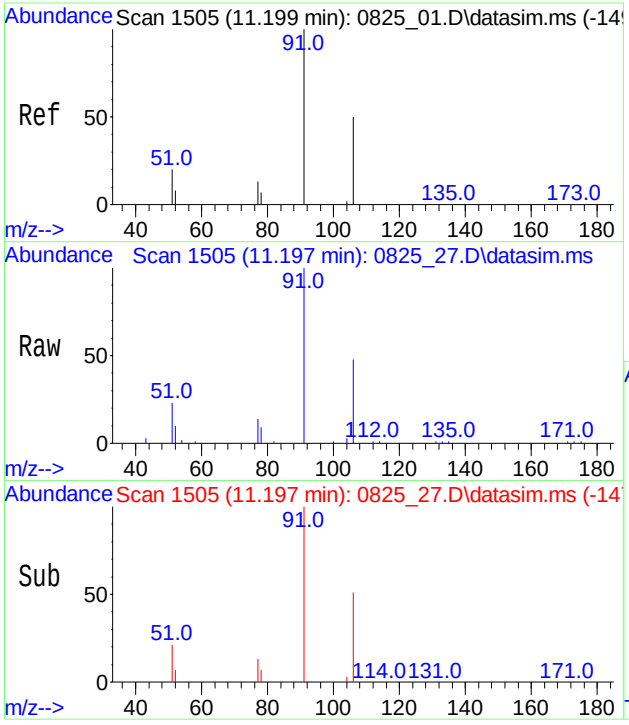


#35
1,1-Dichloroethene(sim)
Conc: 8$ 2.082 ppbv
RT: 2.554 min Scan# 215
Delta R.T. -0.109 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 61 Resp: 38251

Ion	Ratio	Lower	Upper
61	100		
96	0.2	31.8	47.8#
98	0.1	20.4	30.6#

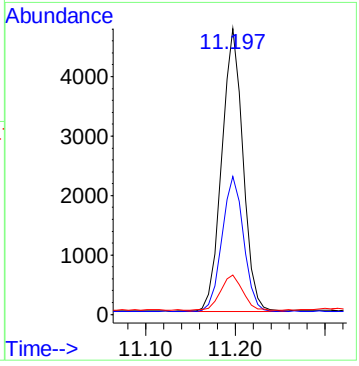




#48
m,p-Xylene(sim)
Conc: 8$ 0.318 ppbv
RT: 11.197 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 0825_27.D
Acq: 25 Aug 2020 11:29 pm

Tgt Ion: 91 Resp: 7797

Ion	Ratio	Lower	Upper
91	100		
106	48.9	44.2	54.0
77	13.0	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-10 (COLUMN US3-320A)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61557

Canister: 483 Lab File ID: 0825_28.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.294		0.200	0.200	r
67-64-1	Acetone	4.80	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.823		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.144		0.050	0.050	r
108-88-3	Toluene	0.307		0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.287		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_28.D
Acq On : 26 Aug 2020 12:18 am
Operator : Keith
Client ID : IA-10 (COLUMN US3-320A)
Lab ID : CG61557
ALS Vial : 197 Sample Multiplier: 1

Quant Time: Oct 13 15:48:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

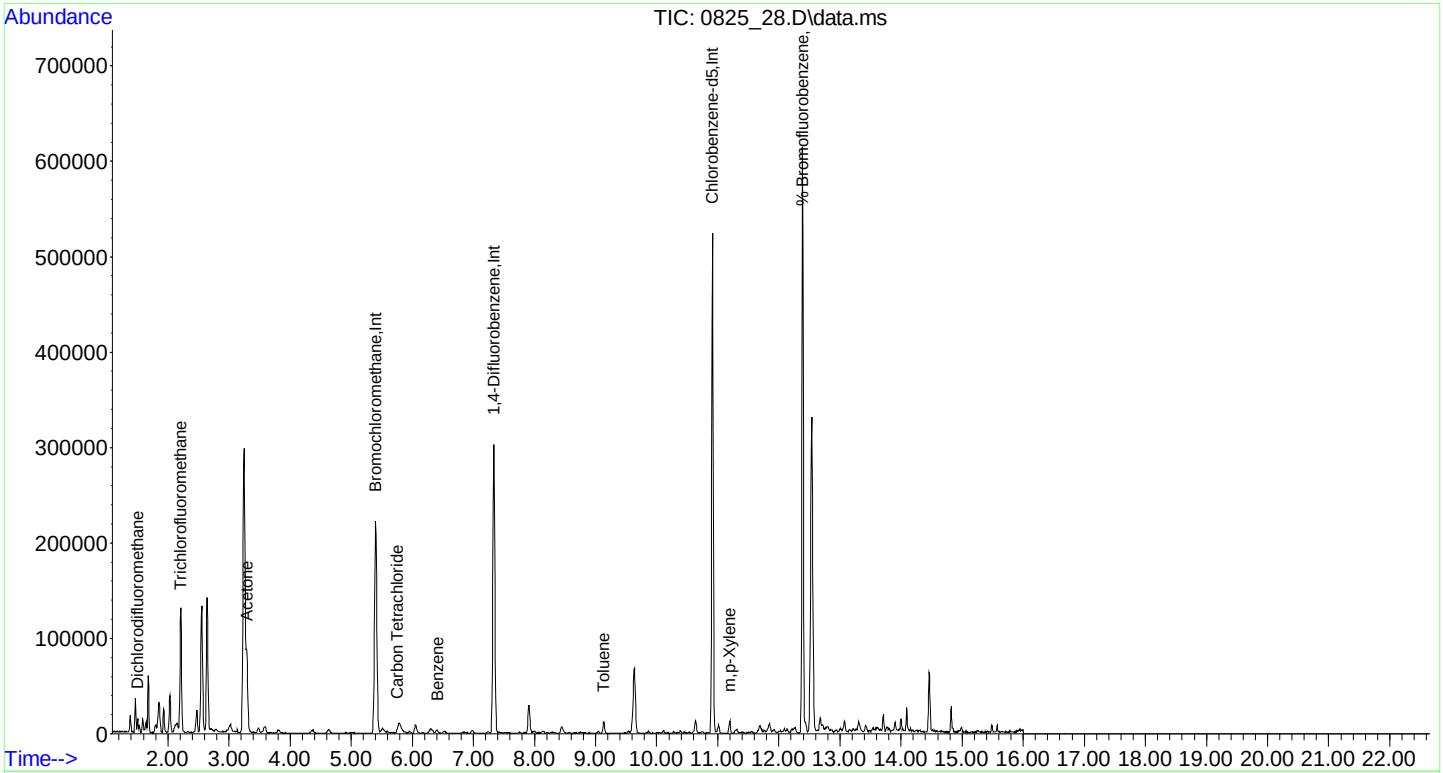
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.401	130	84835	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	255977	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	116664	10.000	ng		0.00
30) Bromochloromethane(sim)	5.403	130	93836	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	255977	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	116664	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	183279	10.074	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.506	85	4497	0.293	ppbv		95
4) Acetone	3.293	43	119987	4.803	ppbv		96
5) Trichlorofluoromethane	2.205	101	21144	0.823	ppbv		99
13) Benzene	6.414	78	2329m	0.144	ppbv		43
14) Carbon Tetrachloride	5.754	117	1846	0.074	ppbv		89
18) Toluene	9.136	91	7366	0.307	ppbv		100
23) m,p-Xylene	11.194	91	6536	0.255	ppbv		95
34] Carbon Tetrachloride(sim)	5.757	117	2213	0.075	ppbv		97
48] m,p-Xylene(sim)	11.197	91	7206	0.287	ppbv		100

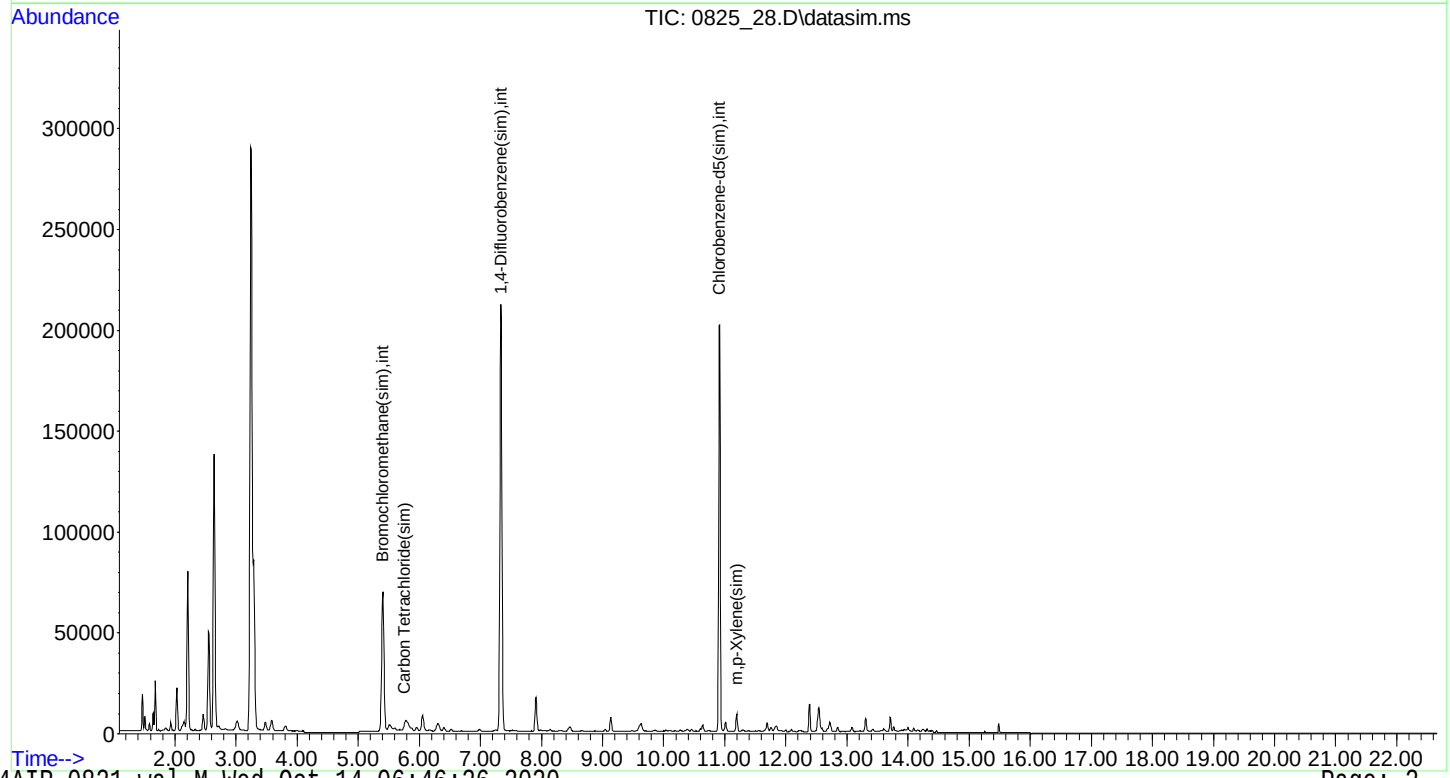
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

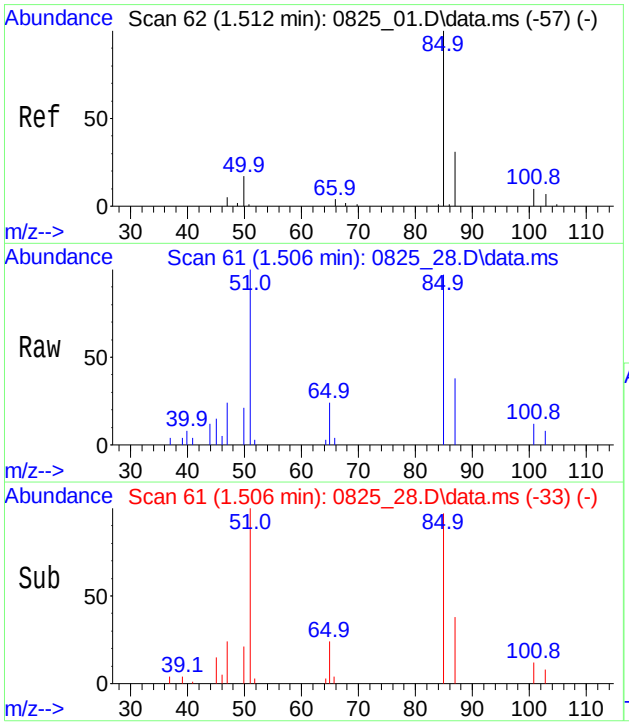
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_28.D
Acq On : 26 Aug 2020 12:18 am
Operator : Keith
Client ID : IA-10 (COLUMN US3-320A)
Lab ID : CG61557
ALS Vial : 197 Sample Multiplier: 1

Quant Time: Oct 13 15:48:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



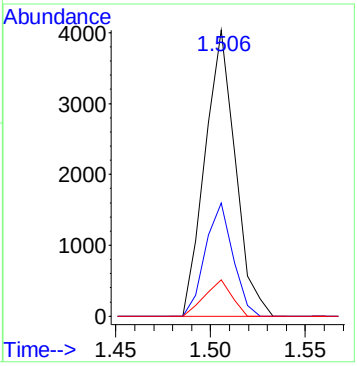


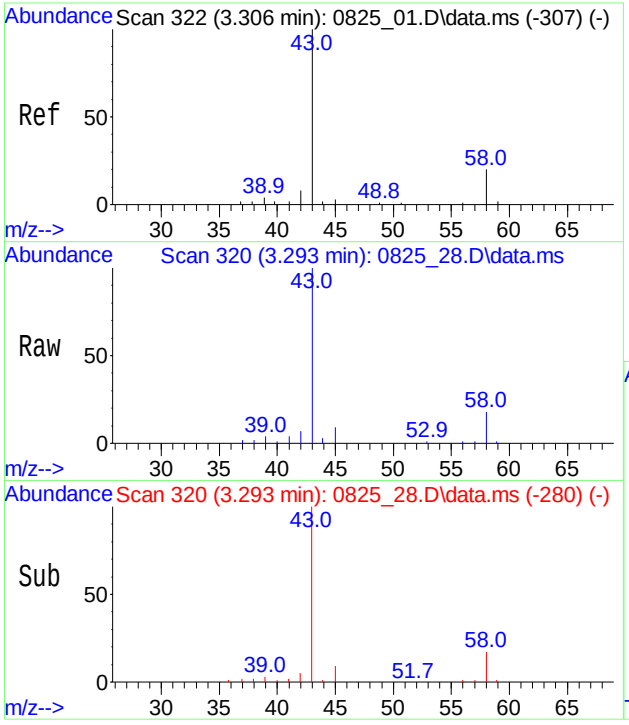


#2
Dichlorodifluoromethane
Conc: 8$ 0.293 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion: 85 Resp: 4497

Ion	Ratio	Lower	Upper
85	100		
87	36.0	26.1	39.1
101	11.2	8.4	12.6

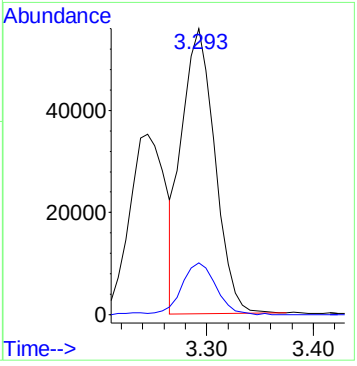


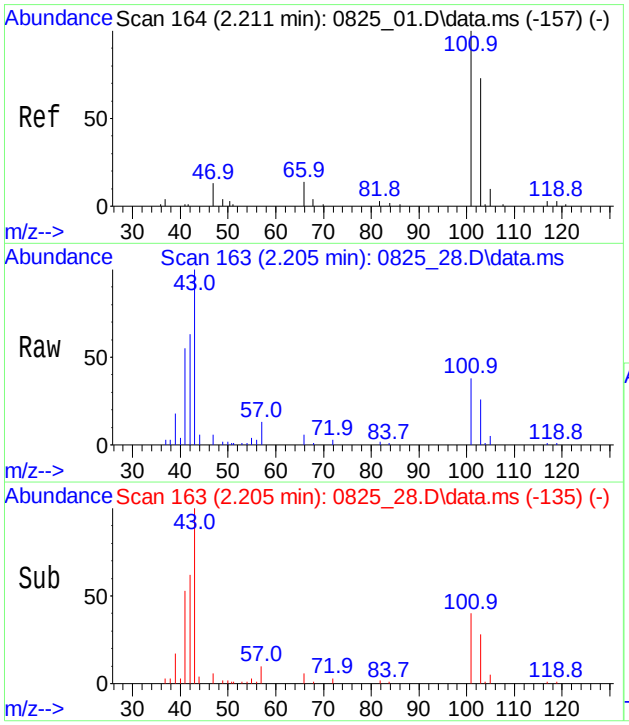


#4
Acetone
Conc: 8$ 4.803 ppbv
RT: 3.293 min Scan# 320
Delta R.T. -0.027 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion: 43 Resp: 119987

Ion	Ratio	Lower	Upper
43	100		
58	19.0	16.7	25.1

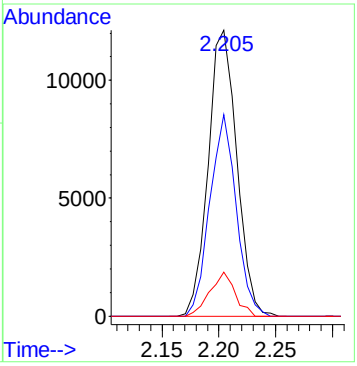


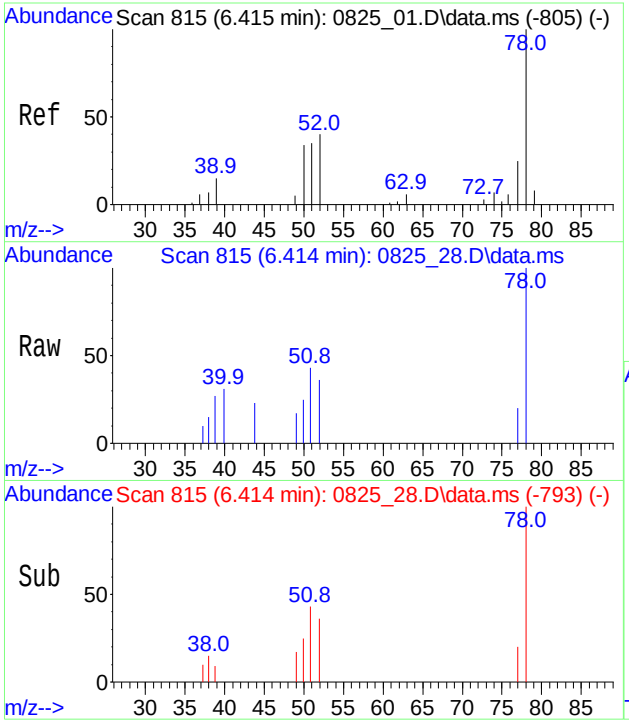


#5
Trichlorofluoromethane
Conc: 8$ 0.823 ppbv
RT: 2.205 min Scan# 163
Delta R.T. -0.006 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion:101 Resp: 21144

Ion	Ratio	Lower	Upper
101	100		
103	64.9	52.1	78.1
66	13.4	9.8	14.6

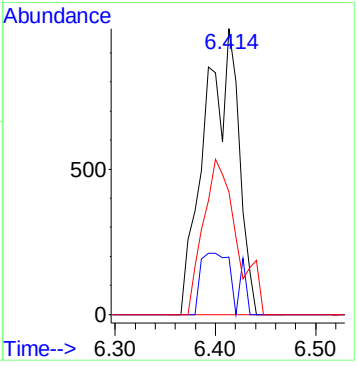


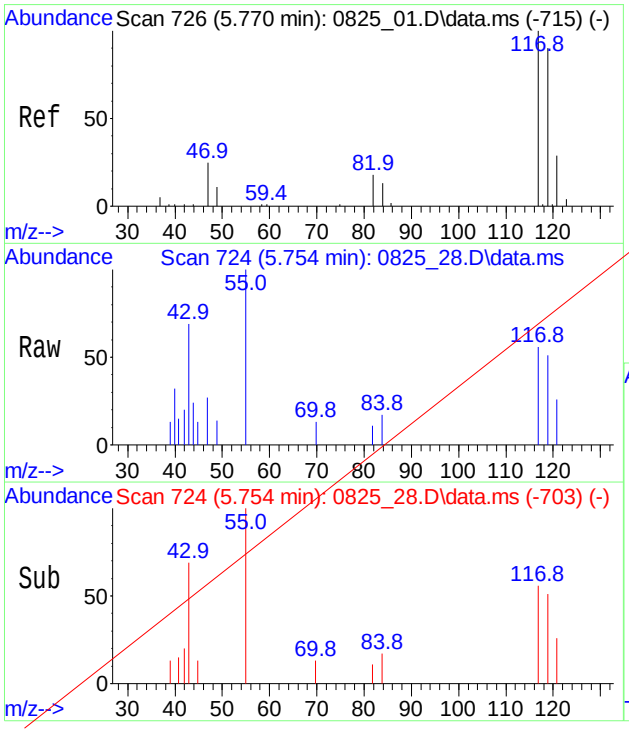


#13
Benzene
Conc: 8$ 0.144 ppbv
RT: 6.414 min Scan# 815
Delta R.T. -0.000 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion: 78 Resp: 2329

Ion	Ratio	Lower	Upper
78	100		
77	21.2	19.0	28.6
51	53.3	33.0	49.6#

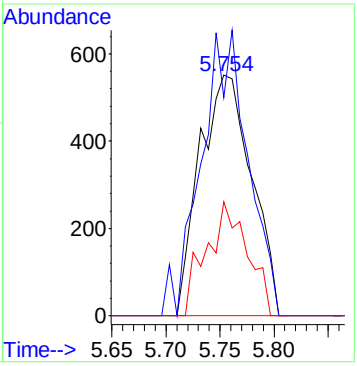


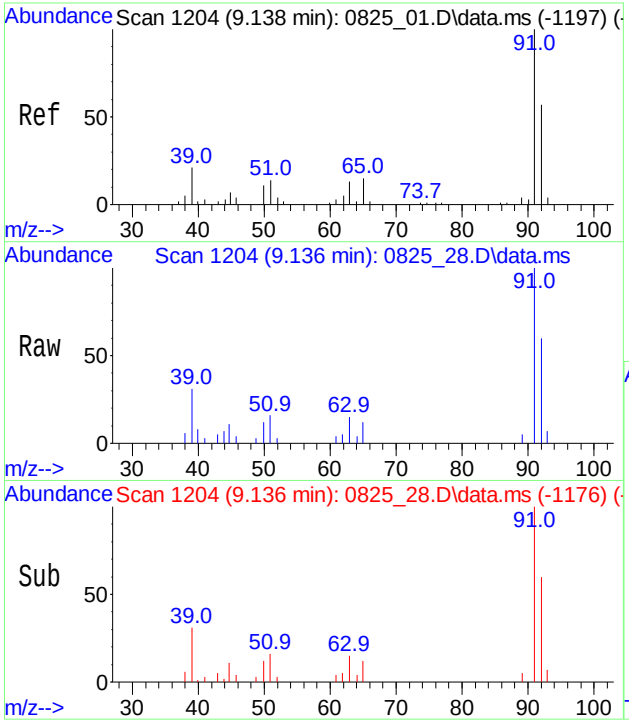


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.754 min Scan# 724
Delta R.T. -0.000 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion:117 Resp: 1846

Ion	Ratio	Lower	Upper
117	100		
119	106.9	76.4	116.4
121	37.5	11.9	51.9

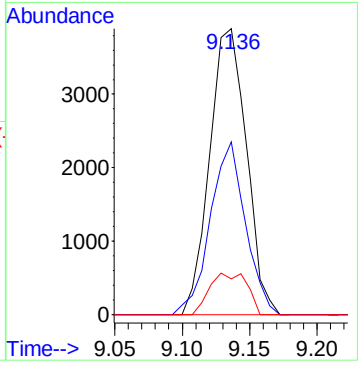


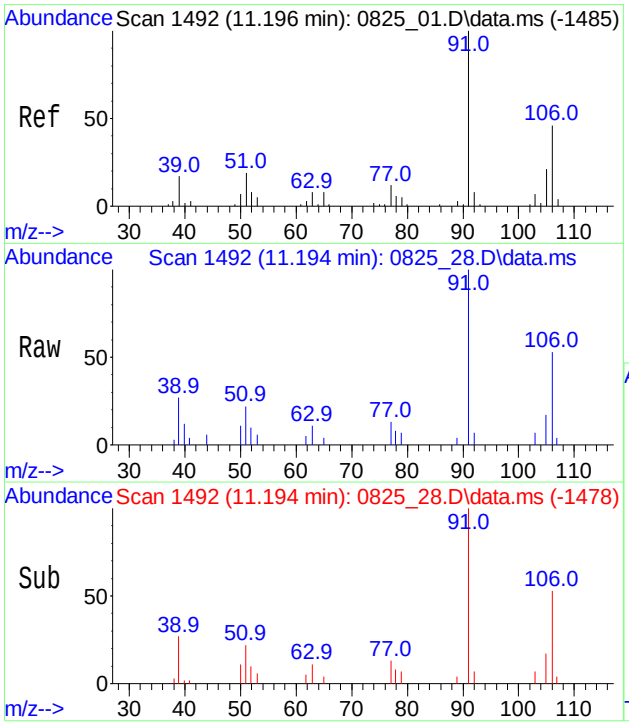


#18
Toluene
Conc: 8$ 0.307 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. 0.000 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion: 91 Resp: 7366

Ion	Ratio	Lower	Upper
91	100		
92	57.7	46.2	69.2
65	14.8	11.0	16.6

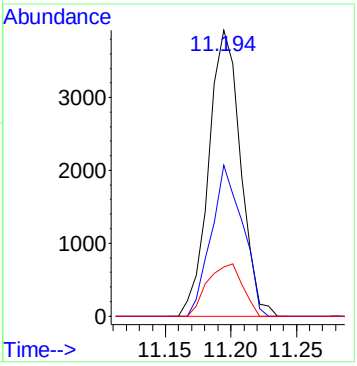


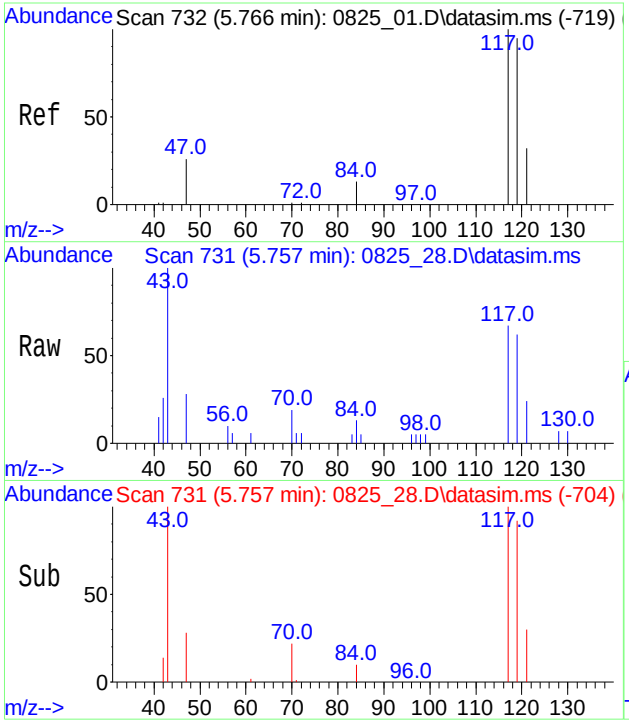


#23
m,p-Xylene
Conc: 8$ 0.255 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion: 91 Resp: 6536

Ion	Ratio	Lower	Upper
91	100		
106	52.6	39.3	58.9
105	20.1	17.8	26.6

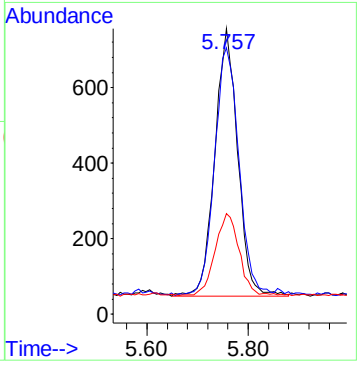


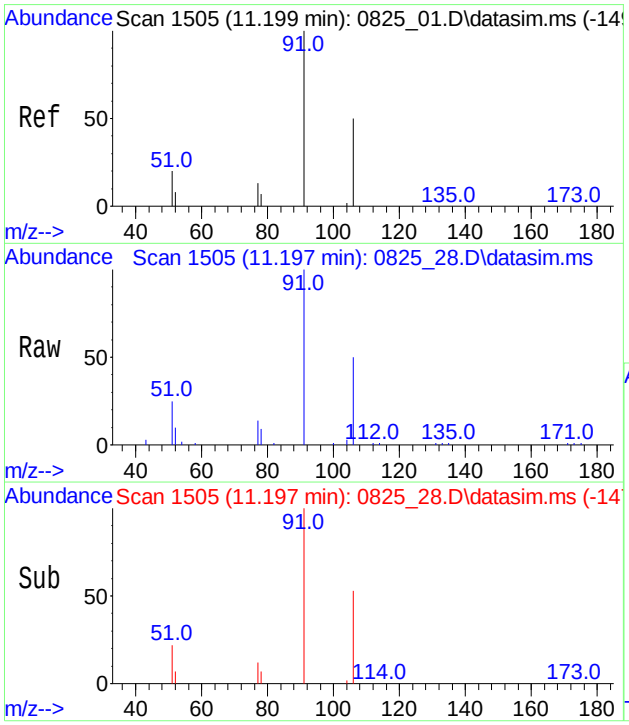


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.075 ppbv
RT: 5.757 min Scan# 731
Delta R.T. -0.007 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion:117 Resp: 2213

Ion	Ratio	Lower	Upper
117	100		
119	99.2	76.7	115.1
121	31.9	25.4	38.0

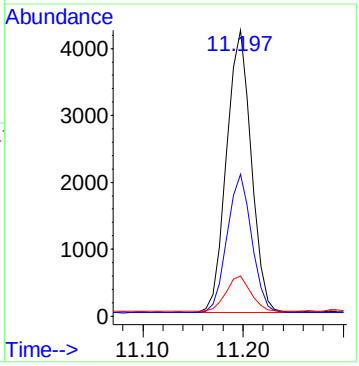




#48
m,p-Xylene(sim)
Conc: 8$ 0.287 ppbv
RT: 11.197 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 0825_28.D
Acq: 26 Aug 2020 12:18 am

Tgt Ion: 91 Resp: 7206

Ion	Ratio	Lower	Upper
91	100		
106	49.0	44.2	54.0
77	12.6	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-5 (COLUMN E10)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61558

Canister: 217 Lab File ID: 0825_29.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.358		0.200	0.200	r
67-64-1	Acetone	8.22	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	12.3		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.313		0.050	0.050	r
108-88-3	Toluene	0.977		0.200	0.200	r
127-18-4	Tetrachloroethene	0.467		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.220		0.150	0.150	r
179601-23-1	m,p-Xylene	0.651		0.150	0.150	r
95-47-6	o-Xylene	0.329		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.070		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_29.D
Acq On : 26 Aug 2020 1:04 am
Operator : Keith
Client ID : IA-5 (COLUMN E10)
Lab ID : CG61558
ALS Vial : 198 Sample Multiplier: 1

Quant Time: Oct 13 15:43:59 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

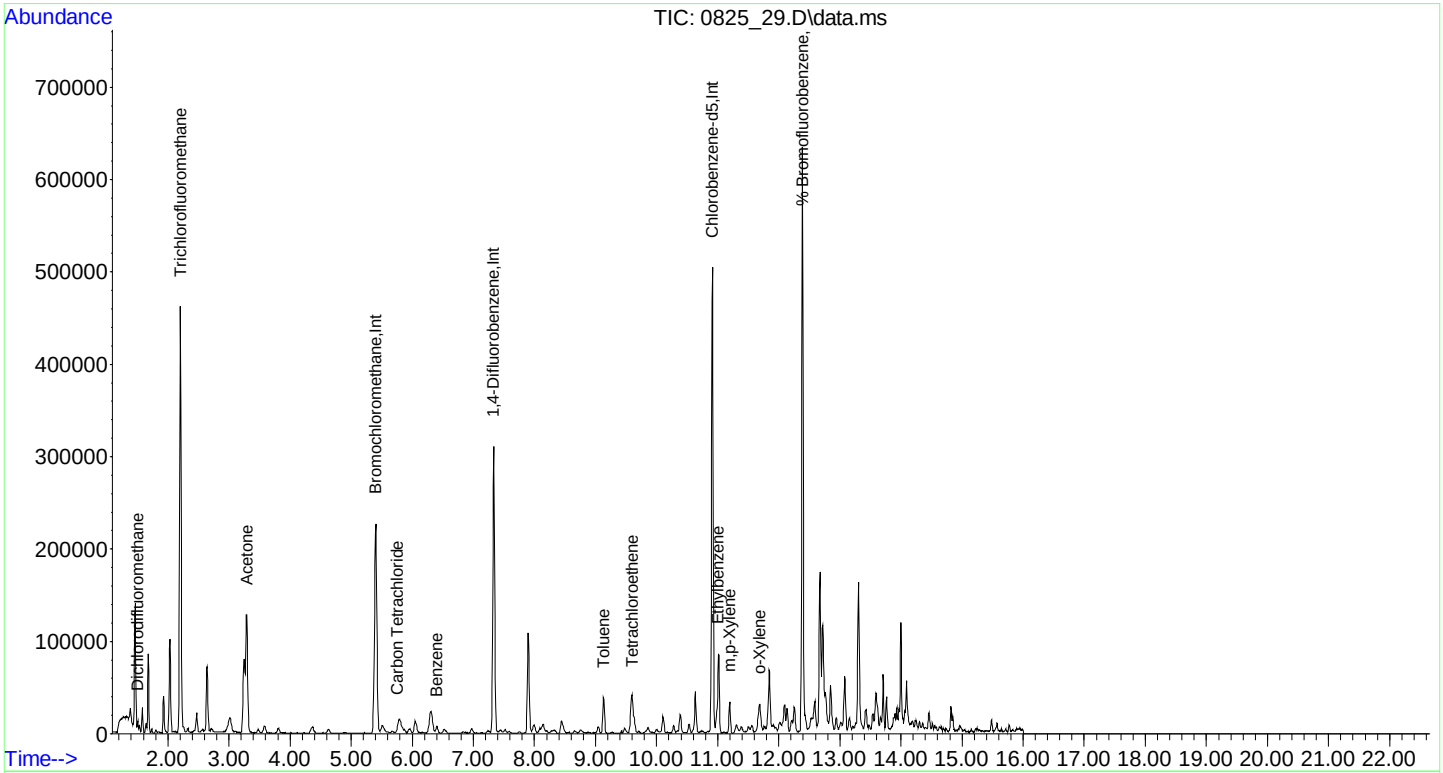
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	86939	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.333	114	259063	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	115171	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	95280	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.333	114	259063	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	115171	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.389	95	187186	10.422	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.506	85	5618	0.358	ppbv		96
4) Acetone	3.292	43	210524	8.223	ppbv#		91
5) Trichlorofluoromethane	2.204	101	323013	12.270	ppbv		100
13) Benzene	6.402	78	5196	0.313	ppbv		92
14) Carbon Tetrachloride	5.763	117	1716	0.068	ppbv		82
18) Toluene	9.131	91	23763	0.977	ppbv		96
19) Tetrachloroethene	9.600	166	7042	0.467	ppbv		91
22) Ethylbenzene	11.011	91	7307	0.220	ppbv		95
23) m,p-Xylene	11.196	91	16464	0.651	ppbv		98
24) o-Xylene	11.690	91	9042	0.329	ppbv		97
34] Carbon Tetrachloride(sim)	5.752	117	2094	0.070	ppbv		98
46] Tetrachloroethene(sim)	9.603	166	8391	0.616	ppbv		99
48] m,p-Xylene(sim)	11.192	91	18685	0.754	ppbv		99

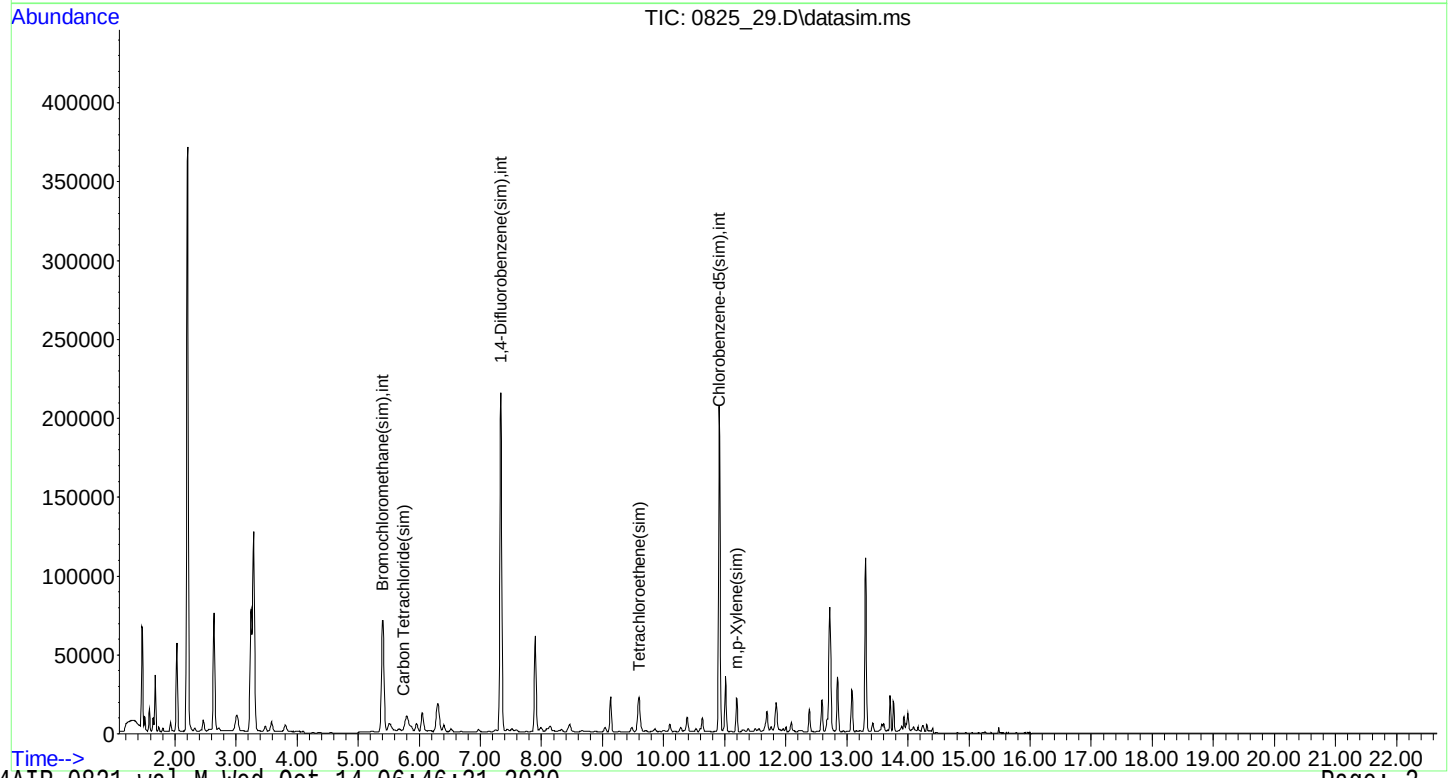
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

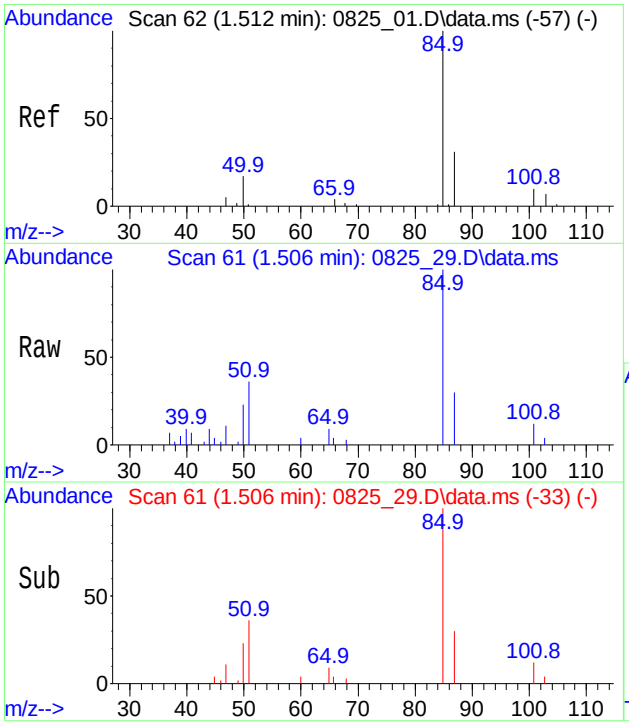
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_29.D
Acq On : 26 Aug 2020 1:04 am
Operator : Keith
Client ID : IA-5 (COLUMN E10)
Lab ID : CG61558
ALS Vial : 198 Sample Multiplier: 1

Quant Time: Oct 13 15:43:59 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



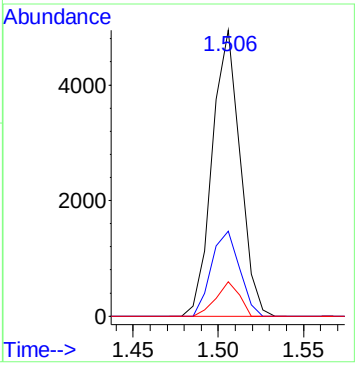


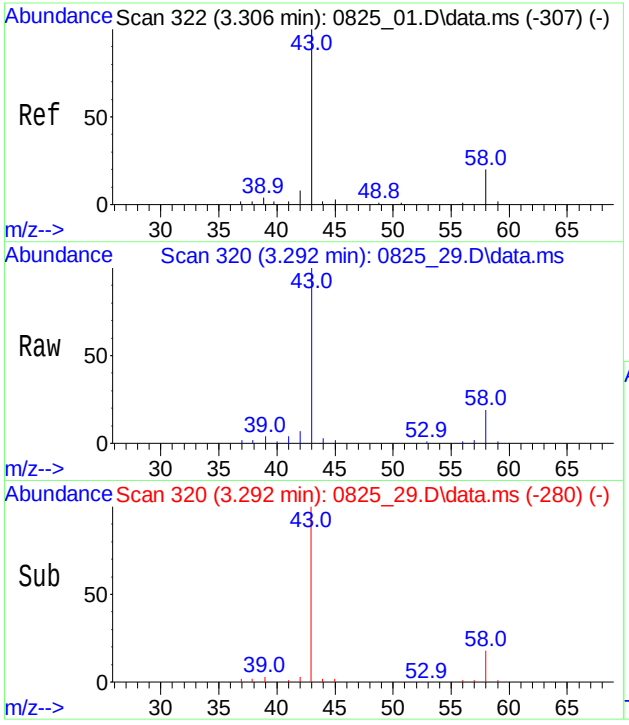


#2
Dichlorodifluoromethane
Conc: 8$ 0.358 ppbv
RT: 1.506 min Scan# 61
Delta R.T. -0.007 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 85 Resp: 5618

Ion	Ratio	Lower	Upper
85	100		
87	29.9	26.1	39.1
101	10.0	8.4	12.6

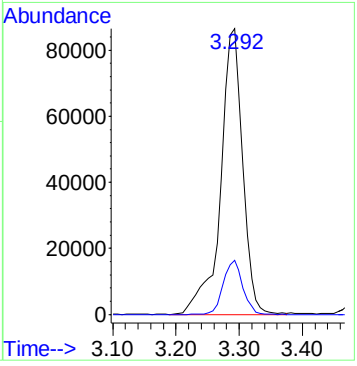


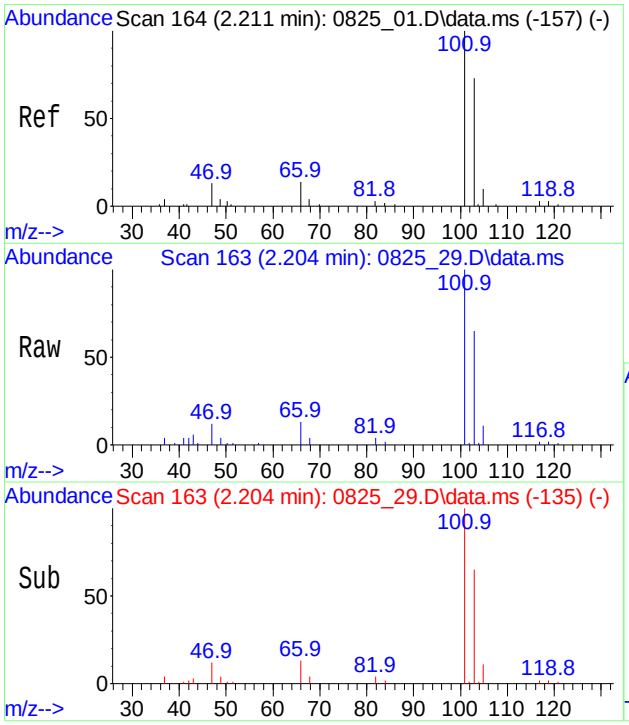


#4
Acetone
Conc: 8$ 8.223 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 43 Resp: 210524

Ion	Ratio	Lower	Upper
43	100		
58	16.7	16.7	25.1#

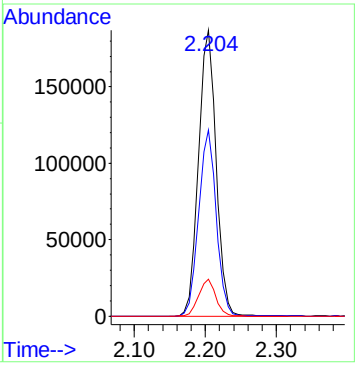


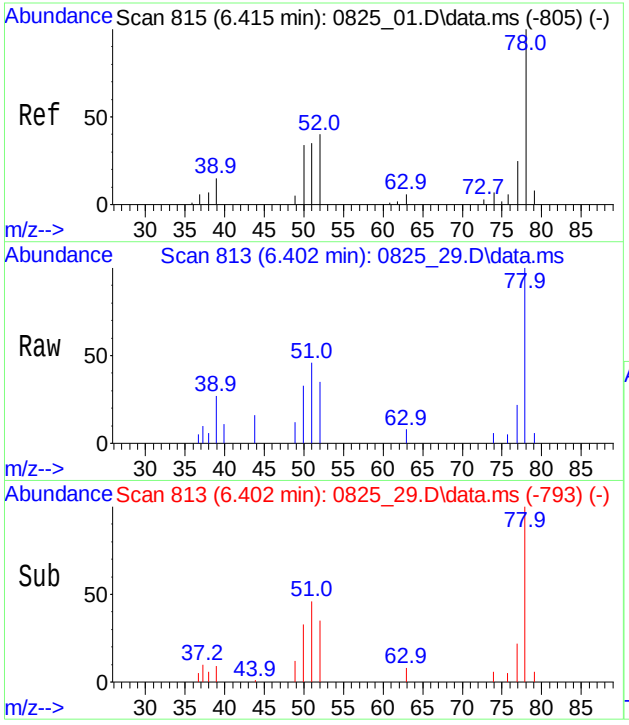


#5
Trichlorofluoromethane
Conc: 8$ 12.270 ppbv
RT: 2.204 min Scan# 163
Delta R.T. -0.007 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion:101 Resp: 323013

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.1	78.1
66	12.5	9.8	14.6

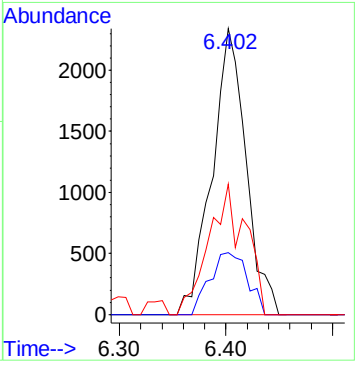


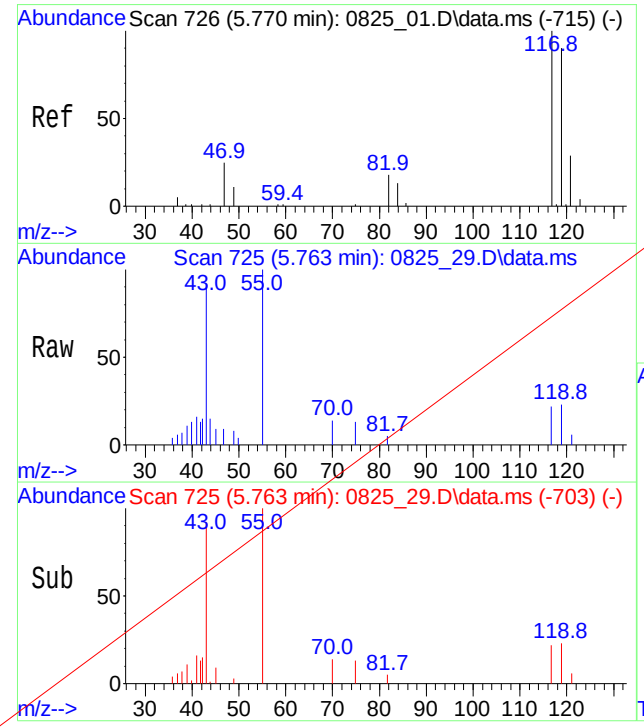


#13
Benzene
Conc: 8$ 0.313 ppbv
RT: 6.402 min Scan# 813
Delta R.T. -0.012 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 78 Resp: 5196

Ion	Ratio	Lower	Upper
78	100		
77	23.9	19.0	28.6
51	49.3	33.0	49.6

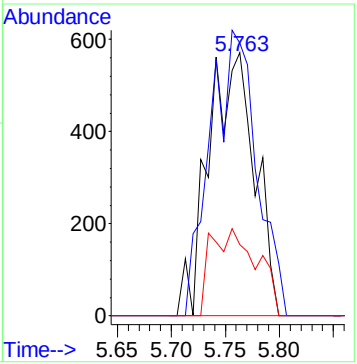


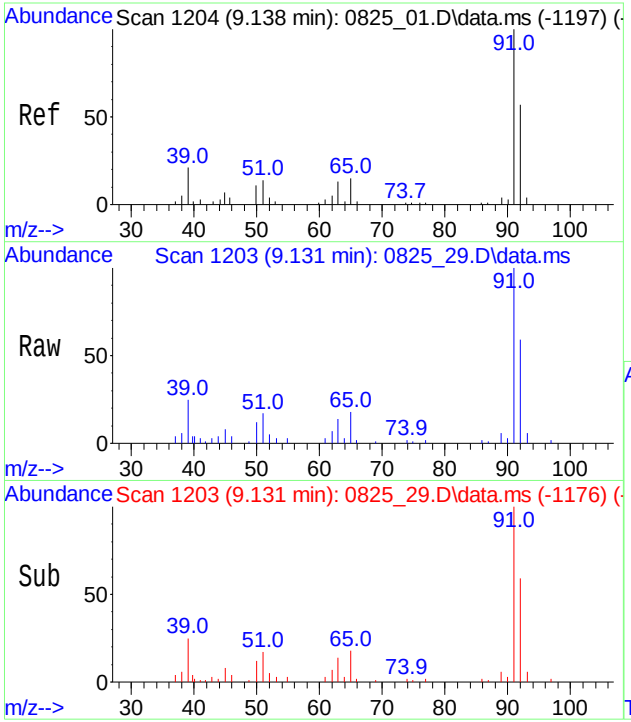


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.763 min Scan# 725
Delta R.T. 0.009 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion:117 Resp: 1716

Ion	Ratio	Lower	Upper
117	100		
119	108.0	76.4	116.4
121	12.1	11.9	51.9

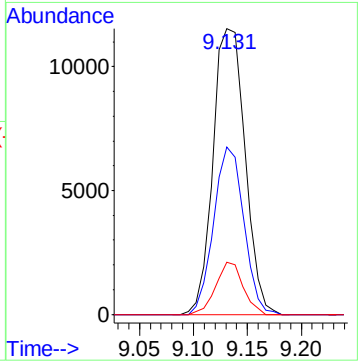


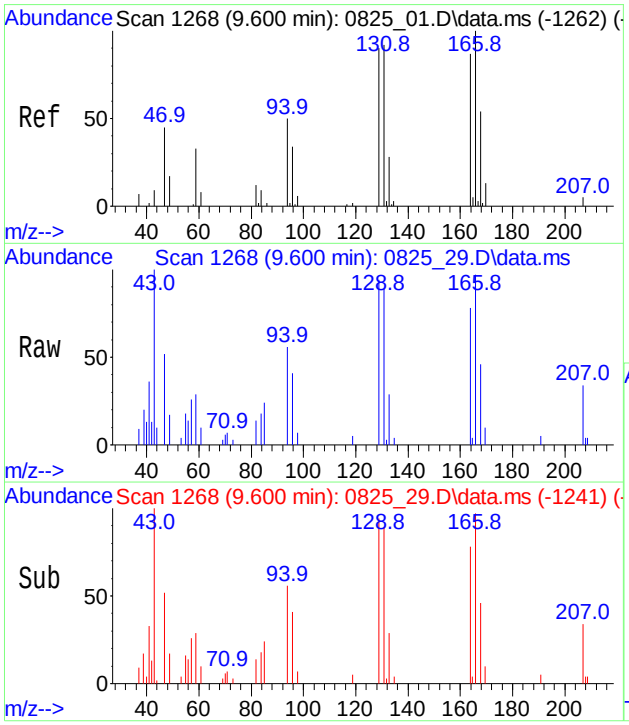


#18
Toluene
Conc: 8$ 0.977 ppbv
RT: 9.131 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 91 Resp: 23763

Ion	Ratio	Lower	Upper
91	100		
92	55.0	46.2	69.2
65	15.6	11.0	16.6

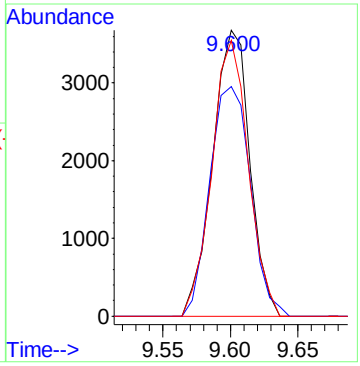


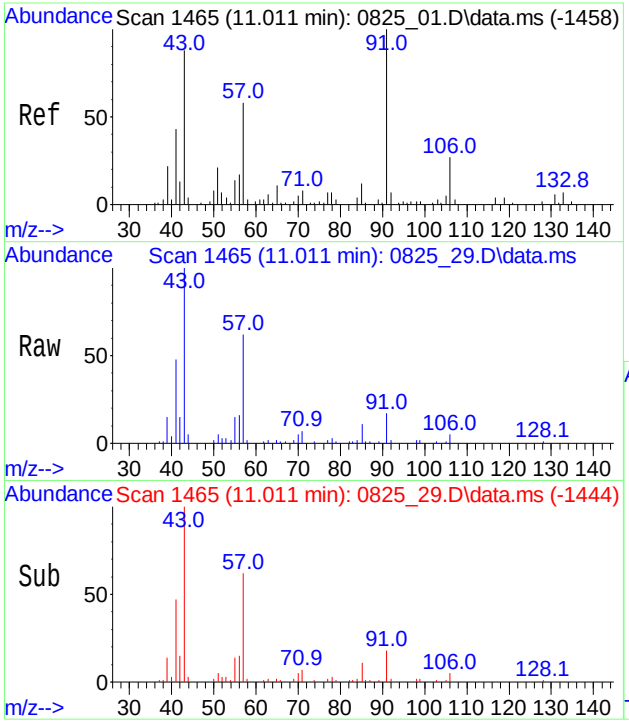


#19
Tetrachloroethene
Conc: 8$ 0.467 ppbv
RT: 9.600 min Scan# 1268
Delta R.T. -0.005 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion:166 Resp: 7042

Ion	Ratio	Lower	Upper
166	100		
164	87.9	62.4	93.6
129	94.5	69.8	104.8

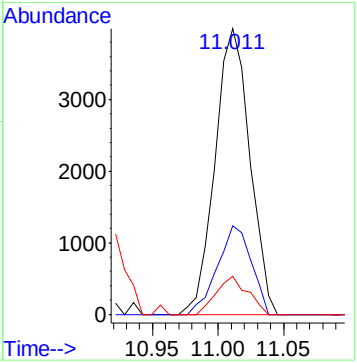


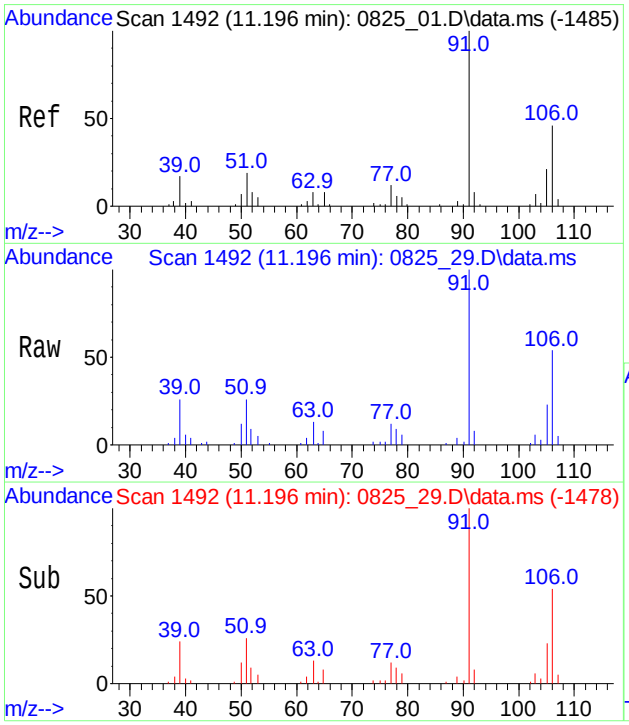


#22
Ethylbenzene
Conc: 8$ 0.220 ppbv
RT: 11.011 min Scan# 1465
Delta R.T. -0.005 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 91 Resp: 7307

Ion	Ratio	Lower	Upper
91	100		
106	30.2	12.2	52.2
77	12.0	0.0	28.6

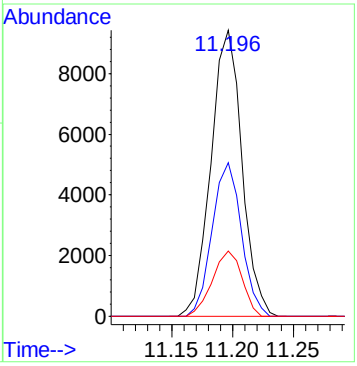


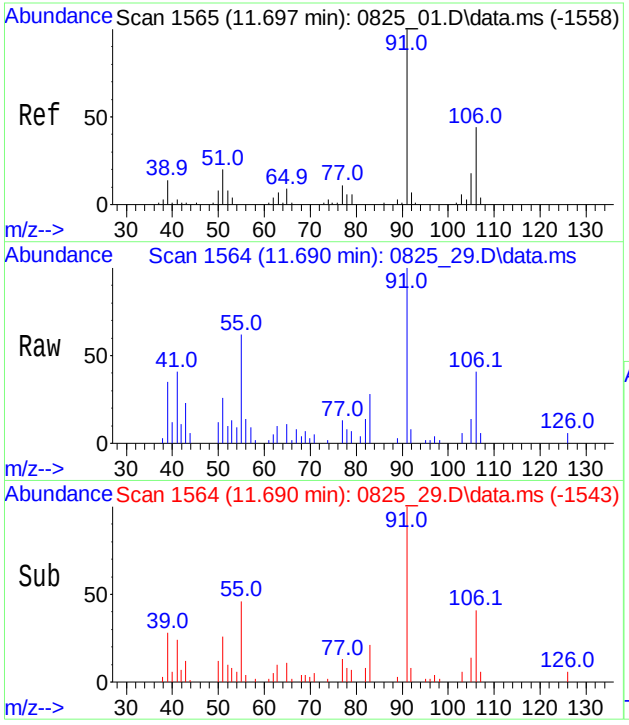


#23
m,p-Xylene
Conc: 8$ 0.651 ppbv
RT: 11.196 min Scan# 1492
Delta R.T. -0.005 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 91 Resp: 16464

Ion	Ratio	Lower	Upper
91	100		
106	50.7	39.3	58.9
105	21.8	17.8	26.6

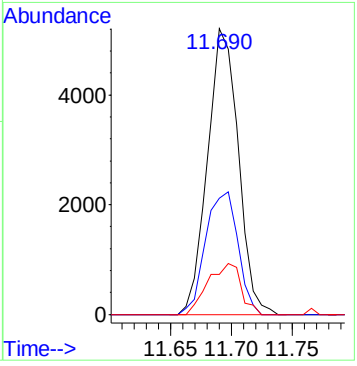


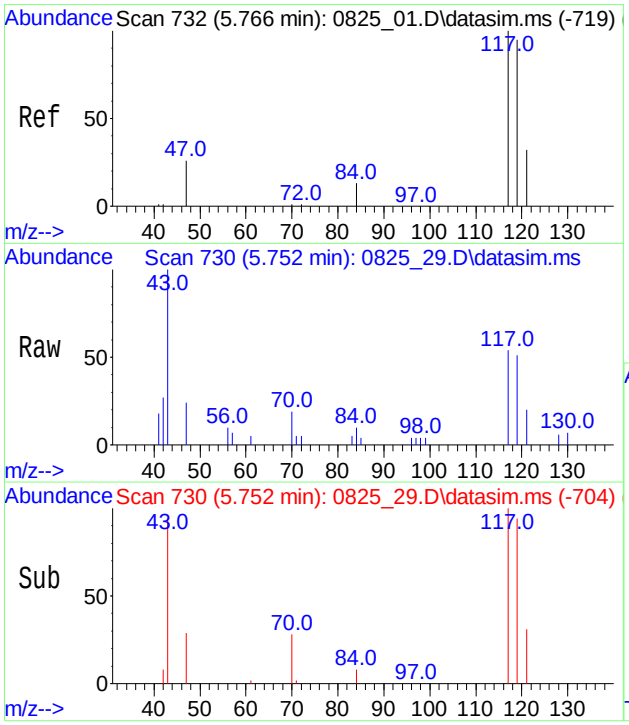


#24
o-Xylene
Conc: 8$ 0.329 ppbv
RT: 11.690 min Scan# 1564
Delta R.T. -0.005 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 91 Resp: 9042

Ion	Ratio	Lower	Upper
91	100		
106	45.1	38.0	57.0
105	19.2	15.0	22.6

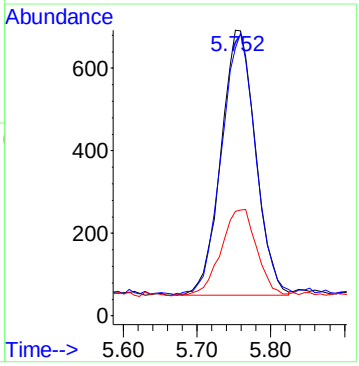


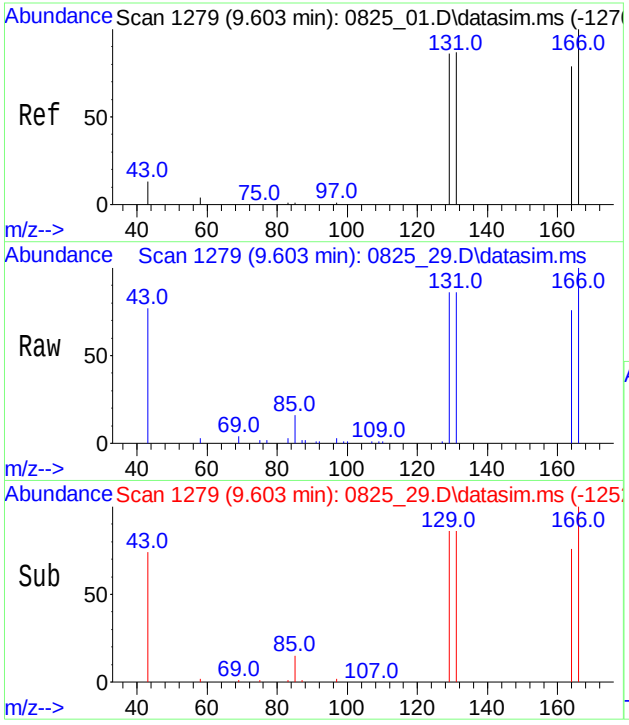


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.070 ppbv
RT: 5.752 min Scan# 730
Delta R.T. -0.012 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion:117 Resp: 2094

Ion	Ratio	Lower	Upper
117	100		
119	97.7	76.7	115.1
121	33.8	25.4	38.0

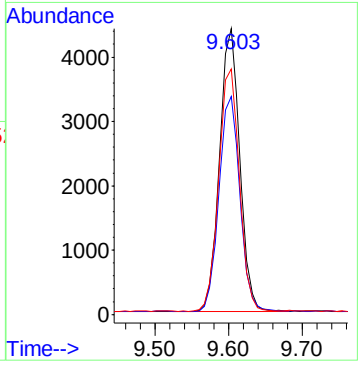


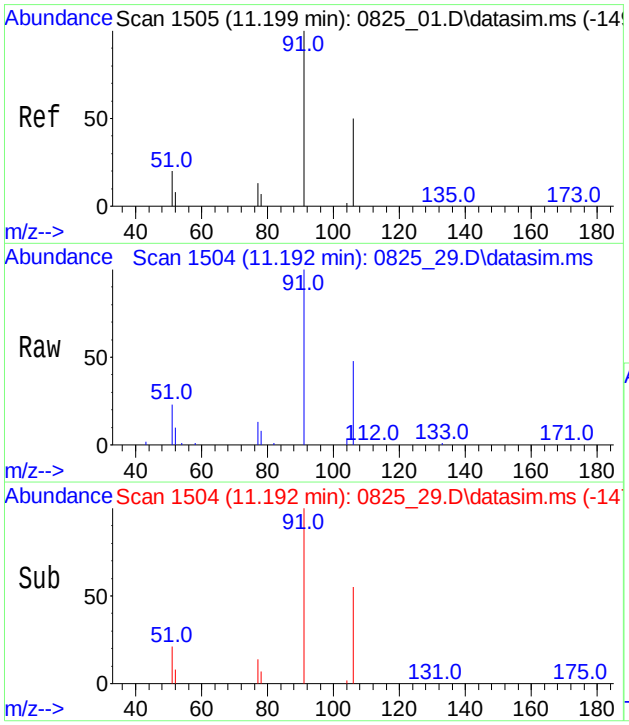


#46
Tetrachloroethene(sim)
Conc: 8$ 0.616 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion:166 Resp: 8391

Ion	Ratio	Lower	Upper
166	100		
164	78.8	58.0	98.0
129	87.5	67.3	107.3

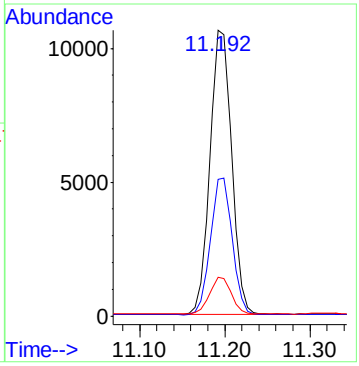




#48
m,p-Xylene(sim)
Conc: 8$ 0.754 ppbv
RT: 11.192 min Scan# 1504
Delta R.T. -0.009 min
Lab File: 0825_29.D
Acq: 26 Aug 2020 1:04 am

Tgt Ion: 91 Resp: 18685

Ion	Ratio	Lower	Upper
91	100		
106	48.2	44.2	54.0
77	12.8	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-12 (COLUMN AG4-320A)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61559

Canister: 28593 Lab File ID: 0825_30.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.352		0.200	0.200	r
67-64-1	Acetone	7.21	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.663		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.139		0.050	0.050	r
108-88-3	Toluene	0.301		0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.075		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.268		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_30.D
Acq On : 26 Aug 2020 1:50 am
Operator : Keith
Client ID : IA-12 (COLUMN AG4-320A)
Lab ID : CG61559
ALS Vial : 199 Sample Multiplier: 1

Quant Time: Oct 13 15:49:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

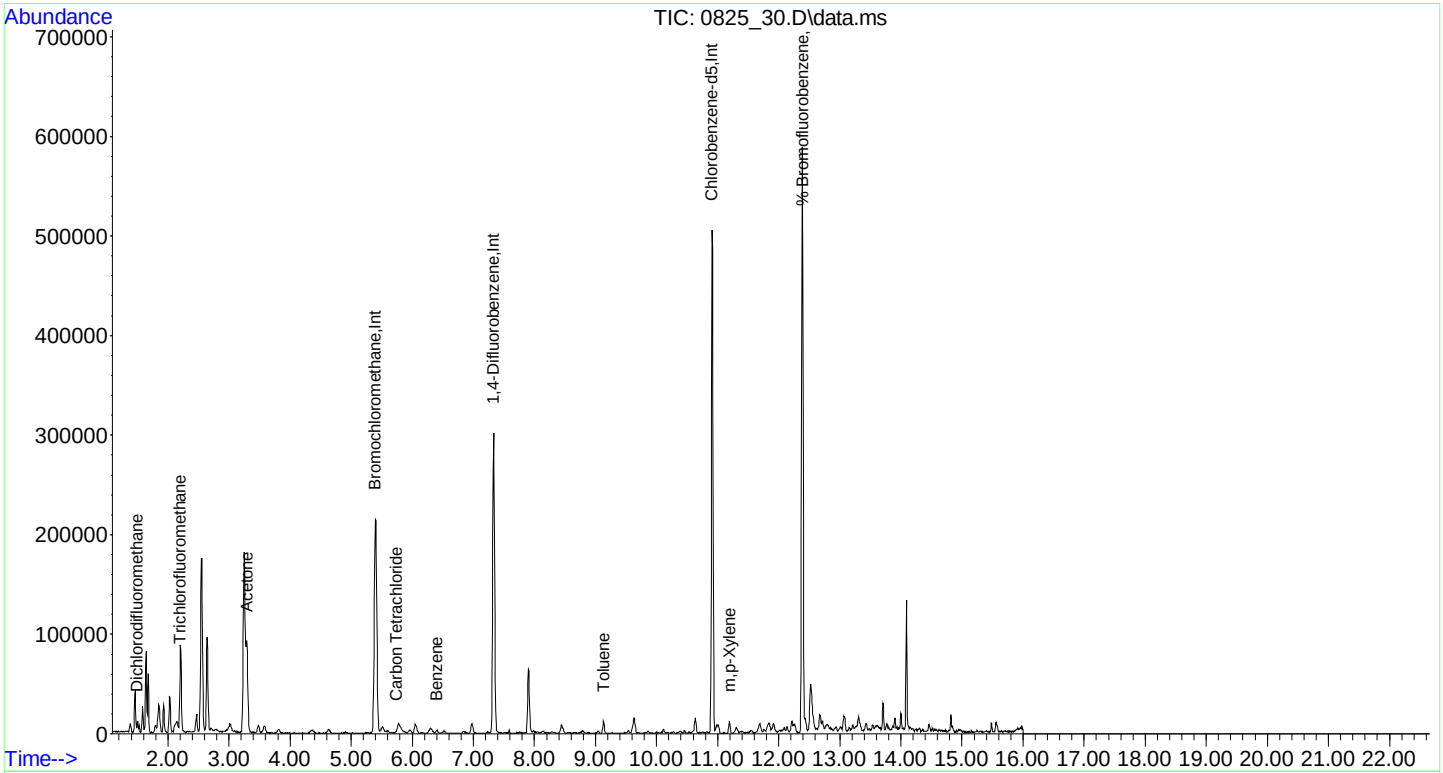
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.395	130	84371	10.000	ng	-0.01
15) 1,4-Difluorobenzene	7.333	114	251574	10.000	ng	0.00
20) Chlorobenzene-d5	10.908	82	115863	10.000	ng	0.00
30) Bromochloromethane(sim)	5.398	130	92896	10.000	ng	#-0.01
41) 1,4-Difluorobenzene(sim)	7.333	114	251574	10.000	ng	0.00
47) Chlorobenzene-d5(sim)	10.908	82	115863	10.000	ng	0.00
System Monitoring Compounds						
25) % Bromofluorobenzene	12.389	95	180451	9.987	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	5367	0.352	ppbv	98
3) Vinyl Chloride	1.643	62	132	0.016	ppbv#	26
4) Acetone	3.292	43	179218	7.213	ppbv#	84
5) Trichlorofluoromethane	2.198	101	16950	0.663	ppbv	98
13) Benzene	6.402	78	2237	0.139	ppbv#	78
14) Carbon Tetrachloride	5.742	117	925	0.038	ppbv#	4
18) Toluene	9.131	91	7106	0.301	ppbv	97
23) m,p-Xylene	11.196	91	6045	0.238	ppbv	99
34) Carbon Tetrachloride(sim)	5.759	117	2188	0.075	ppbv	92
48) m,p-Xylene(sim)	11.192	91	6684	0.268	ppbv	99

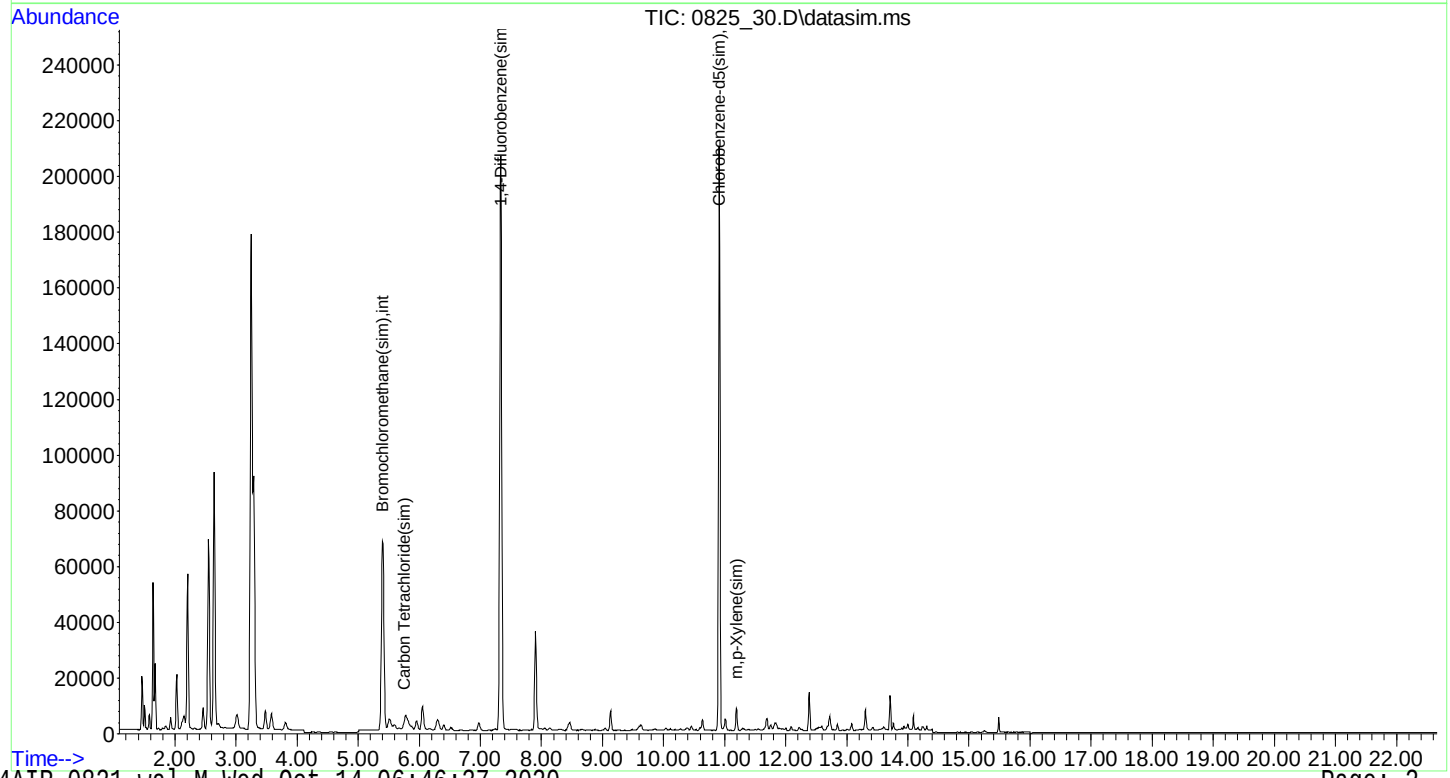
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

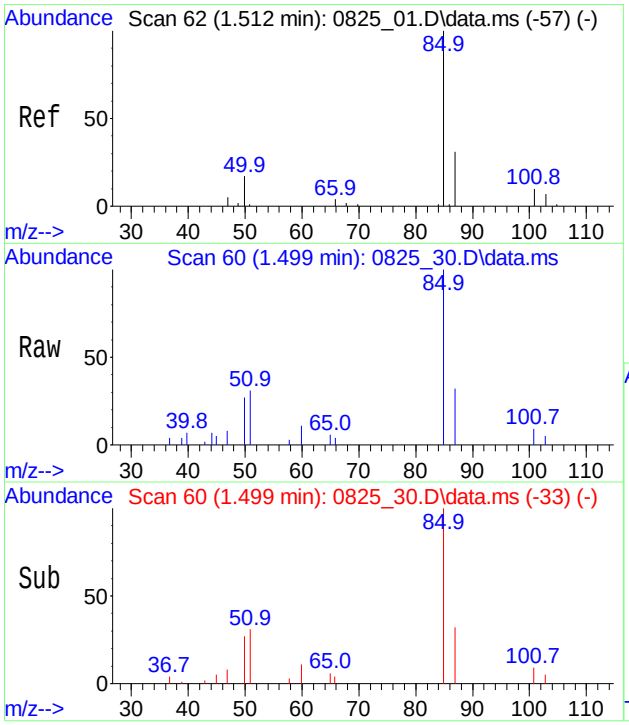
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_30.D
Acq On : 26 Aug 2020 1:50 am
Operator : Keith
Client ID : IA-12 (COLUMN AG4-320A)
Lab ID : CG61559
ALS Vial : 199 Sample Multiplier: 1

Quant Time: Oct 13 15:49:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



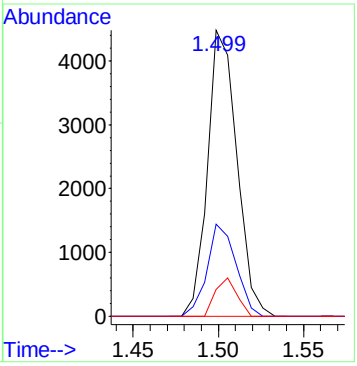


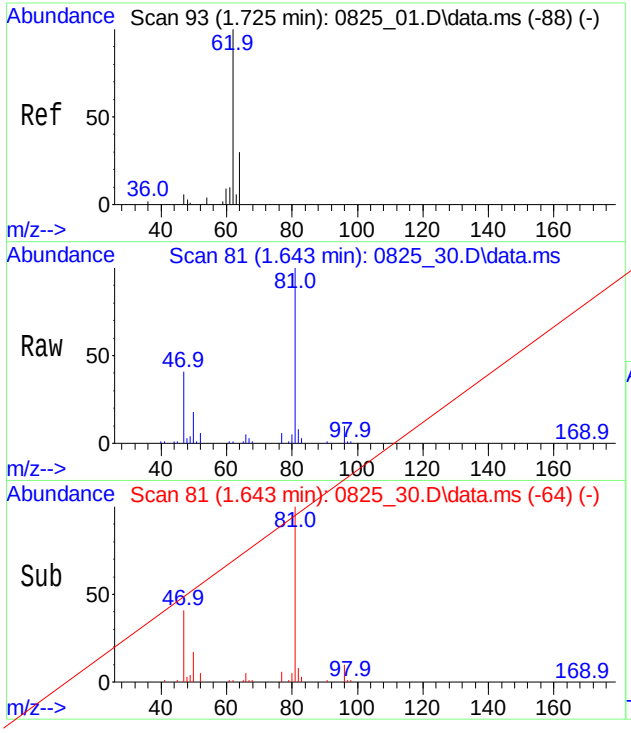


#2
Dichlorodifluoromethane
Conc: 8$ 0.352 ppbv
RT: 1.499 min Scan# 60
Delta R.T. -0.014 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 85 Resp: 5367

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.1	39.1
101	9.7	8.4	12.6

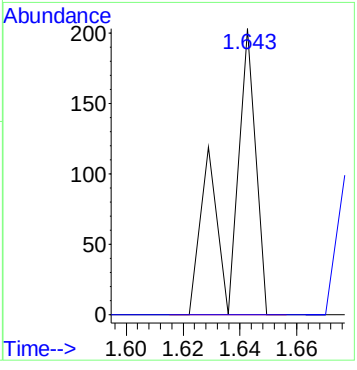


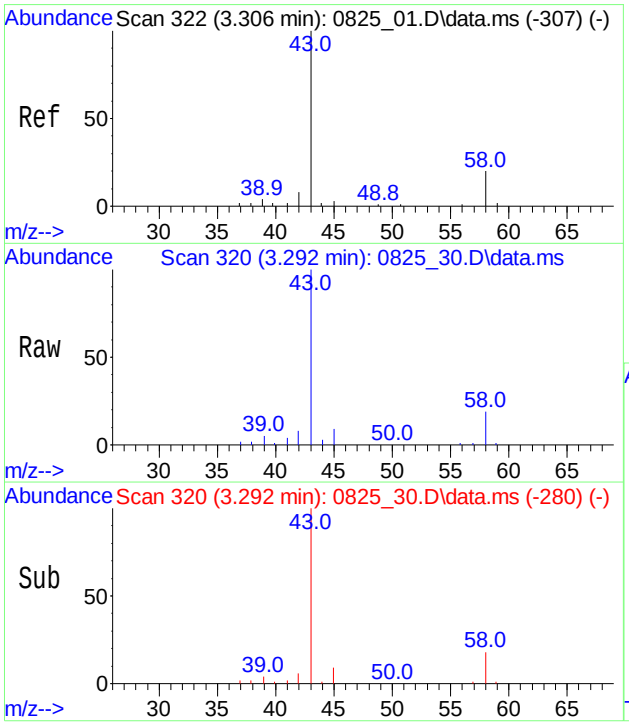


#3
Vinyl Chloride
Conc: 8$ Below Cal
RT: 1.643 min Scan# 81
Delta R.T. -0.082 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 62 Resp: 132

Ion	Ratio	Lower	Upper
62	100		
64	67.4	8.3	48.3#

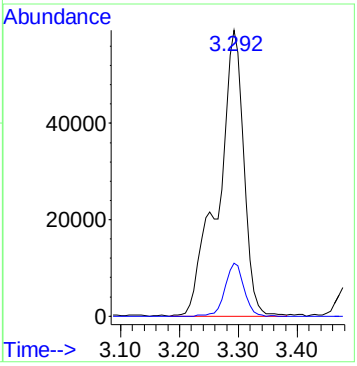


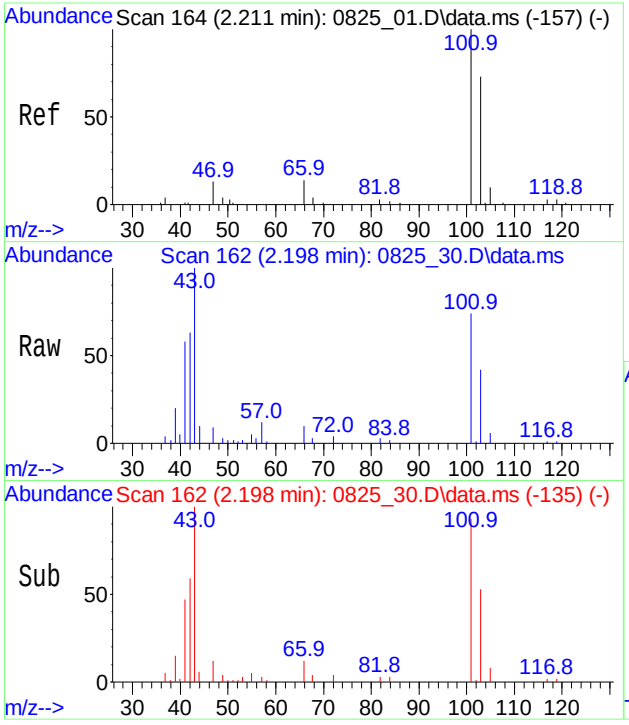


#4
Acetone
Conc: 8$ 7.213 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 43 Resp: 179218

Ion	Ratio	Lower	Upper
43	100		
58	13.5	16.7	25.1#

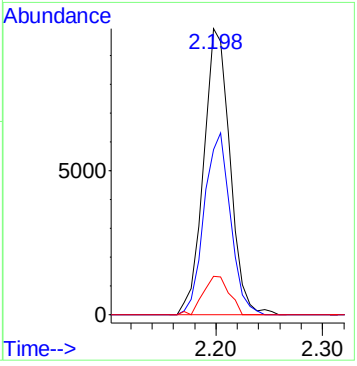


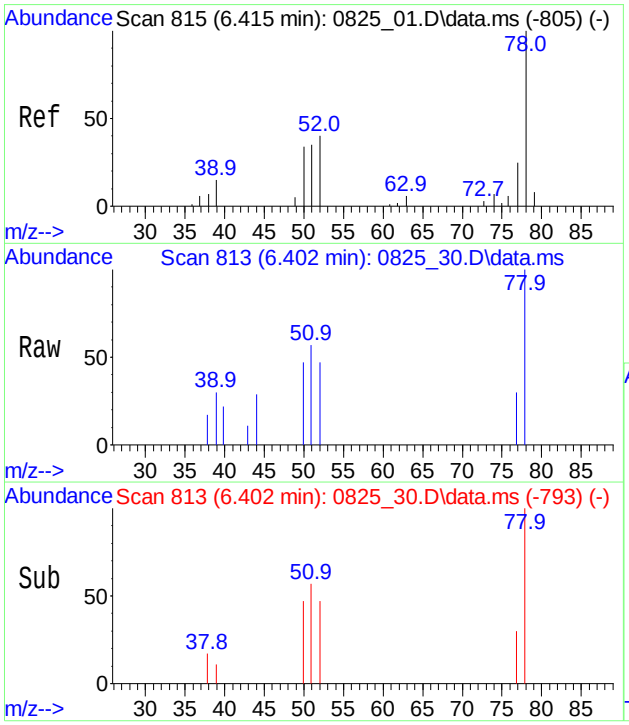


#5
Trichlorofluoromethane
Conc: 8$ 0.663 ppbv
RT: 2.198 min Scan# 162
Delta R.T. -0.013 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion:101 Resp: 16950

Ion	Ratio	Lower	Upper
101	100		
103	63.2	52.1	78.1
66	13.0	9.8	14.6

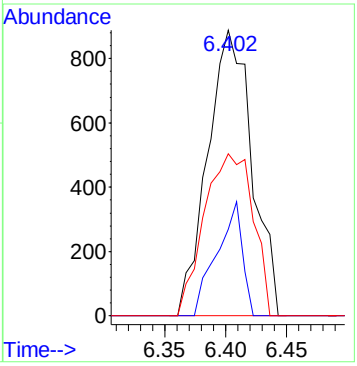


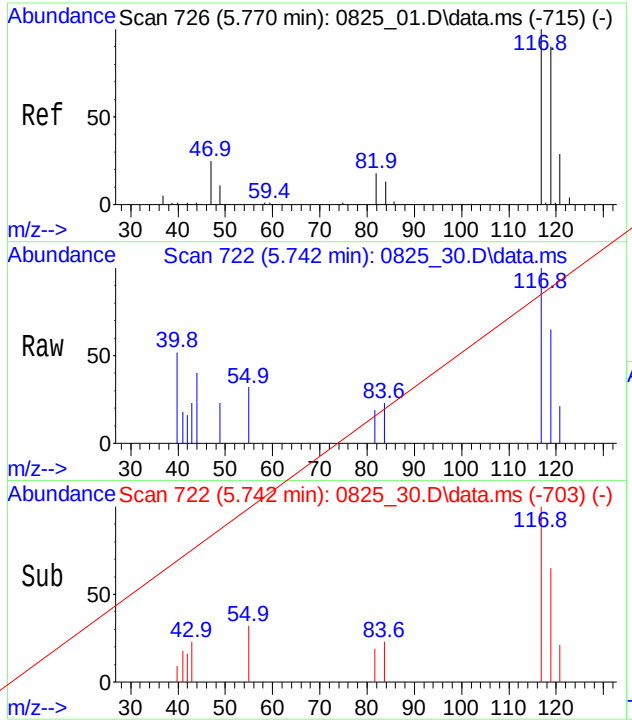


#13
Benzene
Conc: 8$ 0.139 ppbv
RT: 6.402 min Scan# 813
Delta R.T. -0.012 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 78 Resp: 2237

Ion	Ratio	Lower	Upper
78	100		
77	23.0	19.0	28.6
51	62.4	33.0	49.6#

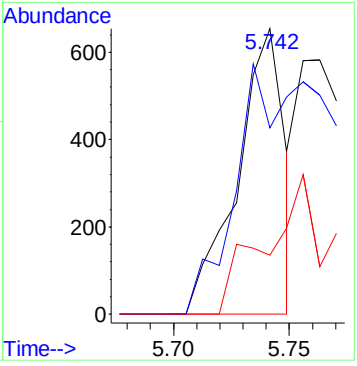


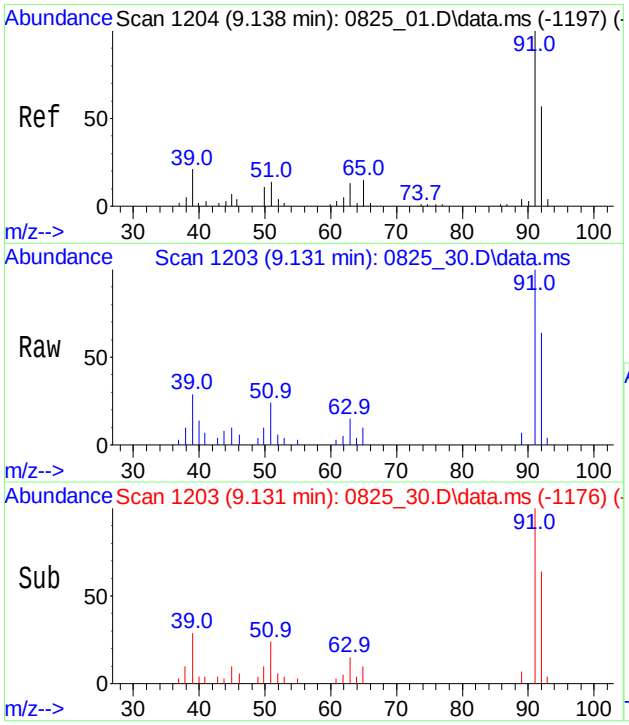


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.742 min Scan# 722
Delta R.T. -0.012 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion:117 Resp: 925

Ion	Ratio	Lower	Upper
117	100		
119	202.2	76.4	116.4#
121	64.4	11.9	51.9#

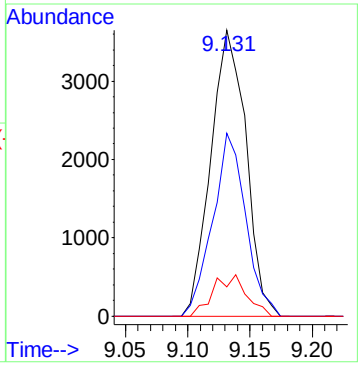


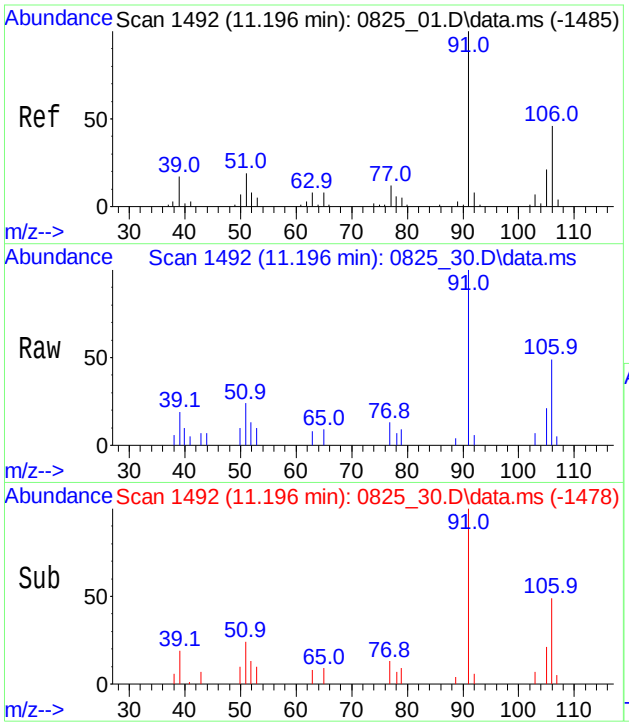


#18
Toluene
Conc: 8$ 0.301 ppbv
RT: 9.131 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 91 Resp: 7106

Ion	Ratio	Lower	Upper
91	100		
92	60.2	46.2	69.2
65	13.6	11.0	16.6

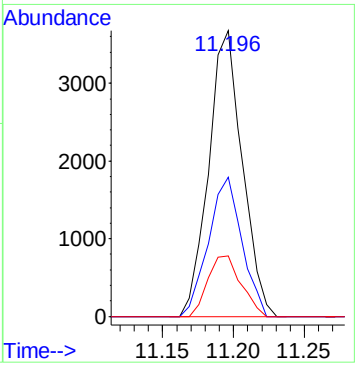


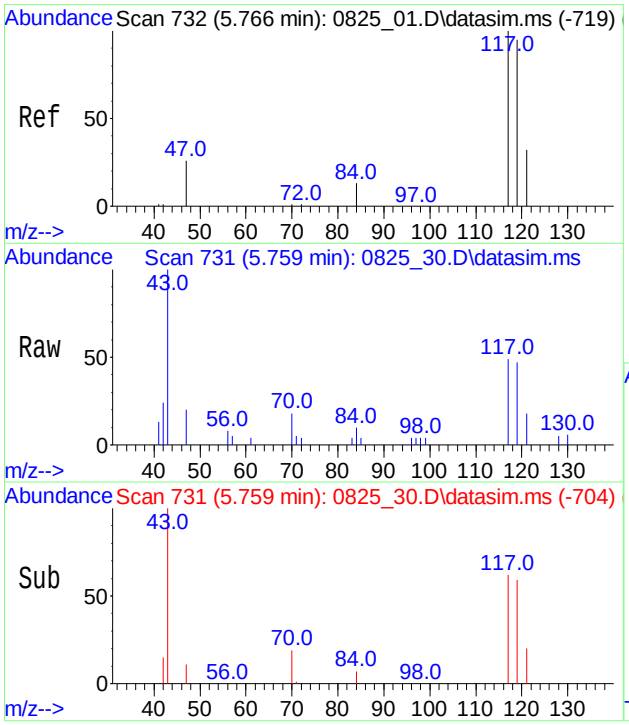


#23
m,p-Xylene
Conc: 8$ 0.238 ppbv
RT: 11.196 min Scan# 1492
Delta R.T. -0.005 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 91 Resp: 6045

Ion	Ratio	Lower	Upper
91	100		
106	48.4	39.3	58.9
105	21.0	17.8	26.6

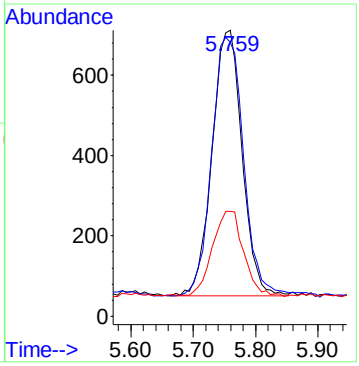


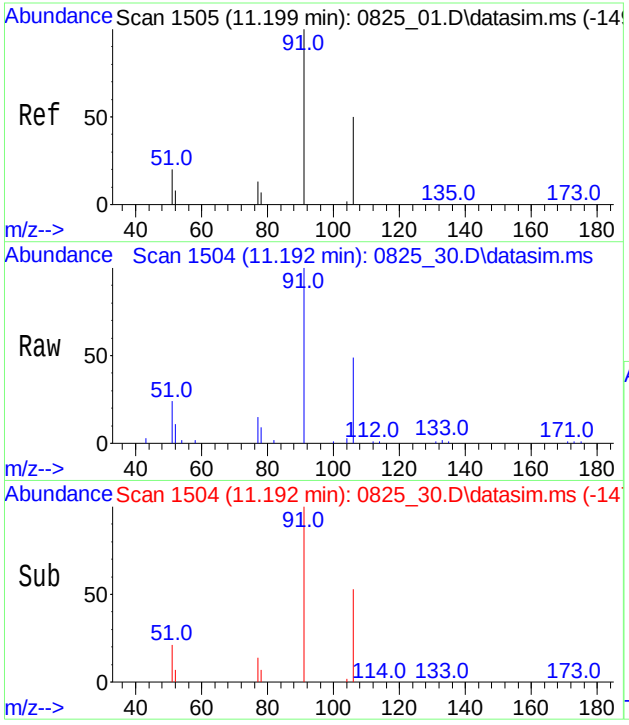


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.075 ppbv
RT: 5.759 min Scan# 731
Delta R.T. -0.005 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion:117 Resp: 2188

Ion	Ratio	Lower	Upper
117	100		
119	105.0	76.7	115.1
121	33.4	25.4	38.0

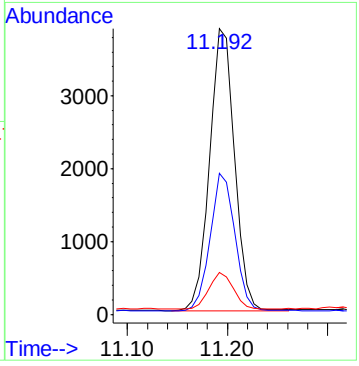




#48
m,p-Xylene(sim)
Conc: 8$ 0.268 ppbv
RT: 11.192 min Scan# 1504
Delta R.T. -0.009 min
Lab File: 0825_30.D
Acq: 26 Aug 2020 1:50 am

Tgt Ion: 91 Resp: 6684

Ion	Ratio	Lower	Upper
91	100		
106	48.2	44.2	54.0
77	12.8	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-2 (NW COLUMN Z4)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61560

Canister: 23330 Lab File ID: 0825_31.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.376		0.200	0.200	r
67-64-1	Acetone	5.73	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	6.00		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.253		0.050	0.050	r
108-88-3	Toluene	0.765		0.200	0.200	r
127-18-4	Tetrachloroethene	0.491		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene	0.396		0.150	0.150	r
95-47-6	o-Xylene	0.177		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.071		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_31.D
Acq On : 26 Aug 2020 2:30 am
Operator : Keith
Client ID : IA-2 (NW COLUMN Z4)
Lab ID : CG61560
ALS Vial : 200 Sample Multiplier: 1

Quant Time: Oct 13 15:44:04 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

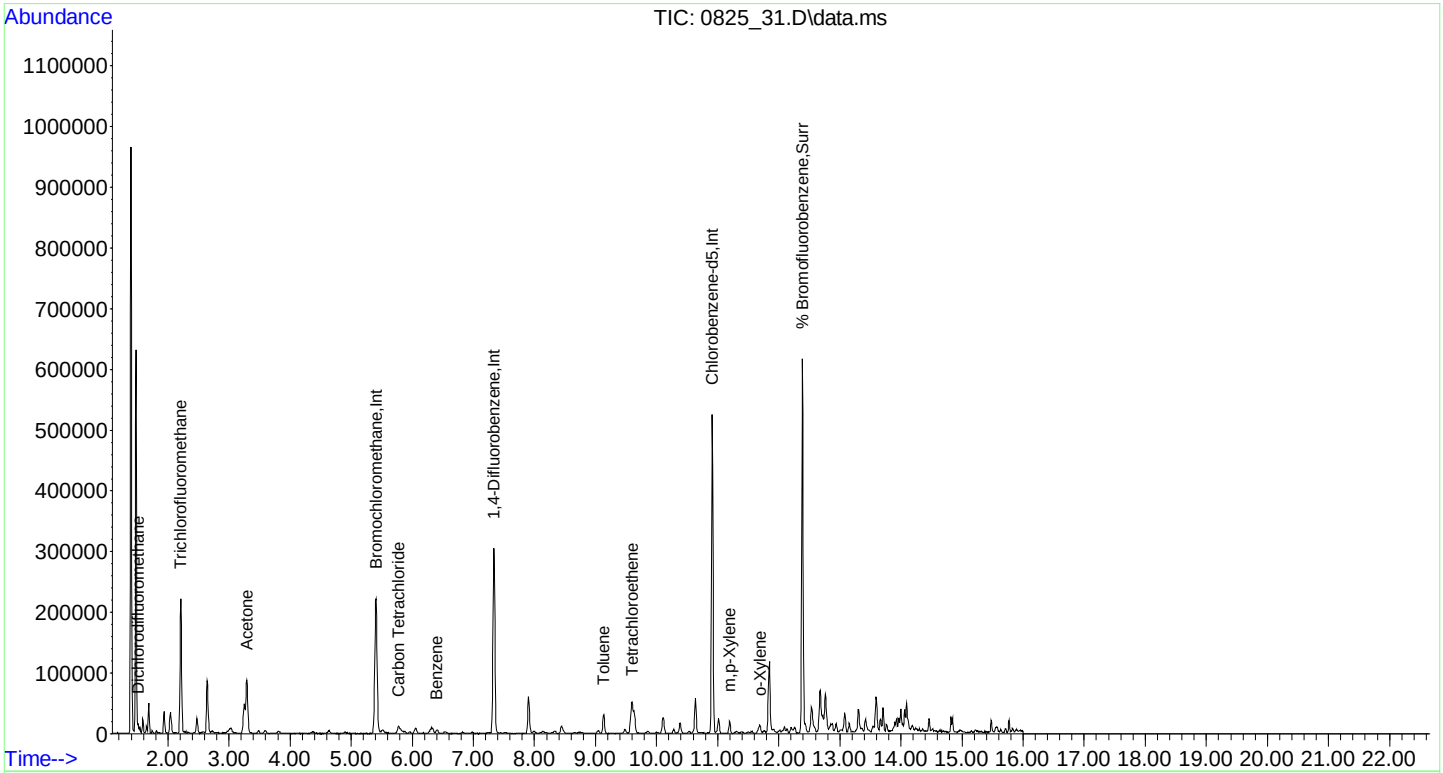
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	85239	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	260184	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	116967	10.000	ng		0.00
30) Bromochloromethane(sim)	5.410	130	94774	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	260184	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	116967	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	184430	10.111	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	5783	0.376	ppbv	#	98
4) Acetone	3.292	43	143721	5.726	ppbv	#	90
5) Trichlorofluoromethane	2.211	101	154762	5.996	ppbv		100
13) Benzene	6.400	78	4116	0.253	ppbv		92
14) Carbon Tetrachloride	5.775	117	2132	0.086	ppbv		93
18) Toluene	9.136	91	18688	0.765	ppbv		99
19) Tetrachloroethene	9.605	166	7450	0.491	ppbv		96
23) m,p-Xylene	11.194	91	10168	0.396	ppbv		99
24) o-Xylene	11.695	91	4922	0.176	ppbv		93
34] Carbon Tetrachloride(sim)	5.756	117	2126	0.071	ppbv		100
46] Tetrachloroethene(sim)	9.601	166	8405	0.614	ppbv		99
48] m,p-Xylene(sim)	11.197	91	11097	0.441	ppbv		99

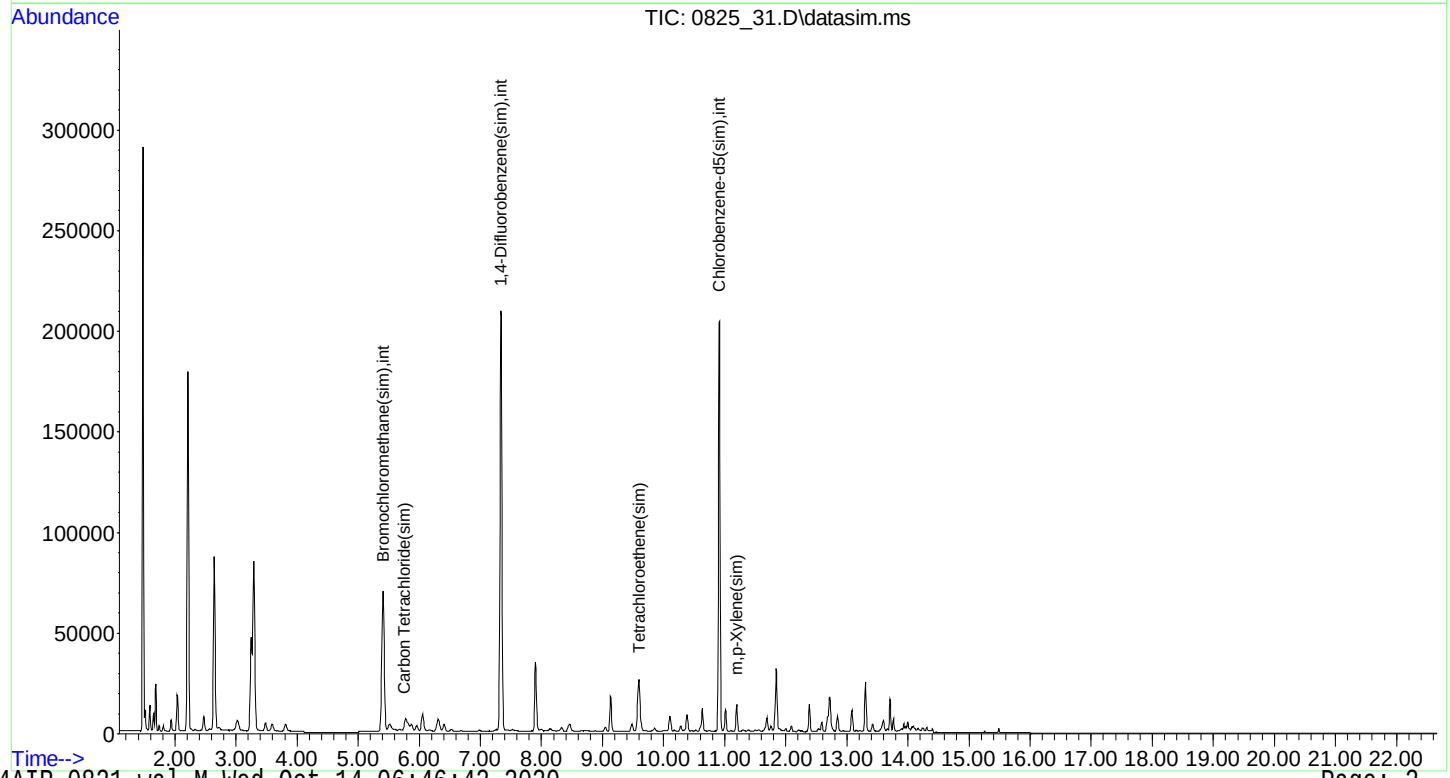
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

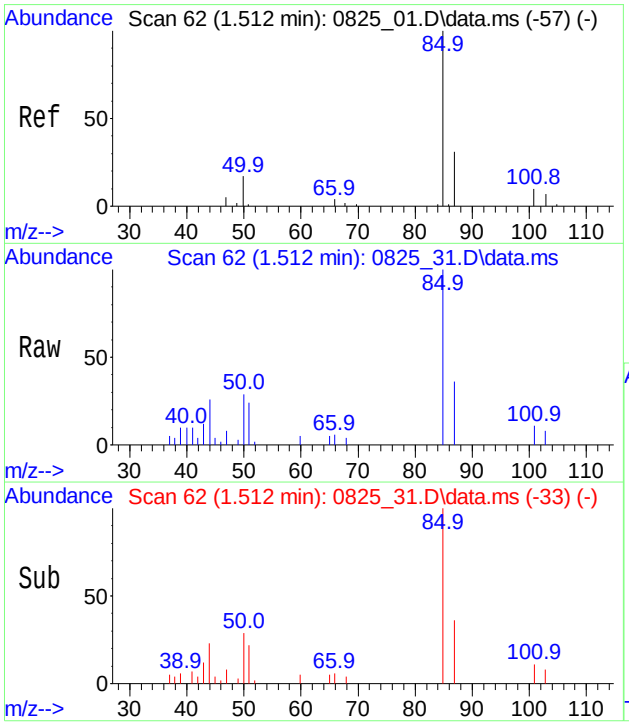
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_31.D
Acq On : 26 Aug 2020 2:30 am
Operator : Keith
Client ID : IA-2 (NW COLUMN Z4)
Lab ID : CG61560
ALS Vial : 200 Sample Multiplier: 1

Quant Time: Oct 13 15:44:04 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



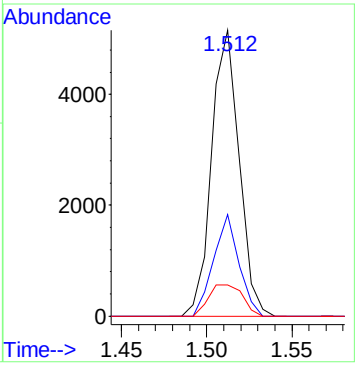


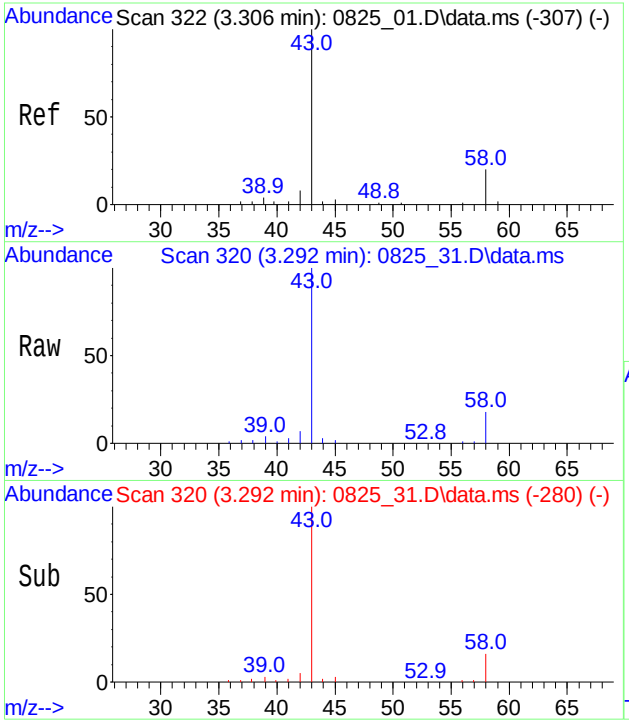


#2
Dichlorodifluoromethane
Conc: 8$ 0.376 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 85 Resp: 5783

Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.1	39.1
101	13.6	8.4	12.6#

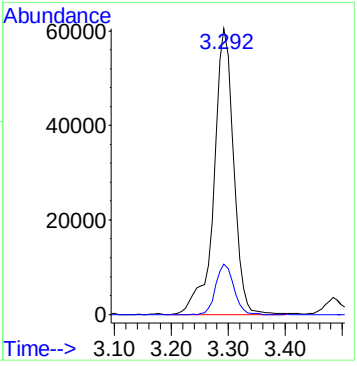


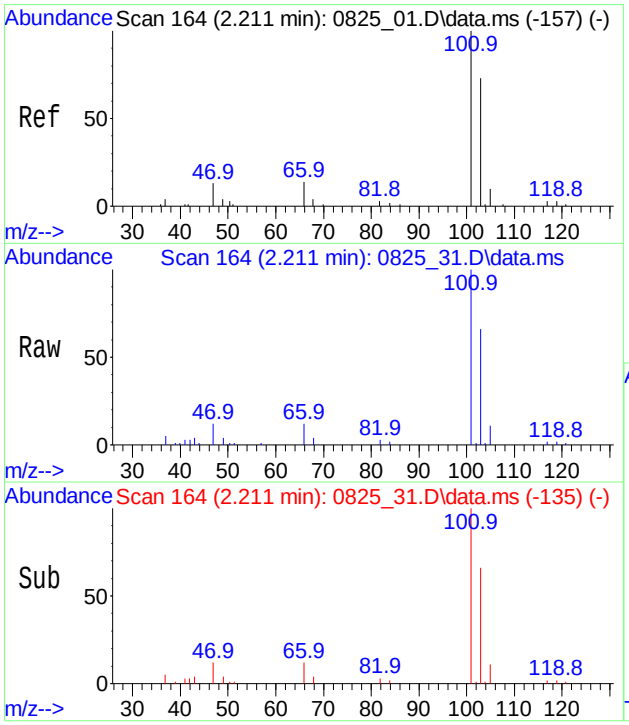


#4
Acetone
Conc: 8$ 5.726 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 43 Resp: 143721

Ion	Ratio	Lower	Upper
43	100		
58	16.0	16.7	25.1#

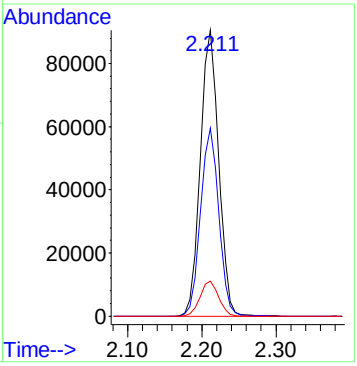


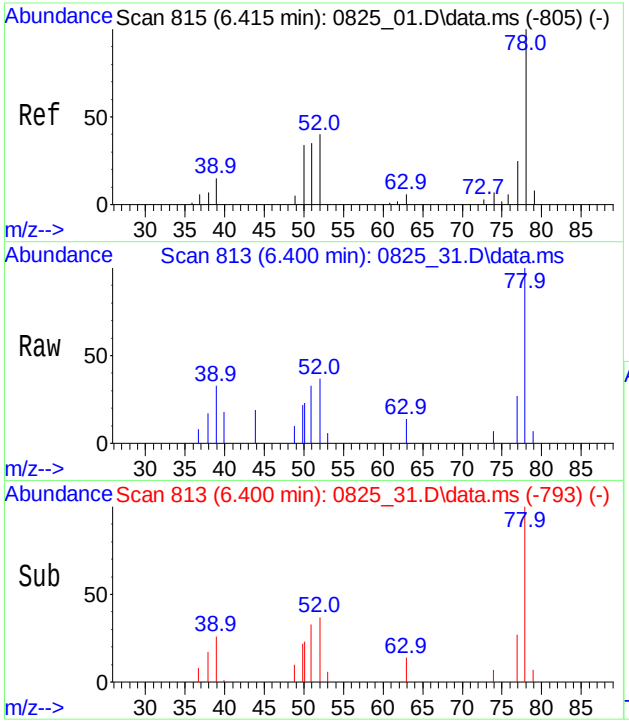


#5
Trichlorofluoromethane
Conc: 8$ 5.996 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion:101 Resp: 154762

Ion	Ratio	Lower	Upper
101	100		
103	65.3	52.1	78.1
66	12.4	9.8	14.6

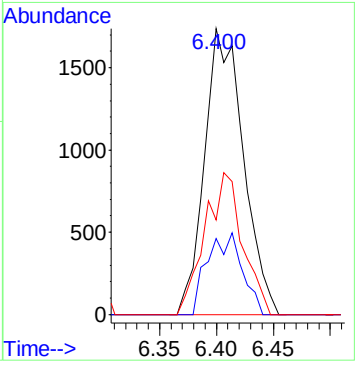


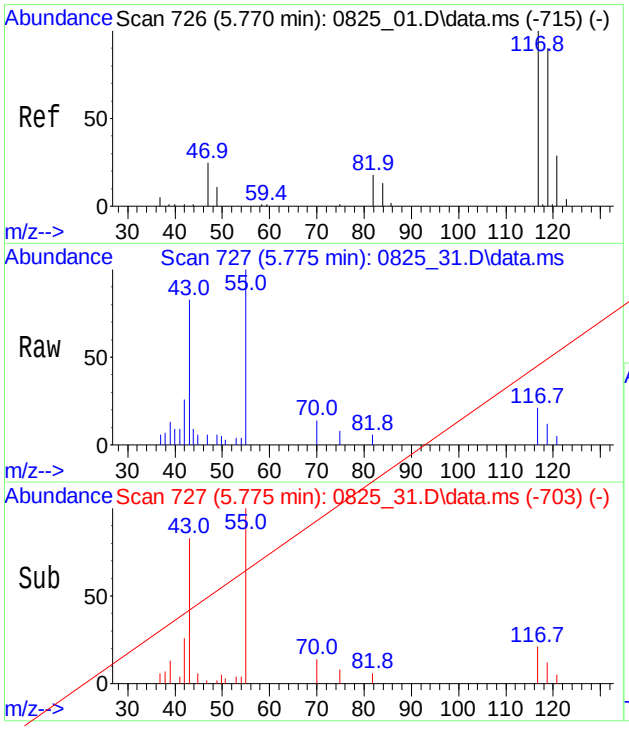


#13
Benzene
Conc: 8$ 0.253 ppbv
RT: 6.400 min Scan# 813
Delta R.T. -0.014 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 78 Resp: 4116

Ion	Ratio	Lower	Upper
78	100		
77	25.5	19.0	28.6
51	48.1	33.0	49.6

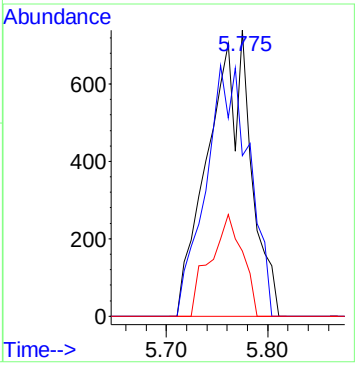


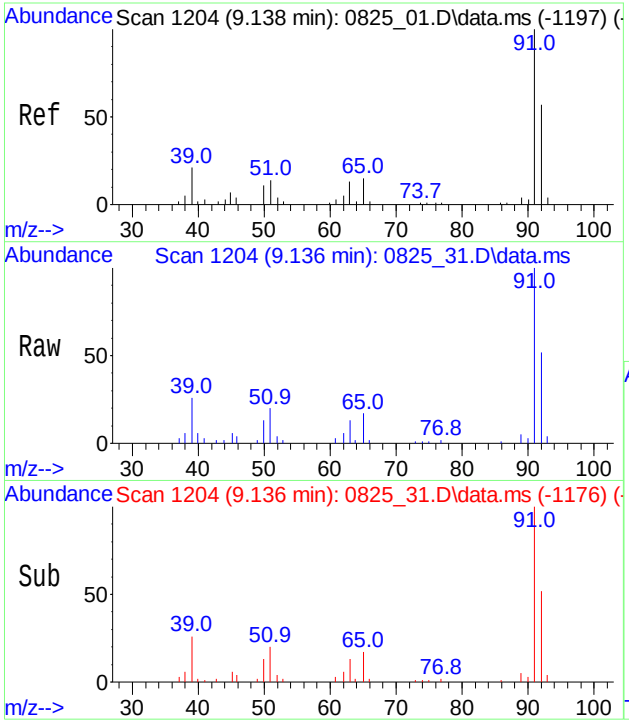


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.775 min Scan# 727
Delta R.T. 0.021 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion:117 Resp: 2132

Ion	Ratio	Lower	Upper
117	100		
119	90.1	76.4	116.4
121	27.4	11.9	51.9

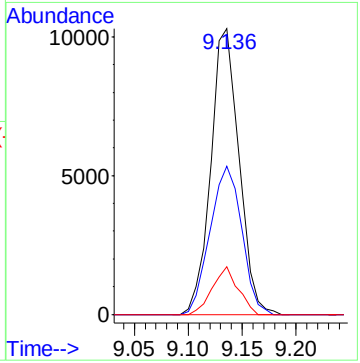


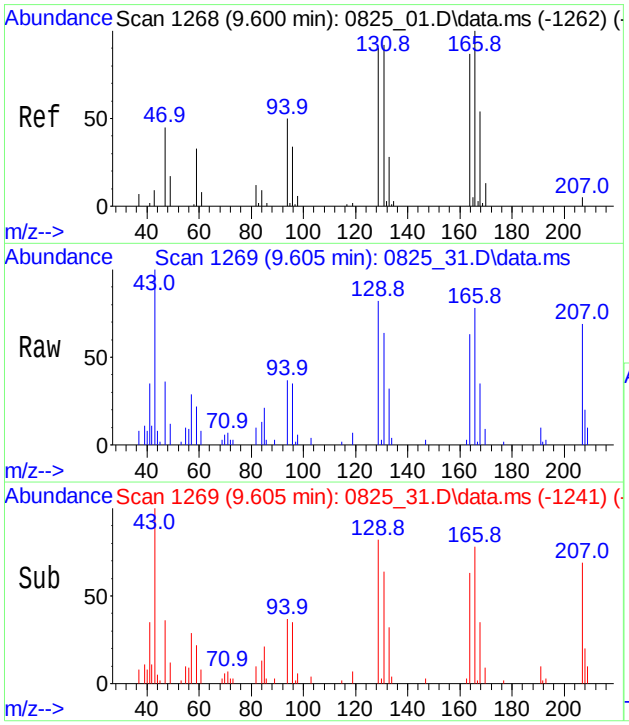


#18
Toluene
Conc: 8$ 0.765 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. -0.000 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 91 Resp: 18688

Ion	Ratio	Lower	Upper
91	100		
92	58.1	46.2	69.2
65	15.1	11.0	16.6

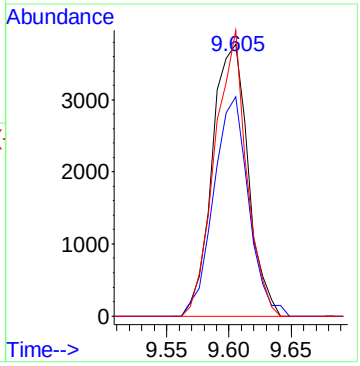


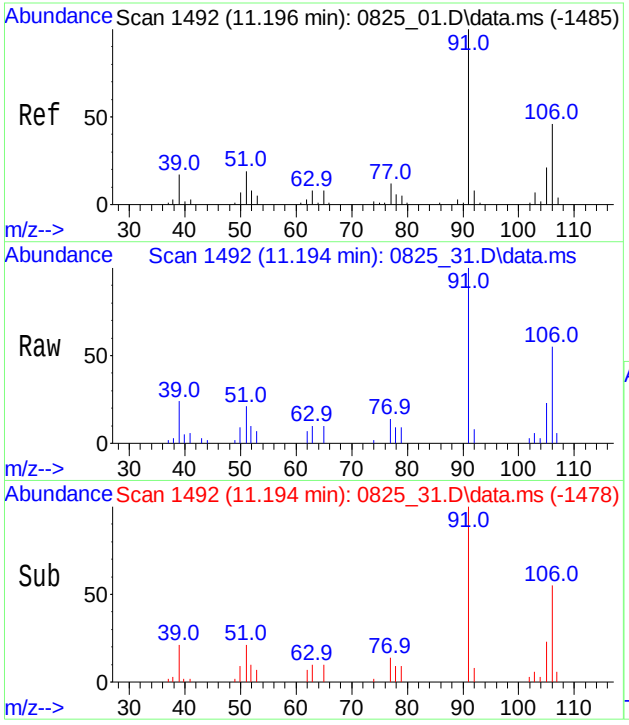


#19
Tetrachloroethene
Conc: 8$ 0.491 ppbv
RT: 9.605 min Scan# 1269
Delta R.T. 0.000 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion:166 Resp: 7450

Ion	Ratio	Lower	Upper
166	100		
164	78.6	62.4	93.6
129	92.9	69.8	104.8

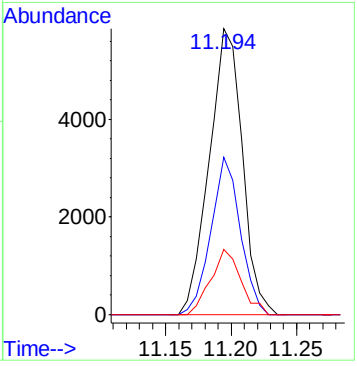


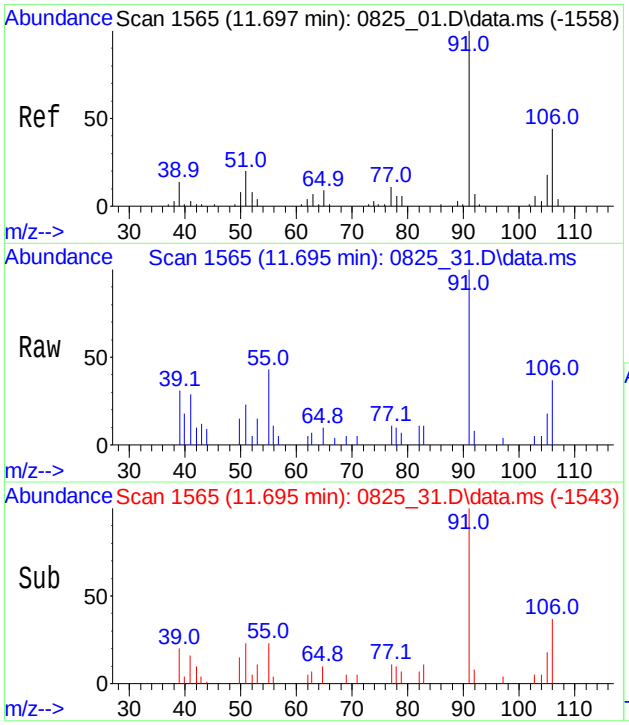


#23
m,p-Xylene
Conc: 8$ 0.396 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 91 Resp: 10168

Ion	Ratio	Lower	Upper
91	100		
106	48.7	39.3	58.9
105	20.8	17.8	26.6

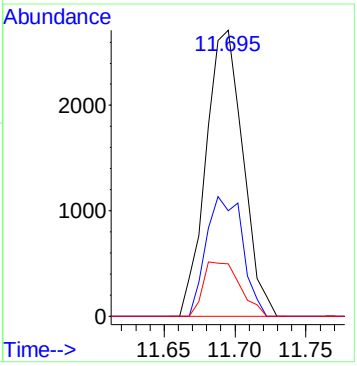


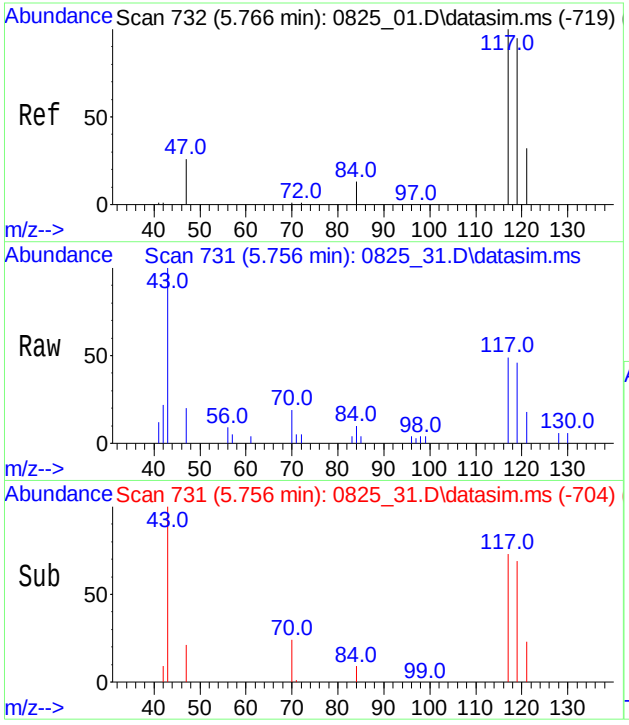


#24
o-Xylene
Conc: 8$ 0.176 ppbv
RT: 11.695 min Scan# 1565
Delta R.T. 0.000 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 91 Resp: 4922

Ion	Ratio	Lower	Upper
91	100		
106	41.1	38.0	57.0
105	18.7	15.0	22.6

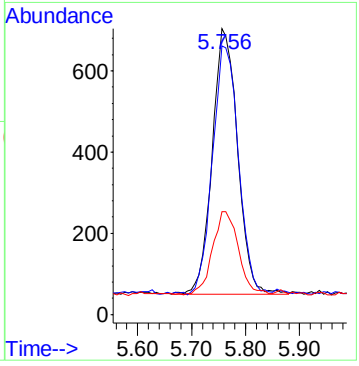


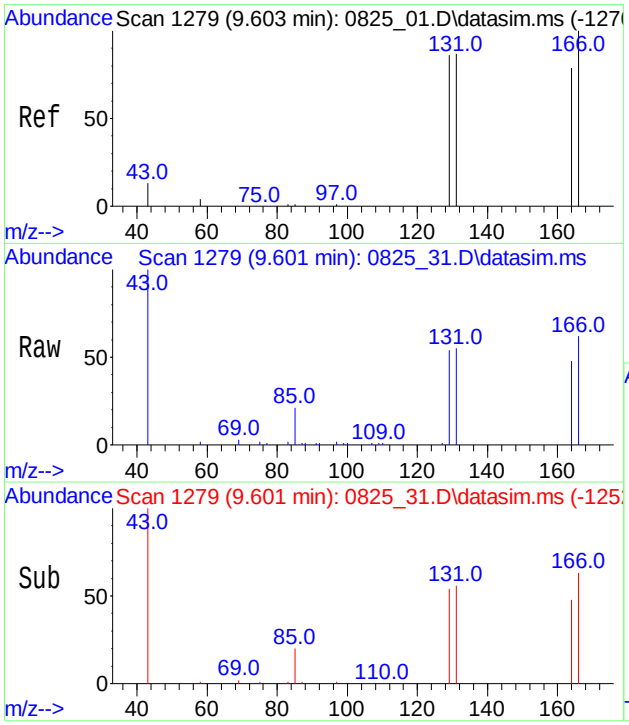


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.071 ppbv
RT: 5.756 min Scan# 731
Delta R.T. -0.008 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion:117 Resp: 2126

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.7	115.1
121	32.2	25.4	38.0

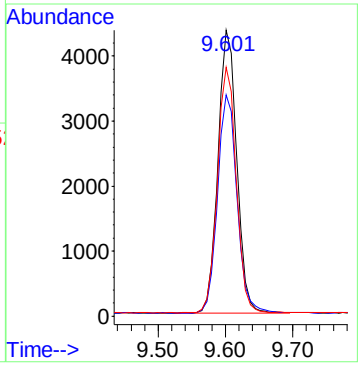


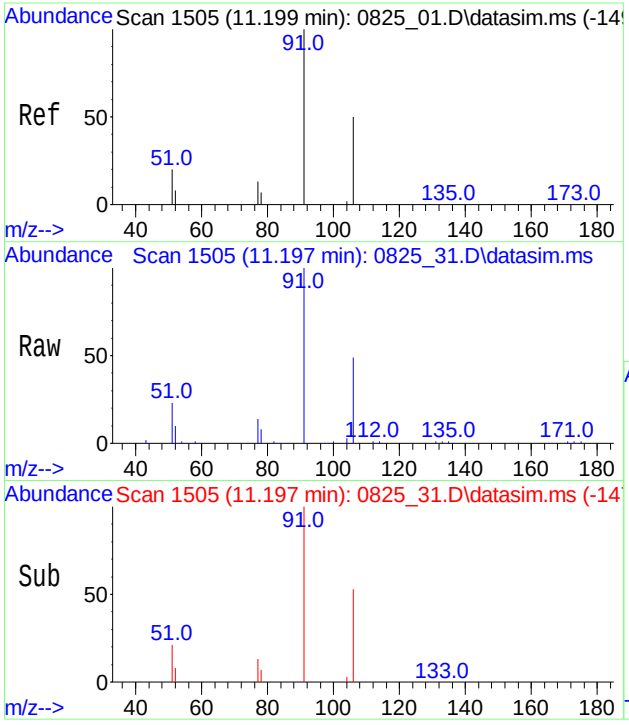


#46
Tetrachloroethene(sim)
Conc: 8$ 0.614 ppbv
RT: 9.601 min Scan# 1279
Delta R.T. -0.004 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion:166 Resp: 8405

Ion	Ratio	Lower	Upper
166	100		
164	79.8	58.0	98.0
129	86.7	67.3	107.3

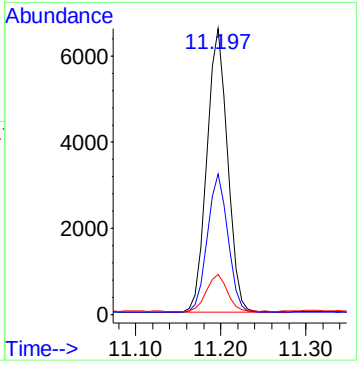




#48
m,p-Xylene(sim)
Conc: 8$ 0.441 ppbv
RT: 11.197 min Scan# 1505
Delta R.T. -0.004 min
Lab File: 0825_31.D
Acq: 26 Aug 2020 2:30 am

Tgt Ion: 91 Resp: 11097

Ion	Ratio	Lower	Upper
91	100		
106	48.4	44.2	54.0
77	12.9	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-3 (COLUMN G2)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61561

Canister: 9536 Lab File ID: 0826_07.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.401		0.200	0.200	r
67-64-1	Acetone	6.96	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.5		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.422		0.050	0.050	r
108-88-3	Toluene	1.39		0.200	0.200	r
127-18-4	Tetrachloroethene	0.620		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.431		0.150	0.150	r
179601-23-1	m,p-Xylene	0.949		0.150	0.150	r
95-47-6	o-Xylene	0.391		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.070		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037		0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_07.D
Acq On : 26 Aug 2020 11:19 am
Operator : Keith
Client ID : IA-3 (COLUMN G2)
Lab ID : CG61561
ALS Vial : 211 Sample Multiplier: 1

Quant Time: Oct 13 15:44:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

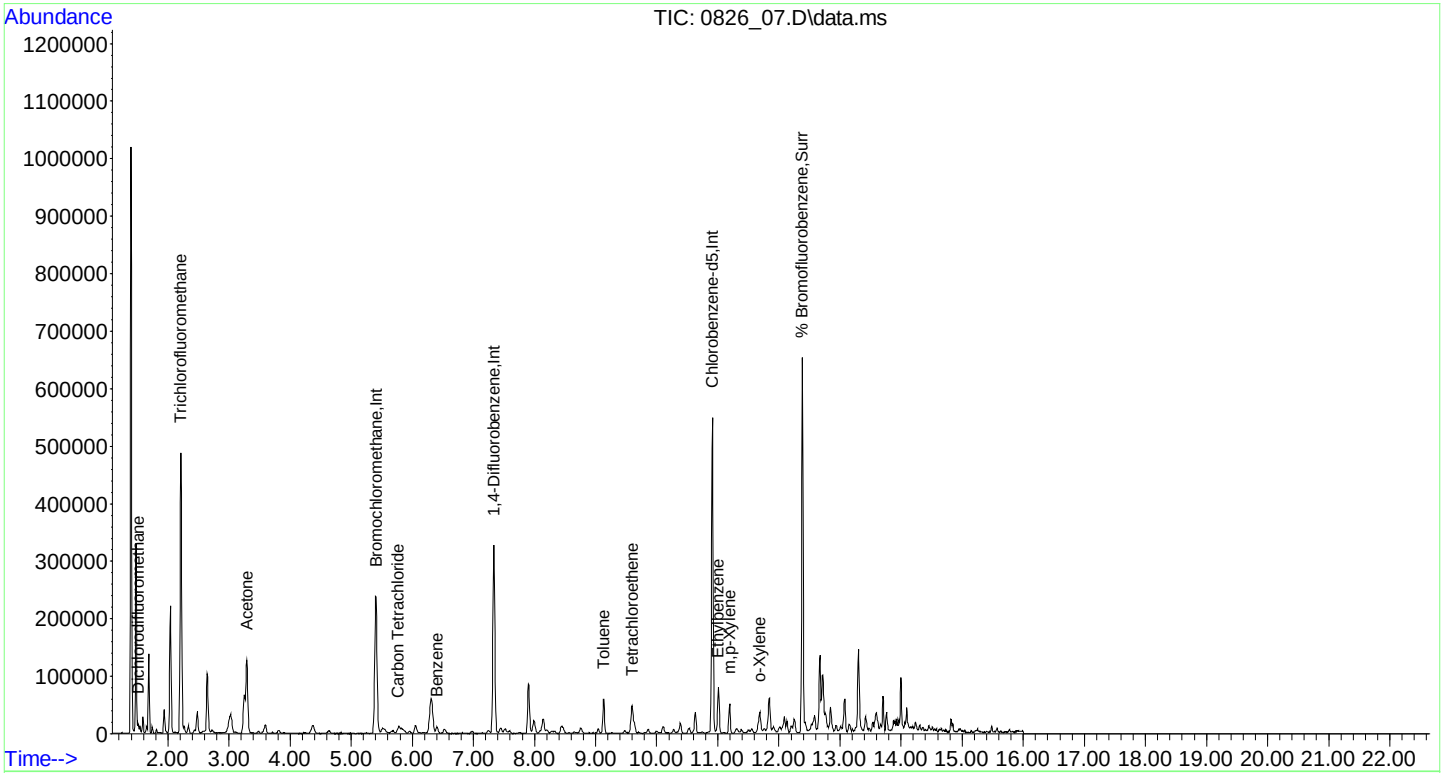
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	93693	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	281351	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	125426	10.000	ng		0.00
30) Bromochloromethane(sim)	5.403	130	102967	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	281351	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	125426	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.381	95	196320	10.037	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	6788	0.401	ppbv		96
4) Acetone	3.292	43	191896	6.955	ppbv		93
5) Trichlorofluoromethane	2.211	101	326153	11.496	ppbv		99
13) Benzene	6.407	78	7559	0.422	ppbv	#	88
14) Carbon Tetrachloride	5.768	117	2201	0.080	ppbv		88
18) Toluene	9.129	91	36690	1.389	ppbv		98
19) Tetrachloroethene	9.598	166	10167	0.620	ppbv		97
22) Ethylbenzene	11.009	91	15553	0.431	ppbv		97
23) m,p-Xylene	11.194	91	26139	0.949	ppbv		98
24) o-Xylene	11.688	91	11706	0.391	ppbv		99
34] Carbon Tetrachloride(sim)	5.764	117	2247	0.069	ppbv		99
44] Trichloroethene(sim)	7.266	130	509	0.037	ppbv		96
46] Tetrachloroethene(sim)	9.601	166	10932	0.739	ppbv		100
48] m,p-Xylene(sim)	11.190	91	29008	1.074	ppbv		99

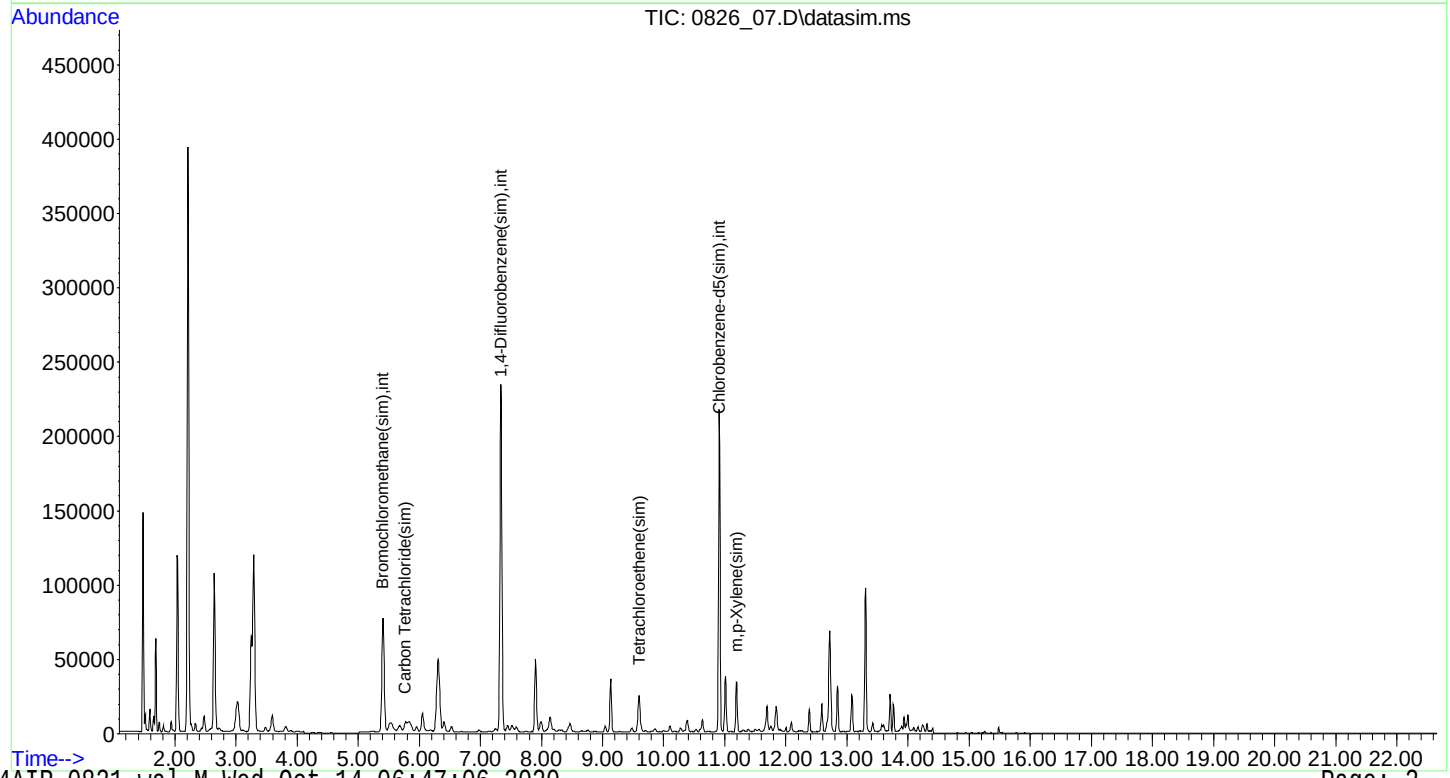
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

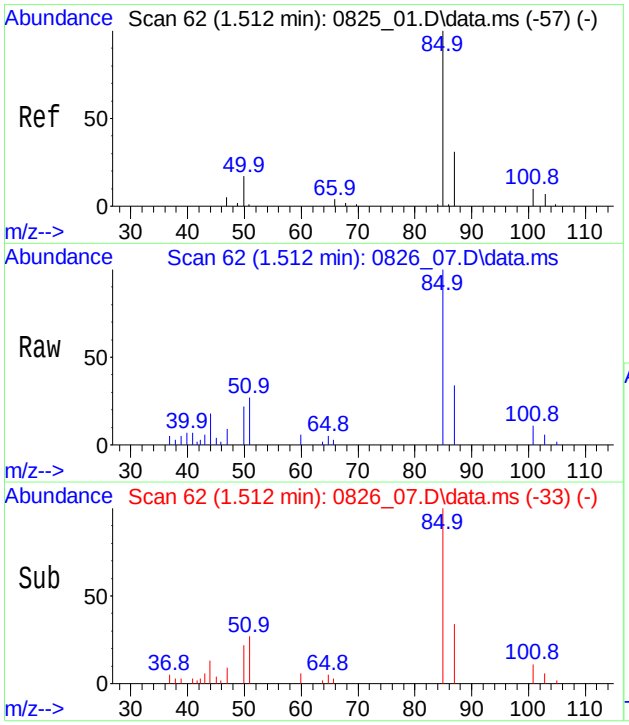
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_07.D
Acq On : 26 Aug 2020 11:19 am
Operator : Keith
Client ID : IA-3 (COLUMN G2)
Lab ID : CG61561
ALS Vial : 211 Sample Multiplier: 1

Quant Time: Oct 13 15:44:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



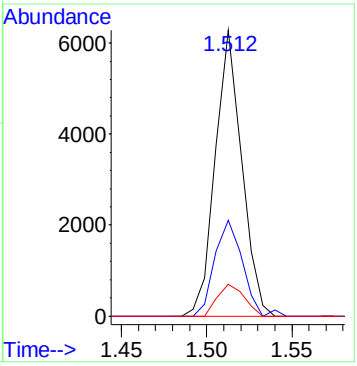


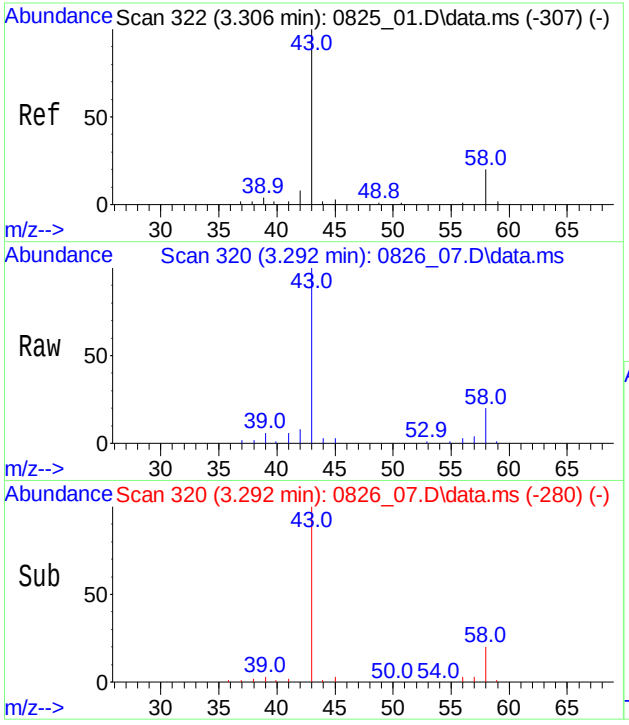


#2
Dichlorodifluoromethane
Conc: 8$ 0.401 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 85 Resp: 6788

Ion	Ratio	Lower	Upper
85	100		
87	35.3	26.1	39.1
101	11.3	8.4	12.6

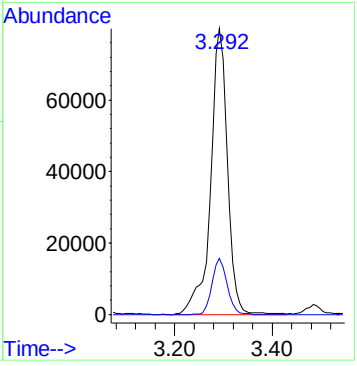


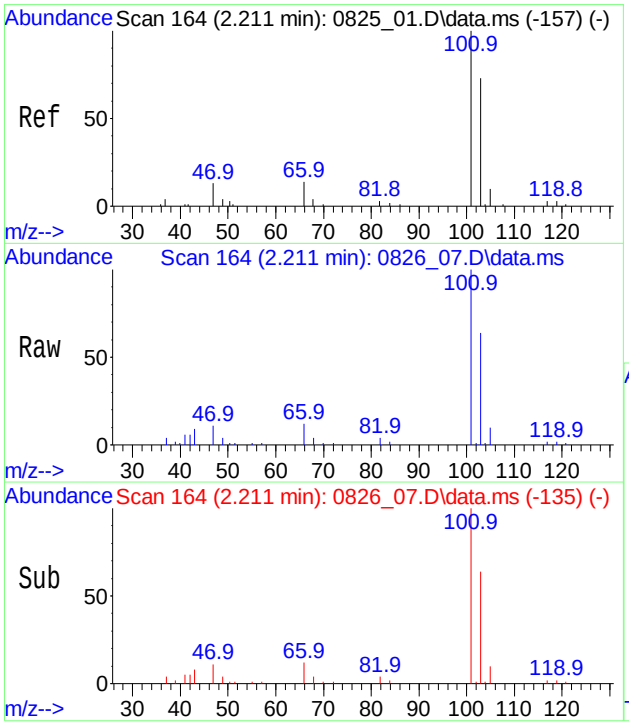


#4
Acetone
Conc: 8$ 6.955 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 43 Resp: 191896

Ion	Ratio	Lower	Upper
43	100		
58	17.5	16.7	25.1

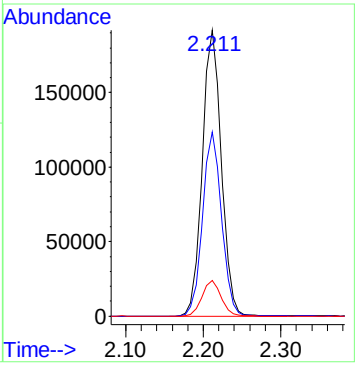


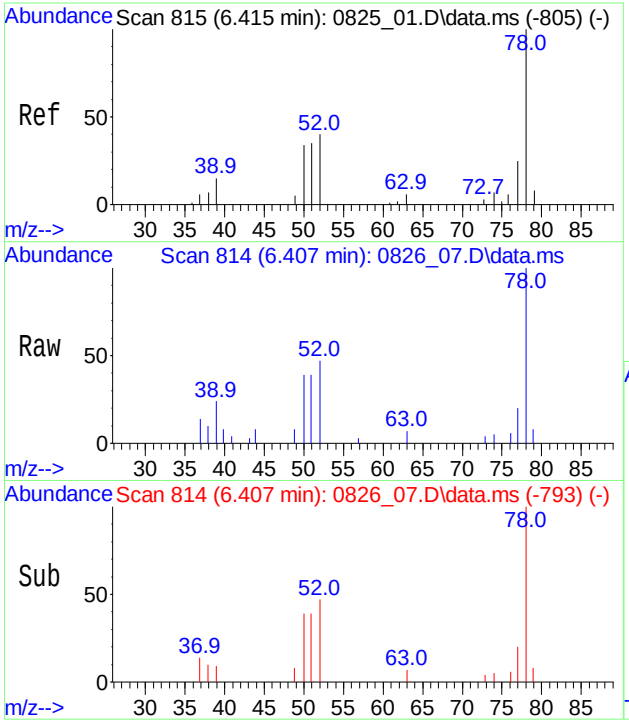


#5
Trichlorofluoromethane
Conc: 8$ 11.496 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:101 Resp: 326153

Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.1	78.1
66	12.5	9.8	14.6

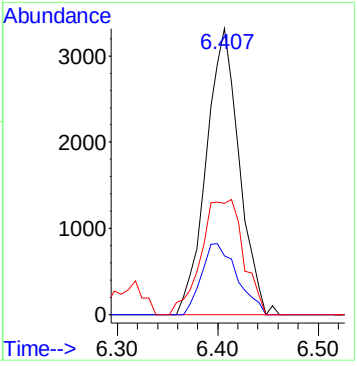


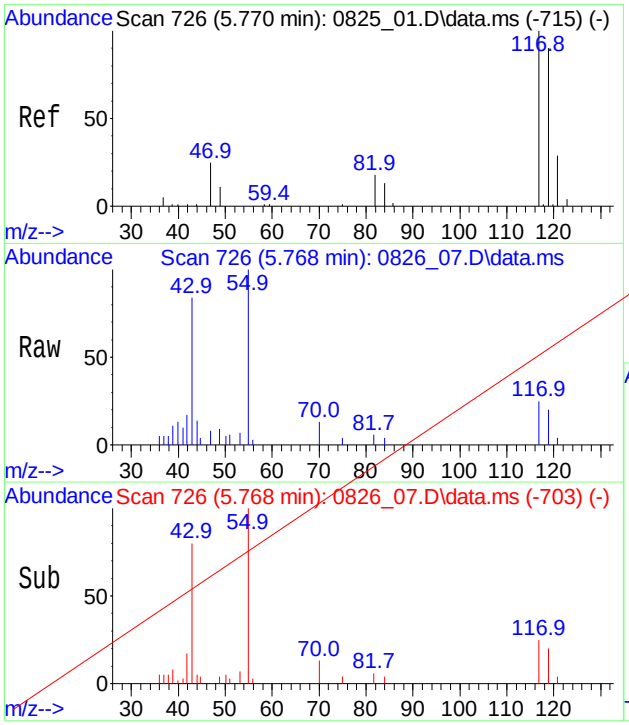


#13
Benzene
Conc: 8$ 0.422 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 78 Resp: 7559

Ion	Ratio	Lower	Upper
78	100		
77	26.6	19.0	28.6
51	51.0	33.0	49.6#

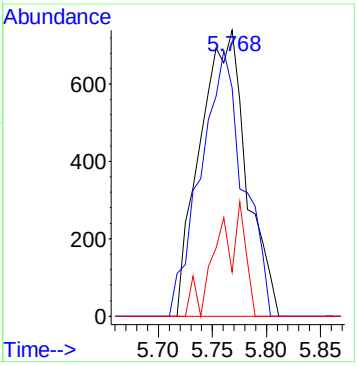


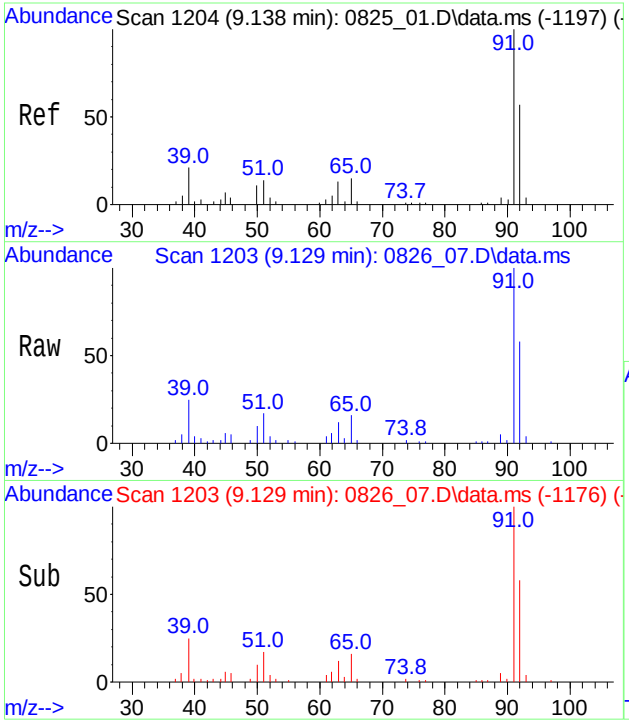


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.768 min Scan# 726
Delta R.T. 0.014 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:117 Resp: 2201

Ion	Ratio	Lower	Upper
117	100		
119	85.9	76.4	116.4
121	23.9	11.9	51.9

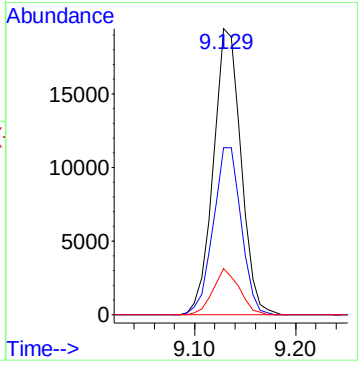


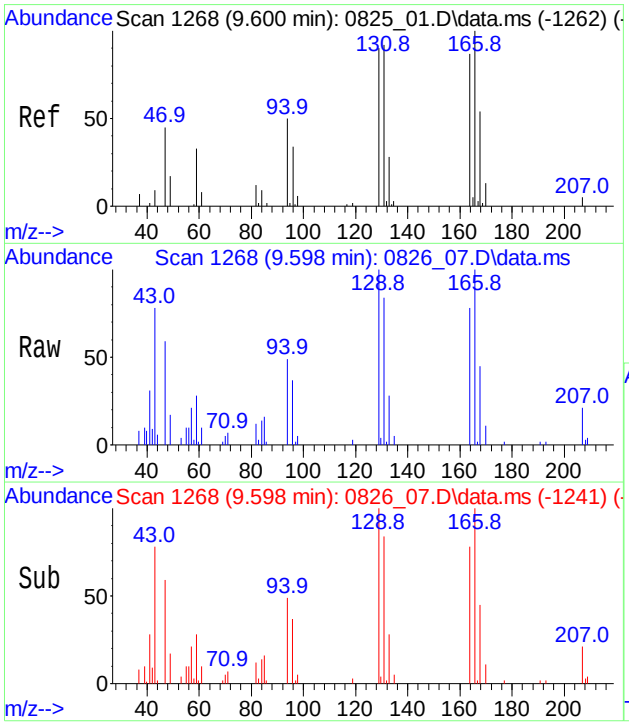


#18
Toluene
Conc: 8$ 1.389 ppbv
RT: 9.129 min Scan# 1203
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 36690

Ion	Ratio	Lower	Upper
91	100		
92	59.1	46.2	69.2
65	15.1	11.0	16.6

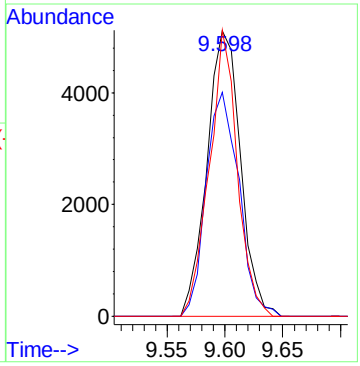


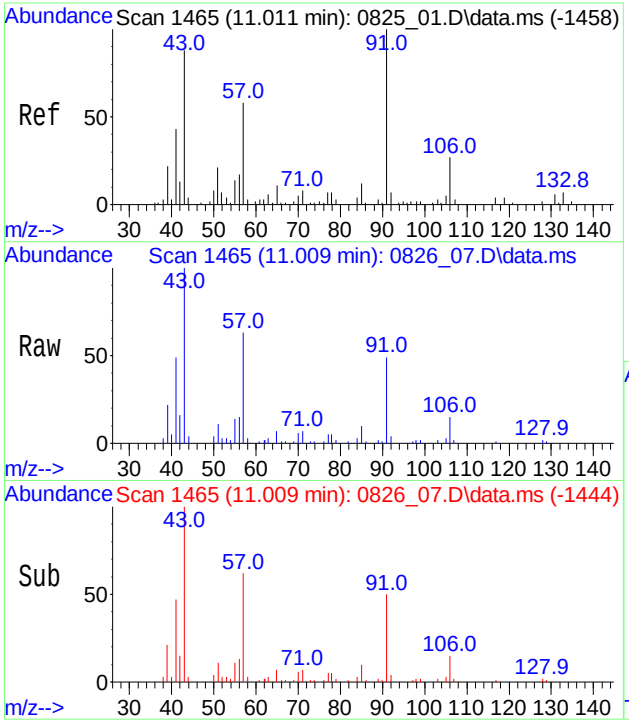


#19
Tetrachloroethene
Conc: 8$ 0.620 ppbv
RT: 9.598 min Scan# 1268
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:166 Resp: 10167

Ion	Ratio	Lower	Upper
166	100		
164	76.7	62.4	93.6
129	83.4	69.8	104.8

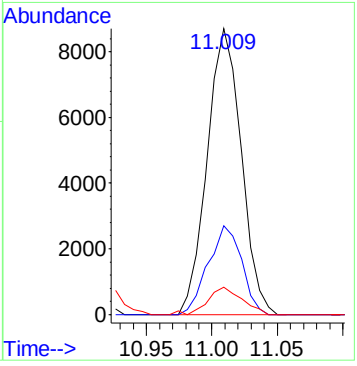


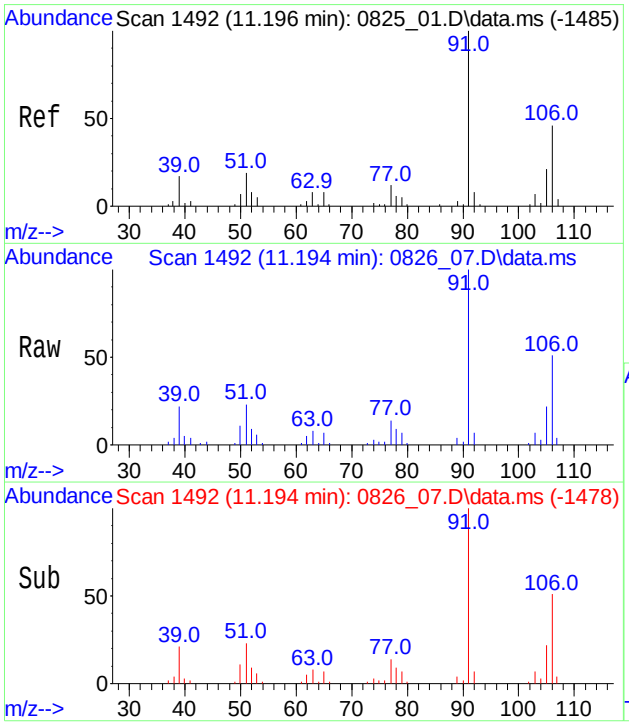


#22
Ethylbenzene
Conc: 8$ 0.431 ppbv
RT: 11.009 min Scan# 1465
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 15553

Ion	Ratio	Lower	Upper
91	100		
106	30.5	12.2	52.2
77	9.6	0.0	28.6

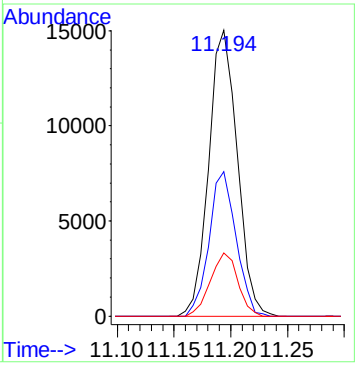


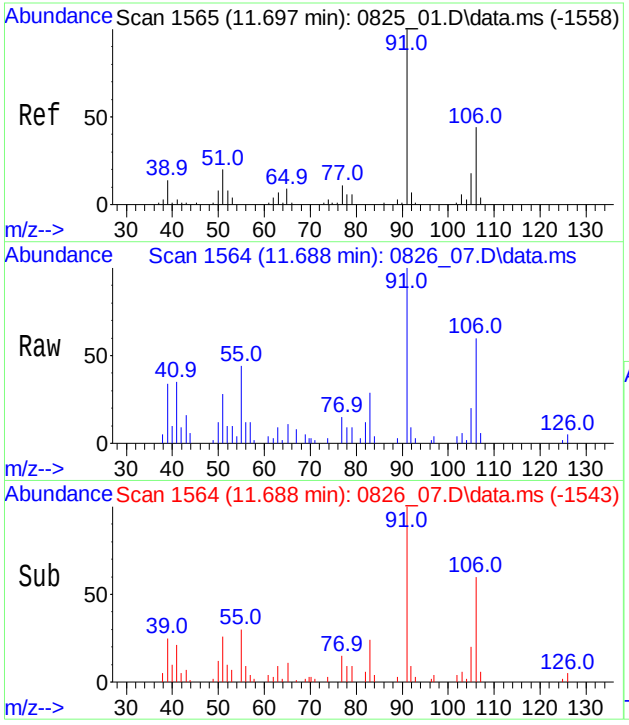


#23
m,p-Xylene
Conc: 8$ 0.949 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 26139

Ion	Ratio	Lower	Upper
91	100		
106	47.7	39.3	58.9
105	21.2	17.8	26.6

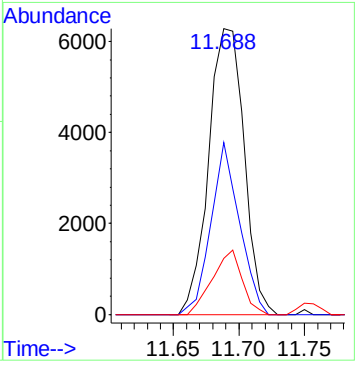


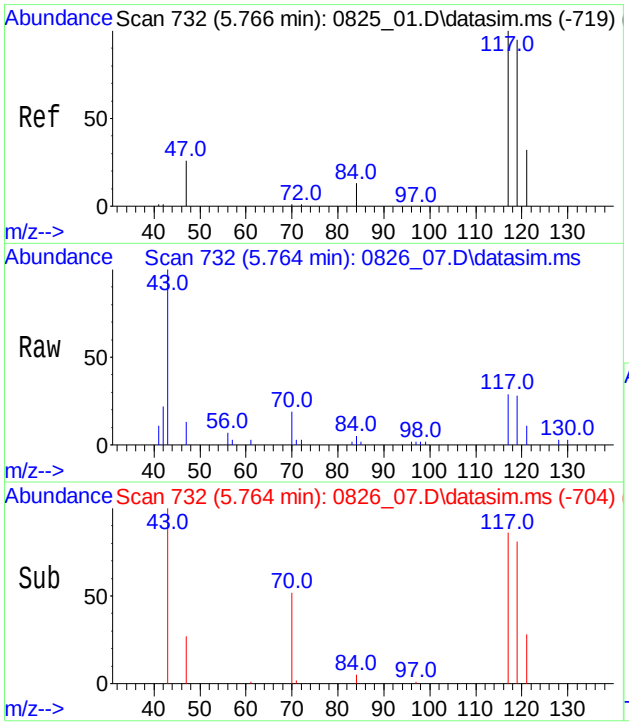


#24
o-Xylene
Conc: 8$ 0.391 ppbv
RT: 11.688 min Scan# 1564
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 11706

Ion	Ratio	Lower	Upper
91	100		
106	48.4	38.0	57.0
105	19.0	15.0	22.6

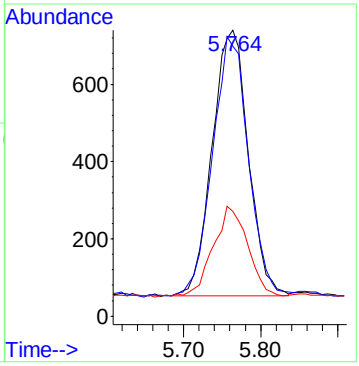


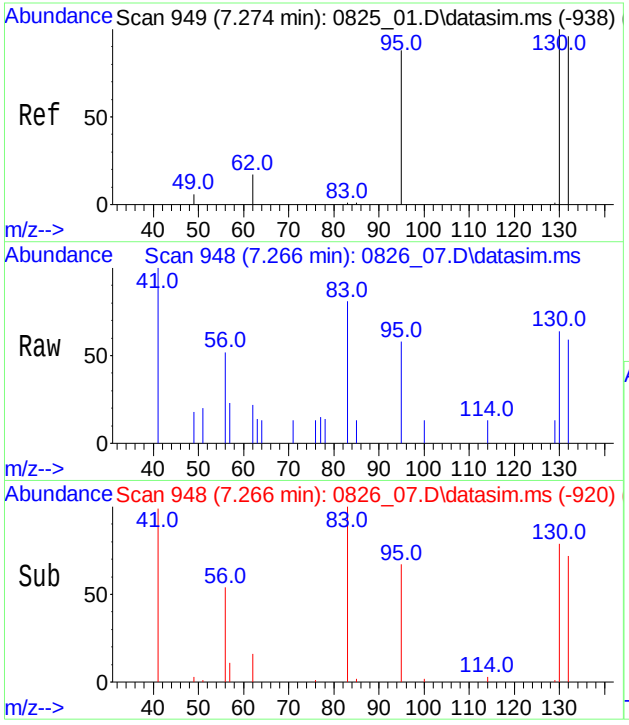


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.069 ppbv
RT: 5.764 min Scan# 732
Delta R.T. -0.000 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:117 Resp: 2247

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.7	115.1
121	31.6	25.4	38.0

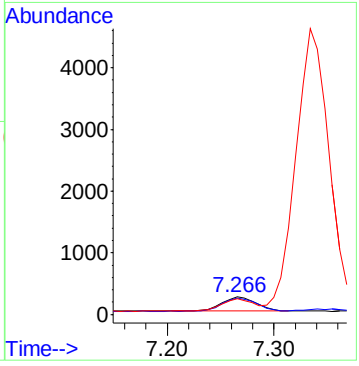


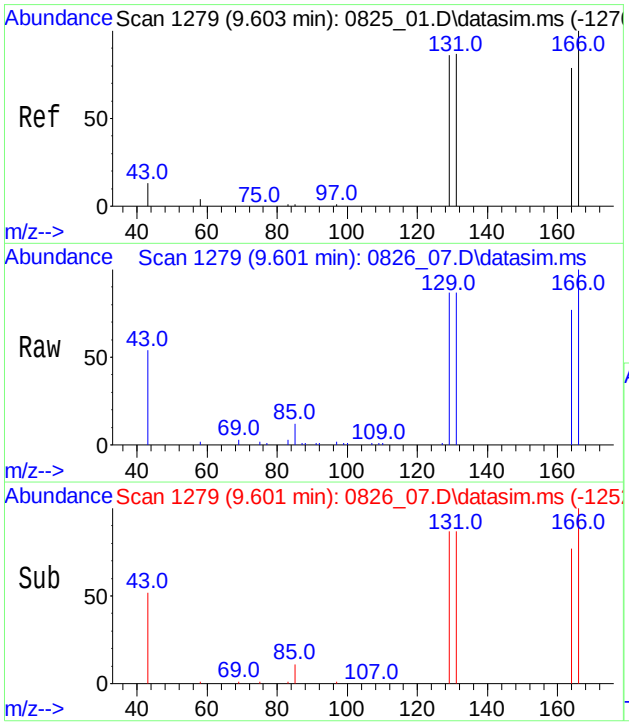


#44
Trichloroethene(sim)
Conc: 8$ 0.037 ppbv
RT: 7.266 min Scan# 948
Delta R.T. -0.011 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:130 Resp: 509

Ion	Ratio	Lower	Upper
130	100		
132	95.7	77.1	115.7
95	82.3	71.7	107.5

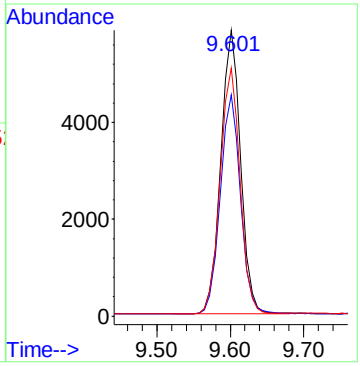


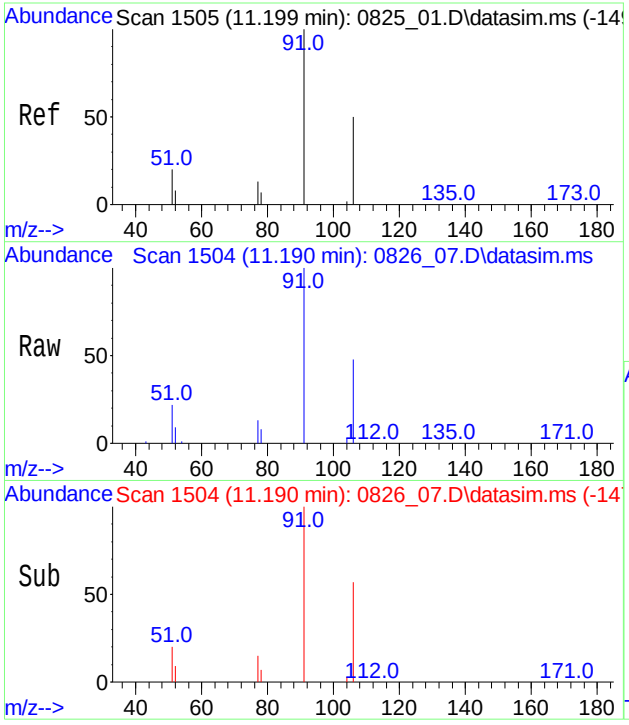


#46
Tetrachloroethene(sim)
Conc: 8$ 0.739 ppbv
RT: 9.601 min Scan# 1279
Delta R.T. -0.004 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:166 Resp: 10932

Ion	Ratio	Lower	Upper
166	100		
164	78.7	58.0	98.0
129	87.3	67.3	107.3

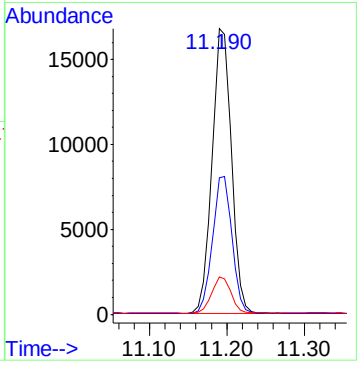




#48
m,p-Xylene(sim)
Conc: 8$ 1.074 ppbv
RT: 11.190 min Scan# 1504
Delta R.T. -0.011 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 29008

Ion	Ratio	Lower	Upper
91	100		
106	48.6	44.2	54.0
77	12.7	10.2	15.2



1

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-6 (COLUMN B16)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61562

Canister: 28582 Lab File ID: 0826_09.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.405		0.200	0.200	r
67-64-1	Acetone	8.95	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	10.2		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.208		0.050	0.050	r
108-88-3	Toluene	0.302		0.200	0.200	r
127-18-4	Tetrachloroethene	0.364		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene	0.425		0.150	0.150	r
95-47-6	o-Xylene	0.289		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.071		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_09.D
Acq On : 26 Aug 2020 12:41 pm
Operator : Keith
Client ID : IA-6 (COLUMN B16)
Lab ID : CG61562
ALS Vial : 213 Sample Multiplier: 1

Quant Time: Oct 13 15:44:40 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

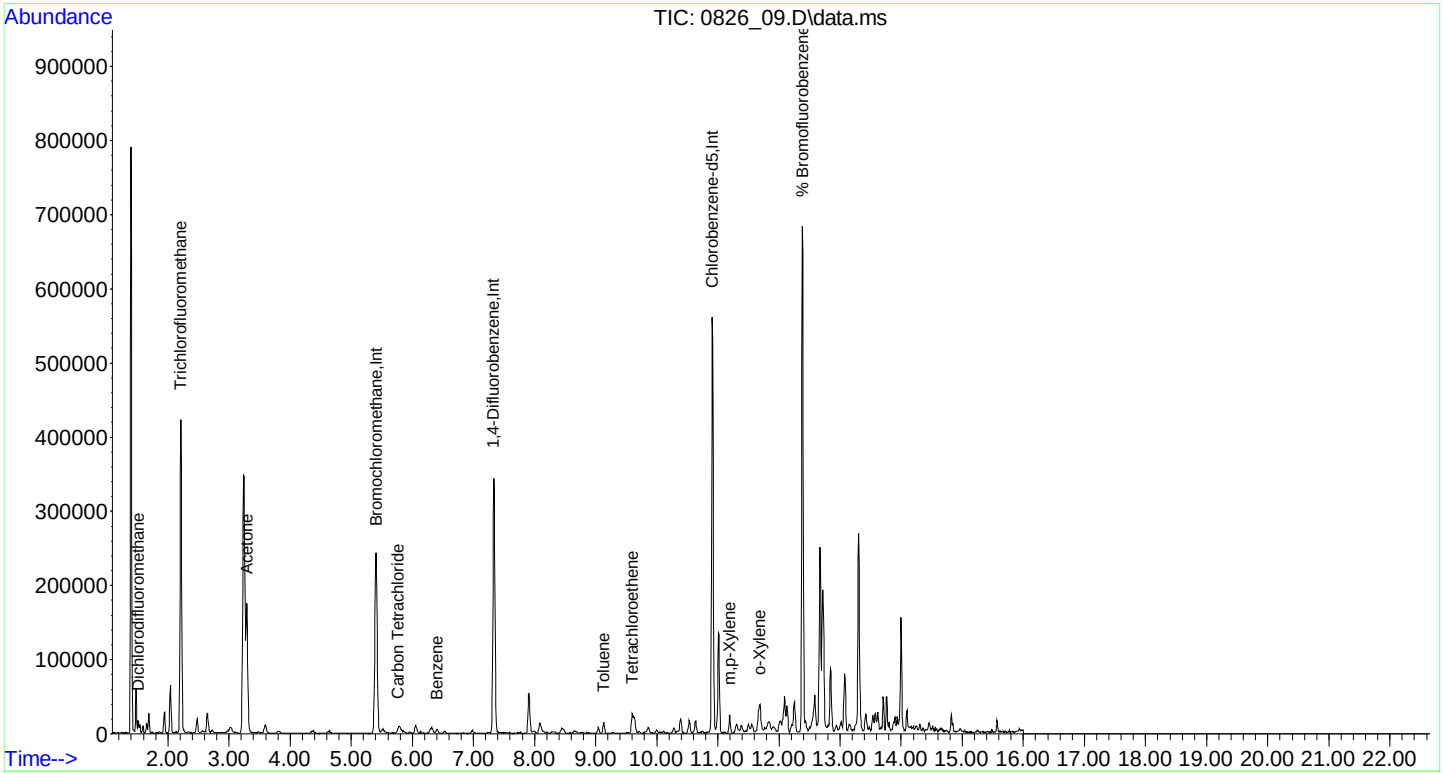
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	97673	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.333	114	297218	10.000	ng		0.00
20) Chlorobenzene-d5	10.908	82	133259	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	106457	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.333	114	297218	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.908	82	133259	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.383	95	205195	9.874	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.513	85	7153	0.405	ppbv		95
4) Acetone	3.292	43	257460	8.951	ppbv		96
5) Trichlorofluoromethane	2.211	101	300885	10.173	ppbv		100
13) Benzene	6.402	78	3875	0.208	ppbv#		87
14) Carbon Tetrachloride	5.763	117	2106	0.074	ppbv#		17
18) Toluene	9.131	91	8432	0.302	ppbv		96
19) Tetrachloroethene	9.600	166	6301	0.364	ppbv		97
23) m,p-Xylene	11.189	91	12434	0.425	ppbv		95
24) o-Xylene	11.690	91	9176	0.289	ppbv		99
34] Carbon Tetrachloride(sim)	5.766	117	2363	0.071	ppbv		97
46] Tetrachloroethene(sim)	9.603	166	7048	0.451	ppbv		99
48] m,p-Xylene(sim)	11.192	91	14222	0.496	ppbv		100

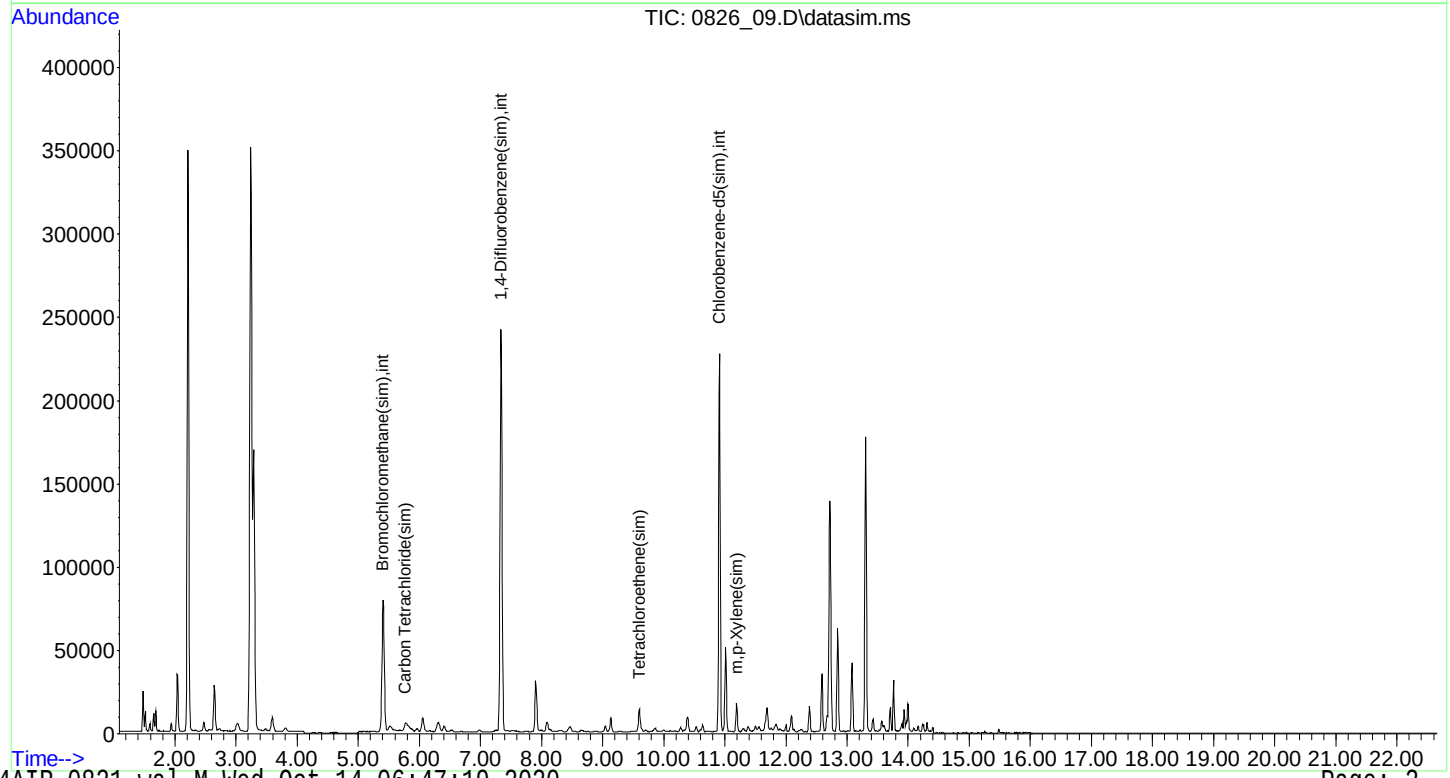
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

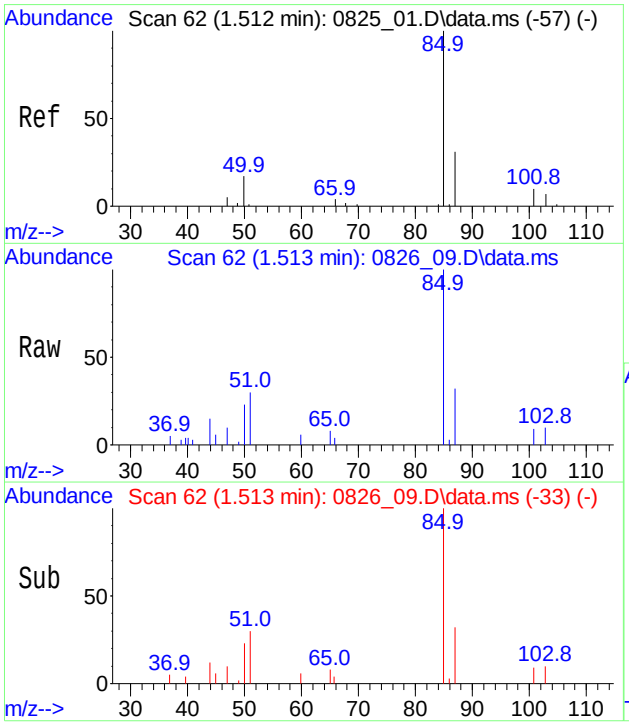
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_09.D
Acq On : 26 Aug 2020 12:41 pm
Operator : Keith
Client ID : IA-6 (COLUMN B16)
Lab ID : CG61562
ALS Vial : 213 Sample Multiplier: 1

Quant Time: Oct 13 15:44:40 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



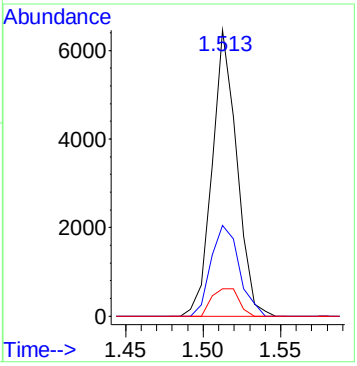


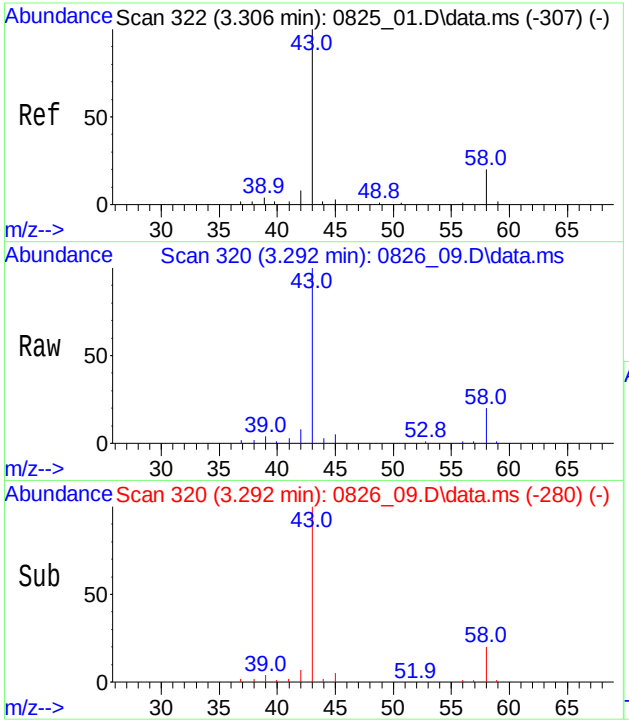


#2
Dichlorodifluoromethane
Conc: 8$ 0.405 ppbv
RT: 1.513 min Scan# 62
Delta R.T. -0.000 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 85 Resp: 7153

Ion	Ratio	Lower	Upper
85	100		
87	36.2	26.1	39.1
101	10.7	8.4	12.6

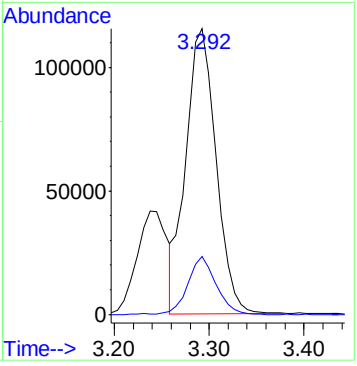


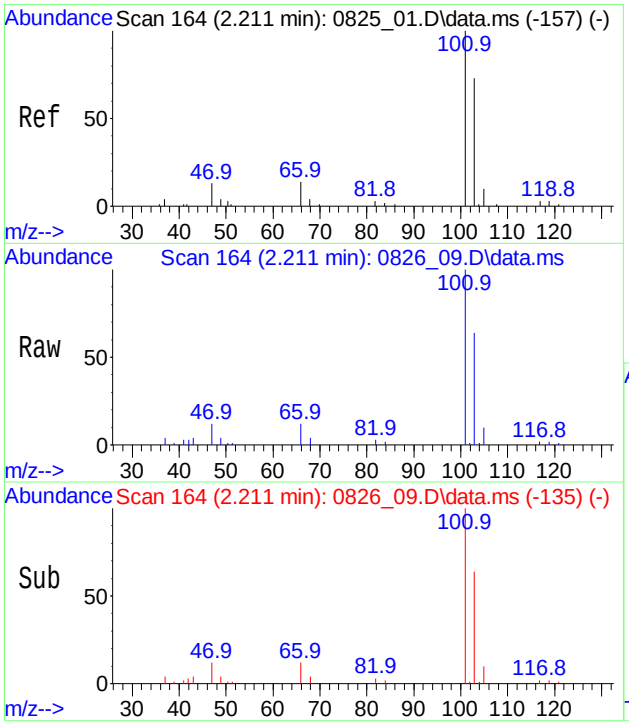


#4
Acetone
Conc: 8$ 8.951 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 43 Resp: 257460

Ion	Ratio	Lower	Upper
43	100		
58	18.9	16.7	25.1

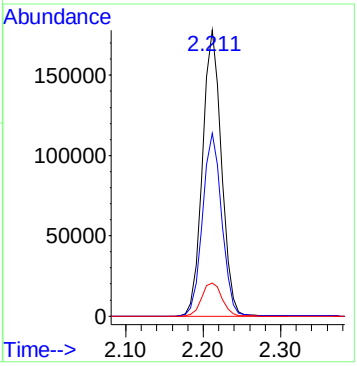


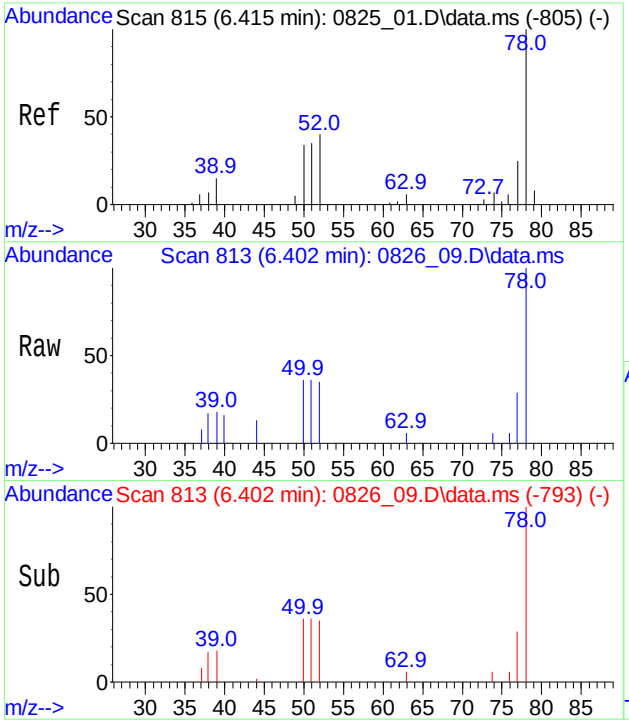


#5
Trichlorofluoromethane
Conc: 8$ 10.173 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion:101 Resp: 300885

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.1	78.1
66	12.4	9.8	14.6

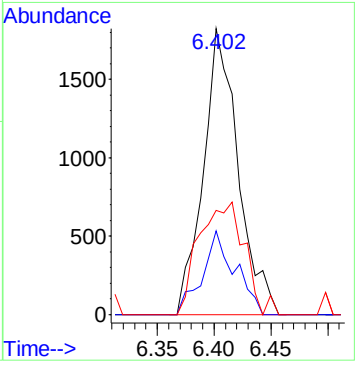


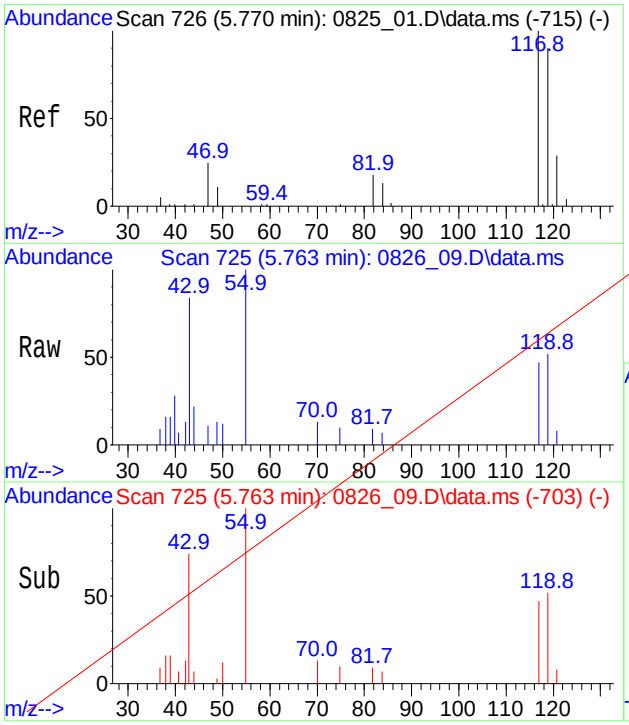


#13
Benzene
Conc: 8$ 0.208 ppbv
RT: 6.402 min Scan# 813
Delta R.T. -0.012 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 78 Resp: 3875

Ion	Ratio	Lower	Upper
78	100		
77	27.4	19.0	28.6
51	51.3	33.0	49.6#

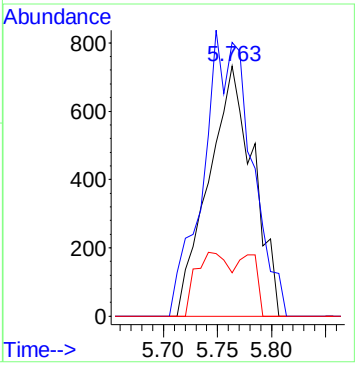


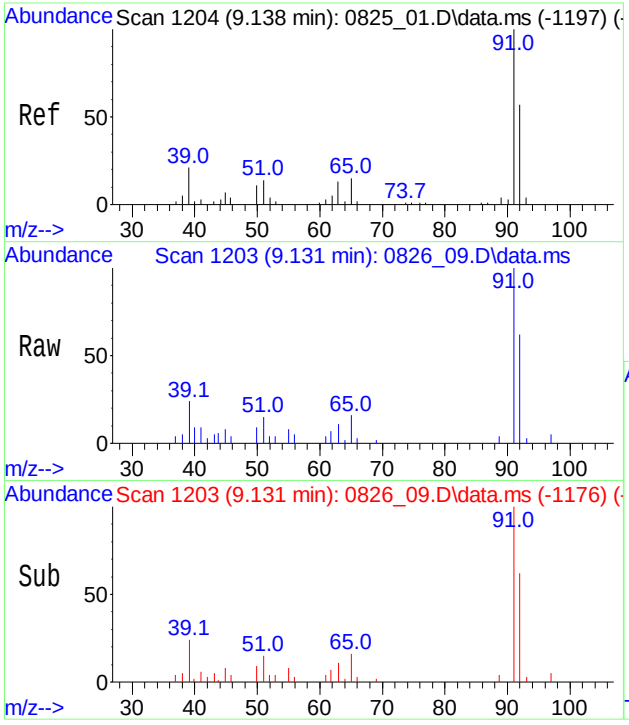


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.763 min Scan# 725
Delta R.T. 0.009 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion:117 Resp: 2106

Ion	Ratio	Lower	Upper
117	100		
119	0.0	76.4	116.4#
121	10.7	11.9	51.9#

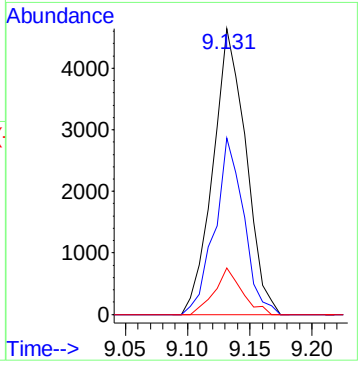


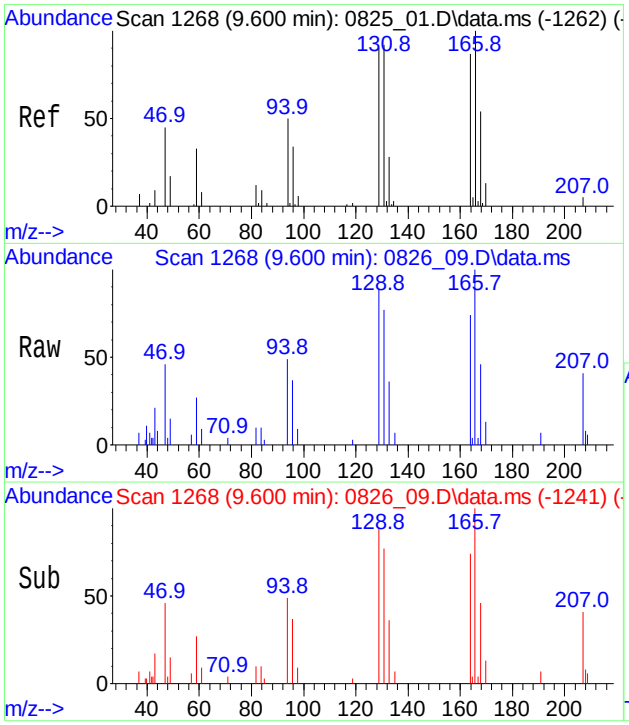


#18
Toluene
Conc: 8$ 0.302 ppbv
RT: 9.131 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 91 Resp: 8432

Ion	Ratio	Lower	Upper
91	100		
92	54.4	46.2	69.2
65	13.6	11.0	16.6

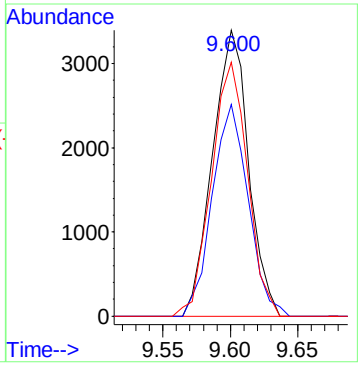


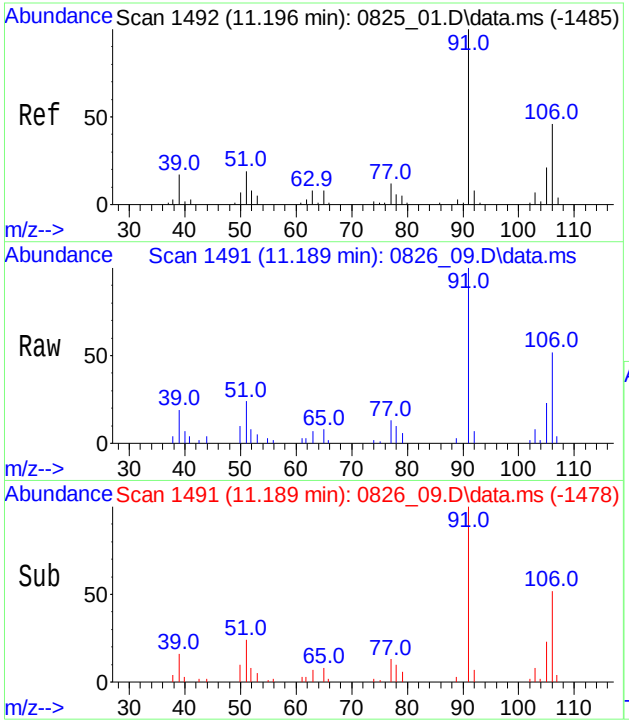


#19
Tetrachloroethene
Conc: 8$ 0.364 ppbv
RT: 9.600 min Scan# 1268
Delta R.T. -0.005 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion:166 Resp: 6301

Ion	Ratio	Lower	Upper
166	100		
164	73.8	62.4	93.6
129	89.0	69.8	104.8

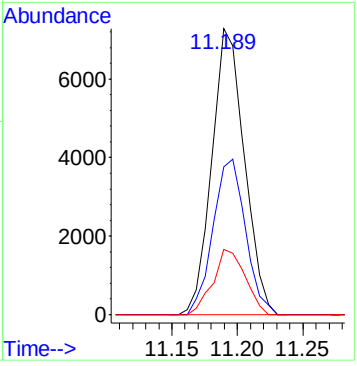


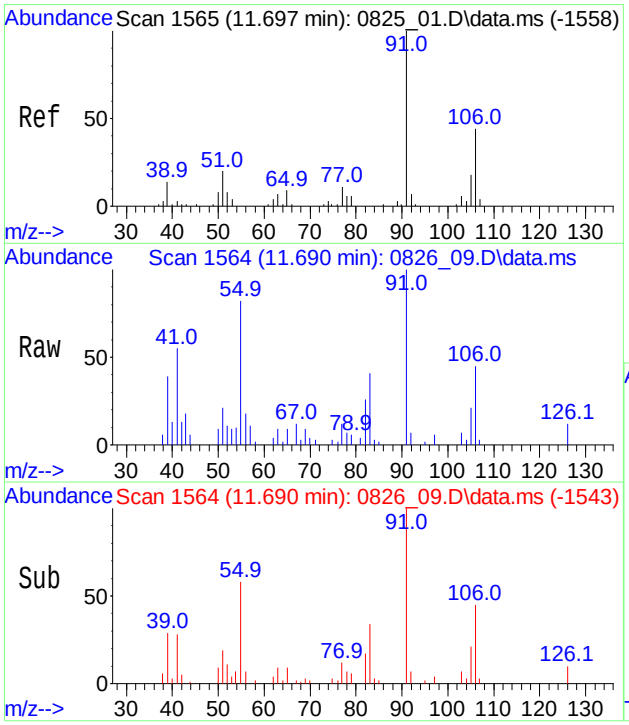


#23
m,p-Xylene
Conc: 8$ 0.425 ppbv
RT: 11.189 min Scan# 1491
Delta R.T. -0.012 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 91 Resp: 12434

Ion	Ratio	Lower	Upper
91	100		
106	54.3	39.3	58.9
105	22.5	17.8	26.6

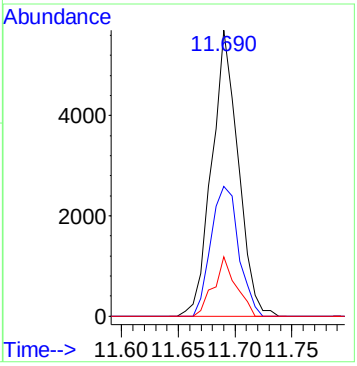


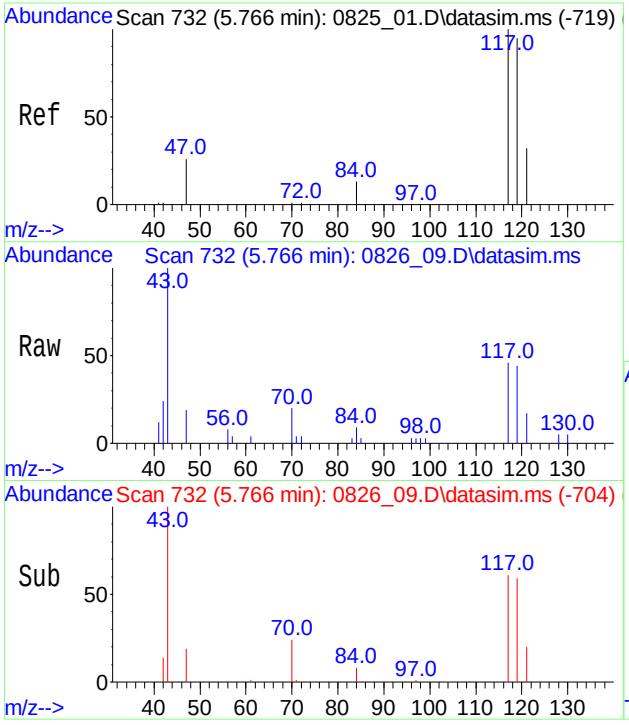


#24
o-Xylene
Conc: 8$ 0.289 ppbv
RT: 11.690 min Scan# 1564
Delta R.T. -0.005 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 91 Resp: 9176

Ion	Ratio	Lower	Upper
91	100		
106	47.7	38.0	57.0
105	17.4	15.0	22.6

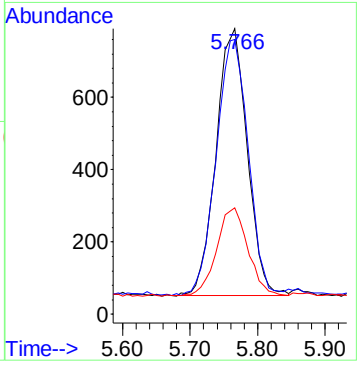


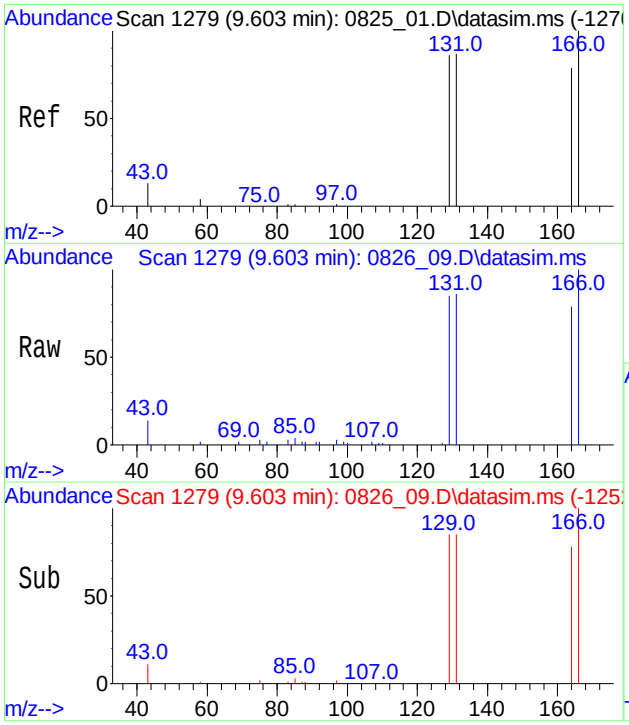


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.071 ppbv
RT: 5.766 min Scan# 732
Delta R.T. 0.002 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion:117 Resp: 2363

Ion	Ratio	Lower	Upper
117	100		
119	99.2	76.7	115.1
121	33.0	25.4	38.0

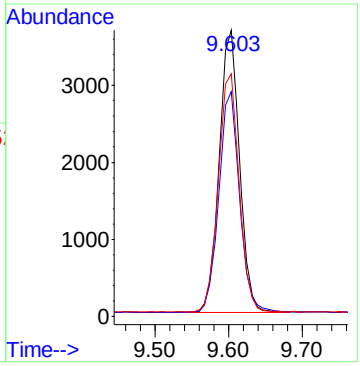


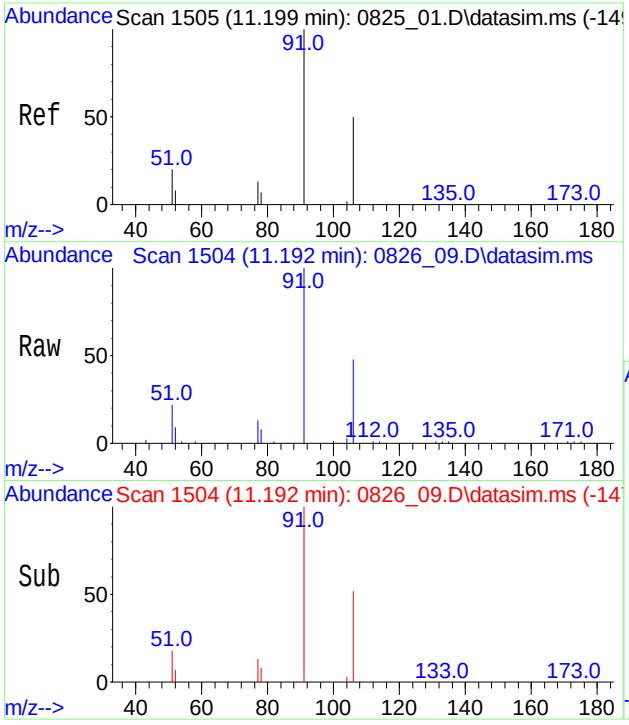


#46
Tetrachloroethene(sim)
Conc: 8$ 0.451 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion:166 Resp: 7048

Ion	Ratio	Lower	Upper
166	100		
164	79.8	58.0	98.0
129	86.8	67.3	107.3

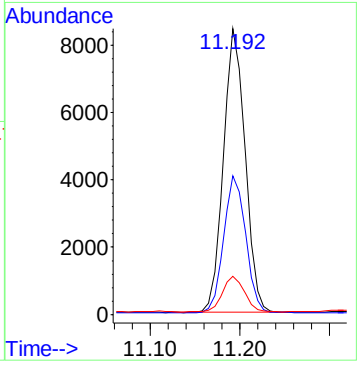




#48
m,p-Xylene(sim)
Conc: 8$ 0.496 ppbv
RT: 11.192 min Scan# 1504
Delta R.T. -0.009 min
Lab File: 0826_09.D
Acq: 26 Aug 2020 12:41 pm

Tgt Ion: 91 Resp: 14222

Ion	Ratio	Lower	Upper
91	100		
106	48.9	44.2	54.0
77	12.9	10.2	15.2



Response Factor Report Chem24

Method Path : H:\AIR2020\CHEM24\METHODS\
Method File : 24AIR_0821_wal.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,g,qf) display calculated conc and corr. coefficient.)
.035=0821_11.D 0.05=0821_12.D 0.1 =0821_13.D 0.5 =0821_14.D 1.0 =0821_20.D 2.5 =0821_15.D 5.0 =0821_16.D 10 =0821_21.D
25 =0821_17.D 40 =0821_18.D 0.02=0821_10.D

	Compound	.035	0.05	0.1	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1)	Int Bromochloromethane	----------	ISTD	----------										
2)	Dichlorodifluo...		2.239	1.735	1.893	1.586	2.359	1.830	1.609	1.200			1.806	20.51
3)	Vinyl Chloride		1.054	0.966	1.010	0.906	1.078	1.007	0.978	0.877			0.984	6.96
4)	Acetone		4.534	3.513	2.918	2.528	2.728	2.308	2.694	2.334			2.945	25.38
5)	Trichlorofluor...		2.930	3.163	2.957	3.067	3.448	3.004	3.023	2.633			3.028	7.56
6)	1,1-Dichloroet...		1.978	2.002	1.920	1.957	2.165	1.922	1.925	1.739			1.951	6.02
7)	Methylene Chlo...		3.442	2.434	2.076	2.136	2.326	1.953	1.972	1.733			2.259	23.28
8)	Trichlorotrifl...		2.020	2.153	1.959	1.971	2.181	1.966	1.919	1.767			1.992	6.59
10)	Cis-1,2-Dichlo...		1.888	1.682	1.594	1.576	1.792	1.617	1.611	1.511			1.659	7.48
12)	1,1,1-Trichlor...		2.913	2.588	2.268	2.363	2.693	2.284	2.294	2.090			2.437	11.11
13)	Benzene		1.946	1.991	1.910	1.834	2.063	1.887	1.857	1.800			1.911	4.52
14)	Carbon Tetrach...		3.238	3.029	2.800	2.906	3.258	2.785	2.814	2.547			2.922	8.29
15)	Int 1,4-Difluorobenzene	----------	ISTD	----------										
17)	Trichloroethene		0.496	0.505	0.475	0.480	0.525	0.495	0.488	0.502			0.496	3.16
18)	Toluene		0.993	0.925	0.875	0.894	0.983	0.941	0.941	0.958			0.939	4.31
19)	Tetrachloroethene		0.609	0.586	0.547	0.557	0.609	0.585	0.581	0.587			0.583	3.75
20)	Int Chlorobenzene-d5	----------	ISTD	----------										
21)	Chlorobenzene		2.110	1.922	1.944	1.839	2.077	1.978	1.987	2.003			1.982	4.31
22)	Ethylbenzene		3.105	2.772	2.822	2.702	3.071	2.841	2.876	2.844			2.879	4.85
23)	m,p-Xylene		2.259	2.164	1.816	2.142	2.407	2.245	2.300	2.232			2.196	7.91
24)	o-Xylene		2.563	2.300	2.282	2.241	2.546	2.341	2.438	2.366			2.385	5.05
25)	Surr% Bromofluorob...		1.525	1.530	1.514	1.531	1.589	1.560	1.641	1.587			1.559	2.78
26)	1,3-Dichlorobe...		1.933	1.745	1.838	1.834	2.014	1.867	1.910	1.861			1.875	4.24
27)	1,4-Dichlorobe...		1.832	1.699	1.831	1.740	1.920	1.836	1.885	1.815			1.820	3.92
28)	1,2-Dichlorobe...		1.682	1.431	1.493	1.483	1.575	1.457	1.555	1.460			1.517	5.44
29)	1,2,4-Trichlor...		0.644	0.651	0.860	0.823	0.693	0.705	0.826				0.743	12.18
30)	int Bromochloromethane...	----------	ISTD	----------										
31)	Vinyl Chloride...	1.224	1.103	0.997	0.985	1.014	0.958	1.087					1.053	8.79
34)	Carbon Tetrach...	3.416	3.219	2.983	2.958	2.747	2.898	3.131				3.770	3.140	10.43
35)	1,1-Dichloroet...	2.414	1.815	1.807	1.833	1.766	1.788	1.946				2.433	1.975	14.28
39)	Cis-1,2-Dichlo...	1.735	1.606	1.725	1.528	1.463	1.440	1.610				1.935	1.630	10.06
41)	int 1,4-Difluorobenzen...	----------	ISTD	----------										
44)	Trichloroethen...	0.574	0.559	0.430	0.442	0.420	0.418	0.458				0.641	0.493	17.37
46)	Tetrachloroeth...	0.537	0.598	0.528	0.512	0.482	0.486	0.532	0.515			0.544	0.526	6.60
47)	int Chlorobenzene-d5(sim)	----------	ISTD	----------										
48)	m,p-Xylene(sim)	2.443	2.315	2.068	1.979	2.082	1.990	2.189					2.152	8.06
50)	1,4-Dichlorobe...	1.907	1.684	1.678	1.554	1.677	1.616	1.757					1.696	6.62

Method Path : H:\AIR2020\CHEM24\METHODS\
Method File : 24AIR_0821_wal.M
Title : VOA Standards for 5 point calibration

(#,$,@)=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 | Client: WALDENE-IPARK

Lab Code: Phoenix | SDG No.: GCG61553

Instrument ID: CHEM24 | Calibration Date From: 08/21/20 15:59

Heated Purge (Y/N): Y | Calibration Date Thru: 08/21/20 21:53

GC Column: | Method File: 24AIR_0821_wal.M

Laboratory File Ids

RRF1 0821_10.D RRF2 0821_11.D RRF3 0821_12.D RRF4 0821_13.D RRF5 0821_14.D RRF6 0821_20.D
RRF7 0821_15.D RRF8 0821_16.D RRF9 0821_21.D RRF10 0821_17.D RRF11 0821_18.D

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	%RSD
Dichlorodifluoromethane				2.239	1.735	1.893	1.586	2.359	1.830	1.609	1.200		1.806	20.51
Vinyl Chloride				1.054	0.966	1.010	0.906	1.078	1.007	0.978	0.877		0.984	6.96
Acetone				4.534	3.513	2.918	2.528	2.728	2.308	2.694	2.334		2.945	25.38
Trichlorofluoromethane				2.930	3.163	2.957	3.067	3.448	3.004	3.023	2.633		3.028	7.56
1,1-Dichloroethene				1.978	2.002	1.920	1.957	2.165	1.922	1.925	1.739		1.951	6.02
Methylene Chloride				3.442	2.434	2.076	2.136	2.326	1.953	1.972	1.733		2.259	23.28
Trichlorotrifluoroethane				2.020	2.153	1.959	1.971	2.181	1.966	1.919	1.767		1.992	6.59
Cis-1,2-Dichloroethene				1.888	1.682	1.594	1.576	1.792	1.617	1.611	1.511		1.659	7.48
1,1,1-Trichloroethane				2.913	2.588	2.268	2.363	2.693	2.284	2.294	2.090		2.437	11.11
Benzene				1.946	1.991	1.910	1.834	2.063	1.887	1.857	1.800		1.911	4.52
Carbon Tetrachloride				3.238	3.029	2.800	2.906	3.258	2.785	2.814	2.547		2.922	8.29
Trichloroethene				0.496	0.505	0.475	0.480	0.525	0.495	0.488	0.502		0.496	3.16
Toluene				0.993	0.925	0.875	0.894	0.983	0.941	0.941	0.958		0.939	4.31
Tetrachloroethene				0.609	0.586	0.547	0.557	0.609	0.585	0.581	0.587		0.583	3.75
Chlorobenzene				2.110	1.922	1.944	1.839	2.077	1.978	1.987	2.003		1.982	4.31
Ethylbenzene				3.105	2.772	2.822	2.702	3.071	2.841	2.876	2.844		2.879	4.85
m,p-Xylene				2.259	2.164	1.816	2.142	2.407	2.245	2.300	2.232		2.196	7.91
o-Xylene				2.563	2.300	2.282	2.241	2.546	2.341	2.438	2.366		2.385	5.05
1,3-Dichlorobenzene				1.933	1.745	1.838	1.834	2.014	1.867	1.910	1.861		1.875	4.24
1,4-Dichlorobenzene				1.832	1.699	1.831	1.740	1.920	1.836	1.885	1.815		1.820	3.92
1,2-Dichlorobenzene				1.682	1.431	1.493	1.483	1.575	1.457	1.555	1.460		1.517	5.44
1,2,4-Trichlorobenzene				0.644	0.651	0.860	0.823	0.693	0.705	0.826			0.743	12.18
Vinyl Chloride(sim)		1.224	1.103	0.997	0.985	1.014	0.958	1.087					1.053	8.79
Carbon Tetrachloride(sim)	3.770	3.416	3.219	2.983	2.958	2.747	2.898	3.131					3.140	10.43
1,1-Dichloroethene(sim)	2.433	2.414	1.815	1.807	1.833	1.766	1.788	1.946					1.975	14.28

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

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

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

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: WALDENE-IPARK

Lab Code: Phoenix | SDG No.: GCG61553

Instrument ID: CHEM24 | Calibration Date From: 08/21/20 15:59

Heated Purge (Y/N): Y | Calibration Date Thru: 08/21/20 21:53

GC Column: | Method File: 24AIR_0821_wal.M

Laboratory File Ids

RRF1 0821_10.D RRF2 0821_11.D RRF3 0821_12.D RRF4 0821_13.D RRF5 0821_14.D RRF6 0821_20.D
RRF7 0821_15.D RRF8 0821_16.D RRF9 0821_21.D RRF10 0821_17.D RRF11 0821_18.D

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
Cis-1,2-Dichloroethene(sim)	1.935	1.735	1.606	1.725	1.528	1.463	1.440	1.610					1.630	10.06
Trichloroethene(sim)	0.641	0.574	0.559	0.430	0.442	0.420	0.418	0.458					0.493	17.37
Tetrachloroethene(sim)	0.544	0.537	0.598	0.528	0.512	0.482	0.486	0.532	0.515				0.526	6.60
m,p-Xylene(sim)		2.443	2.315	2.068	1.979	2.082	1.990	2.189					2.152	8.06
1,4-Dichlorobenzene(sim)		1.907	1.684	1.678	1.554	1.677	1.616	1.757					1.696	6.62
% Bromofluorobenzene				1.525	1.530	1.514	1.531	1.589	1.560	1.641	1.587		1.559	2.78

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

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

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_10.D
Acq On : 21 Aug 2020 1:44 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 8 Sample Multiplier: 1

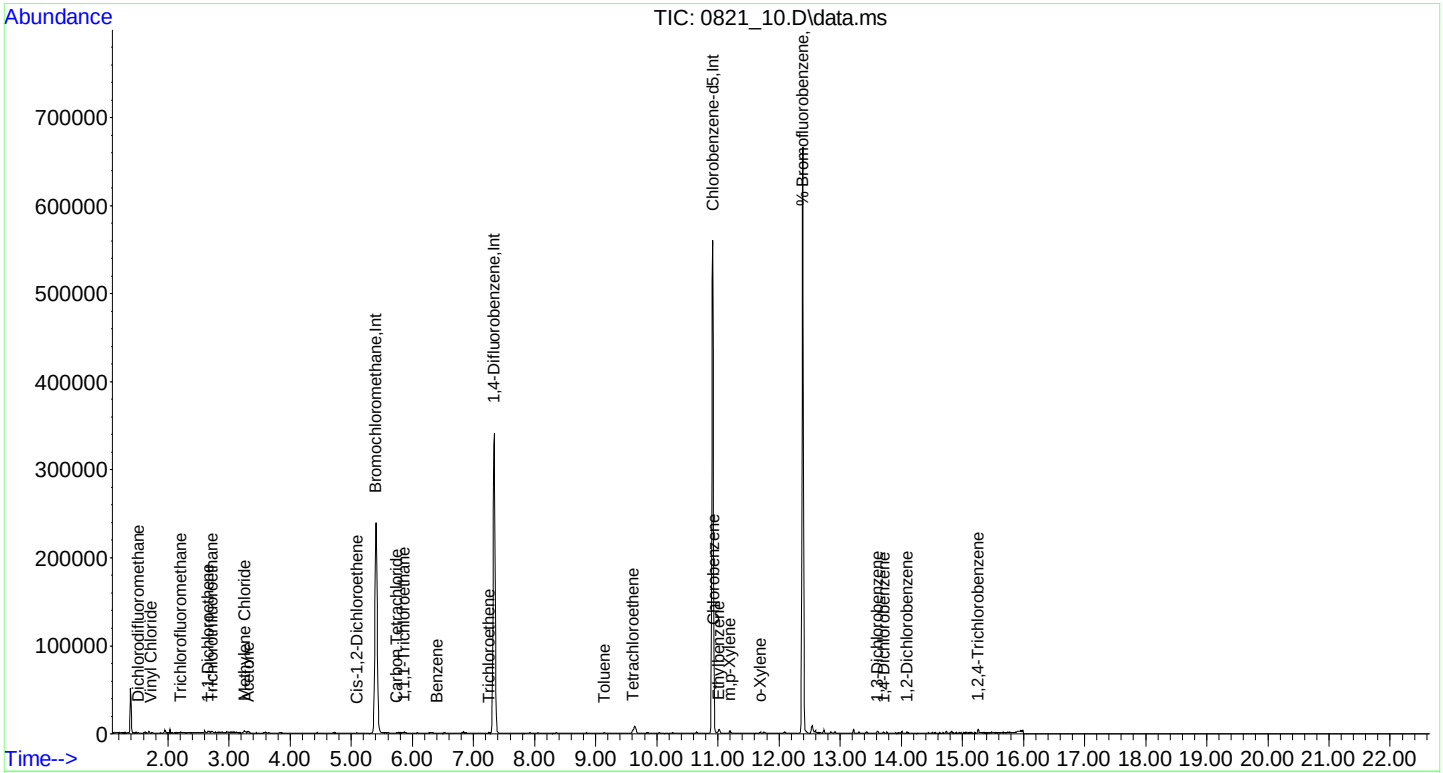
Quant Time: Aug 24 09:00:42 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:59 2020
Response via : Initial Calibration

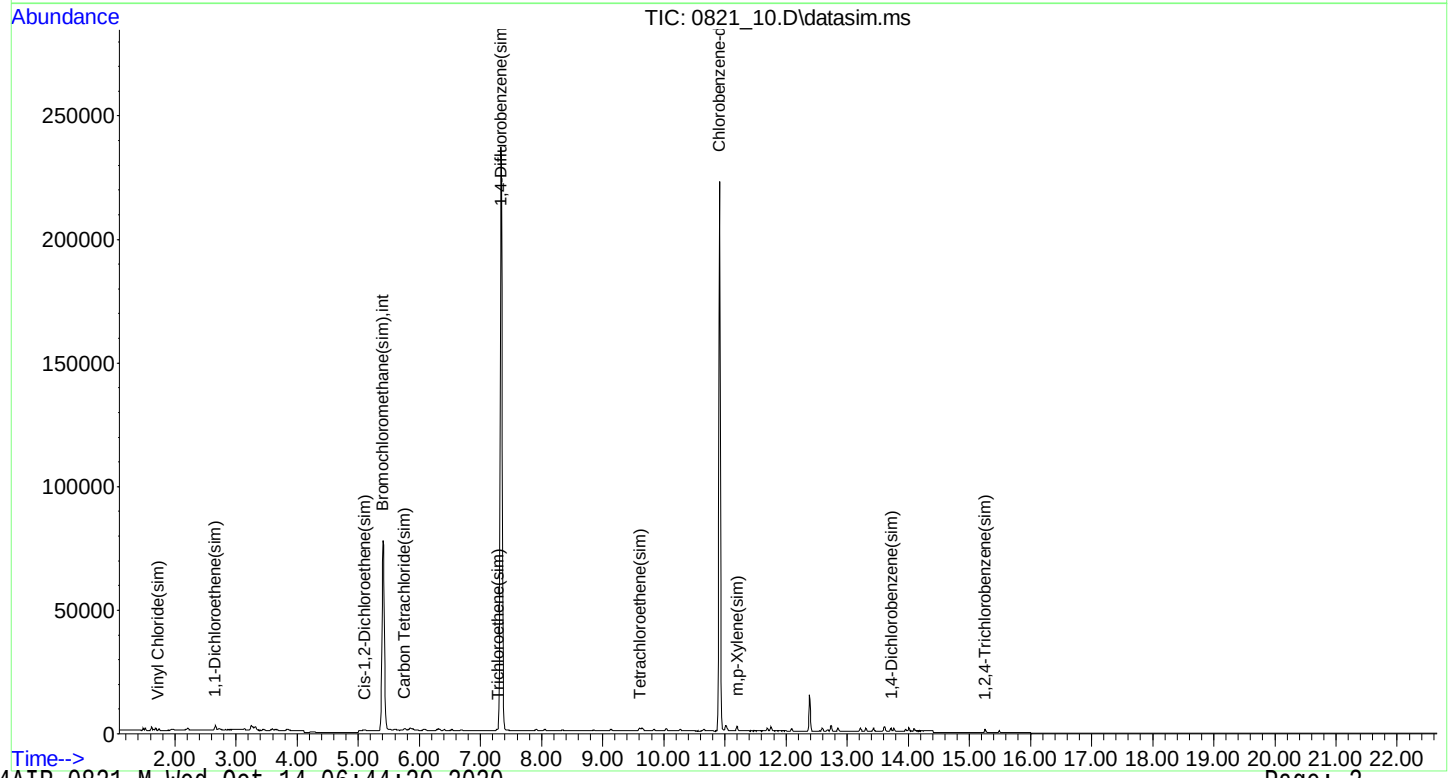
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	95090	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	294738	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	131505	10.000	ng		0.00
80) Bromochloromethane(sim)	5.406	130	106227	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.336	114	336290	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.911	82	142902	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	199155	9.680	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.80%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	577	0.034	ppbv	#	89
6) Vinyl Chloride	1.725	62	149	0.016	ppbv	#	46
12) Acetone	3.313	43	2969	0.106	ppbv	#	85
13) Trichlorofluoromethane	2.211	101	901	0.031	ppbv	#	90
16) 1,1-Dichloroethene	2.656	61	576	0.031	ppbv	#	49
17) Methylene Chloride	3.251	49	2059	0.096	ppbv	#	84
21) Trichlorotrifluoroethane	2.718	101	527	0.028	ppbv	#	80
26) Cis-1,2-Dichloroethene	5.100	61	411	0.026	ppbv	#	33
32) 1,1,1-Trichloroethane	5.857	97	599	0.026	ppbv	#	63
33) Benzene	6.409	78	466	0.026	ppbv	#	59
34) Carbon Tetrachloride	5.742	117	234	0.008	ppbv	#	1
39) Trichloroethene	7.251	130	212	0.015	ppbv	#	17
48) Toluene	9.138	91	609	0.022	ppbv	#	90
52) Tetrachloroethene	9.608	166	434	0.025	ppbv	#	85
55) Chlorobenzene	10.935	112	643	0.025	ppbv	#	1
56) Ethylbenzene	11.011	91	931	0.025	ppbv		97
57) m,p-Xylene	11.196	91	1516	0.053	ppbv	#	89
61) o-Xylene	11.697	91	727	0.023	ppbv	#	92
71) 1,3-Dichlorobenzene	13.616	146	628	0.025	ppbv		89
72) 1,4-Dichlorobenzene	13.719	146	692	0.029	ppbv	#	87
75) 1,2-Dichlorobenzene	14.096	146	600	0.030	ppbv	#	94
77) 1,2,4-Trichlorobenzene	15.252	180	239	0.024	ppbv		91
82] Vinyl Chloride(sim)	1.728	62	272	0.024	ppbv		94
86] Carbon Tetrachloride(sim)	5.759	117	801	0.024	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	517	0.025	ppbv	#	50
91] Cis-1,2-Dichloroethene...	5.100	61	411	0.024	ppbv	#	33
97] Trichloroethene(sim)	7.278	130	431	0.026	ppbv		92
103] Tetrachloroethene(sim)	9.608	166	366	0.021	ppbv		91
107] m,p-Xylene(sim)	11.196	91	1516	0.049	ppbv	#	87
113] 1,4-Dichlorobenzene(sim)	13.719	146	692	0.029	ppbv		87
118] 1,2,4-Trichlorobenzene...	15.255	180	363	0.027	ppbv		96

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_10.D
Acq On : 21 Aug 2020 1:44 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 24 09:00:42 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:59 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_11.D
Acq On : 21 Aug 2020 2:16 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 24 09:02:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:00:59 2020
Response via : Initial Calibration

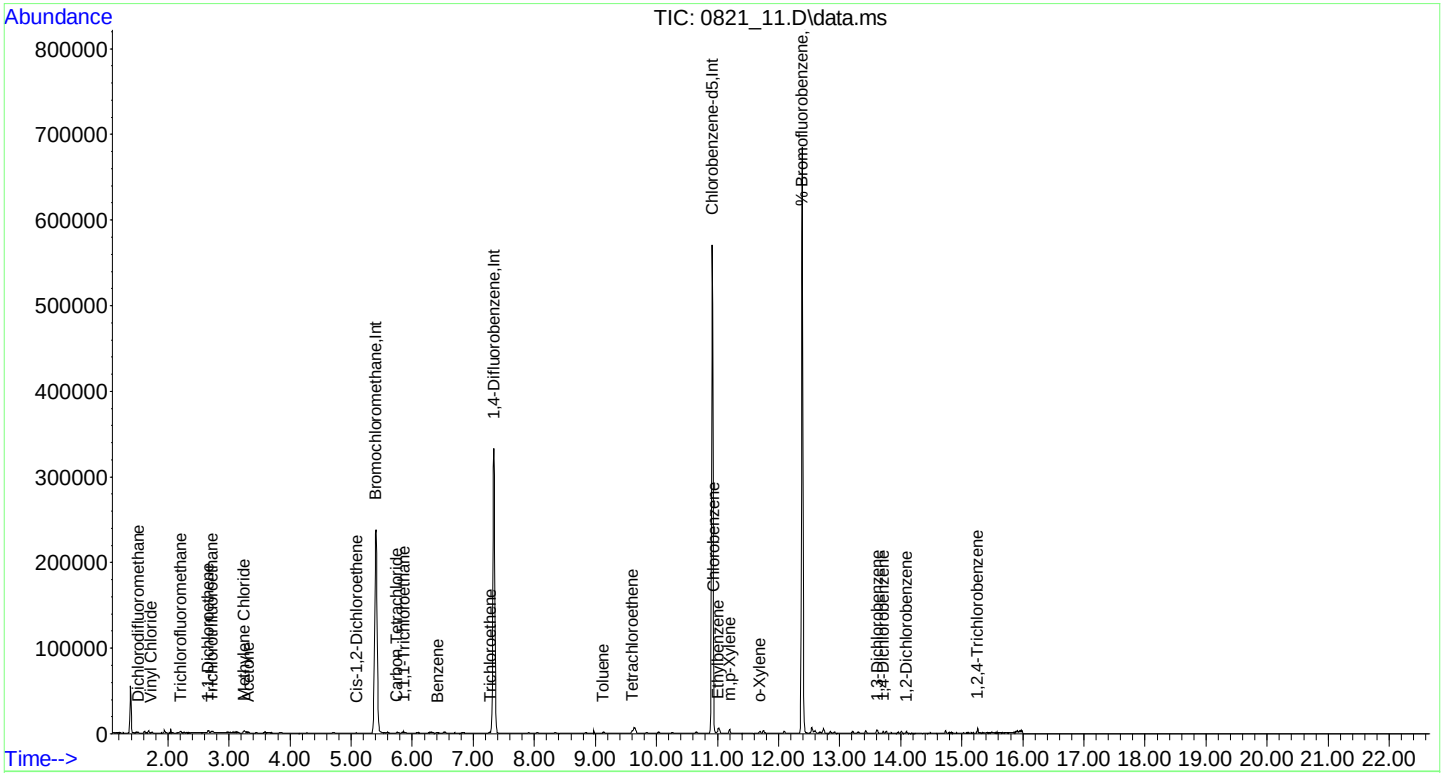
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	95524	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.338	114	290719	10.000	ng		0.00
53) Chlorobenzene-d5	10.913	82	129607	10.000	ng		0.00
80) Bromochloromethane(sim)	5.410	130	105710	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	333687	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	142193	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.387	95	198326	9.781	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.80%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.512	85	817	0.047	ppbv	#	89
6) Vinyl Chloride	1.725	62	371	0.039	ppbv	#	46
12) Acetone	3.313	43	2698	0.096	ppbv	#	90
13) Trichlorofluoromethane	2.211	101	1186	0.041	ppbv	#	93
16) 1,1-Dichloroethene	2.656	61	893	0.048	ppbv	#	80
17) Methylene Chloride	3.244	49	2245	0.104	ppbv		97
21) Trichlorotrifluoroethane	2.718	101	901	0.047	ppbv		91
26) Cis-1,2-Dichloroethene	5.090	61	642	0.041	ppbv	#	77
32) 1,1,1-Trichloroethane	5.862	97	919	0.039	ppbv	#	81
33) Benzene	6.420	78	889	0.049	ppbv	#	74
34) Carbon Tetrachloride	5.754	117	1004	0.036	ppbv		89
39) Trichloroethene	7.276	130	650	0.045	ppbv		96
48) Toluene	9.129	91	1165	0.043	ppbv	#	88
52) Tetrachloroethene	9.605	166	785	0.046	ppbv	#	66
55) Chlorobenzene	10.933	112	1314	0.051	ppbv	#	1
56) Ethylbenzene	11.016	91	1579	0.042	ppbv		98
57) m,p-Xylene	11.194	91	2432	0.085	ppbv		98
61) o-Xylene	11.688	91	1163	0.038	ppbv	#	84
71) 1,3-Dichlorobenzene	13.620	146	801	0.033	ppbv	#	80
72) 1,4-Dichlorobenzene	13.711	146	949	0.040	ppbv	#	86
75) 1,2-Dichlorobenzene	14.094	146	821	0.042	ppbv	#	90
77) 1,2,4-Trichlorobenzene	15.256	180	380	0.039	ppbv		87
82] Vinyl Chloride(sim)	1.721	62	453	0.041	ppbv		95
86] Carbon Tetrachloride(sim)	5.764	117	1264	0.038	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	893	0.043	ppbv	#	75
91] Cis-1,2-Dichloroethene...	5.090	61	642	0.037	ppbv	#	71
97] Trichloroethene(sim)	7.272	130	670m	0.041	ppbv		22
103] Tetrachloroethene(sim)	9.605	166	627	0.036	ppbv	#	73
107] m,p-Xylene(sim)	11.194	91	2432	0.079	ppbv		98
113] 1,4-Dichlorobenzene(sim)	13.711	146	949	0.039	ppbv		87
118] 1,2,4-Trichlorobenzene...	15.254	180	503	0.038	ppbv		96

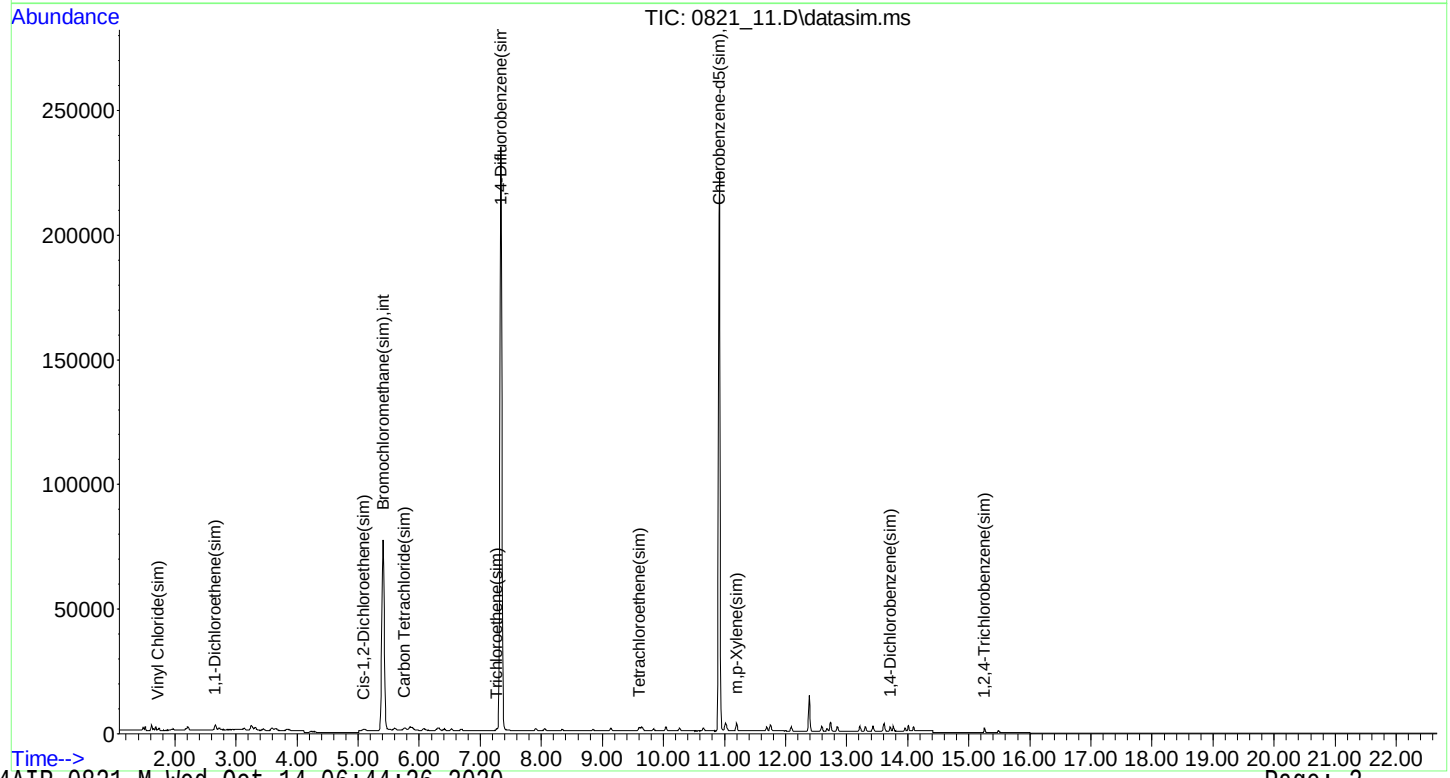
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_11.D
Acq On : 21 Aug 2020 2:16 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 24 09:02:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:00:59 2020
Response via : Initial Calibration





Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_12.D
Acq On : 21 Aug 2020 2:49 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 10 Sample Multiplier: 1

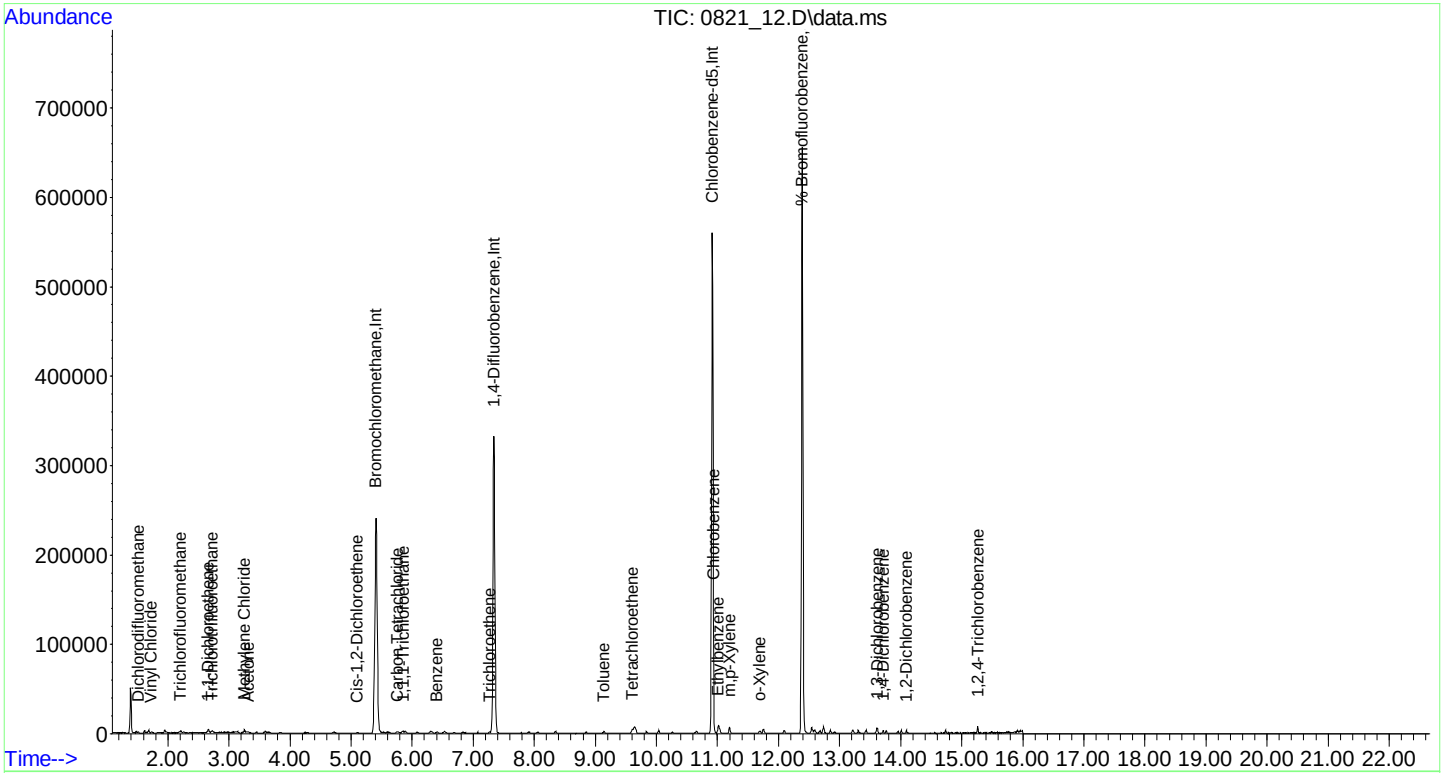
Quant Time: Aug 24 09:03:16 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:02:39 2020
Response via : Initial Calibration

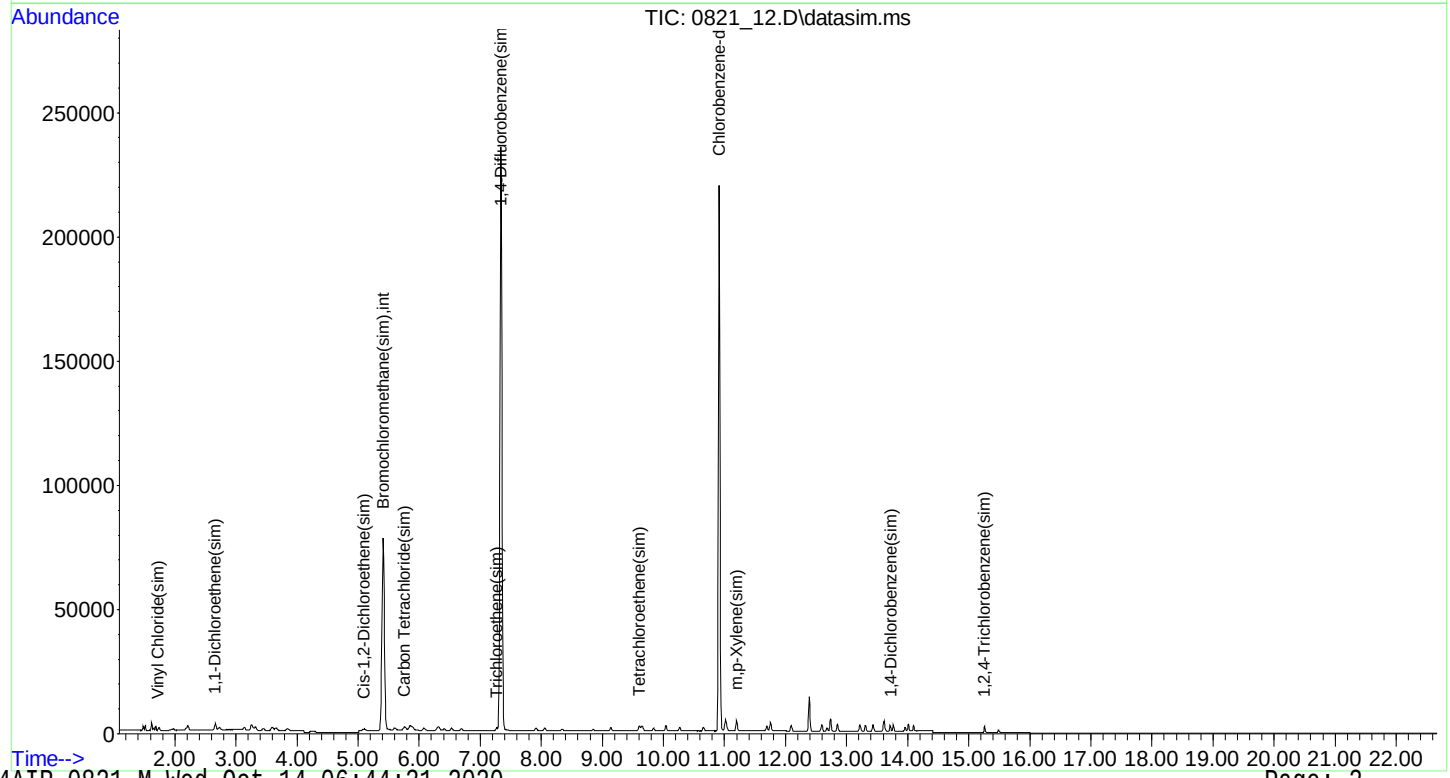
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	95271	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.338	114	288412	10.000	ng		0.00
53) Chlorobenzene-d5	10.913	82	128283	10.000	ng		0.00
80) Bromochloromethane(sim)	5.411	130	105014	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	332172	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	139165	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.387	95	198967	9.914	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.10%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	1242	0.072	ppbv	#	91
6) Vinyl Chloride	1.725	62	492	0.052	ppbv		79
12) Acetone	3.313	43	2544	0.091	ppbv		95
13) Trichlorofluoromethane	2.211	101	1766	0.061	ppbv	#	95
16) 1,1-Dichloroethene	2.656	61	953	0.051	ppbv	#	77
17) Methylene Chloride	3.251	49	2389	0.111	ppbv		98
21) Trichlorotrifluoroethane	2.725	101	1096	0.058	ppbv		91
26) Cis-1,2-Dichloroethene	5.098	61	843	0.053	ppbv	#	82
32) 1,1,1-Trichloroethane	5.855	97	1402	0.060	ppbv	#	81
33) Benzene	6.400	78	1117	0.061	ppbv		96
34) Carbon Tetrachloride	5.761	117	1461	0.052	ppbv		88
39) Trichloroethene	7.270	130	739	0.052	ppbv		89
48) Toluene	9.136	91	1700	0.063	ppbv	#	83
52) Tetrachloroethene	9.605	166	994	0.059	ppbv		95
55) Chlorobenzene	10.933	112	1526	0.060	ppbv	#	1
56) Ethylbenzene	11.016	91	2129	0.058	ppbv		87
57) m,p-Xylene	11.194	91	3221	0.114	ppbv		98
61) o-Xylene	11.688	91	1663	0.054	ppbv	#	95
71) 1,3-Dichlorobenzene	13.620	146	1305	0.054	ppbv		95
72) 1,4-Dichlorobenzene	13.717	146	1172	0.050	ppbv		94
75) 1,2-Dichlorobenzene	14.087	146	1344	0.069	ppbv	#	81
77) 1,2,4-Trichlorobenzene	15.261	180	445	0.047	ppbv		92
82] Vinyl Chloride(sim)	1.721	62	579	0.052	ppbv		97
86] Carbon Tetrachloride(sim)	5.764	117	1690	0.051	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	953	0.046	ppbv	#	74
91] Cis-1,2-Dichloroethene...	5.098	61	843	0.049	ppbv	#	77
97] Trichloroethene(sim)	7.272	130	928m	0.057	ppbv		79
103] Tetrachloroethene(sim)	9.605	166	994	0.057	ppbv		92
107] m,p-Xylene(sim)	11.194	91	3221	0.108	ppbv	#	97
113] 1,4-Dichlorobenzene(sim)	13.717	146	1172	0.050	ppbv		98
118] 1,2,4-Trichlorobenzene...	15.254	180	636	0.049	ppbv		97

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_12.D
Acq On : 21 Aug 2020 2:49 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 24 09:03:16 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:02:39 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_13.D
Acq On : 21 Aug 2020 3:22 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 11 Sample Multiplier: 1

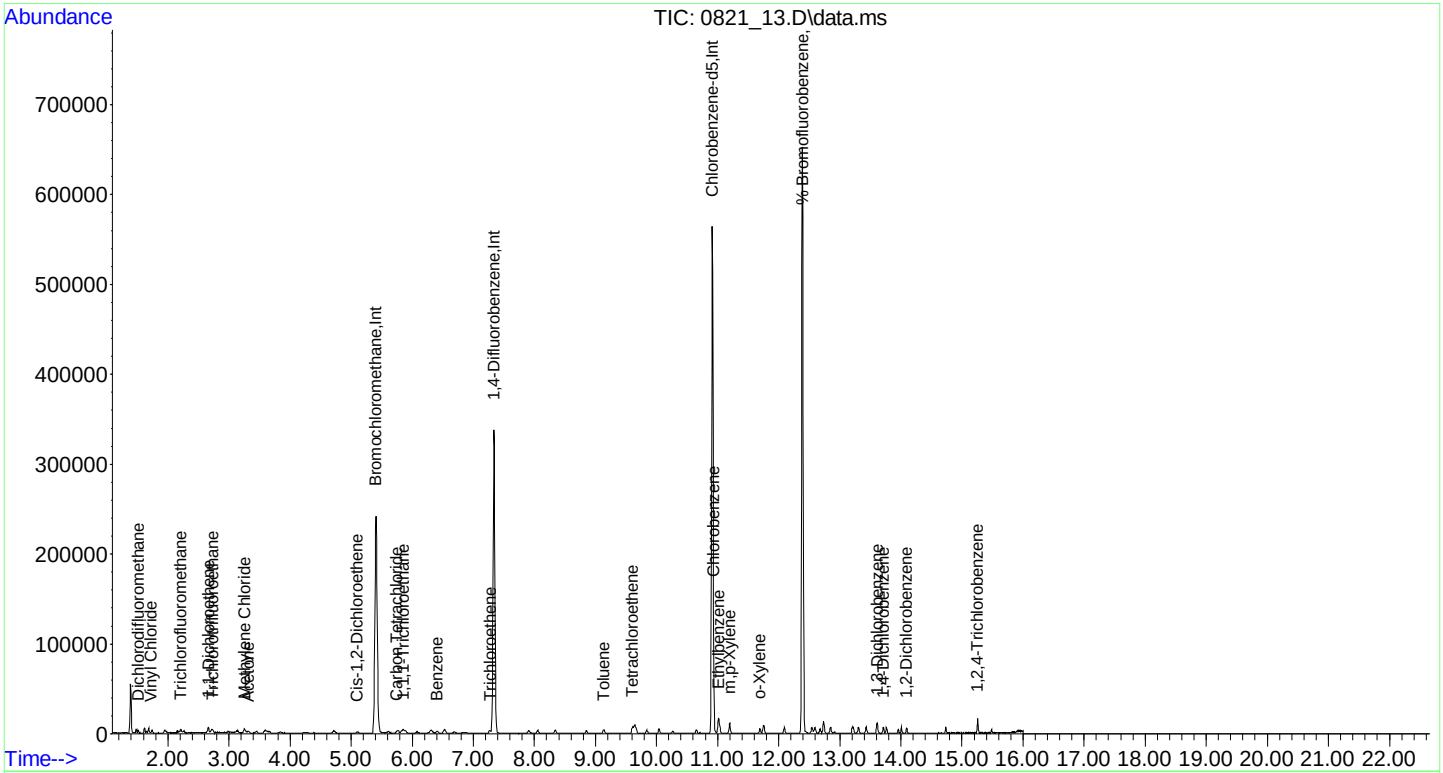
Quant Time: Aug 24 09:03:49 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:03:39 2020
Response via : Initial Calibration

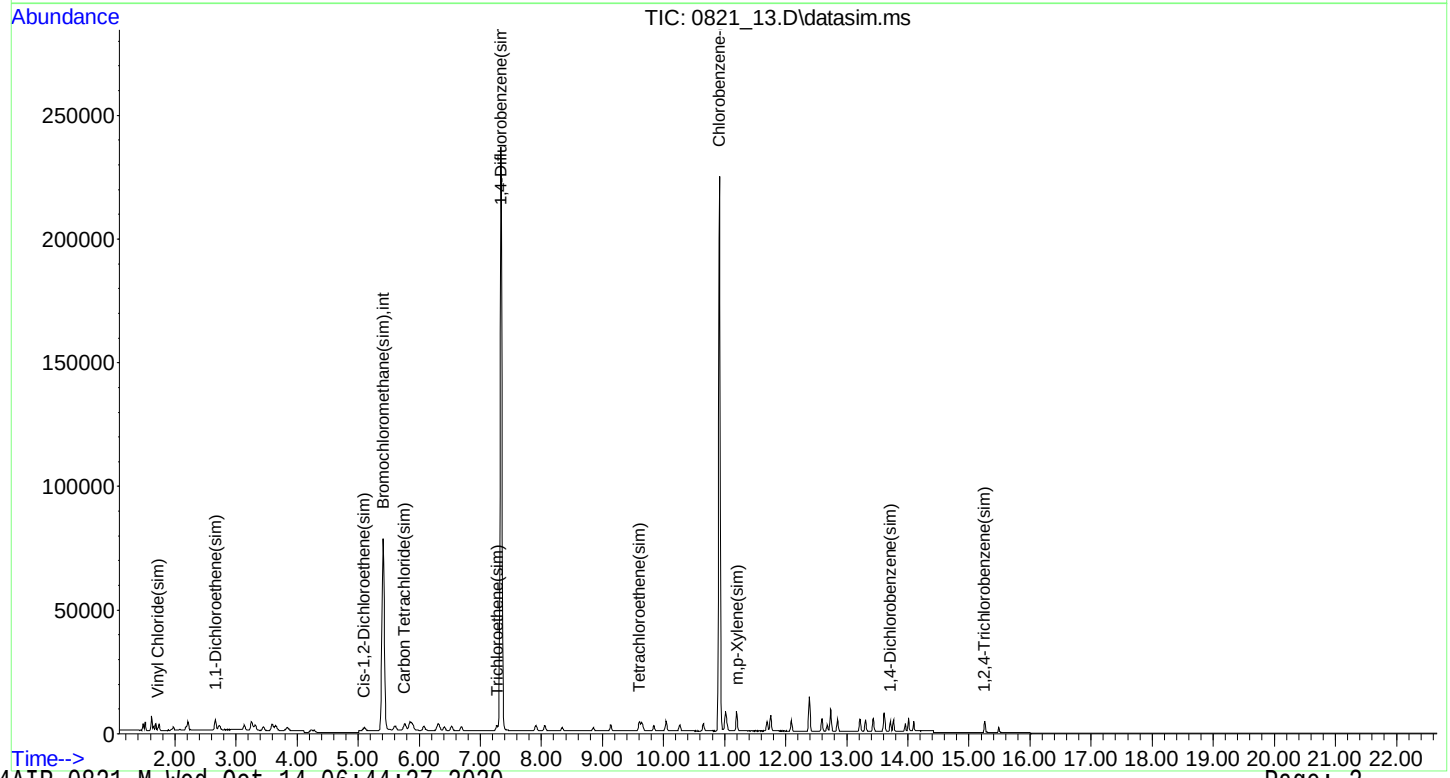
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	95594	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.338	114	285802	10.000	ng		0.00
53) Chlorobenzene-d5	10.913	82	128747	10.000	ng		0.00
80) Bromochloromethane(sim)	5.411	130	104665	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	329453	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	140614	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.387	95	196286	9.745	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.50%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	2140	0.124	ppbv	#	97
6) Vinyl Chloride	1.725	62	1008	0.107	ppbv		100
12) Acetone	3.320	43	4334	0.154	ppbv		96
13) Trichlorofluoromethane	2.211	101	2801	0.097	ppbv	#	98
16) 1,1-Dichloroethene	2.663	61	1891	0.101	ppbv		98
17) Methylene Chloride	3.252	49	3290	0.152	ppbv		96
21) Trichlorotrifluoroethane	2.732	101	1931	0.101	ppbv		95
26) Cis-1,2-Dichloroethene	5.098	61	1805	0.114	ppbv	#	85
32) 1,1,1-Trichloroethane	5.855	97	2785	0.120	ppbv		92
33) Benzene	6.414	78	1860	0.102	ppbv	#	83
34) Carbon Tetrachloride	5.754	117	3095	0.111	ppbv		93
39) Trichloroethene	7.277	130	1418	0.100	ppbv		96
48) Toluene	9.136	91	2837	0.106	ppbv		92
52) Tetrachloroethene	9.605	166	1740	0.104	ppbv		95
55) Chlorobenzene	10.933	112	2716	0.106	ppbv	#	17
56) Ethylbenzene	11.016	91	3997	0.108	ppbv		99
57) m,p-Xylene	11.201	91	5817	0.206	ppbv		91
61) o-Xylene	11.695	91	3300	0.107	ppbv		94
71) 1,3-Dichlorobenzene	13.620	146	2489	0.103	ppbv	#	87
72) 1,4-Dichlorobenzene	13.711	146	2359	0.101	ppbv		100
75) 1,2-Dichlorobenzene	14.093	146	2165	0.111	ppbv		97
77) 1,2,4-Trichlorobenzene	15.253	180	829	0.087	ppbv	#	74
82] Vinyl Chloride(sim)	1.721	62	1044	0.095	ppbv		96
86] Carbon Tetrachloride(sim)	5.764	117	3122	0.095	ppbv		98
87] 1,1-Dichloroethene(sim)	2.663	61	1891	0.091	ppbv		96
91] Cis-1,2-Dichloroethene...	5.098	61	1805	0.106	ppbv	#	75
97] Trichloroethene(sim)	7.277	130	1418	0.087	ppbv		96
103] Tetrachloroethene(sim)	9.605	166	1740	0.100	ppbv	#	77
107] m,p-Xylene(sim)	11.201	91	5817	0.192	ppbv	#	92
113] 1,4-Dichlorobenzene(sim)	13.711	146	2359	0.099	ppbv		100
118] 1,2,4-Trichlorobenzene...	15.256	180	1181	0.090	ppbv		98

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_13.D
Acq On : 21 Aug 2020 3:22 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 24 09:03:49 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:03:39 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_14.D
Acq On : 21 Aug 2020 3:59 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 24 08:59:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:03 2020
Response via : Initial Calibration

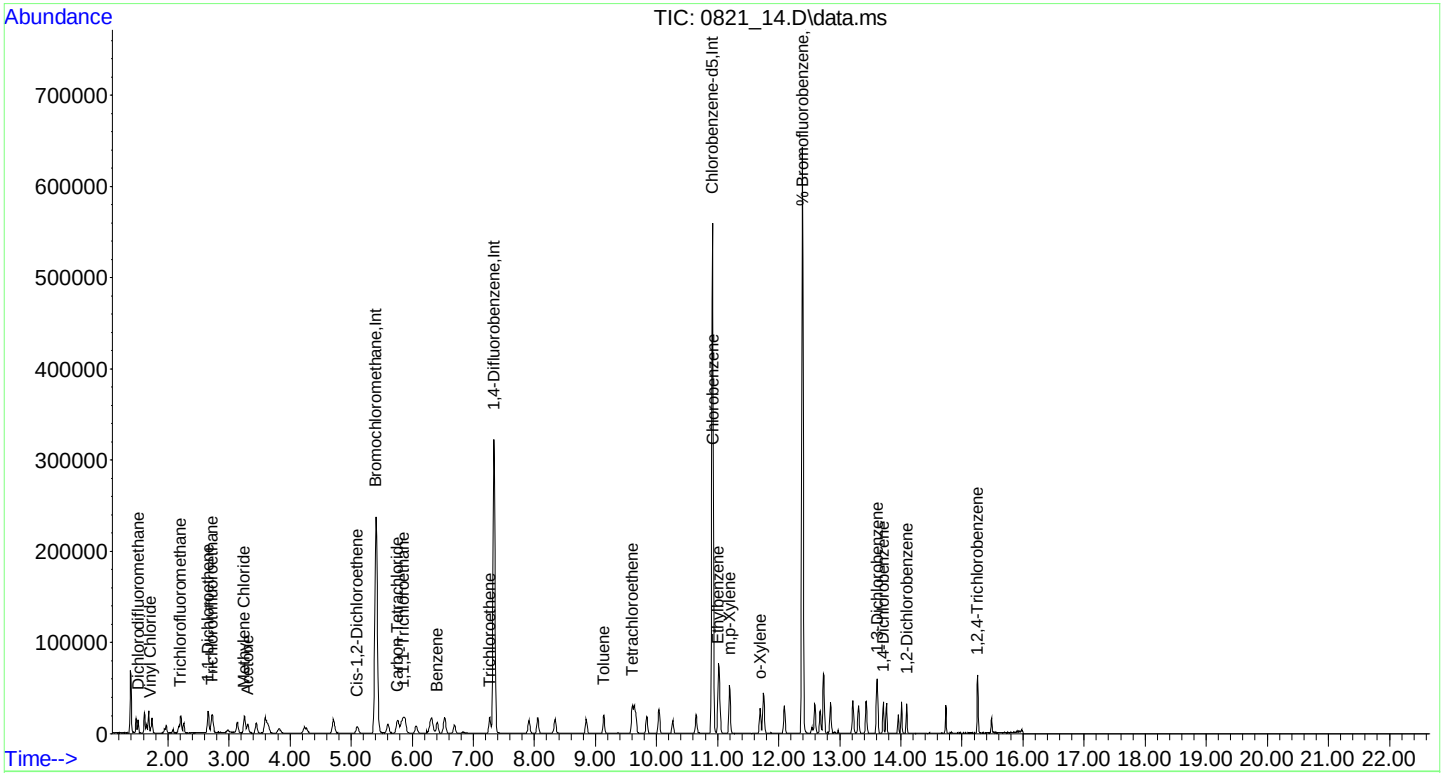
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	93235	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	281434	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	127016	10.000	ng		0.00
80) Bromochloromethane(sim)	5.413	130	101878	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	321739	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	138903	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	194392	9.747	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.50%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	8086	0.480	ppbv	#	97
6) Vinyl Chloride	1.718	62	4505	0.491	ppbv		95
12) Acetone	3.306	43	16379	0.597	ppbv		92
13) Trichlorofluoromethane	2.204	101	14744	0.522	ppbv		99
16) 1,1-Dichloroethene	2.656	61	9335	0.513	ppbv		97
17) Methylene Chloride	3.245	49	11347	0.539	ppbv		96
21) Trichlorotrifluoroethane	2.725	101	10038	0.540	ppbv		96
26) Cis-1,2-Dichloroethene	5.100	61	7839	0.507	ppbv		95
32) 1,1,1-Trichloroethane	5.857	97	12063	0.531	ppbv		98
33) Benzene	6.409	78	9280	0.521	ppbv		92
34) Carbon Tetrachloride	5.756	117	14119	0.518	ppbv		99
39) Trichloroethene	7.272	130	7110	0.510	ppbv		97
48) Toluene	9.138	91	13019	0.493	ppbv		96
52) Tetrachloroethene	9.608	166	8243	0.503	ppbv		99
55) Chlorobenzene	10.929	112	12209	0.485	ppbv	#	80
56) Ethylbenzene	11.011	91	17602	0.481	ppbv		96
57) m,p-Xylene	11.196	91	27491	0.986	ppbv		99
61) o-Xylene	11.697	91	14606	0.482	ppbv		97
71) 1,3-Dichlorobenzene	13.616	146	11080	0.465	ppbv		96
72) 1,4-Dichlorobenzene	13.713	146	10792	0.467	ppbv		99
75) 1,2-Dichlorobenzene	14.096	146	9090	0.472	ppbv		98
77) 1,2,4-Trichlorobenzene	15.252	180	4136	0.438	ppbv	#	91
82] Vinyl Chloride(sim)	1.721	62	5016	0.468	ppbv		99
86] Carbon Tetrachloride(sim)	5.766	117	15069	0.471	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	9335	0.464	ppbv		97
91] Cis-1,2-Dichloroethene...	5.100	61	7783	0.469	ppbv		95
97] Trichloroethene(sim)	7.272	130	7110	0.448	ppbv		97
103] Tetrachloroethene(sim)	9.608	166	8243	0.487	ppbv		99
107] m,p-Xylene(sim)	11.196	91	27491	0.920	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.713	146	10792	0.458	ppbv		98
118] 1,2,4-Trichlorobenzene...	15.255	180	5326	0.413	ppbv		98

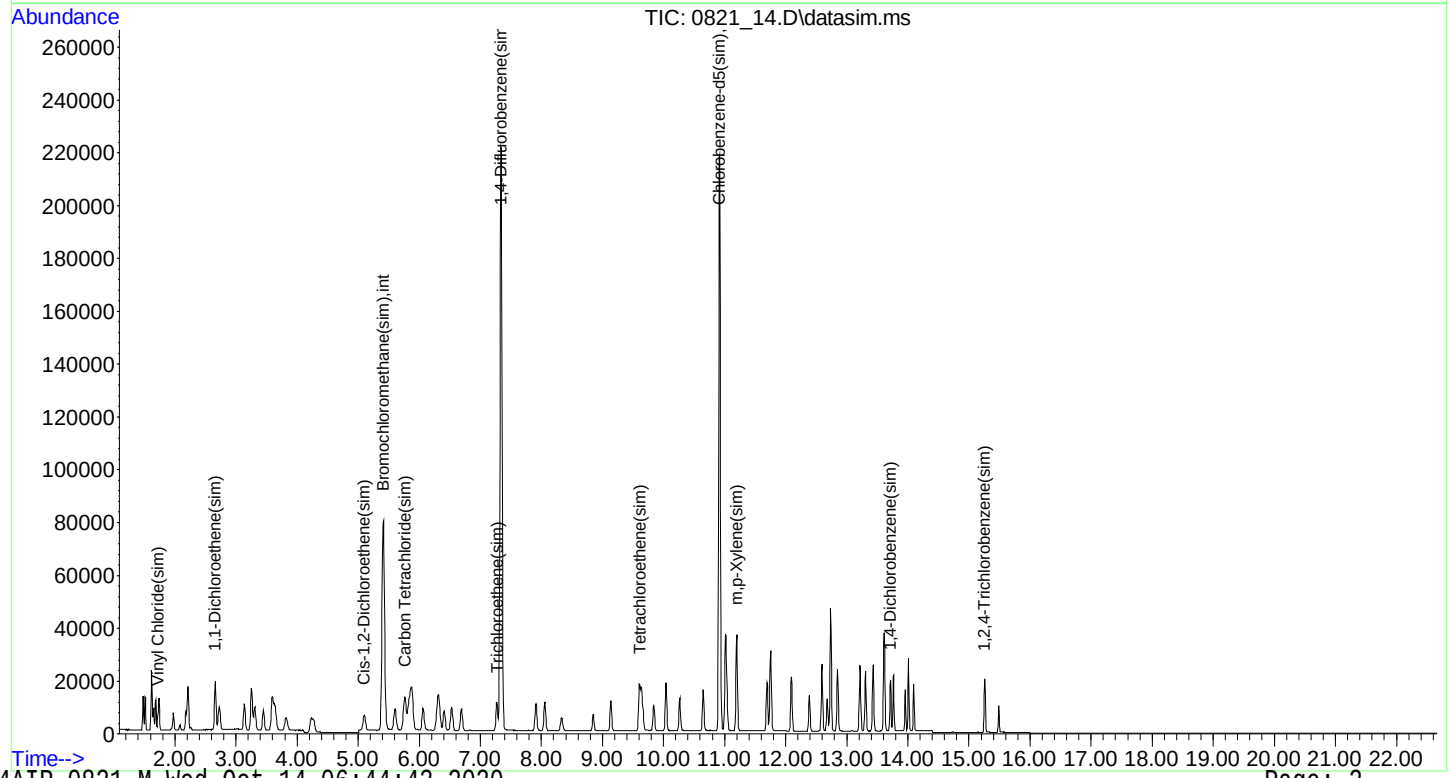
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_14.D
Acq On : 21 Aug 2020 3:59 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 24 08:59:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:03 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_15.D
Acq On : 21 Aug 2020 4:36 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 13 Sample Multiplier: 1

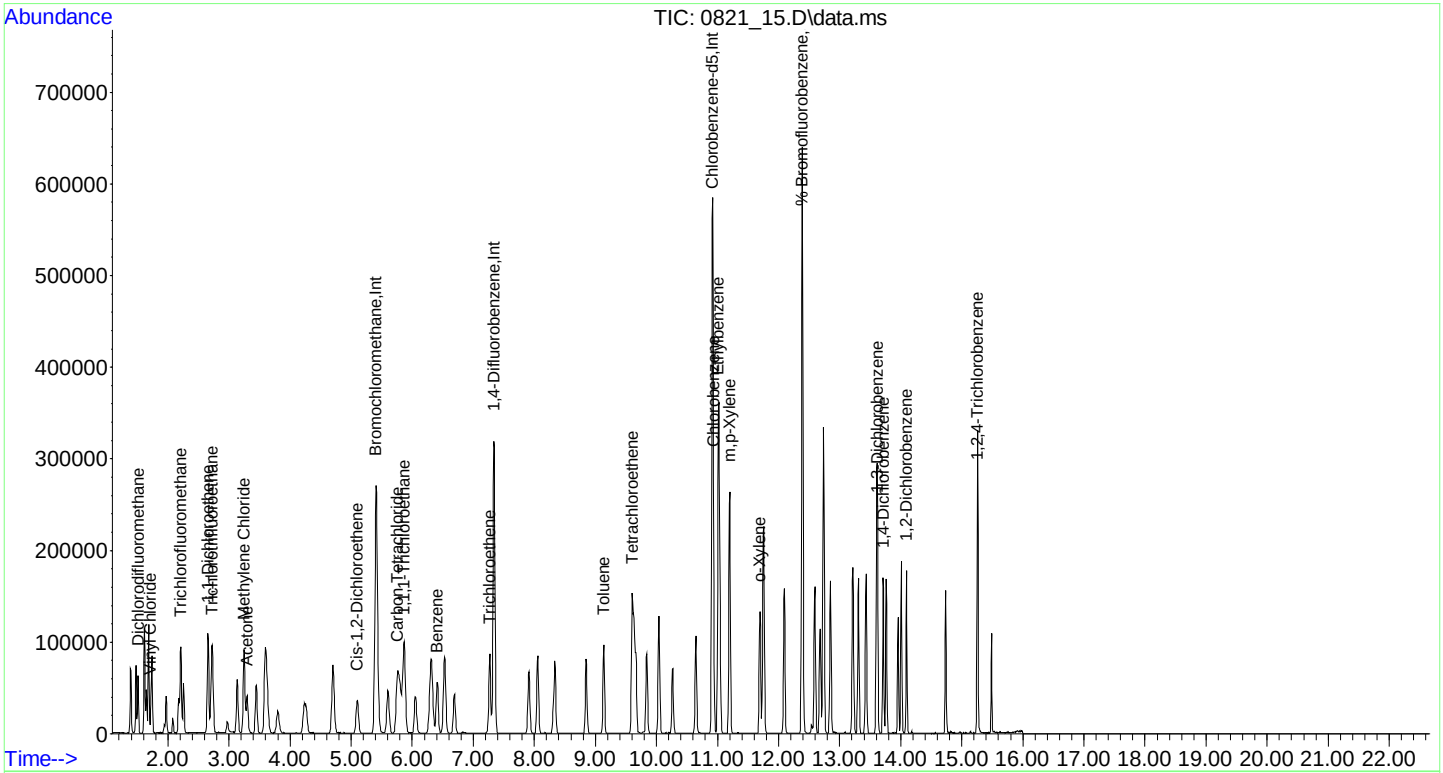
Quant Time: Aug 24 08:56:03 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration

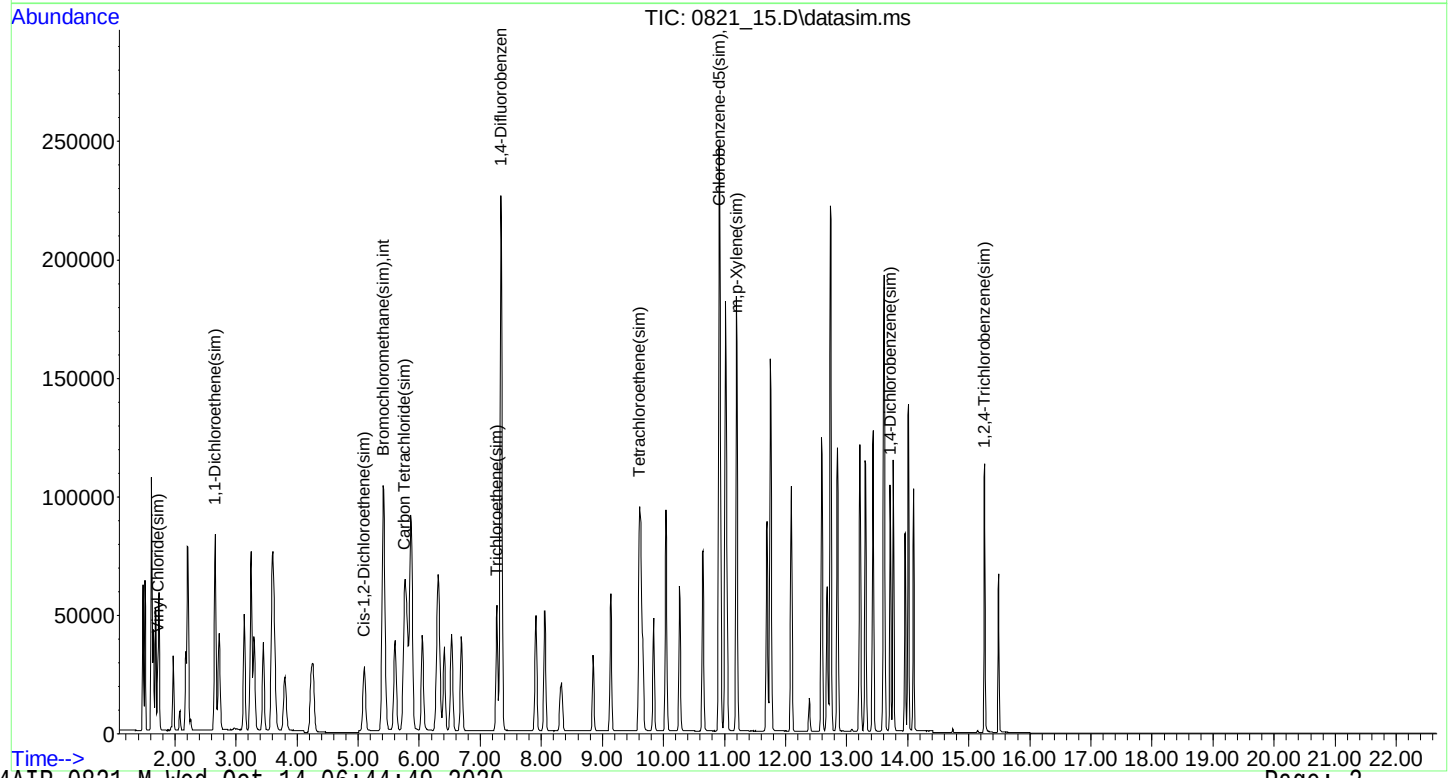
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.407	130	92880	10.000	ng	-0.01
36) 1,4-Difluorobenzene	7.338	114	275668	10.000	ng	0.00
53) Chlorobenzene-d5	10.913	82	128123	10.000	ng	0.00
80) Bromochloromethane(sim)	5.410	130	101644	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	316521	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	10.916	82	137895	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.387	95	196127	9.957	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.60%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.512	85	36817	2.195	ppbv	99
6) Vinyl Chloride	1.718	62	21040	2.301	ppbv	98
12) Acetone	3.299	43	58711	2.147	ppbv	92
13) Trichlorofluoromethane	2.211	101	71226	2.532	ppbv	98
16) 1,1-Dichloroethene	2.656	61	45432	2.507	ppbv	90
17) Methylene Chloride	3.244	49	49607	2.364	ppbv#	84
21) Trichlorotrifluoroethane	2.725	101	45758	2.473	ppbv	98
26) Cis-1,2-Dichloroethene	5.098	61	36586	2.375	ppbv	91
32) 1,1,1-Trichloroethane	5.862	97	54865	2.424	ppbv	100
33) Benzene	6.407	78	42587	2.399	ppbv#	85
34) Carbon Tetrachloride	5.761	117	67467	2.486	ppbv	99
39) Trichloroethene	7.269	130	33079	2.421	ppbv	98
48) Toluene	9.136	91	61621	2.381	ppbv	98
52) Tetrachloroethene	9.605	166	38376	2.389	ppbv	95
55) Chlorobenzene	10.933	112	58914	2.319	ppbv	94
56) Ethylbenzene	11.016	91	86547	2.346	ppbv	98
57) m,p-Xylene	11.201	91	137225	4.878	ppbv	97
61) o-Xylene	11.695	91	71774	2.349	ppbv	96
71) 1,3-Dichlorobenzene	13.620	146	58743	2.445	ppbv	98
72) 1,4-Dichlorobenzene	13.711	146	55739	2.391	ppbv	98
75) 1,2-Dichlorobenzene	14.094	146	47496	2.444	ppbv	97
77) 1,2,4-Trichlorobenzene	15.251	180	26359	2.768	ppbv	97
82] Vinyl Chloride(sim)	1.721	62	24332	2.274	ppbv	99
86] Carbon Tetrachloride(sim)	5.764	117	73632	2.307	ppbv	100
87] 1,1-Dichloroethene(sim)	2.656	61	45432	2.263	ppbv	90
91] Cis-1,2-Dichloroethene...	5.098	61	36586	2.208	ppbv	91
97] Trichloroethene(sim)	7.269	130	33079	2.121	ppbv	98
103] Tetrachloroethene(sim)	9.605	166	38444	2.309	ppbv	96
107] m,p-Xylene(sim)	11.201	91	137212	4.623	ppbv	96
113] 1,4-Dichlorobenzene(sim)	13.711	146	55699	2.382	ppbv	98
118] 1,2,4-Trichlorobenzene...	15.254	180	31741	2.479	ppbv	98

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_15.D
Acq On : 21 Aug 2020 4:36 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 24 08:56:03 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_16.D
Acq On : 21 Aug 2020 5:09 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 24 08:56:58 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:56:50 2020
Response via : Initial Calibration

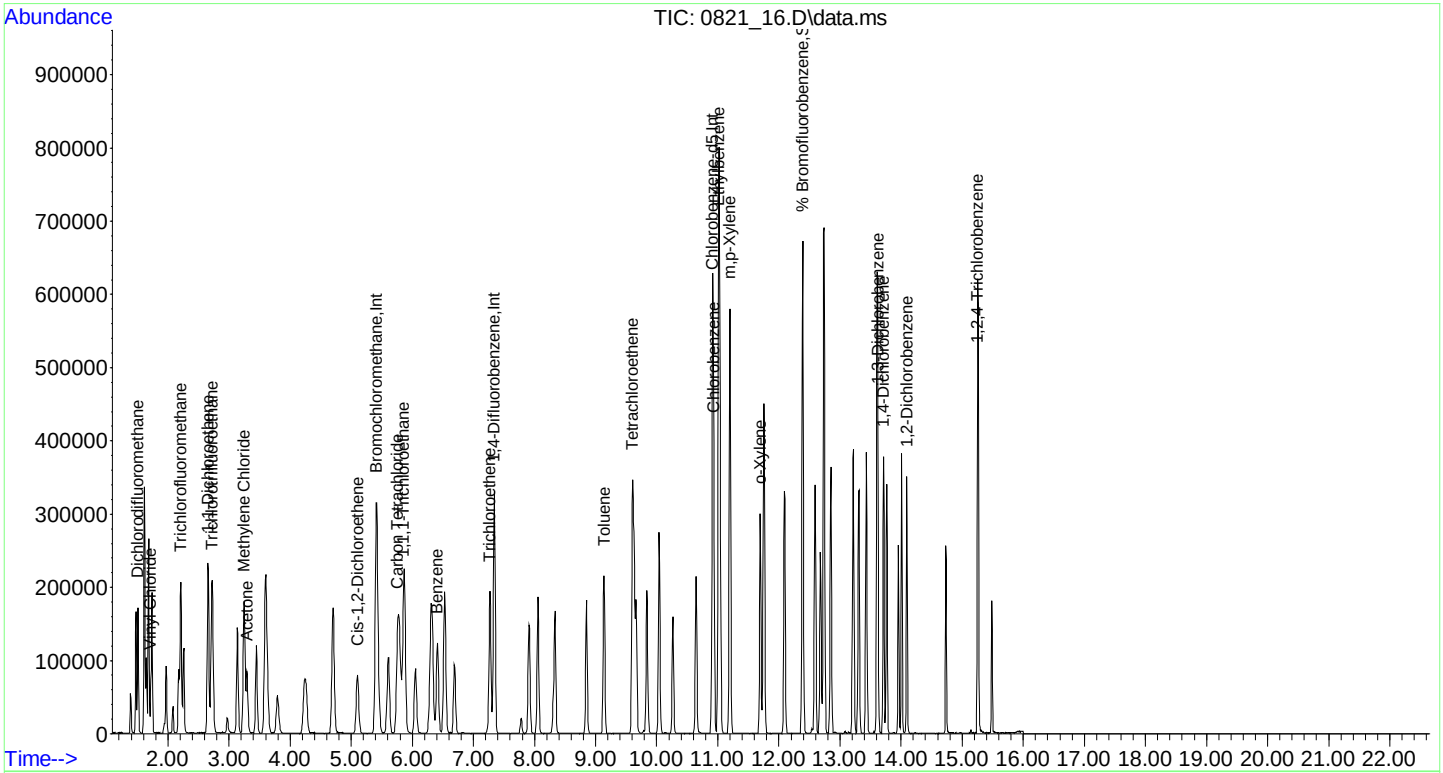
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	91703	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	278278	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	126820	10.000	ng		0.00
80) Bromochloromethane(sim)	5.413	130	102068	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	318697	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	139448	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	201472	10.378	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	108182	6.531	ppbv		99
6) Vinyl Chloride	1.718	62	49409	5.473	ppbv		99
12) Acetone	3.292	43	125093	4.632	ppbv		99
13) Trichlorofluoromethane	2.211	101	158083	5.693	ppbv		98
16) 1,1-Dichloroethene	2.656	61	99287	5.549	ppbv		98
17) Methylene Chloride	3.245	49	106628	5.147	ppbv		99
21) Trichlorotrifluoroethane	2.725	101	99992	5.474	ppbv		99
26) Cis-1,2-Dichloroethene	5.107	61	82160	5.401	ppbv		99
32) 1,1,1-Trichloroethane	5.857	97	123463	5.525	ppbv		97
33) Benzene	6.409	78	94585	5.397	ppbv		98
34) Carbon Tetrachloride	5.763	117	149392	5.575	ppbv		96
39) Trichloroethene	7.271	130	72995	5.291	ppbv		98
48) Toluene	9.138	91	136788	5.236	ppbv		100
52) Tetrachloroethene	9.608	166	84729	5.226	ppbv		99
55) Chlorobenzene	10.935	112	131686	5.238	ppbv		97
56) Ethylbenzene	11.018	91	194713	5.333	ppbv		100
57) m,p-Xylene	11.196	91	305253	10.962	ppbv		99
61) o-Xylene	11.697	91	161465	5.339	ppbv		100
71) 1,3-Dichlorobenzene	13.622	146	127717	5.370	ppbv		98
72) 1,4-Dichlorobenzene	13.713	146	121761	5.276	ppbv		100
75) 1,2-Dichlorobenzene	14.096	146	99891	5.192	ppbv		99
77) 1,2,4-Trichlorobenzene	15.252	180	43948	4.663	ppbv		99
82] Vinyl Chloride(sim)	1.721	62	55474	5.164	ppbv		100
86] Carbon Tetrachloride(sim)	5.766	117	159792	4.985	ppbv		100
87] 1,1-Dichloroethene(sim)	2.656	61	99287	4.925	ppbv		99
91] Cis-1,2-Dichloroethene...	5.107	61	82160	4.938	ppbv		99
97] Trichloroethene(sim)	7.271	130	72995	4.648	ppbv		98
103] Tetrachloroethene(sim)	9.608	166	84729	5.054	ppbv		99
107] m,p-Xylene(sim)	11.196	91	305253	10.170	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.713	146	122515	5.180	ppbv		99
118] 1,2,4-Trichlorobenzene...	15.255	180	53880	4.161	ppbv		99

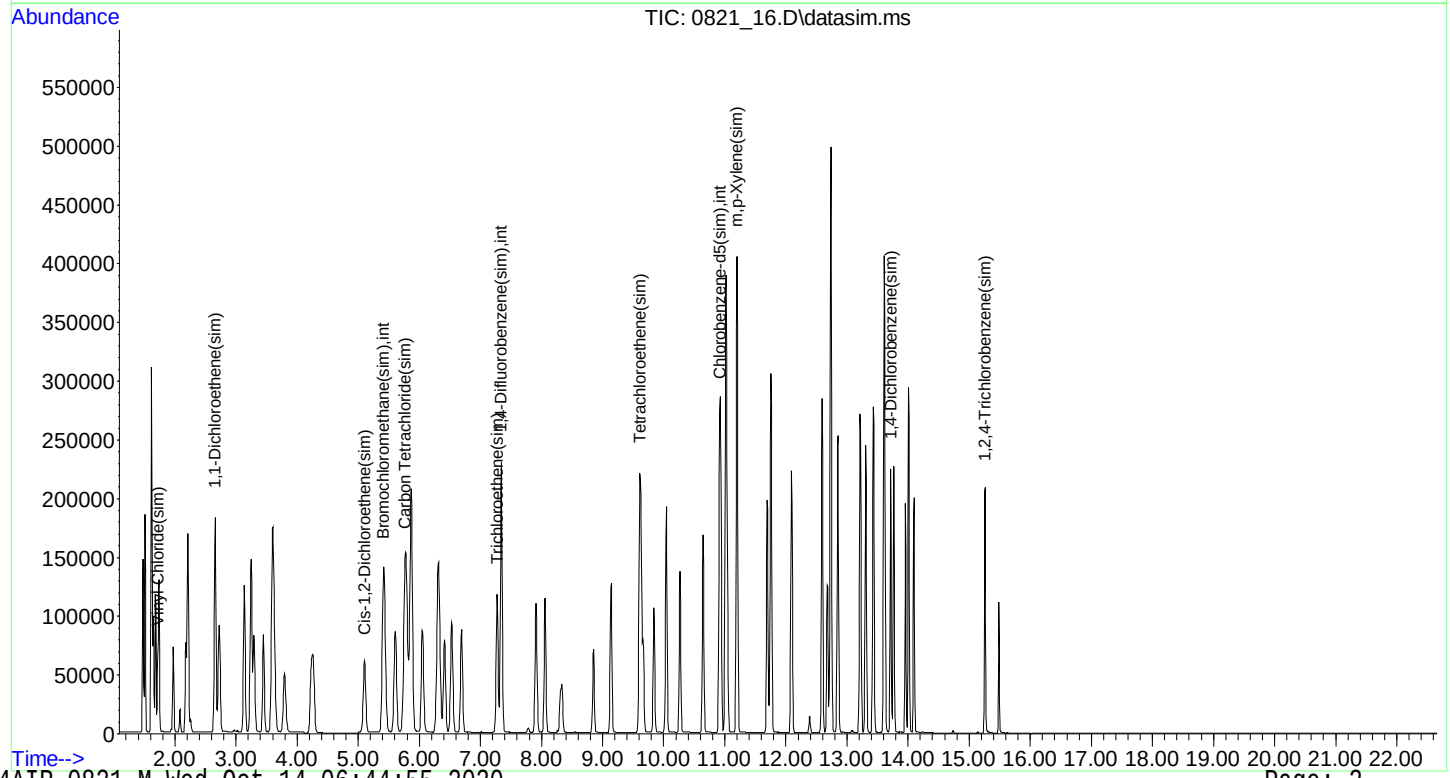
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_16.D
Acq On : 21 Aug 2020 5:09 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 24 08:56:58 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:56:50 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_17.D
Acq On : 21 Aug 2020 6:42 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 24 08:57:19 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:10 2020
Response via : Initial Calibration

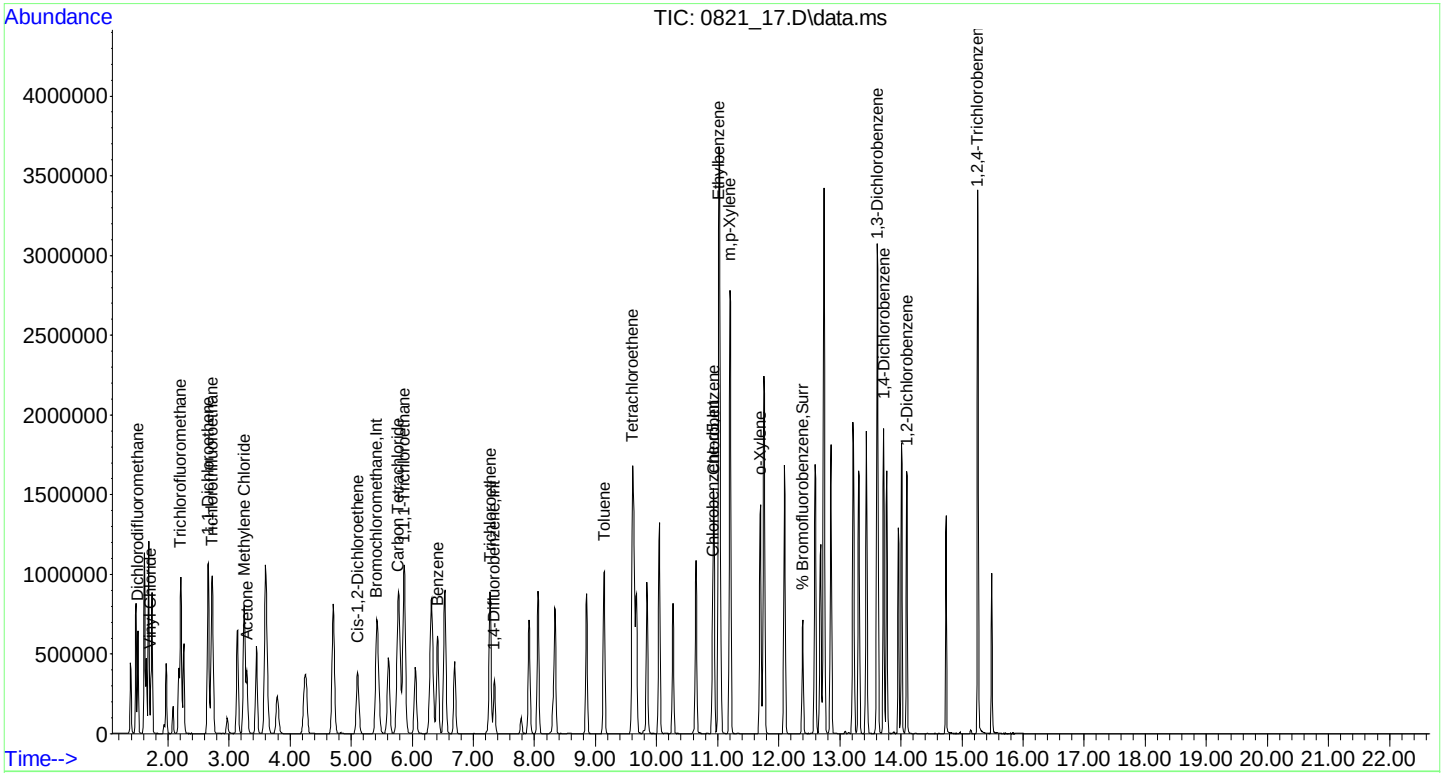
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.415	130	98597	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.345	114	288204	10.000	ng		0.00
53) Chlorobenzene-d5	10.920	82	132631	10.000	ng		0.00
80) Bromochloromethane(sim)	5.418	130	109445	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.348	114	327777	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	144716	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.393	95	217634	10.521	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.20%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	396591	22.268	ppbv		99
6) Vinyl Chloride	1.718	62	240950	24.824	ppbv		100
12) Acetone	3.292	43	664064	22.871	ppbv		94
13) Trichlorofluoromethane	2.211	101	745091	24.956	ppbv		98
16) 1,1-Dichloroethene	2.656	61	474528	24.667	ppbv		100
17) Methylene Chloride	3.251	49	486138	21.827	ppbv		99
21) Trichlorotrifluoroethane	2.725	101	473046	24.086	ppbv		100
26) Cis-1,2-Dichloroethene	5.105	61	396995	24.273	ppbv		100
32) 1,1,1-Trichloroethane	5.862	97	565515	23.540	ppbv		98
33) Benzene	6.413	78	457706	24.293	ppbv		98
34) Carbon Tetrachloride	5.768	117	693744	24.080	ppbv		97
39) Trichloroethene	7.276	130	351431	24.598	ppbv		99
48) Toluene	9.143	91	677693	25.047	ppbv		100
52) Tetrachloroethene	9.605	166	418721	24.935	ppbv		99
55) Chlorobenzene	10.940	112	658844	25.057	ppbv		99
56) Ethylbenzene	11.016	91	953625	24.974	ppbv		100
57) m,p-Xylene	11.201	91	1525361	52.376	ppbv		99
61) o-Xylene	11.702	91	808532	25.564	ppbv		99
71) 1,3-Dichlorobenzene	13.620	146	633197	25.458	ppbv		99
72) 1,4-Dichlorobenzene	13.717	146	624885	25.889	ppbv		99
75) 1,2-Dichlorobenzene	14.100	146	515438	25.617	ppbv		100
77) 1,2,4-Trichlorobenzene	15.256	180	273999	27.796	ppbv		98
82) Vinyl Chloride(sim)	1.721	62	267847	23.252	ppbv		99
86) Carbon Tetrachloride(sim)	5.771	117	757094	22.028	ppbv		100
87) 1,1-Dichloroethene(sim)	2.656	61	474528	21.953	ppbv		99
91) Cis-1,2-Dichloroethene...	5.105	61	397042	22.256	ppbv		100
97) Trichloroethene(sim)	7.276	130	351357	21.753	ppbv		99
103) Tetrachloroethene(sim)	9.605	166	418531	24.275	ppbv		99
107) m,p-Xylene(sim)	11.201	91	1525508	48.975	ppbv		99
113) 1,4-Dichlorobenzene(sim)	13.717	146	624441	25.441	ppbv		99
118) 1,2,4-Trichlorobenzene...	15.254	180	322295	23.982	ppbv		99

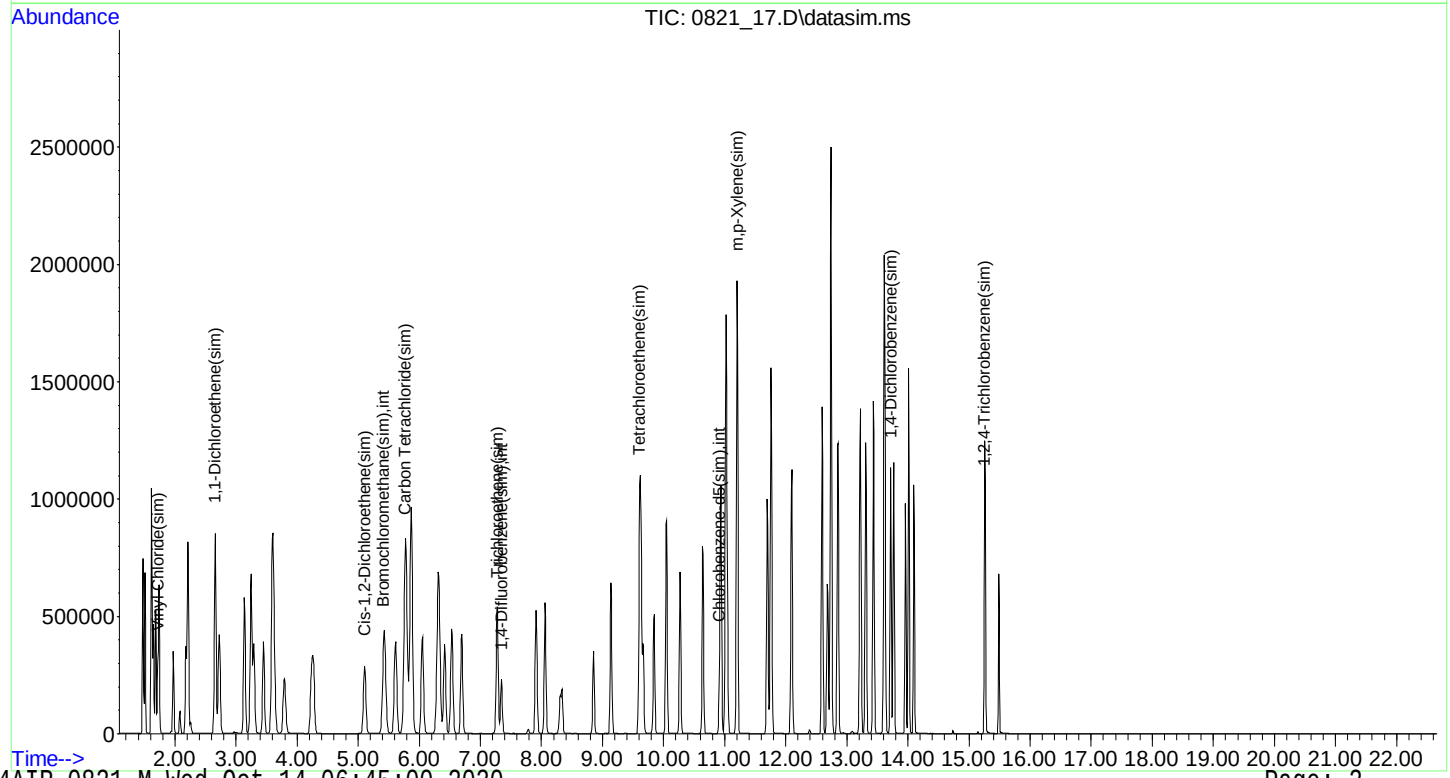
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_17.D
Acq On : 21 Aug 2020 6:42 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 24 08:57:19 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:10 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_18.D
Acq On : 21 Aug 2020 7:22 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 24 08:57:46 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:34 2020
Response via : Initial Calibration

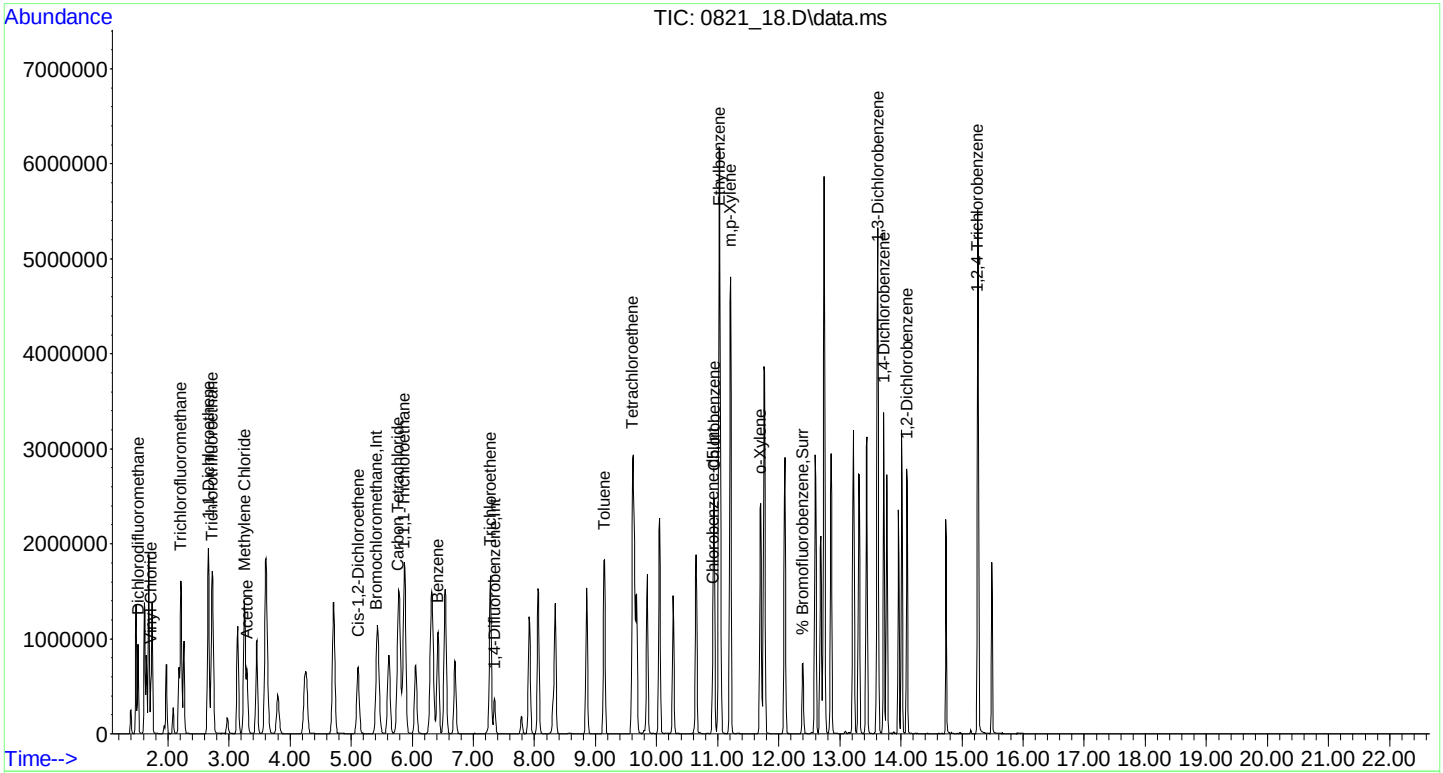
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.417	130	118862	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.347	114	326095	10.000	ng		0.00
53) Chlorobenzene-d5	10.922	82	149227	10.000	ng		0.00
80) Bromochloromethane(sim)	5.420	130	130108	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.350	114	374279	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	162076	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	236751	9.998	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	570767	26.584	ppbv		99
6) Vinyl Chloride	1.725	62	416748	35.615	ppbv		99
12) Acetone	3.292	43	1109838	31.707	ppbv		98
13) Trichlorofluoromethane	2.211	101	1251872	34.781	ppbv		99
16) 1,1-Dichloroethene	2.663	61	826918	35.657	ppbv		97
17) Methylene Chloride	3.251	49	823815	30.682	ppbv		95
21) Trichlorotrifluoroethane	2.725	101	839928	35.475	ppbv		99
26) Cis-1,2-Dichloroethene	5.114	61	718472	36.439	ppbv		97
32) 1,1,1-Trichloroethane	5.864	97	993740	34.312	ppbv		99
33) Benzene	6.422	78	856029	37.687	ppbv		96
34) Carbon Tetrachloride	5.770	117	1210798	34.862	ppbv		100
39) Trichloroethene	7.278	130	655042	40.521	ppbv		100
48) Toluene	9.146	91	1249943	40.829	ppbv		99
52) Tetrachloroethene	9.608	166	766320	40.333	ppbv		99
55) Chlorobenzene	10.942	112	1195331	40.405	ppbv		99
56) Ethylbenzene	11.025	91	1697715	39.517	ppbv		100
57) m,p-Xylene	11.210	91	2664571	81.317	ppbv		99
61) o-Xylene	11.704	91	1412565	39.695	ppbv		99
71) 1,3-Dichlorobenzene	13.622	146	1111009	39.701	ppbv		100
72) 1,4-Dichlorobenzene	13.719	146	1083343	39.892	ppbv		100
75) 1,2-Dichlorobenzene	14.096	146	871689	38.505	ppbv		99
77) 1,2,4-Trichlorobenzene	15.253	180	485738	43.796	ppbv		98
82] Vinyl Chloride(sim)	1.721	62	460949	33.660	ppbv		100
86] Carbon Tetrachloride(sim)	5.773	117	1304116	31.918	ppbv		100
87] 1,1-Dichloroethene(sim)	2.663	61	826918	32.179	ppbv		97
91] Cis-1,2-Dichloroethene...	5.114	61	719005	33.903	ppbv		97
97] Trichloroethene(sim)	7.278	130	654968	35.513	ppbv		100
103] Tetrachloroethene(sim)	9.608	166	766270	38.922	ppbv		99
107] m,p-Xylene(sim)	11.210	91	2665405	76.405	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.719	146	1083343	39.410	ppbv		100
118] 1,2,4-Trichlorobenzene...	15.256	180	562584	37.378	ppbv		99

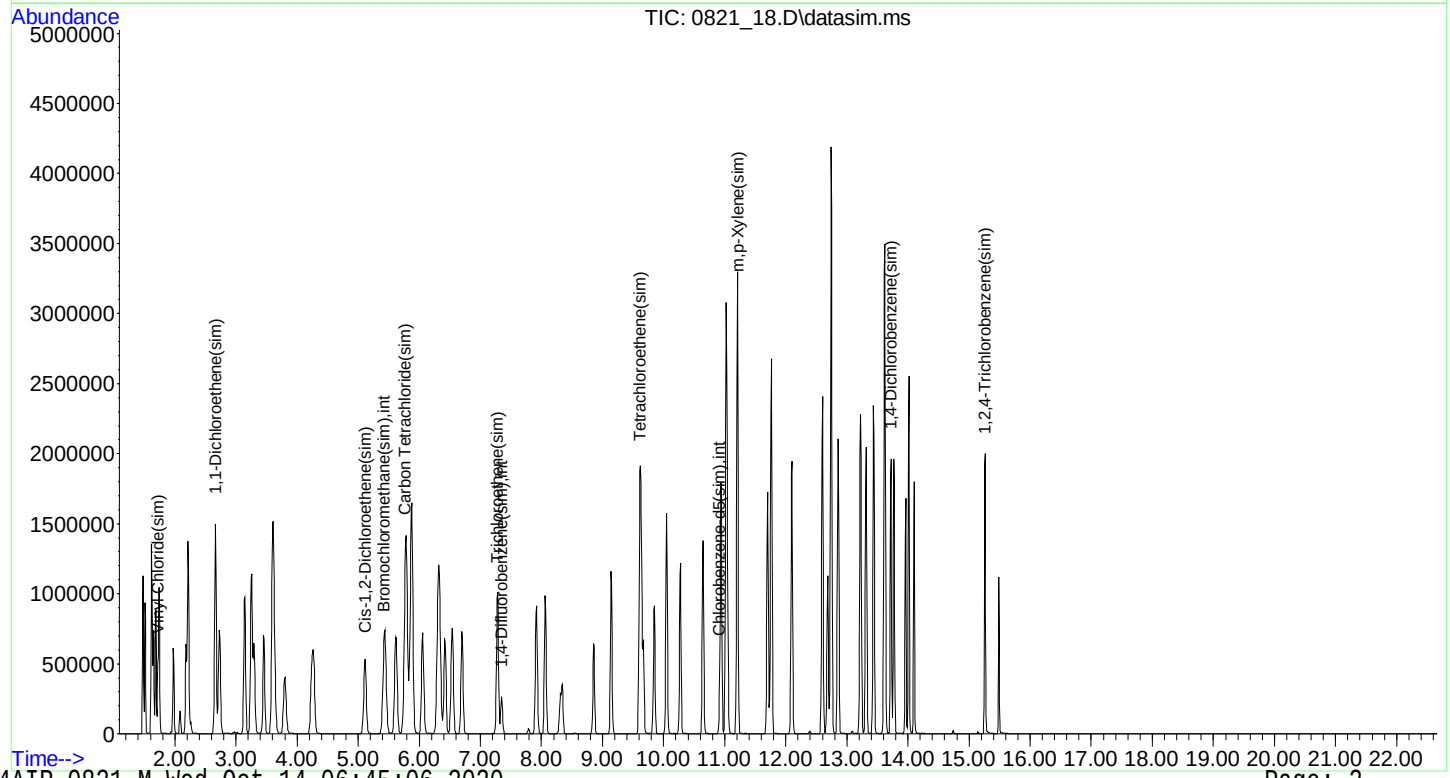
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_18.D
Acq On : 21 Aug 2020 7:22 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 24 08:57:46 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:34 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_20.D
Acq On : 21 Aug 2020 8:28 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1.0ppb cc
ALS Vial : 18 Sample Multiplier: 1

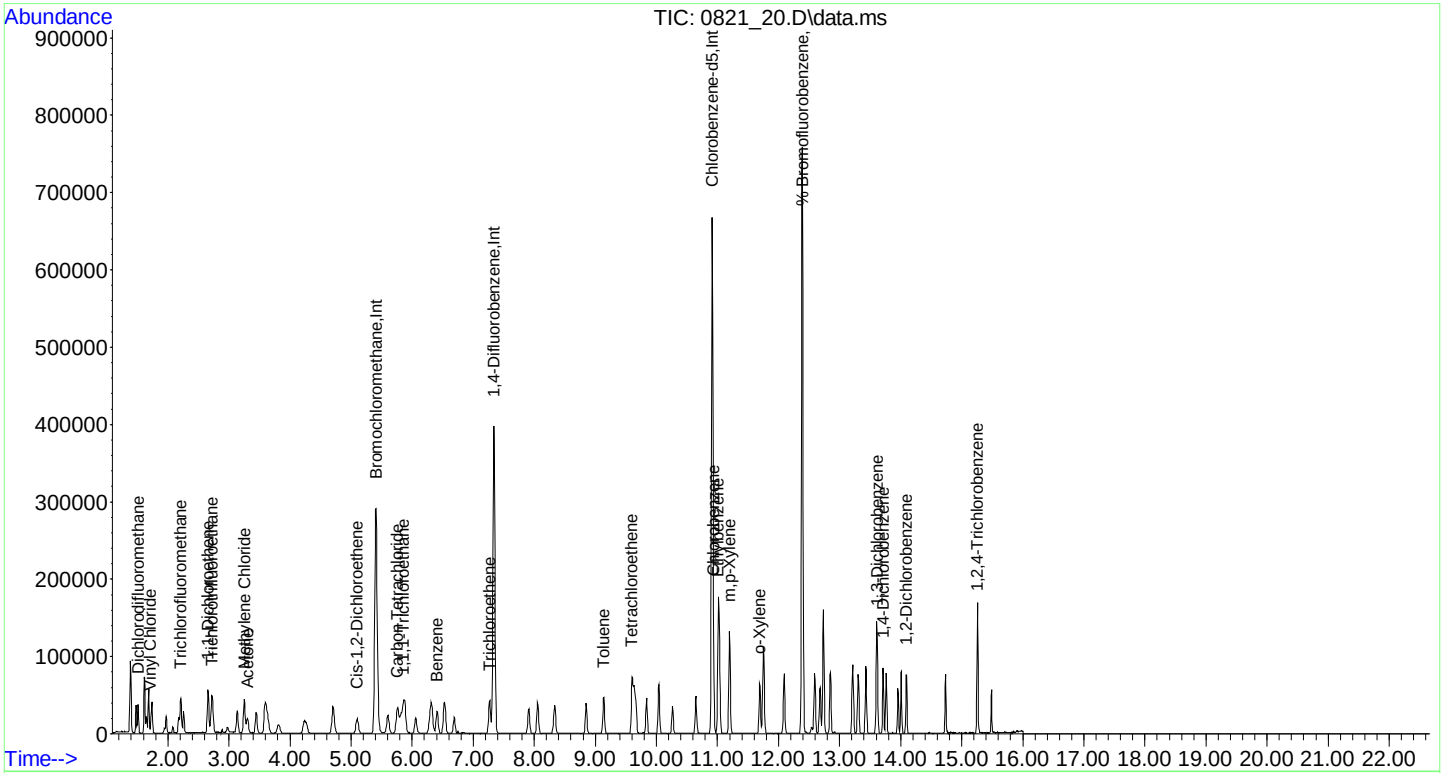
Quant Time: Aug 24 09:15:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration

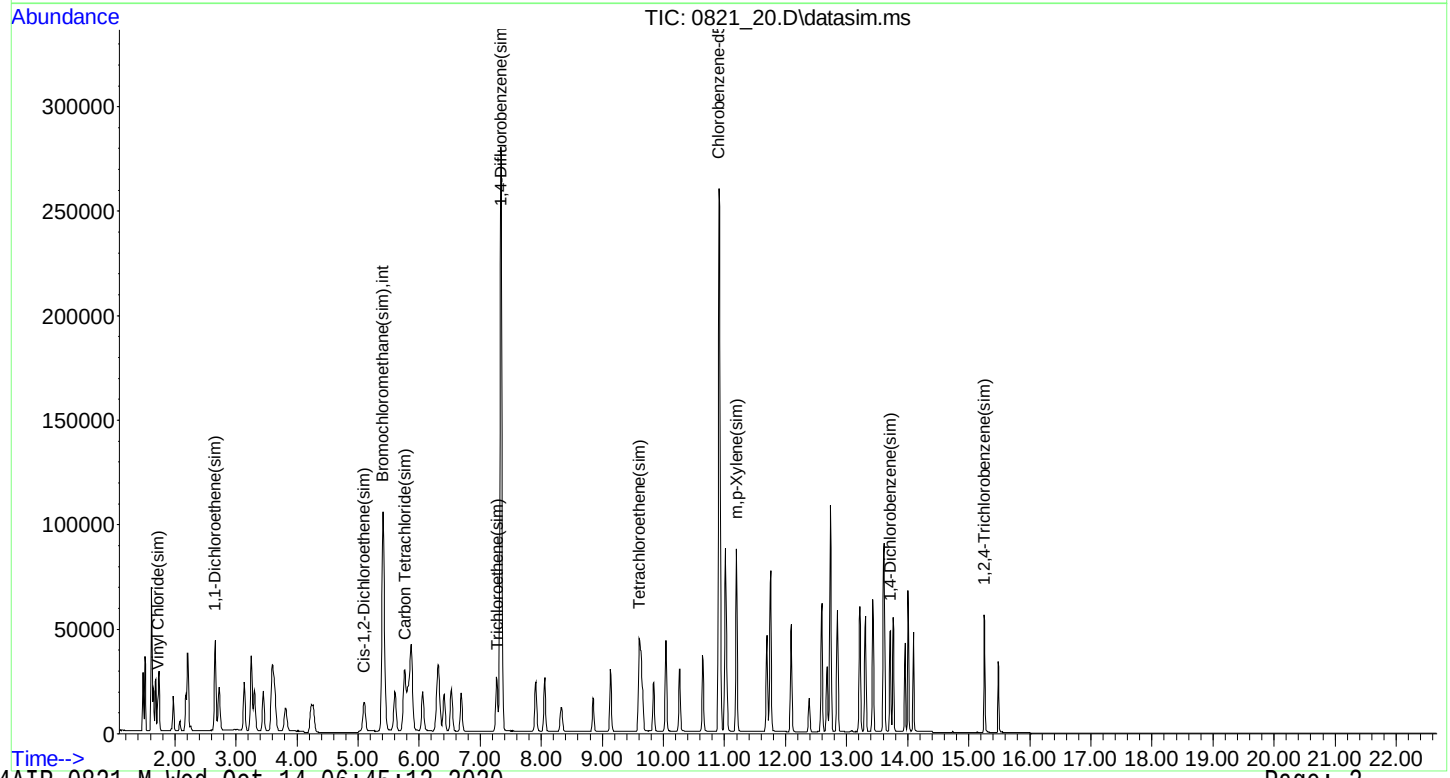
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	117268	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	359263	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	156114	10.000	ng		0.00
80) Bromochloromethane(sim)	5.406	130	127421	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	405943	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.911	82	170232	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	236345	9.708	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.10%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	22201	1.048	ppbv		97
6) Vinyl Chloride	1.718	62	11842	1.026	ppbv		100
12) Acetone	3.306	43	34220	0.991	ppbv		93
13) Trichlorofluoromethane	2.211	101	34680	0.977	ppbv		99
16) 1,1-Dichloroethene	2.656	61	22512	0.984	ppbv		98
17) Methylene Chloride	3.251	49	24346	0.919	ppbv		98
21) Trichlorotrifluoroethane	2.725	101	22973	0.983	ppbv		98
26) Cis-1,2-Dichloroethene	5.100	61	18697	0.961	ppbv		98
32) 1,1,1-Trichloroethane	5.850	97	26597	0.931	ppbv		98
33) Benzene	6.409	78	22397	0.999	ppbv		97
34) Carbon Tetrachloride	5.763	117	32835	0.958	ppbv		97
39) Trichloroethene	7.272	130	17062	0.958	ppbv		98
48) Toluene	9.138	91	31447	0.932	ppbv		99
52) Tetrachloroethene	9.600	166	19662	0.939	ppbv		97
55) Chlorobenzene	10.935	112	30347	0.981	ppbv		90
56) Ethylbenzene	11.011	91	44059	0.980	ppbv		99
57) m,p-Xylene	11.196	91	70891	2.068	ppbv		99
61) o-Xylene	11.690	91	35621	0.957	ppbv		99
71) 1,3-Dichlorobenzene	13.616	146	28694	0.980	ppbv		99
72) 1,4-Dichlorobenzene	13.713	146	28592	1.006	ppbv		99
75) 1,2-Dichlorobenzene	14.096	146	23309	0.984	ppbv		99
77) 1,2,4-Trichlorobenzene	15.252	180	13423	1.157	ppbv		99
82] Vinyl Chloride(sim)	1.721	62	12926	0.964	ppbv		100
86] Carbon Tetrachloride(sim)	5.766	117	35027	0.875	ppbv		100
87] 1,1-Dichloroethene(sim)	2.656	61	22512	0.895	ppbv		98
91] Cis-1,2-Dichloroethene...	5.100	61	18649	0.898	ppbv		97
97] Trichloroethene(sim)	7.272	130	17062	0.853	ppbv		98
103] Tetrachloroethene(sim)	9.600	166	19542	0.915	ppbv		97
107] m,p-Xylene(sim)	11.196	91	70894	1.935	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.713	146	28547	0.989	ppbv		99
118] 1,2,4-Trichlorobenzene...	15.255	180	15902	1.006	ppbv		100

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_20.D
Acq On : 21 Aug 2020 8:28 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1.0ppb cc
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 24 09:15:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_21.D
Acq On : 21 Aug 2020 9:53 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 24 09:16:10 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration

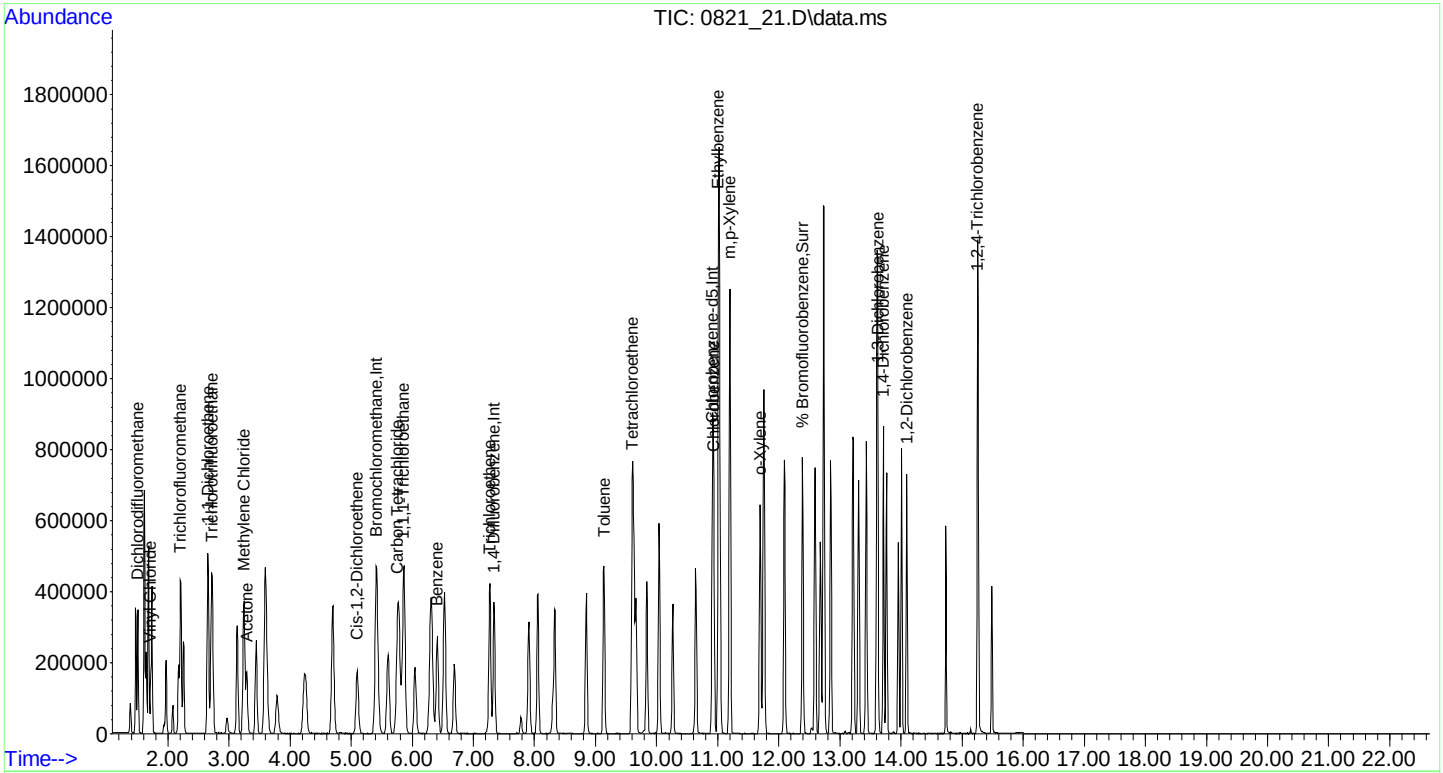
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	112694	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	332606	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	150998	10.000	ng		0.00
80) Bromochloromethane(sim)	5.406	130	123145	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	377797	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	162912	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	235553	10.003	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	206187	10.129	ppbv		100
6) Vinyl Chloride	1.718	62	113517	10.232	ppbv		100
12) Acetone	3.292	43	260114	7.838	ppbv		100
13) Trichlorofluoromethane	2.211	101	338518	9.920	ppbv		100
16) 1,1-Dichloroethene	2.656	61	216587	9.850	ppbv		100
17) Methylene Chloride	3.245	49	220075	8.645	ppbv		100
21) Trichlorotrifluoroethane	2.718	101	221586	9.871	ppbv		100
26) Cis-1,2-Dichloroethene	5.100	61	182249	9.749	ppbv		100
32) 1,1,1-Trichloroethane	5.857	97	257422	9.375	ppbv		100
33) Benzene	6.409	78	212656	9.875	ppbv		100
34) Carbon Tetrachloride	5.763	117	313847	9.531	ppbv		100
39) Trichloroethene	7.272	130	164637	9.985	ppbv		100
48) Toluene	9.138	91	313040	10.025	ppbv		100
52) Tetrachloroethene	9.600	166	194540	10.039	ppbv		100
55) Chlorobenzene	10.935	112	298737	9.979	ppbv		100
56) Ethylbenzene	11.011	91	428914	9.866	ppbv		100
57) m,p-Xylene	11.196	91	678112	20.452	ppbv		100
61) o-Xylene	11.697	91	353422	9.815	ppbv		100
71) 1,3-Dichlorobenzene	13.622	146	281967	9.958	ppbv		100
72) 1,4-Dichlorobenzene	13.713	146	277212	10.088	ppbv		100
75) 1,2-Dichlorobenzene	14.096	146	220049	9.606	ppbv		100
77) 1,2,4-Trichlorobenzene	15.253	180	106488	9.489	ppbv		100
82] Vinyl Chloride(sim)	1.721	62	126093	9.728	ppbv		100
86] Carbon Tetrachloride(sim)	5.759	117	341176	8.822	ppbv		100
87] 1,1-Dichloroethene(sim)	2.656	61	216587	8.905	ppbv		100
91] Cis-1,2-Dichloroethene...	5.100	61	182391	9.086	ppbv		100
97] Trichloroethene(sim)	7.272	130	164595	8.841	ppbv		100
103] Tetrachloroethene(sim)	9.600	166	194540	9.790	ppbv		100
107] m,p-Xylene(sim)	11.196	91	678526	19.350	ppbv		100
113] 1,4-Dichlorobenzene(sim)	13.713	146	277212	10.033	ppbv		100
118] 1,2,4-Trichlorobenzene...	15.256	180	125707	8.309	ppbv		100

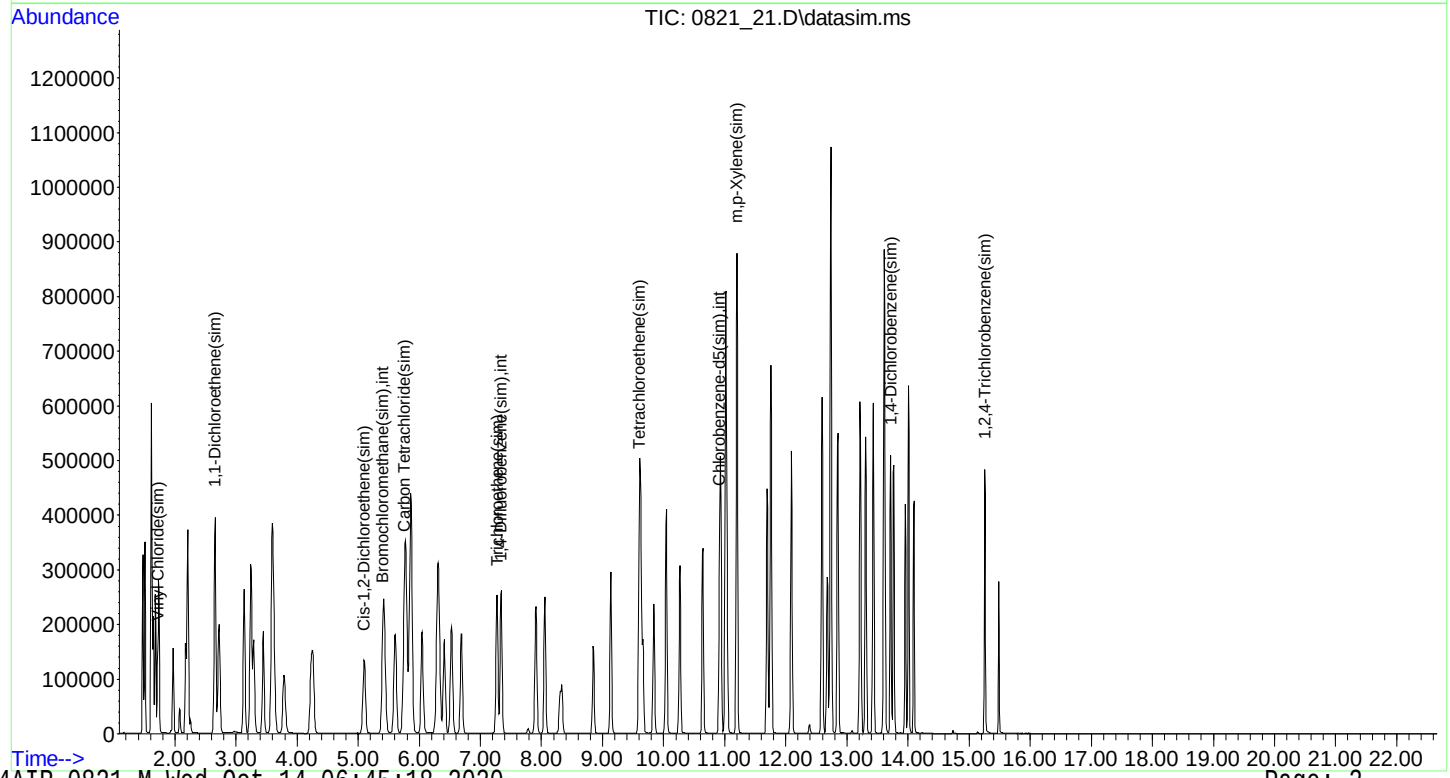
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_21.D
Acq On : 21 Aug 2020 9:53 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 24 09:16:10 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
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.: GCG61553

Instrument: CHEM24 Calibration Date: 08/25/20 Time: 05:52

Lab File Id: 0825_01.D Init. Calib. Date(s): 08/21/20 08/21/20

Heated Purge (Y/N): Y Init. Calib. Times: 13:44 21:53

GC Column: RTX-VMS Method File: 24AIR_0821_wal.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	1.806	2.163		-19.8	30
Vinyl Chloride	0.984	1.056		-7.3	30
Acetone	2.945	2.860		2.9	30
Trichlorofluoromethane	3.028	2.921		3.5	30
1,1-Dichloroethene	1.951	1.917		1.7	30
Methylene Chloride	2.259	2.073		8.2	30
Trichlorotrifluoroethane	1.992	1.958		1.7	30
Cis-1,2-Dichloroethene	1.659	1.599		3.6	30
1,1,1-Trichloroethane	2.437	2.212		9.2	30
Benzene	1.911	1.869		2.2	30
Carbon Tetrachloride	2.922	2.833		3.0	30
Trichloroethene	0.496	0.480		3.2	30
Toluene	0.939	0.868		7.6	30
Tetrachloroethene	0.583	0.571		2.1	30
Chlorobenzene	1.982	1.918		3.2	30
Ethylbenzene	2.879	2.784		3.3	30
m,p-Xylene	2.196	1.777		19.1	30
o-Xylene	2.385	2.243		6.0	30
1,3-Dichlorobenzene	1.875	1.847		1.5	30
1,4-Dichlorobenzene	1.820	1.720		5.5	30
1,2-Dichlorobenzene	1.517	1.515		0.1	30
1,2,4-Trichlorobenzene	0.743	0.769		-3.5	30
Vinyl Chloride(sim)	1.053	0.963		8.5	30
Carbon Tetrachloride(sim)	3.140	2.738		12.8	30
1,1-Dichloroethene(sim)	1.975	1.749		11.4	30
Cis-1,2-Dichloroethene(sim)	1.630	1.458		10.6	30
Trichloroethene(sim)	0.493	0.523		-6.1	30
Tetrachloroethene(sim)	0.526	0.625		-18.8	30
m,p-Xylene(sim)	2.152	2.397		-11.4	30
1,4-Dichlorobenzene(sim)	1.696	2.043		-20.5	30
% Bromofluorobenzene	1.559	1.543		1.0	30

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

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

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_01.D
Acq On : 25 Aug 2020 5:52 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 170 Sample Multiplier: 1

Quant Time: Oct 13 15:43:25 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
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	97
2		Dichlorodifluoromethane	1.806	2.163	-19.8	
3		Vinyl Chloride	0.984	1.056	-7.3	
4		Acetone	2.945	2.860	2.9	
5		Trichlorofluoromethane	3.028	2.921	3.5	
6		1,1-Dichloroethene	1.951	1.917	1.7	
7		Methylene Chloride	2.259	2.073	8.2	
8		Trichlorotrifluoroethane	1.992	1.958	1.7	
10		Cis-1,2-Dichloroethene	1.659	1.599	3.6	
12		1,1,1-Trichloroethane	2.437	2.212	9.2	
13		Benzene	1.911	1.869	2.2	
14		Carbon Tetrachloride	2.922	2.833	3.0	
15	Int	1,4-Difluorobenzene	1.000	1.000	0.0	97
17		Trichloroethene	0.496	0.480	3.2	
18		Toluene	0.939	0.868	7.6	
19		Tetrachloroethene	0.583	0.571	2.1	
20	Int	Chlorobenzene-d5	1.000	1.000	0.0	97
21		Chlorobenzene	1.982	1.918	3.2	
22		Ethylbenzene	2.879	2.784	3.3	
23		m,p-Xylene	2.196	1.777	19.1	
24		o-Xylene	2.385	2.243	6.0	
25	Surr	% Bromofluorobenzene	1.559	1.543	1.0	
26		1,3-Dichlorobenzene	1.875	1.847	1.5	
27		1,4-Dichlorobenzene	1.820	1.720	5.5	
28		1,2-Dichlorobenzene	1.517	1.515	0.1	
29		1,2,4-Trichlorobenzene	0.743	0.769	-3.5	
30	int	Bromochloromethane(sim)	1.000	1.000	0.0	98
31		Vinyl Chloride(sim)	1.053	0.963	8.5	
34		Carbon Tetrachloride(sim)	3.140	2.738	12.8	
35		1,1-Dichloroethene(sim)	1.975	1.749	11.4	
39		Cis-1,2-Dichloroethene(sim)	1.630	1.458	10.6	
41	int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	86
44		Trichloroethene(sim)	0.493	0.523	-6.1	
46		Tetrachloroethene(sim)	0.526	0.625	-18.8	
47	int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	89
48		m,p-Xylene(sim)	2.152	2.397	-11.4	
50		1,4-Dichlorobenzene(sim)	1.696	2.043	-20.5	

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_01.D
Acq On : 25 Aug 2020 5:52 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 170 Sample Multiplier: 1

Quant Time: Oct 13 15:43:25 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration

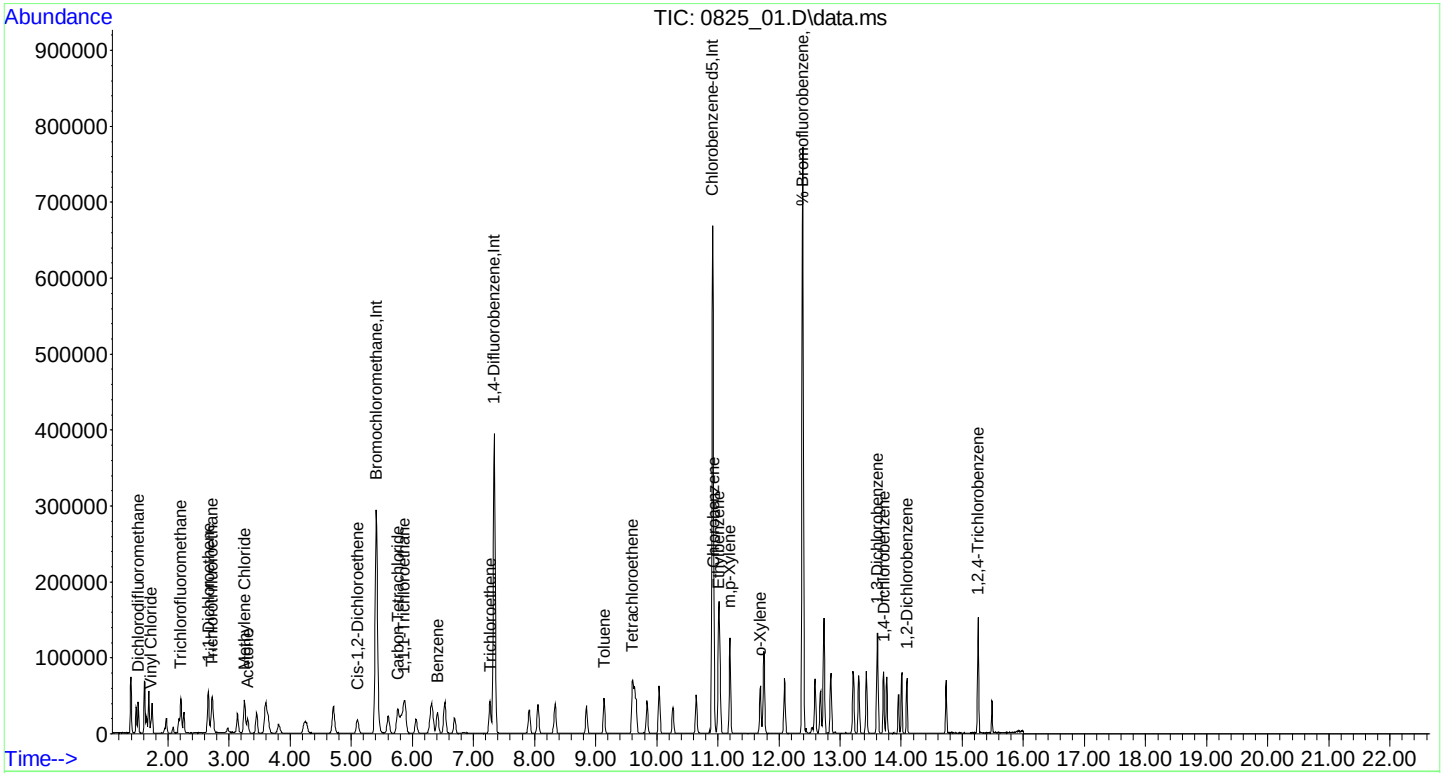
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	113735	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	349323	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	151809	10.000	ng		0.00
30) Bromochloromethane(sim)	5.413	130	124673	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	349323	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	151809	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.389	95	234313	9.897	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.00%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	24602	1.198	ppbv		97
3) Vinyl Chloride	1.725	62	12006	1.072	ppbv		97
4) Acetone	3.306	43	32533	0.971	ppbv		94
5) Trichlorofluoromethane	2.211	101	33219	0.965	ppbv		96
6) 1,1-Dichloroethene	2.663	61	21800	0.982	ppbv		96
7) Methylene Chloride	3.251	49	23575	0.918	ppbv		99
8) Trichlorotrifluoroethane	2.724	101	22265	0.983	ppbv		99
10) Cis-1,2-Dichloroethene	5.107	61	18183	0.964	ppbv		99
12) 1,1,1-Trichloroethane	5.857	97	25163	0.908	ppbv		95
13) Benzene	6.415	78	21252	0.978	ppbv		98
14) Carbon Tetrachloride	5.770	117	32217	0.969	ppbv		99
17) Trichloroethene	7.271	130	16757	0.968	ppbv		98
18) Toluene	9.138	91	30323	0.925	ppbv		99
19) Tetrachloroethene	9.600	166	19934	0.979	ppbv		98
21) Chlorobenzene	10.935	112	29116	0.967	ppbv		91
22) Ethylbenzene	11.011	91	42263	0.967	ppbv		99
23) m,p-Xylene	11.196	91	67431	2.023	ppbv		99
24) o-Xylene	11.697	91	34051	0.941	ppbv		98
26) 1,3-Dichlorobenzene	13.615	146	28035	0.985	ppbv		99
27) 1,4-Dichlorobenzene	13.713	146	26117	0.945	ppbv		95
28) 1,2-Dichlorobenzene	14.095	146	22997	0.999	ppbv		99
29) 1,2,4-Trichlorobenzene	15.253	180	11678	1.035	ppbv		99
31) Vinyl Chloride(sim)	1.725	62	12006	0.915	ppbv		97
34) Carbon Tetrachloride(sim)	5.766	117	34136	0.872	ppbv		99
35) 1,1-Dichloroethene(sim)	2.663	61	21800	0.885	ppbv		96
39) Cis-1,2-Dichloroethene...	5.107	61	18183	0.895	ppbv		99
44) Trichloroethene(sim)	7.274	130	18253	1.060	ppbv		99
46) Tetrachloroethene(sim)	9.603	166	21825	1.188	ppbv		98
48) m,p-Xylene(sim)	11.199	91	72788	2.228	ppbv		99
50) 1,4-Dichlorobenzene(sim)	13.716	146	31010	1.204	ppbv		99

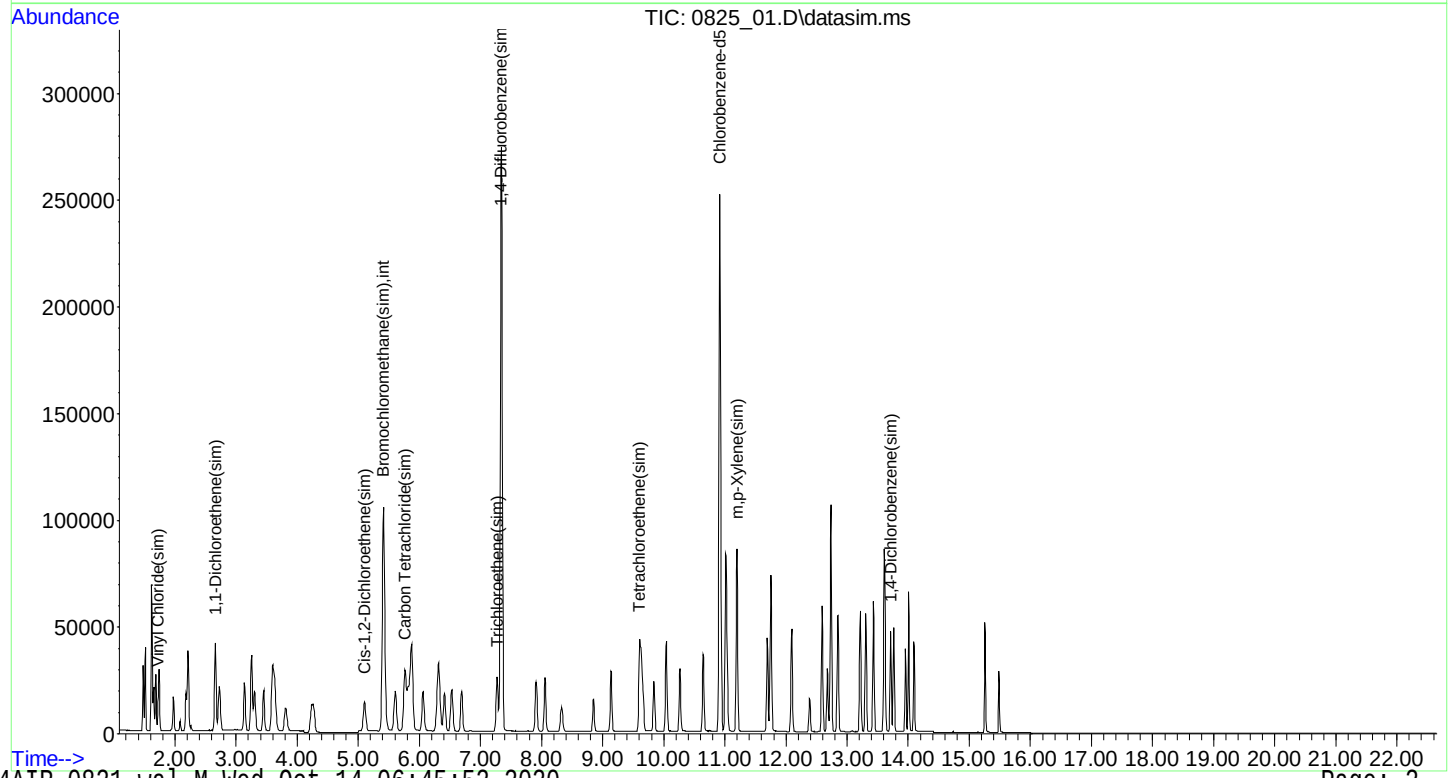
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_01.D
Acq On : 25 Aug 2020 5:52 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 170 Sample Multiplier: 1

Quant Time: Oct 13 15:43:25 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
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.: GCG61553

Instrument: CHEM24 Calibration Date: 08/26/20 Time: 05:21

Lab File Id: 0826_01.D Init. Calib. Date(s): 08/21/20 08/21/20

Heated Purge (Y/N): Y Init. Calib. Times: 13:44 21:53

GC Column: RTX-VMS Method File: 24AIR_0821_wal.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	1.806	2.170		-20.2	30
Vinyl Chloride	0.984	0.985		-0.1	30
Acetone	2.945	3.370		-14.4	30
Trichlorofluoromethane	3.028	3.246		-7.2	30
1,1-Dichloroethene	1.951	2.065		-5.8	30
Methylene Chloride	2.259	2.383		-5.5	30
Trichlorotrifluoroethane	1.992	2.132		-7.0	30
Cis-1,2-Dichloroethene	1.659	1.698		-2.4	30
1,1,1-Trichloroethane	2.437	2.560		-5.0	30
Benzene	1.911	1.886		1.3	30
Carbon Tetrachloride	2.922	3.083		-5.5	30
Trichloroethene	0.496	0.528		-6.5	30
Toluene	0.939	0.895		4.7	30
Tetrachloroethene	0.583	0.567		2.7	30
Chlorobenzene	1.982	1.894		4.4	30
Ethylbenzene	2.879	2.754		4.3	30
m,p-Xylene	2.196	1.768		19.5	30
o-Xylene	2.385	2.339		1.9	30
1,3-Dichlorobenzene	1.875	1.816		3.1	30
1,4-Dichlorobenzene	1.820	1.838		-1.0	30
1,2-Dichlorobenzene	1.517	1.523		-0.4	30
1,2,4-Trichlorobenzene	0.743	0.752		-1.2	30
Vinyl Chloride(sim)	1.053	0.900		14.5	30
Carbon Tetrachloride(sim)	3.140	3.098		1.3	30
1,1-Dichloroethene(sim)	1.975	1.888		4.4	30
Cis-1,2-Dichloroethene(sim)	1.630	1.553		4.7	30
Trichloroethene(sim)	0.493	0.552		-12.0	30
Tetrachloroethene(sim)	0.526	0.659		-25.3	30
m,p-Xylene(sim)	2.152	2.458		-14.2	30
1,4-Dichlorobenzene(sim)	1.696	2.101		-23.9	30
% Bromofluorobenzene	1.559	1.537		1.4	30

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

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

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Oct 13 15:44:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
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	74
2		Dichlorodifluoromethane	1.806	2.170	-20.2	
3		Vinyl Chloride	0.984	0.985	-0.1	
4		Acetone	2.945	3.370	-14.4	
5		Trichlorofluoromethane	3.028	3.246	-7.2	
6		1,1-Dichloroethene	1.951	2.065	-5.8	
7		Methylene Chloride	2.259	2.383	-5.5	
8		Trichlorotrifluoroethane	1.992	2.132	-7.0	
10		Cis-1,2-Dichloroethene	1.659	1.698	-2.4	
12		1,1,1-Trichloroethane	2.437	2.560	-5.0	
13		Benzene	1.911	1.886	1.3	
14		Carbon Tetrachloride	2.922	3.083	-5.5	
15	Int	1,4-Difluorobenzene	1.000	1.000	0.0	73
17		Trichloroethene	0.496	0.528	-6.5	
18		Toluene	0.939	0.895	4.7	
19		Tetrachloroethene	0.583	0.567	2.7	
20	Int	Chlorobenzene-d5	1.000	1.000	0.0	77
21		Chlorobenzene	1.982	1.894	4.4	
22		Ethylbenzene	2.879	2.754	4.3	
23		m,p-Xylene	2.196	1.768	19.5	
24		o-Xylene	2.385	2.339	1.9	
25	Surr	% Bromofluorobenzene	1.559	1.537	1.4	
26		1,3-Dichlorobenzene	1.875	1.816	3.1	
27		1,4-Dichlorobenzene	1.820	1.838	-1.0	
28		1,2-Dichlorobenzene	1.517	1.523	-0.4	
29		1,2,4-Trichlorobenzene	0.743	0.752	-1.2	
30	int	Bromochloromethane(sim)	1.000	1.000	0.0	75
31		Vinyl Chloride(sim)	1.053	0.900	14.5	
34		Carbon Tetrachloride(sim)	3.140	3.098	1.3	
35		1,1-Dichloroethene(sim)	1.975	1.888	4.4	
39		Cis-1,2-Dichloroethene(sim)	1.630	1.553	4.7	
41	int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	65
44		Trichloroethene(sim)	0.493	0.552	-12.0	
46		Tetrachloroethene(sim)	0.526	0.659	-25.3	
47	int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	71
48		m,p-Xylene(sim)	2.152	2.458	-14.2	
50		1,4-Dichlorobenzene(sim)	1.696	2.101	-23.9	

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Oct 13 15:44:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

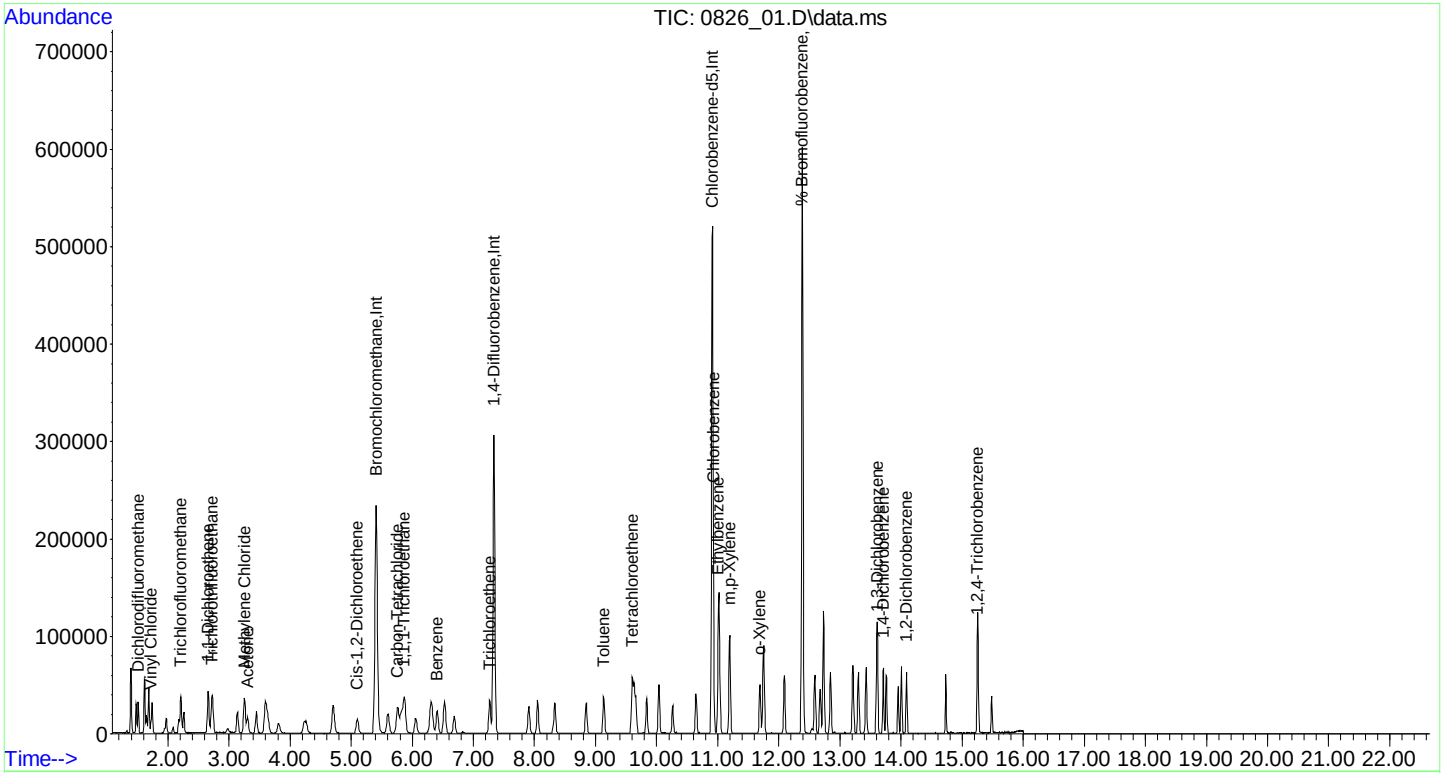
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	86894	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	262040	10.000	ng		0.00
20) Chlorobenzene-d5	10.908	82	120042	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	95039	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	262040	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.908	82	120042	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.382	95	184564	9.859	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.60%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	18856	1.201	ppbv		99
3) Vinyl Chloride	1.725	62	8558	1.000	ppbv		98
4) Acetone	3.306	43	29280	1.144	ppbv	#	89
5) Trichlorofluoromethane	2.211	101	28204	1.072	ppbv		100
6) 1,1-Dichloroethene	2.656	61	17945	1.058	ppbv		96
7) Methylene Chloride	3.251	49	20709	1.055	ppbv		96
8) Trichlorotrifluoroethane	2.725	101	18522	1.070	ppbv		97
10) Cis-1,2-Dichloroethene	5.100	61	14758	1.024	ppbv		99
12) 1,1,1-Trichloroethane	5.864	97	22246	1.051	ppbv		98
13) Benzene	6.409	78	16384	0.987	ppbv		93
14) Carbon Tetrachloride	5.756	117	26792	1.055	ppbv		97
17) Trichloroethene	7.265	130	13835	1.065	ppbv		92
18) Toluene	9.131	91	23461	0.954	ppbv		97
19) Tetrachloroethene	9.600	166	14851	0.973	ppbv		96
21) Chlorobenzene	10.928	112	22733	0.955	ppbv		89
22) Ethylbenzene	11.011	91	33063	0.957	ppbv		98
23) m,p-Xylene	11.196	91	53058	2.013	ppbv		100
24) o-Xylene	11.690	91	28081	0.981	ppbv		94
26) 1,3-Dichlorobenzene	13.615	146	21794	0.968	ppbv		99
27) 1,4-Dichlorobenzene	13.713	146	22063	1.010	ppbv		98
28) 1,2-Dichlorobenzene	14.089	146	18278	1.004	ppbv		98
29) 1,2,4-Trichlorobenzene	15.248	180	9029	1.012	ppbv		94
31] Vinyl Chloride(sim)	1.725	62	8558	0.856	ppbv		98
34] Carbon Tetrachloride(sim)	5.759	117	29440	0.986	ppbv		100
35] 1,1-Dichloroethene(sim)	2.656	61	17945	0.956	ppbv		96
39] Cis-1,2-Dichloroethene...	5.100	61	14758	0.953	ppbv		99
44] Trichloroethene(sim)	7.268	130	14458	1.120	ppbv		98
46] Tetrachloroethene(sim)	9.603	166	17277	1.253	ppbv		100
48] m,p-Xylene(sim)	11.192	91	59019	2.284	ppbv		99
50] 1,4-Dichlorobenzene(sim)	13.709	146	25218	1.239	ppbv		99

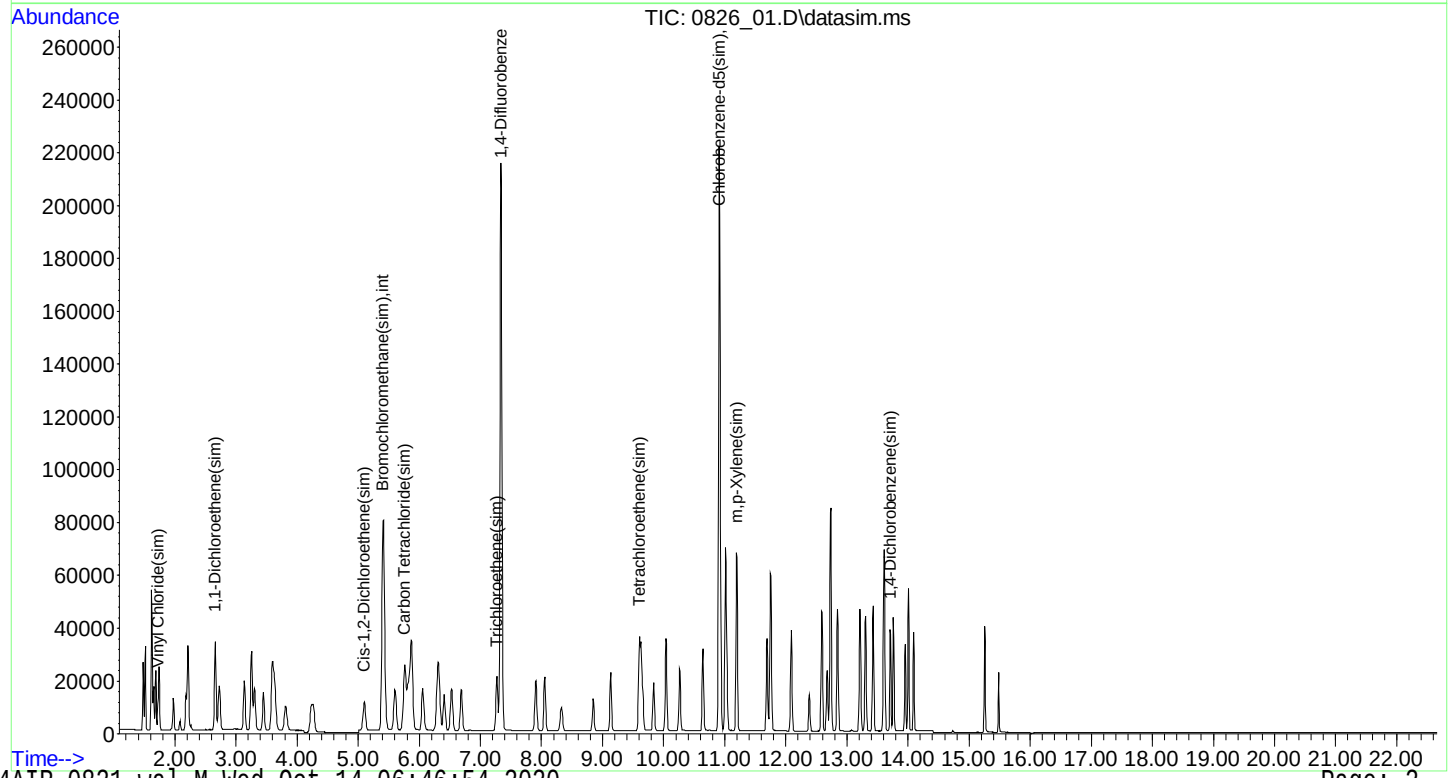
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Oct 13 15:44:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





AIR ANALYSIS DATA SHEET

CLIENT ID: CG61560 LCS

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61560 LCS

Canister: LCS Lab File ID: 0825_03.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	8.70		0.200	0.200	r
75-01-4	Vinyl Chloride	10.8		0.020	0.020	r
67-64-1	Acetone	8.36		1.00	1.00	r
75-69-4	Trichlorofluoromethane	10.1		0.150	0.150	r
75-35-4	1,1-Dichloroethene	10.2		0.050	0.050	r
75-09-2	Methylene Chloride	8.92		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	10.3		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.2		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	9.86		0.200	0.200	r
71-43-2	Benzene	10.4		0.050	0.050	r
56-23-5	Carbon Tetrachloride	10.1		0.020	0.020	r
79-01-6	Trichloroethene	10.2		0.037	0.037	r
108-88-3	Toluene	10.1		0.200	0.200	r
127-18-4	Tetrachloroethene	10.3		0.100	0.100	r
108-90-7	Chlorobenzene	10.3		0.200	0.200	r
100-41-4	Ethylbenzene	10.4		0.150	0.150	r
179601-23-1	m,p-Xylene	21.3		0.150	0.150	r
95-47-6	o-Xylene	10.3		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.4		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.5		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	10.3		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.09		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_03.D
Acq On : 25 Aug 2020 7:03 am
Operator : Keith
Client ID : CG61560 LCS
Lab ID : CG61560 LCS
ALS Vial : 172 Sample Multiplier: 1

Quant Time: Oct 13 15:43:30 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

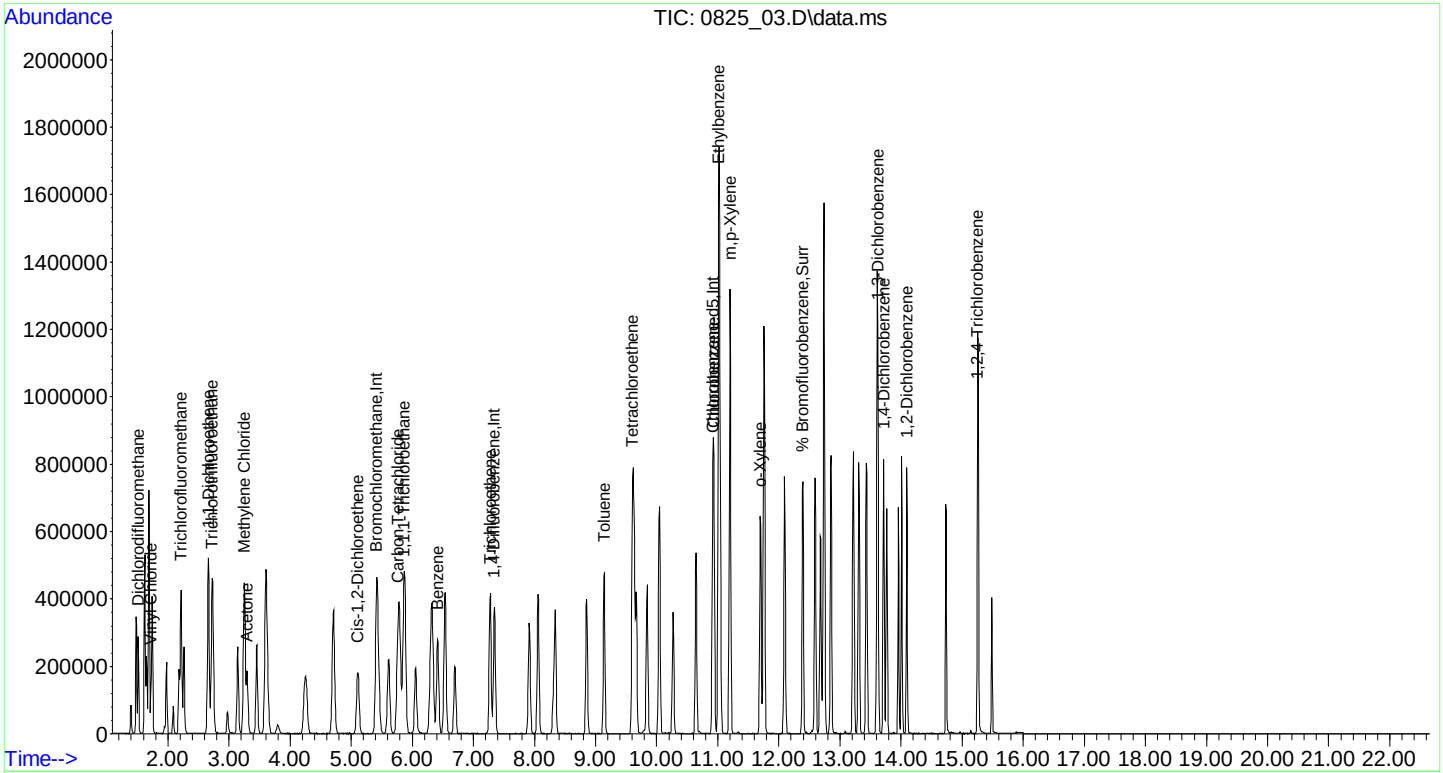
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.415	130	109925	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.345	114	334781	10.000	ng		0.00
20) Chlorobenzene-d5	10.920	82	149703	10.000	ng		0.00
30) Bromochloromethane(sim)	5.418	130	119610	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.345	114	334781	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.920	82	149703	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.394	95	236750	10.141	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.513	85	172724	8.699	ppbv		100
3) Vinyl Chloride	1.725	62	117178	10.828	ppbv		100
4) Acetone	3.299	43	270633	8.360	ppbv		99
5) Trichlorofluoromethane	2.218	101	336028	10.095	ppbv		99
6) 1,1-Dichloroethene	2.663	61	218235	10.175	ppbv		99
7) Methylene Chloride	3.252	49	221574	8.923	ppbv		99
8) Trichlorotrifluoroethane	2.725	101	226166	10.329	ppbv		99
10) Cis-1,2-Dichloroethene	5.105	61	186361	10.220	ppbv		99
12) 1,1,1-Trichloroethane	5.862	97	263991	9.856	ppbv		99
13) Benzene	6.414	78	217450	10.352	ppbv		100
14) Carbon Tetrachloride	5.768	117	324603	10.106	ppbv		99
17) Trichloroethene	7.277	130	168552	10.156	ppbv		99
18) Toluene	9.143	91	318587	10.137	ppbv		99
19) Tetrachloroethene	9.605	166	201517	10.331	ppbv		98
21) Chlorobenzene	10.934	112	304519	10.261	ppbv		99
22) Ethylbenzene	11.016	91	446310	10.355	ppbv		99
23) m,p-Xylene	11.201	91	699153	21.269	ppbv		100
24) o-Xylene	11.695	91	366461	10.265	ppbv		100
26) 1,3-Dichlorobenzene	13.620	146	292196	10.408	ppbv		100
27) 1,4-Dichlorobenzene	13.717	146	284567	10.445	ppbv		99
28) 1,2-Dichlorobenzene	14.094	146	234843	10.341	ppbv		99
29) 1,2,4-Trichlorobenzene	15.251	180	101155	9.092	ppbv		98
31) Vinyl Chloride(sim)	1.725	62	117178	9.308	ppbv		100
34) Carbon Tetrachloride(sim)	5.771	117	348104	9.268	ppbv		99
35) 1,1-Dichloroethene(sim)	2.663	61	218235	9.238	ppbv		99
39) Cis-1,2-Dichloroethene...	5.105	61	186361	9.559	ppbv		98
44) Trichloroethene(sim)	7.279	130	186905	11.330	ppbv		99
46) Tetrachloroethene(sim)	9.608	166	225745	12.819	ppbv		98
48) m,p-Xylene(sim)	11.204	91	773159	23.995	ppbv		99
50) 1,4-Dichlorobenzene(sim)	13.714	146	329330	12.970	ppbv		99

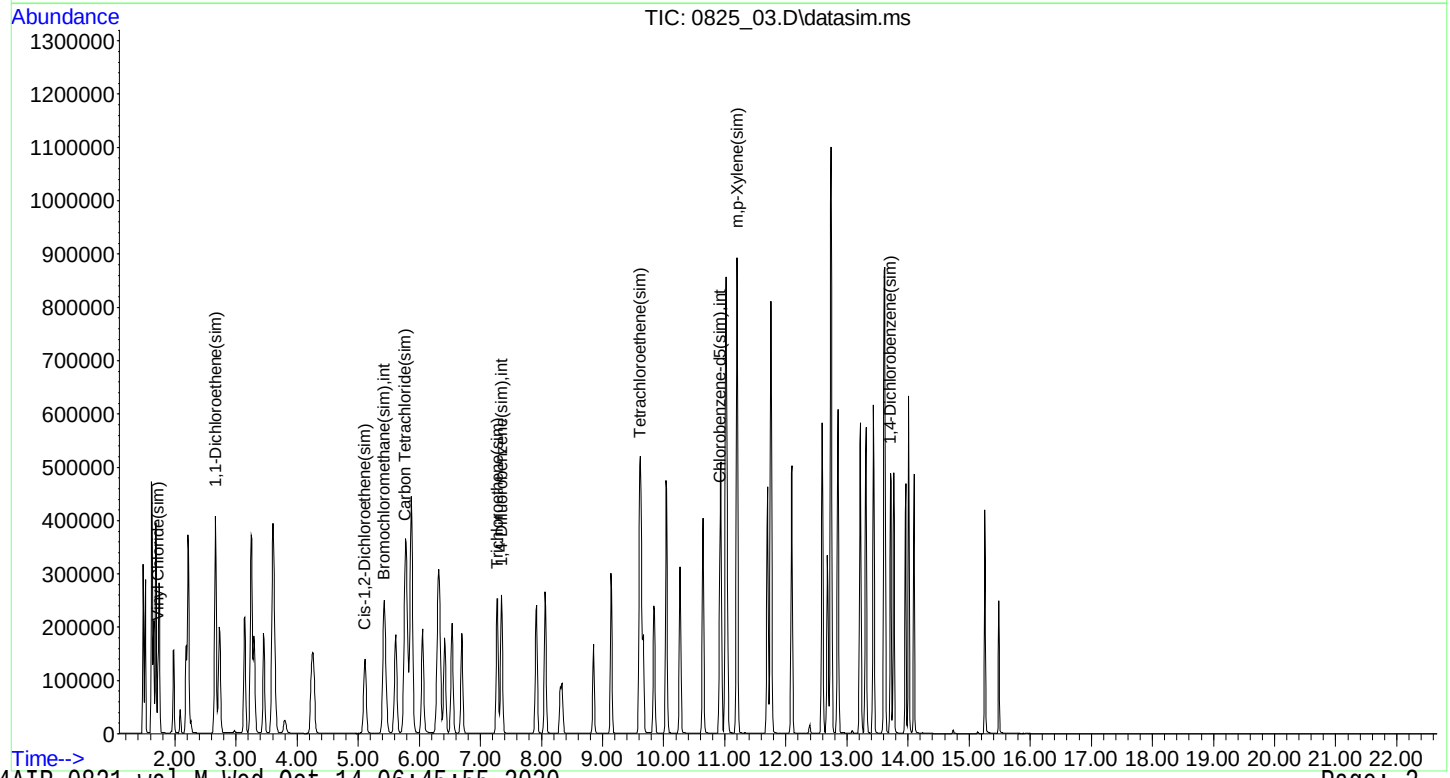
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_03.D
Acq On : 25 Aug 2020 7:03 am
Operator : Keith
Client ID : CG61560 LCS
Lab ID : CG61560 LCS
ALS Vial : 172 Sample Multiplier: 1

Quant Time: Oct 13 15:43:30 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61560 LCSD

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61560 LCS

Canister: LCS Lab File ID: 0825_04.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	7.72		0.200	0.200	r
75-01-4	Vinyl Chloride	10.4		0.020	0.020	r
67-64-1	Acetone	8.16		1.00	1.00	r
75-69-4	Trichlorofluoromethane	9.67		0.150	0.150	r
75-35-4	1,1-Dichloroethene	9.87		0.050	0.050	r
75-09-2	Methylene Chloride	8.65		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	9.94		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	9.96		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	9.44		0.200	0.200	r
71-43-2	Benzene	10.1		0.050	0.050	r
56-23-5	Carbon Tetrachloride	9.76		0.020	0.020	r
79-01-6	Trichloroethene	9.83		0.037	0.037	r
108-88-3	Toluene	9.91		0.200	0.200	r
127-18-4	Tetrachloroethene	9.83		0.100	0.100	r
108-90-7	Chlorobenzene	10.2		0.200	0.200	r
100-41-4	Ethylbenzene	9.99		0.150	0.150	r
179601-23-1	m,p-Xylene	20.9		0.150	0.150	r
95-47-6	o-Xylene	10.0		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.2		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.2		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	10.1		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	8.85		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_04.D
Acq On : 25 Aug 2020 7:40 am
Operator : Keith
Client ID : CG61560 LCSD
Lab ID : CG61560 LCSD
ALS Vial : 173 Sample Multiplier: 1

Quant Time: Oct 13 15:43:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

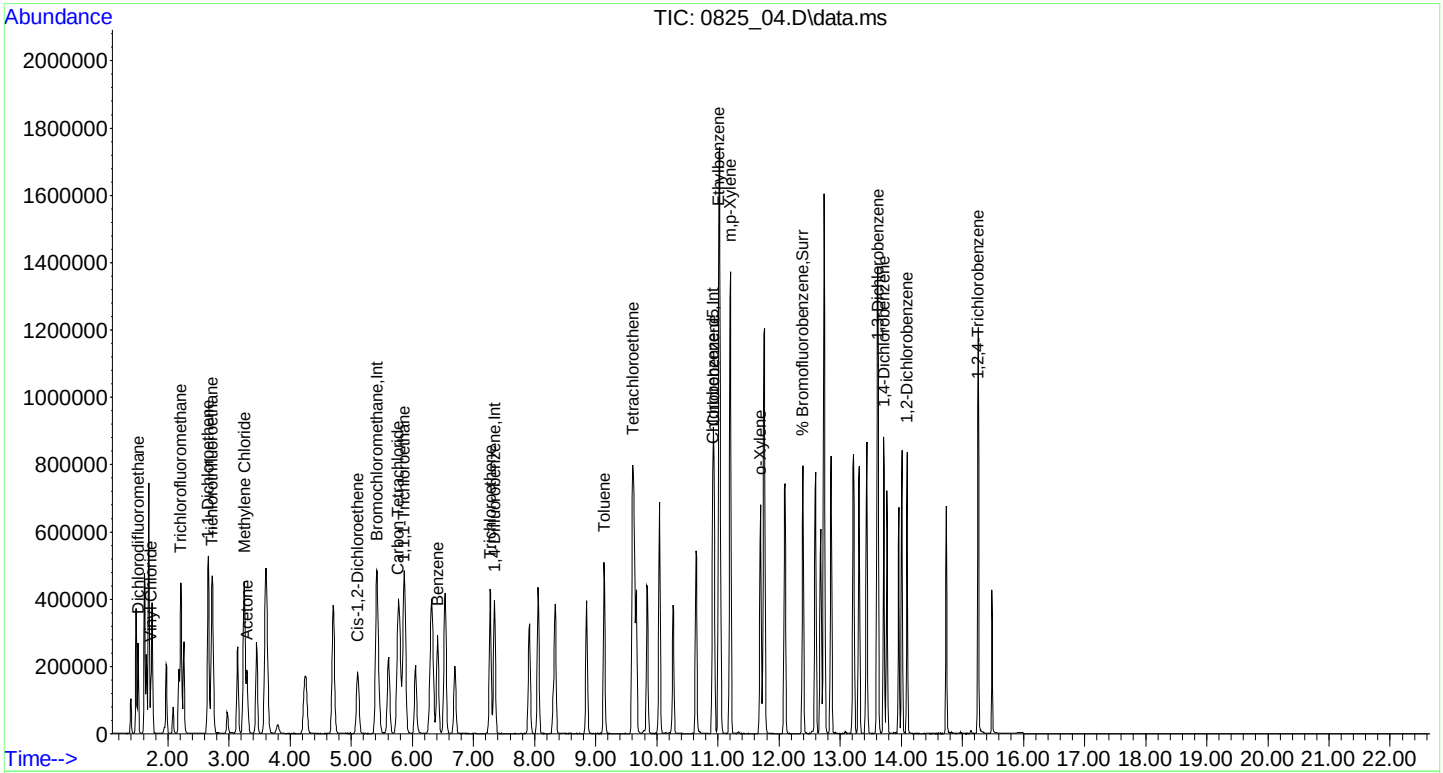
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.417	130	115587	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.347	114	358291	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	158447	10.000	ng		0.00
30) Bromochloromethane(sim)	5.413	130	126740	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.347	114	358291	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	158447	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.389	95	248317	10.050	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.513	85	161209	7.721	ppbv		99
3) Vinyl Chloride	1.725	62	118794	10.440	ppbv		100
4) Acetone	3.292	43	277568	8.155	ppbv		98
5) Trichlorofluoromethane	2.211	101	338399	9.668	ppbv		99
6) 1,1-Dichloroethene	2.656	61	222678	9.874	ppbv		99
7) Methylene Chloride	3.251	49	225900	8.652	ppbv		98
8) Trichlorotrifluoroethane	2.725	101	228740	9.935	ppbv		99
10) Cis-1,2-Dichloroethene	5.107	61	191018	9.962	ppbv		98
12) 1,1,1-Trichloroethane	5.857	97	265771	9.437	ppbv		99
13) Benzene	6.416	78	223665	10.126	ppbv		100
14) Carbon Tetrachloride	5.770	117	329658	9.761	ppbv		99
17) Trichloroethene	7.272	130	174541	9.827	ppbv		99
18) Toluene	9.138	91	333371	9.911	ppbv		100
19) Tetrachloroethene	9.608	166	205218	9.830	ppbv		99
21) Chlorobenzene	10.935	112	320032	10.188	ppbv		100
22) Ethylbenzene	11.018	91	455705	9.990	ppbv		100
23) m,p-Xylene	11.203	91	726323	20.876	ppbv		99
24) o-Xylene	11.697	91	378716	10.023	ppbv		100
26) 1,3-Dichlorobenzene	13.622	146	302301	10.174	ppbv		99
27) 1,4-Dichlorobenzene	13.713	146	293778	10.188	ppbv		99
28) 1,2-Dichlorobenzene	14.096	146	241511	10.047	ppbv		100
29) 1,2,4-Trichlorobenzene	15.252	180	104210	8.849	ppbv		99
31) Vinyl Chloride(sim)	1.725	62	118794	8.905	ppbv		100
34) Carbon Tetrachloride(sim)	5.766	117	354463	8.906	ppbv		100
35) 1,1-Dichloroethene(sim)	2.656	61	222678	8.896	ppbv		99
39) Cis-1,2-Dichloroethene...	5.107	61	190974	9.244	ppbv		98
44) Trichloroethene(sim)	7.274	130	193056	10.935	ppbv		99
46) Tetrachloroethene(sim)	9.603	166	232379	12.330	ppbv		98
48) m,p-Xylene(sim)	11.199	91	797127	23.373	ppbv		99
50) 1,4-Dichlorobenzene(sim)	13.716	146	337987	12.577	ppbv		99

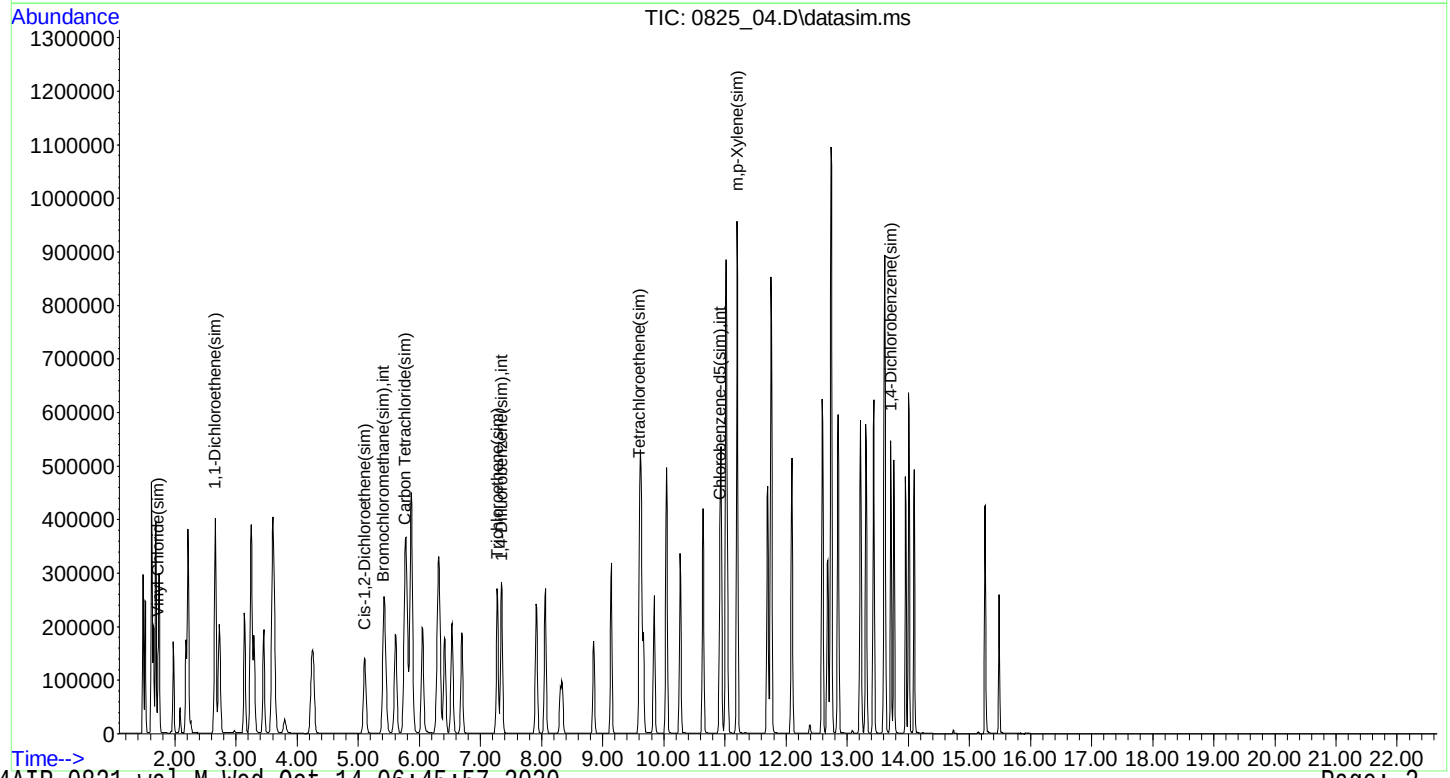
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_04.D
Acq On : 25 Aug 2020 7:40 am
Operator : Keith
Client ID : CG61560 LCSD
Lab ID : CG61560 LCSD
ALS Vial : 173 Sample Multiplier: 1

Quant Time: Oct 13 15:43:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61560 BLANK

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61560 BL

Canister: BL Lab File ID: 0825_06.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/25/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_06.D
Acq On : 25 Aug 2020 8:43 am
Operator : Keith
Client ID : CG61560 BLANK
Lab ID : CG61560 BLANK
ALS Vial : 175 Sample Multiplier: 1

Quant Time: Oct 13 15:43:40 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

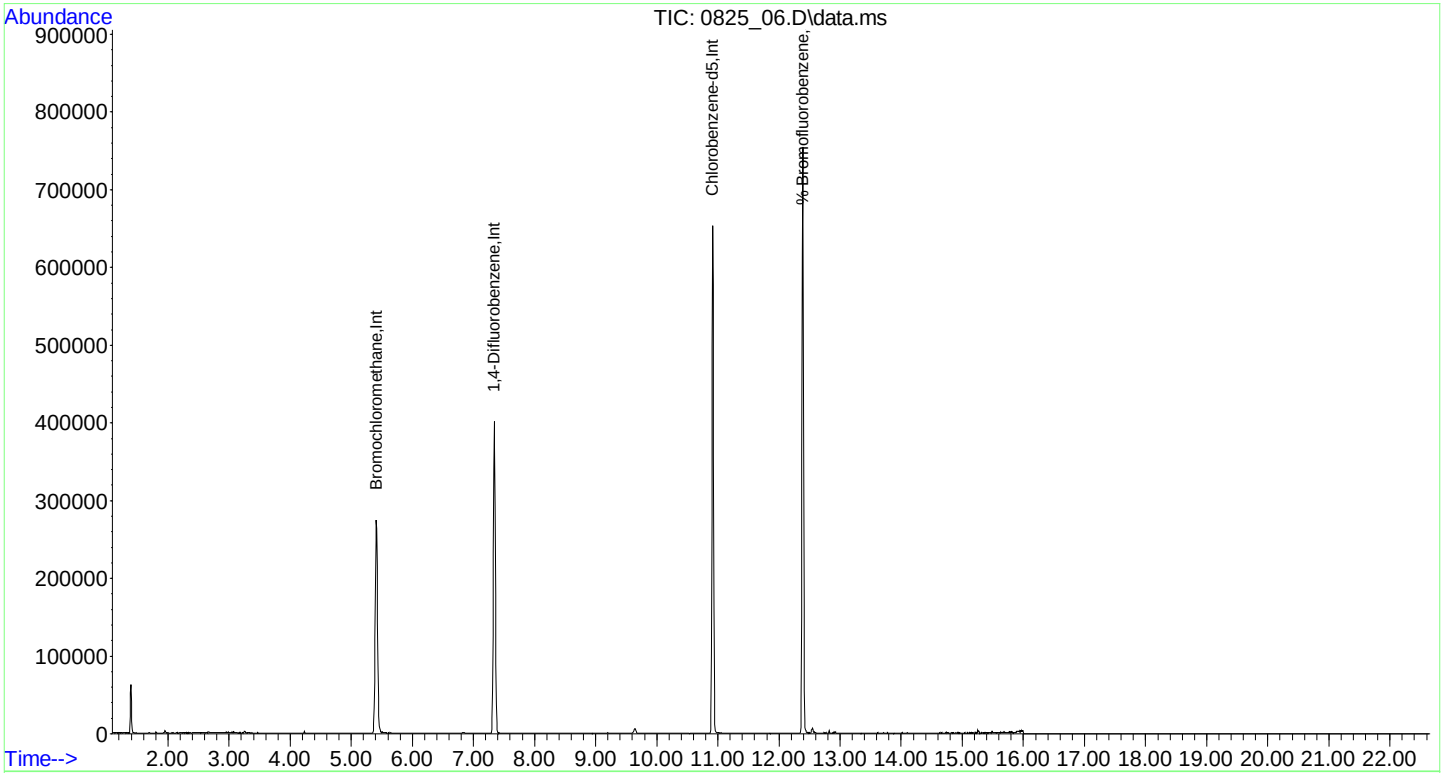
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	116476	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	359332	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	154428	10.000	ng		0.00
30) Bromochloromethane(sim)	5.413	130	126285	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	359332	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	154428	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.389	95	236364	9.815	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.10%				
Target Compounds							Qvalue

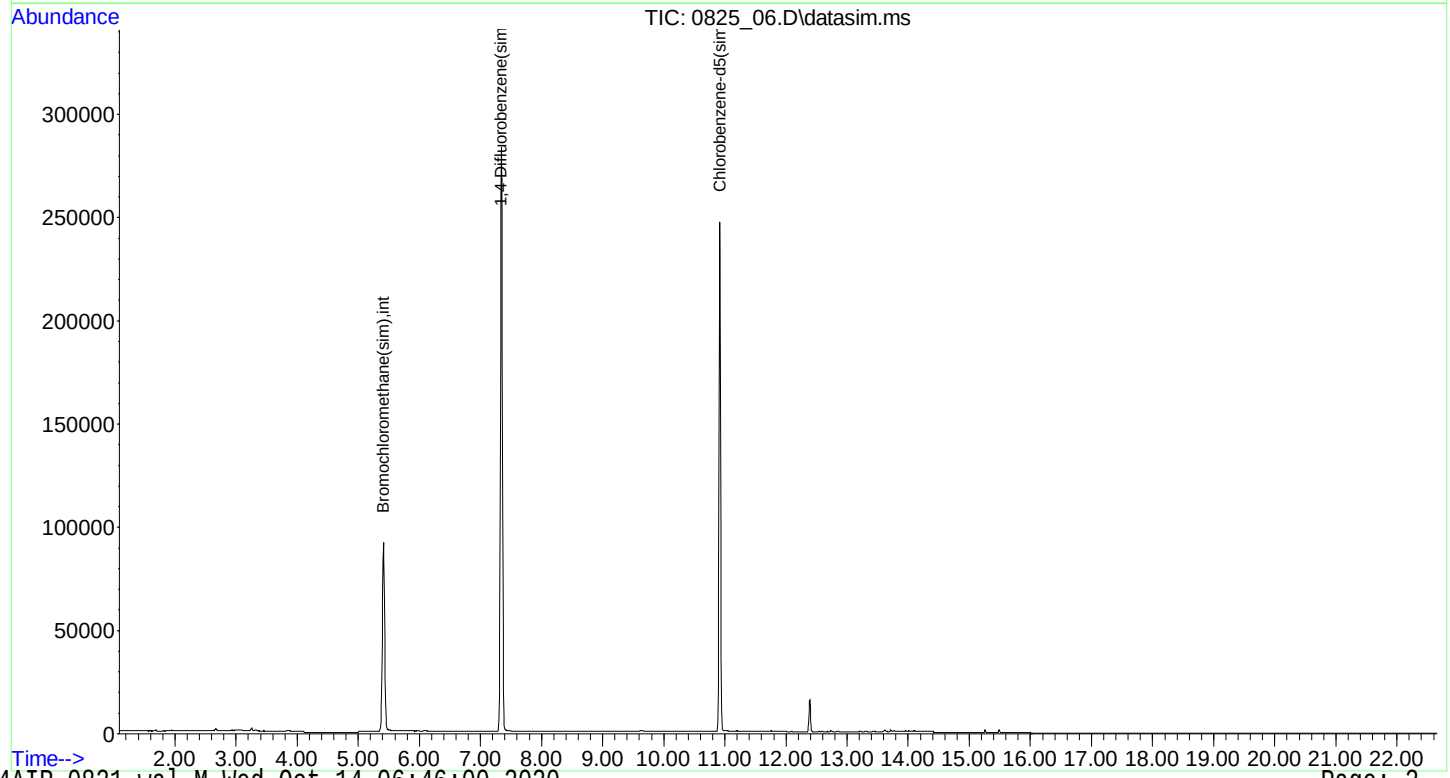
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_06.D
Acq On : 25 Aug 2020 8:43 am
Operator : Keith
Client ID : CG61560 BLANK
Lab ID : CG61560 BLANK
ALS Vial : 175 Sample Multiplier: 1

Quant Time: Oct 13 15:43:40 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-2 (NW COLUMN Z4) DUP

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61560 DUP

Canister: 23330 Lab File ID: 0825_32.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.369		0.200	0.200	r
67-64-1	Acetone	5.65	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	6.03		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.266		0.050	0.050	r
108-88-3	Toluene	0.767		0.200	0.200	r
127-18-4	Tetrachloroethene	0.507		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene	0.388		0.150	0.150	r
95-47-6	o-Xylene	0.171		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.072		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_32.D
Acq On : 26 Aug 2020 3:11 am
Operator : Keith
Sample : 61560 340cc dupe
Misc :
ALS Vial : 201 Sample Multiplier: 1

Quant Time: Oct 13 15:44:07 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

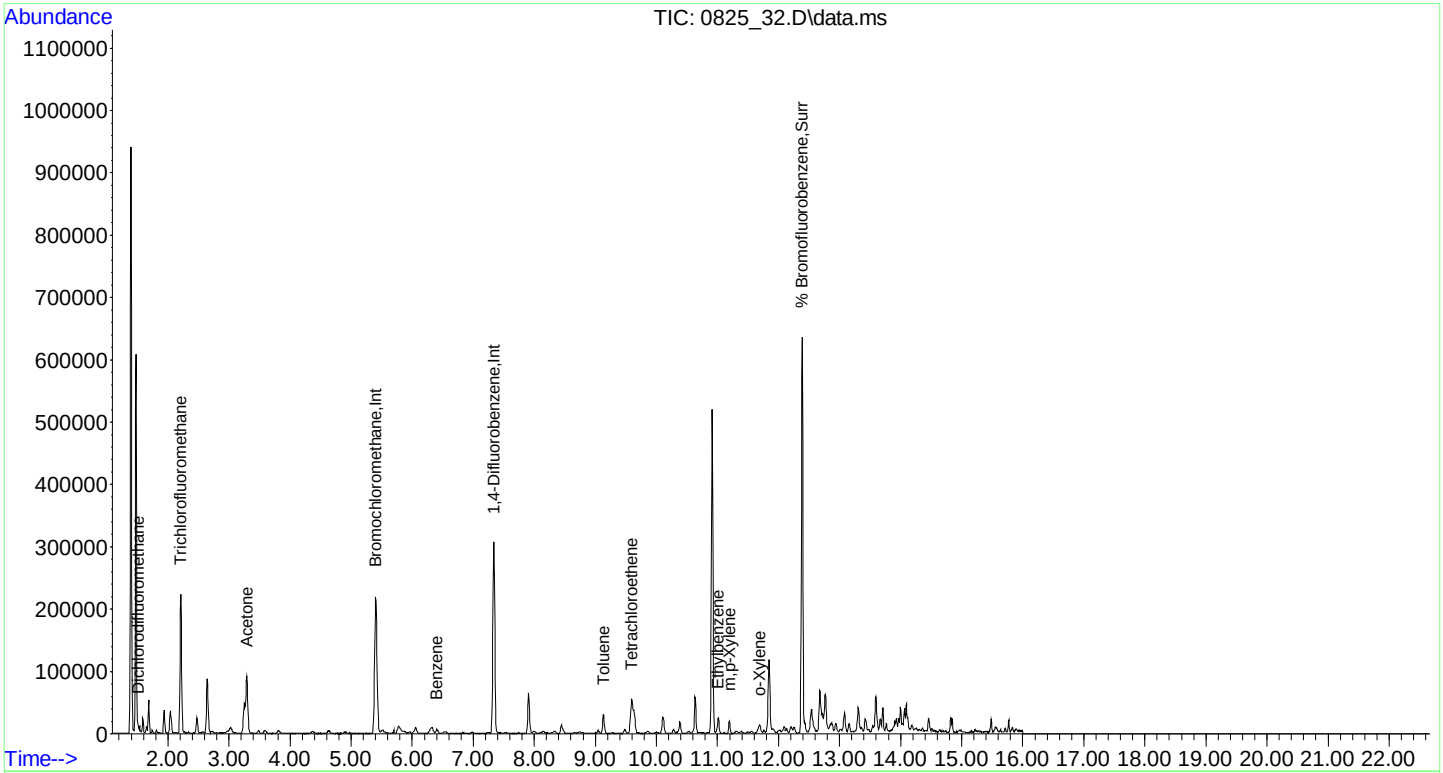
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	85342	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	263837	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	119307	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	95143	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	263837	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	119307	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.389	95	183211	9.847	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	5686	0.369	ppbv		97
4) Acetone	3.292	43	142100	5.654	ppbv		92
5) Trichlorofluoromethane	2.211	101	155950	6.035	ppbv		99
13) Benzene	6.402	78	4345	0.266	ppbv	#	82
18) Toluene	9.131	91	19008	0.767	ppbv		97
19) Tetrachloroethene	9.600	166	7792	0.507	ppbv		98
22) Ethylbenzene	11.011	91	4029	0.117	ppbv		97
23) m,p-Xylene	11.196	91	10162	0.388	ppbv		98
24) o-Xylene	11.697	91	4872	0.171	ppbv		95
32] Trichlorofluoromethane...	2.214	101	172090	5.357	ppbv		100
34] Carbon Tetrachloride(sim)	5.759	117	2158	0.072	ppbv		99
40] 1,2-Dichloroethane(sim)	6.685	62	513	0.028	ppbv		97
46] Tetrachloroethene(sim)	9.603	166	8407	0.606	ppbv		97
48] m,p-Xylene(sim)	11.199	91	11128	0.433	ppbv		100

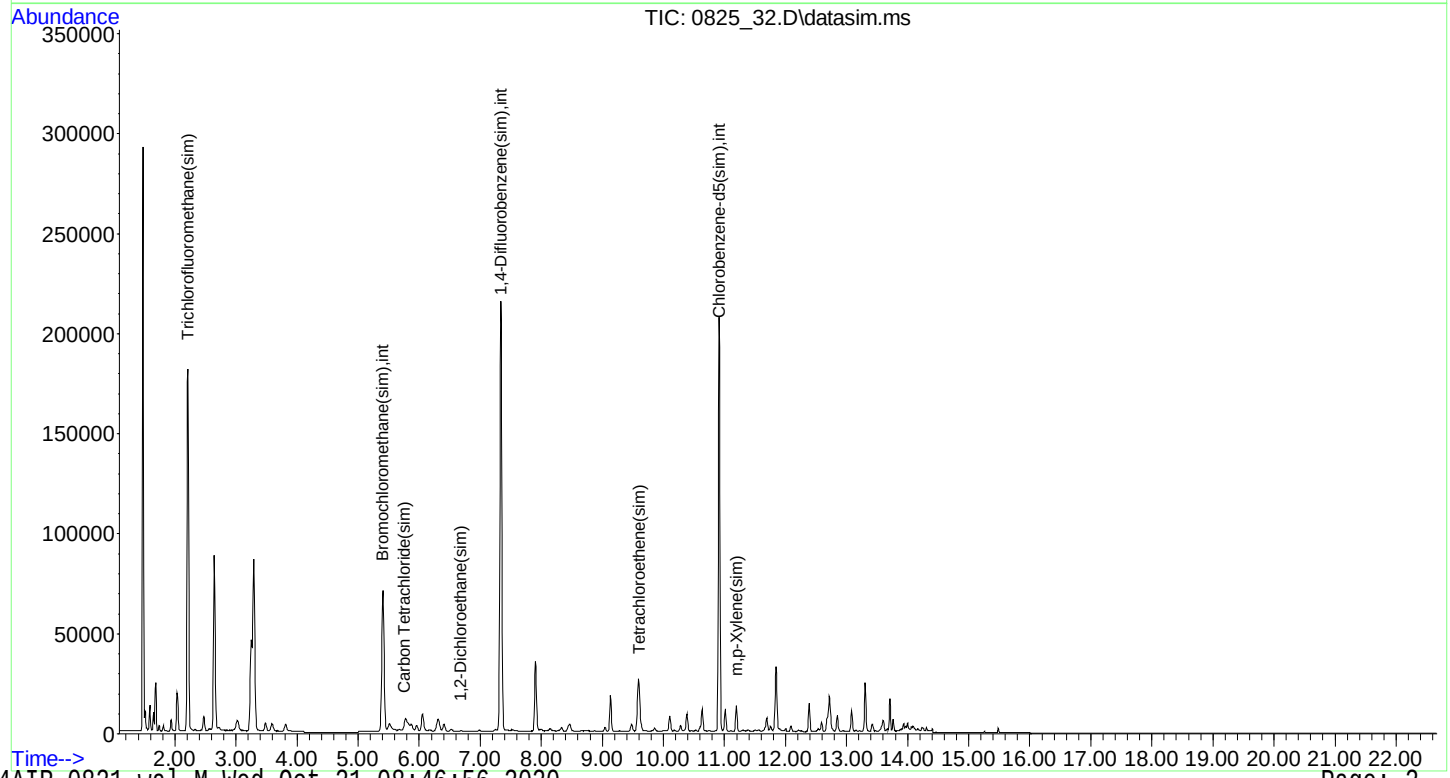
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

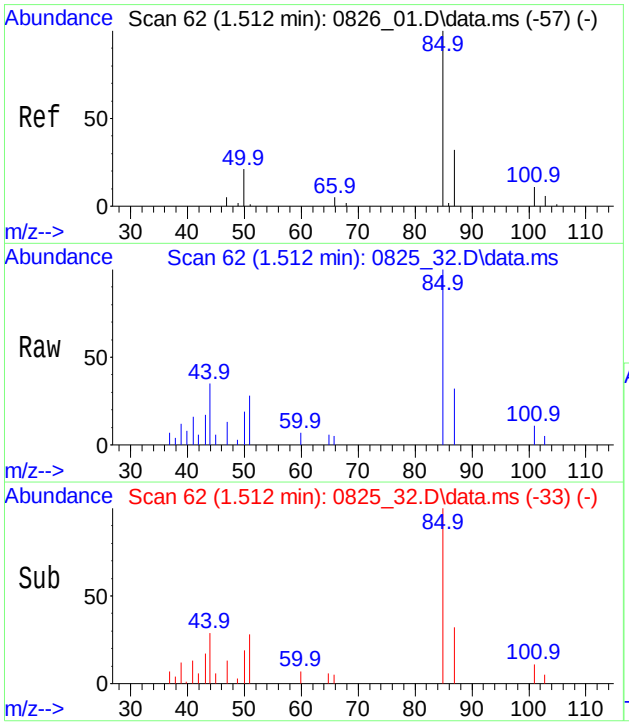
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0825_32.D
Acq On : 26 Aug 2020 3:11 am
Operator : Keith
Sample : 61560 340cc dupe
Misc :
ALS Vial : 201 Sample Multiplier: 1

Quant Time: Oct 13 15:44:07 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



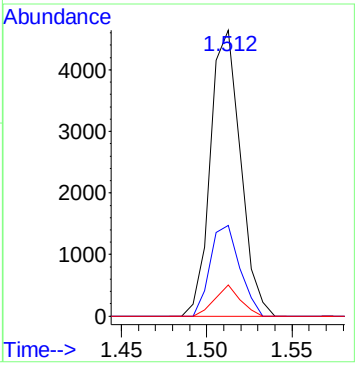


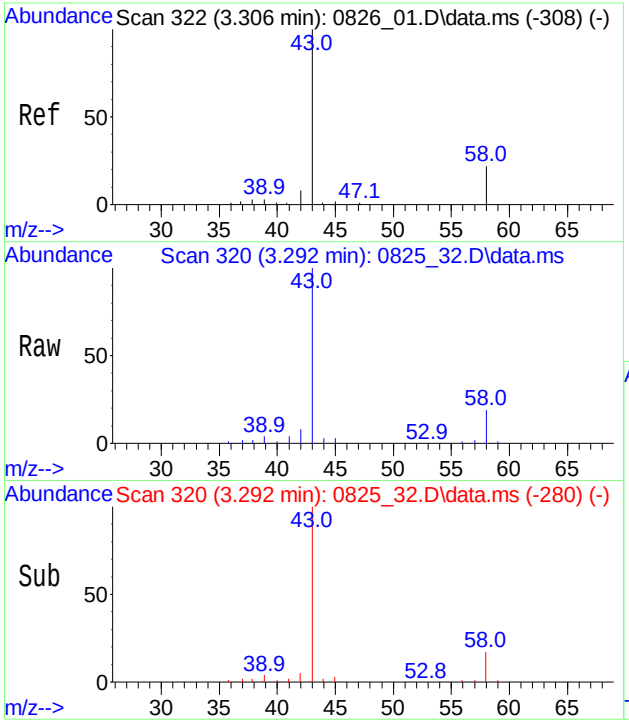


#2
Dichlorodifluoromethane
Conc: 8$ 0.369 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 85 Resp: 5686

Ion	Ratio	Lower	Upper
85	100		
87	31.2	26.1	39.1
101	9.2	8.4	12.6

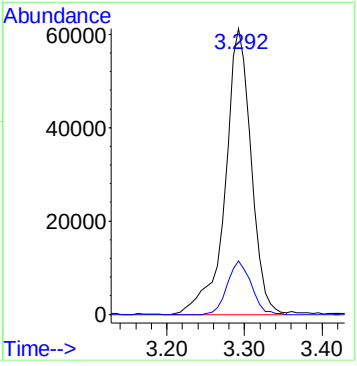


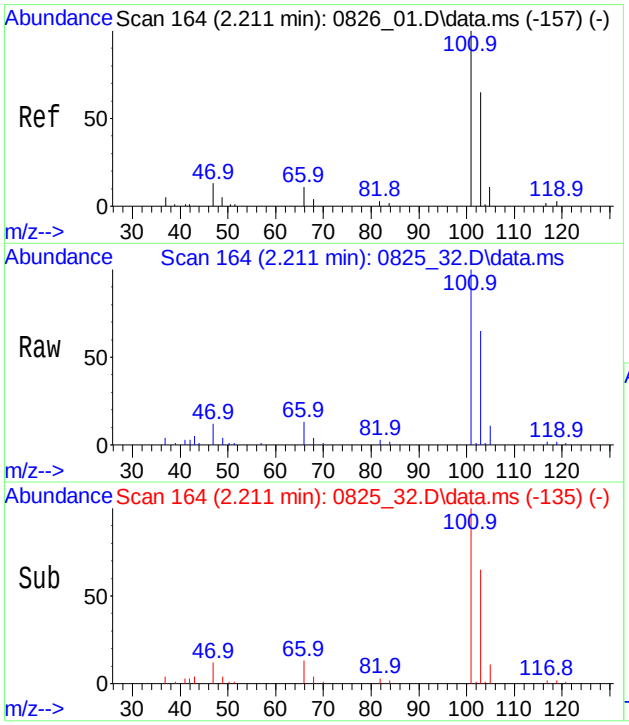


#4
Acetone
Conc: 8$ 5.654 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 43 Resp: 142100

Ion	Ratio	Lower	Upper
43	100		
58	17.2	16.7	25.1

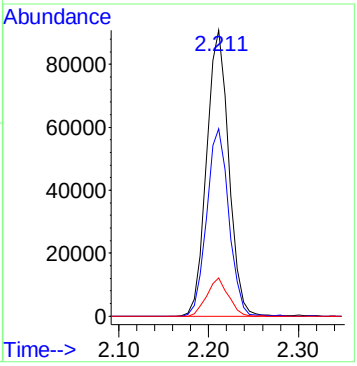


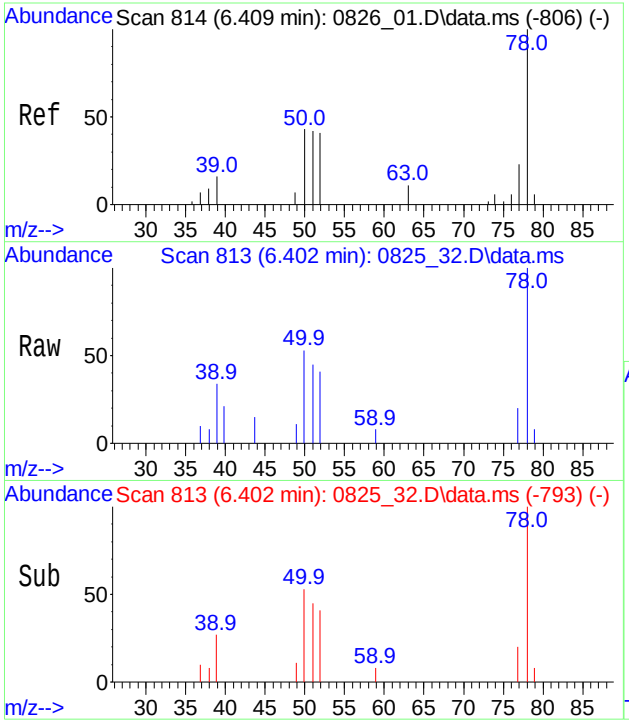


#5
Trichlorofluoromethane
Conc: 8$ 6.035 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion:101 Resp: 155950

Ion	Ratio	Lower	Upper
101	100		
103	65.5	52.1	78.1
66	12.9	9.8	14.6

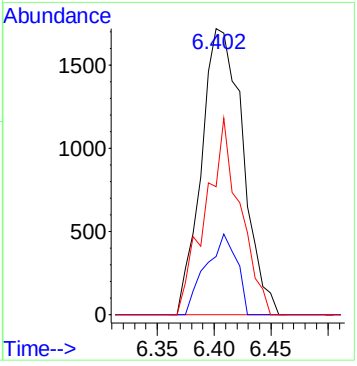


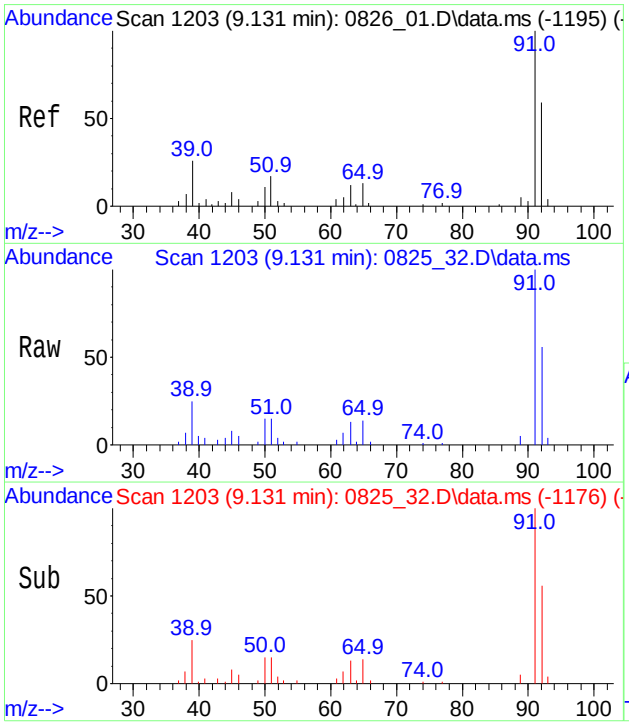


#13
Benzene
Conc: 8$ 0.266 ppbv
RT: 6.402 min Scan# 813
Delta R.T. -0.012 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 78 Resp: 4345

Ion	Ratio	Lower	Upper
78	100		
77	21.0	19.0	28.6
51	57.4	33.0	49.6#

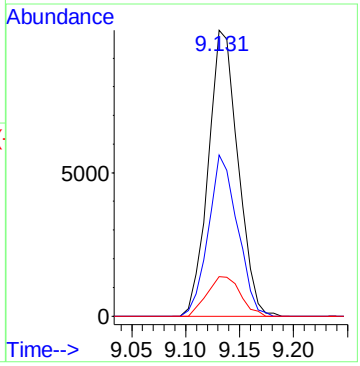


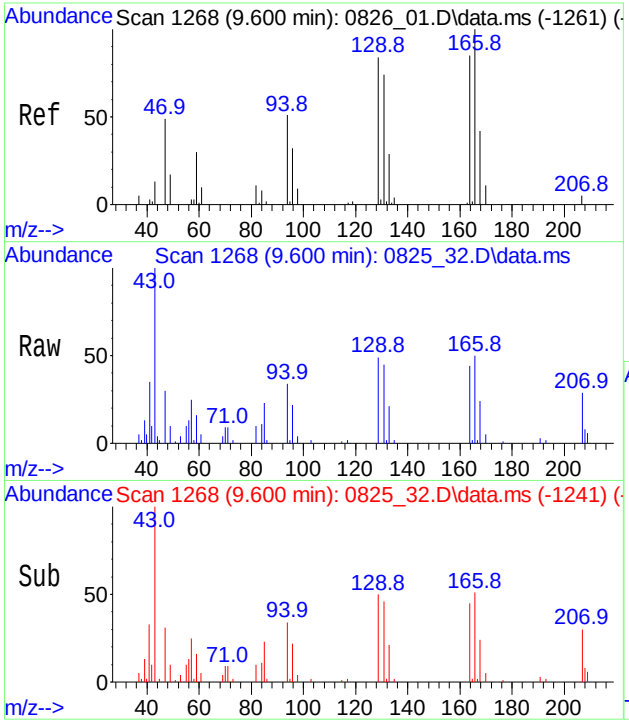


#18
Toluene
Conc: 8$ 0.767 ppbv
RT: 9.131 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 91 Resp: 19008

Ion	Ratio	Lower	Upper
91	100		
92	55.6	46.2	69.2
65	15.4	11.0	16.6

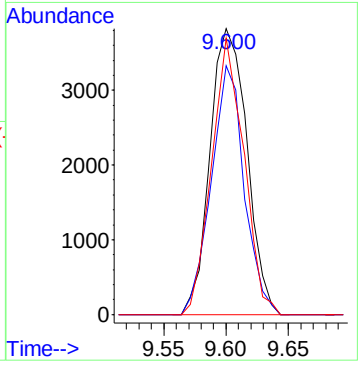


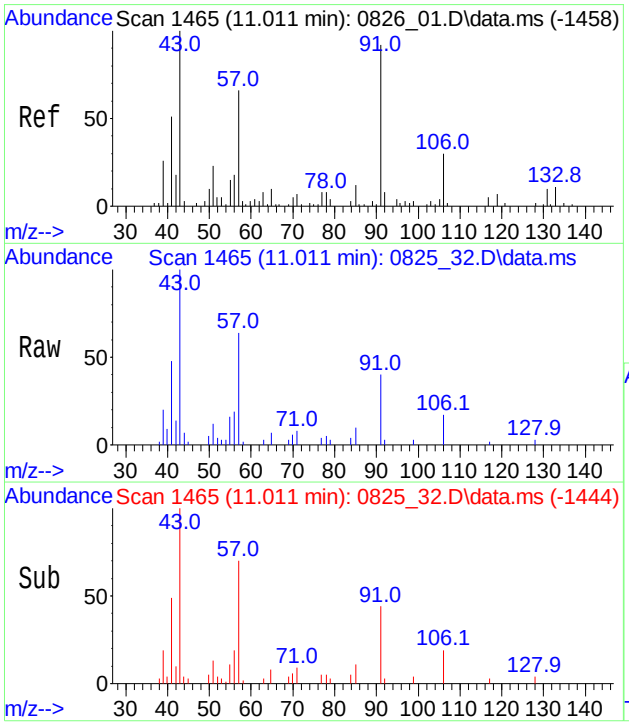


#19
Tetrachloroethene
Conc: 8$ 0.507 ppbv
RT: 9.600 min Scan# 1268
Delta R.T. -0.005 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion:166 Resp: 7792

Ion	Ratio	Lower	Upper
166	100		
164	77.8	62.4	93.6
129	84.4	69.8	104.8

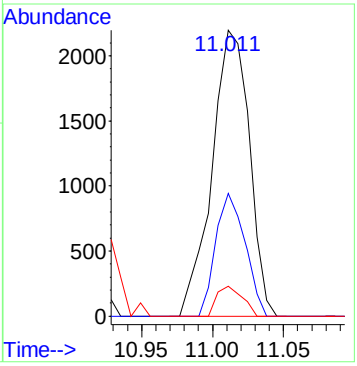


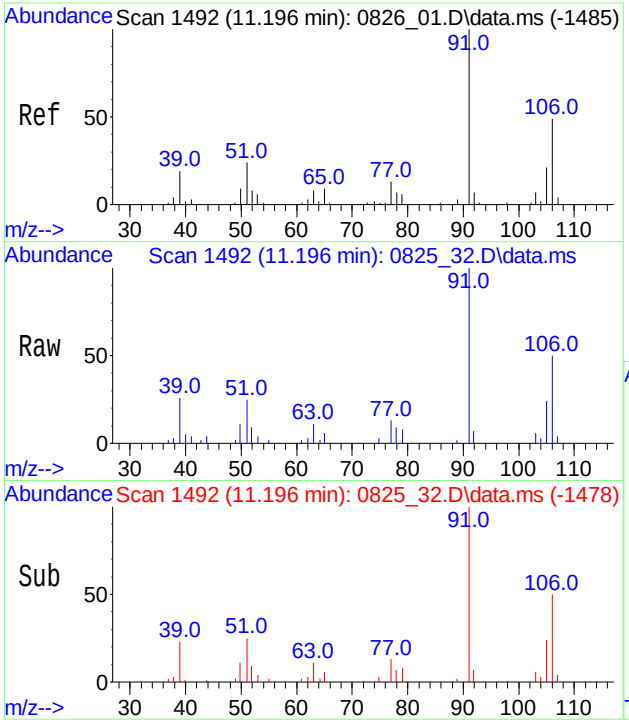


#22
Ethylbenzene
Conc: 8$ 0.117 ppbv
RT: 11.011 min Scan# 1465
Delta R.T. -0.005 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 91 Resp: 4029

Ion	Ratio	Lower	Upper
91	100		
106	33.7	12.2	52.2
77	7.1	0.0	28.6

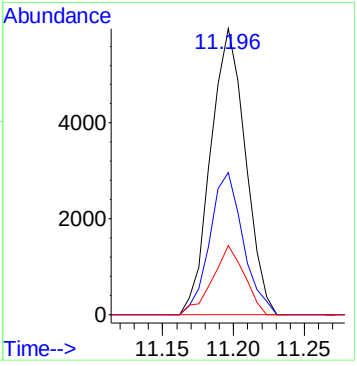


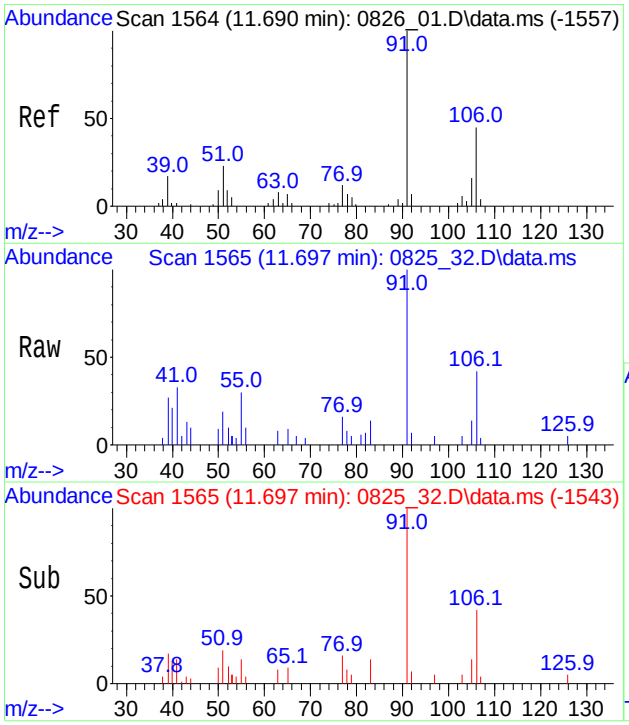


#23
m,p-Xylene
Conc: 8$ 0.388 ppbv
RT: 11.196 min Scan# 1492
Delta R.T. -0.005 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 91 Resp: 10162

Ion	Ratio	Lower	Upper
91	100		
106	47.4	39.3	58.9
105	22.1	17.8	26.6

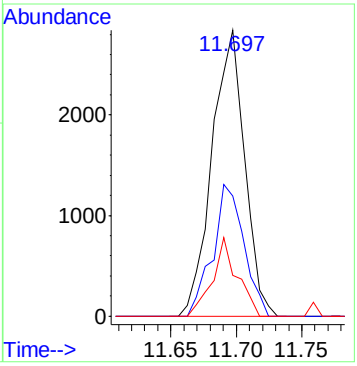


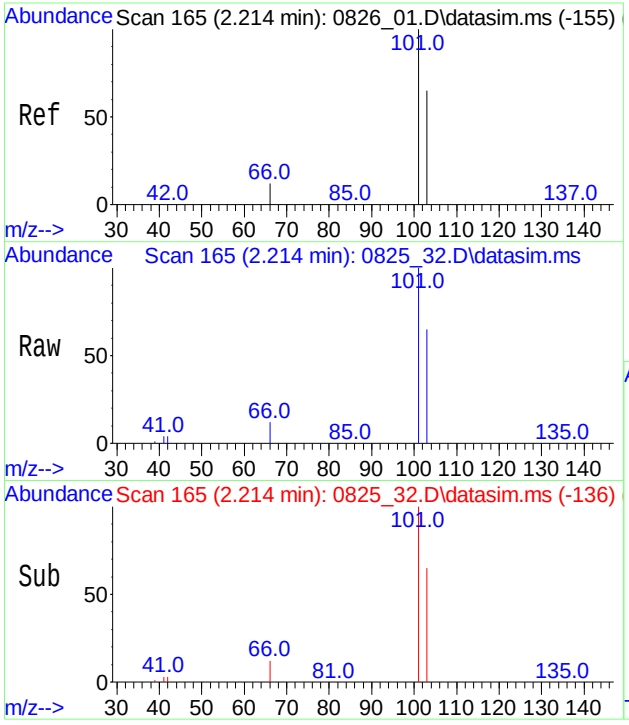


#24
o-Xylene
Conc: 8$ 0.171 ppbv
RT: 11.697 min Scan# 1565
Delta R.T. 0.002 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 91 Resp: 4872

Ion	Ratio	Lower	Upper
91	100		
106	43.9	38.0	57.0
105	20.6	15.0	22.6

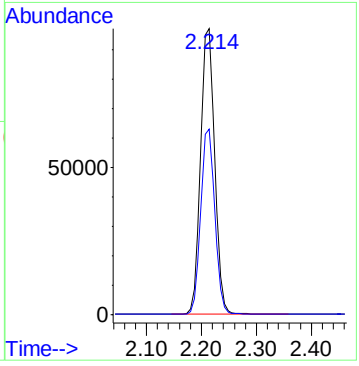


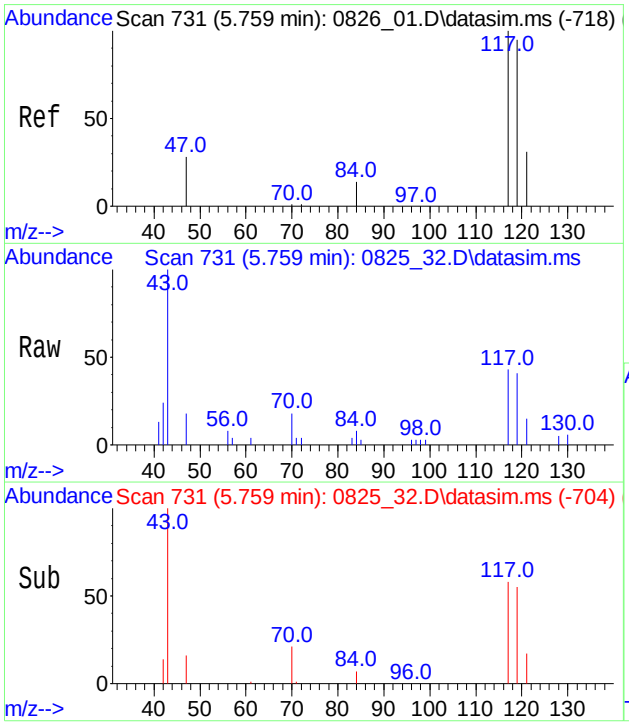


#32
Trichlorofluoromethane(sim)
Conc: 8$ 5.357 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.000 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion:101 Resp: 172090

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.1	78.1

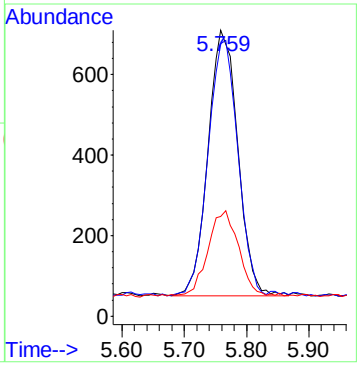


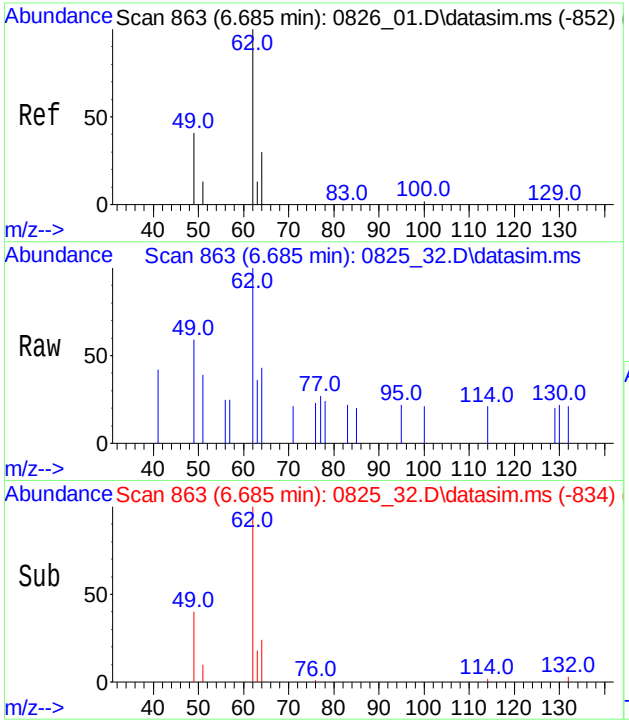


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.072 ppbv
RT: 5.759 min Scan# 731
Delta R.T. -0.005 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion:117 Resp: 2158

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.7	115.1
121	33.4	25.4	38.0

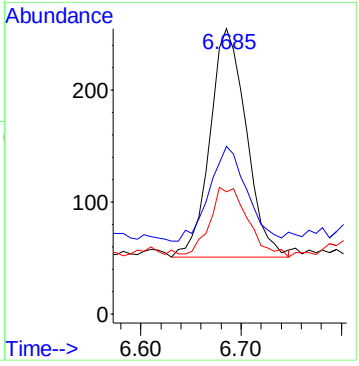


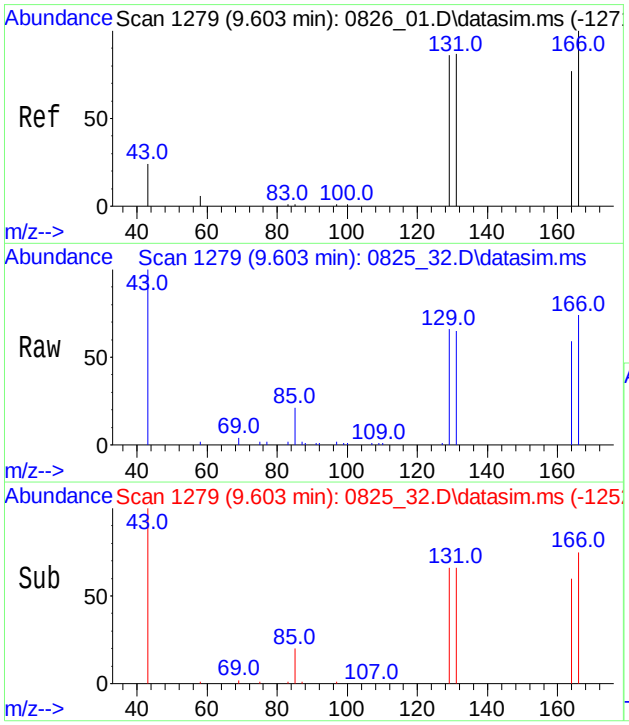


#40
1,2-Dichloroethane(sim)
Conc: 8$ 0.028 ppbv
RT: 6.685 min Scan# 863
Delta R.T. -0.003 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 62 Resp: 513

Ion	Ratio	Lower	Upper
62	100		
49	42.5	0.8	78.8
64	31.8	24.7	37.1

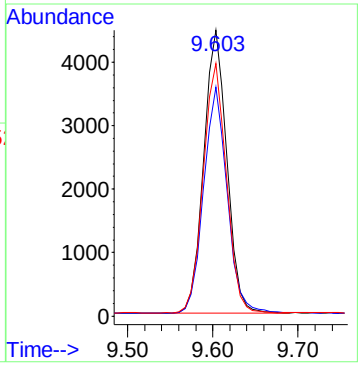


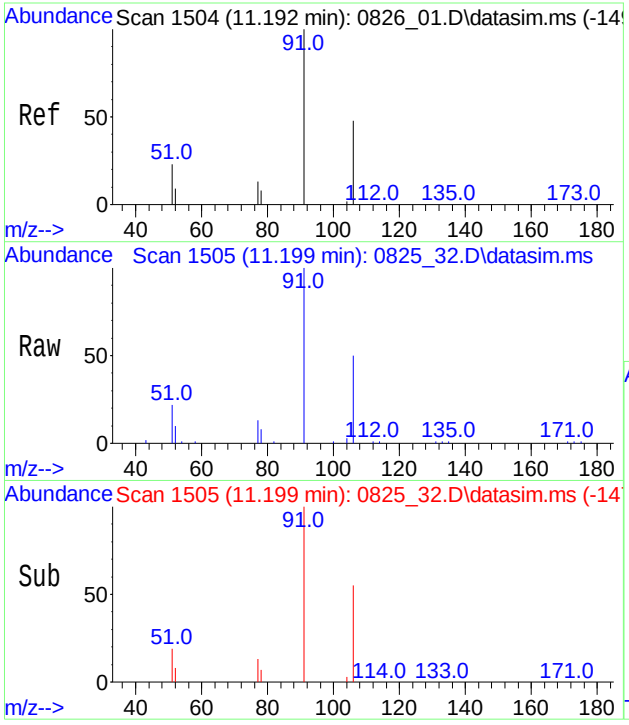


#46
Tetrachloroethene(sim)
Conc: 8$ 0.606 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion:166 Resp: 8407

Ion	Ratio	Lower	Upper
166	100		
164	81.4	58.0	98.0
129	88.5	67.3	107.3

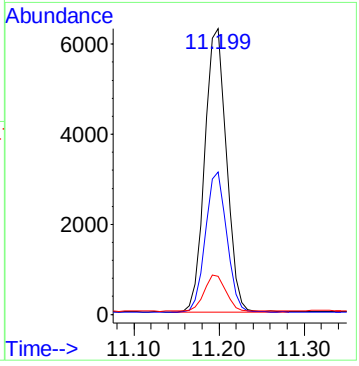




#48
m,p-Xylene(sim)
Conc: 8$ 0.433 ppbv
RT: 11.199 min Scan# 1505
Delta R.T. -0.002 min
Lab File: 0825_32.D
Acq: 26 Aug 2020 3:11 am

Tgt Ion: 91 Resp: 11128

Ion	Ratio	Lower	Upper
91	100		
106	48.8	44.2	54.0
77	12.7	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 LCS

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61561 LCS

Canister: LCS Lab File ID: 0826_03.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	9.45		0.200	0.200	r
75-01-4	Vinyl Chloride	10.9		0.020	0.020	r
67-64-1	Acetone	9.27		1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.2		0.150	0.150	r
75-35-4	1,1-Dichloroethene	11.0		0.050	0.050	r
75-09-2	Methylene Chloride	9.49		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	10.6		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.5		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	10.4		0.200	0.200	r
71-43-2	Benzene	10.1		0.050	0.050	r
56-23-5	Carbon Tetrachloride	10.9		0.020	0.020	r
79-01-6	Trichloroethene	10.1		0.037	0.037	r
108-88-3	Toluene	9.94		0.200	0.200	r
127-18-4	Tetrachloroethene	10.3		0.100	0.100	r
108-90-7	Chlorobenzene	10.1		0.200	0.200	r
100-41-4	Ethylbenzene	10.3		0.150	0.150	r
179601-23-1	m,p-Xylene	21.2		0.150	0.150	r
95-47-6	o-Xylene	10.2		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.7		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.7		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	10.7		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.30		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_03.D
Acq On : 26 Aug 2020 6:32 am
Operator : Keith
Client ID : CG61561 LCS
Lab ID : CG61561 LCS
ALS Vial : 207 Sample Multiplier: 1

Quant Time: Oct 13 15:44:20 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

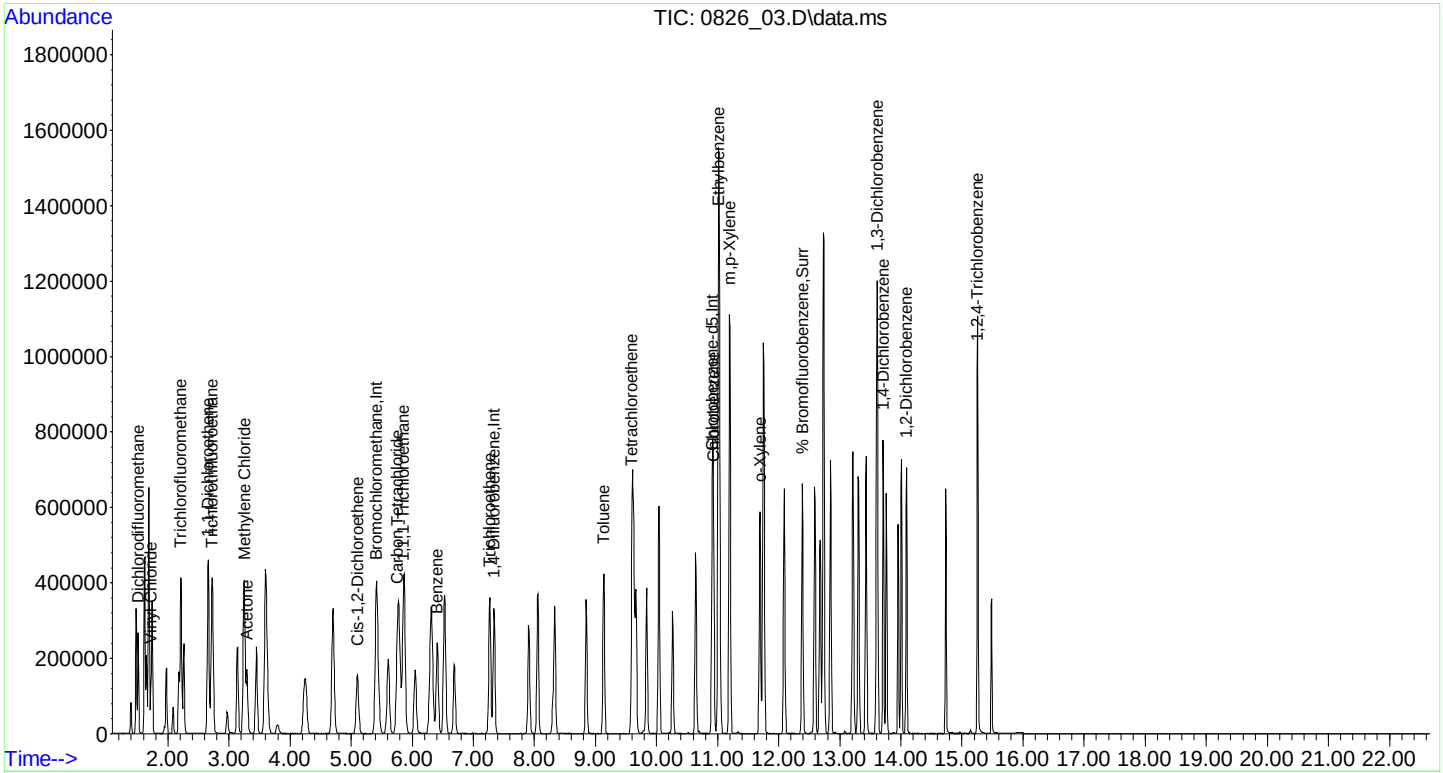
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	92271	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	279111	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	127530	10.000	ng		0.00
30) Bromochloromethane(sim)	5.411	130	100683	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	279111	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	127530	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	202070	10.160	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.513	85	157522	9.451	ppbv		100
3) Vinyl Chloride	1.725	62	99371	10.939	ppbv		100
4) Acetone	3.293	43	251847	9.269	ppbv		96
5) Trichlorofluoromethane	2.211	101	311436	11.146	ppbv		100
6) 1,1-Dichloroethene	2.656	61	198463	11.024	ppbv		98
7) Methylene Chloride	3.252	49	197783	9.489	ppbv		96
8) Trichlorotrifluoroethane	2.725	101	194006	10.555	ppbv		100
10) Cis-1,2-Dichloroethene	5.105	61	160599	10.492	ppbv		98
12) 1,1,1-Trichloroethane	5.855	97	233302	10.377	ppbv		100
13) Benzene	6.407	78	178478	10.122	ppbv		95
14) Carbon Tetrachloride	5.761	117	293438	10.884	ppbv		99
17) Trichloroethene	7.270	130	139758	10.101	ppbv		100
18) Toluene	9.136	91	260509	9.942	ppbv		99
19) Tetrachloroethene	9.598	166	167696	10.312	ppbv		98
21) Chlorobenzene	10.934	112	255798	10.118	ppbv		99
22) Ethylbenzene	11.016	91	379331	10.332	ppbv		99
23) m,p-Xylene	11.194	91	594818	21.241	ppbv		99
24) o-Xylene	11.695	91	311163	10.232	ppbv		98
26) 1,3-Dichlorobenzene	13.614	146	256767	10.736	ppbv		99
27) 1,4-Dichlorobenzene	13.711	146	248356	10.701	ppbv		99
28) 1,2-Dichlorobenzene	14.094	146	206478	10.673	ppbv		99
29) 1,2,4-Trichlorobenzene	15.251	180	88173	9.303	ppbv		99
31) Vinyl Chloride(sim)	1.725	62	99371	9.377	ppbv		100
34) Carbon Tetrachloride(sim)	5.764	117	316694	10.016	ppbv		100
35) 1,1-Dichloroethene(sim)	2.656	61	198463	9.980	ppbv		98
39) Cis-1,2-Dichloroethene...	5.105	61	160599	9.786	ppbv		98
44) Trichloroethene(sim)	7.273	130	155931	11.337	ppbv		100
46) Tetrachloroethene(sim)	9.601	166	191574	13.049	ppbv		99
48) m,p-Xylene(sim)	11.197	91	657706	23.960	ppbv		99
50) 1,4-Dichlorobenzene(sim)	13.714	146	287140	13.275	ppbv		100

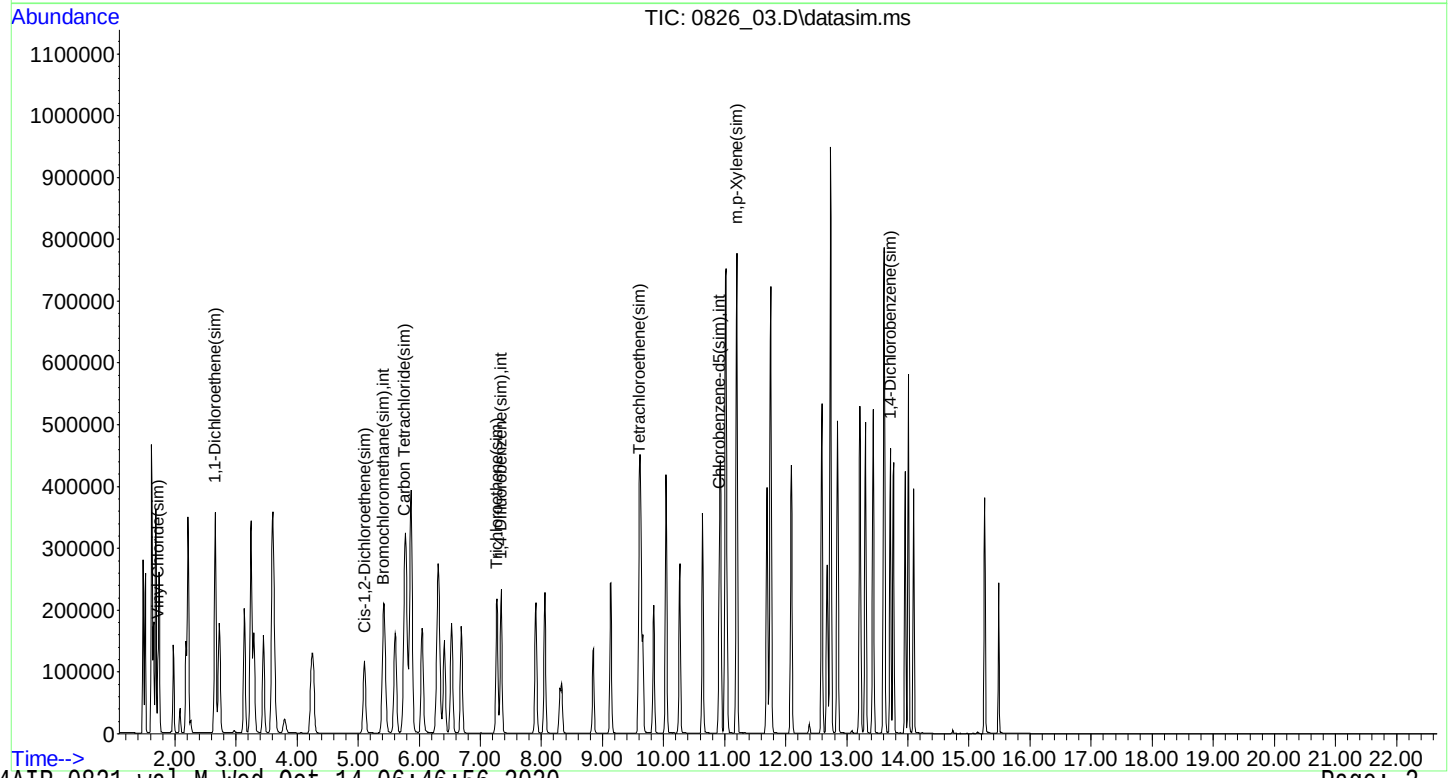
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_03.D
Acq On : 26 Aug 2020 6:32 am
Operator : Keith
Client ID : CG61561 LCS
Lab ID : CG61561 LCS
ALS Vial : 207 Sample Multiplier: 1

Quant Time: Oct 13 15:44:20 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 LCSD

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61561 LCS

Canister: LCS Lab File ID: 0826_04.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	7.88		0.200	0.200	r
75-01-4	Vinyl Chloride	11.0		0.020	0.020	r
67-64-1	Acetone	9.11		1.00	1.00	r
75-69-4	Trichlorofluoromethane	10.9		0.150	0.150	r
75-35-4	1,1-Dichloroethene	10.7		0.050	0.050	r
75-09-2	Methylene Chloride	9.35		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	10.5		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.2		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	10.0		0.200	0.200	r
71-43-2	Benzene	10.0		0.050	0.050	r
56-23-5	Carbon Tetrachloride	10.4		0.020	0.020	r
79-01-6	Trichloroethene	9.97		0.037	0.037	r
108-88-3	Toluene	9.99		0.200	0.200	r
127-18-4	Tetrachloroethene	10.3		0.100	0.100	r
108-90-7	Chlorobenzene	10.2		0.200	0.200	r
100-41-4	Ethylbenzene	10.1		0.150	0.150	r
179601-23-1	m,p-Xylene	21.0		0.150	0.150	r
95-47-6	o-Xylene	10.2		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.5		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.3		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	10.6		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.20		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_04.D
Acq On : 26 Aug 2020 9:35 am
Operator : Keith
Client ID : CG61561 LCSD
Lab ID : CG61561 LCSD
ALS Vial : 208 Sample Multiplier: 1

Quant Time: Oct 13 15:44:24 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

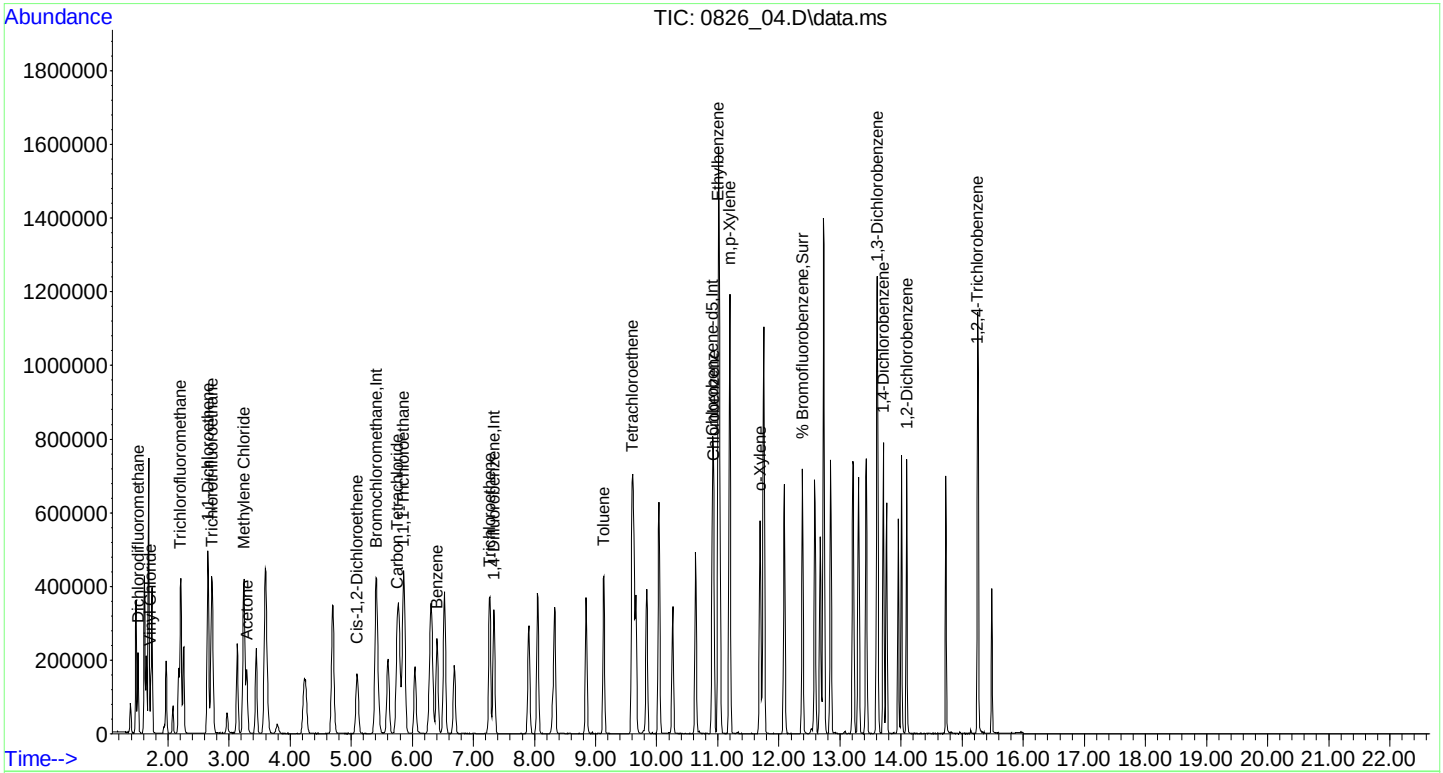
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.407	130	98216	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	294304	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	134634	10.000	ng		0.00
30) Bromochloromethane(sim)	5.410	130	106431	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	294304	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	134634	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	213469	10.167	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	139765	7.878	ppbv		100
3) Vinyl Chloride	1.718	62	106768	11.042	ppbv		100
4) Acetone	3.292	43	263424	9.108	ppbv		97
5) Trichlorofluoromethane	2.211	101	323633	10.882	ppbv		100
6) 1,1-Dichloroethene	2.656	61	204550	10.674	ppbv		99
7) Methylene Chloride	3.244	49	207428	9.349	ppbv		96
8) Trichlorotrifluoroethane	2.718	101	204783	10.467	ppbv		98
10) Cis-1,2-Dichloroethene	5.098	61	166839	10.240	ppbv		100
12) 1,1,1-Trichloroethane	5.854	97	239573	10.011	ppbv		99
13) Benzene	6.407	78	187629	9.997	ppbv		96
14) Carbon Tetrachloride	5.753	117	297544	10.368	ppbv		99
17) Trichloroethene	7.269	130	145426	9.968	ppbv		99
18) Toluene	9.136	91	275991	9.989	ppbv		99
19) Tetrachloroethene	9.598	166	177367	10.343	ppbv		99
21) Chlorobenzene	10.933	112	272655	10.215	ppbv		100
22) Ethylbenzene	11.009	91	391234	10.094	ppbv		100
23) m,p-Xylene	11.194	91	620355	20.984	ppbv		99
24) o-Xylene	11.695	91	325924	10.152	ppbv		98
26) 1,3-Dichlorobenzene	13.613	146	264622	10.481	ppbv		99
27) 1,4-Dichlorobenzene	13.711	146	252198	10.293	ppbv		98
28) 1,2-Dichlorobenzene	14.094	146	216387	10.595	ppbv		98
29) 1,2,4-Trichlorobenzene	15.251	180	92072	9.201	ppbv		98
31) Vinyl Chloride(sim)	1.718	62	106682	9.523	ppbv		100
34) Carbon Tetrachloride(sim)	5.756	117	323845	9.689	ppbv		100
35) 1,1-Dichloroethene(sim)	2.656	61	204550	9.731	ppbv		99
39) Cis-1,2-Dichloroethene...	5.098	61	166839	9.617	ppbv		100
44) Trichloroethene(sim)	7.265	130	163481	11.273	ppbv		99
46) Tetrachloroethene(sim)	9.601	166	199446	12.884	ppbv		99
48) m,p-Xylene(sim)	11.197	91	683307	23.580	ppbv		100
50) 1,4-Dichlorobenzene(sim)	13.714	146	295026	12.920	ppbv		99

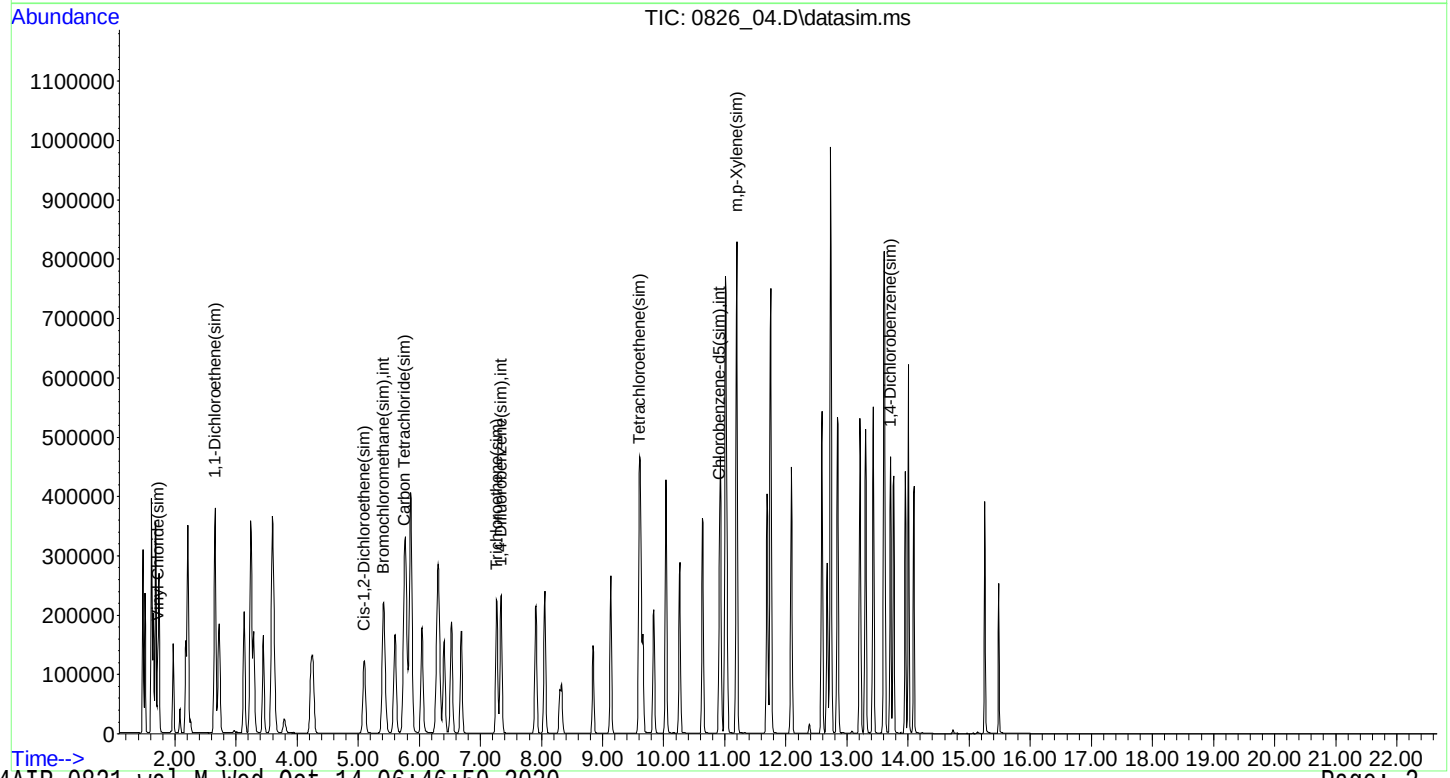
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_04.D
Acq On : 26 Aug 2020 9:35 am
Operator : Keith
Client ID : CG61561 LCSD
Lab ID : CG61561 LCSD
ALS Vial : 208 Sample Multiplier: 1

Quant Time: Oct 13 15:44:24 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 BLANK

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61561 BL

Canister: BL Lab File ID: 0826_06.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_06.D
Acq On : 26 Aug 2020 10:38 am
Operator : Keith
Client ID : CG61561 BLANK
Lab ID : CG61561 BLANK
ALS Vial : 210 Sample Multiplier: 1

Quant Time: Oct 13 15:44:31 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

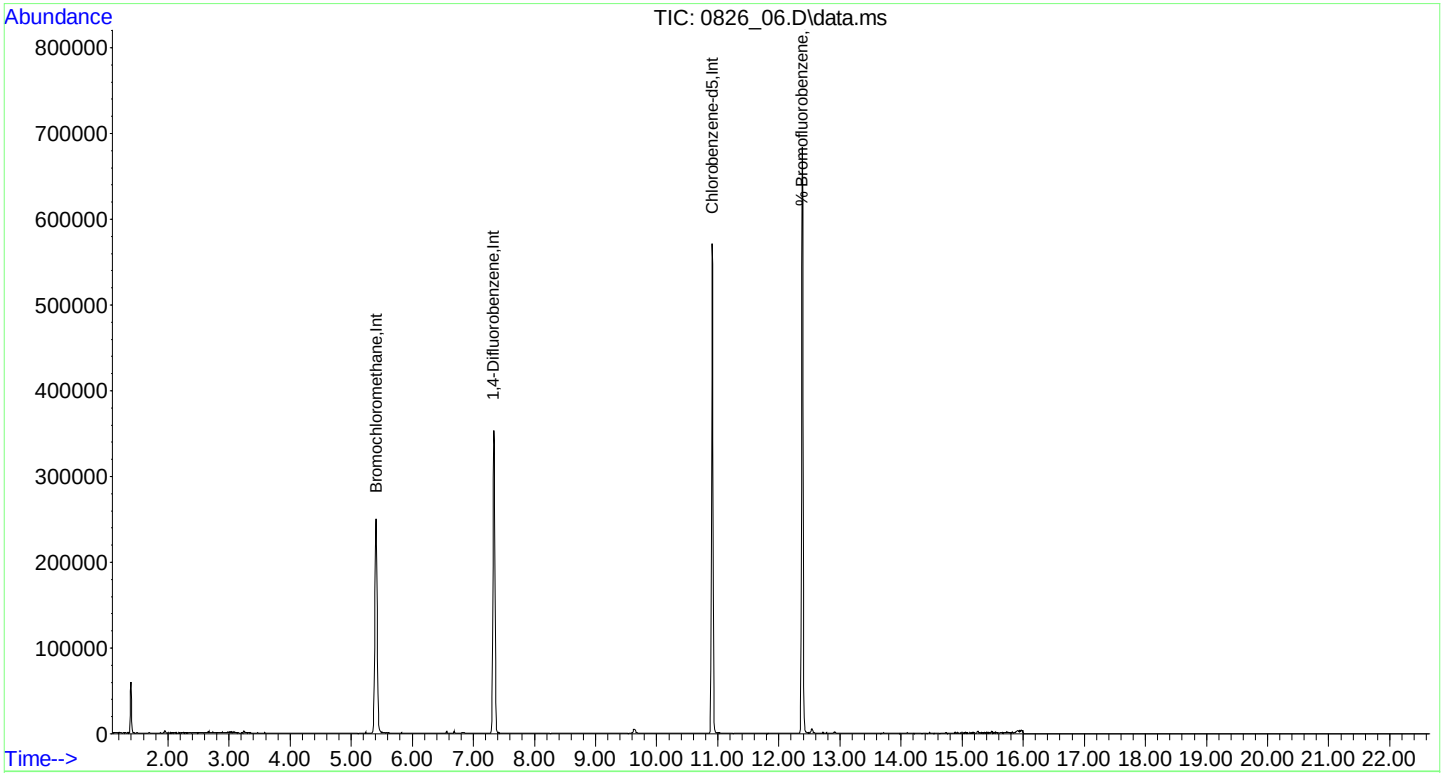
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	100132	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.333	114	309471	10.000	ng		0.00
20) Chlorobenzene-d5	10.908	82	133930	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	110170	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.333	114	309471	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.908	82	133930	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.383	95	207368	9.929	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.30%			
Target Compounds							Qvalue

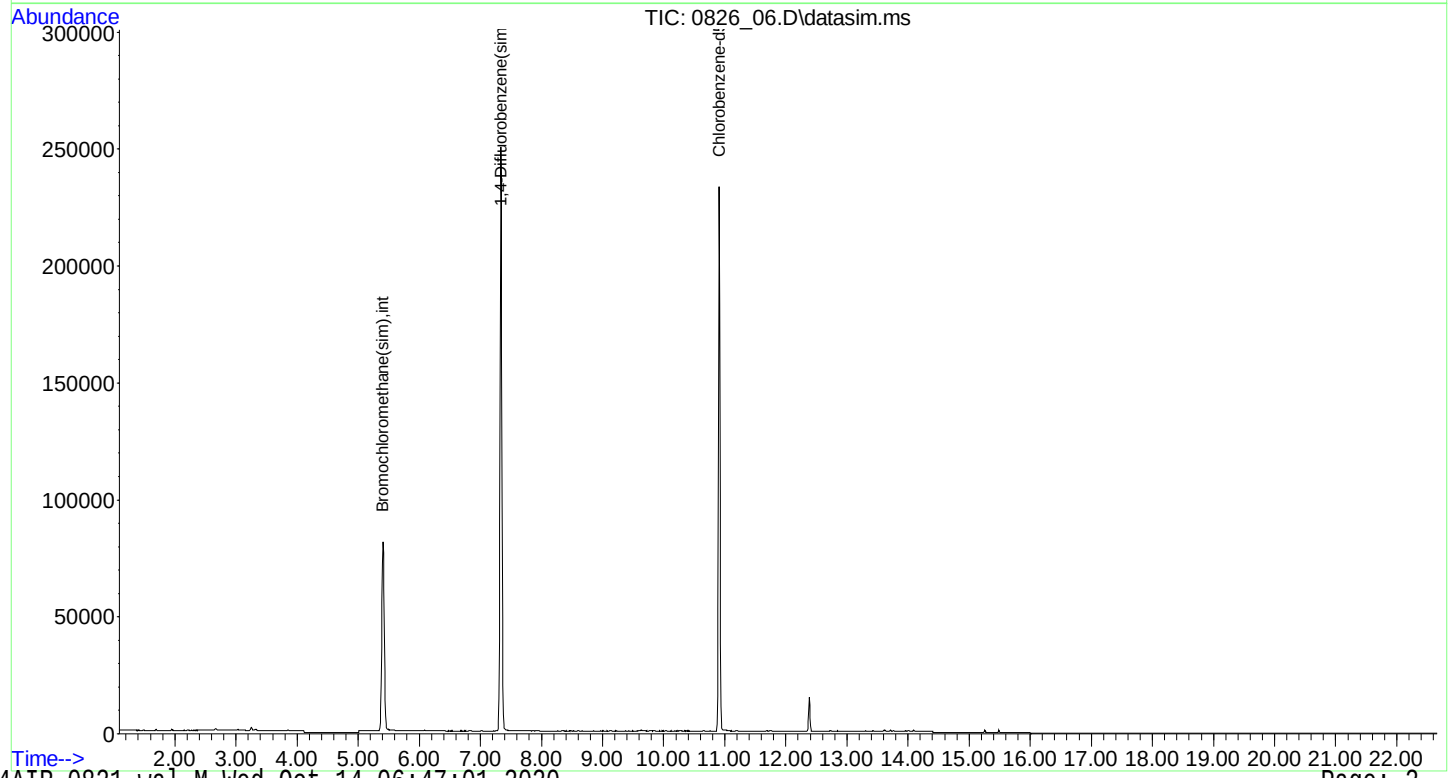
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_06.D
Acq On : 26 Aug 2020 10:38 am
Operator : Keith
Client ID : CG61561 BLANK
Lab ID : CG61561 BLANK
ALS Vial : 210 Sample Multiplier: 1

Quant Time: Oct 13 15:44:31 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-3 (COLUMN G2) DUP

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CG61561 DUP

Canister: 9536 Lab File ID: 0826_08.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.388		0.200	0.200	r
67-64-1	Acetone	6.65	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.2		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.454		0.050	0.050	r
108-88-3	Toluene	1.37		0.200	0.200	r
127-18-4	Tetrachloroethene	0.540		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.405		0.150	0.150	r
179601-23-1	m,p-Xylene	0.910		0.150	0.150	r
95-47-6	o-Xylene	0.373		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.067		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_08.D
Acq On : 26 Aug 2020 12:00 pm
Operator : Keith
Client ID : IA-3 (COLUMN G2) DUP
Lab ID : CG61561 DUP
ALS Vial : 212 Sample Multiplier: 1

Quant Time: Oct 13 15:44:37 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

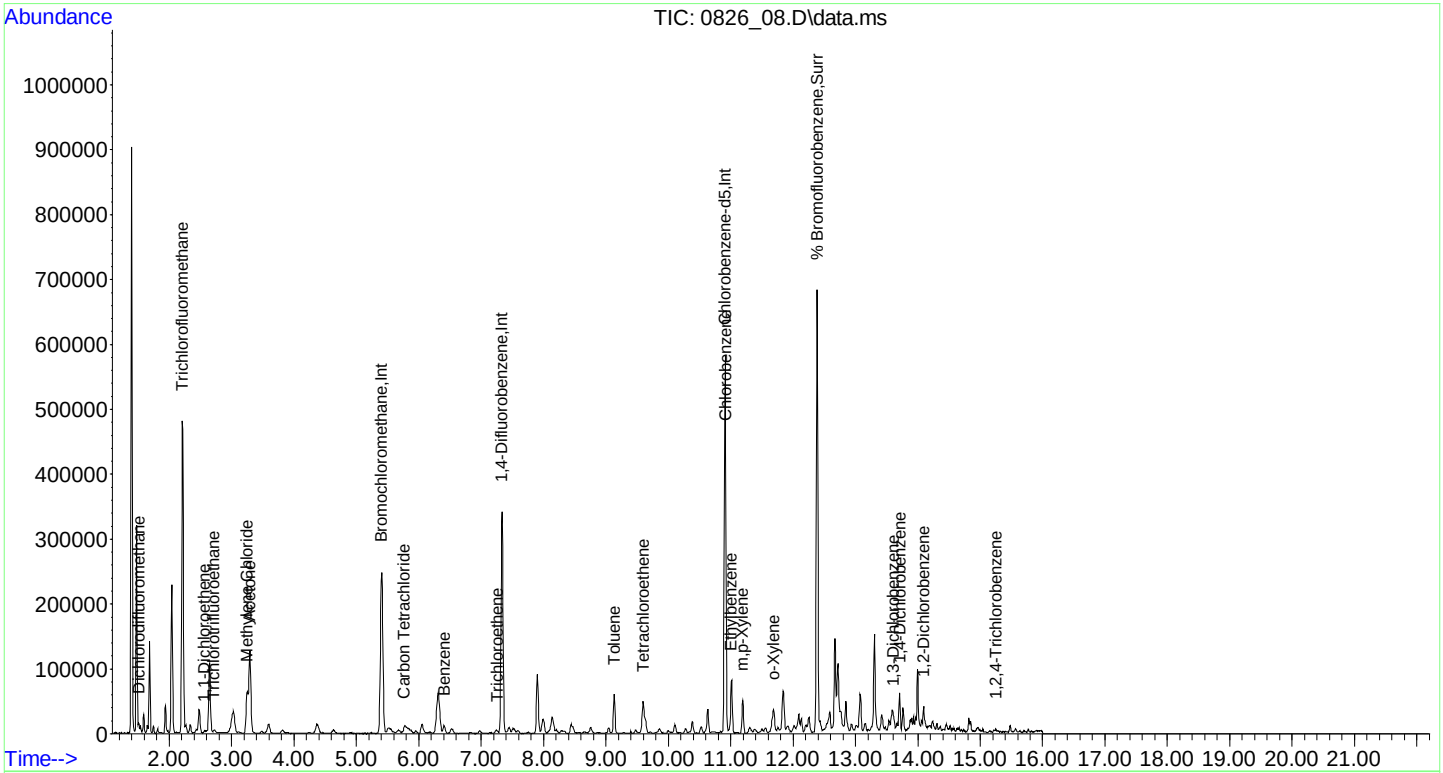
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.407	130	97459	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	295353	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	132983	10.000	ng		0.00
30) Bromochloromethane(sim)	5.410	130	106507	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	295353	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	132983	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	203321	9.804	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	6822	0.388	ppbv		99
4) Acetone	3.292	43	190809	6.648	ppbv		93
5) Trichlorofluoromethane	2.211	101	329945	11.180	ppbv		100
13) Benzene	6.407	78	8450	0.454	ppbv		92
14) Carbon Tetrachloride	5.761	117	2295	0.081	ppbv		90
18) Toluene	9.136	91	37895	1.367	ppbv		100
19) Tetrachloroethene	9.598	166	9300	0.540	ppbv		88
22) Ethylbenzene	11.009	91	15493	0.405	ppbv		96
23) m,p-Xylene	11.194	91	26583	0.910	ppbv		99
24) o-Xylene	11.688	91	11828	0.373	ppbv		96
32] Trichlorofluoromethane...	2.214	101	357519	9.942	ppbv		99
34] Carbon Tetrachloride(sim)	5.764	117	2252	0.067	ppbv		96
44] Trichloroethene(sim)	7.265	130	529	0.036	ppbv		98
46] Tetrachloroethene(sim)	9.601	166	11090	0.714	ppbv		99
48] m,p-Xylene(sim)	11.190	91	29058	1.015	ppbv		100

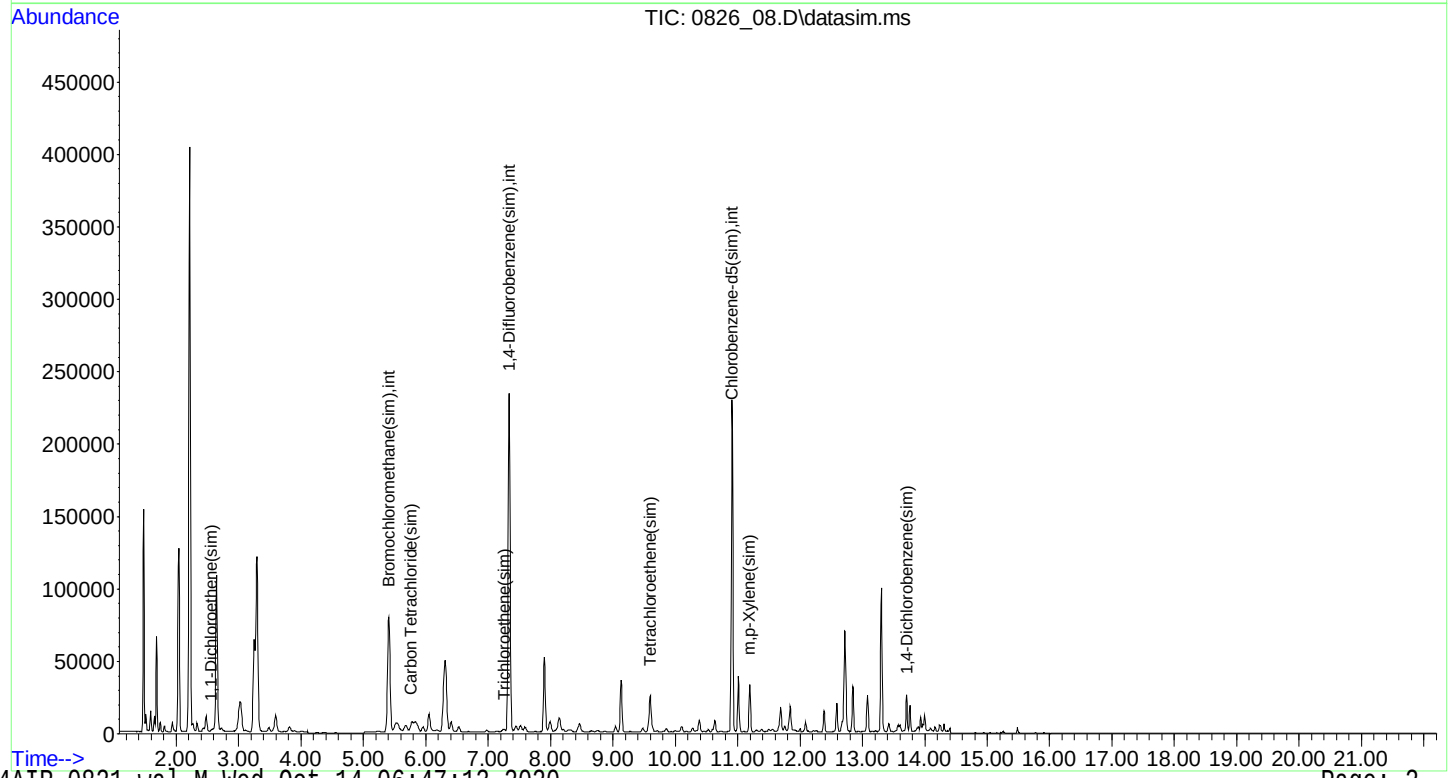
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

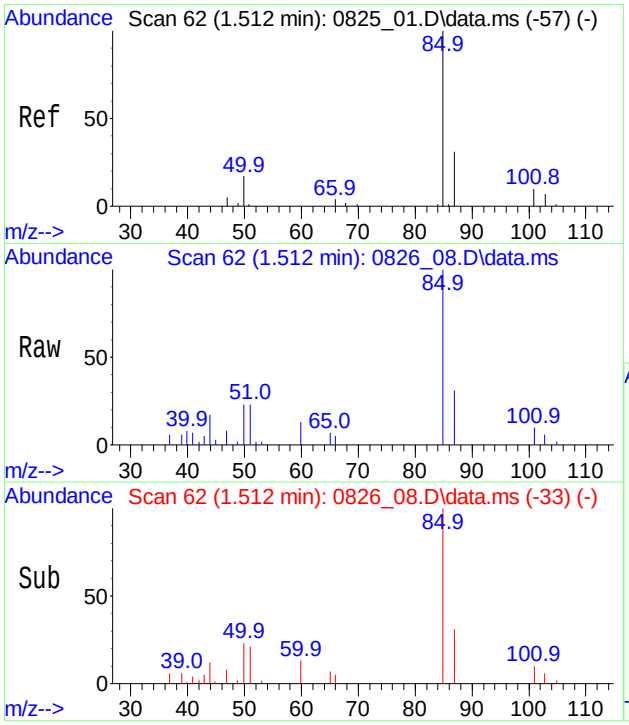
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_08.D
Acq On : 26 Aug 2020 12:00 pm
Operator : Keith
Client ID : IA-3 (COLUMN G2) DUP
Lab ID : CG61561 DUP
ALS Vial : 212 Sample Multiplier: 1

Quant Time: Oct 13 15:44:37 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



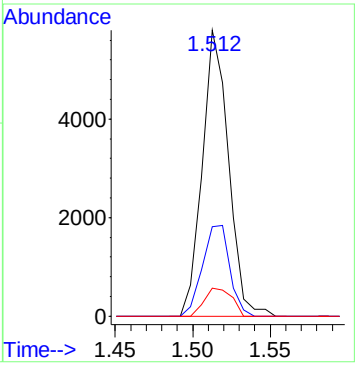


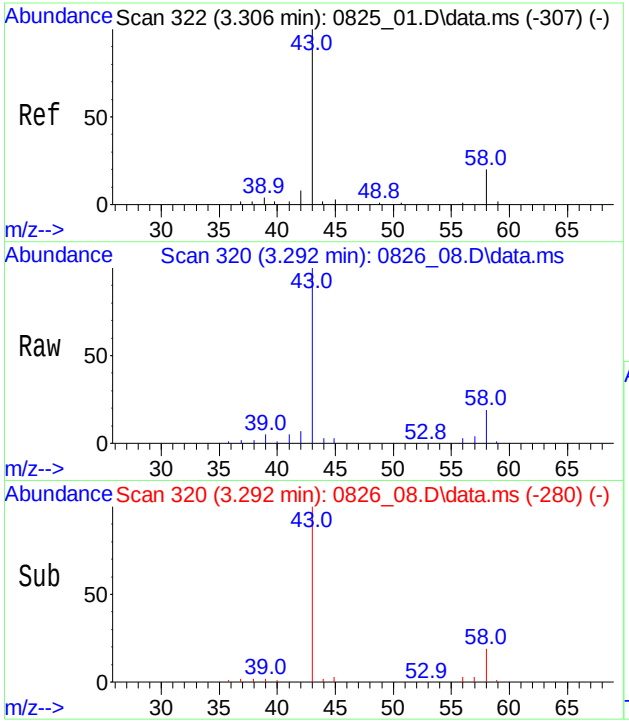


#2
Dichlorodifluoromethane
Conc: 8$ 0.388 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 85 Resp: 6822

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.1	39.1
101	10.2	8.4	12.6

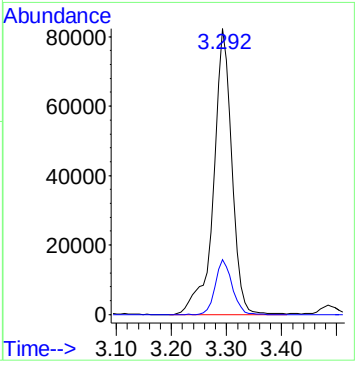


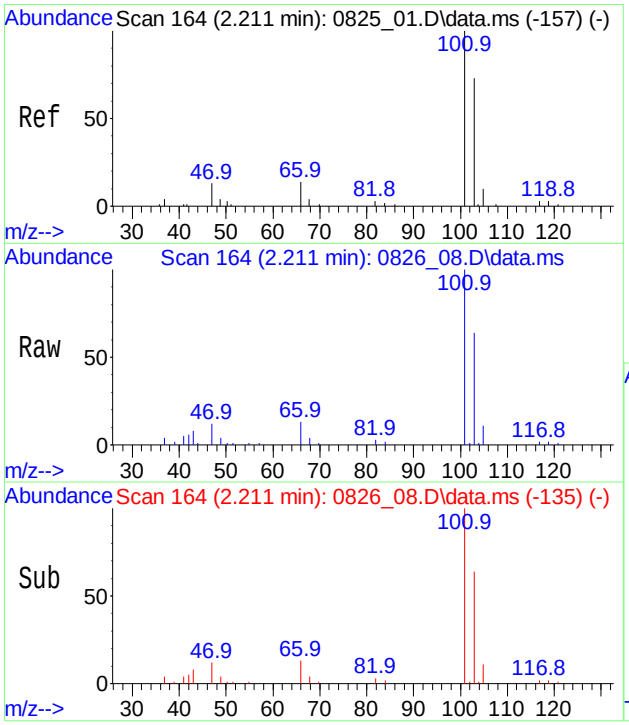


#4
Acetone
Conc: 8$ 6.648 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 43 Resp: 190809

Ion	Ratio	Lower	Upper
43	100		
58	17.7	16.7	25.1

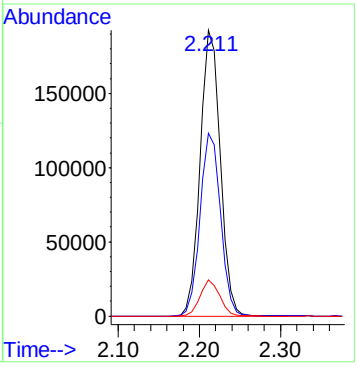


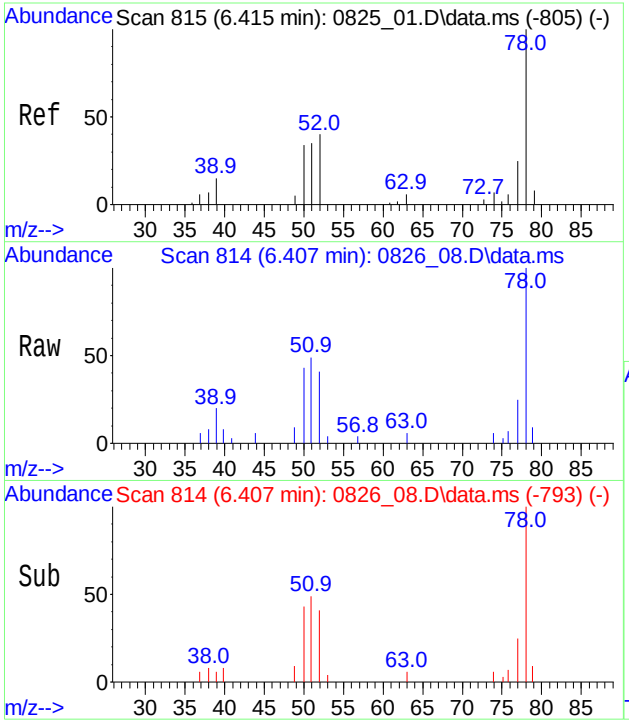


#5
Trichlorofluoromethane
Conc: 8$ 11.180 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:101 Resp: 329945

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.1	78.1
66	12.3	9.8	14.6

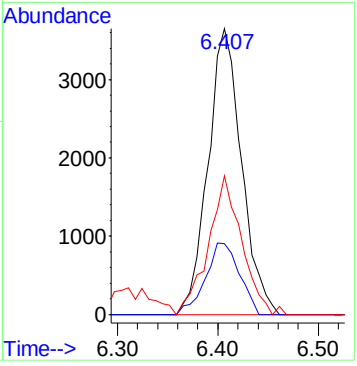


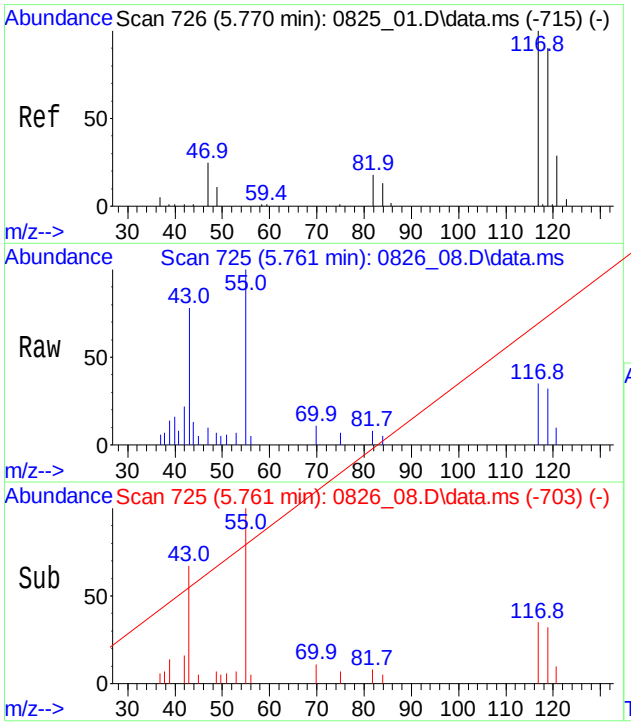


#13
Benzene
Conc: 8$ 0.454 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 78 Resp: 8450

Ion	Ratio	Lower	Upper
78	100		
77	25.3	19.0	28.6
51	48.2	33.0	49.6

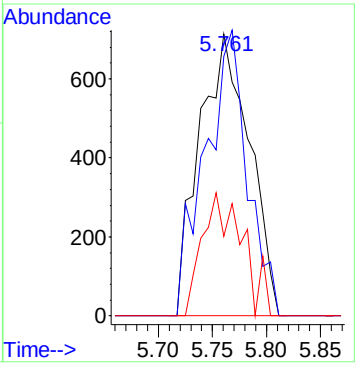


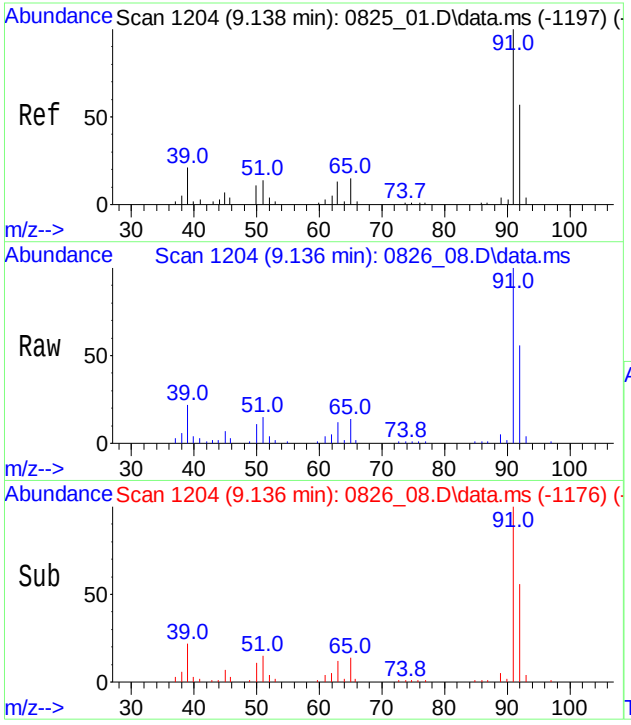


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.761 min Scan# 725
Delta R.T. 0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:117 Resp: 2295

Ion	Ratio	Lower	Upper
117	100		
119	85.5	76.4	116.4
121	35.3	11.9	51.9

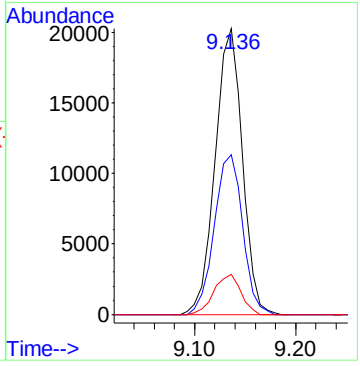


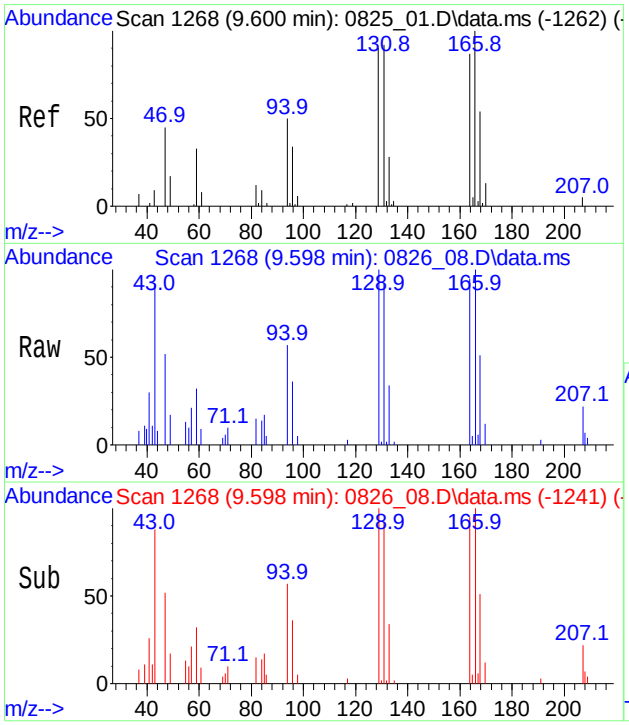


#18
Toluene
Conc: 8$ 1.367 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. -0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 37895

Ion	Ratio	Lower	Upper
91	100		
92	58.1	46.2	69.2
65	13.7	11.0	16.6

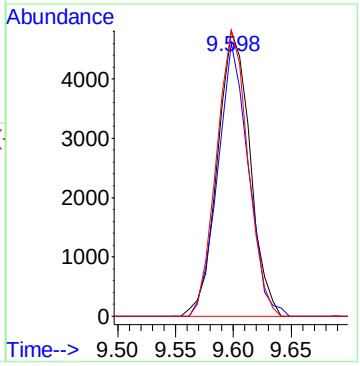


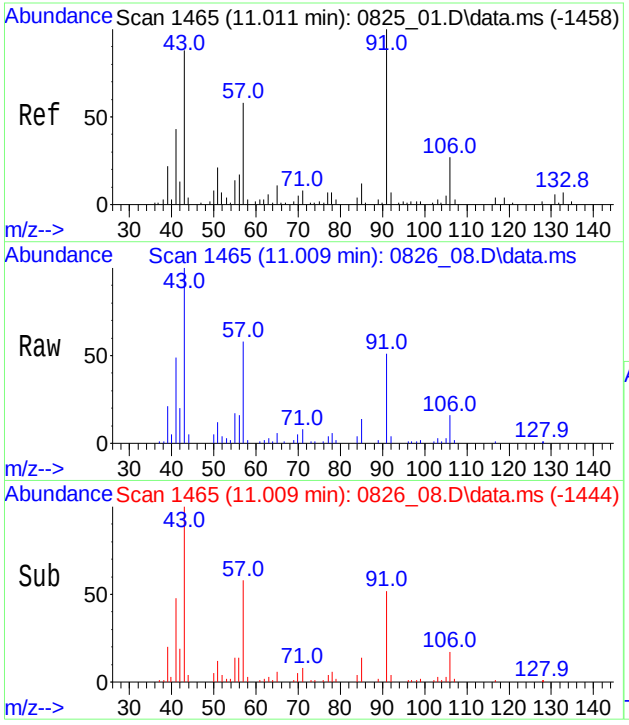


#19
Tetrachloroethene
Conc: 8$ 0.540 ppbv
RT: 9.598 min Scan# 1268
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:166 Resp: 9300

Ion	Ratio	Lower	Upper
166	100		
164	90.0	62.4	93.6
129	96.8	69.8	104.8

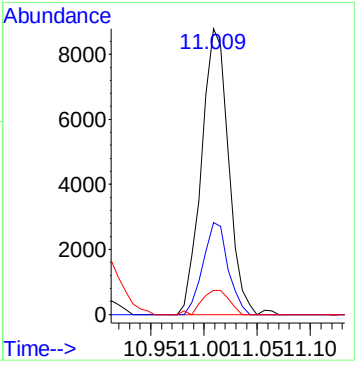


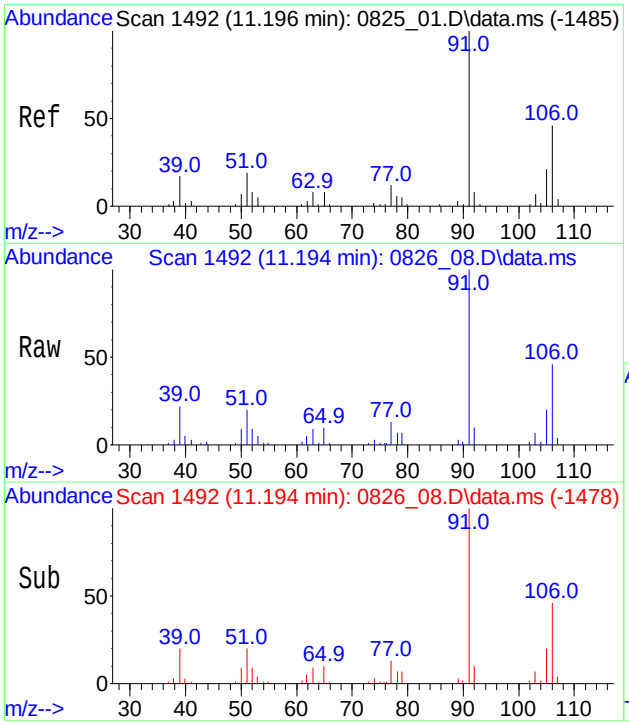


#22
Ethylbenzene
Conc: 8$ 0.405 ppbv
RT: 11.009 min Scan# 1465
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 15493

Ion	Ratio	Lower	Upper
91	100		
106	29.7	12.2	52.2
77	8.5	0.0	28.6

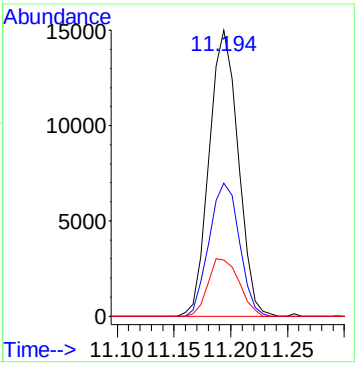


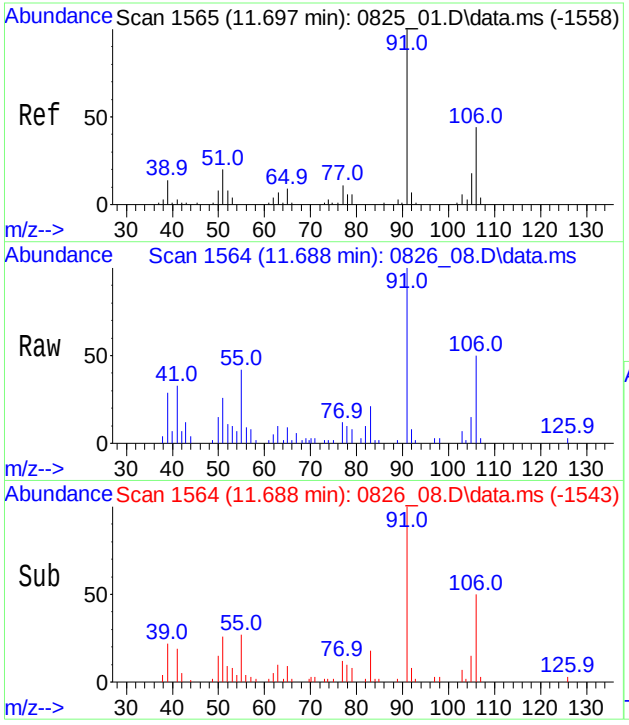


#23
m,p-Xylene
Conc: 8$ 0.910 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 26583

Ion	Ratio	Lower	Upper
91	100		
106	48.5	39.3	58.9
105	21.5	17.8	26.6

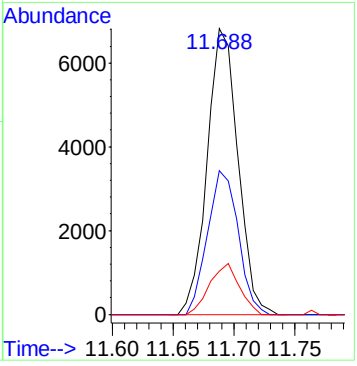


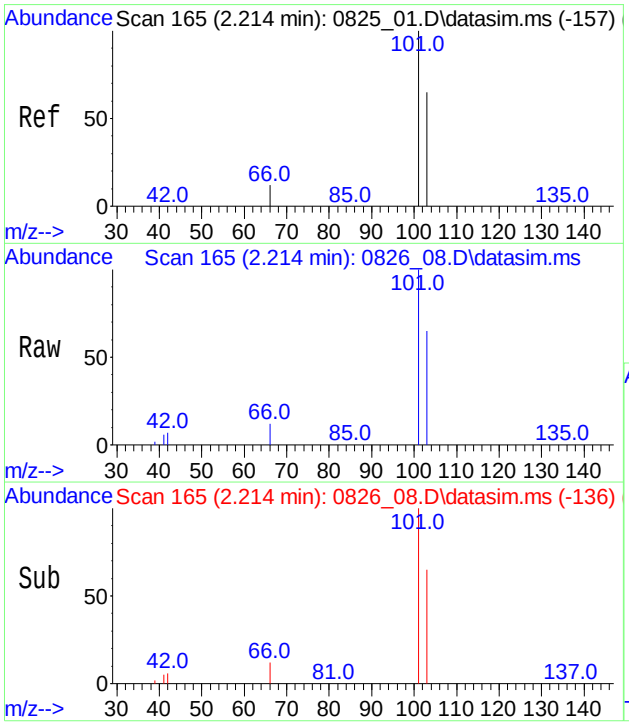


#24
o-Xylene
Conc: 8$ 0.373 ppbv
RT: 11.688 min Scan# 1564
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 11828

Ion	Ratio	Lower	Upper
91	100		
106	50.1	38.0	57.0
105	17.2	15.0	22.6

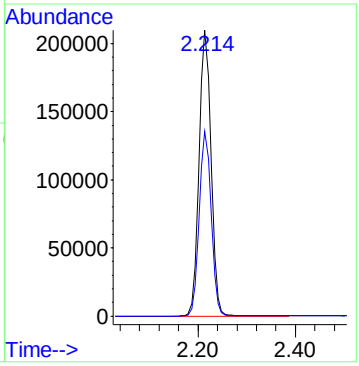


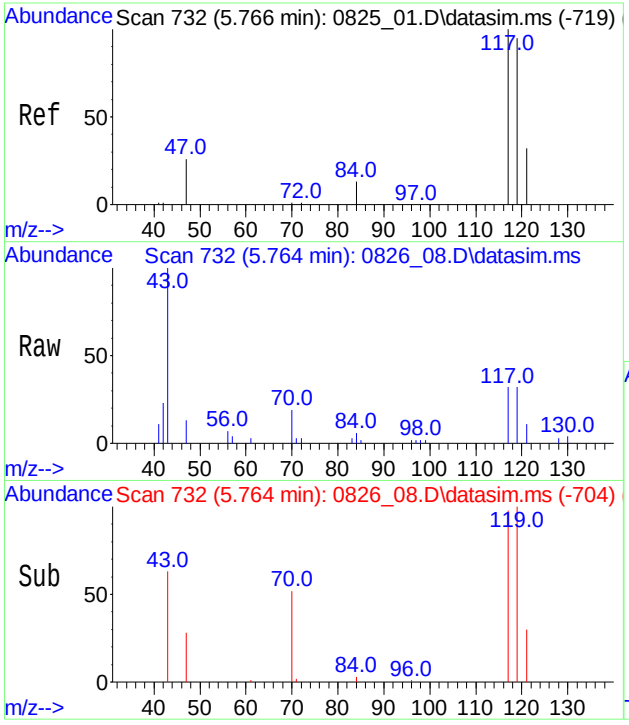


#32
Trichlorofluoromethane(sim)
Conc: 8$ 9.942 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:101 Resp: 357519

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.1	78.1

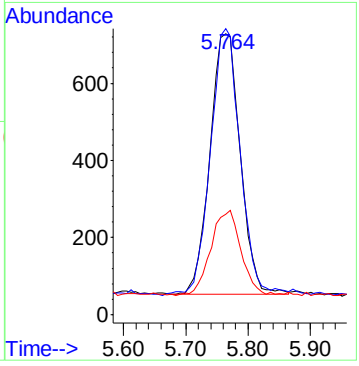


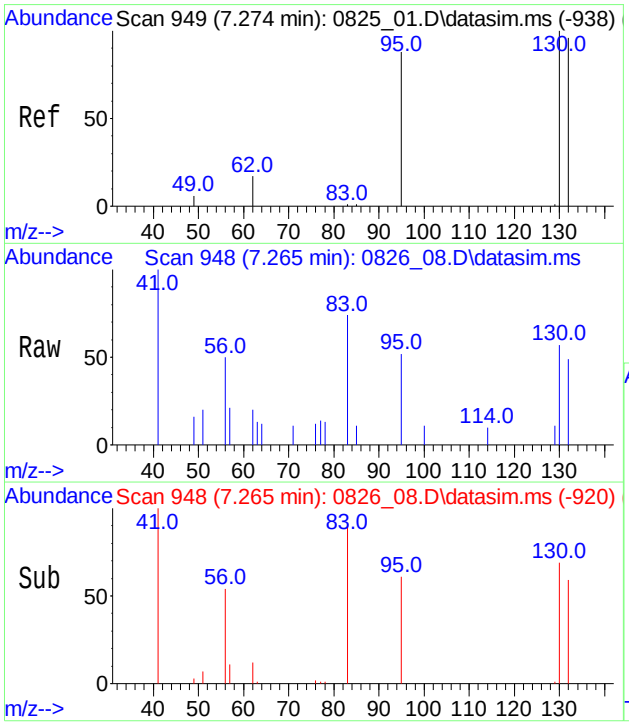


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.067 ppbv
RT: 5.764 min Scan# 732
Delta R.T. -0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:117 Resp: 2252

Ion	Ratio	Lower	Upper
117	100		
119	100.4	76.7	115.1
121	32.9	25.4	38.0

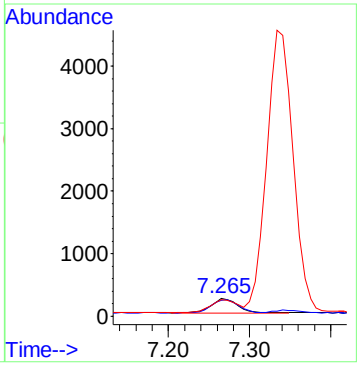


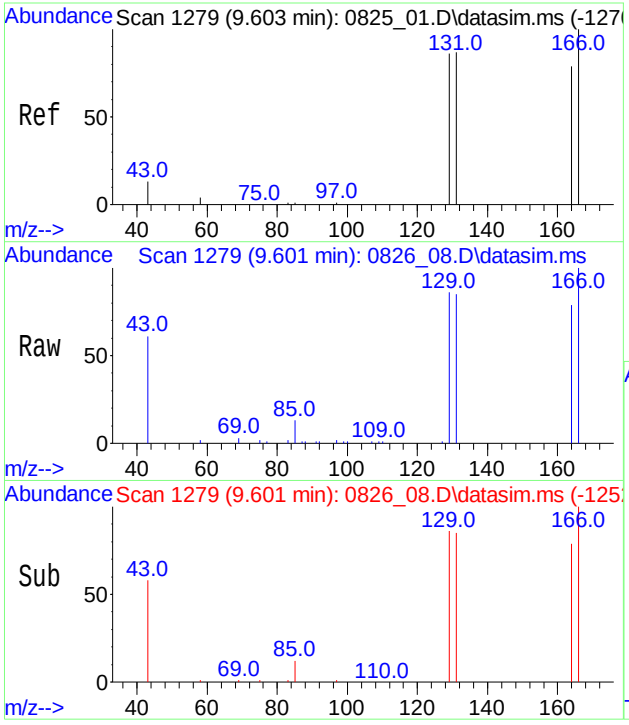


#44
Trichloroethene(sim)
Conc: 8$ 0.036 ppbv
RT: 7.265 min Scan# 948
Delta R.T. -0.012 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:130 Resp: 529

Ion	Ratio	Lower	Upper
130	100		
132	94.5	77.1	115.7
95	91.7	71.7	107.5

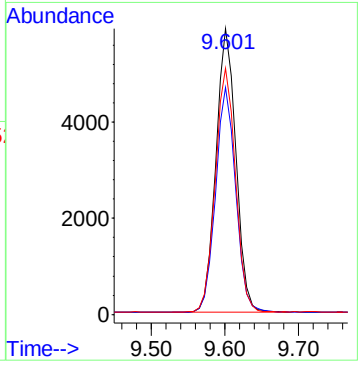


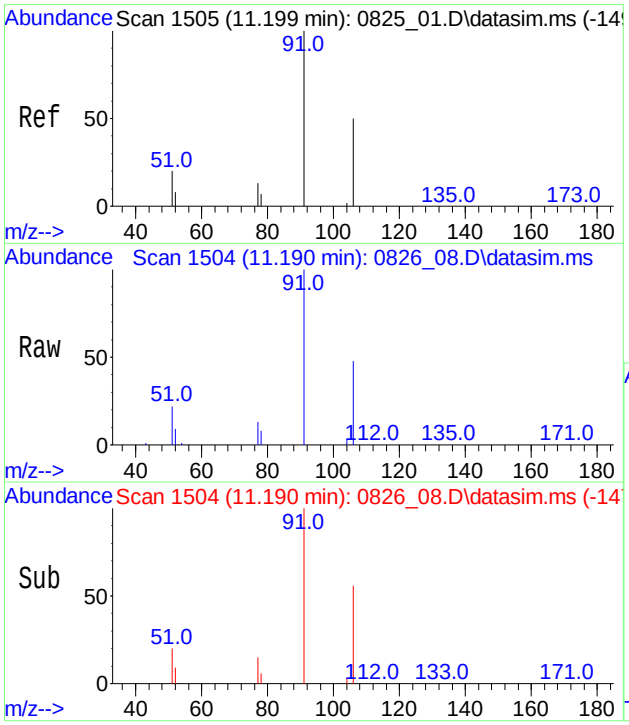


#46
Tetrachloroethene(sim)
Conc: 8$ 0.714 ppbv
RT: 9.601 min Scan# 1279
Delta R.T. -0.004 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:166 Resp: 11090

Ion	Ratio	Lower	Upper
166	100		
164	79.7	58.0	98.0
129	87.0	67.3	107.3

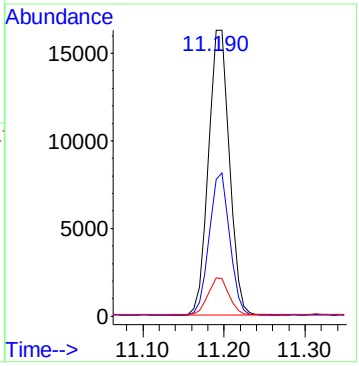




#48
m,p-Xylene(sim)
Conc: 8$ 1.015 ppbv
RT: 11.190 min Scan# 1504
Delta R.T. -0.011 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 29058

Ion	Ratio	Lower	Upper
91	100		
106	48.9	44.2	54.0
77	12.9	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1970

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CANISTER BLK 1970

Canister: CANBL Lab File ID: 0813_09.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 08/13/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\13\
Data File : 0813_09.D
Acq On : 13 Aug 2020 4:37 pm
Operator : Keith
Client ID : CANISTER BLK 1970
Lab ID : CANISTER BLK 1970
ALS Vial : 140 Sample Multiplier: 1

Quant Time: Aug 13 21:49:33 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0810.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration

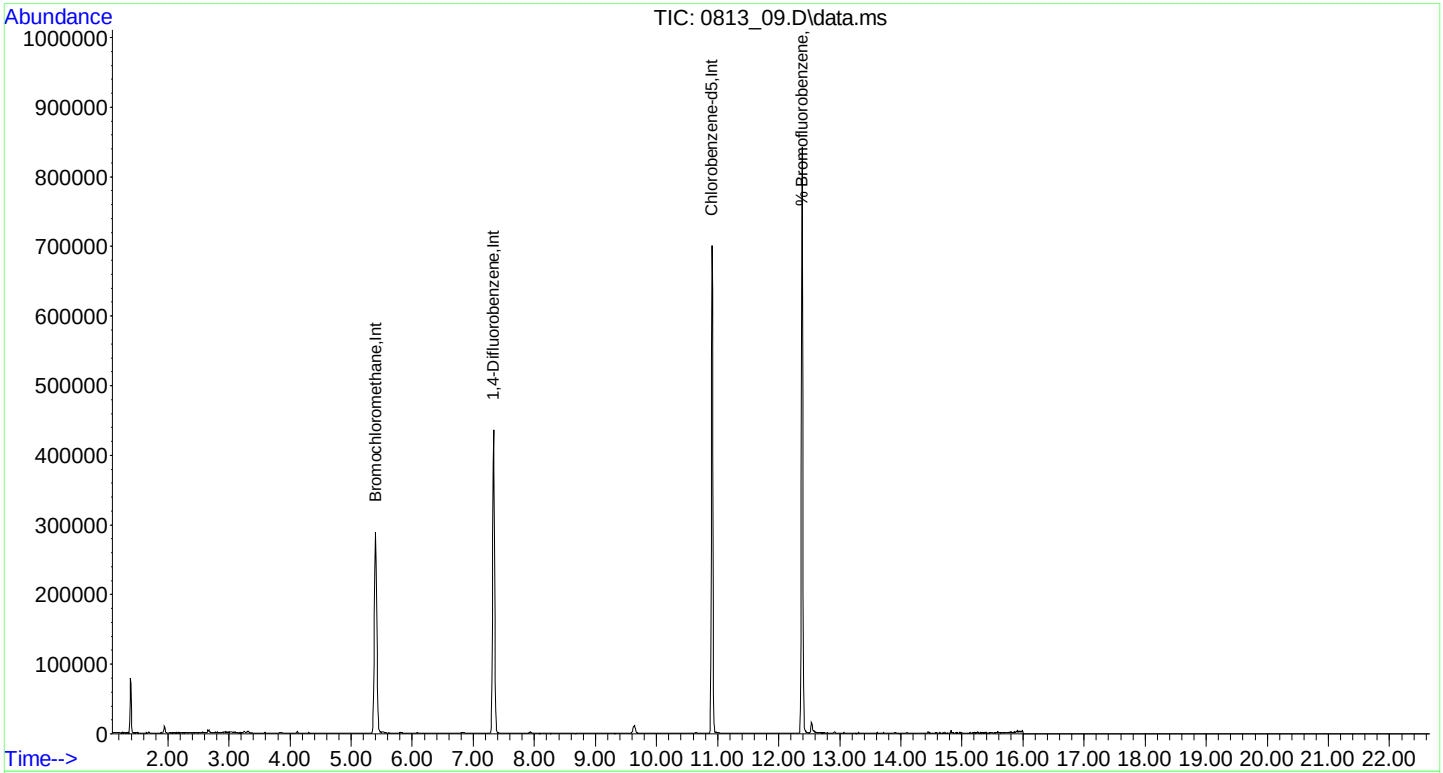
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.403	130	127739	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.333	114	397797	10.000	ng	0.00
53) Chlorobenzene-d5	10.908	82	170287	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.406	130	139251	10.000	ng	#-0.01
94) 1,4-Difluorobenzene(sim)	7.336	114	447329	10.000	ng	-0.01
104) Chlorobenzene-d5(sim)	10.911	82	185110	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.382	95	266561	10.182	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.80%			
Target Compounds						Qvalue

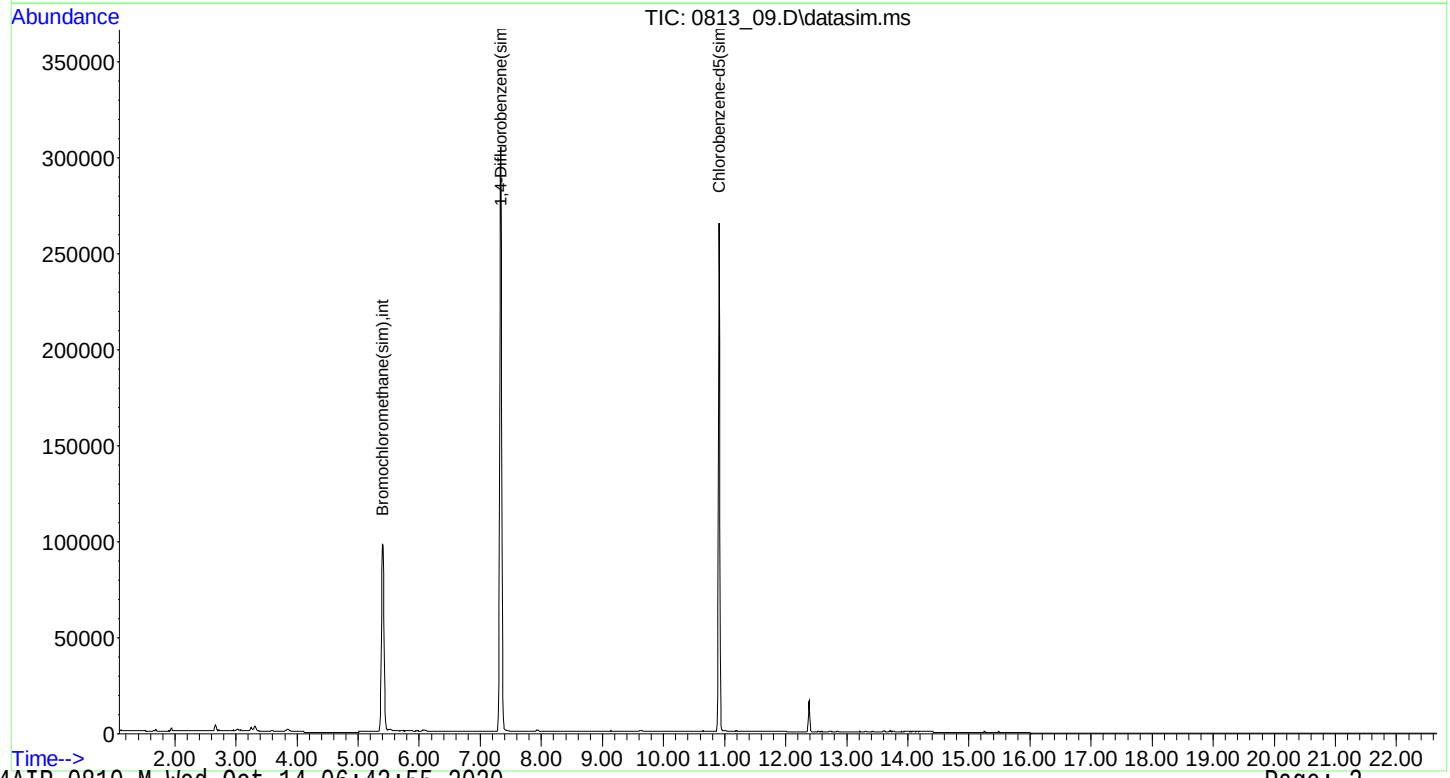
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\13\
Data File : 0813_09.D
Acq On : 13 Aug 2020 4:37 pm
Operator : Keith
Client ID : CANISTER BLK 1970
Lab ID : CANISTER BLK 1970
ALS Vial : 140 Sample Multiplier: 1

Quant Time: Aug 13 21:49:33 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0810.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 1972

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CANISTER BLK 1972

Canister: CANBL Lab File ID: 0813_11.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 08/13/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\13\
Data File : 0813_11.D
Acq On : 13 Aug 2020 5:50 pm
Operator : Keith
Client ID : CANISTER BLK 1972
Lab ID : CANISTER BLK 1972
ALS Vial : 142 Sample Multiplier: 1

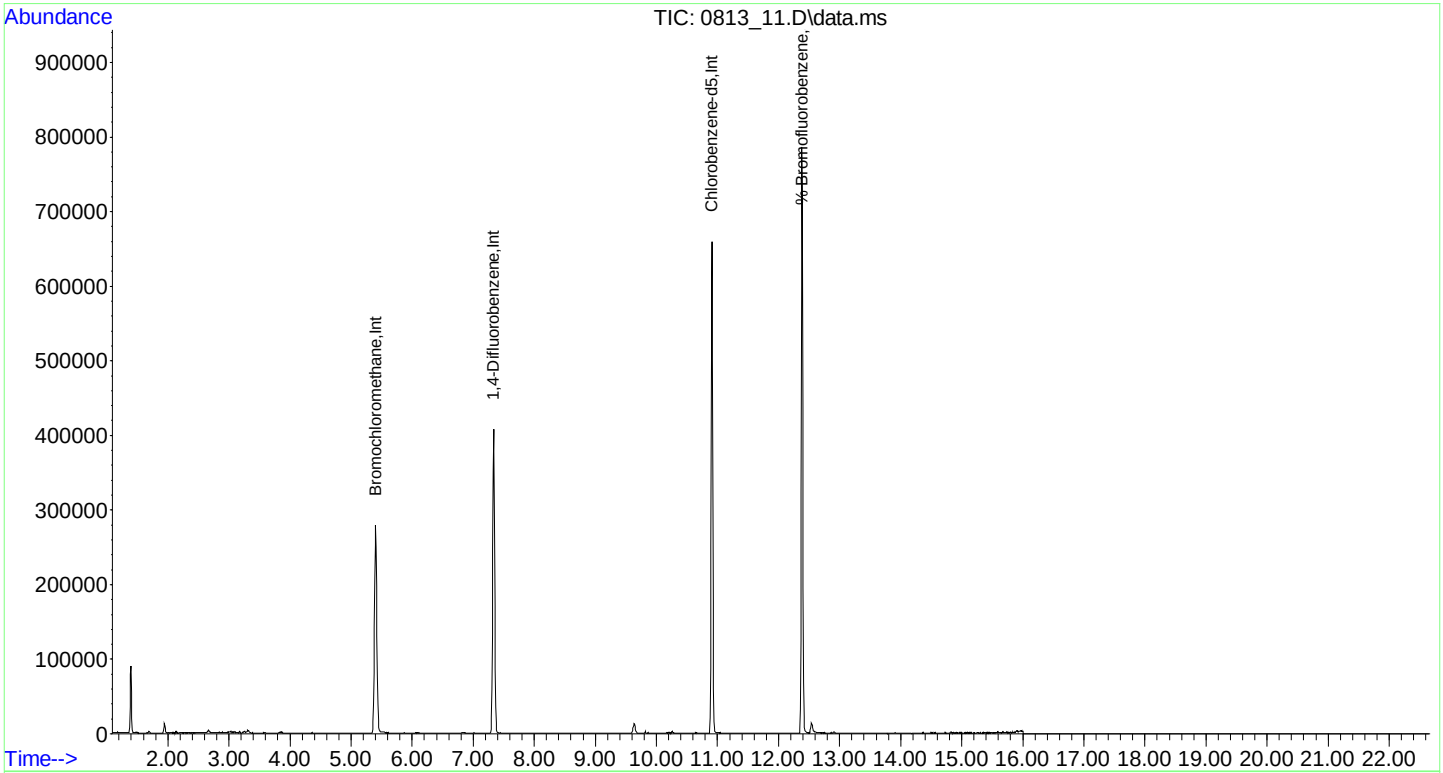
Quant Time: Aug 13 21:49:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0810.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration

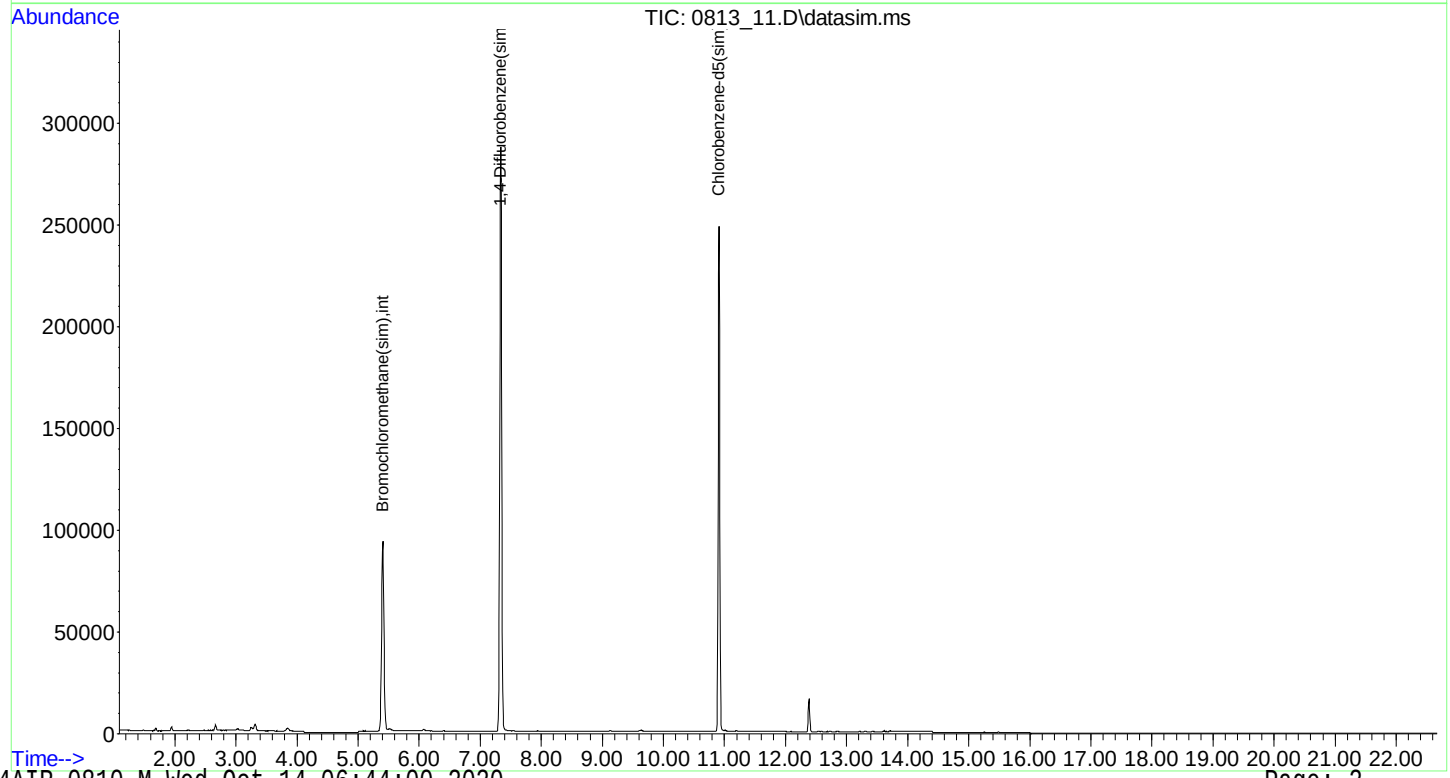
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.403	130	120119	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.333	114	374839	10.000	ng	0.00
53) Chlorobenzene-d5	10.908	82	159825	10.000	ng	0.00
80) Bromochloromethane(sim)	5.406	130	130580	10.000	ng	#-0.01
94) 1,4-Difluorobenzene(sim)	7.336	114	422776	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	10.911	82	173853	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.383	95	247193	10.061	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.60%			
Target Compounds						Qvalue

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

Data Path : H:\AIR2020\CHEM24\08AUG\13\
Data File : 0813_11.D
Acq On : 13 Aug 2020 5:50 pm
Operator : Keith
Client ID : CANISTER BLK 1972
Lab ID : CANISTER BLK 1972
ALS Vial : 142 Sample Multiplier: 1

Quant Time: Aug 13 21:49:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0810.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 483

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CANISTER BLK 483

Canister: CANBL Lab File ID: 0519_18.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 05/19/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\19\
Data File : 0519_18.D
Acq On : 19 May 2020 11:17 pm
Operator :
Client ID : CANISTER BLK 483
Lab ID : CANISTER BLK 483
ALS Vial : 21 Sample Multiplier: 1

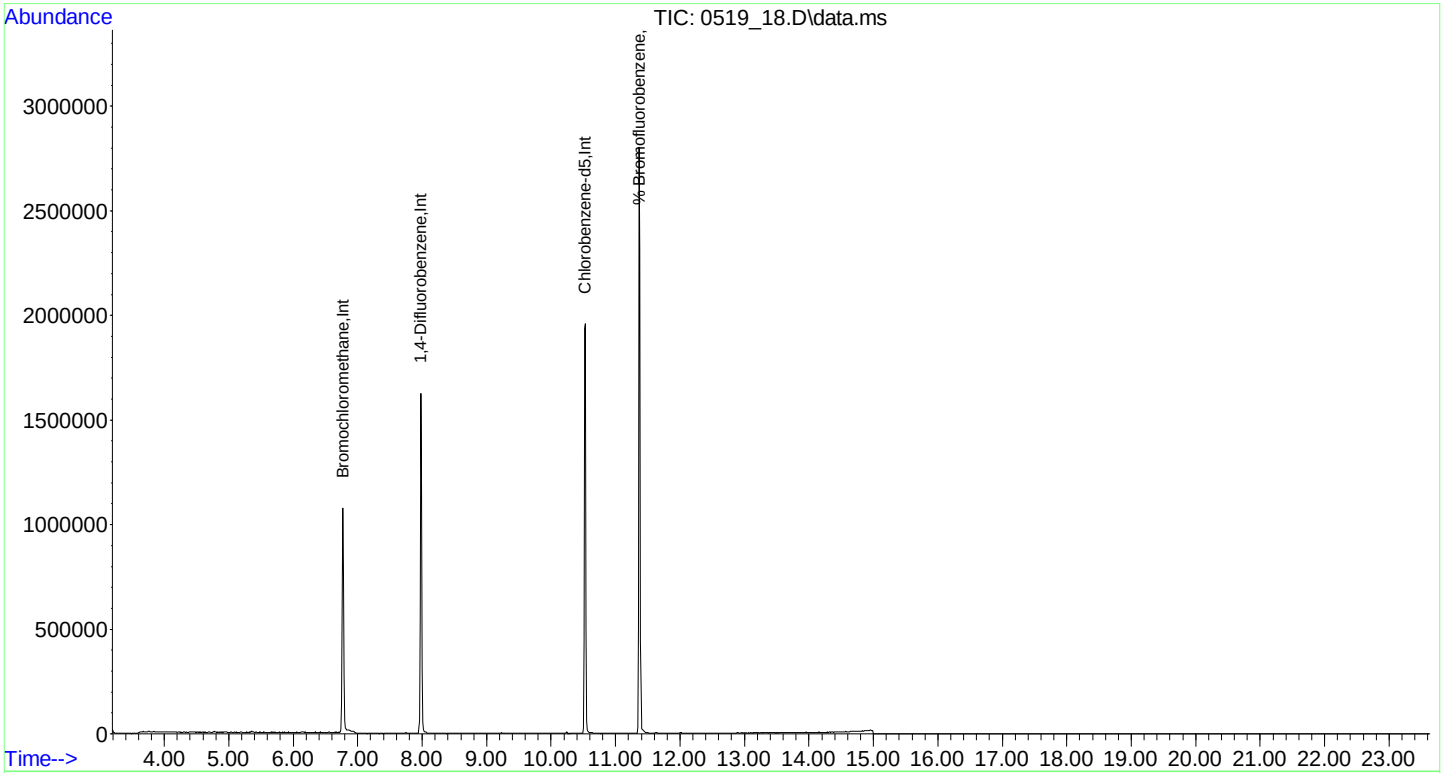
Quant Time: May 20 09:22:17 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0510.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon May 11 08:38:18 2020
Response via : Initial Calibration

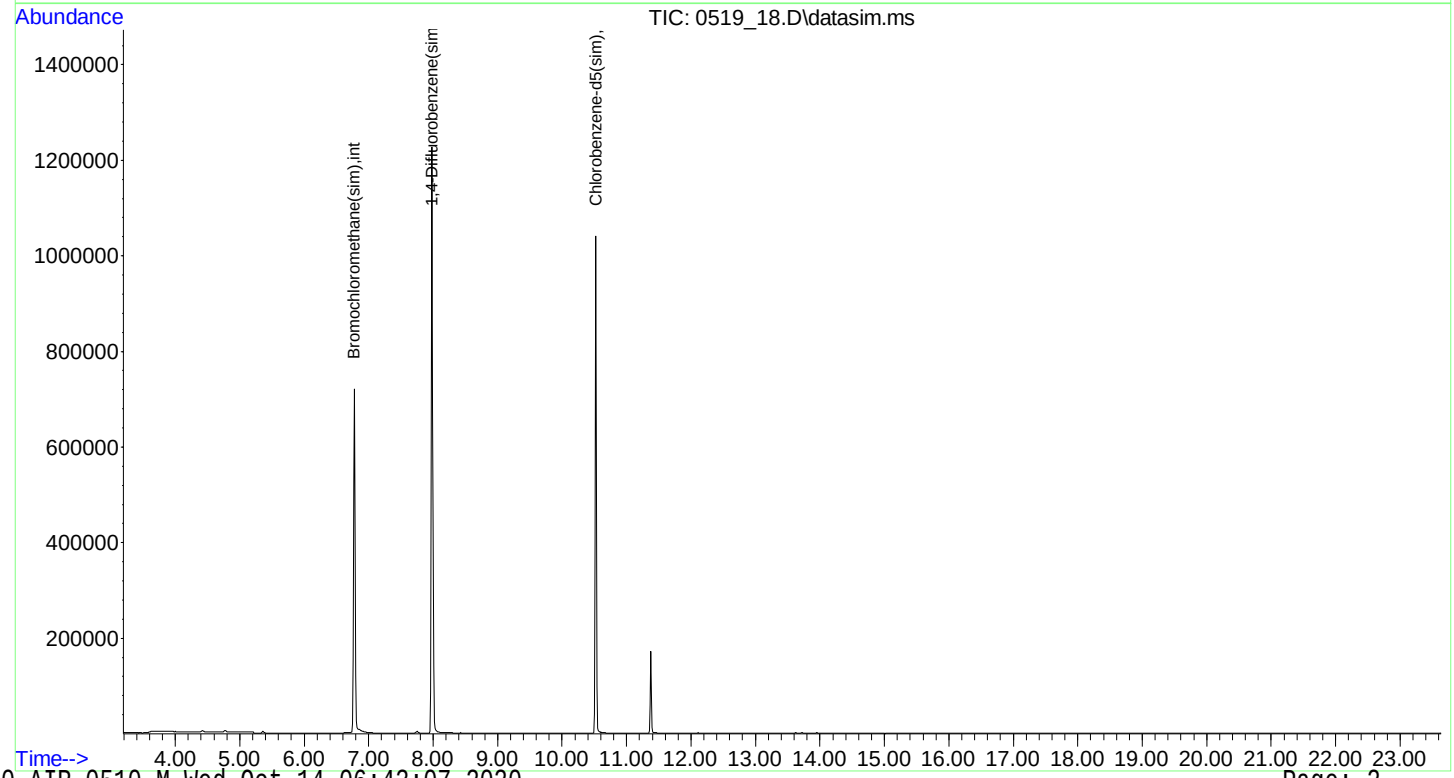
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.770	130	294806	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.976	114	874428	10.000	ng	-0.01
53) Chlorobenzene-d5	10.528	82	510149	10.000	ng	0.00
80) Bromochloromethane(sim)	6.775	130	332393	10.000	ng	#-0.02
94) 1,4-Difluorobenzene(sim)	7.982	114	992574	10.000	ng	-0.01
104) Chlorobenzene-d5(sim)	10.524	82	557890	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	11.369	95	691593	10.030	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.30%			
Target Compounds						Qvalue

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

Data Path : H:\AIR2020\CHEM20\05MAY\19\
Data File : 0519_18.D
Acq On : 19 May 2020 11:17 pm
Operator :
Client ID : CANISTER BLK 483
Lab ID : CANISTER BLK 483
ALS Vial : 21 Sample Multiplier: 1

Quant Time: May 20 09:22:17 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0510.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon May 11 08:38:18 2020
Response via : Initial Calibration





1

CLIENT ID

AIR ANALYSIS DATA SHEET

CANISTER BLK 23330

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CANISTER BLK 23330

Canister: CANBL Lab File ID: 0519_19.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 05/19/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\19\
Data File : 0519_19.D
Acq On : 19 May 2020 11:56 pm
Operator :
Client ID : CANISTER BLK 23330
Lab ID : CANISTER BLK 23330
ALS Vial : 22 Sample Multiplier: 1

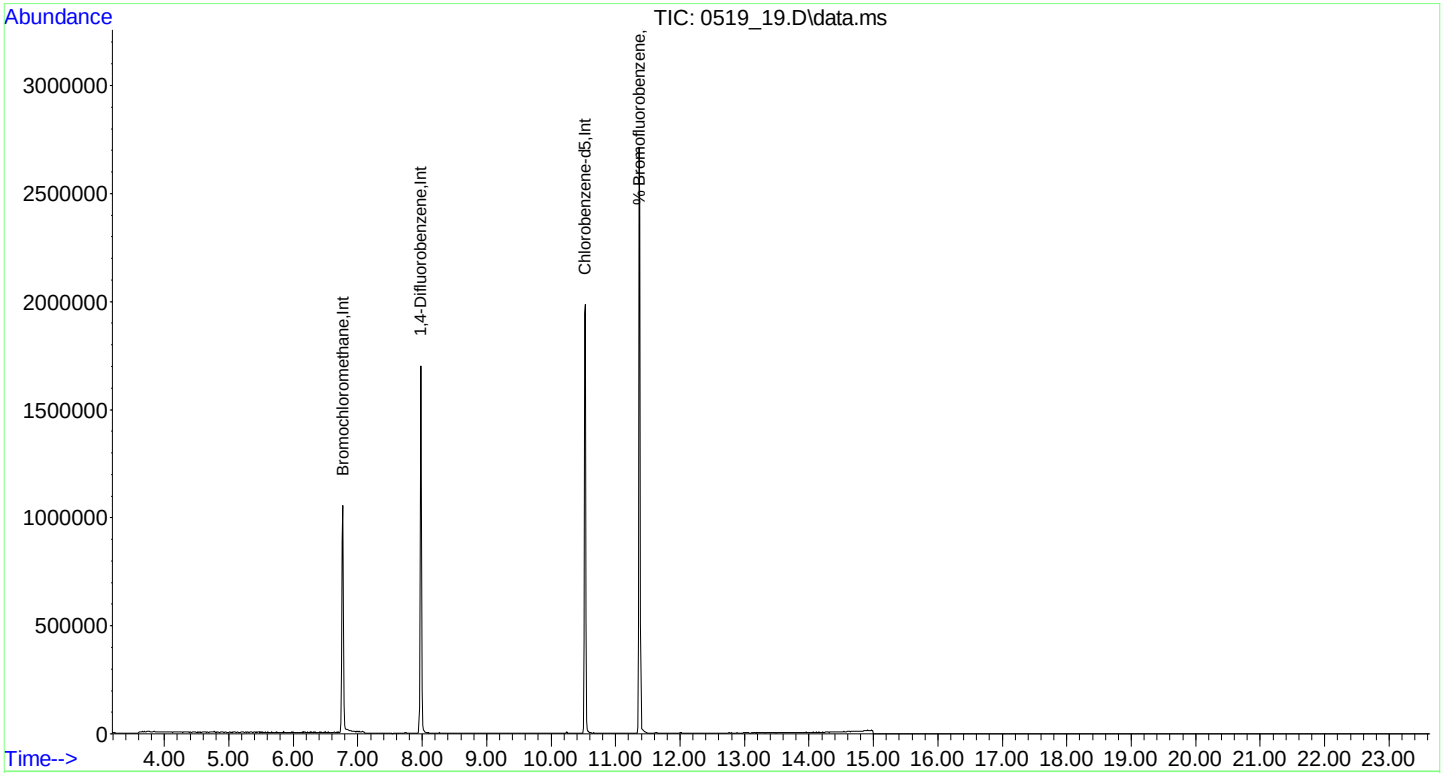
Quant Time: May 20 09:28:52 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0510.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon May 11 08:38:18 2020
Response via : Initial Calibration

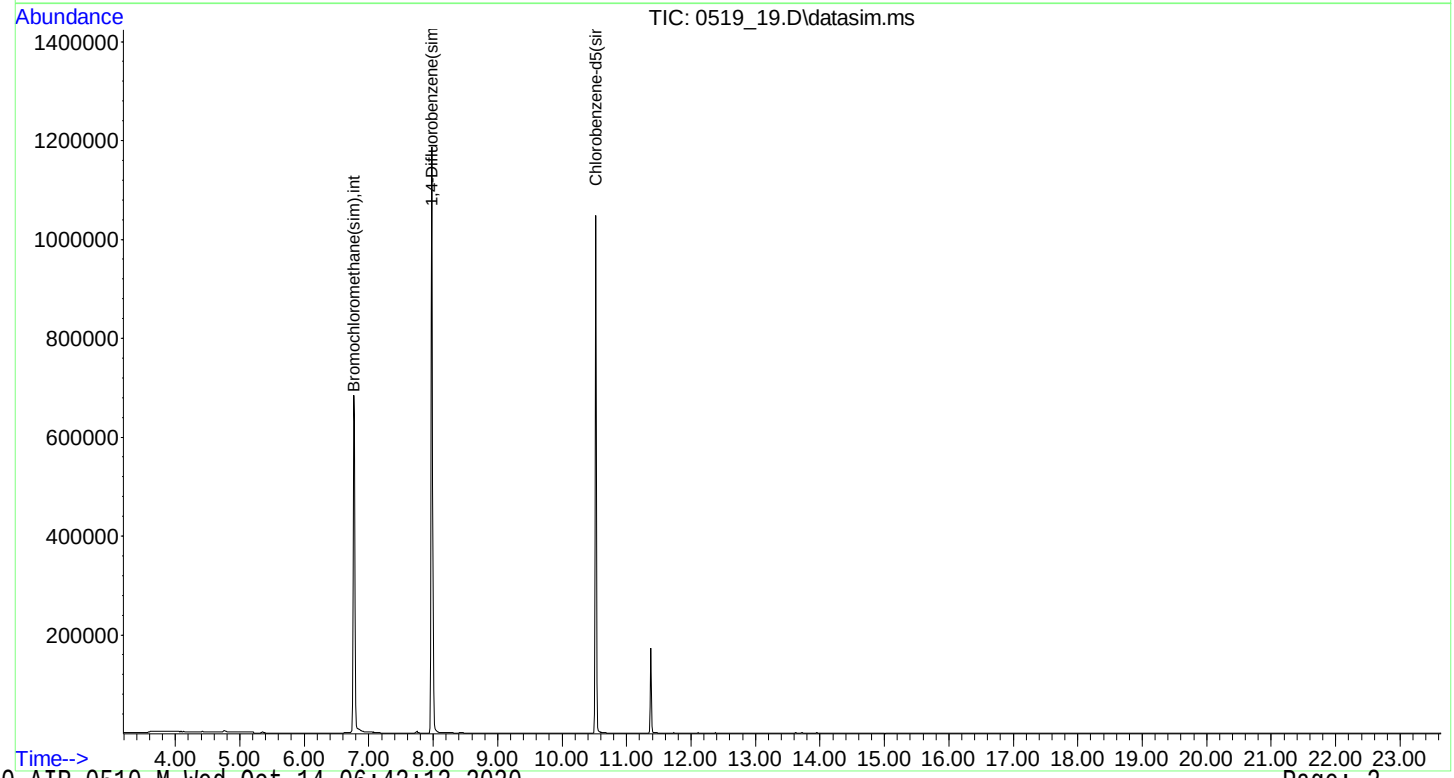
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.769	130	302490	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.976	114	874615	10.000	ng	-0.01
53) Chlorobenzene-d5	10.528	82	507788	10.000	ng	0.00
80) Bromochloromethane(sim)	6.775	130	334879	10.000	ng	#-0.02
94) 1,4-Difluorobenzene(sim)	7.982	114	1000421	10.000	ng	-0.01
104) Chlorobenzene-d5(sim)	10.523	82	561810	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	11.369	95	694302	10.116	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.20%			
Target Compounds						Qvalue

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

Data Path : H:\AIR2020\CHEM20\05MAY\19\
Data File : 0519_19.D
Acq On : 19 May 2020 11:56 pm
Operator :
Client ID : CANISTER BLK 23330
Lab ID : CANISTER BLK 23330
ALS Vial : 22 Sample Multiplier: 1

Quant Time: May 20 09:28:52 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0510.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon May 11 08:38:18 2020
Response via : Initial Calibration





1

CLIENT ID

AIR ANALYSIS DATA SHEET

CANISTER BLK 28582

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61553 Lab Sample ID: CANISTER BLK 28582

Canister: CANBL Lab File ID: 0618_22.D

Instrument: CHEM24 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 06/19/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\06JUN\18\
Data File : 0618_22.D
Acq On : 19 Jun 2020 5:08 pm
Operator : Keith
Client ID : CANISTER BLK 28582
Lab ID : CANISTER BLK 28582
ALS Vial : 152 Sample Multiplier: 1

Quant Time: Jun 22 09:10:20 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0612.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Jun 12 15:18:10 2020
Response via : Initial Calibration

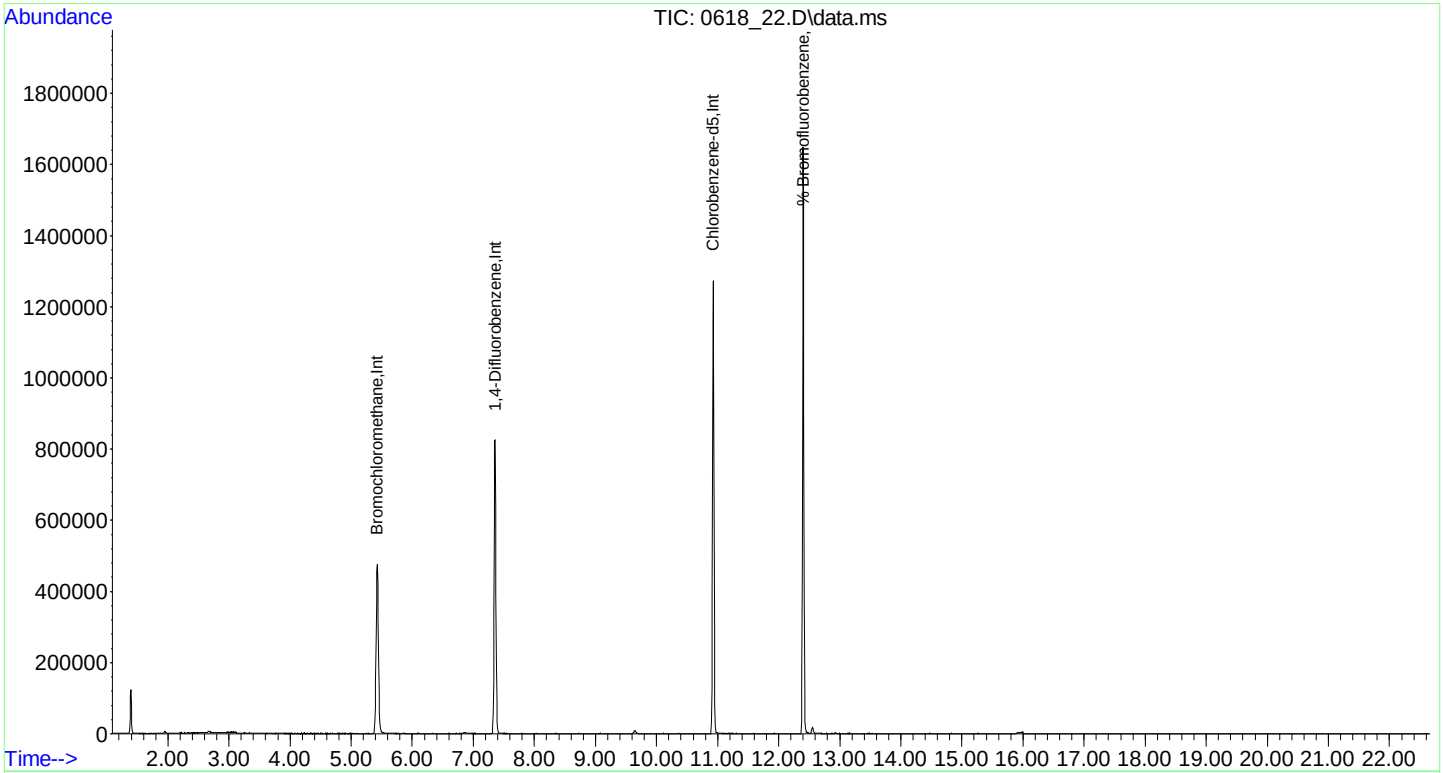
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.429	130	194391	10.000	ng	-0.02
36) 1,4-Difluorobenzene	7.359	114	646588	10.000	ng	-0.01
53) Chlorobenzene-d5	10.927	82	392166	10.000	ng	-0.01
80) Bromochloromethane(sim)	5.432	130	202968	10.000	ng	#-0.02
94) 1,4-Difluorobenzene(sim)	7.355	114	724316	10.000	ng	-0.02
104) Chlorobenzene-d5(sim)	10.929	82	423766	10.000	ng	-0.01
System Monitoring Compounds						
62) % Bromofluorobenzene	12.400	95	501332	9.664	ppbv	-0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.60%			
Target Compounds						Qvalue

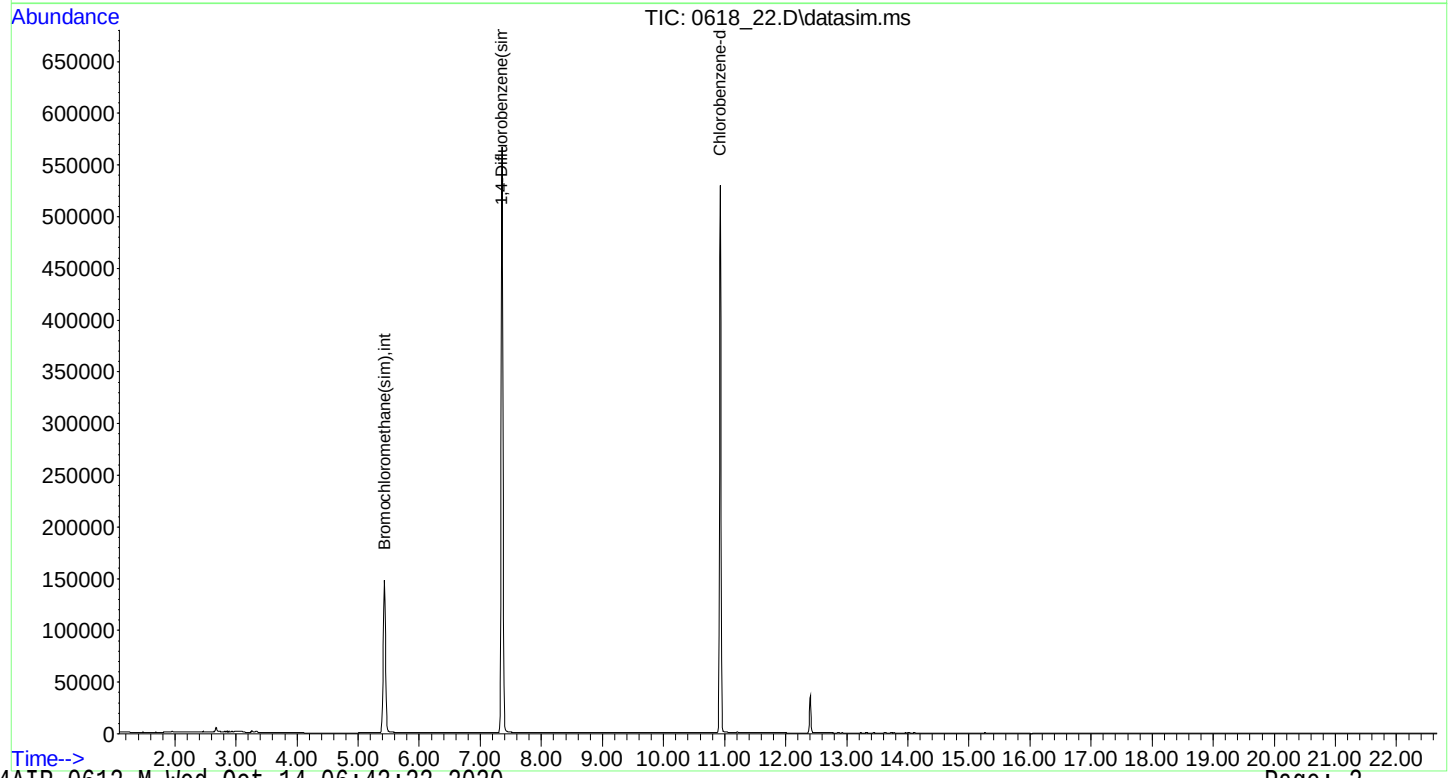
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\06JUN\18\
Data File : 0618_22.D
Acq On : 19 Jun 2020 5:08 pm
Operator : Keith
Client ID : CANISTER BLK 28582
Lab ID : CANISTER BLK 28582
ALS Vial : 152 Sample Multiplier: 1

Quant Time: Jun 22 09:10:20 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0612.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Fri Jun 12 15:18:10 2020
Response via : Initial Calibration





Injection Log

Data Directory: H:\AIR2020\CHEM20\05MAY\19\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0519_22.D	xxxxxxxxxx		N/A
2)	6	0519_02.D	xxxxxxxxxx		05/19/20 13:06
3)	6	0519_03.D	xxxxxxxxxx		05/19/20 13:43
4)	7	0519_04.D	xxxxxxxxxx		05/19/20 14:21
5)	8	0519_05.D	xxxxxxxxxx		05/19/20 14:56
6)	9	0519_06.D	xxxxxxxxxx		05/19/20 15:30
7)	10	0519_07.D	xxxxxxxxxx		05/19/20 16:09
8)	11	0519_08.D	xxxxxxxxxx		05/19/20 16:48
9)	12	0519_09.D	xxxxxxxxxx		05/19/20 17:27
10)	13	0519_10.D	xxxxxxxxxx		05/19/20 18:06
11)	14	0519_11.D	xxxxxxxxxx		05/19/20 18:46
12)	15	0519_12.D	xxxxxxxxxx		05/19/20 19:25
13)	16	0519_13.D	xxxxxxxxxx		05/19/20 20:04
14)	17	0519_14.D	xxxxxxxxxx		05/19/20 20:43
15)	18	0519_15.D	xxxxxxxxxx		05/19/20 21:22
16)	19	0519_16.D	xxxxxxxxxx		05/19/20 22:00
17)	20	0519_17.D	xxxxxxxxxx		05/19/20 22:39
18)	21	0519_18.D	CANISTER BLK 483	CANISTER BLK 483	05/19/20 23:17
19)	22	0519_19.D	CANISTER BLK 23330	CANISTER BLK 23330	05/19/20 23:56
20)	23	0519_20.D	xxxxxxxxxx		05/20/20 0:35
21)	24	0519_21.D	xxxxxxxxxx		05/20/20 1:11

Injection Log

Data Directory: H:\AIR2020\CHEM24\06JUN\18\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	131	0618_01.D	xxxxxxxxxx		06/18/20 20:26
2)	132	0618_02.D	xxxxxxxxxx		06/18/20 20:59
3)	133	0618_03.D	xxxxxxxxxx		06/18/20 21:32
4)	134	0618_04.D	xxxxxxxxxx		06/18/20 22:09
5)	135	0618_05.D	xxxxxxxxxx		06/18/20 22:40
6)	136	0618_06.D	xxxxxxxxxx		06/18/20 23:10
7)	137	0618_07.D	xxxxxxxxxx		06/19/20 0:32
8)	138	0618_08.D	xxxxxxxxxx		06/19/20 1:05
9)	139	0618_09.D	xxxxxxxxxx		06/19/20 1:38
10)	140	0618_10.D	xxxxxxxxxx		06/19/20 2:10
11)	141	0618_11.D	xxxxxxxxxx		06/19/20 2:43
12)	142	0618_12.D	xxxxxxxxxx		06/19/20 3:15
13)	143	0618_13.D	xxxxxxxxxx		06/19/20 9:41
14)	144	0618_14.D	xxxxxxxxxx		06/19/20 10:17
15)	145	0618_15.D	xxxxxxxxxx		06/19/20 10:54
16)	146	0618_16.D	xxxxxxxxxx		06/19/20 11:31
17)	147	0618_17.D	xxxxxxxxxx		06/19/20 12:07
18)	148	0618_18.D	xxxxxxxxxx		06/19/20 12:44
19)	149	0618_19.D	xxxxxxxxxx		06/19/20 13:21
20)	150	0618_20.D	xxxxxxxxxx		06/19/20 15:55
21)	151	0618_21.D	xxxxxxxxxx		06/19/20 16:32
22)	152	0618_22.D	CANISTER BLK 28582	CANISTER BLK 28582	06/19/20 17:08
23)	153	0618_23.D	xxxxxxxxxx		06/19/20 17:45
24)	154	0618_24.D	xxxxxxxxxx		06/19/20 18:21
25)	155	0618_25.D	xxxxxxxxxx		06/19/20 18:58
26)	156	0619_01.D	xxxxxxxxxx		06/19/20 19:34
27)	157	0619_02.D	xxxxxxxxxx		06/19/20 20:08
28)	158	0619_03.D	xxxxxxxxxx		06/19/20 20:41
29)	159	0619_04.D	xxxxxxxxxx		06/19/20 21:18
30)	160	0619_05.D	xxxxxxxxxx		06/19/20 21:49
31)	161	0619_06.D	xxxxxxxxxx		06/19/20 22:20
32)	162	0619_07.D	xxxxxxxxxx		06/19/20 22:55
33)	163	0619_08.D	xxxxxxxxxx		06/19/20 23:30
34)	164	0619_09.D	xxxxxxxxxx		06/20/20 0:26
35)	165	0619_10.D	xxxxxxxxxx		06/20/20 1:03
36)	166	0619_11.D	xxxxxxxxxx		06/20/20 1:51
37)	168	0619_12.D	xxxxxxxxxx		06/20/20 3:31
38)	169	0619_13.D	xxxxxxxxxx		06/20/20 4:05
39)	170	0619_14.D	xxxxxxxxxx		06/20/20 4:38

Injection Log

Data Directory: H:\AIR2020\CHEM24\08AUG\13\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0813_07.D	xxxxxxxxxx		N/A
2)	132	0813_01.D	xxxxxxxxxx		08/13/20 11:48
3)	134	0813_02.D	xxxxxxxxxx		08/13/20 12:22
4)	135	0813_03.D	xxxxxxxxxx		08/13/20 12:56
5)	136	0813_04.D	xxxxxxxxxx		08/13/20 13:33
6)	138	0813_05.D	xxxxxxxxxx		08/13/20 14:04
7)	138	0813_06.D	xxxxxxxxxx		08/13/20 14:36
8)	139	0813_08.D	xxxxxxxxxx		08/13/20 15:59
9)	140	0813_09.D	CANISTER BLK 1970	CANISTER BLK 1970	08/13/20 16:37
10)	141	0813_10.D	xxxxxxxxxx		08/13/20 17:14
11)	142	0813_11.D	CANISTER BLK 1972	CANISTER BLK 1972	08/13/20 17:50
12)	143	0813_12.D	xxxxxxxxxx		08/13/20 18:27
13)	144	0813_13.D	xxxxxxxxxx		08/13/20 19:04
14)	145	0813_14.D	xxxxxxxxxx		08/13/20 19:41
15)	146	0813_15.D	xxxxxxxxxx		08/13/20 20:14
16)	147	0813_16.D	xxxxxxxxxx		08/13/20 20:47
17)	148	0813_17.D	xxxxxxxxxx		08/13/20 21:20
18)	149	0813_18.D	xxxxxxxxxx		08/13/20 21:53
19)	150	0813_19.D	xxxxxxxxxx		08/13/20 22:26
20)	151	0813_20.D	xxxxxxxxxx		08/13/20 23:03
21)	152	0813_21.D	xxxxxxxxxx		08/13/20 23:40
22)	153	0813_22.D	xxxxxxxxxx		08/14/20 0:22
23)	154	0813_23.D	xxxxxxxxxx		08/14/20 0:59
24)	155	0813_24.D	xxxxxxxxxx		08/14/20 1:36
25)	156	0813_25.D	xxxxxxxxxx		08/14/20 2:07
26)	157	0813_26.D	xxxxxxxxxx		08/14/20 2:44
27)	158	0813_27.D	xxxxxxxxxx		08/14/20 3:21
28)	159	0813_28.D	xxxxxxxxxx		08/14/20 3:58
29)	159	0813_29.D	xxxxxxxxxx		08/14/20 8:39
30)	160	0813_30.D	xxxxxxxxxx		08/14/20 9:16
31)	161	0813_31.D	xxxxxxxxxx		08/14/20 9:53
32)	162	0813_32.D	xxxxxxxxxx		08/14/20 10:38
33)	163	0814_01.D	xxxxxxxxxx		08/14/20 11:10
34)	164	0814_02.D	xxxxxxxxxx		08/14/20 11:44
35)	165	0814_03.D	xxxxxxxxxx		08/14/20 12:18
36)	166	0814_04.D	xxxxxxxxxx		08/14/20 12:55
37)	167	0814_05.D	xxxxxxxxxx		08/14/20 13:27
38)	168	0814_06.D	xxxxxxxxxx		08/14/20 13:58
39)	169	0814_07.D	xxxxxxxxxx		08/14/20 18:41
40)	170	0814_08.D	xxxxxxxxxx		08/14/20 19:13
41)	171	0814_09.D	xxxxxxxxxx		08/14/20 19:46
42)	172	0814_10.D	xxxxxxxxxx		08/14/20 20:19
43)	173	0814_11.D	xxxxxxxxxx		08/14/20 21:02
44)	174	0814_12.D	xxxxxxxxxx		08/14/20 21:34
45)	175	0814_13.D	xxxxxxxxxx		08/14/20 22:08
46)	176	0814_14.D	xxxxxxxxxx		08/14/20 22:42

Injection Log

Data Directory: H:\AIR2020\CHEM24\08AUG\21\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	132	0821_01.D	xxxxxxxxxx		08/21/20 8:38
2)	134	0821_02.D	xxxxxxxxxx		08/21/20 9:12
3)	135	0821_03.D	xxxxxxxxxx		08/21/20 9:46
4)	136	0821_04.D	xxxxxxxxxx		08/21/20 10:23
5)	138	0821_05.D	xxxxxxxxxx		08/21/20 10:55
6)	138	0821_06.D	xxxxxxxxxx		08/21/20 11:27
7)	6	0821_07.D	xxxxxxxxxx		08/21/20 12:08
8)	5	0821_08.D	xxxxxxxxxx		08/21/20 12:40
9)	7	0821_09.D	BFB TUNE	0/0	08/21/20 13:12
10)	8	0821_10.D	ICAL 0.02	0.02	08/21/20 13:44
11)	9	0821_11.D	ICAL 0.035	0.035	08/21/20 14:16
12)	10	0821_12.D	ICAL 0.05	0.05	08/21/20 14:49
13)	11	0821_13.D	ICAL 0.1	0.10	08/21/20 15:22
14)	12	0821_14.D	ICAL 0.5	0.5	08/21/20 15:59
15)	13	0821_15.D	ICAL 2.5	2.5	08/21/20 16:36
16)	14	0821_16.D	ICAL 5	5.0	08/21/20 17:09
17)	15	0821_17.D	ICAL 25	25	08/21/20 18:42
18)	16	0821_18.D	ICAL 40	40	08/21/20 19:22
19)	17	0821_19.D	xxxxxxxxxx		08/21/20 19:54
20)	18	0821_20.D	ICAL 1	1.0ppb cc	08/21/20 20:28
21)	20	0821_21.D	ICAL 10	10ppb cc	08/21/20 21:53
22)	21	0821_22.D	xxxxxxxxxx		08/21/20 22:30
23)	22	0821_23.D	xxxxxxxxxx		08/21/20 23:01
24)	23	0821_24.D	xxxxxxxxxx		08/21/20 23:33
25)	24	0821_25.D	xxxxxxxxxx		08/22/20 0:55
26)	25	0821_26.D	xxxxxxxxxx		08/22/20 1:32
27)	26	0821_27.D	xxxxxxxxxx		08/22/20 2:09
28)	27	0821_28.D	xxxxxxxxxx		08/22/20 2:46
29)	28	0821_29.D	xxxxxxxxxx		08/22/20 3:18
30)	29	0821_30.D	xxxxxxxxxx		08/22/20 3:51
31)	30	0821_31.D	xxxxxxxxxx		08/22/20 4:24
32)	31	0821_32.D	xxxxxxxxxx		08/22/20 4:55
33)	32	0821_33.D	xxxxxxxxxx		08/22/20 5:29
34)	33	0821_34.D	xxxxxxxxxx		08/22/20 6:02

Injection Log

Data Directory: H:\AIR2020\CHEM24\08AUG\24\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0827_06.D	xxxxxxxxxx		N/A
2)	132	0824_01.D	xxxxxxxxxx		08/24/20 7:30
3)	134	0824_02.D	xxxxxxxxxx		08/24/20 8:04
4)	135	0824_03.D	xxxxxxxxxx		08/24/20 8:37
5)	136	0824_04.D	xxxxxxxxxx		08/24/20 9:14
6)	138	0824_05.D	xxxxxxxxxx		08/24/20 9:51
7)	138	0824_06.D	xxxxxxxxxx		08/24/20 10:23
8)	139	0824_07.D	xxxxxxxxxx		08/24/20 10:54
9)	140	0824_08.D	xxxxxxxxxx		08/24/20 11:27
10)	141	0824_09.D	xxxxxxxxxx		08/24/20 12:04
11)	142	0824_10.D	xxxxxxxxxx		08/24/20 12:40
12)	143	0824_11.D	xxxxxxxxxx		08/24/20 13:17
13)	144	0824_12.D	xxxxxxxxxx		08/24/20 13:54
14)	145	0824_13.D	xxxxxxxxxx		08/24/20 14:33
15)	146	0824_14.D	xxxxxxxxxx		08/24/20 15:10
16)	147	0824_15.D	xxxxxxxxxx		08/24/20 15:47
17)	148	0824_16.D	xxxxxxxxxx		08/24/20 16:24
18)	149	0824_17.D	xxxxxxxxxx		08/24/20 17:01
19)	150	0824_18.D	xxxxxxxxxx		08/24/20 17:38
20)	151	0824_19.D	xxxxxxxxxx		08/24/20 18:14
21)	152	0824_20.D	xxxxxxxxxx		08/24/20 18:47
22)	153	0824_21.D	xxxxxxxxxx		08/24/20 19:24
23)	154	0824_22.D	xxxxxxxxxx		08/24/20 20:01
24)	155	0824_23.D	xxxxxxxxxx		08/24/20 20:38
25)	156	0824_24.D	xxxxxxxxxx		08/24/20 21:15
26)	157	0824_25.D	xxxxxxxxxx		08/24/20 21:52
27)	158	0824_26.D	xxxxxxxxxx		08/24/20 22:33
28)	159	0824_27.D	xxxxxxxxxx		08/24/20 23:14
29)	160	0824_28.D	xxxxxxxxxx		08/25/20 0:37
30)	161	0824_29.D	xxxxxxxxxx		08/25/20 1:09
31)	162	0824_30.D	xxxxxxxxxx		08/25/20 1:42
32)	163	0824_31.D	xxxxxxxxxx		08/25/20 2:19
33)	165	0824_32.D	xxxxxxxxxx		08/25/20 2:56
34)	166	0824_33.D	xxxxxxxxxx		08/25/20 3:33
35)	167	0824_34.D	xxxxxxxxxx		08/25/20 4:10
36)	168	0824_35.D	xxxxxxxxxx		08/25/20 4:47
37)	169	0824_36.D	xxxxxxxxxx		08/25/20 5:19
38)	170	0825_01.D	BFB TUNE - CCAL 1	1.0ppb cc - 1.0ppb	08/25/20 5:52
39)	171	0825_02.D	xxxxxxxxxx		08/25/20 6:26
40)	172	0825_03.D	CG61560 LCS	CG61560 LCS	08/25/20 7:03
41)	173	0825_04.D	CG61560 LCSD	CG61560 LCSD	08/25/20 7:40
42)	174	0825_05.D	xxxxxxxxxx		08/25/20 8:11
43)	175	0825_06.D	CG61560 BLANK	CG61560 BLANK	08/25/20 8:43
44)	176	0825_07.D	xxxxxxxxxx		08/25/20 9:20
45)	177	0825_08.D	xxxxxxxxxx		08/25/20 9:56
46)	178	0825_09.D	xxxxxxxxxx		08/25/20 10:33
47)	179	0825_10.D	xxxxxxxxxx		08/25/20 11:10
48)	180	0825_11.D	xxxxxxxxxx		08/25/20 11:47
49)	181	0825_12.D	xxxxxxxxxx		08/25/20 12:24
50)	182	0825_13.D	xxxxxxxxxx		08/25/20 13:01
51)	183	0825_14.D	xxxxxxxxxx		08/25/20 13:38
52)	184	0825_15.D	xxxxxxxxxx		08/25/20 14:15
53)	185	0825_16.D	xxxxxxxxxx		08/25/20 15:37
54)	186	0825_17.D	xxxxxxxxxx		08/25/20 16:15
55)	187	0825_18.D	xxxxxxxxxx		08/25/20 16:53
56)	188	0825_19.D	xxxxxxxxxx		08/25/20 17:31
57)	189	0825_20.D	xxxxxxxxxx		08/25/20 18:10
58)	190	0825_21.D	xxxxxxxxxx		08/25/20 18:48
59)	191	0825_22.D	xxxxxxxxxx		08/25/20 19:27
60)	192	0825_23.D	xxxxxxxxxx		08/25/20 20:31
61)	193	0825_24.D	IA-4 (COLUMN E6)	CG61553	08/25/20 21:14
62)	194	0825_25.D	IA-1 (NW AREA 310)	CG61554	08/25/20 21:59
63)	195	0825_26.D	IA-8 (COLUMN G19)	CG61555	08/25/20 22:44
64)	196	0825_27.D	IA-11 (COLUMN AB7-320A)	CG61556	08/25/20 23:29
65)	197	0825_28.D	IA-10 (COLUMN US3-320A)	CG61557	08/26/20 0:18
66)	198	0825_29.D	IA-5 (COLUMN E10)	CG61558	08/26/20 1:04
67)	199	0825_30.D	IA-12 (COLUMN AG4-320A)	CG61559	08/26/20 1:50
68)	200	0825_31.D	IA-2 (NW COLUMN Z4)	CG61560	08/26/20 2:30

69)	201	0825_32.D	IA-2 (NW COLUMN Z4) DUP	CG61560 DUP	08/26/20	3:11
70)	203	0825_33.D	xxxxxxxxxx		08/26/20	3:43
71)	204	0825_34.D	xxxxxxxxxx		08/26/20	4:16
72)	205	0825_35.D	xxxxxxxxxx		08/26/20	4:48
73)	206	0826_01.D	BFB TUNE - CCAL 1	1.0ppb cc - 1.0ppb	08/26/20	5:21
74)	206	0826_02.D	xxxxxxxxxx		08/26/20	5:55
75)	207	0826_03.D	CG61561 LCS	CG61561 LCS	08/26/20	6:32
76)	208	0826_04.D	CG61561 LCSD	CG61561 LCSD	08/26/20	9:35
77)	209	0826_05.D	xxxxxxxxxx		08/26/20	10:06
78)	210	0826_06.D	CG61561 BLANK	CG61561 BLANK	08/26/20	10:38
79)	211	0826_07.D	IA-3 (COLUMN G2)	CG61561	08/26/20	11:19
80)	212	0826_08.D	IA-3 (COLUMN G2) DUP	CG61561 DUP	08/26/20	12:00
81)	213	0826_09.D	IA-6 (COLUMN B16)	CG61562	08/26/20	12:41
82)	214	0826_10.D	xxxxxxxxxx		08/26/20	13:22
83)	215	0826_11.D	xxxxxxxxxx		08/26/20	14:03
84)	216	0826_12.D	xxxxxxxxxx		08/26/20	14:43
85)	217	0826_13.D	xxxxxxxxxx		08/26/20	15:20
86)	218	0826_14.D	xxxxxxxxxx		08/26/20	15:57
87)	219	0826_15.D	xxxxxxxxxx		08/26/20	16:30
88)	220	0826_16.D	xxxxxxxxxx		08/26/20	17:07
89)	221	0826_17.D	xxxxxxxxxx		08/26/20	17:44
90)	222	0826_18.D	xxxxxxxxxx		08/26/20	18:20
91)	223	0826_19.D	xxxxxxxxxx		08/26/20	18:57
92)	224	0826_20.D	xxxxxxxxxx		08/26/20	19:34
93)	225	0826_21.D	xxxxxxxxxx		08/26/20	20:11
94)	226	0826_22.D	xxxxxxxxxx		08/26/20	20:48
95)	227	0826_23.D	xxxxxxxxxx		08/26/20	21:25
96)	228	0826_24.D	xxxxxxxxxx		08/26/20	22:02
97)	229	0826_25.D	xxxxxxxxxx		08/26/20	22:39
98)	230	0826_26.D	xxxxxxxxxx		08/26/20	23:16
99)	231	0826_27.D	xxxxxxxxxx		08/26/20	23:49
100)	232	0826_28.D	xxxxxxxxxx		08/27/20	0:21
101)	233	0826_29.D	xxxxxxxxxx		08/27/20	0:54
102)	234	0826_30.D	xxxxxxxxxx		08/27/20	1:27
103)	235	0826_31.D	xxxxxxxxxx		08/27/20	2:01
104)	236	0826_32.D	xxxxxxxxxx		08/27/20	2:37
105)	237	0826_33.D	xxxxxxxxxx		08/27/20	3:14
106)	238	0826_34.D	xxxxxxxxxx		08/27/20	3:46
107)	239	0827_01.D	xxxxxxxxxx		08/27/20	4:19
108)	240	0827_02.D	xxxxxxxxxx		08/27/20	4:53
109)	241	0827_03.D	xxxxxxxxxx		08/27/20	5:30
110)	242	0827_04.D	xxxxxxxxxx		08/27/20	6:01
111)	243	0827_05.D	xxxxxxxxxx		08/27/20	6:32

PHOENIX
Environmental Laboratories, Inc.

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

IPARK0118.28

GCG61563

Ver 2

Data Package Table of Contents

Monday, October 19, 2020

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

Project ID: **IPARK0118.28**
SDG ID: **GCG61563**
Sample ID#s: **CG61563 - CG61565**

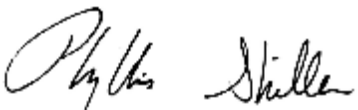
This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. 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,



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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY ANALYTICAL SERVICES PROTOCOL
DATA PACKAGE

Client: Walden Environmental Engineering PLLC

Project: IPARK0118.28

Laboratory Project: GCG61563

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

NY Analytical Services Protocol Format

October 19, 2020 **SDG I.D.: GCG61563**

Walden Environmental Engineering PLLC IPARK0118.28

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 # 11301

NY Analytical Services Protocol Format

October 19, 2020 **SDG I.D.: GCG61563**

Walden Environmental Engineering PLLC IPARK0118.28

Laboratory Chronicle

Sample	Analysis	Collection Date	Prep Date	Analysis Date	Analyst	Hold Time Met
CG61563	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61564	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y
CG61565	Volatiles (TO15)	08/24/20	08/26/20	08/26/20	KCA	Y

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

NY # 11301

SDG Comments

October 19, 2020

SDG I.D.: GCG61563

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

NY # 11301

Sample Id Cross Reference

October 19, 2020

SDG I.D.: GCG61563

Project ID: IPARK0118.28

Client Id	Lab Id	Matrix
IA-9 (COLUMN P10)	CG61563	AIR
IA-07 (COLUMN D24)	CG61564	AIR
AA-01 (NE CORNER 320A)	CG61565	AIR

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 19, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:26
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	13652				

Laboratory Data

SDG ID: GCG61563
Phoenix ID: CG61563

Project ID: IPARK0118.28
Client ID: IA-9 (COLUMN P10)

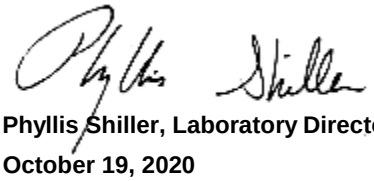
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	6.40	*1.00*	1.00	15.2	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.286	*0.050*	0.050	0.91	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.067	*0.020*	0.020	0.42	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.407	*0.200*	0.200	2.01	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	0.206	*0.150*	0.150	0.89	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.681	*0.150*	0.150	2.96	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	0.283	*0.150*	0.150	1.23	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.489	*0.100*	0.100	3.31	*0.68*	0.68	08/26/20	KCA	1
Toluene	1.25	*0.200*	0.200	4.71	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	11.3	*0.150*	0.150	63.4	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	99	*%*	%	99	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	112	*%*	%	112	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	113	*%*	%	113	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	111	%	%	111	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 19, 2020
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

NY # 11301

Analysis Report

October 19, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:02
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	23348				

Laboratory Data

SDG ID: GCG61563
Phoenix ID: CG61564

Project ID: IPARK0118.28
Client ID: IA-07 (COLUMN D24)

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	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	6.37	*1.00*	1.00	15.1	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.188	*0.050*	0.050	0.60	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.068	*0.020*	0.020	0.43	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.510	*0.200*	0.200	2.52	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.391	*0.150*	0.150	1.70	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	0.237	*0.150*	0.150	1.03	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.491	*0.100*	0.100	3.33	*0.68*	0.68	08/26/20	KCA	1
Toluene	0.291	*0.200*	0.200	1.10	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	11.7	*0.150*	0.150	65.7	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	99	*%*	%	99	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	115	*%*	%	115	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	113	*%*	%	113	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	111	%	%	111	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

Phyllis Shiller, Laboratory Director
October 19, 2020
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

October 19, 2020

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

Sample Information		Custody Information		Date	Time
Matrix:	AIR	Collected by:	KW	08/24/20	14:49
Location Code:	WALDENE-IPARK	Received by:	LB	08/25/20	16:26
Rush Request:	24 Hour	Analyzed by:	see "By" below		
P.O.#:	IPARK0118.28				
Canister Id:	12855				

Laboratory Data

SDG ID: GCG61563
Phoenix ID: CG61565

Project ID: IPARK0118.28
Client ID: AA-01 (NE CORNER 320A)

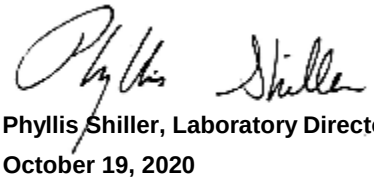
Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	Dilution
Volatiles (TO15)									
1,1,1-Trichloroethane	ND	*0.200*	0.200	ND	*1.09*	1.09	08/26/20	KCA	1
1,1-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
1,2,4-Trichlorobenzene	ND	*0.250*	0.250	ND	*1.85*	1.85	08/26/20	KCA	1
1,2-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,3-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
1,4-Dichlorobenzene	ND	*0.150*	0.150	ND	*0.90*	0.90	08/26/20	KCA	1
Acetone	2.43	*1.00*	1.00	5.77	*2.37*	2.37	08/26/20	KCA	1
Benzene	0.061	*0.050*	0.050	0.19	*0.16*	0.16	08/26/20	KCA	1
Carbon Tetrachloride	0.068	*0.020*	0.020	0.43	*0.13*	0.13	08/26/20	KCA	1
Chlorobenzene	ND	*0.200*	0.200	ND	*0.92*	0.92	08/26/20	KCA	1
Cis-1,2-Dichloroethene	ND	*0.050*	0.050	ND	*0.20*	0.20	08/26/20	KCA	1
Dichlorodifluoromethane	0.334	*0.200*	0.200	1.65	*0.99*	0.99	08/26/20	KCA	1
Ethylbenzene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
m,p-Xylene	0.156	*0.150*	0.150	0.68	*0.65*	0.65	08/26/20	KCA	1
Methylene Chloride	ND	*0.400*	0.400	ND	*1.39*	1.39	08/26/20	KCA	1
o-Xylene	ND	*0.150*	0.150	ND	*0.65*	0.65	08/26/20	KCA	1
Tetrachloroethene	0.112	*0.100*	0.100	0.76	*0.68*	0.68	08/26/20	KCA	1
Toluene	ND	*0.200*	0.200	ND	*0.75*	0.75	08/26/20	KCA	1
Trichloroethene	ND	*0.037*	0.037	ND	*0.20*	0.20	08/26/20	KCA	1
Trichlorofluoromethane	0.218	*0.150*	0.150	1.22	*0.84*	0.84	08/26/20	KCA	1
Trichlorotrifluoroethane	ND	*0.150*	0.150	ND	*1.15*	1.15	08/26/20	KCA	1
Vinyl Chloride	ND	*0.020*	0.020	ND	*0.05*	0.05	08/26/20	KCA	1
QA/QC Surrogates/Internals									
% Bromofluorobenzene	98	*%*	%	98	*%*	%	08/26/20	KCA	1
% IS-1,4-Difluorobenzene	117	*%*	%	117	*%*	%	08/26/20	KCA	1
% IS-Bromochloromethane	117	*%*	%	117	*%*	%	08/26/20	KCA	1

Parameter	ppbv Result	ppbv RL	LOD/ MDL	ug/m3 Result	ug/m3 RL	LOD/ MDL	Date/Time	By	
% IS-Chlorobenzene-d5	114	%	%	114	%	%	08/26/20	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 (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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



Phyllis Shiller, Laboratory Director
October 19, 2020
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

NY # 11301

Canister Sampling Information

October 19, 2020

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

Location Code: WALDENE-IPARK

SDG I.D.: GCG61563

Project ID: IPARK0118.28

						Laboratory					Field			
Client Id	Lab Id	Canister Id	Canister Type	Reg. Id	Chk Out Date	Out Hg	In Hg	Out Flow	In Flow	Flow RPD	Start Hg	End Hg	Sampling Start Date	Sampling End Date
IA-9 (COLUMN P10)	CG61563	13652	6.0L	5398	08/14/20	-30	-8	10.8	10.8	0.0	-30	-8.5	08/24/20 07:42	08/24/20 14:26
IA-07 (COLUMN D24)	CG61564	23348	6.0L	3504	08/14/20	-30	-8	10.8	10.8	0.0	-30	-9	08/24/20 07:32	08/24/20 14:02
AA-01 (NE CORNER 3	CG61565	12855	6.0L	5521	08/14/20	-30	-8	10.8	10.8	0.0	-29	-7	08/24/20 08:09	08/24/20 14:49

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

October 19, 2020

QA/QC Data

SDG I.D.: GCG61563

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 549294 (ppbv), QC Sample No: CG61561 (CG61563, CG61564, CG61565)													
Volatiles													
1,1,1-Trichloroethane	ND	0.200	ND	1.09	104	100	ND	ND	ND	ND	NC	70 - 130	25
1,1-Dichloroethene	ND	0.050	ND	0.20	110	107	ND	ND	ND	ND	NC	70 - 130	25
1,2,4-Trichlorobenzene	ND	0.250	ND	1.85	93	92	ND	ND	ND	ND	NC	70 - 130	25
1,2-Dichlorobenzene	ND	0.150	ND	0.90	107	106	ND	ND	ND	ND	NC	70 - 130	25
1,3-Dichlorobenzene	ND	0.150	ND	0.90	107	105	ND	ND	ND	ND	NC	70 - 130	25
1,4-Dichlorobenzene	ND	0.150	ND	0.90	107	103	ND	ND	ND	ND	NC	70 - 130	25
Acetone	ND	1.00	ND	2.37	93	91	16.5	15.8	6.96	6.65	4.6	70 - 130	25
Benzene	ND	0.050	ND	0.16	101	100	1.35	1.45	0.422	0.454	7.3	70 - 130	25
Carbon Tetrachloride	ND	0.020	ND	0.13	109	104	0.44	0.42	0.070	0.067	NC	70 - 130	25
Chlorobenzene	ND	0.200	ND	0.92	101	102	ND	ND	ND	ND	NC	70 - 130	25
Cis-1,2-Dichloroethene	ND	0.050	ND	0.20	105	102	ND	ND	ND	ND	NC	70 - 130	25
Dichlorodifluoromethane	ND	0.200	ND	0.99	95	79	1.98	1.92	0.401	0.388	NC	70 - 130	25
Ethylbenzene	ND	0.150	ND	0.65	103	101	1.87	1.76	0.431	0.405	NC	70 - 130	25
m,p-Xylene	ND	0.150	ND	0.65	106	105	4.12	3.95	0.949	0.910	4.2	70 - 130	25
Methylene Chloride	ND	0.400	ND	1.39	95	93	ND	ND	ND	ND	NC	70 - 130	25
o-Xylene	ND	0.150	ND	0.65	102	102	1.70	1.62	0.391	0.373	NC	70 - 130	25
Tetrachloroethene	ND	0.100	ND	0.68	103	103	4.20	3.66	0.620	0.540	13.8	70 - 130	25
Toluene	ND	0.200	ND	0.75	99	100	5.24	5.16	1.39	1.37	1.4	70 - 130	25
Trichloroethene	ND	0.037	ND	0.20	101	100	0.20	ND	0.037	ND	NC	70 - 130	25
Trichlorofluoromethane	ND	0.150	ND	0.84	111	109	64.6	62.9	11.5	11.2	2.6	70 - 130	25
Trichlorotrifluoroethane	ND	0.150	ND	1.15	106	105	ND	ND	ND	ND	NC	70 - 130	25
Vinyl Chloride	ND	0.020	ND	0.05	109	110	ND	ND	ND	ND	NC	70 - 130	25
% Bromofluorobenzene	99	%	99	%	102	102	100	98	100	98	NC	70 - 130	25
% IS-1,4-Difluorobenzene	118	%	118	%	107	112	107	113	107	113	NC	60 - 140	25
% IS-Bromochloromethane	115	%	115	%	106	113	108	112	108	112	NC	60 - 140	25
% IS-Chlorobenzene-d5	112	%	112	%	106	112	104	111	104	111	NC	60 - 140	25

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

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

Phyllis Shiller, Laboratory Director
October 19, 2020

Sample Criteria Exceedances Report

GCG61563 - WALDENE-IPARK

Criteria: NY: AIRIA

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
CG61563	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	0.489	0.100	0.443	0.443	ppbv
CG61563	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.067	0.020	0.032	0.032	ppbv
CG61563	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	3.31	0.68	3	3	ug/m3
CG61563	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.42	0.13	0.2	0.2	ug/m3
CG61564	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	0.491	0.100	0.443	0.443	ppbv
CG61564	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.068	0.020	0.032	0.032	ppbv
CG61564	$AIR_WALDEN	Tetrachloroethene	NY / Air Guideline Values / Indor Air	3.33	0.68	3	3	ug/m3
CG61564	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.43	0.13	0.2	0.2	ug/m3
CG61565	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.068	0.020	0.032	0.032	ppbv
CG61565	$AIR_WALDEN	Carbon Tetrachloride	NY / Air Guideline Values / Indor Air	0.43	0.13	0.2	0.2	ug/m3

10/19/2020

Phoenix Environmental Laboratories, Inc.

Page 19 of 143

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

CHAIN OF CUSTODY RECORD
AIR ANALYSES
800-827-5426
email: greg@phoenixlabs.com

WC IP

P.O. # Page of

Data Delivery:
☐ Fax #:
☒ Email: nbrew@walden-associates.com
☐ Phone #: 516 624 7200

Report to: ~~Walden~~ Nora Brew
Customer: Walden Environmental
Address: 16 Spring Street
Oyster Bay, NY 11771

Project Name: iPark0118.28
Invoice to: Cari Manheit - iPark
Sampled by: Kerri Wright Kerri Wright

Data Format: (Circle) Equis Excel Other: PDF
Requested Deliverable:
RCP ASP CAT B
MCP NJ Deliverables
Quote Number:

Phoenix ID #	Client Sample ID	Canister ID #	Canister Size (L)	Outgoing Canister Pressure (" Hg)	Incoming Canister Pressure ("Hg)	Flow Regulator ID #	Flow Controller Setting (mL/min)	Sampling Start Time	Sampling End Time	Sample Start Date	Canister Pressure at Start (" Hg)	Canister Pressure at End ("Hg)	Ambient/Indoor Air	Soil Gas	Grab (G) Composite (C)	TO-15	APH
		THIS SECTION FOR LAB USE ONLY											MATRIX			ANALYSES	
61563	IA - 01 (column P10)	13652	6.0	-30	-8	5398	10.0	7:42	14:26	8/24/20	-30	-8.5	X		G	X	
61564	IA - 07 (column D24)	23348	↓	↓	-8	3564	↓	7:32	14:02	8/24/20	-30	-9	X		G	X	
61565	AA - 01 (NE corner - 320A)	12855	↓	↓	-8	5521	↓	8:09	14:41	8/24/20	-29	-7	X		G	X	
		13639	↓	↓		5673	↓										
	6L 8HR																
	IND CANS IND REGS																

Relinquished by:	Accepted by:	Date:	Time:
Kerri Wright		8/25/20	11:20
		8/25	1626

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

Signature: _____ Date: _____

State Where Samples Collected: New York

Turnaround Time:
1 Day ☒
2 Day ☐
3 Day ☐
4 Day ☐
5 Day ☐

Requested Criteria: (Please Circle)

CT:	MA:	NJ:	NY:	PA:	VT:
TAC I/C	Indoor Air:	Indoor Air:	Vapor Intrusion	Indoor Air	Indoor Air
TAC RES	Residential	Residential		Residential	Residential
SVVC I/C	Ind/Commercial	Ind/Commercial		Non-residential	Industrial
SVVC RES	Soil Gas:	Soil Gas:			Sub-slab
GWV I/C	Residential	Residential			Residential
GWV CES	Ind/Commercial	Ind/Commercial			Industrial

SPECIAL INSTRUCTIONS, QC REQUIREMENTS, REGULATORY INFORMATION:
TO-15 "special code list" See Bobbi/Greg
Modified TO-15 analysis per Project QAPP

PEL-115 Rev. 9/2019

Client Services

From: Nora Brew <nbrew@walden-associates.com>
Sent: Tuesday, August 25, 2020 8:40 PM
To: Client Services
Cc: kawright@walden-associates.com; Michael Lapman
Subject: Re: Phoenix Labs - GCG61563, IPARK0118.28 - COC Acknowledgement

Thank you. Please note that the sample ID listed as IA-0 should be IA-9.

> On 08/25/2020 8:18 PM clientservices@phoenixlabs.com wrote:
>
> This is an automated sample acknowledgement.
>
> If you were issued a Phoenix Price Quote # for this SDG and it was not listed on the chain, please email client services with the quote number so we can ensure proper invoicing. If no quote was issued, no further action is required.
>
> Purchase Order#:IPARK0118.28
>
> GCG61563 Criteria:
> AIR(3): NY AIRIA (Air Soil Vapor (IA))
>
> Please email client services only if you require criteria different than what is listed.
>
> Delivery group GCG61563 (IPARK0118.28) has been logged in for the following samples:

Phoenix Id	Client Id
CG61563	IA-0 (COLUMNP10)
CG61564	IA-7 (COLUMN D24)
CG61565	AA-01 (NE CORNER 320A)

> If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.
>
> Thank you for your business,
>
> Phoenix Environmental Laboratories, Inc.
> 587 East Middle Turnpike
> P.O. Box 370
> Manchester, CT 06374
> Tel. (860) 645-1102
> Fax. (860) 645-0823

www.phoenixlabs.com

Please do not reply to this email.
cc'd:michael@phoenixlabs.com;nbrew@walden-associates.com;greg@phoenixlabs.com;rashmi@phoenixlabs.com

Nora M. Brew, P.E.

Senior Project Manager

Walden Environmental Engineering

16 Spring Street, Oyster Bay, New York 11771 **(HQ)**
Office: (516) 624-7200, Fax: (516) 624-3219

www.WaldenEnvironmentalEngineering.com

Additional Locations

Capital District * Hudson Valley

Providing environmental consulting, civil/environmental engineering, and Geographic Information Systems services since 1995.

Walden continues to grow through referrals from clients and friends like you

PHOENIX
Environmental Laboratories, Inc.

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

IPARK0118.28

Laboratory Project: GCG61563

Volatile TO15
Ver 2

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 indentification 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.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCG61563

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: IPARK0118.28, 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: CG61561 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG61561 LCS
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM24 0826_06.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM24 0821_09.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0826_01.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM24 08/21/20 - 08/21/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 08/21/20 - 08/21/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM24 0826_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCG61563

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: IPARK0118.28, Walden Environmental Engineering PLLC

File: CHEM24 - 24AIR_0821_wal.M / 0826_01.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / 0826_01.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / Average Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / Average Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

10/14/20

Alejandro Paredes
Project Manager

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCG61563

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: IPARK0118.28, 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: CG61561 LCS
All LCS recoveries met criteria with the following exceptions: None.

Sample: CG61561 LCS
All LCS recoveries met criteria with the following exceptions: None.

Form 4 (Method Blank):

File: CHEM24 0826_06.D
All compounds were non-detect with the following exceptions: None.

Form 5 (Tune):

File: CHEM24 0821_09.D
All Tune criteria was met with the following exceptions: None.

File: CHEM24 0826_01.D
All Tune criteria was met with the following exceptions: None.

Form 6 (Initial Calibration):

Calibration: CHEM24 08/21/20 - 08/21/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Calibration: CHEM24 08/21/20 - 08/21/20
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 7 (Continuing Calibration):

File: CHEM24 0826_01.D (Opening)
100% of method compounds met criteria.
The following compounds did not meet maximum % deviations: None.

Form 8 (Internal Standard and Retention Time):

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG: GCG61563

Volatile Air Conformance / Non-Conformance Summary

Project ID / Client ID: IPARK0118.28, Walden Environmental Engineering PLLC

File: CHEM24 - 24AIR_0821_wal.M / 0826_01.D Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / 0826_01.D Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / Average Full
All samples met internal standard area and retention time critieria with the following exceptions: None.

File: CHEM24 - 24AIR_0821_wal.M / Average Sim
All samples met internal standard area and retention time critieria with the following exceptions: None.

10/14/20

Alejandro Paredes
Project Manager

2C
AIR SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SDG: GCG61563

QC Batch Id: 549294 QC Sample Id: CG61561

	CLIENT ID	LAB ID	SMC1 BFB #				TOT OUT
01	CG61561 LCS	CG61561 LCS	102				0
02	CG61561 LCSD	CG61561 LCSD	102				0
03	CG61561 BLANK	CG61561 BLANK	99				0
04	CG61561 QC	CG61561 QC	100				0
05	61561 360cc dup	CG61561 DUP	98				0
06	IA-9 (COLUMN P10)	CG61563	99				0
07	IA-07 (COLUMN D24)	CG61564	99				0
08	AA-01 (NE CORNER 320A)	CG61565	98				0
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							

			QC LIMITS
SMC1	BFB	Bromofluorobenzene	(70-130)

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

FORM II AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCG61563

LCS - Client Id: CG61561 LCS

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		9.451	95	70	130
Vinyl Chloride	10		10.94	109	70	130
Acetone	10		9.269	93	70	130
Trichlorofluoromethane	10		11.15	112	70	130
1,1-Dichloroethene	10		11.02	110	70	130
Methylene Chloride	10		9.489	95	70	130
Trichlorotrifluoroethane	10		10.56	106	70	130
Cis-1,2-Dichloroethene	10		10.49	105	70	130
1,1,1-Trichloroethane	10		10.38	104	70	130
Benzene	10		10.12	101	70	130
Carbon Tetrachloride	10		10.88	109	70	130
Trichloroethene	10		10.10	101	70	130
Toluene	10		9.942	99	70	130
Tetrachloroethene	10		10.31	103	70	130
Chlorobenzene	10		10.12	101	70	130
Ethylbenzene	10		10.33	103	70	130
m,p-Xylene	20		21.24	106	70	130
o-Xylene	10		10.23	102	70	130
1,3-Dichlorobenzene	10		10.74	107	70	130
1,4-Dichlorobenzene	10		10.70	107	70	130
1,2-Dichlorobenzene	10		10.67	107	70	130
1,2,4-Trichlorobenzene	10		9.303	93	70	130

FORM III AIR

AIR LCS RECOVERY

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No: SAS No: SDG No GCG61563

LCS - Client Id: CG61561 LCSD

COMPOUND	SPIKE ADDED (ppbv)		LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.	
Dichlorodifluoromethane	10		7.878	79	70	130
Vinyl Chloride	10		11.04	110	70	130
Acetone	10		9.108	91	70	130
Trichlorofluoromethane	10		10.88	109	70	130
1,1-Dichloroethene	10		10.67	107	70	130
Methylene Chloride	10		9.349	93	70	130
Trichlorotrifluoroethane	10		10.47	105	70	130
Cis-1,2-Dichloroethene	10		10.24	102	70	130
1,1,1-Trichloroethane	10		10.01	100	70	130
Benzene	10		9.997	100	70	130
Carbon Tetrachloride	10		10.37	104	70	130
Trichloroethene	10		9.968	100	70	130
Toluene	10		9.989	100	70	130
Tetrachloroethene	10		10.34	103	70	130
Chlorobenzene	10		10.22	102	70	130
Ethylbenzene	10		10.09	101	70	130
m,p-Xylene	20		20.98	105	70	130
o-Xylene	10		10.15	102	70	130
1,3-Dichlorobenzene	10		10.48	105	70	130
1,4-Dichlorobenzene	10		10.29	103	70	130
1,2-Dichlorobenzene	10		10.59	106	70	130
1,2,4-Trichlorobenzene	10		9.201	92	70	130

FORM III AIR

4A

AIR METHOD BLANK SUMMARY

Client ID: CG61561 BLANK

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61563

Lab File ID: 0826_06.D Lab Sample ID: CG61561 BLK

Date Analyzed: 08/26/2020 Time Analyzed: 10:38

GC Column: RTX-VMS Lab Batch ID: 549294

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	CG61561 LCS	CG61561 LCS	0826_03.D	06:32
02	CG61561 LCSD	CG61561 LCS	0826_04.D	09:35
03	CG61561 QC	CG61561	0826_07.D	11:19
04	61561 360cc dup	CG61561 DUP	0826_08.D	12:00
05	IA-9 (COLUMN P10)	CG61563	0826_10.D	13:22
06	IA-07 (COLUMN D24)	CG61564	0826_11.D	14:03
07	AA-01 (NE CORNER 320A	CG61565	0826_12.D	14:43
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

COMMENTS:

FORM IV AIR

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61563

Lab File ID: 0821_09.D BFB Injection Date: 08/21/20

Instrument ID: CHEM24 BFB Injection Time: 13:12

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	34.9			
75	30.0 - 66.0% of mass 95	47.0			
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	90.4			
175	4.0 - 9.0% of mass 174	8.0	(	7.2	)1
176	93.0 - 101.0% of mass 174	96.9	(	87.6	)1
177	5.0 - 9.0% of mass 176	6.4	(	5.6	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	ICAL 0.02	0.02	0821_10.D	08/21/20	13:44	
02	ICAL 0.035	0.035	0821_11.D	08/21/20	14:16	
03	ICAL 0.05	0.05	0821_12.D	08/21/20	14:49	
04	ICAL 0.1	0.10	0821_13.D	08/21/20	15:22	
05	ICAL 0.5	0.5	0821_14.D	08/21/20	15:59	
06	ICAL 2.5	2.5	0821_15.D	08/21/20	16:36	
07	ICAL 5	5.0	0821_16.D	08/21/20	17:09	
08	ICAL 25	25	0821_17.D	08/21/20	18:42	
09	ICAL 40	40	0821_18.D	08/21/20	19:22	
10	ICAL 1	1.0ppb cc	0821_20.D	08/21/20	20:28	
11	ICAL 10	10ppb cc	0821_21.D	08/21/20	21:53	
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_09.D
Acq On : 21 Aug 2020 1:12 pm
Operator : Keith
Sample : 0/0 (Sig #1); 0.02 (Sig #2)
Misc :
ALS Vial : 7 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020

AutoFind: Scans 1666, 1667, 1668; Background Corrected with Scan 1658

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	34.9	38467	PASS
75	95	30	66	47.0	51808	PASS
95	95	100	100	100.0	110259	PASS
96	95	5	9	6.7	7417	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.4	99648	PASS
175	174	4	9	8.0	7961	PASS
176	174	93	101	96.9	96549	PASS
177	176	5	9	6.4	6163	PASS

24AIR_0821.M Mon Aug 24 09:10:56 2020

5B
AIR INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GCG61563

Lab File ID: 0826_01.D BFB Injection Date: 08/26/20

Instrument ID: CHEM24 BFB Injection Time: 05:21

GC Column: RTX-VMS Heated Purge: (Y/N) Y

AutoFind: Scans 1665, 1666, 1667; Background Corrected with Scan 1658

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE			
50	8.0 - 40.0% of mass 95	36.3			
75	30.0 - 66.0% of mass 95	48.4			
95	Base Peak, 100% relative abundance	100.0			
96	5.0 - 9.0% of mass 95	6.5			
173	Less than 2.0% of mass 174	0.0	(	0.0	)1
174	50.0 - 120.0% of mass 95	87.8			
175	4.0 - 9.0% of mass 174	7.7	(	6.8	)1
176	93.0 - 101.0% of mass 174	97.2	(	85.3	)1
177	5.0 - 9.0% of mass 176	6.5	(	5.6	)1

1-Value is % mass 95

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

	CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED	
01	CCAL 1	1.0ppb cc	0826_01.D	08/26/20	05:21	
02	CG61561 LCS	CG61561 LCS	0826_03.D	08/26/20	06:32	
03	CG61561 LCSD	CG61561 LCSD	0826_04.D	08/26/20	09:35	
04	CG61561 BLANK	CG61561 BLANK	0826_06.D	08/26/20	10:38	
05	CG61561 QC	CG61561 QC	0826_07.D	08/26/20	11:19	
06	61561 360cc dup	CG61561 DUP	0826_08.D	08/26/20	12:00	
07	IA-9 (COLUMN P10)	CG61563	0826_10.D	08/26/20	13:22	
08	IA-07 (COLUMN D24)	CG61564	0826_11.D	08/26/20	14:03	
09	AA-01 (NE CORNER 320A)	CG61565	0826_12.D	08/26/20	14:43	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						

(*) Outside 24 hr clock

FORM V AIR

CLPBFB

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Sample : 1.0ppb cc
Misc :
ALS Vial : 206 Sample Multiplier: 1

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

Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020

AutoFind: Scans 1665, 1666, 1667; Background Corrected with Scan 1658

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	36.3	35440	PASS
75	95	30	66	48.4	47224	PASS
95	95	100	100	100.0	97624	PASS
96	95	5	9	6.5	6374	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	87.8	85728	PASS
175	174	4	9	7.7	6595	PASS
176	174	93	101	97.2	83301	PASS
177	176	5	9	6.5	5428	PASS

24AIR_0821.M Wed Aug 26 08:18:28 2020

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.: GCG61563

Lab Method / File Id: 24AIR_0821_wal.M / Average Date Analyzed: 08/21/20

Instrument ID: CHEM24 Time Analyzed: 20:28

GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg	#	RT Avg	#	IS2 (DFB) Area Avg	#	RT Avg	#	IS3 (CBZ) Area Avg	#	RT Avg	#			LAB FILE ID
	12 HOUR STD	103606		5.41		305935		7.34		138704		10.92				Average
	UPPER LIMIT	145566		5.74		429839		7.67		194879		11.25				Average
	LOWER LIMIT	61645		5.08		182032		7.01		82529		10.59				Average
	CLIENT ID															
01	ICAL 0.5	93235		5.40		281434		7.34		127016		10.91				0821_14.D
02	ICAL 2.5	92880		5.41		275668		7.34		128123		10.91				0821_15.D
03	ICAL 5	91703		5.41		278278		7.34		126820		10.91				0821_16.D
04	ICAL 25	98597		5.41		288204		7.34		132631		10.92				0821_17.D
05	ICAL 40	118862		5.42		326095		7.35		149227		10.92				0821_18.D
06	ICAL 1	117268		5.41		359263		7.34		156114		10.91				0821_20.D
07	ICAL 10	112694		5.41		332606		7.34		150998		10.91				0821_21.D
08																
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.: GCG61563

Lab Method / File Id: 24AIR_0821_wal.M / Average Date Analyzed: 08/21/20

Instrument ID: CHEM24 Time Analyzed: 20:28

GC Column: _____ ID: 0.18 (mm) Heated Purge:(Y/N) Y

		IS1 (BCM) Area Avg	#	RT Avg	#	IS2 (DFB) Area Avg	#	RT Avg	#	IS3 (CBZ) Area Avg	#	RT Avg	#			LAB FILE ID
	12 HOUR STD	108641		5.41		341367		7.34		146029		10.91				Average
	UPPER LIMIT	152641		5.74		479620		7.67		205171		11.24				Average
	LOWER LIMIT	64642		5.08		203113		7.01		86887		10.58				Average
	CLIENT ID															
01	ICAL 0.02	106227		5.41		336290		7.34		142902		10.91				0821_10.D
02	ICAL 0.035	105710		5.41		333687		7.34		142193		10.92				0821_11.D
03	ICAL 0.05	105014		5.41		332172		7.34		139165		10.92				0821_12.D
04	ICAL 0.1	104665		5.41		329453		7.34		140614		10.92				0821_13.D
05	ICAL 0.5	101878		5.41		321739		7.34		138903		10.92				0821_14.D
06	ICAL 2.5	101644		5.41		316521		7.34		137895		10.92				0821_15.D
07	ICAL 5	102068		5.41		318697		7.34		139448		10.92				0821_16.D
08	ICAL 1	127421		5.41		405943		7.34		170232		10.91				0821_20.D
09	ICAL 10	123145		5.41		377797		7.34		162912		10.92				0821_21.D
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
Full Scan

Lab Name: Phoenix Environmental Labs Client: WALDENE-IPARK

Lab Code: Phoenix Case No.: _____ SAS No.: _____ SDG No.: GCG61563

Lab Method / File Id: 24AIR_0821_wal.M / 0826_01.D Date Analyzed: 08/26/20

Instrument ID: CHEM24 Time Analyzed: 5:21

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	86894		5.41		262040		7.34		120042		10.91				0826_01.D
	UPPER LIMIT	122086		5.74		368166		7.67		168659		11.24				0826_01.D
	LOWER LIMIT	51702		5.08		155914		7.01		71425		10.58				0826_01.D
	CLIENT ID															
01	CCAL 1	86894		5.41		262040		7.34		120042		10.91				0826_01.D
02	CG61561 LCS	92271		5.41		279111		7.34		127530		10.91				0826_03.D
03	CG61561 LCSD	98216		5.41		294304		7.34		134634		10.91				0826_04.D
04	CG61561 BLANK	100132		5.41		309471		7.33		133930		10.91				0826_06.D
05	CG61561 QC	93693		5.41		281351		7.34		125426		10.91				0826_07.D
06	61561 360cc dup	97459		5.41		295353		7.34		132983		10.91				0826_08.D
07	IA-9 (COLUMN P10)	98169		5.40		294111		7.33		133754		10.91				0826_10.D
08	IA-07 (COLUMN D24)	98106		5.40		300304		7.34		133504		10.91				0826_11.D
09	AA-01 (NE CORNER 320A)	101417		5.40		306432		7.33		137006		10.91				0826_12.D
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.: GCG61563

Lab Method / File Id: 24AIR_0821_wal.M / 0826_01.D Date Analyzed: 08/26/20

Instrument ID: CHEM24 Time Analyzed: 5:21

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	95039		5.41		262040		7.34		120042		10.91				0826_01.D
	UPPER LIMIT	133530		5.74		368166		7.67		168659		11.24				0826_01.D
	LOWER LIMIT	56548		5.08		155914		7.01		71425		10.58				0826_01.D
	CLIENT ID															
01	CCAL 1	95039		5.41		262040		7.34		120042		10.91				0826_01.D
02	CG61561 LCS	100683		5.41		279111		7.34		127530		10.91				0826_03.D
03	CG61561 LCSD	106431		5.41		294304		7.34		134634		10.91				0826_04.D
04	CG61561 BLANK	110170		5.41		309471		7.33		133930		10.91				0826_06.D
05	CG61561 QC	102967		5.40		281351		7.34		125426		10.91				0826_07.D
06	61561 360cc dup	106507		5.41		295353		7.34		132983		10.91				0826_08.D
07	IA-9 (COLUMN P10)	107054		5.41		294111		7.33		133754		10.91				0826_10.D
08	IA-07 (COLUMN D24)	107278		5.41		300304		7.34		133504		10.91				0826_11.D
09	AA-01 (NE CORNER 320A)	109997		5.41		306432		7.33		137006		10.91				0826_12.D
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

1

AIR ANALYSIS DATA SHEET

CLIENT ID: IA-9 (COLUMN P10)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61563

Canister: 13652 Lab File ID: 0826_10.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.407		0.200	0.200	r
67-64-1	Acetone	6.40	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.3		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.286		0.050	0.050	r
108-88-3	Toluene	1.25		0.200	0.200	r
127-18-4	Tetrachloroethene	0.489		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.206		0.150	0.150	r
179601-23-1	m,p-Xylene	0.681		0.150	0.150	r
95-47-6	o-Xylene	0.283		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.067		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_10.D
Acq On : 26 Aug 2020 1:22 pm
Operator : Keith
Client ID : IA-9 (COLUMN P10)
Lab ID : CG61563
ALS Vial : 214 Sample Multiplier: 1

Quant Time: Oct 13 15:44:44 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

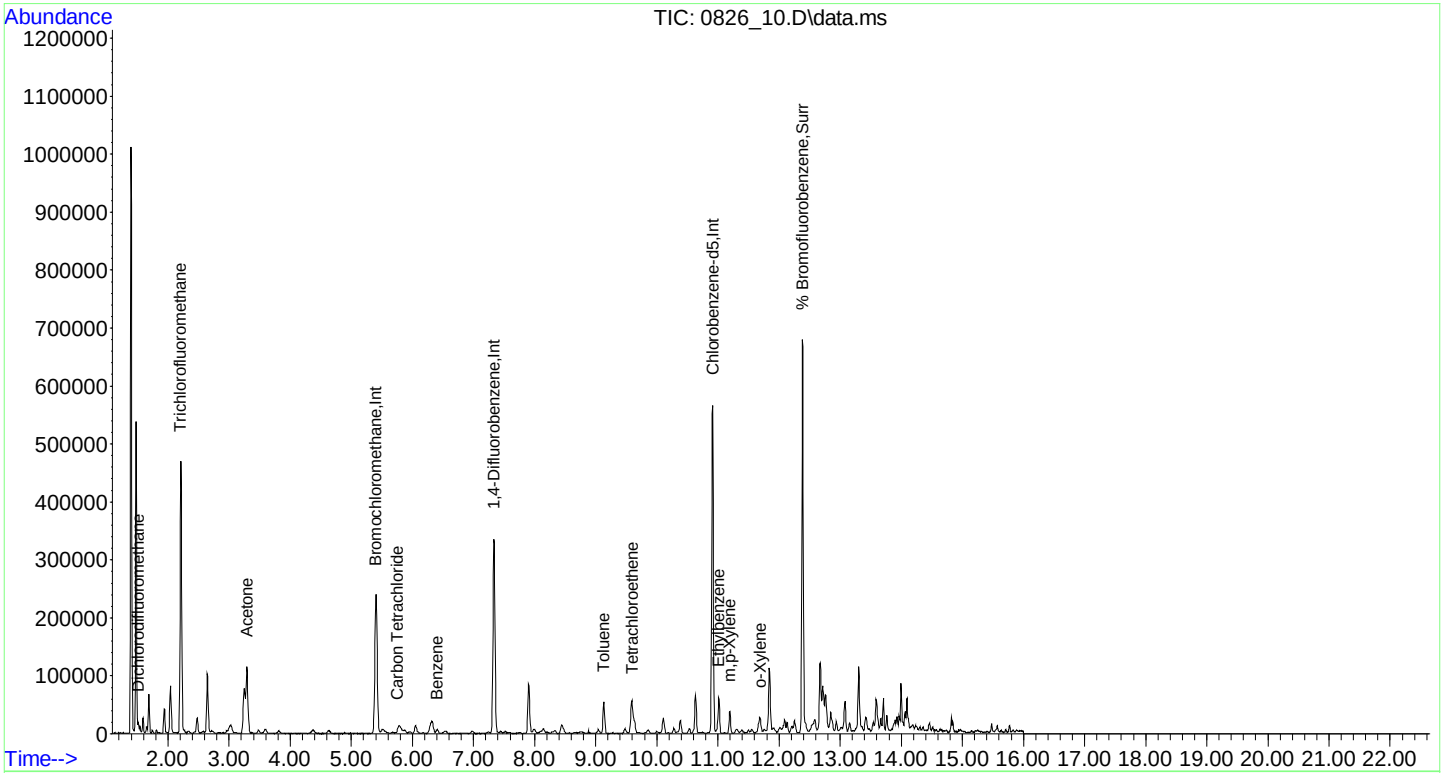
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	98169	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.333	114	294111	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	133754	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	107054	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.333	114	294111	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	133754	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.383	95	207007	9.924	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	7220	0.407	ppbv		98
4) Acetone	3.292	43	184995	6.399	ppbv		92
5) Trichlorofluoromethane	2.211	101	335278	11.279	ppbv		100
13) Benzene	6.409	78	5364	0.286	ppbv		90
14) Carbon Tetrachloride	5.756	117	2083	0.073	ppbv		93
18) Toluene	9.131	91	34404	1.246	ppbv		99
19) Tetrachloroethene	9.600	166	8382	0.489	ppbv		96
22) Ethylbenzene	11.011	91	7949	0.206	ppbv		97
23) m,p-Xylene	11.196	91	19990	0.681	ppbv		98
24) o-Xylene	11.690	91	9039	0.283	ppbv		96
34] Carbon Tetrachloride(sim)	5.759	117	2261	0.067	ppbv		98
46] Tetrachloroethene(sim)	9.603	166	9167	0.593	ppbv		98
48] m,p-Xylene(sim)	11.192	91	21978	0.763	ppbv		100

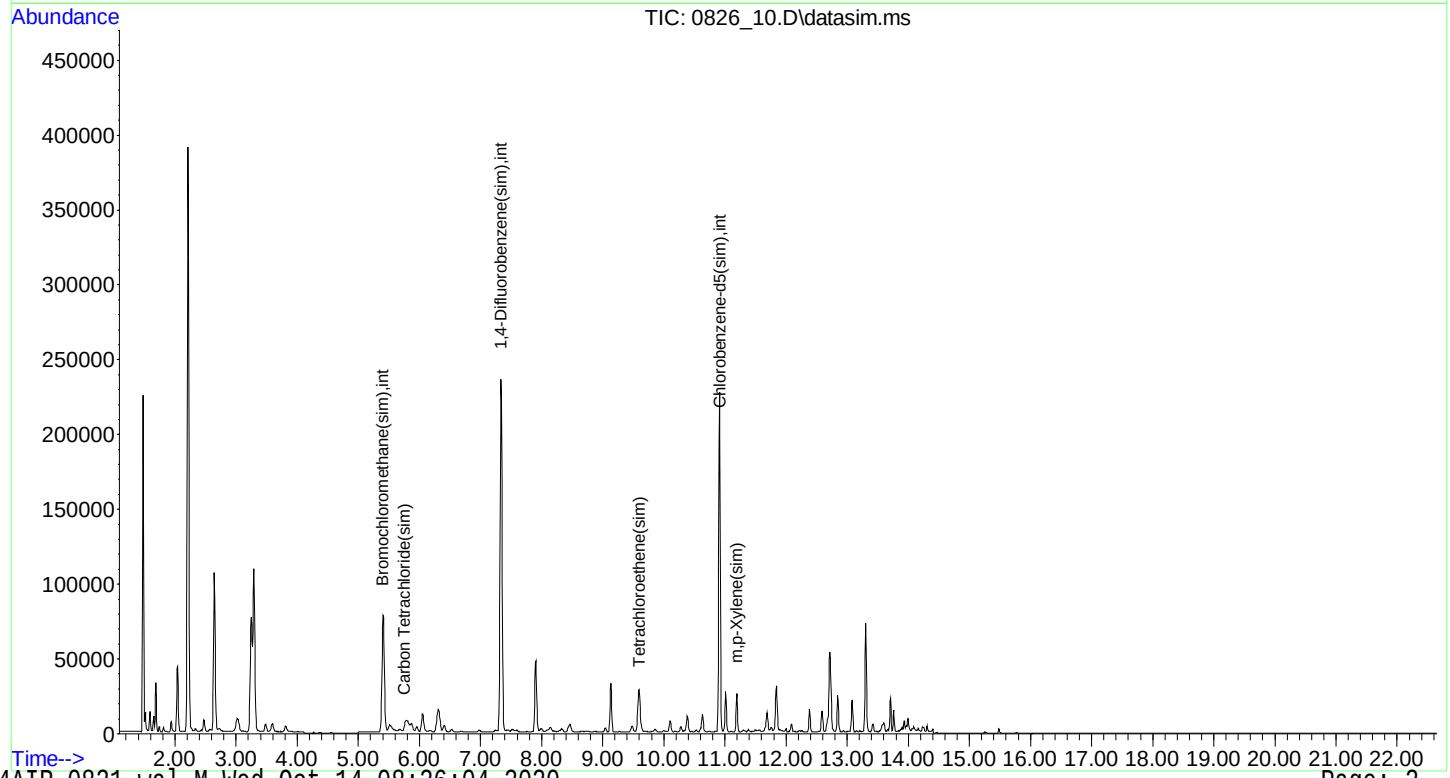
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

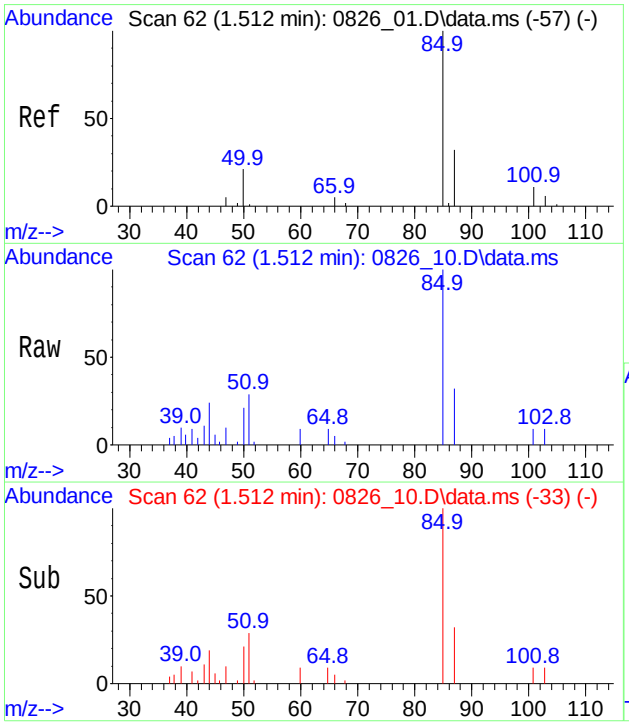
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_10.D
Acq On : 26 Aug 2020 1:22 pm
Operator : Keith
Client ID : IA-9 (COLUMN P10)
Lab ID : CG61563
ALS Vial : 214 Sample Multiplier: 1

Quant Time: Oct 13 15:44:44 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



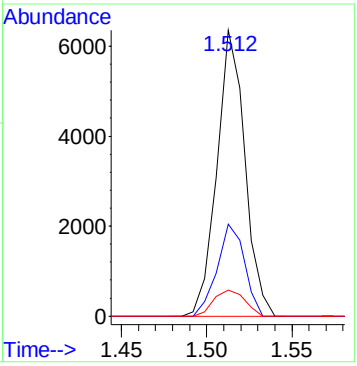


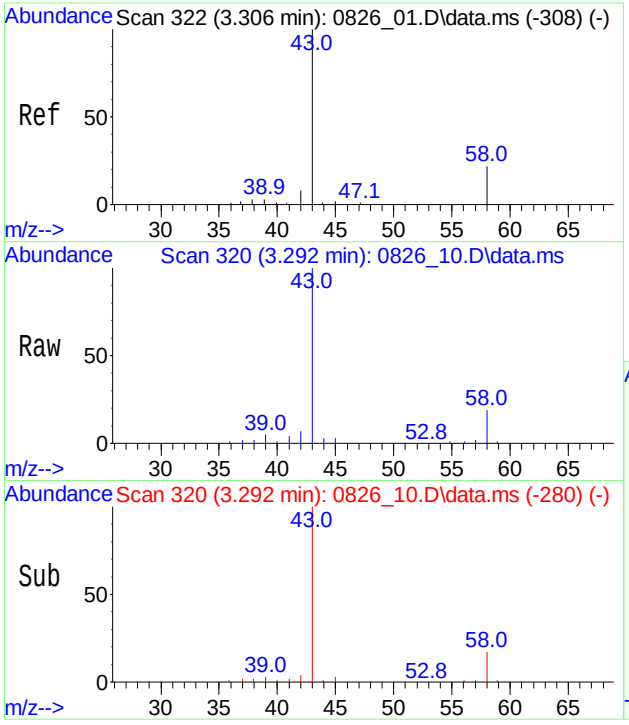


#2
Dichlorodifluoromethane
Conc: 8$ 0.407 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 85 Resp: 7220

Ion	Ratio	Lower	Upper
85	100		
87	31.5	26.1	39.1
101	10.1	8.4	12.6

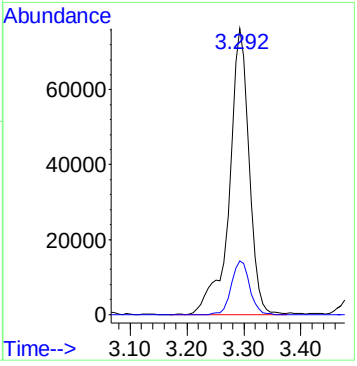


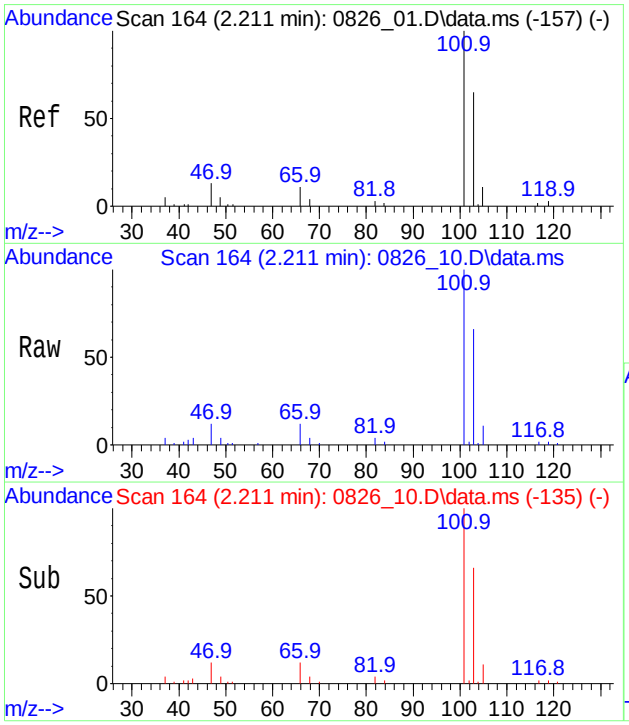


#4
Acetone
Conc: 8$ 6.399 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 43 Resp: 184995

Ion	Ratio	Lower	Upper
43	100		
58	17.1	16.7	25.1

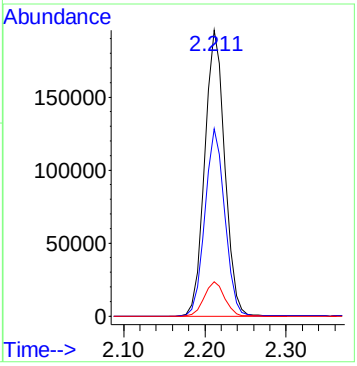


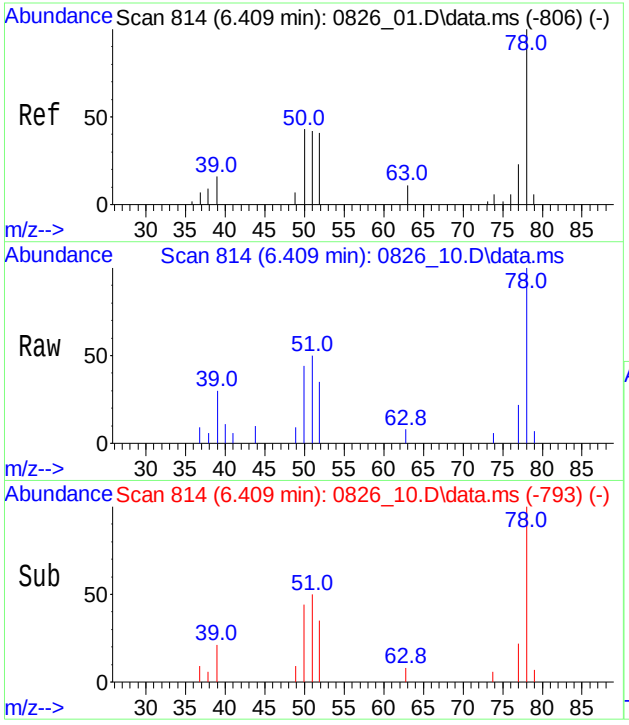


#5
Trichlorofluoromethane
Conc: 8$ 11.279 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion:101 Resp: 335278

Ion	Ratio	Lower	Upper
101	100		
103	64.8	52.1	78.1
66	12.2	9.8	14.6

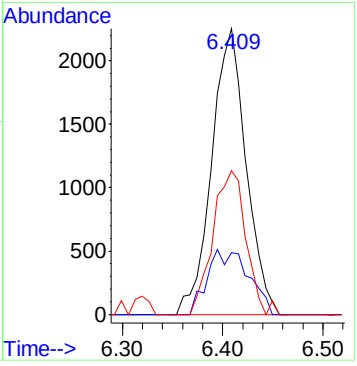


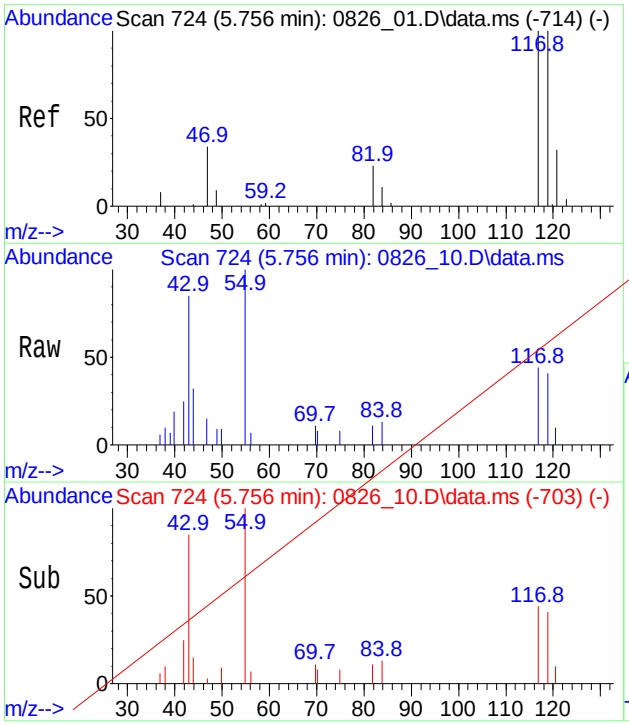


#13
Benzene
Conc: 8$ 0.286 ppbv
RT: 6.409 min Scan# 814
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 78 Resp: 5364

Ion	Ratio	Lower	Upper
78	100		
77	27.1	19.0	28.6
51	48.3	33.0	49.6

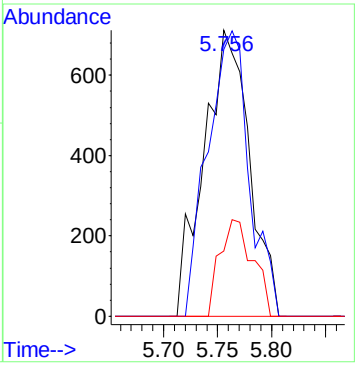


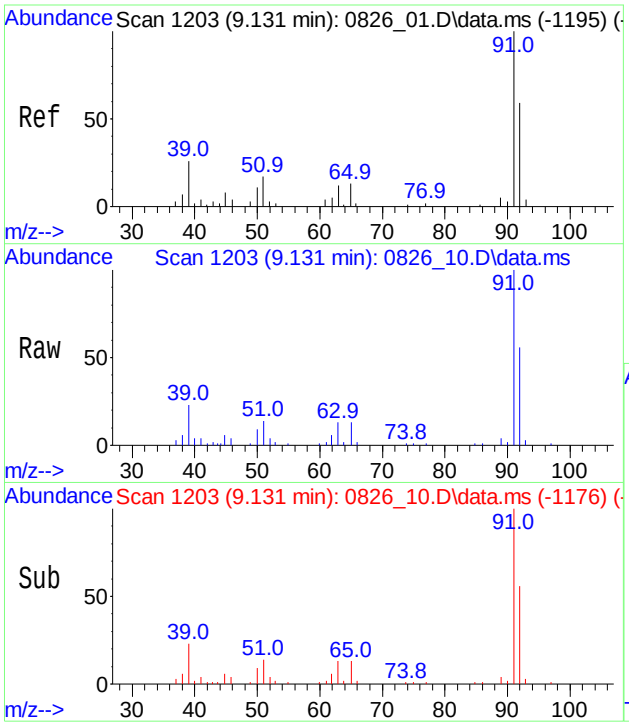


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.756 min Scan# 724
Delta R.T. 0.002 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion:117 Resp: 2083

Ion	Ratio	Lower	Upper
117	100		
119	91.5	76.4	116.4
121	24.4	11.9	51.9

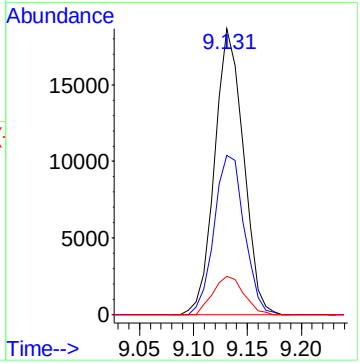


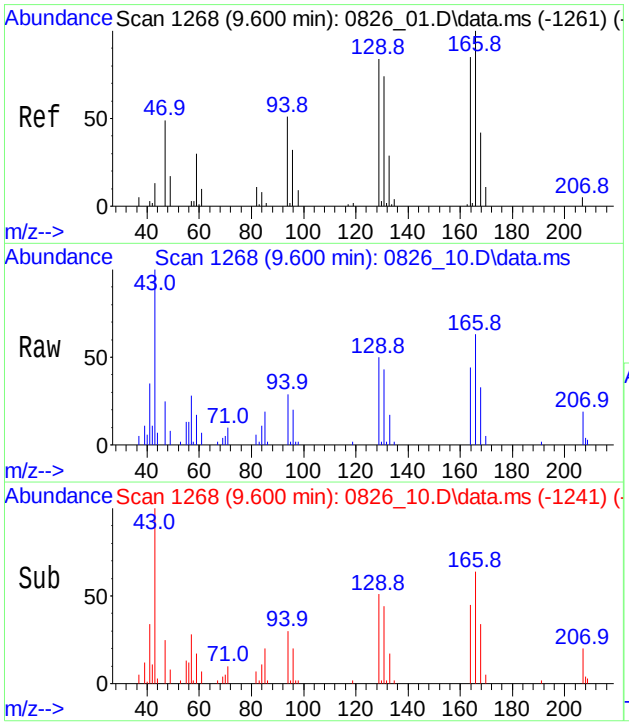


#18
Toluene
Conc: 8$ 1.246 ppbv
RT: 9.131 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 91 Resp: 34404

Ion	Ratio	Lower	Upper
91	100		
92	58.5	46.2	69.2
65	14.3	11.0	16.6

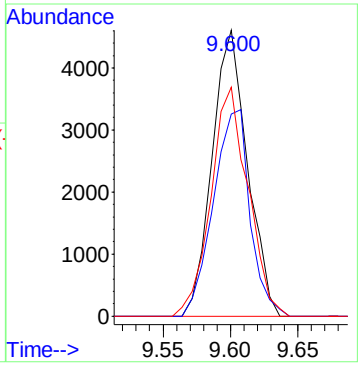


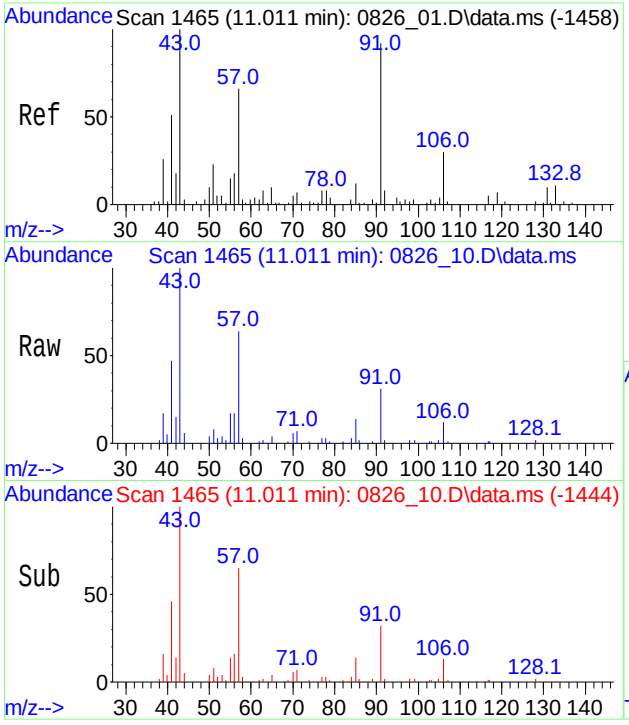


#19
Tetrachloroethene
Conc: 8$ 0.489 ppbv
RT: 9.600 min Scan# 1268
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion:166 Resp: 8382

Ion	Ratio	Lower	Upper
166	100		
164	74.7	62.4	93.6
129	84.2	69.8	104.8

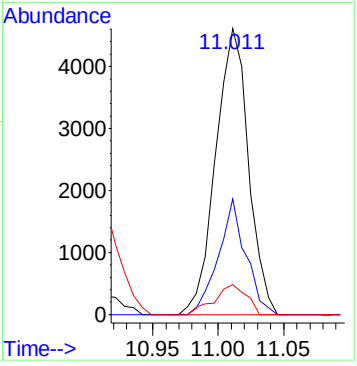


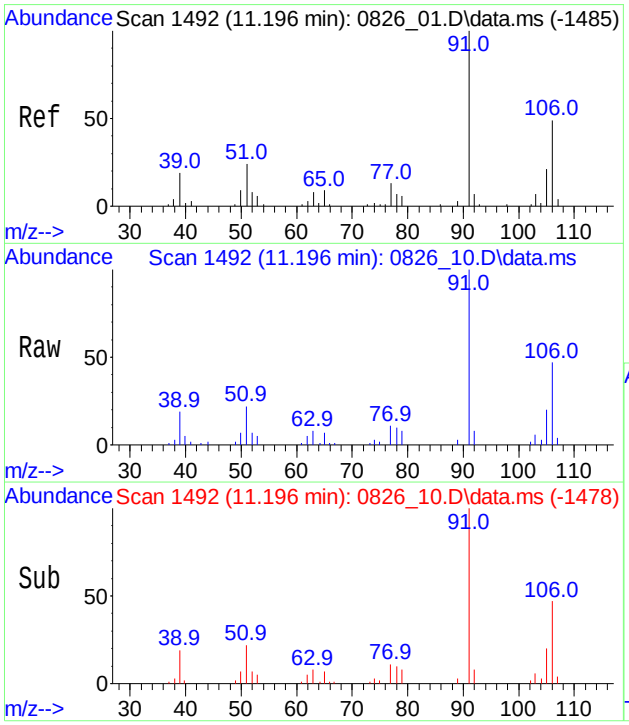


#22
Ethylbenzene
Conc: 8$ 0.206 ppbv
RT: 11.011 min Scan# 1465
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 91 Resp: 7949

Ion	Ratio	Lower	Upper
91	100		
106	33.8	12.2	52.2
77	10.3	0.0	28.6

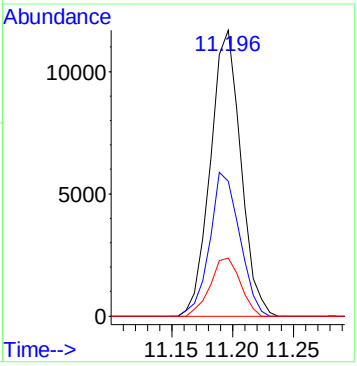


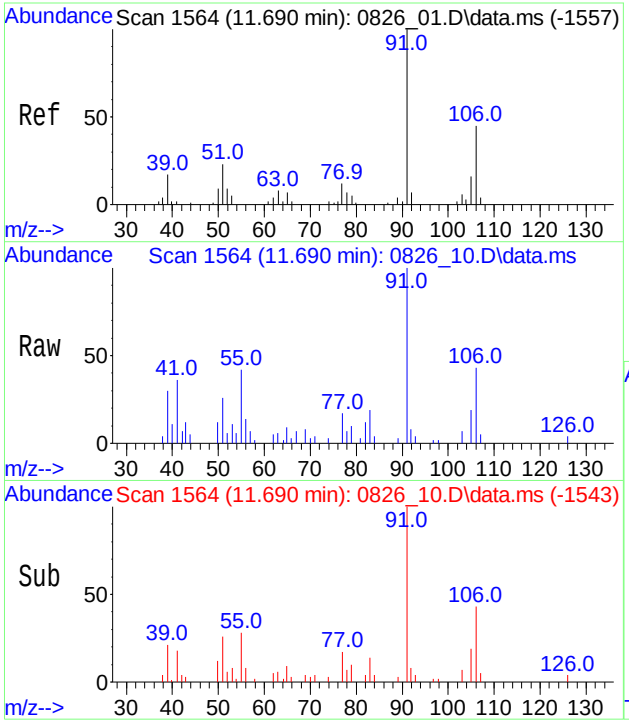


#23
m,p-Xylene
Conc: 8$ 0.681 ppbv
RT: 11.196 min Scan# 1492
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 91 Resp: 19990

Ion	Ratio	Lower	Upper
91	100		
106	49.6	39.3	58.9
105	20.2	17.8	26.6

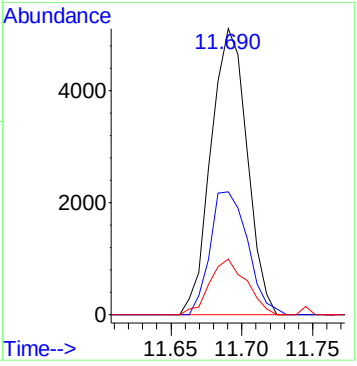


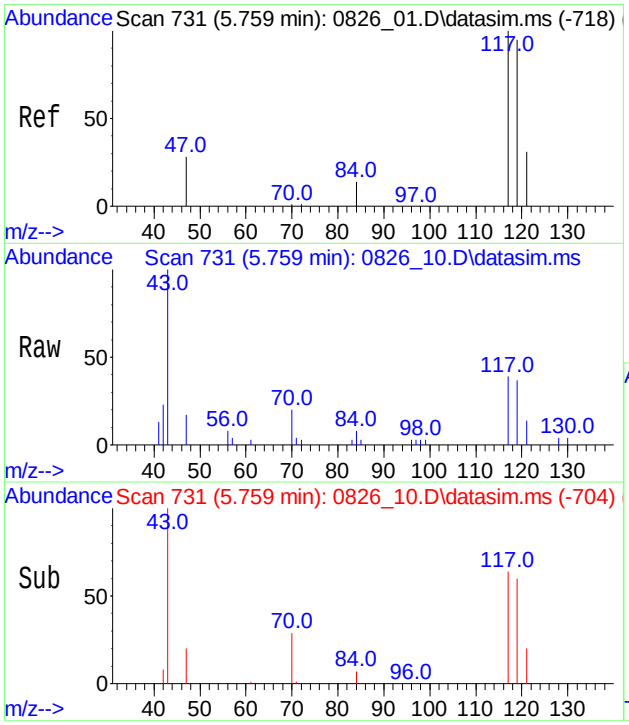


#24
o-Xylene
Conc: 8$ 0.283 ppbv
RT: 11.690 min Scan# 1564
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 91 Resp: 9039

Ion	Ratio	Lower	Upper
91	100		
106	44.5	38.0	57.0
105	19.6	15.0	22.6

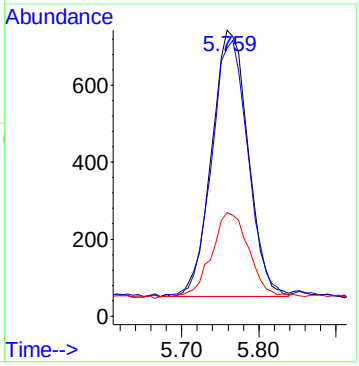


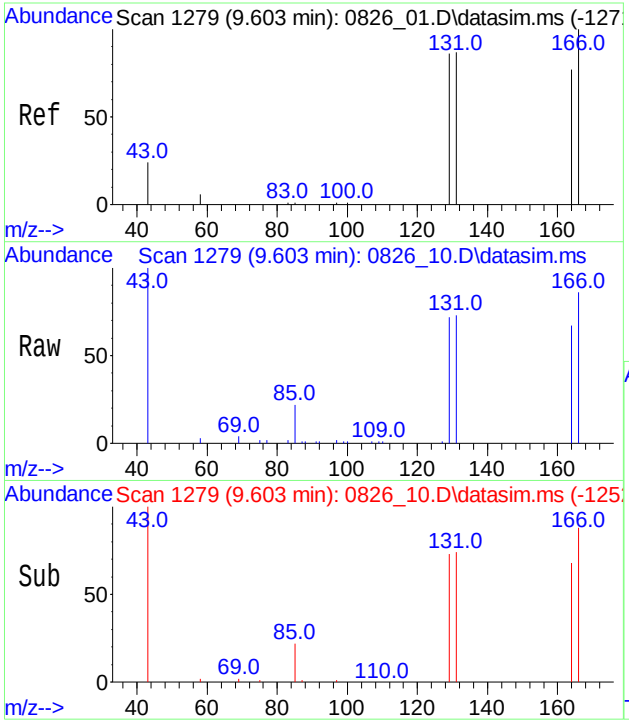


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.067 ppbv
RT: 5.759 min Scan# 731
Delta R.T. -0.005 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion:117 Resp: 2261

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.7	115.1
121	34.1	25.4	38.0

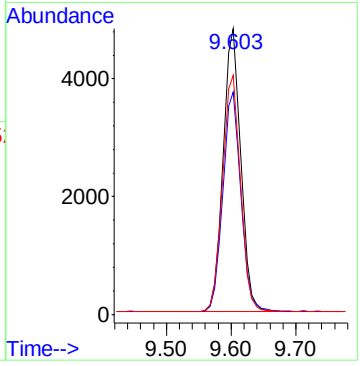


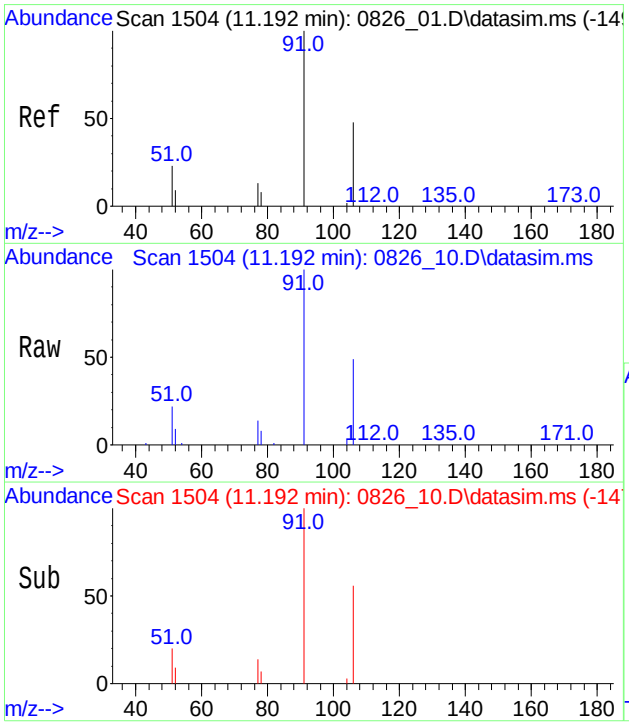


#46
Tetrachloroethene(sim)
Conc: 8$ 0.593 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion:166 Resp: 9167

Ion	Ratio	Lower	Upper
166	100		
164	79.2	58.0	98.0
129	84.7	67.3	107.3

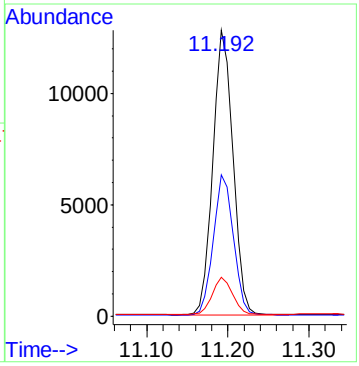




#48
m,p-Xylene(sim)
Conc: 8$ 0.763 ppbv
RT: 11.192 min Scan# 1504
Delta R.T. -0.009 min
Lab File: 0826_10.D
Acq: 26 Aug 2020 1:22 pm

Tgt Ion: 91 Resp: 21978

Ion	Ratio	Lower	Upper
91	100		
106	49.2	44.2	54.0
77	13.2	10.2	15.2



1

CLIENT ID

AIR ANALYSIS DATA SHEET

IA-07 (COLUMN D24)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61564

Canister: 23348 Lab File ID: 0826_11.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.510		0.200	0.200	r
67-64-1	Acetone	6.37	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.7		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.188		0.050	0.050	r
108-88-3	Toluene	0.291		0.200	0.200	r
127-18-4	Tetrachloroethene	0.491		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
179601-23-1	m,p-Xylene	0.391		0.150	0.150	r
95-47-6	o-Xylene	0.237		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.068		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_11.D
Acq On : 26 Aug 2020 2:03 pm
Operator : Keith
Client ID : IA-07 (COLUMN D24)
Lab ID : CG61564
ALS Vial : 215 Sample Multiplier: 1

Quant Time: Oct 13 15:44:47 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

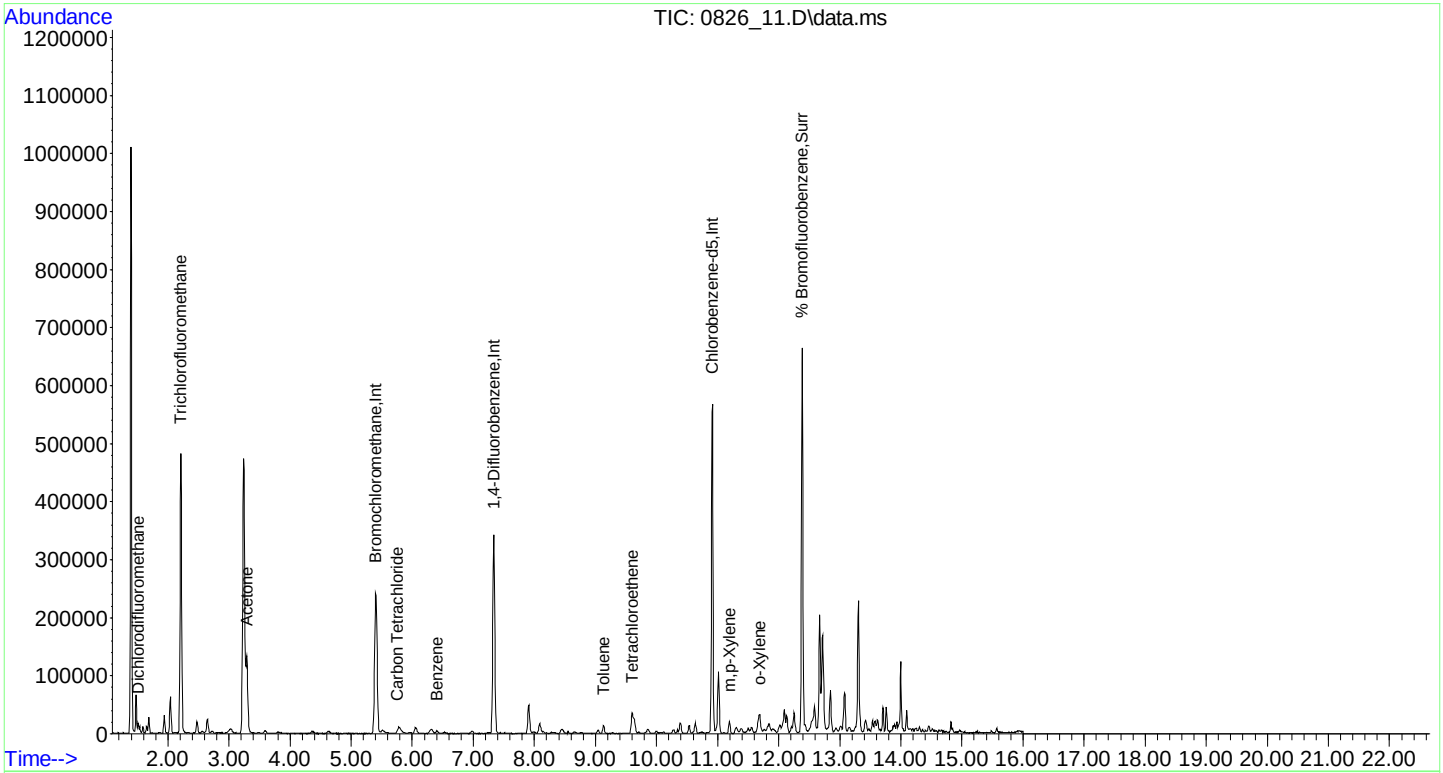
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	98106	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	300304	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	133504	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	107278	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	300304	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	133504	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.383	95	205111	9.852	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	9031	0.510	ppbv		92
4) Acetone	3.292	43	184126	6.373	ppbv		99
5) Trichlorofluoromethane	2.211	101	347537	11.699	ppbv		99
13) Benzene	6.409	78	3529	0.188	ppbv		95
14) Carbon Tetrachloride	5.756	117	2059	0.072	ppbv#		76
17) Trichloroethene	7.271	130	530	0.036	ppbv#		66
18) Toluene	9.131	91	8200	0.291	ppbv		99
19) Tetrachloroethene	9.600	166	8589	0.491	ppbv		97
23) m,p-Xylene	11.196	91	11461	0.391	ppbv		97
24) o-Xylene	11.690	91	7553	0.237	ppbv		98
34] Carbon Tetrachloride(sim)	5.766	117	2303	0.068	ppbv		98
46] Tetrachloroethene(sim)	9.603	166	9772	0.619	ppbv		98
48] m,p-Xylene(sim)	11.192	91	12367	0.430	ppbv		98

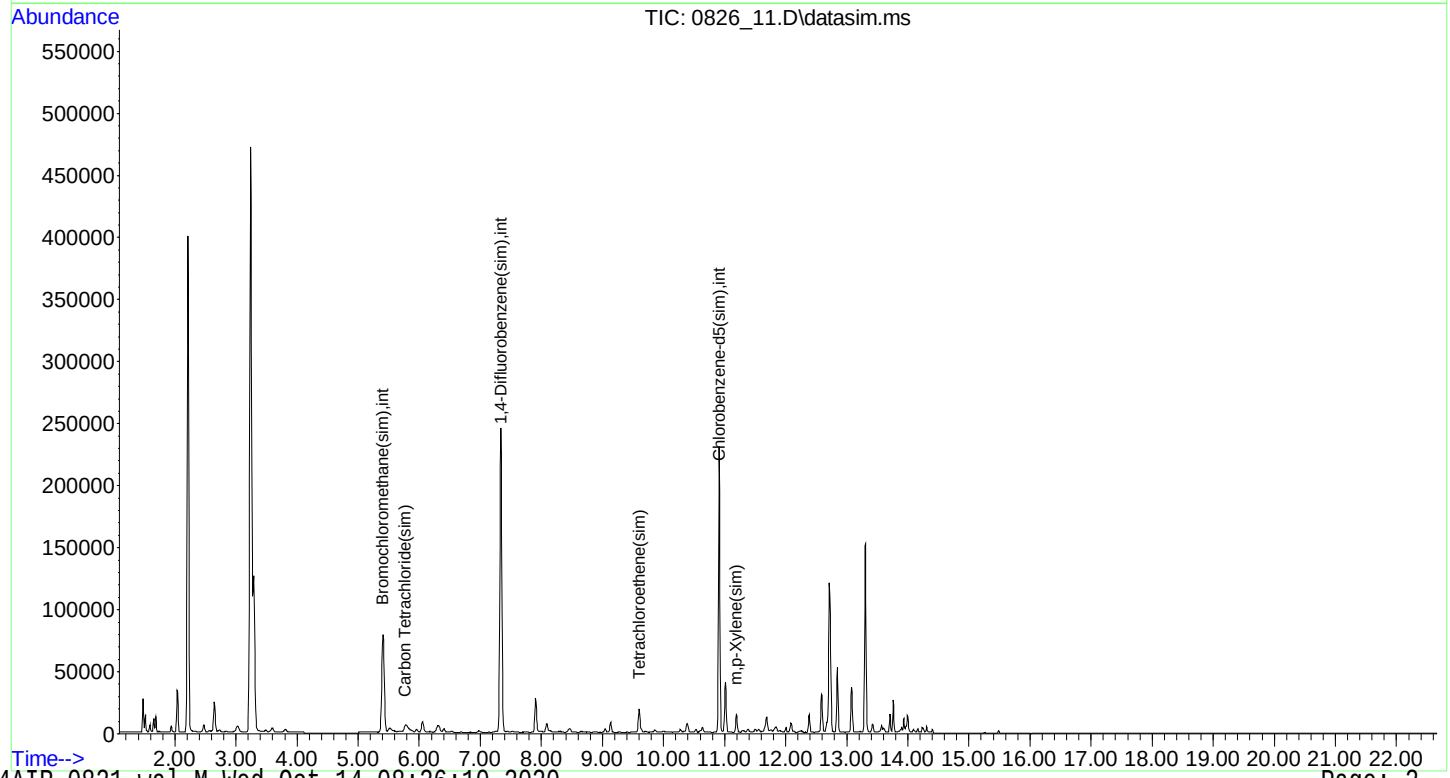
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

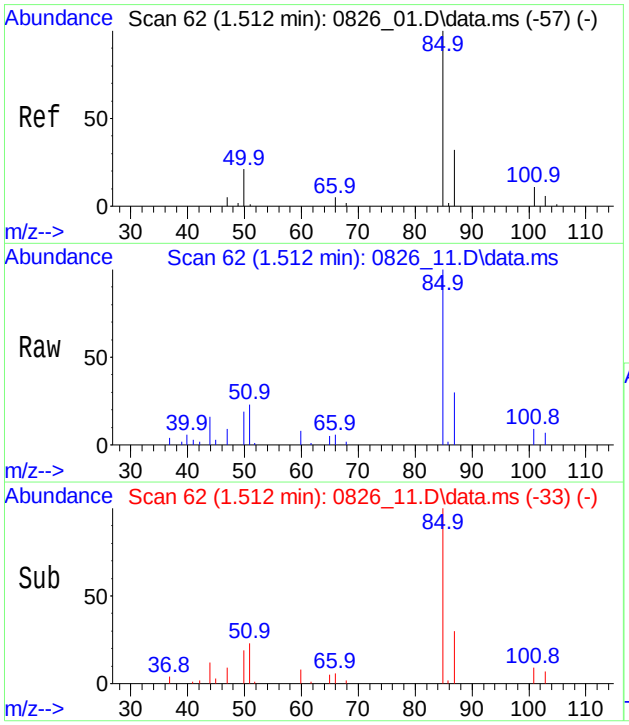
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_11.D
Acq On : 26 Aug 2020 2:03 pm
Operator : Keith
Client ID : IA-07 (COLUMN D24)
Lab ID : CG61564
ALS Vial : 215 Sample Multiplier: 1

Quant Time: Oct 13 15:44:47 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



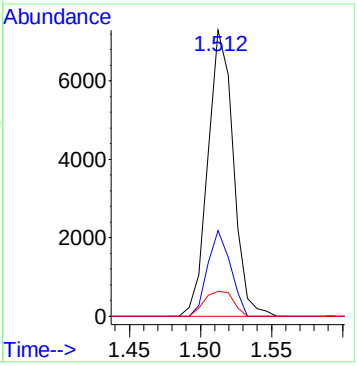


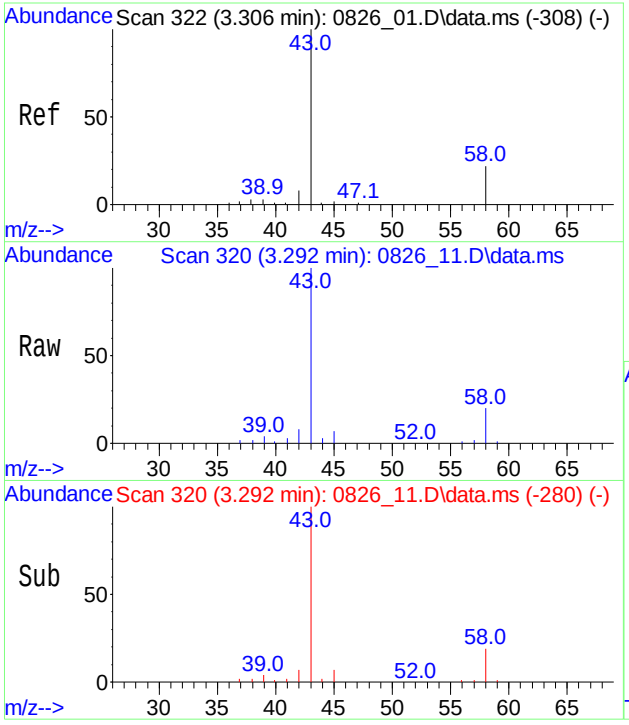


#2
Dichlorodifluoromethane
Conc: 8$ 0.510 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 85 Resp: 9031

Ion	Ratio	Lower	Upper
85	100		
87	27.0	26.1	39.1
101	10.0	8.4	12.6

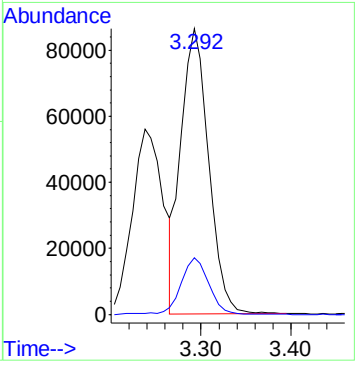


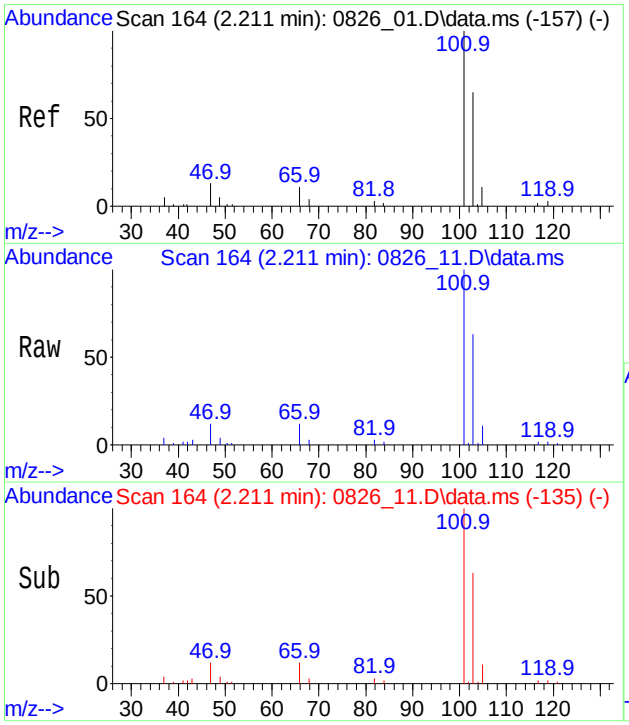


#4
Acetone
Conc: 8$ 6.373 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 43 Resp: 184126

Ion	Ratio	Lower	Upper
43	100		
58	20.3	16.7	25.1

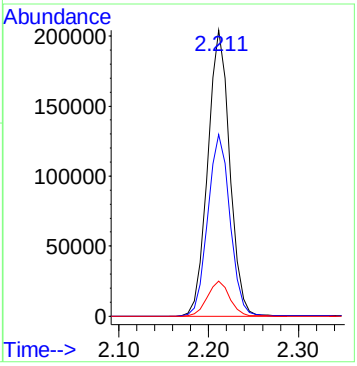


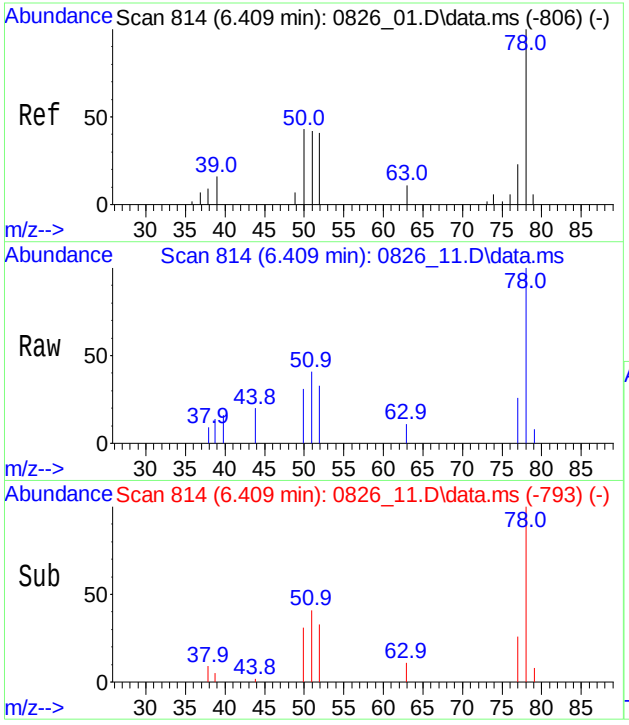


#5
Trichlorofluoromethane
Conc: 8$ 11.699 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion:101 Resp: 347537

Ion	Ratio	Lower	Upper
101	100		
103	64.3	52.1	78.1
66	12.3	9.8	14.6

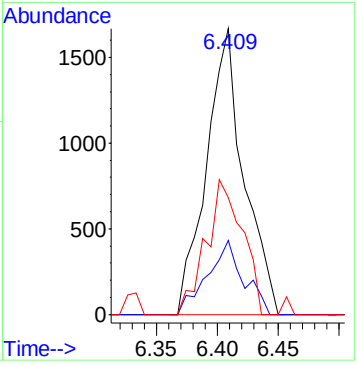


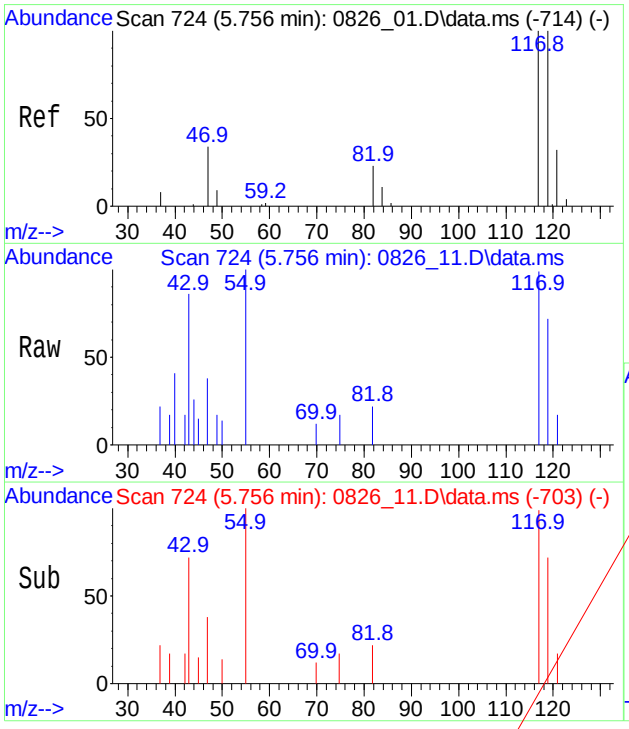


#13
Benzene
Conc: 8$ 0.188 ppbv
RT: 6.409 min Scan# 814
Delta R.T. -0.005 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 78 Resp: 3529

Ion	Ratio	Lower	Upper
78	100		
77	24.9	19.0	28.6
51	45.5	33.0	49.6

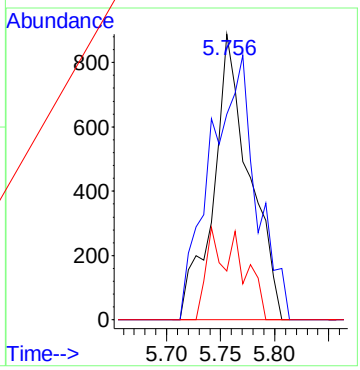


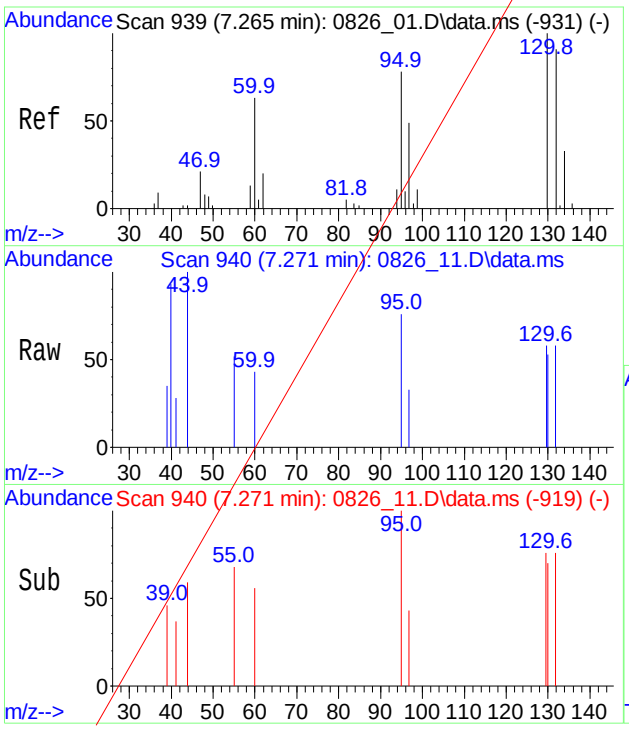


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.756 min Scan# 724
Delta R.T. 0.002 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion:117 Resp: 2059

Ion	Ratio	Lower	Upper
117	100		
119	117.8	76.4	116.4#
121	15.5	11.9	51.9

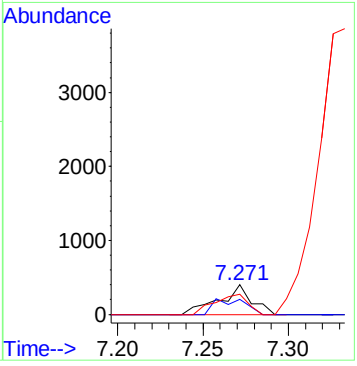


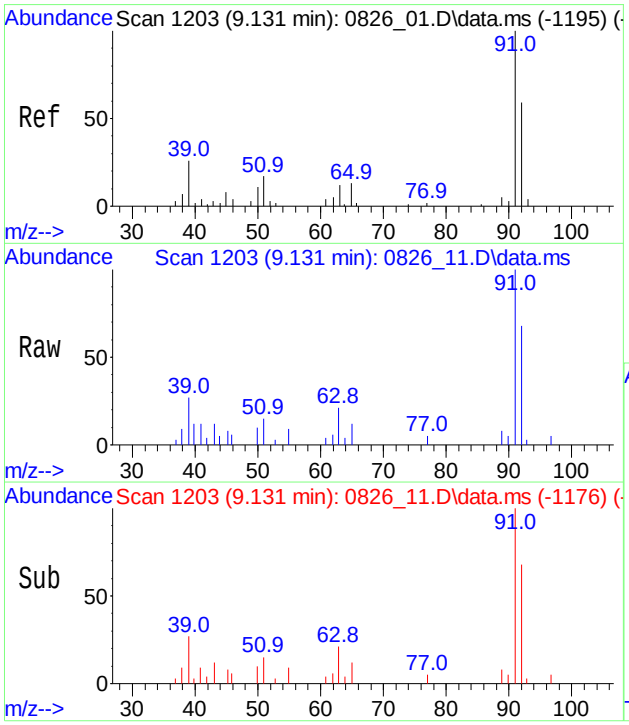


#17
Trichloroethene
Conc: 8$ Below Cal
RT: 7.271 min Scan# 940
Delta R.T. -0.006 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion:130 Resp: 530

Ion	Ratio	Lower	Upper
130	100		
132	50.9	77.1	115.7#
95	70.0	71.7	107.5#

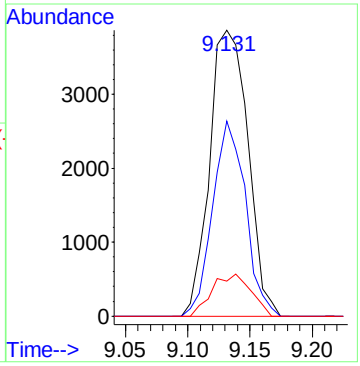


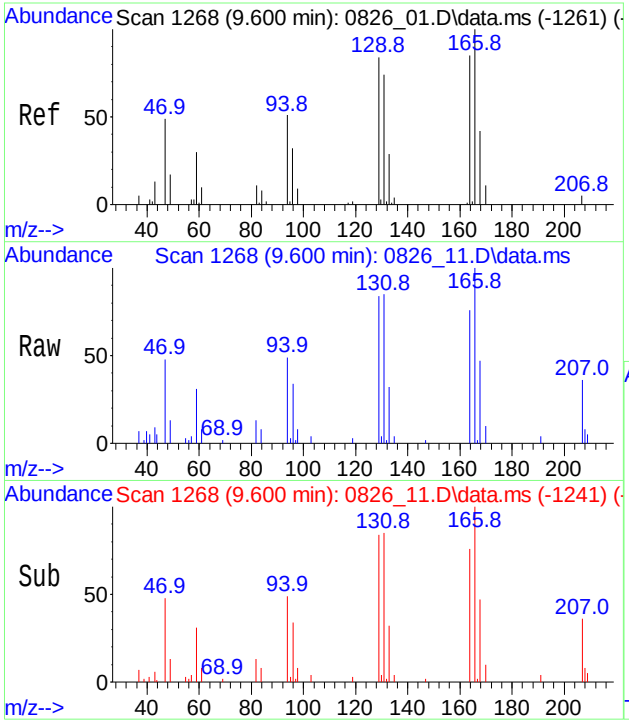


#18
Toluene
Conc: 8$ 0.291 ppbv
RT: 9.131 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 91 Resp: 8200

Ion	Ratio	Lower	Upper
91	100		
92	58.3	46.2	69.2
65	14.8	11.0	16.6

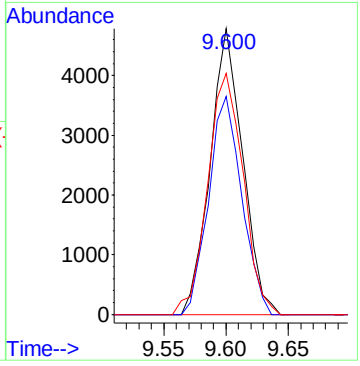


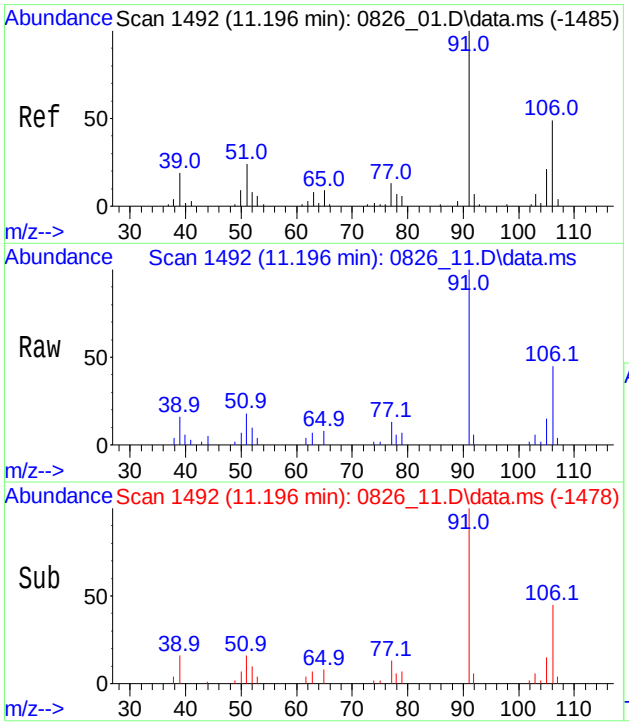


#19
Tetrachloroethene
Conc: 8$ 0.491 ppbv
RT: 9.600 min Scan# 1268
Delta R.T. -0.005 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion:166 Resp: 8589

Ion	Ratio	Lower	Upper
166	100		
164	77.6	62.4	93.6
129	91.9	69.8	104.8

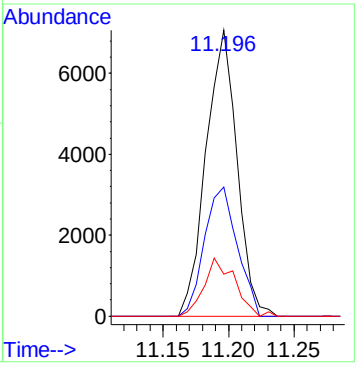


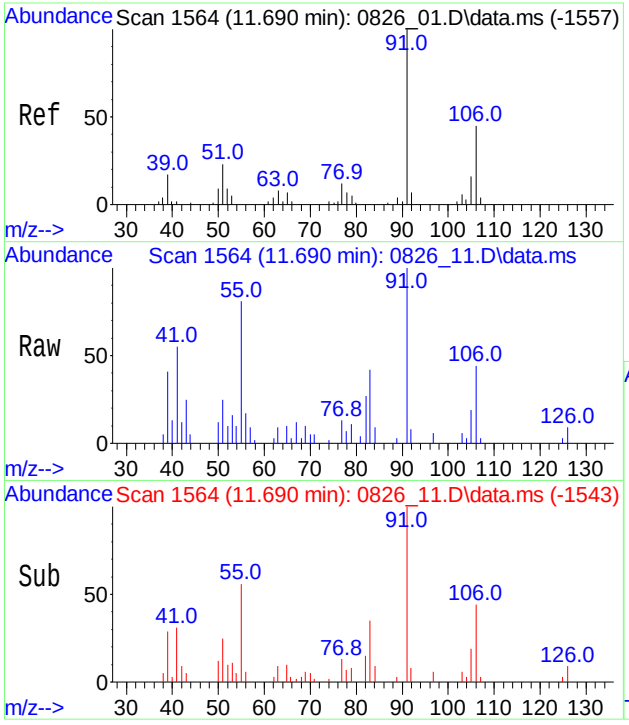


#23
m,p-Xylene
Conc: 8$ 0.391 ppbv
RT: 11.196 min Scan# 1492
Delta R.T. -0.005 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 91 Resp: 11461

Ion	Ratio	Lower	Upper
91	100		
106	47.8	39.3	58.9
105	20.1	17.8	26.6

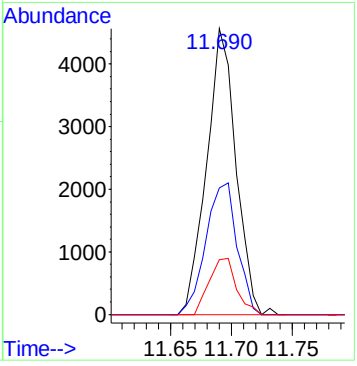


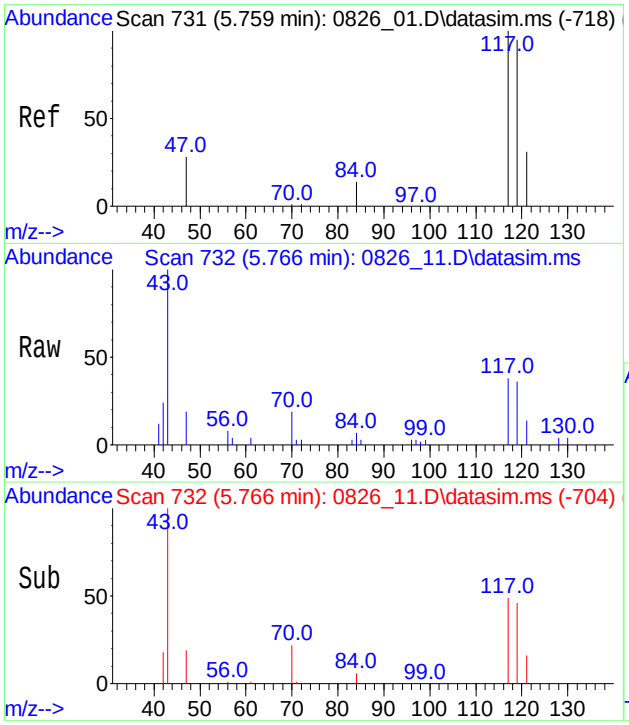


#24
o-Xylene
Conc: 8$ 0.237 ppbv
RT: 11.690 min Scan# 1564
Delta R.T. -0.005 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 91 Resp: 7553

Ion	Ratio	Lower	Upper
91	100		
106	49.0	38.0	57.0
105	18.3	15.0	22.6

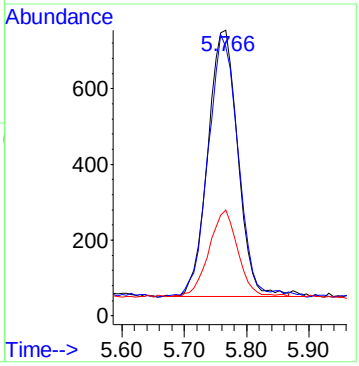


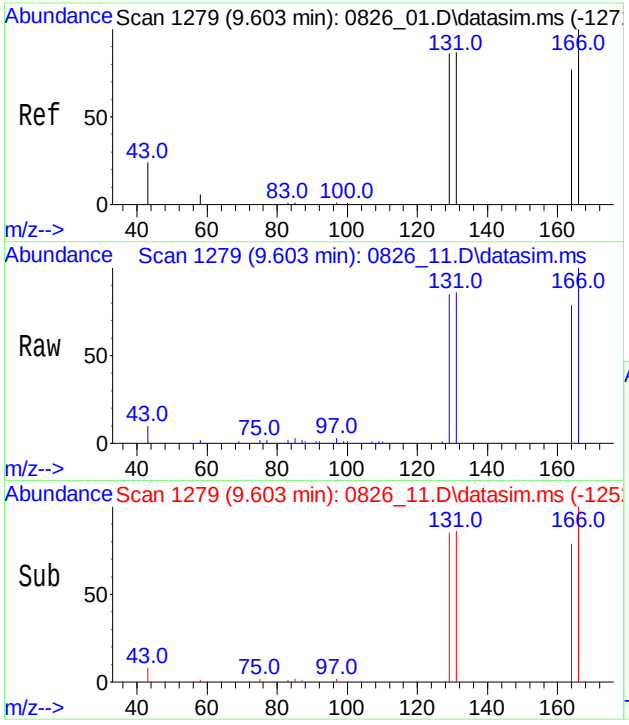


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.068 ppbv
RT: 5.766 min Scan# 732
Delta R.T. 0.002 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion:117 Resp: 2303

Ion	Ratio	Lower	Upper
117	100		
119	98.3	76.7	115.1
121	31.3	25.4	38.0

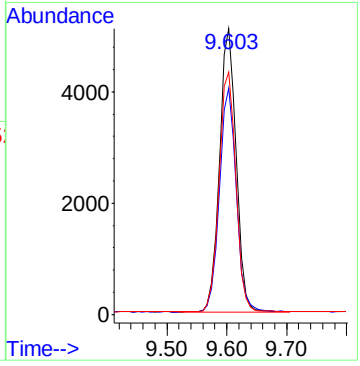


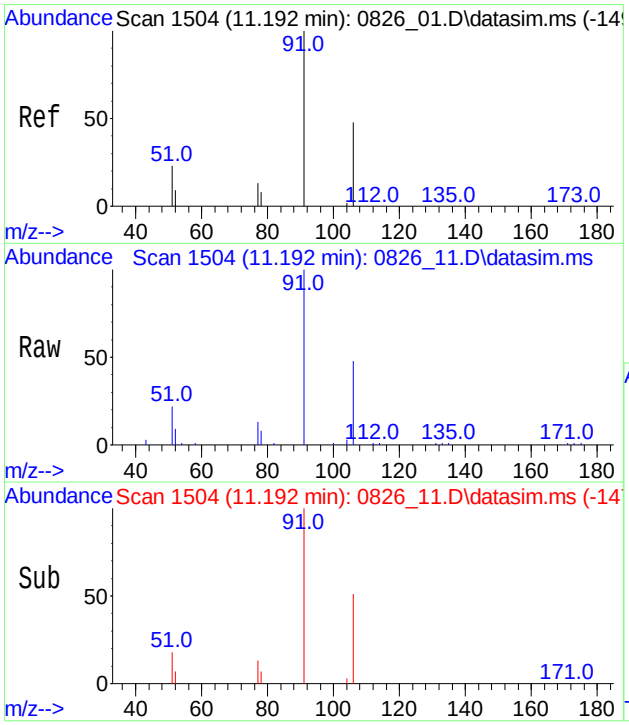


#46
Tetrachloroethene(sim)
Conc: 8$ 0.619 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion:166 Resp: 9772

Ion	Ratio	Lower	Upper
166	100		
164	80.0	58.0	98.0
129	85.7	67.3	107.3

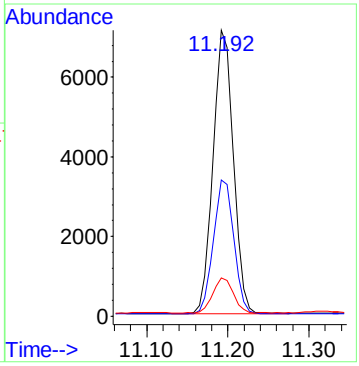




#48
m,p-Xylene(sim)
Conc: 8$ 0.430 ppbv
RT: 11.192 min Scan# 1504
Delta R.T. -0.009 min
Lab File: 0826_11.D
Acq: 26 Aug 2020 2:03 pm

Tgt Ion: 91 Resp: 12367

Ion	Ratio	Lower	Upper
91	100		
106	47.6	44.2	54.0
77	12.9	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: AA-01 (NE CORNER 320A)

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61565

Canister: 12855 Lab File ID: 0826_12.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.334		0.200	0.200	r
67-64-1	Acetone	2.43	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.218		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.061		0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.068		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.112		0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.156		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_12.D
Acq On : 26 Aug 2020 2:43 pm
Operator : Keith
Client ID : AA-01 (NE CORNER 320A)
Lab ID : CG61565
ALS Vial : 216 Sample Multiplier: 1

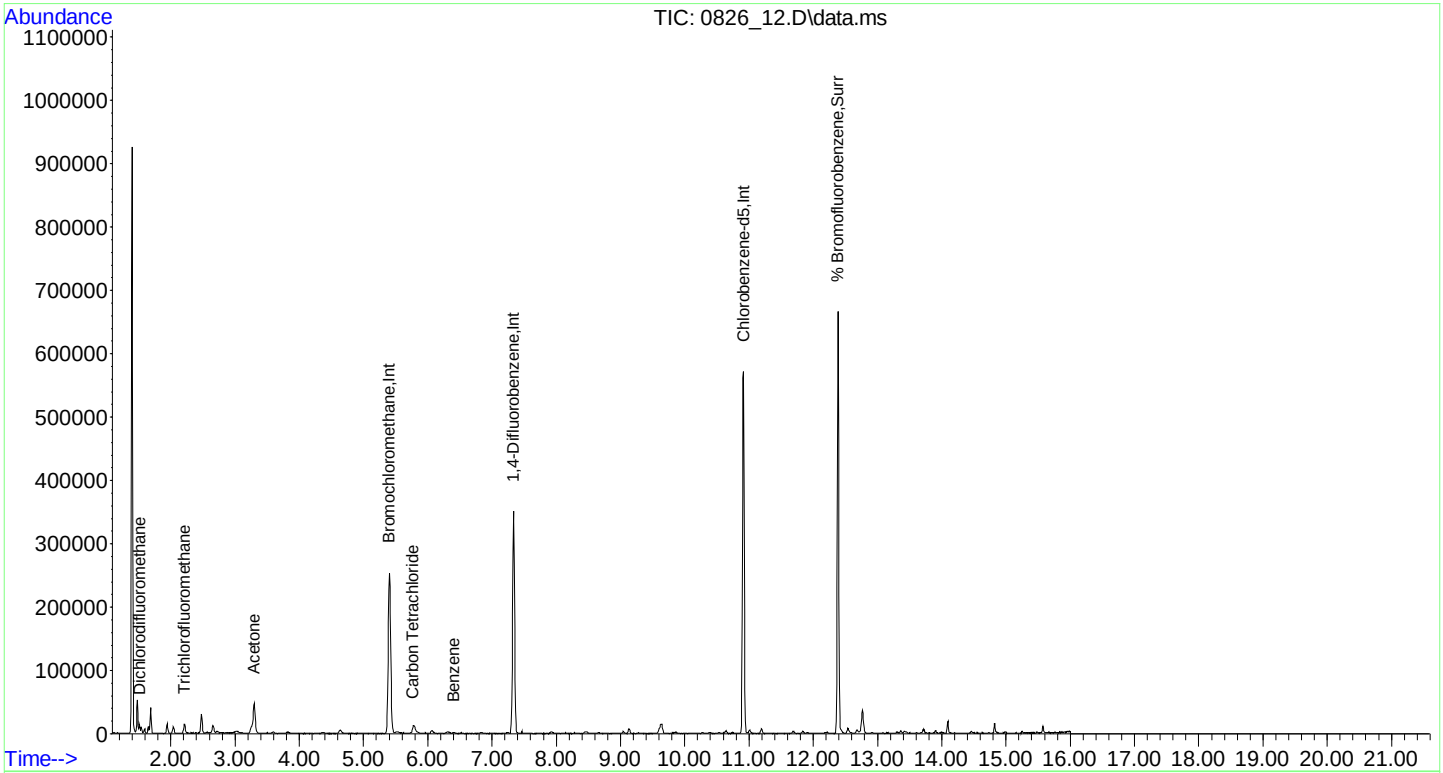
Quant Time: Oct 13 15:44:50 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

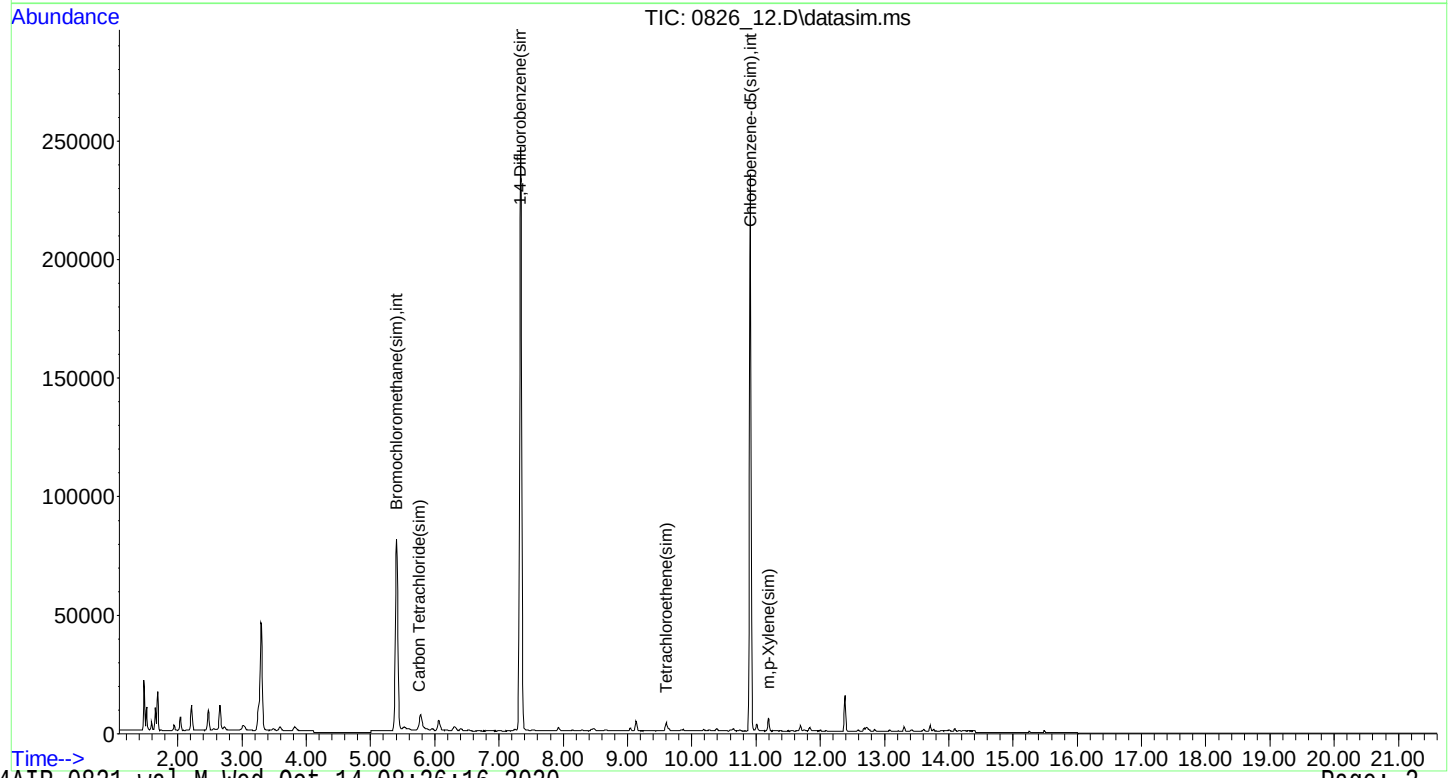
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	101417	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.333	114	306432	10.000	ng		0.00
20) Chlorobenzene-d5	10.915	82	137006	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	109997	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.333	114	306432	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.915	82	137006	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.382	95	209257	9.794	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	6122	0.334	ppbv		93
4) Acetone	3.299	43	72690	2.434	ppbv		96
5) Trichlorofluoromethane	2.211	101	6684	0.218	ppbv		93
13) Benzene	6.402	78	1190	0.061	ppbv	#	89
14) Carbon Tetrachloride	5.763	117	2092	0.071	ppbv		97
34] Carbon Tetrachloride(sim)	5.759	117	2332	0.068	ppbv		98
46] Tetrachloroethene(sim)	9.603	166	1800	0.112	ppbv		96
48] m,p-Xylene(sim)	11.192	91	4610	0.156	ppbv		99

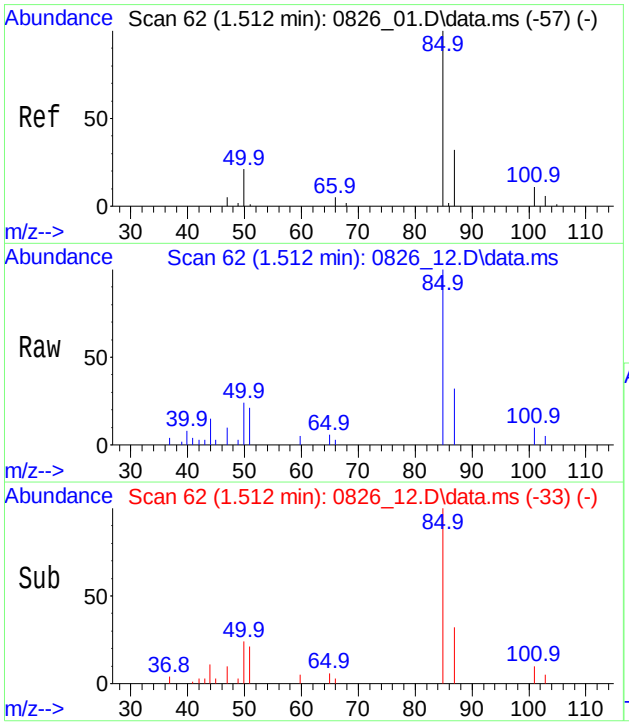
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_12.D
Acq On : 26 Aug 2020 2:43 pm
Operator : Keith
Client ID : AA-01 (NE CORNER 320A)
Lab ID : CG61565
ALS Vial : 216 Sample Multiplier: 1

Quant Time: Oct 13 15:44:50 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



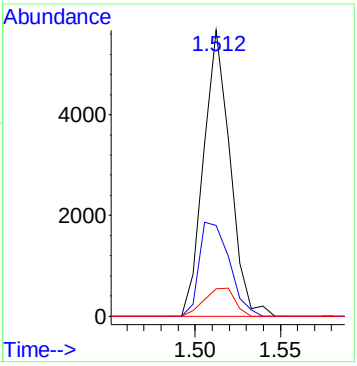


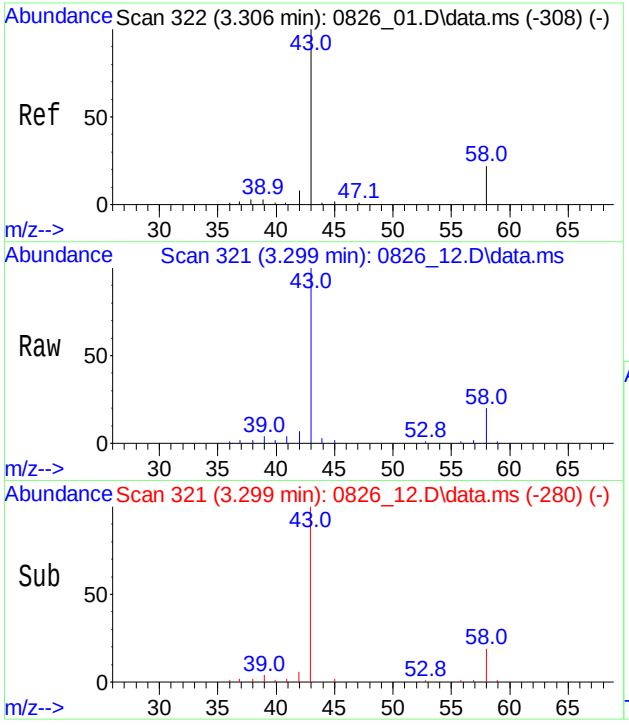


#2
Dichlorodifluoromethane
Conc: 8$ 0.334 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion: 85 Resp: 6122

Ion	Ratio	Lower	Upper
85	100		
87	37.3	26.1	39.1
101	11.3	8.4	12.6

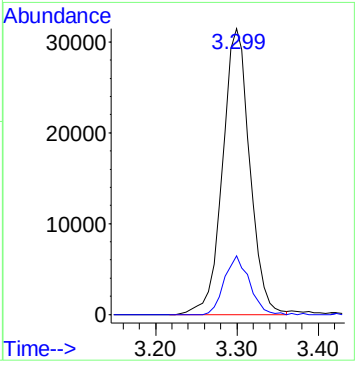


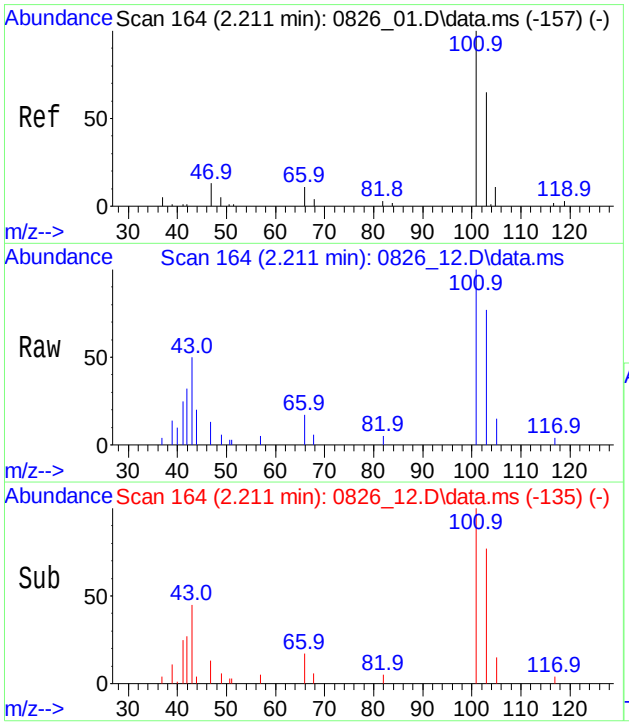


#4
Acetone
Conc: 8$ 2.434 ppbv
RT: 3.299 min Scan# 321
Delta R.T. -0.021 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion: 43 Resp: 72690

Ion	Ratio	Lower	Upper
43	100		
58	19.0	16.7	25.1

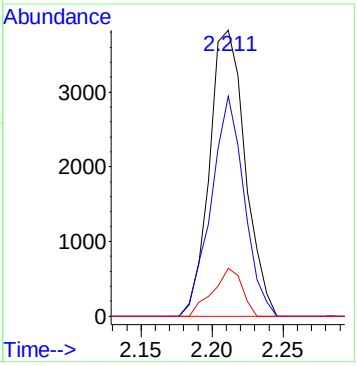


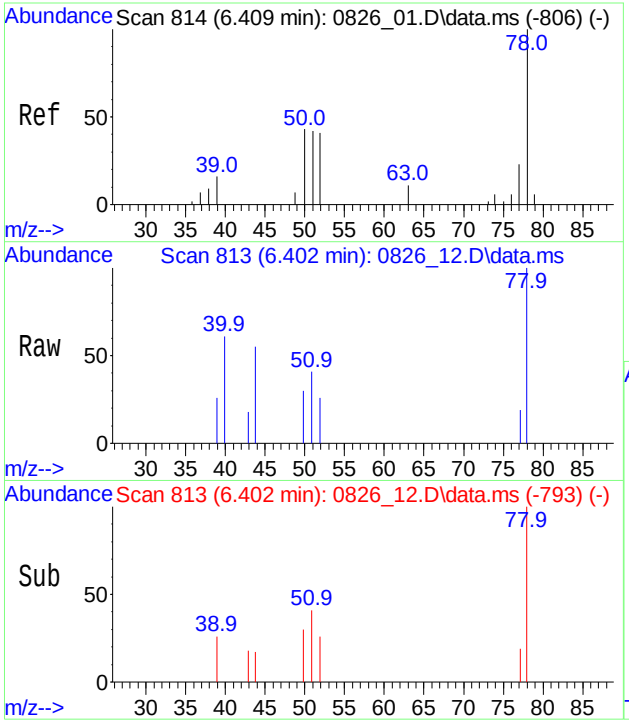


#5
Trichlorofluoromethane
Conc: 8$ 0.218 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion:101 Resp: 6684

Ion	Ratio	Lower	Upper
101	100		
103	70.8	52.1	78.1
66	13.7	9.8	14.6

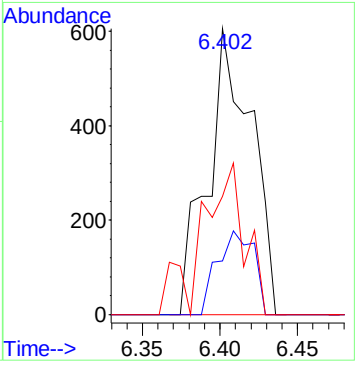


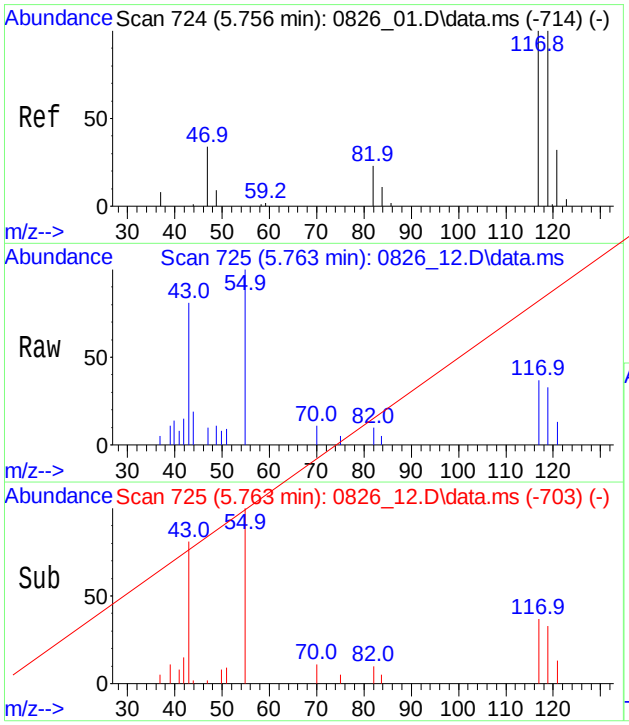


#13
Benzene
Conc: 8$ 0.061 ppbv
RT: 6.402 min Scan# 813
Delta R.T. -0.012 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion: 78 Resp: 1190

Ion	Ratio	Lower	Upper
78	100		
77	24.2	19.0	28.6
51	52.2	33.0	49.6#

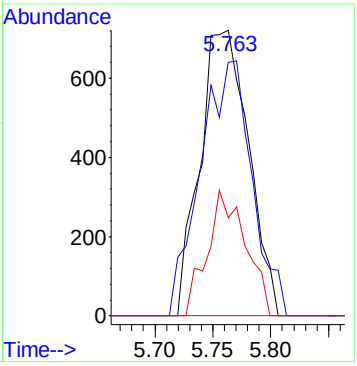


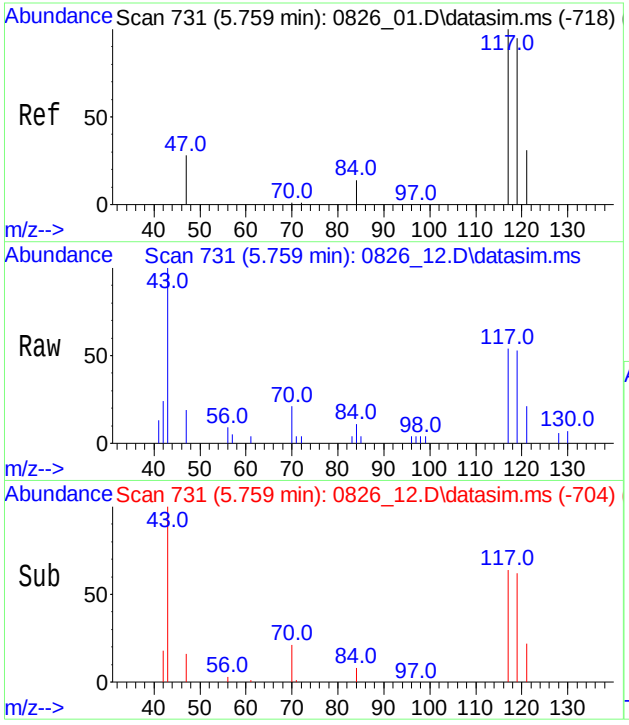


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.763 min Scan# 725
Delta R.T. 0.009 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion:117 Resp: 2092

Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.4	116.4
121	34.6	11.9	51.9

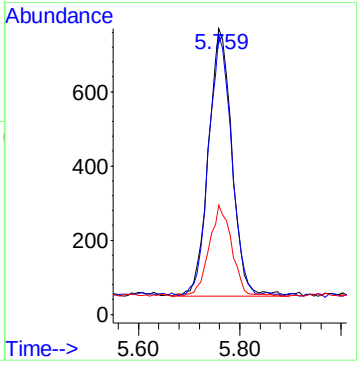


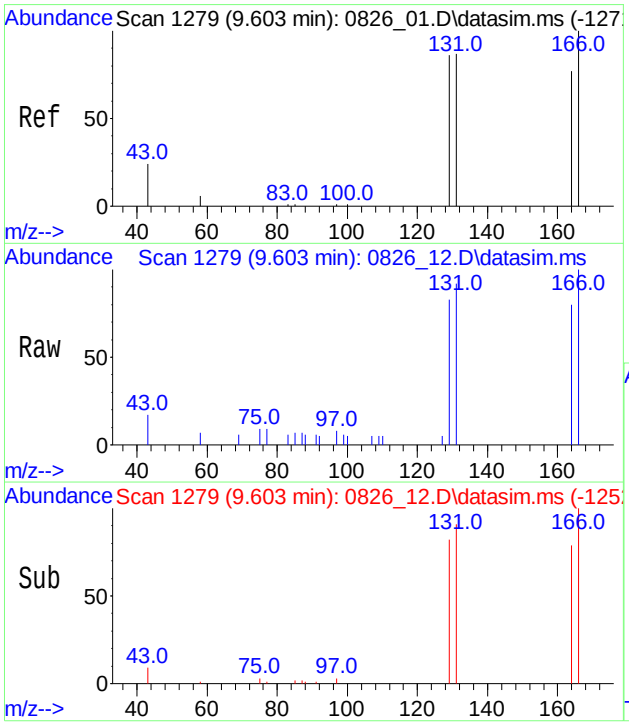


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.068 ppbv
RT: 5.759 min Scan# 731
Delta R.T. -0.005 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion:117 Resp: 2332

Ion	Ratio	Lower	Upper
117	100		
119	94.7	76.7	115.1
121	33.0	25.4	38.0

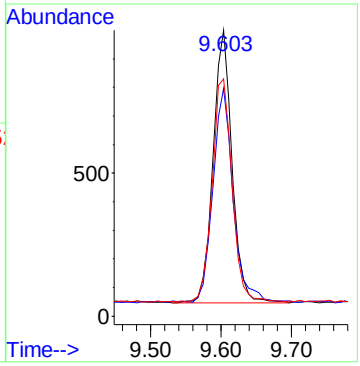


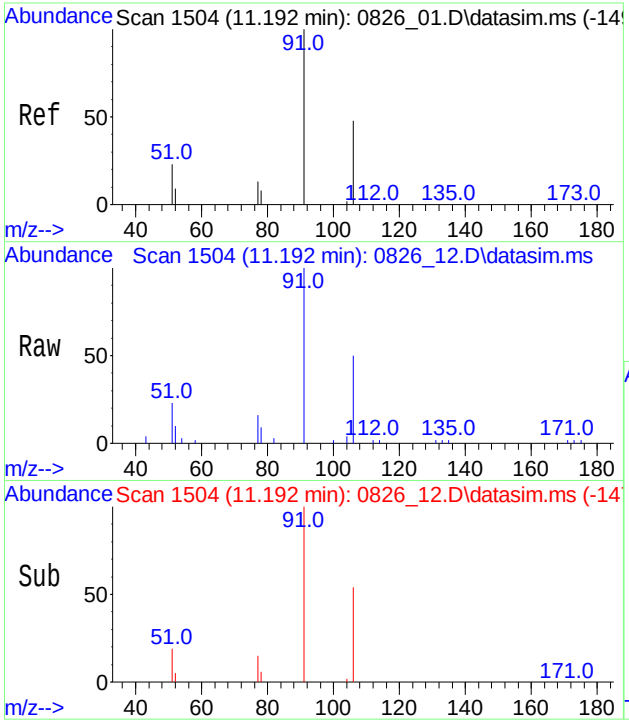


#46
Tetrachloroethene(sim)
Conc: 8$ 0.112 ppbv
RT: 9.603 min Scan# 1279
Delta R.T. -0.002 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion:166 Resp: 1800

Ion	Ratio	Lower	Upper
166	100		
164	83.1	58.0	98.0
129	85.6	67.3	107.3

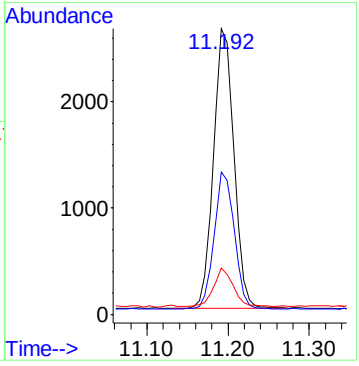




#48
m,p-Xylene(sim)
Conc: 8$ 0.156 ppbv
RT: 11.192 min Scan# 1504
Delta R.T. -0.009 min
Lab File: 0826_12.D
Acq: 26 Aug 2020 2:43 pm

Tgt Ion: 91 Resp: 4610

Ion	Ratio	Lower	Upper
91	100		
106	48.4	44.2	54.0
77	13.1	10.2	15.2



Response Factor Report Chem24

Method Path : H:\AIR2020\CHEM24\METHODS\
Method File : 24AIR_0821_wal.M
Title : VOA Standards for 5 point calibration
Last Update : Mon Aug 24 09:10:37 2020
Response Via : Initial Calibration

Calibration Files (Note: Curves (l,lf,g,qf) display calculated conc and corr. coefficient.)
.035=0821_11.D 0.05=0821_12.D 0.1 =0821_13.D 0.5 =0821_14.D 1.0 =0821_20.D 2.5 =0821_15.D 5.0 =0821_16.D 10 =0821_21.D
25 =0821_17.D 40 =0821_18.D 0.02=0821_10.D

	Compound	.035	0.05	0.1	0.5	1.0	2.5	5.0	10	25	40	0.02	Avg	%RSD
1)	Int Bromochloromethane	----------	ISTD	----------										
2)	Dichlorodifluo...			2.239	1.735	1.893	1.586	2.359	1.830	1.609	1.200		1.806	20.51
3)	Vinyl Chloride			1.054	0.966	1.010	0.906	1.078	1.007	0.978	0.877		0.984	6.96
4)	Acetone			4.534	3.513	2.918	2.528	2.728	2.308	2.694	2.334		2.945	25.38
5)	Trichlorofluor...			2.930	3.163	2.957	3.067	3.448	3.004	3.023	2.633		3.028	7.56
6)	1,1-Dichloroet...			1.978	2.002	1.920	1.957	2.165	1.922	1.925	1.739		1.951	6.02
7)	Methylene Chlo...			3.442	2.434	2.076	2.136	2.326	1.953	1.972	1.733		2.259	23.28
8)	Trichlorotrifl...			2.020	2.153	1.959	1.971	2.181	1.966	1.919	1.767		1.992	6.59
10)	Cis-1,2-Dichlo...			1.888	1.682	1.594	1.576	1.792	1.617	1.611	1.511		1.659	7.48
12)	1,1,1-Trichlor...			2.913	2.588	2.268	2.363	2.693	2.284	2.294	2.090		2.437	11.11
13)	Benzene			1.946	1.991	1.910	1.834	2.063	1.887	1.857	1.800		1.911	4.52
14)	Carbon Tetrach...			3.238	3.029	2.800	2.906	3.258	2.785	2.814	2.547		2.922	8.29
15)	Int 1,4-Difluorobenzene	----------	ISTD	----------										
17)	Trichloroethene			0.496	0.505	0.475	0.480	0.525	0.495	0.488	0.502		0.496	3.16
18)	Toluene			0.993	0.925	0.875	0.894	0.983	0.941	0.941	0.958		0.939	4.31
19)	Tetrachloroethene			0.609	0.586	0.547	0.557	0.609	0.585	0.581	0.587		0.583	3.75
20)	Int Chlorobenzene-d5	----------	ISTD	----------										
21)	Chlorobenzene			2.110	1.922	1.944	1.839	2.077	1.978	1.987	2.003		1.982	4.31
22)	Ethylbenzene			3.105	2.772	2.822	2.702	3.071	2.841	2.876	2.844		2.879	4.85
23)	m,p-Xylene			2.259	2.164	1.816	2.142	2.407	2.245	2.300	2.232		2.196	7.91
24)	o-Xylene			2.563	2.300	2.282	2.241	2.546	2.341	2.438	2.366		2.385	5.05
25)	Surr% Bromofluorob...			1.525	1.530	1.514	1.531	1.589	1.560	1.641	1.587		1.559	2.78
26)	1,3-Dichlorobe...			1.933	1.745	1.838	1.834	2.014	1.867	1.910	1.861		1.875	4.24
27)	1,4-Dichlorobe...			1.832	1.699	1.831	1.740	1.920	1.836	1.885	1.815		1.820	3.92
28)	1,2-Dichlorobe...			1.682	1.431	1.493	1.483	1.575	1.457	1.555	1.460		1.517	5.44
29)	1,2,4-Trichlor...			0.644	0.651	0.860	0.823	0.693	0.705	0.826			0.743	12.18
30)	int Bromochloromethane...	----------	ISTD	----------										
31)	Vinyl Chloride...	1.224	1.103	0.997	0.985	1.014	0.958	1.087					1.053	8.79
34)	Carbon Tetrach...	3.416	3.219	2.983	2.958	2.747	2.898	3.131				3.770	3.140	10.43
35)	1,1-Dichloroet...	2.414	1.815	1.807	1.833	1.766	1.788	1.946				2.433	1.975	14.28
39)	Cis-1,2-Dichlo...	1.735	1.606	1.725	1.528	1.463	1.440	1.610				1.935	1.630	10.06
41)	int 1,4-Difluorobenzen...	----------	ISTD	----------										
44)	Trichloroethen...	0.574	0.559	0.430	0.442	0.420	0.418	0.458				0.641	0.493	17.37
46)	Tetrachloroeth...	0.537	0.598	0.528	0.512	0.482	0.486	0.532	0.515			0.544	0.526	6.60
47)	int Chlorobenzene-d5(sim)	----------	ISTD	----------										
48)	m,p-Xylene(sim)	2.443	2.315	2.068	1.979	2.082	1.990	2.189					2.152	8.06
50)	1,4-Dichlorobe...	1.907	1.684	1.678	1.554	1.677	1.616	1.757					1.696	6.62

Method Path : H:\AIR2020\CHEM24\METHODS\
Method File : 24AIR_0821_wal.M
Title : VOA Standards for 5 point calibration

(#,$,@)=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 | Client: WALDENE-IPARK

Lab Code: Phoenix | SDG No.: GCG61563

Instrument ID: CHEM24 | Calibration Date From: 08/21/20 15:59

Heated Purge (Y/N): Y | Calibration Date Thru: 08/21/20 21:53

GC Column: | Method File: 24AIR_0821_wal.M

Laboratory File Ids

RRF1 0821_10.D RRF2 0821_11.D RRF3 0821_12.D RRF4 0821_13.D RRF5 0821_14.D RRF6 0821_20.D
RRF7 0821_15.D RRF8 0821_16.D RRF9 0821_21.D RRF10 0821_17.D RRF11 0821_18.D

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	%RSD
Dichlorodifluoromethane				2.239	1.735	1.893	1.586	2.359	1.830	1.609	1.200		1.806	20.51
Vinyl Chloride				1.054	0.966	1.010	0.906	1.078	1.007	0.978	0.877		0.984	6.96
Acetone				4.534	3.513	2.918	2.528	2.728	2.308	2.694	2.334		2.945	25.38
Trichlorofluoromethane				2.930	3.163	2.957	3.067	3.448	3.004	3.023	2.633		3.028	7.56
1,1-Dichloroethene				1.978	2.002	1.920	1.957	2.165	1.922	1.925	1.739		1.951	6.02
Methylene Chloride				3.442	2.434	2.076	2.136	2.326	1.953	1.972	1.733		2.259	23.28
Trichlorotrifluoroethane				2.020	2.153	1.959	1.971	2.181	1.966	1.919	1.767		1.992	6.59
Cis-1,2-Dichloroethene				1.888	1.682	1.594	1.576	1.792	1.617	1.611	1.511		1.659	7.48
1,1,1-Trichloroethane				2.913	2.588	2.268	2.363	2.693	2.284	2.294	2.090		2.437	11.11
Benzene				1.946	1.991	1.910	1.834	2.063	1.887	1.857	1.800		1.911	4.52
Carbon Tetrachloride				3.238	3.029	2.800	2.906	3.258	2.785	2.814	2.547		2.922	8.29
Trichloroethene				0.496	0.505	0.475	0.480	0.525	0.495	0.488	0.502		0.496	3.16
Toluene				0.993	0.925	0.875	0.894	0.983	0.941	0.941	0.958		0.939	4.31
Tetrachloroethene				0.609	0.586	0.547	0.557	0.609	0.585	0.581	0.587		0.583	3.75
Chlorobenzene				2.110	1.922	1.944	1.839	2.077	1.978	1.987	2.003		1.982	4.31
Ethylbenzene				3.105	2.772	2.822	2.702	3.071	2.841	2.876	2.844		2.879	4.85
m,p-Xylene				2.259	2.164	1.816	2.142	2.407	2.245	2.300	2.232		2.196	7.91
o-Xylene				2.563	2.300	2.282	2.241	2.546	2.341	2.438	2.366		2.385	5.05
1,3-Dichlorobenzene				1.933	1.745	1.838	1.834	2.014	1.867	1.910	1.861		1.875	4.24
1,4-Dichlorobenzene				1.832	1.699	1.831	1.740	1.920	1.836	1.885	1.815		1.820	3.92
1,2-Dichlorobenzene				1.682	1.431	1.493	1.483	1.575	1.457	1.555	1.460		1.517	5.44
1,2,4-Trichlorobenzene				0.644	0.651	0.860	0.823	0.693	0.705	0.826			0.743	12.18
Vinyl Chloride(sim)		1.224	1.103	0.997	0.985	1.014	0.958	1.087					1.053	8.79
Carbon Tetrachloride(sim)	3.770	3.416	3.219	2.983	2.958	2.747	2.898	3.131					3.140	10.43
1,1-Dichloroethene(sim)	2.433	2.414	1.815	1.807	1.833	1.766	1.788	1.946					1.975	14.28

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

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

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

6B
AIR INITIAL CALIBRATION DATA

Lab Name: Phoenix Environmental Labs | Client: WALDENE-IPARK

Lab Code: Phoenix | SDG No.: GCG61563

Instrument ID: CHEM24 | Calibration Date From: 08/21/20 15:59

Heated Purge (Y/N): Y | Calibration Date Thru: 08/21/20 21:53

GC Column: | Method File: 24AIR_0821_wal.M

Laboratory File Ids

RRF1 0821_10.D RRF2 0821_11.D RRF3 0821_12.D RRF4 0821_13.D RRF5 0821_14.D RRF6 0821_20.D
RRF7 0821_15.D RRF8 0821_16.D RRF9 0821_21.D RRF10 0821_17.D RRF11 0821_18.D

COMPOUND	RRF1 0.02	RRF2 0.035	RRF3 0.05	RRF4 0.1	RRF5 0.5	RRF6 1	RRF7 2.5	RRF8 5	RRF9 10	RRF10 25	RRF11 40		$\overline{RRF}$	% RSD
Cis-1,2-Dichloroethene(sim)	1.935	1.735	1.606	1.725	1.528	1.463	1.440	1.610					1.630	10.06
Trichloroethene(sim)	0.641	0.574	0.559	0.430	0.442	0.420	0.418	0.458					0.493	17.37
Tetrachloroethene(sim)	0.544	0.537	0.598	0.528	0.512	0.482	0.486	0.532	0.515				0.526	6.60
m,p-Xylene(sim)		2.443	2.315	2.068	1.979	2.082	1.990	2.189					2.152	8.06
1,4-Dichlorobenzene(sim)		1.907	1.684	1.678	1.554	1.677	1.616	1.757					1.696	6.62
% Bromofluorobenzene				1.525	1.530	1.514	1.531	1.589	1.560	1.641	1.587		1.559	2.78

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

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

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

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_10.D
Acq On : 21 Aug 2020 1:44 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 8 Sample Multiplier: 1

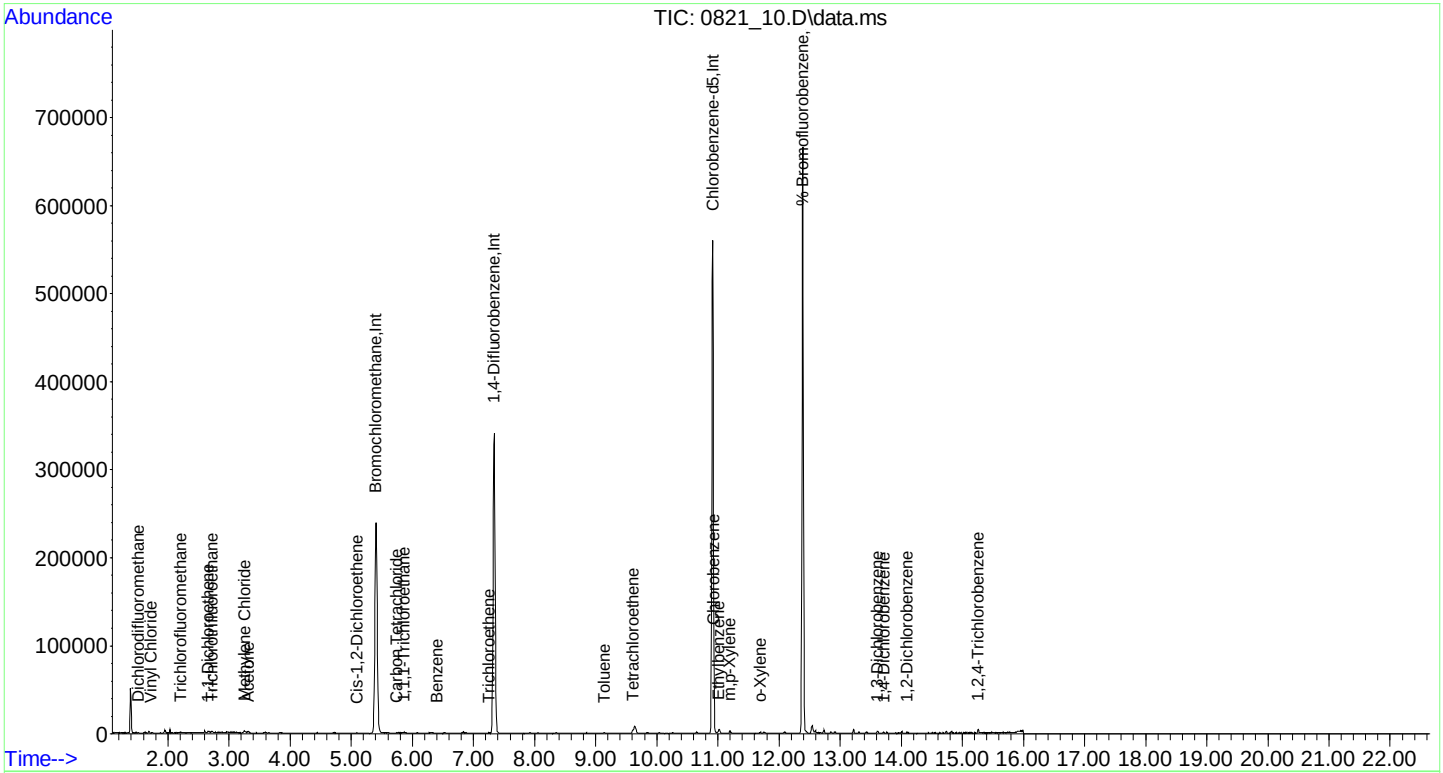
Quant Time: Aug 24 09:00:42 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:59 2020
Response via : Initial Calibration

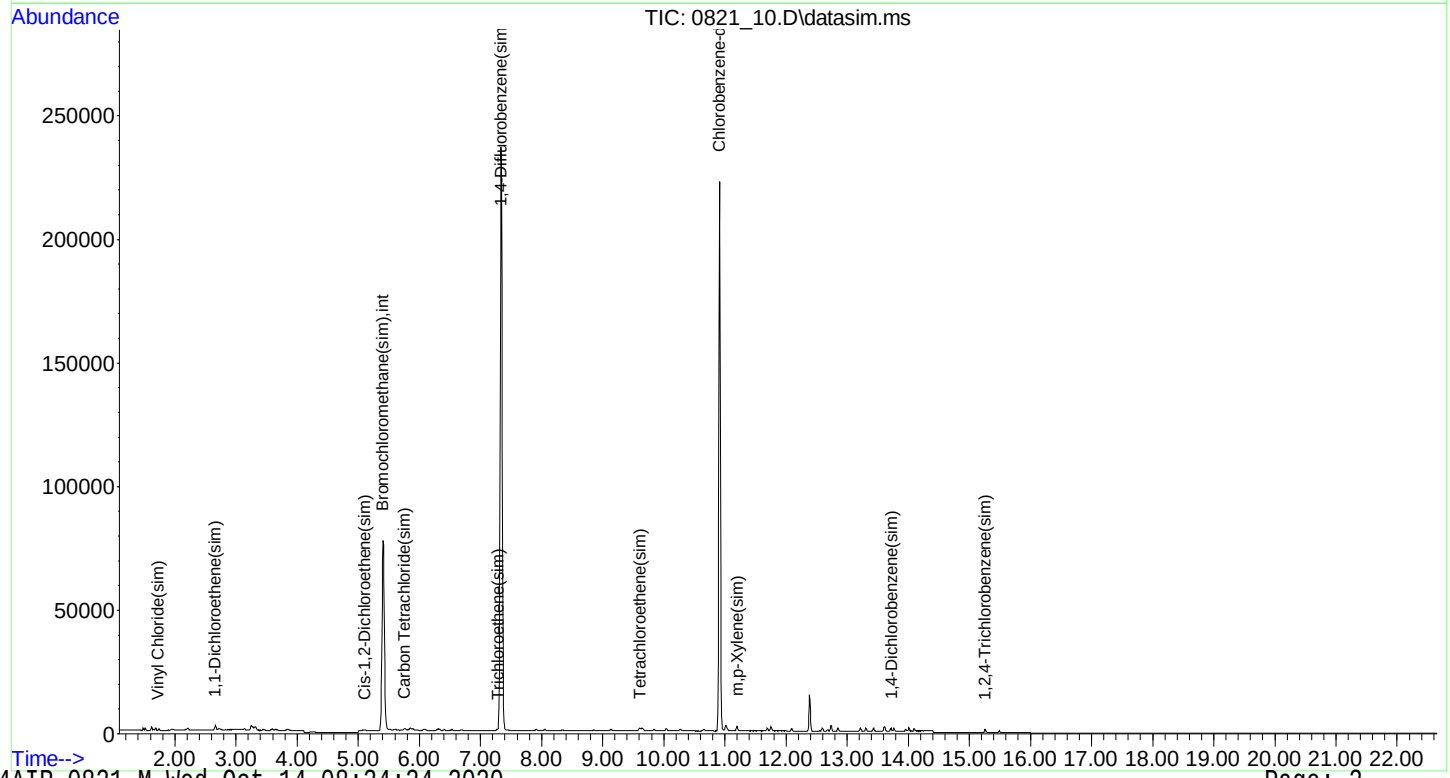
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	95090	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	294738	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	131505	10.000	ng		0.00
80) Bromochloromethane(sim)	5.406	130	106227	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.336	114	336290	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.911	82	142902	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	199155	9.680	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.80%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	577	0.034	ppbv	#	89
6) Vinyl Chloride	1.725	62	149	0.016	ppbv	#	46
12) Acetone	3.313	43	2969	0.106	ppbv	#	85
13) Trichlorofluoromethane	2.211	101	901	0.031	ppbv	#	90
16) 1,1-Dichloroethene	2.656	61	576	0.031	ppbv	#	49
17) Methylene Chloride	3.251	49	2059	0.096	ppbv	#	84
21) Trichlorotrifluoroethane	2.718	101	527	0.028	ppbv	#	80
26) Cis-1,2-Dichloroethene	5.100	61	411	0.026	ppbv	#	33
32) 1,1,1-Trichloroethane	5.857	97	599	0.026	ppbv	#	63
33) Benzene	6.409	78	466	0.026	ppbv	#	59
34) Carbon Tetrachloride	5.742	117	234	0.008	ppbv	#	1
39) Trichloroethene	7.251	130	212	0.015	ppbv	#	17
48) Toluene	9.138	91	609	0.022	ppbv	#	90
52) Tetrachloroethene	9.608	166	434	0.025	ppbv	#	85
55) Chlorobenzene	10.935	112	643	0.025	ppbv	#	1
56) Ethylbenzene	11.011	91	931	0.025	ppbv		97
57) m,p-Xylene	11.196	91	1516	0.053	ppbv	#	89
61) o-Xylene	11.697	91	727	0.023	ppbv	#	92
71) 1,3-Dichlorobenzene	13.616	146	628	0.025	ppbv		89
72) 1,4-Dichlorobenzene	13.719	146	692	0.029	ppbv	#	87
75) 1,2-Dichlorobenzene	14.096	146	600	0.030	ppbv	#	94
77) 1,2,4-Trichlorobenzene	15.252	180	239	0.024	ppbv		91
82] Vinyl Chloride(sim)	1.728	62	272	0.024	ppbv		94
86] Carbon Tetrachloride(sim)	5.759	117	801	0.024	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	517	0.025	ppbv	#	50
91] Cis-1,2-Dichloroethene...	5.100	61	411	0.024	ppbv	#	33
97] Trichloroethene(sim)	7.278	130	431	0.026	ppbv		92
103] Tetrachloroethene(sim)	9.608	166	366	0.021	ppbv		91
107] m,p-Xylene(sim)	11.196	91	1516	0.049	ppbv	#	87
113] 1,4-Dichlorobenzene(sim)	13.719	146	692	0.029	ppbv		87
118] 1,2,4-Trichlorobenzene...	15.255	180	363	0.027	ppbv		96

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_10.D
Acq On : 21 Aug 2020 1:44 pm
Operator : Keith
Client ID : ICAL 0.02
Lab ID : 0.02
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 24 09:00:42 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:59 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_11.D
Acq On : 21 Aug 2020 2:16 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 9 Sample Multiplier: 1

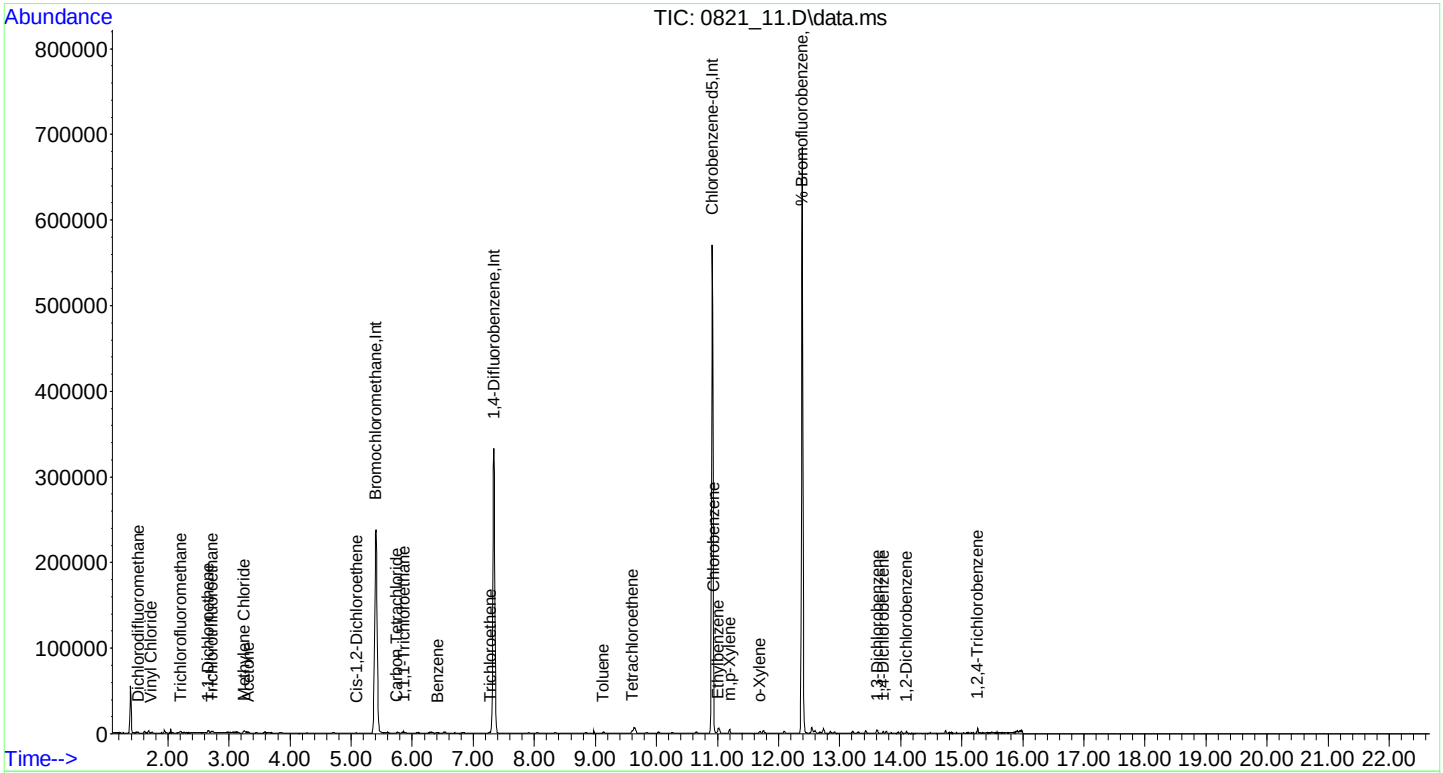
Quant Time: Aug 24 09:02:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:00:59 2020
Response via : Initial Calibration

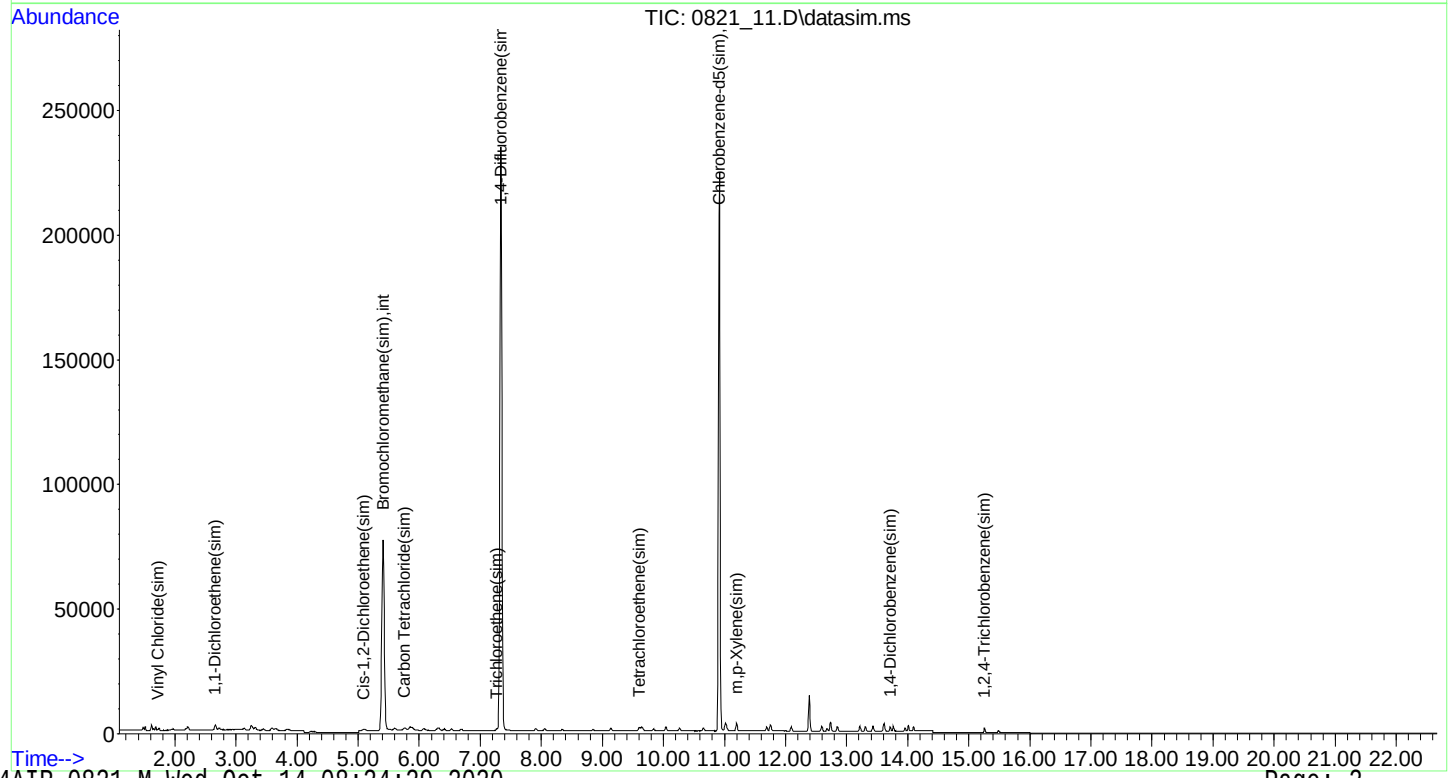
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	95524	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.338	114	290719	10.000	ng		0.00
53) Chlorobenzene-d5	10.913	82	129607	10.000	ng		0.00
80) Bromochloromethane(sim)	5.410	130	105710	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	333687	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	142193	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.387	95	198326	9.781	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.80%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.512	85	817	0.047	ppbv	#	89
6) Vinyl Chloride	1.725	62	371	0.039	ppbv	#	46
12) Acetone	3.313	43	2698	0.096	ppbv	#	90
13) Trichlorofluoromethane	2.211	101	1186	0.041	ppbv	#	93
16) 1,1-Dichloroethene	2.656	61	893	0.048	ppbv	#	80
17) Methylene Chloride	3.244	49	2245	0.104	ppbv		97
21) Trichlorotrifluoroethane	2.718	101	901	0.047	ppbv		91
26) Cis-1,2-Dichloroethene	5.090	61	642	0.041	ppbv	#	77
32) 1,1,1-Trichloroethane	5.862	97	919	0.039	ppbv	#	81
33) Benzene	6.420	78	889	0.049	ppbv	#	74
34) Carbon Tetrachloride	5.754	117	1004	0.036	ppbv		89
39) Trichloroethene	7.276	130	650	0.045	ppbv		96
48) Toluene	9.129	91	1165	0.043	ppbv	#	88
52) Tetrachloroethene	9.605	166	785	0.046	ppbv	#	66
55) Chlorobenzene	10.933	112	1314	0.051	ppbv	#	1
56) Ethylbenzene	11.016	91	1579	0.042	ppbv		98
57) m,p-Xylene	11.194	91	2432	0.085	ppbv		98
61) o-Xylene	11.688	91	1163	0.038	ppbv	#	84
71) 1,3-Dichlorobenzene	13.620	146	801	0.033	ppbv	#	80
72) 1,4-Dichlorobenzene	13.711	146	949	0.040	ppbv	#	86
75) 1,2-Dichlorobenzene	14.094	146	821	0.042	ppbv	#	90
77) 1,2,4-Trichlorobenzene	15.256	180	380	0.039	ppbv		87
82] Vinyl Chloride(sim)	1.721	62	453	0.041	ppbv		95
86] Carbon Tetrachloride(sim)	5.764	117	1264	0.038	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	893	0.043	ppbv	#	75
91] Cis-1,2-Dichloroethene...	5.090	61	642	0.037	ppbv	#	71
97] Trichloroethene(sim)	7.272	130	670m	0.041	ppbv		22
103] Tetrachloroethene(sim)	9.605	166	627	0.036	ppbv	#	73
107] m,p-Xylene(sim)	11.194	91	2432	0.079	ppbv		98
113] 1,4-Dichlorobenzene(sim)	13.711	146	949	0.039	ppbv		87
118] 1,2,4-Trichlorobenzene...	15.254	180	503	0.038	ppbv		96

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_11.D
Acq On : 21 Aug 2020 2:16 pm
Operator : Keith
Client ID : ICAL 0.035
Lab ID : 0.035
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 24 09:02:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:00:59 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_12.D
Acq On : 21 Aug 2020 2:49 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 10 Sample Multiplier: 1

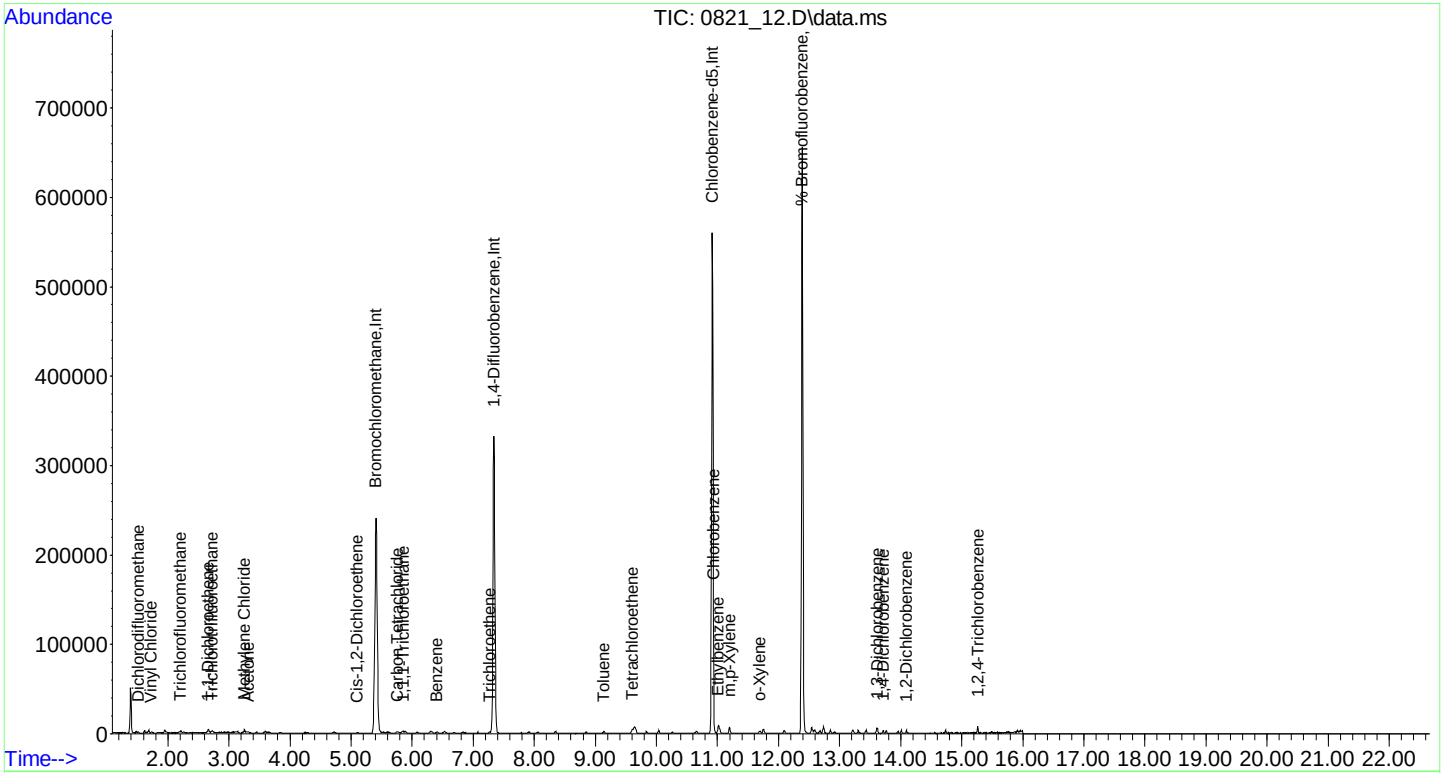
Quant Time: Aug 24 09:03:16 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:02:39 2020
Response via : Initial Calibration

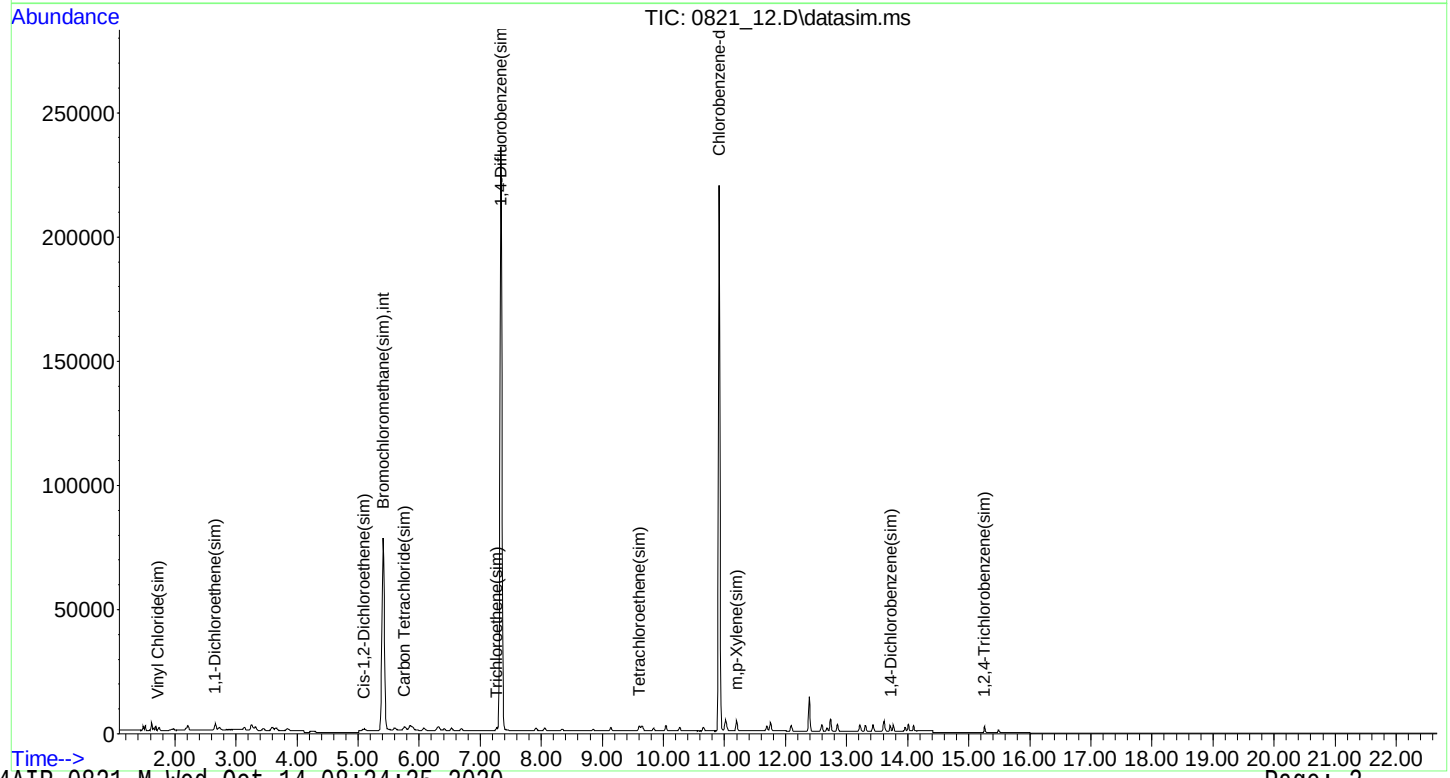
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	95271	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.338	114	288412	10.000	ng		0.00
53) Chlorobenzene-d5	10.913	82	128283	10.000	ng		0.00
80) Bromochloromethane(sim)	5.411	130	105014	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	332172	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	139165	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.387	95	198967	9.914	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.10%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	1242	0.072	ppbv	#	91
6) Vinyl Chloride	1.725	62	492	0.052	ppbv		79
12) Acetone	3.313	43	2544	0.091	ppbv		95
13) Trichlorofluoromethane	2.211	101	1766	0.061	ppbv	#	95
16) 1,1-Dichloroethene	2.656	61	953	0.051	ppbv	#	77
17) Methylene Chloride	3.251	49	2389	0.111	ppbv		98
21) Trichlorotrifluoroethane	2.725	101	1096	0.058	ppbv		91
26) Cis-1,2-Dichloroethene	5.098	61	843	0.053	ppbv	#	82
32) 1,1,1-Trichloroethane	5.855	97	1402	0.060	ppbv	#	81
33) Benzene	6.400	78	1117	0.061	ppbv		96
34) Carbon Tetrachloride	5.761	117	1461	0.052	ppbv		88
39) Trichloroethene	7.270	130	739	0.052	ppbv		89
48) Toluene	9.136	91	1700	0.063	ppbv	#	83
52) Tetrachloroethene	9.605	166	994	0.059	ppbv		95
55) Chlorobenzene	10.933	112	1526	0.060	ppbv	#	1
56) Ethylbenzene	11.016	91	2129	0.058	ppbv		87
57) m,p-Xylene	11.194	91	3221	0.114	ppbv		98
61) o-Xylene	11.688	91	1663	0.054	ppbv	#	95
71) 1,3-Dichlorobenzene	13.620	146	1305	0.054	ppbv		95
72) 1,4-Dichlorobenzene	13.717	146	1172	0.050	ppbv		94
75) 1,2-Dichlorobenzene	14.087	146	1344	0.069	ppbv	#	81
77) 1,2,4-Trichlorobenzene	15.261	180	445	0.047	ppbv		92
82) Vinyl Chloride(sim)	1.721	62	579	0.052	ppbv		97
86) Carbon Tetrachloride(sim)	5.764	117	1690	0.051	ppbv		99
87) 1,1-Dichloroethene(sim)	2.656	61	953	0.046	ppbv	#	74
91) Cis-1,2-Dichloroethene...	5.098	61	843	0.049	ppbv	#	77
97) Trichloroethene(sim)	7.272	130	928m	0.057	ppbv		79
103) Tetrachloroethene(sim)	9.605	166	994	0.057	ppbv		92
107) m,p-Xylene(sim)	11.194	91	3221	0.108	ppbv	#	97
113) 1,4-Dichlorobenzene(sim)	13.717	146	1172	0.050	ppbv		98
118) 1,2,4-Trichlorobenzene...	15.254	180	636	0.049	ppbv		97

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_12.D
Acq On : 21 Aug 2020 2:49 pm
Operator : Keith
Client ID : ICAL 0.05
Lab ID : 0.05
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Aug 24 09:03:16 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:02:39 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_13.D
Acq On : 21 Aug 2020 3:22 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 11 Sample Multiplier: 1

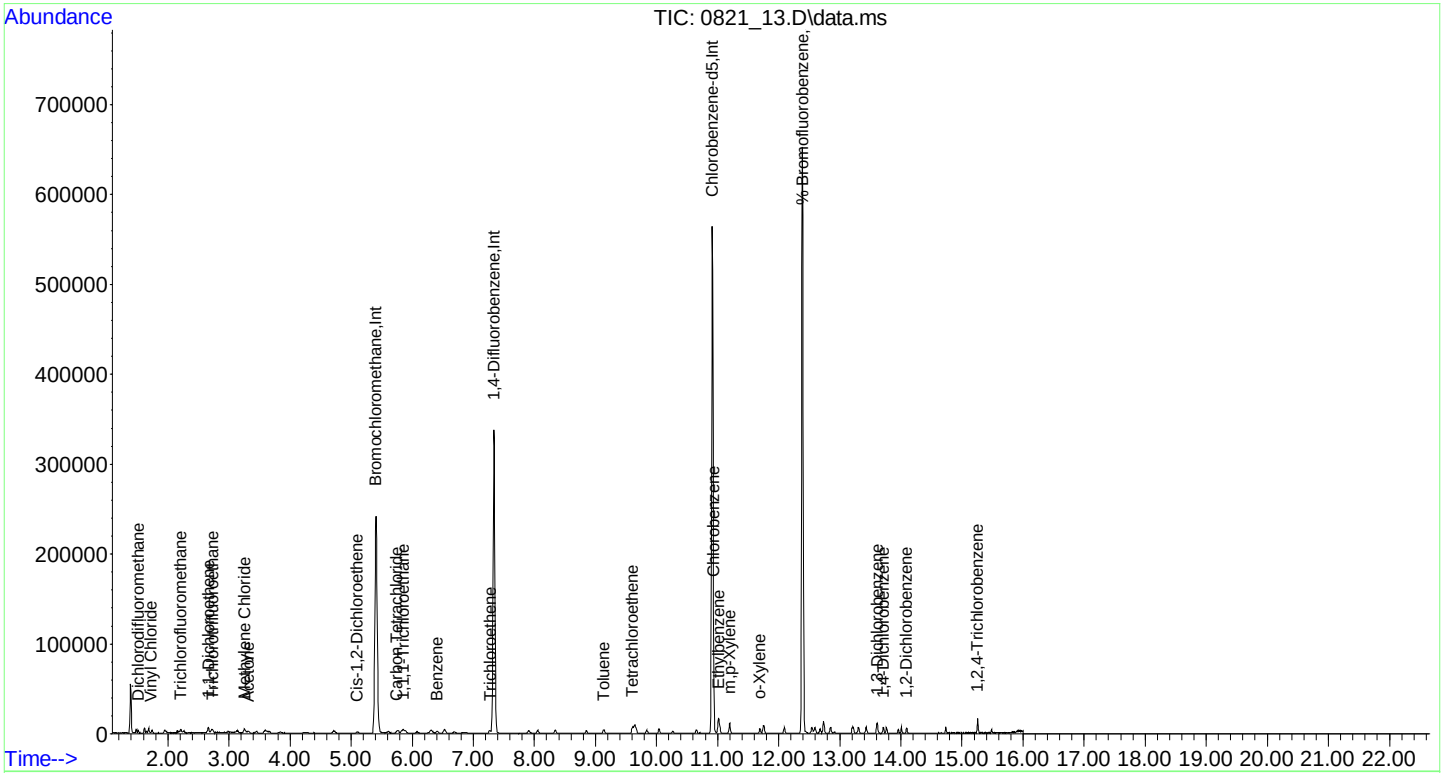
Quant Time: Aug 24 09:03:49 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:03:39 2020
Response via : Initial Calibration

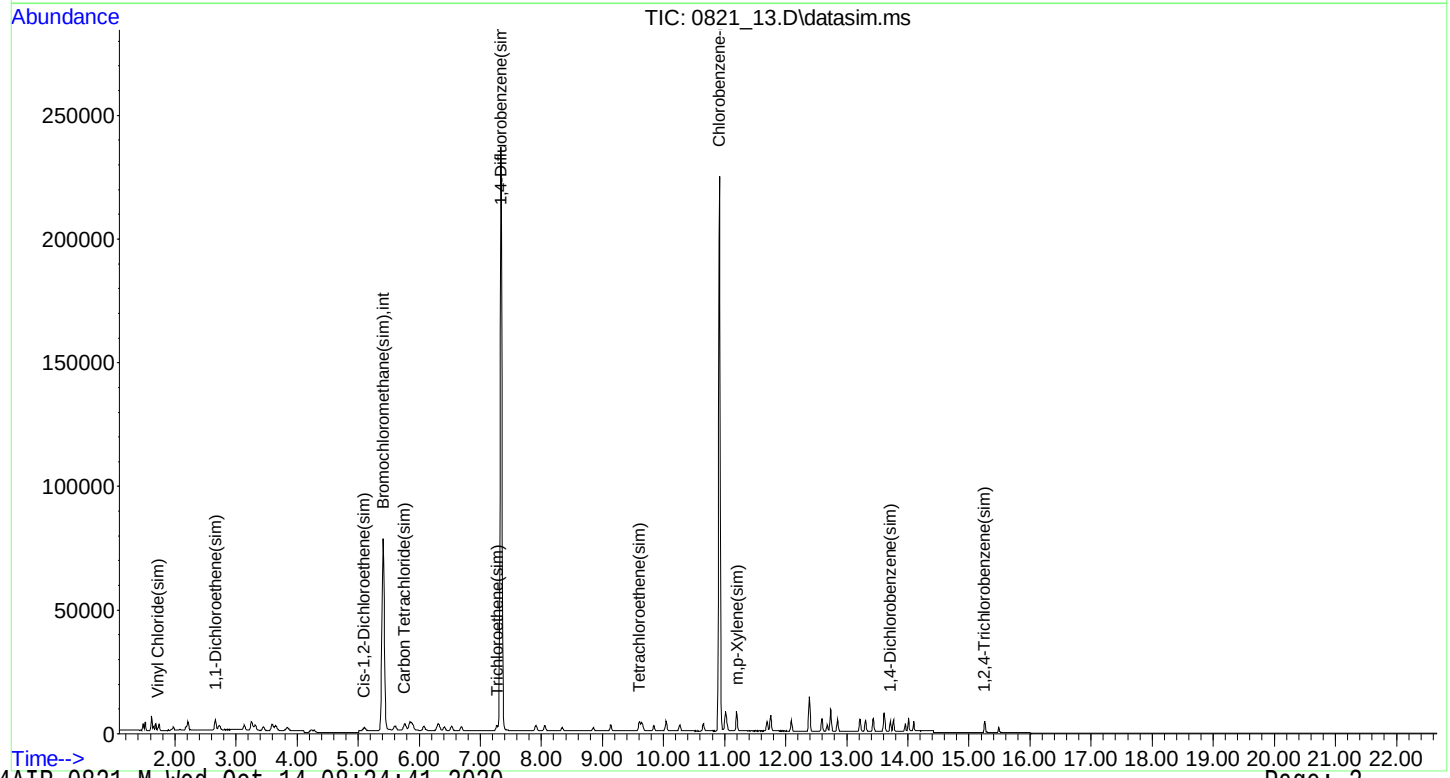
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	95594	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.338	114	285802	10.000	ng		0.00
53) Chlorobenzene-d5	10.913	82	128747	10.000	ng		0.00
80) Bromochloromethane(sim)	5.411	130	104665	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	329453	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	140614	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.387	95	196286	9.745	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.50%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	2140	0.124	ppbv	#	97
6) Vinyl Chloride	1.725	62	1008	0.107	ppbv		100
12) Acetone	3.320	43	4334	0.154	ppbv		96
13) Trichlorofluoromethane	2.211	101	2801	0.097	ppbv	#	98
16) 1,1-Dichloroethene	2.663	61	1891	0.101	ppbv		98
17) Methylene Chloride	3.252	49	3290	0.152	ppbv		96
21) Trichlorotrifluoroethane	2.732	101	1931	0.101	ppbv		95
26) Cis-1,2-Dichloroethene	5.098	61	1805	0.114	ppbv	#	85
32) 1,1,1-Trichloroethane	5.855	97	2785	0.120	ppbv		92
33) Benzene	6.414	78	1860	0.102	ppbv	#	83
34) Carbon Tetrachloride	5.754	117	3095	0.111	ppbv		93
39) Trichloroethene	7.277	130	1418	0.100	ppbv		96
48) Toluene	9.136	91	2837	0.106	ppbv		92
52) Tetrachloroethene	9.605	166	1740	0.104	ppbv		95
55) Chlorobenzene	10.933	112	2716	0.106	ppbv	#	17
56) Ethylbenzene	11.016	91	3997	0.108	ppbv		99
57) m,p-Xylene	11.201	91	5817	0.206	ppbv		91
61) o-Xylene	11.695	91	3300	0.107	ppbv		94
71) 1,3-Dichlorobenzene	13.620	146	2489	0.103	ppbv	#	87
72) 1,4-Dichlorobenzene	13.711	146	2359	0.101	ppbv		100
75) 1,2-Dichlorobenzene	14.093	146	2165	0.111	ppbv		97
77) 1,2,4-Trichlorobenzene	15.253	180	829	0.087	ppbv	#	74
82] Vinyl Chloride(sim)	1.721	62	1044	0.095	ppbv		96
86] Carbon Tetrachloride(sim)	5.764	117	3122	0.095	ppbv		98
87] 1,1-Dichloroethene(sim)	2.663	61	1891	0.091	ppbv		96
91] Cis-1,2-Dichloroethene...	5.098	61	1805	0.106	ppbv	#	75
97] Trichloroethene(sim)	7.277	130	1418	0.087	ppbv		96
103] Tetrachloroethene(sim)	9.605	166	1740	0.100	ppbv	#	77
107] m,p-Xylene(sim)	11.201	91	5817	0.192	ppbv	#	92
113] 1,4-Dichlorobenzene(sim)	13.711	146	2359	0.099	ppbv		100
118] 1,2,4-Trichlorobenzene...	15.256	180	1181	0.090	ppbv		98

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_13.D
Acq On : 21 Aug 2020 3:22 pm
Operator : Keith
Client ID : ICAL 0.1
Lab ID : 0.10
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 24 09:03:49 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:03:39 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_14.D
Acq On : 21 Aug 2020 3:59 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 24 08:59:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:03 2020
Response via : Initial Calibration

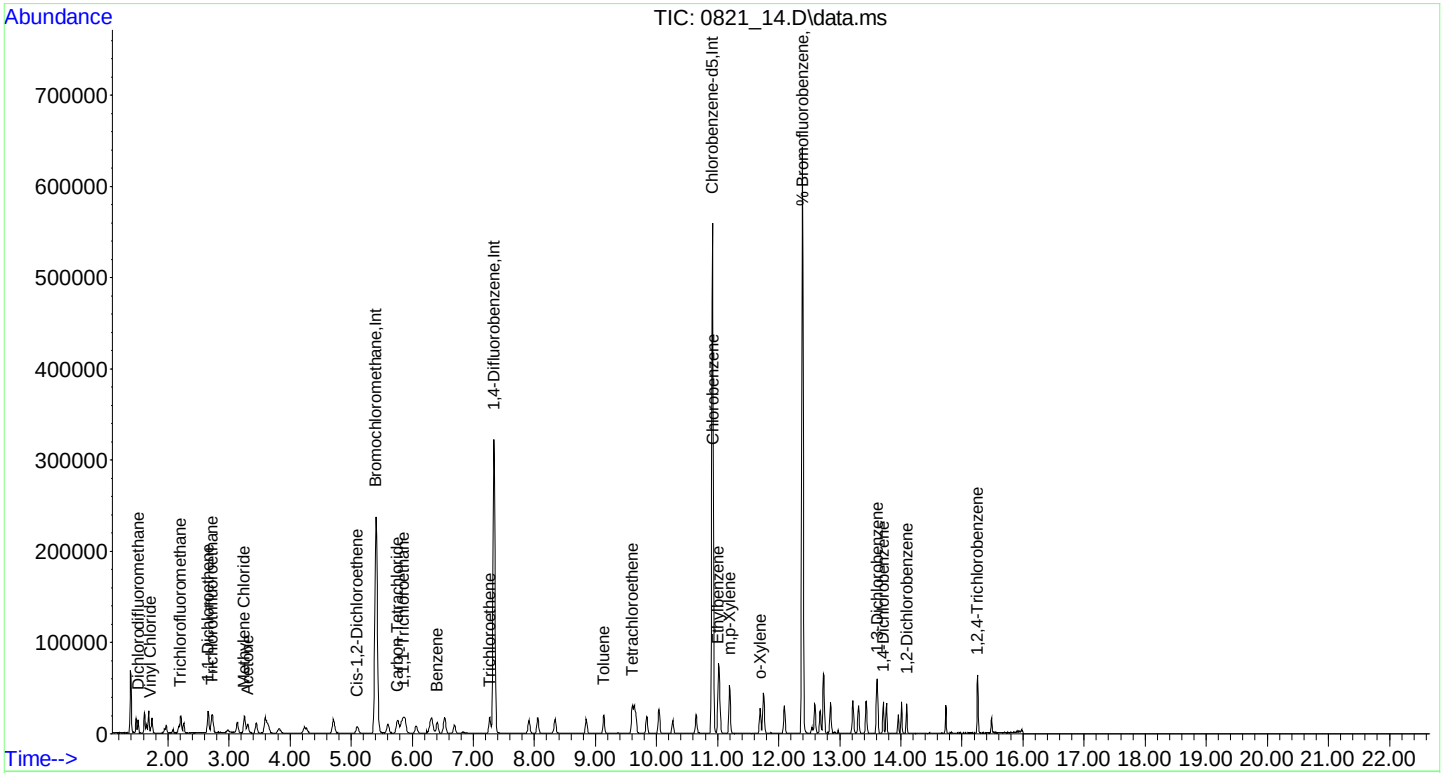
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.403	130	93235	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	281434	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	127016	10.000	ng		0.00
80) Bromochloromethane(sim)	5.413	130	101878	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	321739	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	138903	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	194392	9.747	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.50%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	8086	0.480	ppbv	#	97
6) Vinyl Chloride	1.718	62	4505	0.491	ppbv		95
12) Acetone	3.306	43	16379	0.597	ppbv		92
13) Trichlorofluoromethane	2.204	101	14744	0.522	ppbv		99
16) 1,1-Dichloroethene	2.656	61	9335	0.513	ppbv		97
17) Methylene Chloride	3.245	49	11347	0.539	ppbv		96
21) Trichlorotrifluoroethane	2.725	101	10038	0.540	ppbv		96
26) Cis-1,2-Dichloroethene	5.100	61	7839	0.507	ppbv		95
32) 1,1,1-Trichloroethane	5.857	97	12063	0.531	ppbv		98
33) Benzene	6.409	78	9280	0.521	ppbv		92
34) Carbon Tetrachloride	5.756	117	14119	0.518	ppbv		99
39) Trichloroethene	7.272	130	7110	0.510	ppbv		97
48) Toluene	9.138	91	13019	0.493	ppbv		96
52) Tetrachloroethene	9.608	166	8243	0.503	ppbv		99
55) Chlorobenzene	10.929	112	12209	0.485	ppbv	#	80
56) Ethylbenzene	11.011	91	17602	0.481	ppbv		96
57) m,p-Xylene	11.196	91	27491	0.986	ppbv		99
61) o-Xylene	11.697	91	14606	0.482	ppbv		97
71) 1,3-Dichlorobenzene	13.616	146	11080	0.465	ppbv		96
72) 1,4-Dichlorobenzene	13.713	146	10792	0.467	ppbv		99
75) 1,2-Dichlorobenzene	14.096	146	9090	0.472	ppbv		98
77) 1,2,4-Trichlorobenzene	15.252	180	4136	0.438	ppbv	#	91
82] Vinyl Chloride(sim)	1.721	62	5016	0.468	ppbv		99
86] Carbon Tetrachloride(sim)	5.766	117	15069	0.471	ppbv		99
87] 1,1-Dichloroethene(sim)	2.656	61	9335	0.464	ppbv		97
91] Cis-1,2-Dichloroethene...	5.100	61	7783	0.469	ppbv		95
97] Trichloroethene(sim)	7.272	130	7110	0.448	ppbv		97
103] Tetrachloroethene(sim)	9.608	166	8243	0.487	ppbv		99
107] m,p-Xylene(sim)	11.196	91	27491	0.920	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.713	146	10792	0.458	ppbv		98
118] 1,2,4-Trichlorobenzene...	15.255	180	5326	0.413	ppbv		98

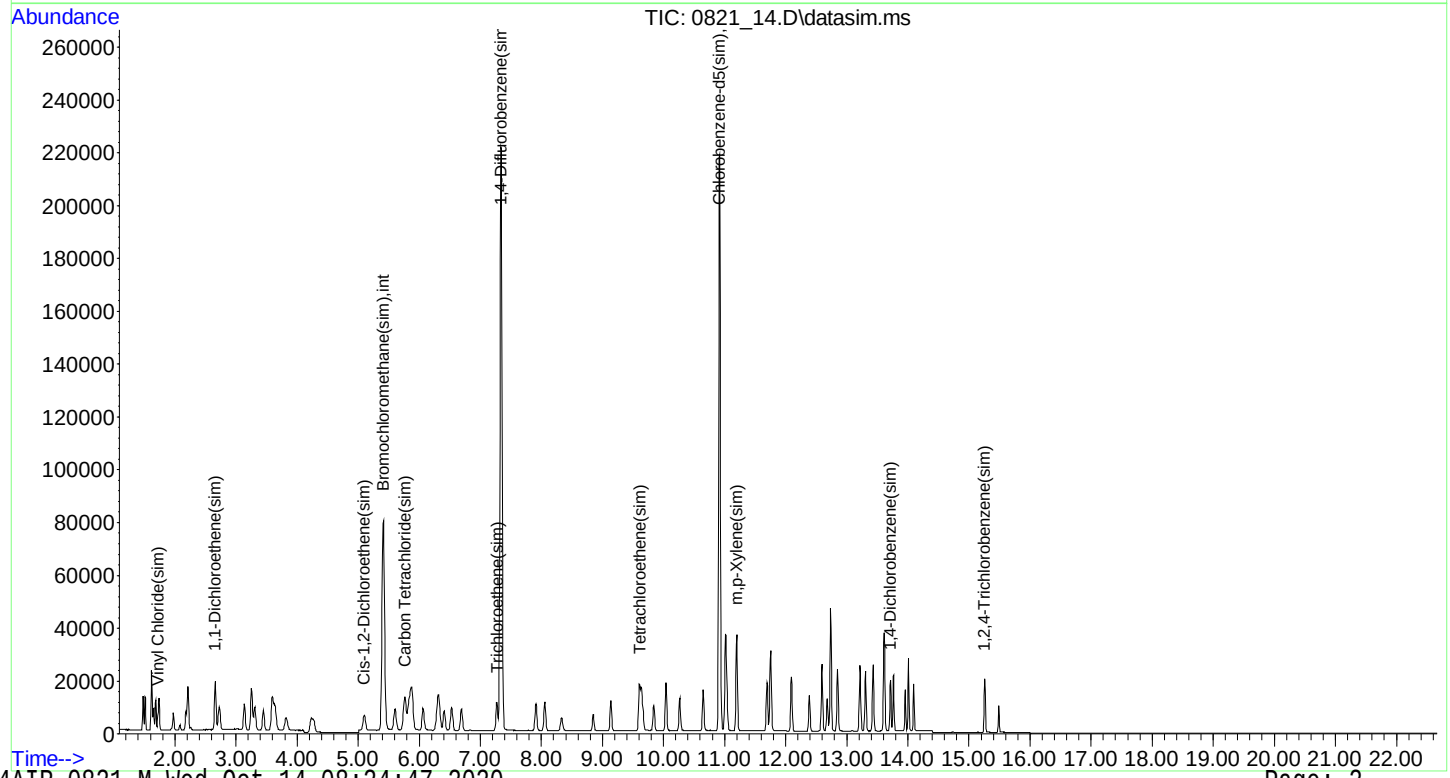
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_14.D
Acq On : 21 Aug 2020 3:59 pm
Operator : Keith
Client ID : ICAL 0.5
Lab ID : 0.5
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Aug 24 08:59:26 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:59:03 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_15.D
Acq On : 21 Aug 2020 4:36 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 13 Sample Multiplier: 1

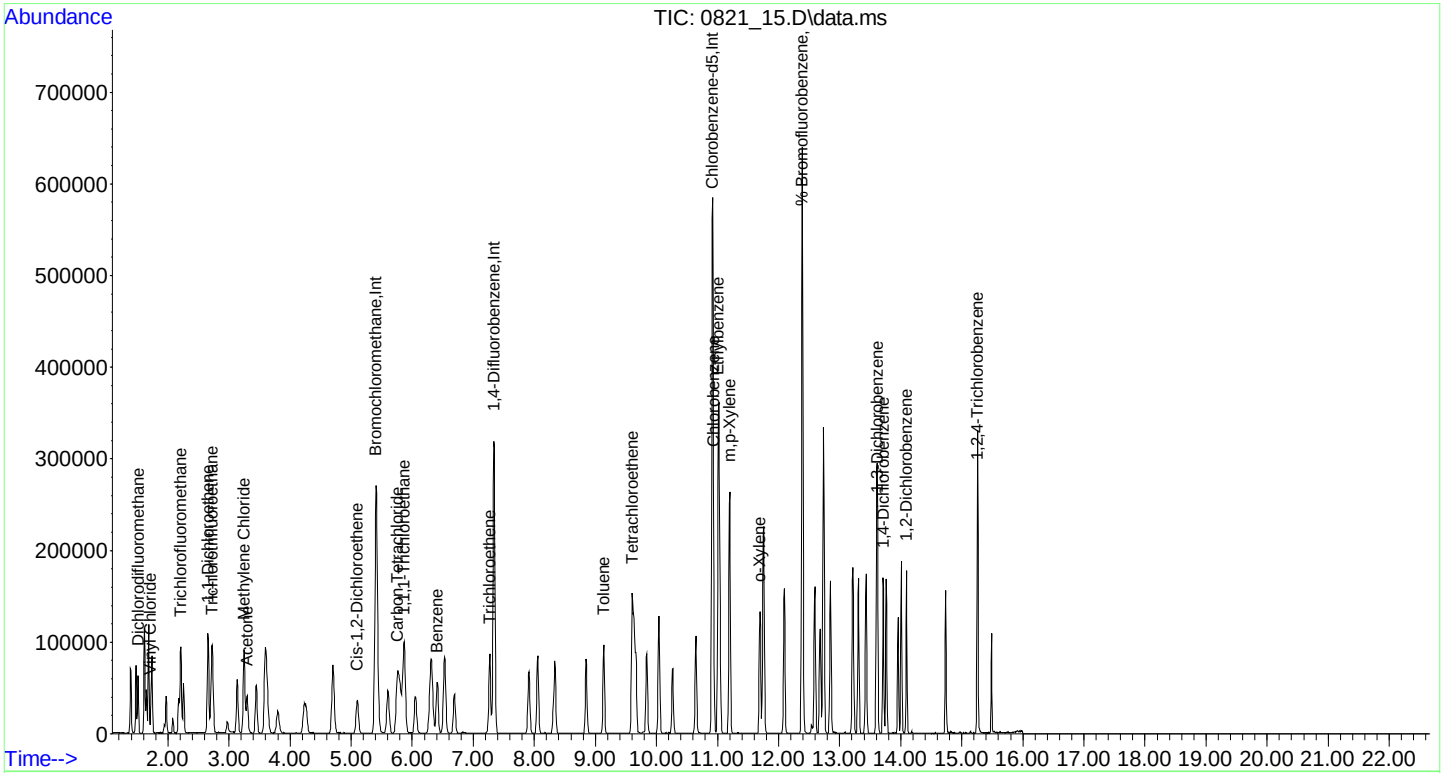
Quant Time: Aug 24 08:56:03 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration

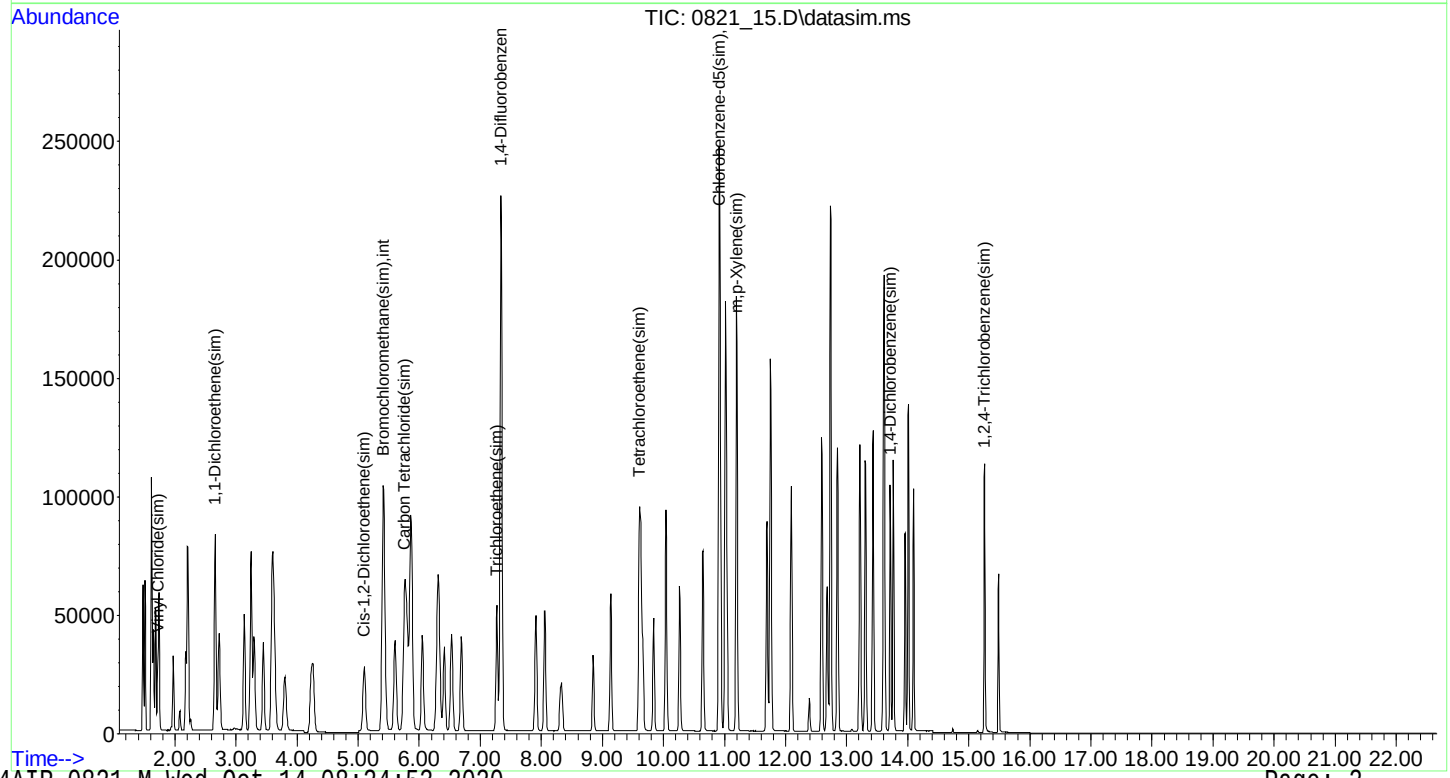
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.407	130	92880	10.000	ng	-0.01
36) 1,4-Difluorobenzene	7.338	114	275668	10.000	ng	0.00
53) Chlorobenzene-d5	10.913	82	128123	10.000	ng	0.00
80) Bromochloromethane(sim)	5.410	130	101644	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.341	114	316521	10.000	ng	0.00
104) Chlorobenzene-d5(sim)	10.916	82	137895	10.000	ng	# 0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	12.387	95	196127	9.957	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.60%		
Target Compounds						Qvalue
3) Dichlorodifluoromethane	1.512	85	36817	2.195	ppbv	99
6) Vinyl Chloride	1.718	62	21040	2.301	ppbv	98
12) Acetone	3.299	43	58711	2.147	ppbv	92
13) Trichlorofluoromethane	2.211	101	71226	2.532	ppbv	98
16) 1,1-Dichloroethene	2.656	61	45432	2.507	ppbv	90
17) Methylene Chloride	3.244	49	49607	2.364	ppbv#	84
21) Trichlorotrifluoroethane	2.725	101	45758	2.473	ppbv	98
26) Cis-1,2-Dichloroethene	5.098	61	36586	2.375	ppbv	91
32) 1,1,1-Trichloroethane	5.862	97	54865	2.424	ppbv	100
33) Benzene	6.407	78	42587	2.399	ppbv#	85
34) Carbon Tetrachloride	5.761	117	67467	2.486	ppbv	99
39) Trichloroethene	7.269	130	33079	2.421	ppbv	98
48) Toluene	9.136	91	61621	2.381	ppbv	98
52) Tetrachloroethene	9.605	166	38376	2.389	ppbv	95
55) Chlorobenzene	10.933	112	58914	2.319	ppbv	94
56) Ethylbenzene	11.016	91	86547	2.346	ppbv	98
57) m,p-Xylene	11.201	91	137225	4.878	ppbv	97
61) o-Xylene	11.695	91	71774	2.349	ppbv	96
71) 1,3-Dichlorobenzene	13.620	146	58743	2.445	ppbv	98
72) 1,4-Dichlorobenzene	13.711	146	55739	2.391	ppbv	98
75) 1,2-Dichlorobenzene	14.094	146	47496	2.444	ppbv	97
77) 1,2,4-Trichlorobenzene	15.251	180	26359	2.768	ppbv	97
82] Vinyl Chloride(sim)	1.721	62	24332	2.274	ppbv	99
86] Carbon Tetrachloride(sim)	5.764	117	73632	2.307	ppbv	100
87] 1,1-Dichloroethene(sim)	2.656	61	45432	2.263	ppbv	90
91] Cis-1,2-Dichloroethene...	5.098	61	36586	2.208	ppbv	91
97] Trichloroethene(sim)	7.269	130	33079	2.121	ppbv	98
103] Tetrachloroethene(sim)	9.605	166	38444	2.309	ppbv	96
107] m,p-Xylene(sim)	11.201	91	137212	4.623	ppbv	96
113] 1,4-Dichlorobenzene(sim)	13.711	146	55699	2.382	ppbv	98
118] 1,2,4-Trichlorobenzene...	15.254	180	31741	2.479	ppbv	98

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_15.D
Acq On : 21 Aug 2020 4:36 pm
Operator : Keith
Client ID : ICAL 2.5
Lab ID : 2.5
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Aug 24 08:56:03 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Aug 11 08:30:56 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_16.D
Acq On : 21 Aug 2020 5:09 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 14 Sample Multiplier: 1

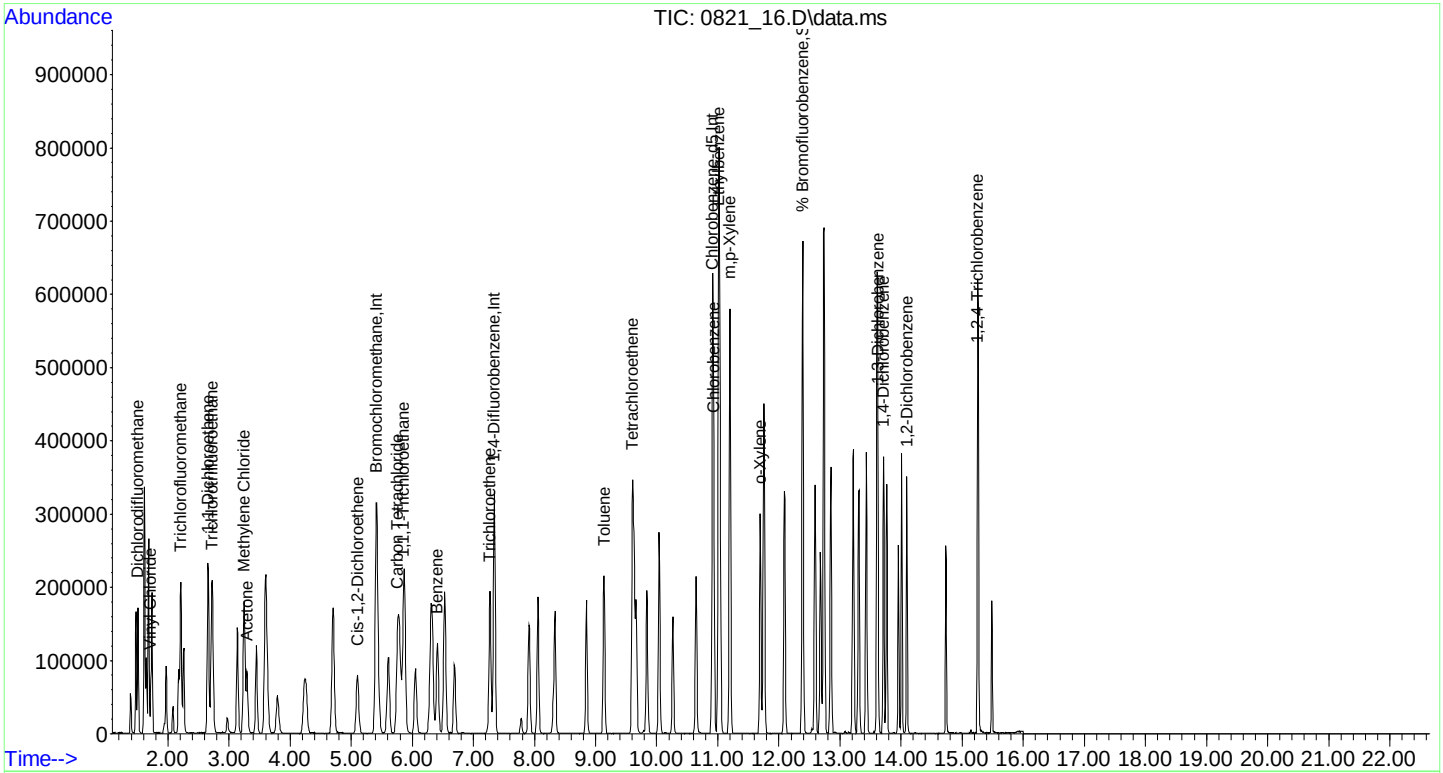
Quant Time: Aug 24 08:56:58 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:56:50 2020
Response via : Initial Calibration

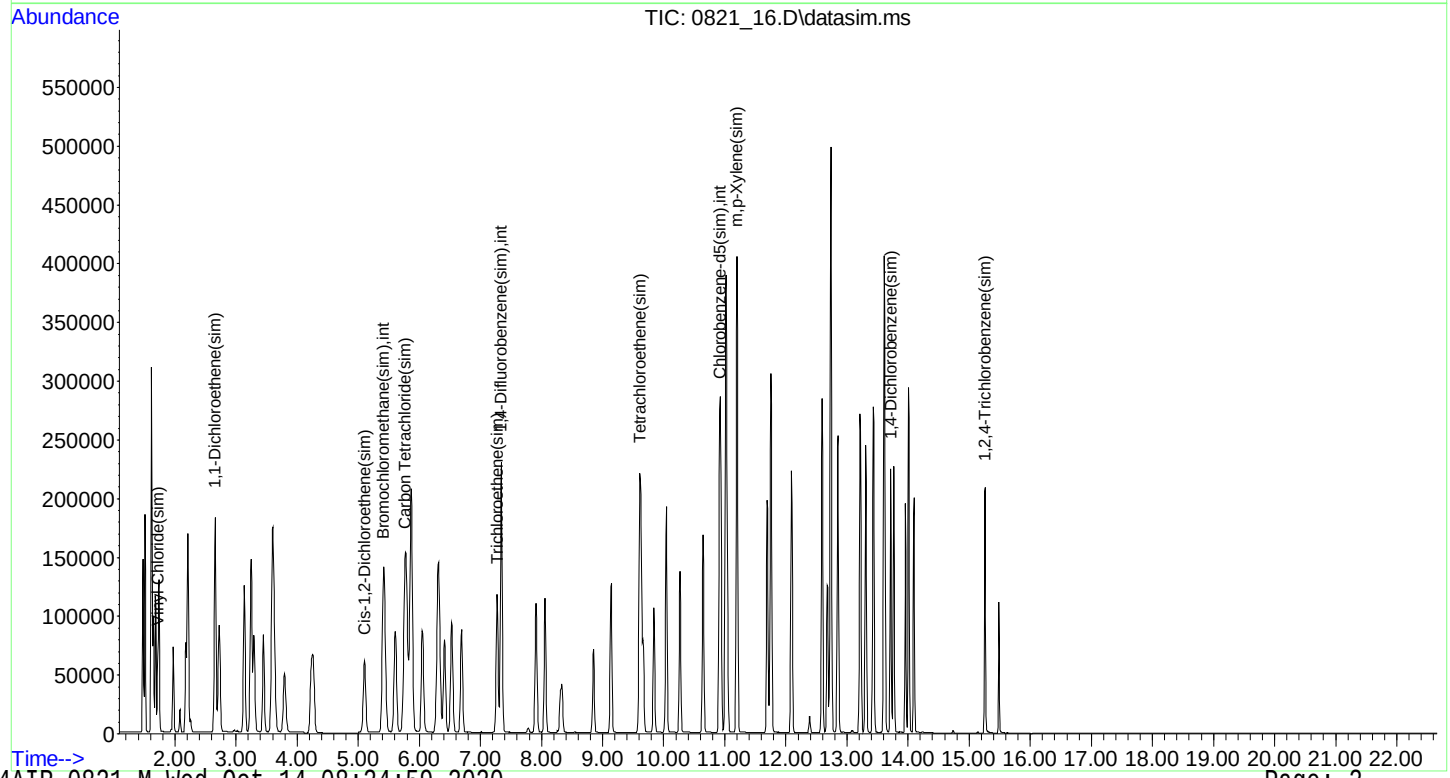
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	91703	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	278278	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	126820	10.000	ng		0.00
80) Bromochloromethane(sim)	5.413	130	102068	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	318697	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	139448	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	201472	10.378	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.80%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	108182	6.531	ppbv		99
6) Vinyl Chloride	1.718	62	49409	5.473	ppbv		99
12) Acetone	3.292	43	125093	4.632	ppbv		99
13) Trichlorofluoromethane	2.211	101	158083	5.693	ppbv		98
16) 1,1-Dichloroethene	2.656	61	99287	5.549	ppbv		98
17) Methylene Chloride	3.245	49	106628	5.147	ppbv		99
21) Trichlorotrifluoroethane	2.725	101	99992	5.474	ppbv		99
26) Cis-1,2-Dichloroethene	5.107	61	82160	5.401	ppbv		99
32) 1,1,1-Trichloroethane	5.857	97	123463	5.525	ppbv		97
33) Benzene	6.409	78	94585	5.397	ppbv		98
34) Carbon Tetrachloride	5.763	117	149392	5.575	ppbv		96
39) Trichloroethene	7.271	130	72995	5.291	ppbv		98
48) Toluene	9.138	91	136788	5.236	ppbv		100
52) Tetrachloroethene	9.608	166	84729	5.226	ppbv		99
55) Chlorobenzene	10.935	112	131686	5.238	ppbv		97
56) Ethylbenzene	11.018	91	194713	5.333	ppbv		100
57) m,p-Xylene	11.196	91	305253	10.962	ppbv		99
61) o-Xylene	11.697	91	161465	5.339	ppbv		100
71) 1,3-Dichlorobenzene	13.622	146	127717	5.370	ppbv		98
72) 1,4-Dichlorobenzene	13.713	146	121761	5.276	ppbv		100
75) 1,2-Dichlorobenzene	14.096	146	99891	5.192	ppbv		99
77) 1,2,4-Trichlorobenzene	15.252	180	43948	4.663	ppbv		99
82] Vinyl Chloride(sim)	1.721	62	55474	5.164	ppbv		100
86] Carbon Tetrachloride(sim)	5.766	117	159792	4.985	ppbv		100
87] 1,1-Dichloroethene(sim)	2.656	61	99287	4.925	ppbv		99
91] Cis-1,2-Dichloroethene...	5.107	61	82160	4.938	ppbv		99
97] Trichloroethene(sim)	7.271	130	72995	4.648	ppbv		98
103] Tetrachloroethene(sim)	9.608	166	84729	5.054	ppbv		99
107] m,p-Xylene(sim)	11.196	91	305253	10.170	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.713	146	122515	5.180	ppbv		99
118] 1,2,4-Trichlorobenzene...	15.255	180	53880	4.161	ppbv		99

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_16.D
Acq On : 21 Aug 2020 5:09 pm
Operator : Keith
Client ID : ICAL 5
Lab ID : 5.0
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 24 08:56:58 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:56:50 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_17.D
Acq On : 21 Aug 2020 6:42 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 24 08:57:19 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:10 2020
Response via : Initial Calibration

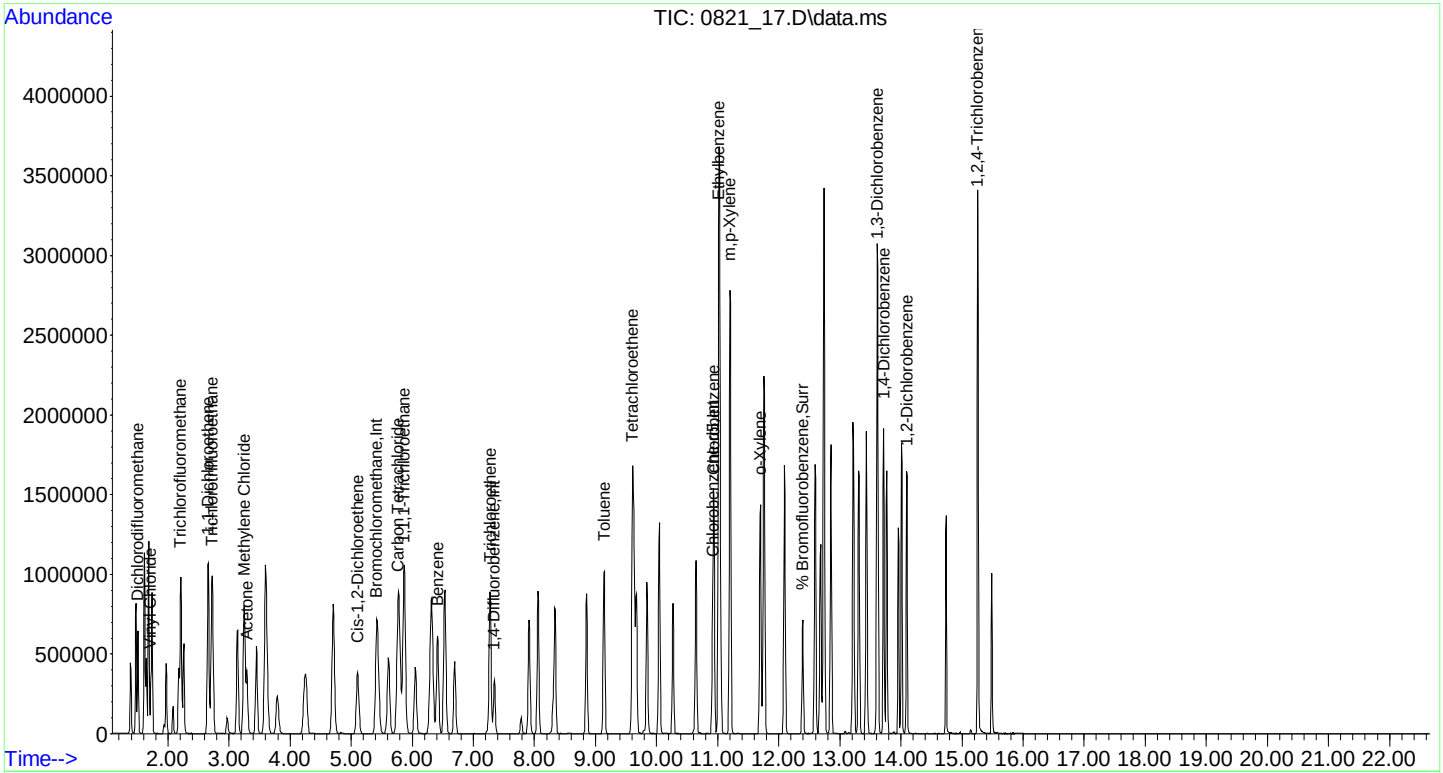
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.415	130	98597	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.345	114	288204	10.000	ng		0.00
53) Chlorobenzene-d5	10.920	82	132631	10.000	ng		0.00
80) Bromochloromethane(sim)	5.418	130	109445	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.348	114	327777	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.916	82	144716	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.393	95	217634	10.521	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.20%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	396591	22.268	ppbv		99
6) Vinyl Chloride	1.718	62	240950	24.824	ppbv		100
12) Acetone	3.292	43	664064	22.871	ppbv		94
13) Trichlorofluoromethane	2.211	101	745091	24.956	ppbv		98
16) 1,1-Dichloroethene	2.656	61	474528	24.667	ppbv		100
17) Methylene Chloride	3.251	49	486138	21.827	ppbv		99
21) Trichlorotrifluoroethane	2.725	101	473046	24.086	ppbv		100
26) Cis-1,2-Dichloroethene	5.105	61	396995	24.273	ppbv		100
32) 1,1,1-Trichloroethane	5.862	97	565515	23.540	ppbv		98
33) Benzene	6.413	78	457706	24.293	ppbv		98
34) Carbon Tetrachloride	5.768	117	693744	24.080	ppbv		97
39) Trichloroethene	7.276	130	351431	24.598	ppbv		99
48) Toluene	9.143	91	677693	25.047	ppbv		100
52) Tetrachloroethene	9.605	166	418721	24.935	ppbv		99
55) Chlorobenzene	10.940	112	658844	25.057	ppbv		99
56) Ethylbenzene	11.016	91	953625	24.974	ppbv		100
57) m,p-Xylene	11.201	91	1525361	52.376	ppbv		99
61) o-Xylene	11.702	91	808532	25.564	ppbv		99
71) 1,3-Dichlorobenzene	13.620	146	633197	25.458	ppbv		99
72) 1,4-Dichlorobenzene	13.717	146	624885	25.889	ppbv		99
75) 1,2-Dichlorobenzene	14.100	146	515438	25.617	ppbv		100
77) 1,2,4-Trichlorobenzene	15.256	180	273999	27.796	ppbv		98
82) Vinyl Chloride(sim)	1.721	62	267847	23.252	ppbv		99
86) Carbon Tetrachloride(sim)	5.771	117	757094	22.028	ppbv		100
87) 1,1-Dichloroethene(sim)	2.656	61	474528	21.953	ppbv		99
91) Cis-1,2-Dichloroethene...	5.105	61	397042	22.256	ppbv		100
97) Trichloroethene(sim)	7.276	130	351357	21.753	ppbv		99
103) Tetrachloroethene(sim)	9.605	166	418531	24.275	ppbv		99
107) m,p-Xylene(sim)	11.201	91	1525508	48.975	ppbv		99
113) 1,4-Dichlorobenzene(sim)	13.717	146	624441	25.441	ppbv		99
118) 1,2,4-Trichlorobenzene...	15.254	180	322295	23.982	ppbv		99

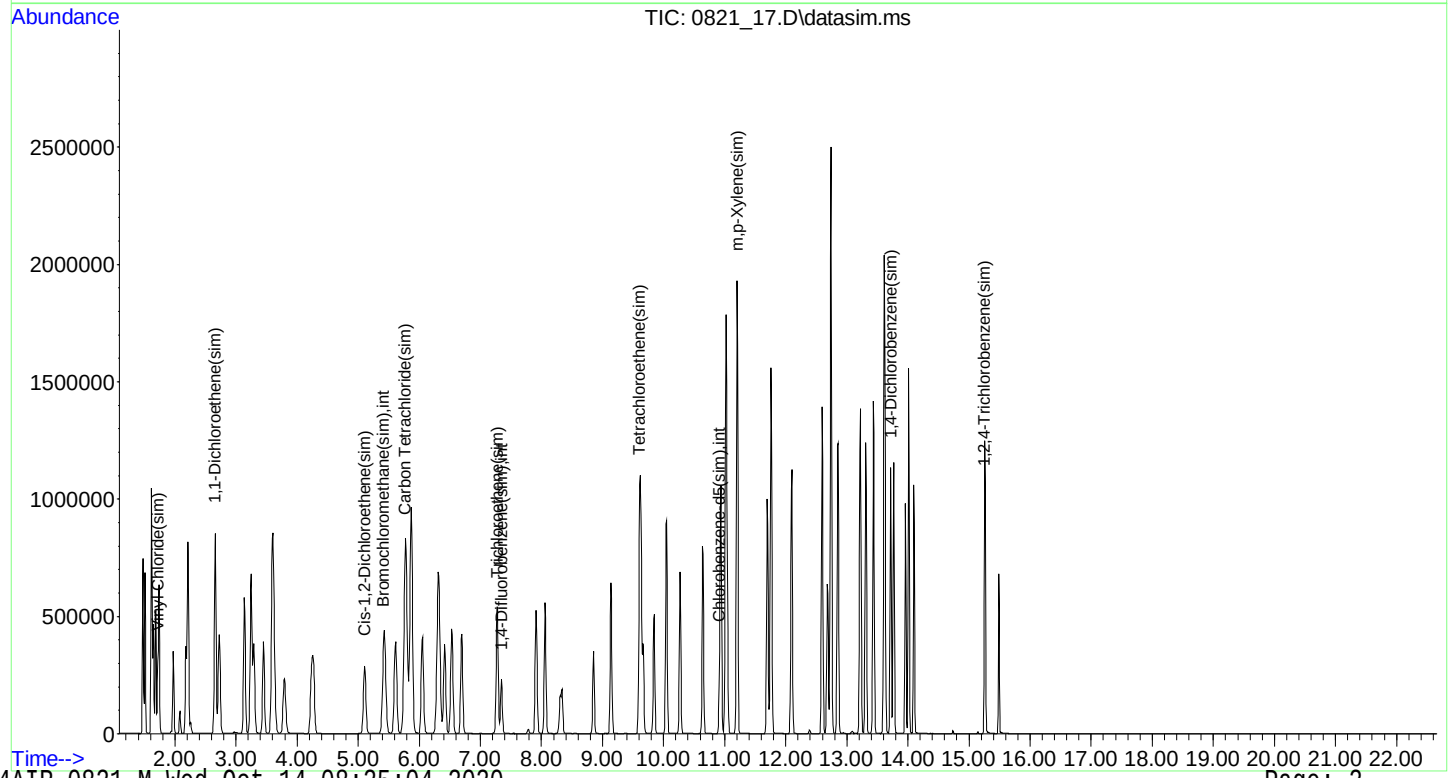
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_17.D
Acq On : 21 Aug 2020 6:42 pm
Operator : Keith
Client ID : ICAL 25
Lab ID : 25
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 24 08:57:19 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:10 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_18.D
Acq On : 21 Aug 2020 7:22 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 24 08:57:46 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:34 2020
Response via : Initial Calibration

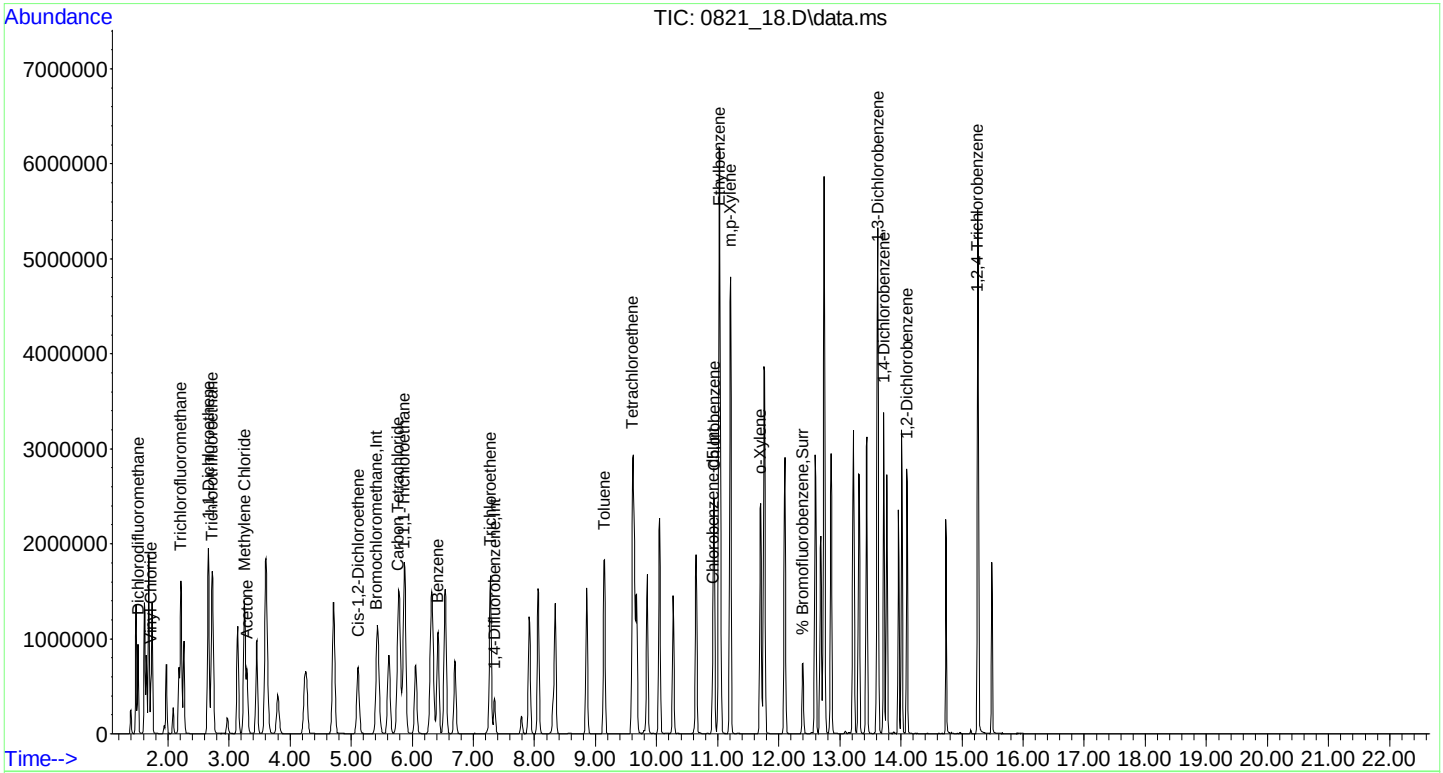
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.417	130	118862	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.347	114	326095	10.000	ng		0.00
53) Chlorobenzene-d5	10.922	82	149227	10.000	ng		0.00
80) Bromochloromethane(sim)	5.420	130	130108	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.350	114	374279	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	162076	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	236751	9.998	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	570767	26.584	ppbv		99
6) Vinyl Chloride	1.725	62	416748	35.615	ppbv		99
12) Acetone	3.292	43	1109838	31.707	ppbv		98
13) Trichlorofluoromethane	2.211	101	1251872	34.781	ppbv		99
16) 1,1-Dichloroethene	2.663	61	826918	35.657	ppbv		97
17) Methylene Chloride	3.251	49	823815	30.682	ppbv		95
21) Trichlorotrifluoroethane	2.725	101	839928	35.475	ppbv		99
26) Cis-1,2-Dichloroethene	5.114	61	718472	36.439	ppbv		97
32) 1,1,1-Trichloroethane	5.864	97	993740	34.312	ppbv		99
33) Benzene	6.422	78	856029	37.687	ppbv		96
34) Carbon Tetrachloride	5.770	117	1210798	34.862	ppbv		100
39) Trichloroethene	7.278	130	655042	40.521	ppbv		100
48) Toluene	9.146	91	1249943	40.829	ppbv		99
52) Tetrachloroethene	9.608	166	766320	40.333	ppbv		99
55) Chlorobenzene	10.942	112	1195331	40.405	ppbv		99
56) Ethylbenzene	11.025	91	1697715	39.517	ppbv		100
57) m,p-Xylene	11.210	91	2664571	81.317	ppbv		99
61) o-Xylene	11.704	91	1412565	39.695	ppbv		99
71) 1,3-Dichlorobenzene	13.622	146	1111009	39.701	ppbv		100
72) 1,4-Dichlorobenzene	13.719	146	1083343	39.892	ppbv		100
75) 1,2-Dichlorobenzene	14.096	146	871689	38.505	ppbv		99
77) 1,2,4-Trichlorobenzene	15.253	180	485738	43.796	ppbv		98
82] Vinyl Chloride(sim)	1.721	62	460949	33.660	ppbv		100
86] Carbon Tetrachloride(sim)	5.773	117	1304116	31.918	ppbv		100
87] 1,1-Dichloroethene(sim)	2.663	61	826918	32.179	ppbv		97
91] Cis-1,2-Dichloroethene...	5.114	61	719005	33.903	ppbv		97
97] Trichloroethene(sim)	7.278	130	654968	35.513	ppbv		100
103] Tetrachloroethene(sim)	9.608	166	766270	38.922	ppbv		99
107] m,p-Xylene(sim)	11.210	91	2665405	76.405	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.719	146	1083343	39.410	ppbv		100
118] 1,2,4-Trichlorobenzene...	15.256	180	562584	37.378	ppbv		99

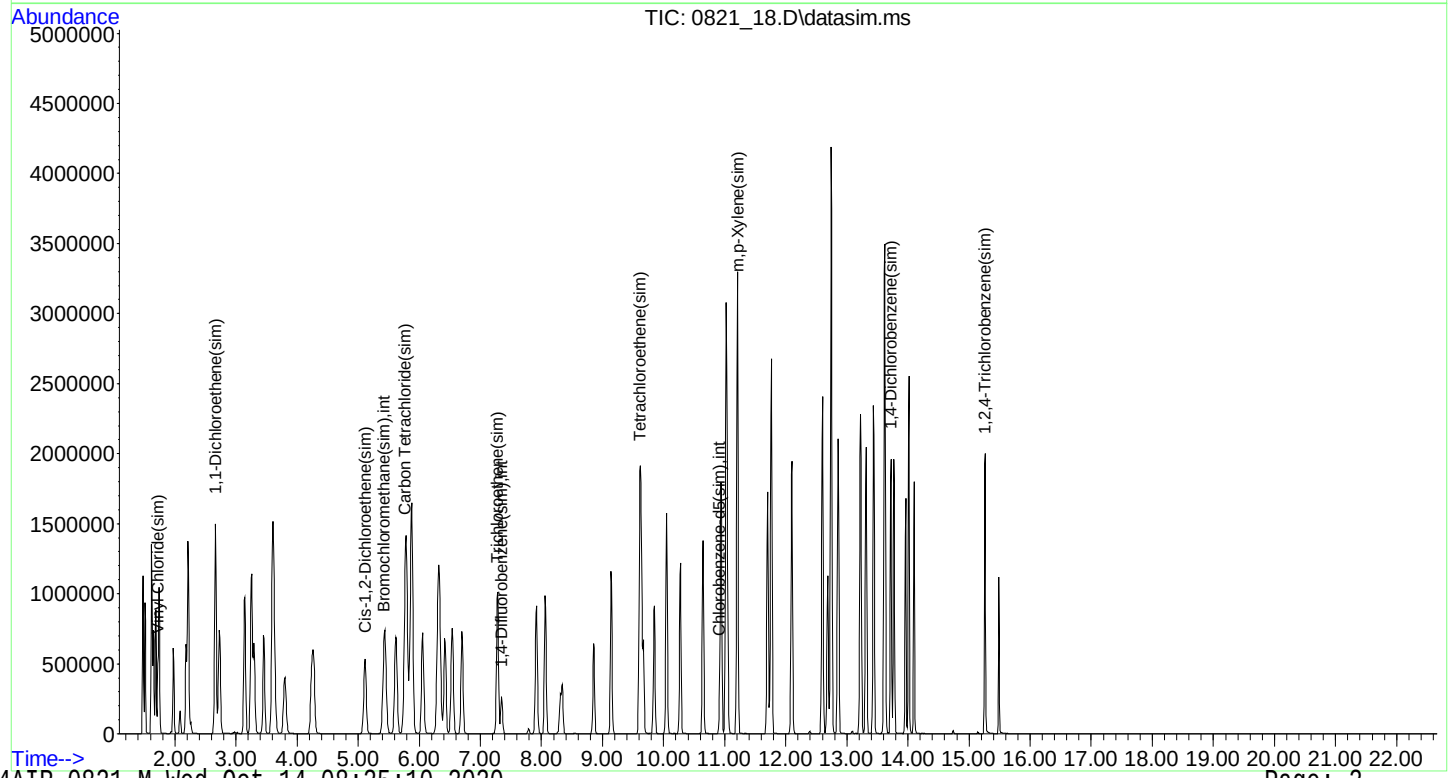
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_18.D
Acq On : 21 Aug 2020 7:22 pm
Operator : Keith
Client ID : ICAL 40
Lab ID : 40
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 24 08:57:46 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 08:57:34 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_20.D
Acq On : 21 Aug 2020 8:28 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1.0ppb cc
ALS Vial : 18 Sample Multiplier: 1

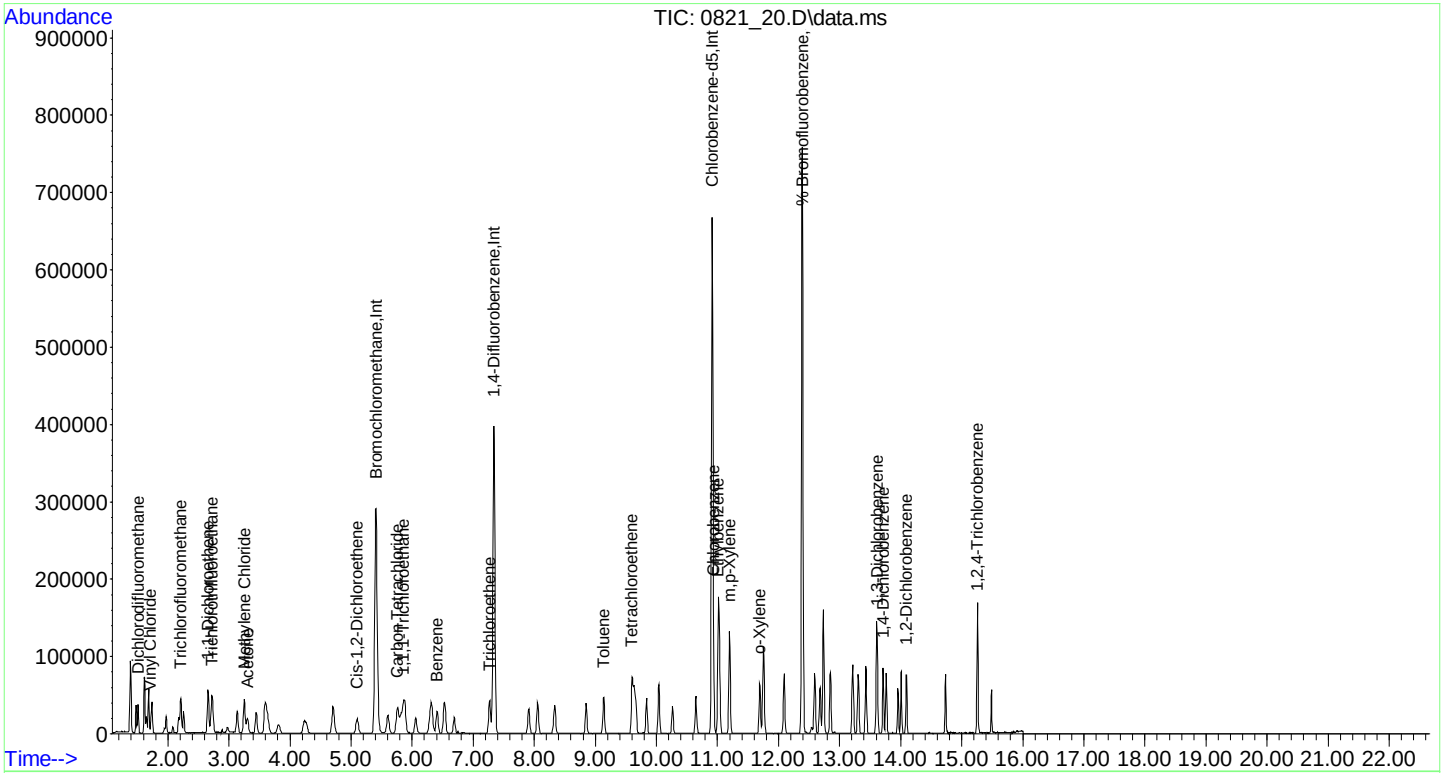
Quant Time: Aug 24 09:15:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration

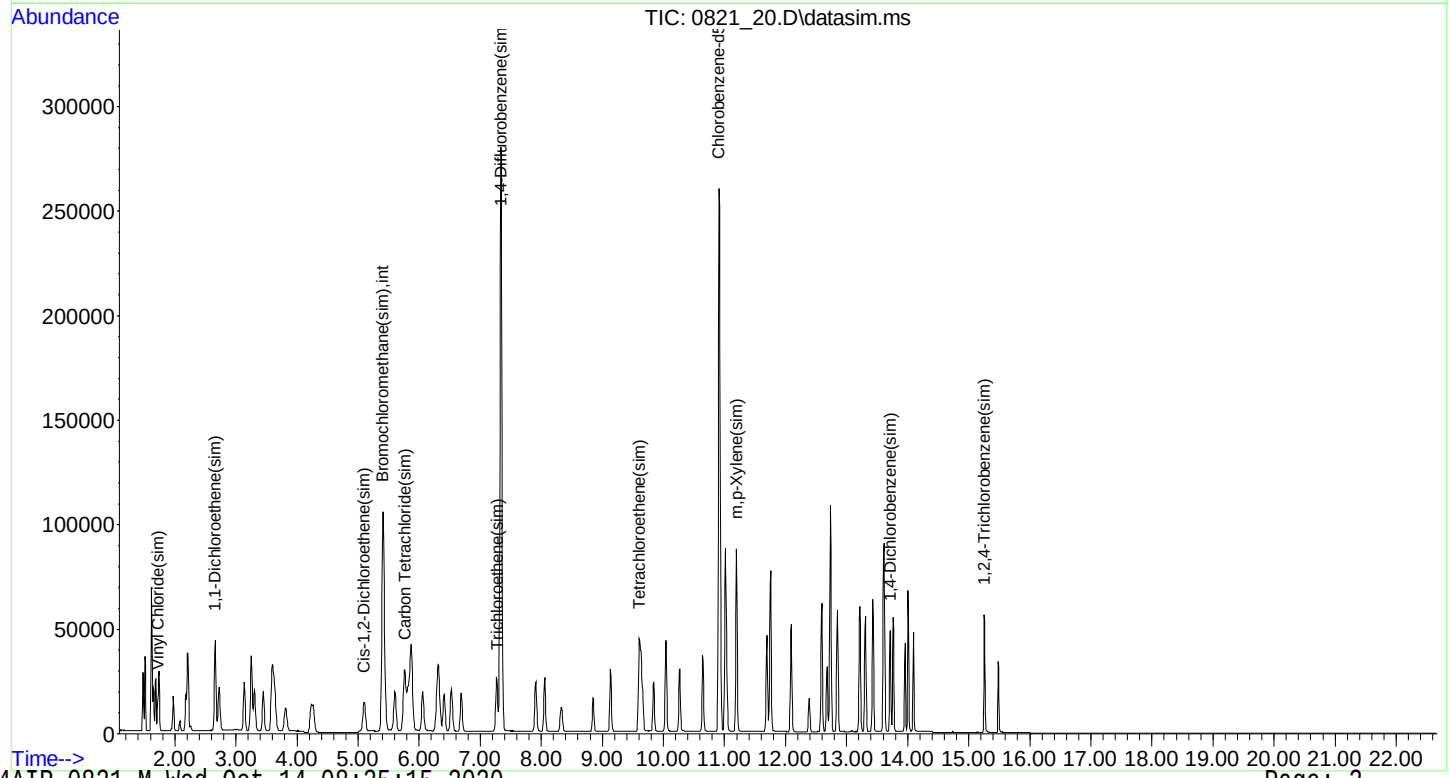
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	117268	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	359263	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	156114	10.000	ng		0.00
80) Bromochloromethane(sim)	5.406	130	127421	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	405943	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.911	82	170232	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	236345	9.708	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.10%			
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.513	85	22201	1.048	ppbv		97
6) Vinyl Chloride	1.718	62	11842	1.026	ppbv		100
12) Acetone	3.306	43	34220	0.991	ppbv		93
13) Trichlorofluoromethane	2.211	101	34680	0.977	ppbv		99
16) 1,1-Dichloroethene	2.656	61	22512	0.984	ppbv		98
17) Methylene Chloride	3.251	49	24346	0.919	ppbv		98
21) Trichlorotrifluoroethane	2.725	101	22973	0.983	ppbv		98
26) Cis-1,2-Dichloroethene	5.100	61	18697	0.961	ppbv		98
32) 1,1,1-Trichloroethane	5.850	97	26597	0.931	ppbv		98
33) Benzene	6.409	78	22397	0.999	ppbv		97
34) Carbon Tetrachloride	5.763	117	32835	0.958	ppbv		97
39) Trichloroethene	7.272	130	17062	0.958	ppbv		98
48) Toluene	9.138	91	31447	0.932	ppbv		99
52) Tetrachloroethene	9.600	166	19662	0.939	ppbv		97
55) Chlorobenzene	10.935	112	30347	0.981	ppbv		90
56) Ethylbenzene	11.011	91	44059	0.980	ppbv		99
57) m,p-Xylene	11.196	91	70891	2.068	ppbv		99
61) o-Xylene	11.690	91	35621	0.957	ppbv		99
71) 1,3-Dichlorobenzene	13.616	146	28694	0.980	ppbv		99
72) 1,4-Dichlorobenzene	13.713	146	28592	1.006	ppbv		99
75) 1,2-Dichlorobenzene	14.096	146	23309	0.984	ppbv		99
77) 1,2,4-Trichlorobenzene	15.252	180	13423	1.157	ppbv		99
82] Vinyl Chloride(sim)	1.721	62	12926	0.964	ppbv		100
86] Carbon Tetrachloride(sim)	5.766	117	35027	0.875	ppbv		100
87] 1,1-Dichloroethene(sim)	2.656	61	22512	0.895	ppbv		98
91] Cis-1,2-Dichloroethene...	5.100	61	18649	0.898	ppbv		97
97] Trichloroethene(sim)	7.272	130	17062	0.853	ppbv		98
103] Tetrachloroethene(sim)	9.600	166	19542	0.915	ppbv		97
107] m,p-Xylene(sim)	11.196	91	70894	1.935	ppbv		99
113] 1,4-Dichlorobenzene(sim)	13.713	146	28547	0.989	ppbv		99
118] 1,2,4-Trichlorobenzene...	15.255	180	15902	1.006	ppbv		100

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

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_20.D
Acq On : 21 Aug 2020 8:28 pm
Operator : Keith
Client ID : ICAL 1
Lab ID : 1.0ppb cc
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 24 09:15:52 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration





Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_21.D
Acq On : 21 Aug 2020 9:53 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 24 09:16:10 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
Response via : Initial Calibration

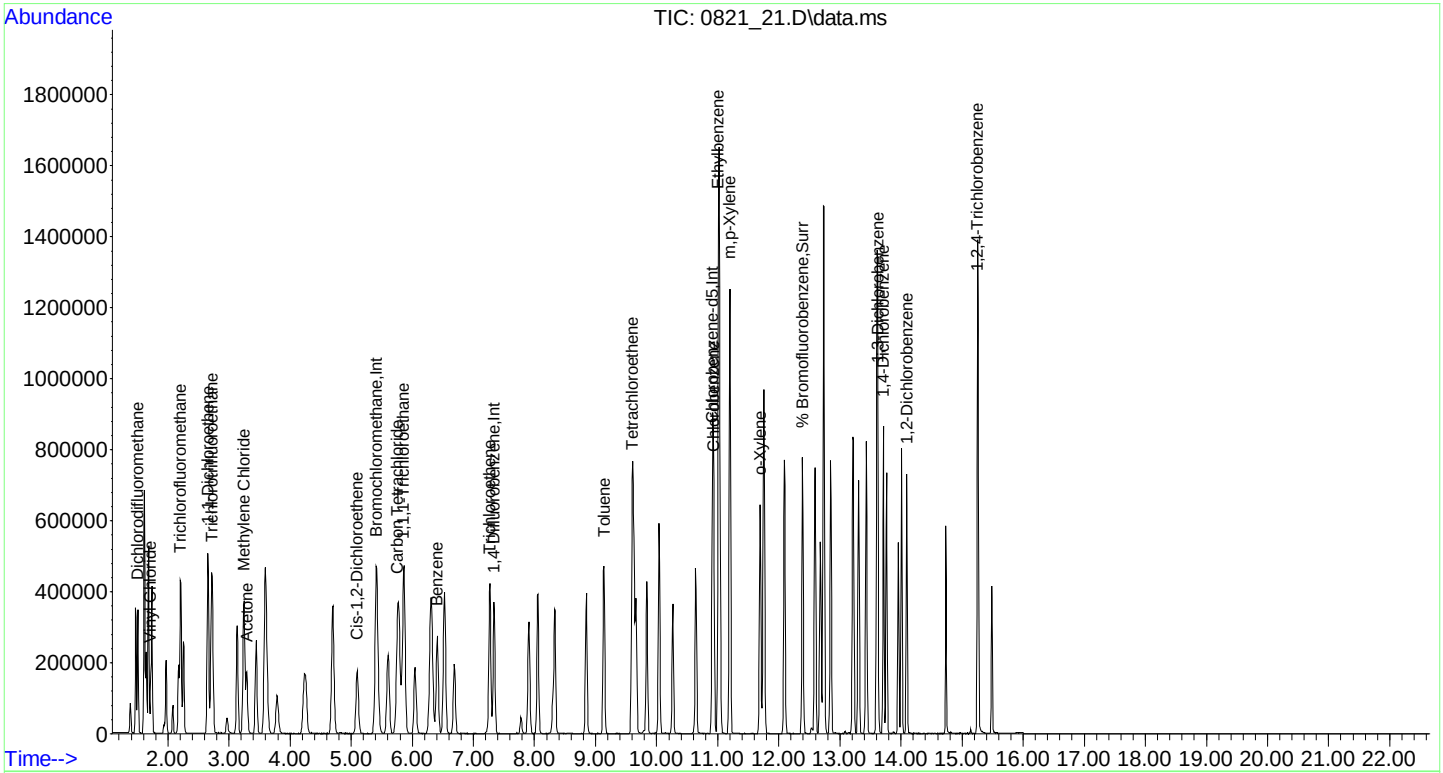
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	112694	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.340	114	332606	10.000	ng		0.00
53) Chlorobenzene-d5	10.915	82	150998	10.000	ng		0.00
80) Bromochloromethane(sim)	5.406	130	123145	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.343	114	377797	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.918	82	162912	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	12.389	95	235553	10.003	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Dichlorodifluoromethane	1.506	85	206187	10.129	ppbv		100
6) Vinyl Chloride	1.718	62	113517	10.232	ppbv		100
12) Acetone	3.292	43	260114	7.838	ppbv		100
13) Trichlorofluoromethane	2.211	101	338518	9.920	ppbv		100
16) 1,1-Dichloroethene	2.656	61	216587	9.850	ppbv		100
17) Methylene Chloride	3.245	49	220075	8.645	ppbv		100
21) Trichlorotrifluoroethane	2.718	101	221586	9.871	ppbv		100
26) Cis-1,2-Dichloroethene	5.100	61	182249	9.749	ppbv		100
32) 1,1,1-Trichloroethane	5.857	97	257422	9.375	ppbv		100
33) Benzene	6.409	78	212656	9.875	ppbv		100
34) Carbon Tetrachloride	5.763	117	313847	9.531	ppbv		100
39) Trichloroethene	7.272	130	164637	9.985	ppbv		100
48) Toluene	9.138	91	313040	10.025	ppbv		100
52) Tetrachloroethene	9.600	166	194540	10.039	ppbv		100
55) Chlorobenzene	10.935	112	298737	9.979	ppbv		100
56) Ethylbenzene	11.011	91	428914	9.866	ppbv		100
57) m,p-Xylene	11.196	91	678112	20.452	ppbv		100
61) o-Xylene	11.697	91	353422	9.815	ppbv		100
71) 1,3-Dichlorobenzene	13.622	146	281967	9.958	ppbv		100
72) 1,4-Dichlorobenzene	13.713	146	277212	10.088	ppbv		100
75) 1,2-Dichlorobenzene	14.096	146	220049	9.606	ppbv		100
77) 1,2,4-Trichlorobenzene	15.253	180	106488	9.489	ppbv		100
82] Vinyl Chloride(sim)	1.721	62	126093	9.728	ppbv		100
86] Carbon Tetrachloride(sim)	5.759	117	341176	8.822	ppbv		100
87] 1,1-Dichloroethene(sim)	2.656	61	216587	8.905	ppbv		100
91] Cis-1,2-Dichloroethene...	5.100	61	182391	9.086	ppbv		100
97] Trichloroethene(sim)	7.272	130	164595	8.841	ppbv		100
103] Tetrachloroethene(sim)	9.600	166	194540	9.790	ppbv		100
107] m,p-Xylene(sim)	11.196	91	678526	19.350	ppbv		100
113] 1,4-Dichlorobenzene(sim)	13.713	146	277212	10.033	ppbv		100
118] 1,2,4-Trichlorobenzene...	15.256	180	125707	8.309	ppbv		100

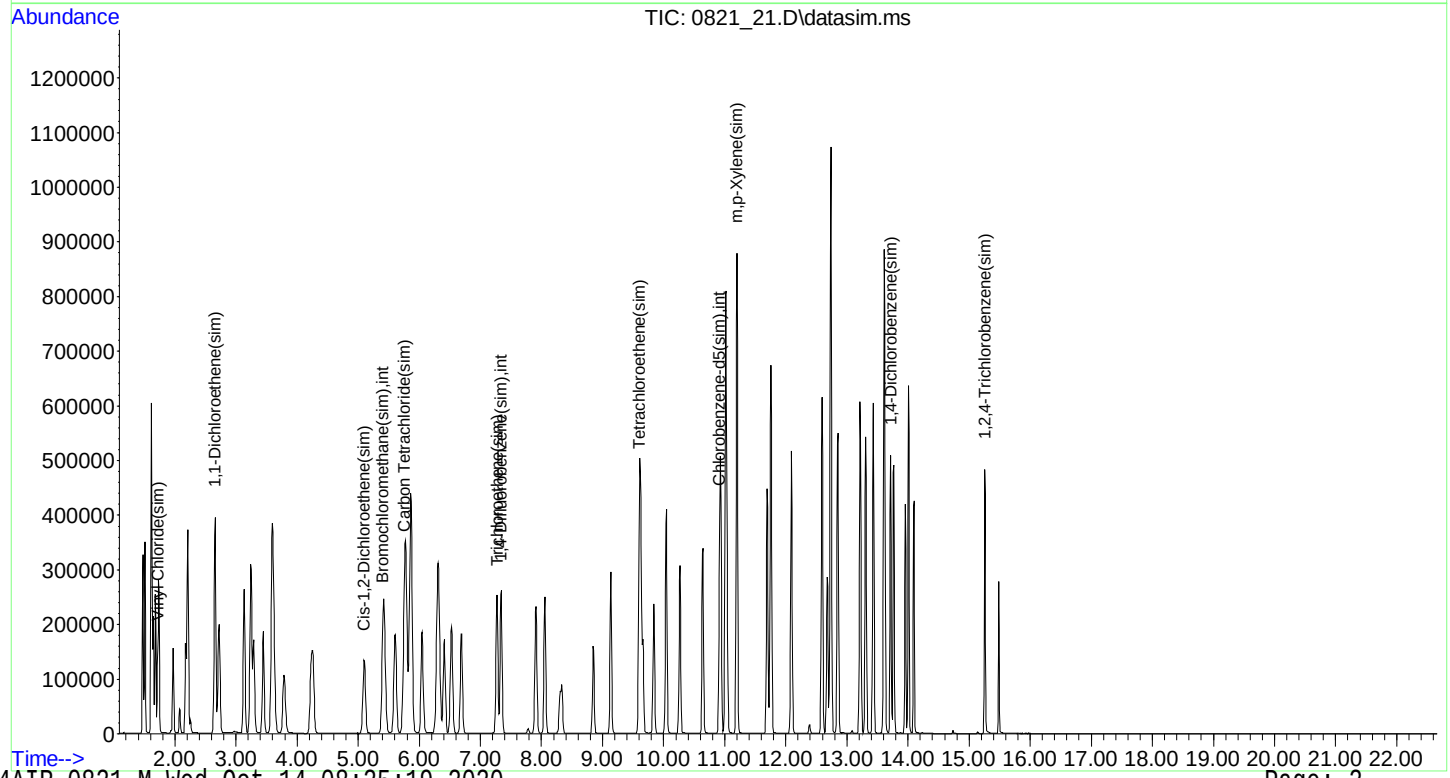
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (RF) (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\21\
Data File : 0821_21.D
Acq On : 21 Aug 2020 9:53 pm
Operator : Keith
Client ID : ICAL 10
Lab ID : 10ppb cc
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 24 09:16:10 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Aug 24 09:10:37 2020
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.: GCG61563

Instrument: CHEM24 Calibration Date: 08/26/20 Time: 05:21

Lab File Id: 0826_01.D Init. Calib. Date(s): 08/21/20 08/21/20

Heated Purge (Y/N): Y Init. Calib. Times: 13:44 21:53

GC Column: RTX-VMS Method File: 24AIR_0821_wal.M

COMPOUND	RRF	RRF1	RRF MIN	%D	% D LIMITS
Dichlorodifluoromethane	1.806	2.170		-20.2	30
Vinyl Chloride	0.984	0.985		-0.1	30
Acetone	2.945	3.370		-14.4	30
Trichlorofluoromethane	3.028	3.246		-7.2	30
1,1-Dichloroethene	1.951	2.065		-5.8	30
Methylene Chloride	2.259	2.383		-5.5	30
Trichlorotrifluoroethane	1.992	2.132		-7.0	30
Cis-1,2-Dichloroethene	1.659	1.698		-2.4	30
1,1,1-Trichloroethane	2.437	2.560		-5.0	30
Benzene	1.911	1.886		1.3	30
Carbon Tetrachloride	2.922	3.083		-5.5	30
Trichloroethene	0.496	0.528		-6.5	30
Toluene	0.939	0.895		4.7	30
Tetrachloroethene	0.583	0.567		2.7	30
Chlorobenzene	1.982	1.894		4.4	30
Ethylbenzene	2.879	2.754		4.3	30
m,p-Xylene	2.196	1.768		19.5	30
o-Xylene	2.385	2.339		1.9	30
1,3-Dichlorobenzene	1.875	1.816		3.1	30
1,4-Dichlorobenzene	1.820	1.838		-1.0	30
1,2-Dichlorobenzene	1.517	1.523		-0.4	30
1,2,4-Trichlorobenzene	0.743	0.752		-1.2	30
Vinyl Chloride(sim)	1.053	0.900		14.5	30
Carbon Tetrachloride(sim)	3.140	3.098		1.3	30
1,1-Dichloroethene(sim)	1.975	1.888		4.4	30
Cis-1,2-Dichloroethene(sim)	1.630	1.553		4.7	30
Trichloroethene(sim)	0.493	0.552		-12.0	30
Tetrachloroethene(sim)	0.526	0.659		-25.3	30
m,p-Xylene(sim)	2.152	2.458		-14.2	30
1,4-Dichlorobenzene(sim)	1.696	2.101		-23.9	30
% Bromofluorobenzene	1.559	1.537		1.4	30

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

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

(#) Maximum %D not met.

Evaluate Continuing Calibration Report

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Oct 13 15:44:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
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	74
2		Dichlorodifluoromethane	1.806	2.170	-20.2	
3		Vinyl Chloride	0.984	0.985	-0.1	
4		Acetone	2.945	3.370	-14.4	
5		Trichlorofluoromethane	3.028	3.246	-7.2	
6		1,1-Dichloroethene	1.951	2.065	-5.8	
7		Methylene Chloride	2.259	2.383	-5.5	
8		Trichlorotrifluoroethane	1.992	2.132	-7.0	
10		Cis-1,2-Dichloroethene	1.659	1.698	-2.4	
12		1,1,1-Trichloroethane	2.437	2.560	-5.0	
13		Benzene	1.911	1.886	1.3	
14		Carbon Tetrachloride	2.922	3.083	-5.5	
15	Int	1,4-Difluorobenzene	1.000	1.000	0.0	73
17		Trichloroethene	0.496	0.528	-6.5	
18		Toluene	0.939	0.895	4.7	
19		Tetrachloroethene	0.583	0.567	2.7	
20	Int	Chlorobenzene-d5	1.000	1.000	0.0	77
21		Chlorobenzene	1.982	1.894	4.4	
22		Ethylbenzene	2.879	2.754	4.3	
23		m,p-Xylene	2.196	1.768	19.5	
24		o-Xylene	2.385	2.339	1.9	
25	Surr	% Bromofluorobenzene	1.559	1.537	1.4	
26		1,3-Dichlorobenzene	1.875	1.816	3.1	
27		1,4-Dichlorobenzene	1.820	1.838	-1.0	
28		1,2-Dichlorobenzene	1.517	1.523	-0.4	
29		1,2,4-Trichlorobenzene	0.743	0.752	-1.2	
30	int	Bromochloromethane(sim)	1.000	1.000	0.0	75
31		Vinyl Chloride(sim)	1.053	0.900	14.5	
34		Carbon Tetrachloride(sim)	3.140	3.098	1.3	
35		1,1-Dichloroethene(sim)	1.975	1.888	4.4	
39		Cis-1,2-Dichloroethene(sim)	1.630	1.553	4.7	
41	int	1,4-Difluorobenzene(sim)	1.000	1.000	0.0	65
44		Trichloroethene(sim)	0.493	0.552	-12.0	
46		Tetrachloroethene(sim)	0.526	0.659	-25.3	
47	int	Chlorobenzene-d5(sim)	1.000	1.000	0.0	71
48		m,p-Xylene(sim)	2.152	2.458	-14.2	
50		1,4-Dichlorobenzene(sim)	1.696	2.101	-23.9	

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Oct 13 15:44:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

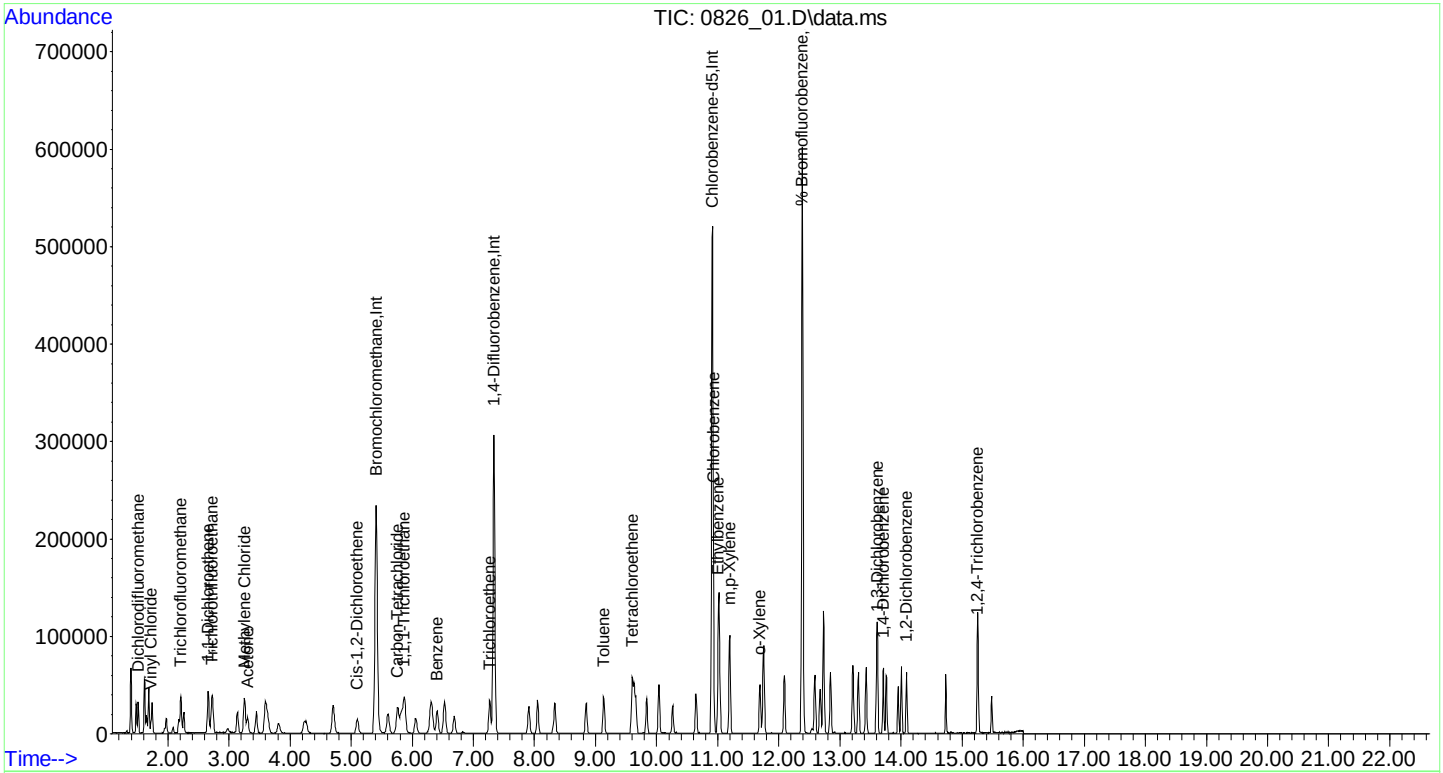
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	86894	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.340	114	262040	10.000	ng		0.00
20) Chlorobenzene-d5	10.908	82	120042	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	95039	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.340	114	262040	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.908	82	120042	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.382	95	184564	9.859	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.60%			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	18856	1.201	ppbv		99
3) Vinyl Chloride	1.725	62	8558	1.000	ppbv		98
4) Acetone	3.306	43	29280	1.144	ppbv	#	89
5) Trichlorofluoromethane	2.211	101	28204	1.072	ppbv		100
6) 1,1-Dichloroethene	2.656	61	17945	1.058	ppbv		96
7) Methylene Chloride	3.251	49	20709	1.055	ppbv		96
8) Trichlorotrifluoroethane	2.725	101	18522	1.070	ppbv		97
10) Cis-1,2-Dichloroethene	5.100	61	14758	1.024	ppbv		99
12) 1,1,1-Trichloroethane	5.864	97	22246	1.051	ppbv		98
13) Benzene	6.409	78	16384	0.987	ppbv		93
14) Carbon Tetrachloride	5.756	117	26792	1.055	ppbv		97
17) Trichloroethene	7.265	130	13835	1.065	ppbv		92
18) Toluene	9.131	91	23461	0.954	ppbv		97
19) Tetrachloroethene	9.600	166	14851	0.973	ppbv		96
21) Chlorobenzene	10.928	112	22733	0.955	ppbv		89
22) Ethylbenzene	11.011	91	33063	0.957	ppbv		98
23) m,p-Xylene	11.196	91	53058	2.013	ppbv		100
24) o-Xylene	11.690	91	28081	0.981	ppbv		94
26) 1,3-Dichlorobenzene	13.615	146	21794	0.968	ppbv		99
27) 1,4-Dichlorobenzene	13.713	146	22063	1.010	ppbv		98
28) 1,2-Dichlorobenzene	14.089	146	18278	1.004	ppbv		98
29) 1,2,4-Trichlorobenzene	15.248	180	9029	1.012	ppbv		94
31] Vinyl Chloride(sim)	1.725	62	8558	0.856	ppbv		98
34] Carbon Tetrachloride(sim)	5.759	117	29440	0.986	ppbv		100
35] 1,1-Dichloroethene(sim)	2.656	61	17945	0.956	ppbv		96
39] Cis-1,2-Dichloroethene...	5.100	61	14758	0.953	ppbv		99
44] Trichloroethene(sim)	7.268	130	14458	1.120	ppbv		98
46] Tetrachloroethene(sim)	9.603	166	17277	1.253	ppbv		100
48] m,p-Xylene(sim)	11.192	91	59019	2.284	ppbv		99
50] 1,4-Dichlorobenzene(sim)	13.709	146	25218	1.239	ppbv		99

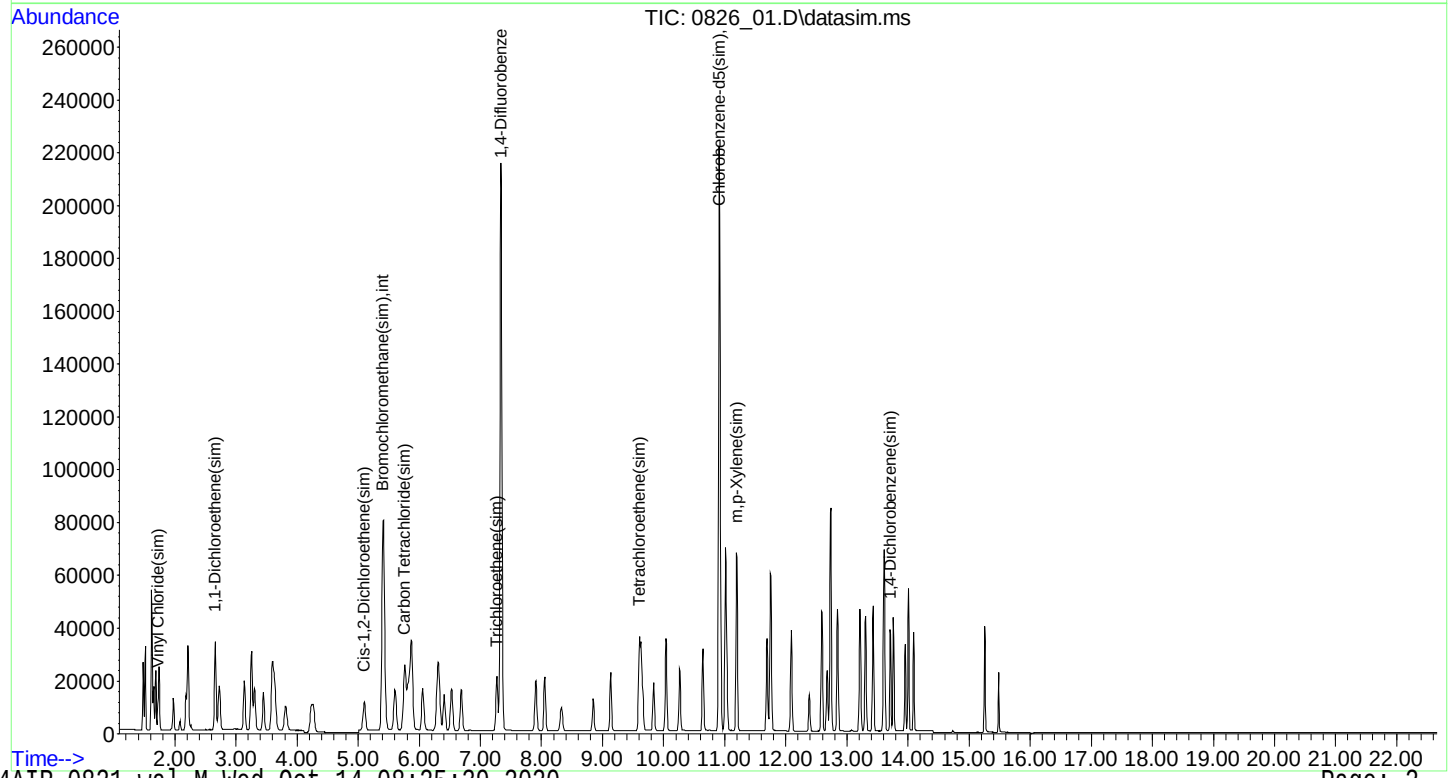
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_01.D
Acq On : 26 Aug 2020 5:21 am
Operator : Keith
Client ID : BFB TUNE - CCAL 1
Lab ID : 1.0ppb cc - 1.0ppb cc
ALS Vial : 206 Sample Multiplier: 1

Quant Time: Oct 13 15:44:13 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 LCS

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61561 LCS

Canister: LCS Lab File ID: 0826_03.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	9.45		0.200	0.200	r
75-01-4	Vinyl Chloride	10.9		0.020	0.020	r
67-64-1	Acetone	9.27		1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.2		0.150	0.150	r
75-35-4	1,1-Dichloroethene	11.0		0.050	0.050	r
75-09-2	Methylene Chloride	9.49		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	10.6		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.5		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	10.4		0.200	0.200	r
71-43-2	Benzene	10.1		0.050	0.050	r
56-23-5	Carbon Tetrachloride	10.9		0.020	0.020	r
79-01-6	Trichloroethene	10.1		0.037	0.037	r
108-88-3	Toluene	9.94		0.200	0.200	r
127-18-4	Tetrachloroethene	10.3		0.100	0.100	r
108-90-7	Chlorobenzene	10.1		0.200	0.200	r
100-41-4	Ethylbenzene	10.3		0.150	0.150	r
179601-23-1	m,p-Xylene	21.2		0.150	0.150	r
95-47-6	o-Xylene	10.2		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.7		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.7		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	10.7		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.30		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_03.D
Acq On : 26 Aug 2020 6:32 am
Operator : Keith
Client ID : CG61561 LCS
Lab ID : CG61561 LCS
ALS Vial : 207 Sample Multiplier: 1

Quant Time: Oct 13 15:44:20 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

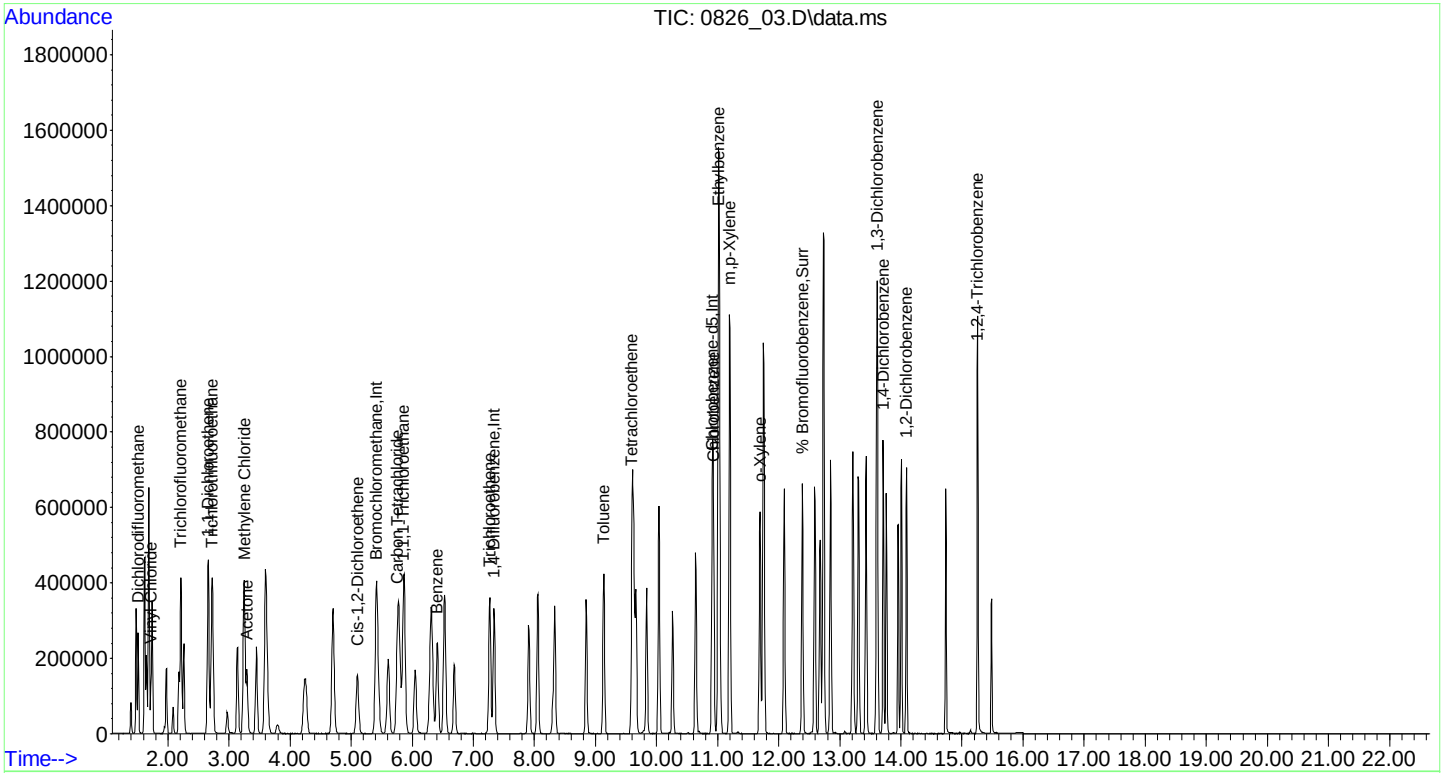
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	92271	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	279111	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	127530	10.000	ng		0.00
30) Bromochloromethane(sim)	5.411	130	100683	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	279111	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	127530	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	202070	10.160	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.513	85	157522	9.451	ppbv		100
3) Vinyl Chloride	1.725	62	99371	10.939	ppbv		100
4) Acetone	3.293	43	251847	9.269	ppbv		96
5) Trichlorofluoromethane	2.211	101	311436	11.146	ppbv		100
6) 1,1-Dichloroethene	2.656	61	198463	11.024	ppbv		98
7) Methylene Chloride	3.252	49	197783	9.489	ppbv		96
8) Trichlorotrifluoroethane	2.725	101	194006	10.555	ppbv		100
10) Cis-1,2-Dichloroethene	5.105	61	160599	10.492	ppbv		98
12) 1,1,1-Trichloroethane	5.855	97	233302	10.377	ppbv		100
13) Benzene	6.407	78	178478	10.122	ppbv		95
14) Carbon Tetrachloride	5.761	117	293438	10.884	ppbv		99
17) Trichloroethene	7.270	130	139758	10.101	ppbv		100
18) Toluene	9.136	91	260509	9.942	ppbv		99
19) Tetrachloroethene	9.598	166	167696	10.312	ppbv		98
21) Chlorobenzene	10.934	112	255798	10.118	ppbv		99
22) Ethylbenzene	11.016	91	379331	10.332	ppbv		99
23) m,p-Xylene	11.194	91	594818	21.241	ppbv		99
24) o-Xylene	11.695	91	311163	10.232	ppbv		98
26) 1,3-Dichlorobenzene	13.614	146	256767	10.736	ppbv		99
27) 1,4-Dichlorobenzene	13.711	146	248356	10.701	ppbv		99
28) 1,2-Dichlorobenzene	14.094	146	206478	10.673	ppbv		99
29) 1,2,4-Trichlorobenzene	15.251	180	88173	9.303	ppbv		99
31) Vinyl Chloride(sim)	1.725	62	99371	9.377	ppbv		100
34) Carbon Tetrachloride(sim)	5.764	117	316694	10.016	ppbv		100
35) 1,1-Dichloroethene(sim)	2.656	61	198463	9.980	ppbv		98
39) Cis-1,2-Dichloroethene...	5.105	61	160599	9.786	ppbv		98
44) Trichloroethene(sim)	7.273	130	155931	11.337	ppbv		100
46) Tetrachloroethene(sim)	9.601	166	191574	13.049	ppbv		99
48) m,p-Xylene(sim)	11.197	91	657706	23.960	ppbv		99
50) 1,4-Dichlorobenzene(sim)	13.714	146	287140	13.275	ppbv		100

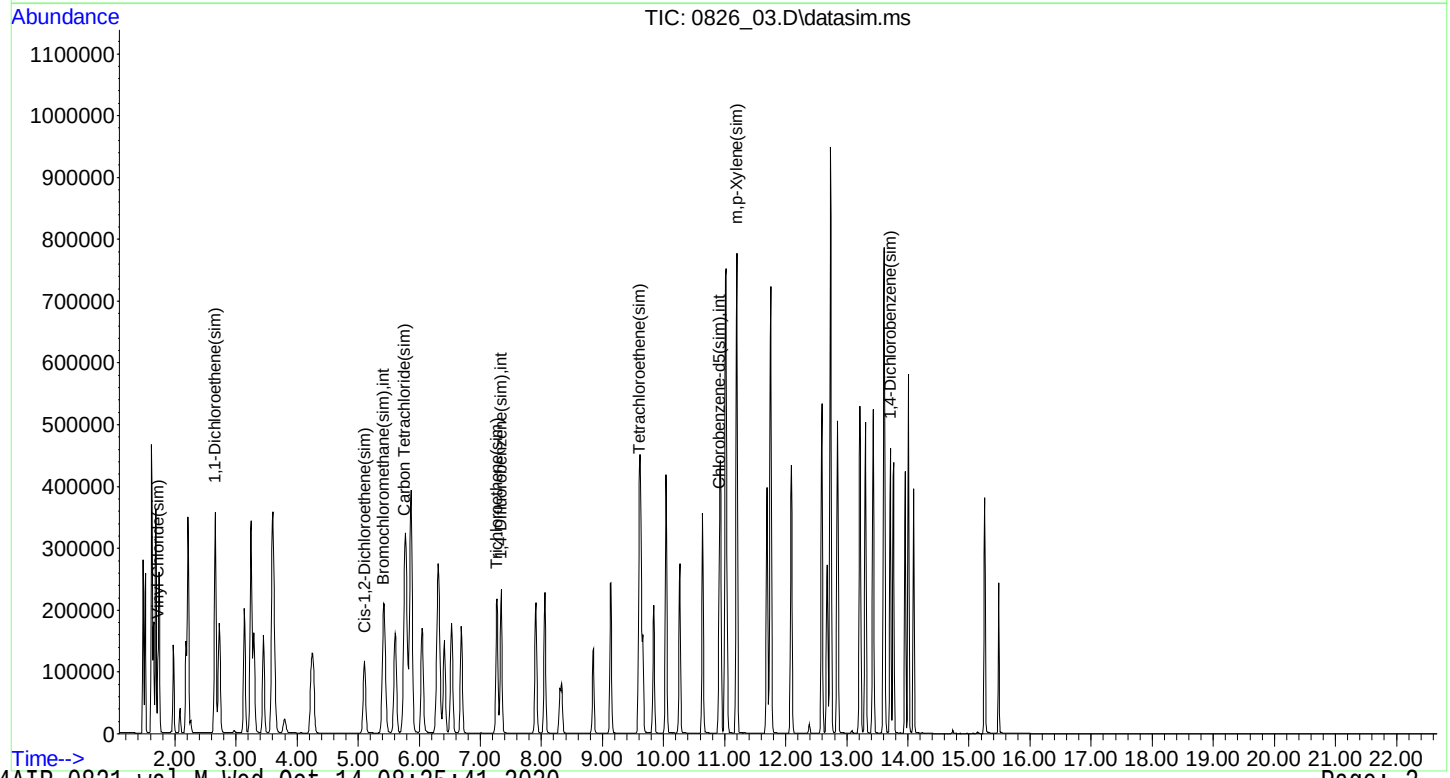
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_03.D
Acq On : 26 Aug 2020 6:32 am
Operator : Keith
Client ID : CG61561 LCS
Lab ID : CG61561 LCS
ALS Vial : 207 Sample Multiplier: 1

Quant Time: Oct 13 15:44:20 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 LCSD

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61561 LCS

Canister: LCS Lab File ID: 0826_04.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	7.88		0.200	0.200	r
75-01-4	Vinyl Chloride	11.0		0.020	0.020	r
67-64-1	Acetone	9.11		1.00	1.00	r
75-69-4	Trichlorofluoromethane	10.9		0.150	0.150	r
75-35-4	1,1-Dichloroethene	10.7		0.050	0.050	r
75-09-2	Methylene Chloride	9.35		0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	10.5		0.150	0.150	r
156-59-2	Cis-1,2-Dichloroethene	10.2		0.050	0.050	r
71-55-6	1,1,1-Trichloroethane	10.0		0.200	0.200	r
71-43-2	Benzene	10.0		0.050	0.050	r
56-23-5	Carbon Tetrachloride	10.4		0.020	0.020	r
79-01-6	Trichloroethene	9.97		0.037	0.037	r
108-88-3	Toluene	9.99		0.200	0.200	r
127-18-4	Tetrachloroethene	10.3		0.100	0.100	r
108-90-7	Chlorobenzene	10.2		0.200	0.200	r
100-41-4	Ethylbenzene	10.1		0.150	0.150	r
179601-23-1	m,p-Xylene	21.0		0.150	0.150	r
95-47-6	o-Xylene	10.2		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	10.5		0.150	0.150	r
106-46-7	1,4-Dichlorobenzene	10.3		0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	10.6		0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	9.20		0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_04.D
Acq On : 26 Aug 2020 9:35 am
Operator : Keith
Client ID : CG61561 LCSD
Lab ID : CG61561 LCSD
ALS Vial : 208 Sample Multiplier: 1

Quant Time: Oct 13 15:44:24 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

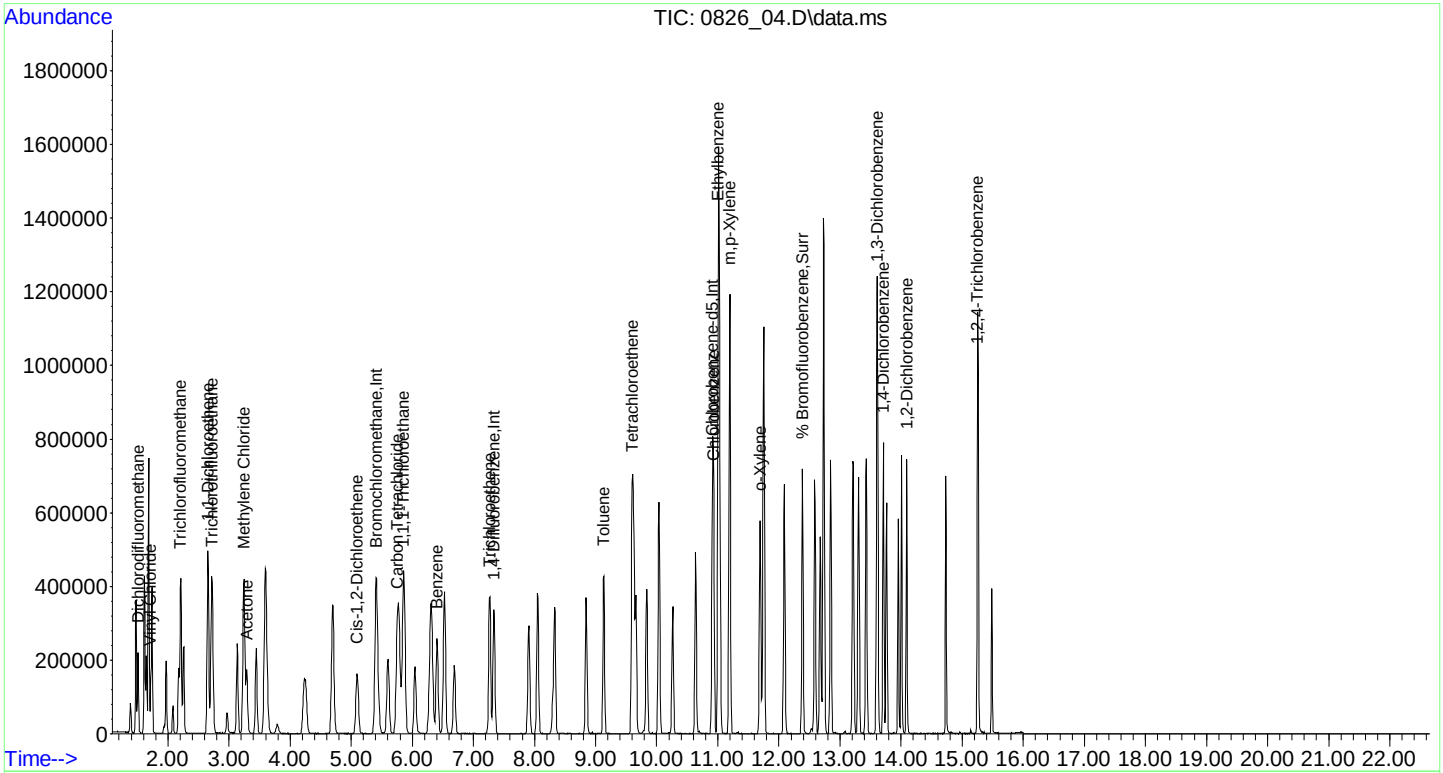
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.407	130	98216	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	294304	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	134634	10.000	ng		0.00
30) Bromochloromethane(sim)	5.410	130	106431	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	294304	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	134634	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	213469	10.167	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	139765	7.878	ppbv		100
3) Vinyl Chloride	1.718	62	106768	11.042	ppbv		100
4) Acetone	3.292	43	263424	9.108	ppbv		97
5) Trichlorofluoromethane	2.211	101	323633	10.882	ppbv		100
6) 1,1-Dichloroethene	2.656	61	204550	10.674	ppbv		99
7) Methylene Chloride	3.244	49	207428	9.349	ppbv		96
8) Trichlorotrifluoroethane	2.718	101	204783	10.467	ppbv		98
10) Cis-1,2-Dichloroethene	5.098	61	166839	10.240	ppbv		100
12) 1,1,1-Trichloroethane	5.854	97	239573	10.011	ppbv		99
13) Benzene	6.407	78	187629	9.997	ppbv		96
14) Carbon Tetrachloride	5.753	117	297544	10.368	ppbv		99
17) Trichloroethene	7.269	130	145426	9.968	ppbv		99
18) Toluene	9.136	91	275991	9.989	ppbv		99
19) Tetrachloroethene	9.598	166	177367	10.343	ppbv		99
21) Chlorobenzene	10.933	112	272655	10.215	ppbv		100
22) Ethylbenzene	11.009	91	391234	10.094	ppbv		100
23) m,p-Xylene	11.194	91	620355	20.984	ppbv		99
24) o-Xylene	11.695	91	325924	10.152	ppbv		98
26) 1,3-Dichlorobenzene	13.613	146	264622	10.481	ppbv		99
27) 1,4-Dichlorobenzene	13.711	146	252198	10.293	ppbv		98
28) 1,2-Dichlorobenzene	14.094	146	216387	10.595	ppbv		98
29) 1,2,4-Trichlorobenzene	15.251	180	92072	9.201	ppbv		98
31) Vinyl Chloride(sim)	1.718	62	106682	9.523	ppbv		100
34) Carbon Tetrachloride(sim)	5.756	117	323845	9.689	ppbv		100
35) 1,1-Dichloroethene(sim)	2.656	61	204550	9.731	ppbv		99
39) Cis-1,2-Dichloroethene...	5.098	61	166839	9.617	ppbv		100
44) Trichloroethene(sim)	7.265	130	163481	11.273	ppbv		99
46) Tetrachloroethene(sim)	9.601	166	199446	12.884	ppbv		99
48) m,p-Xylene(sim)	11.197	91	683307	23.580	ppbv		100
50) 1,4-Dichlorobenzene(sim)	13.714	146	295026	12.920	ppbv		99

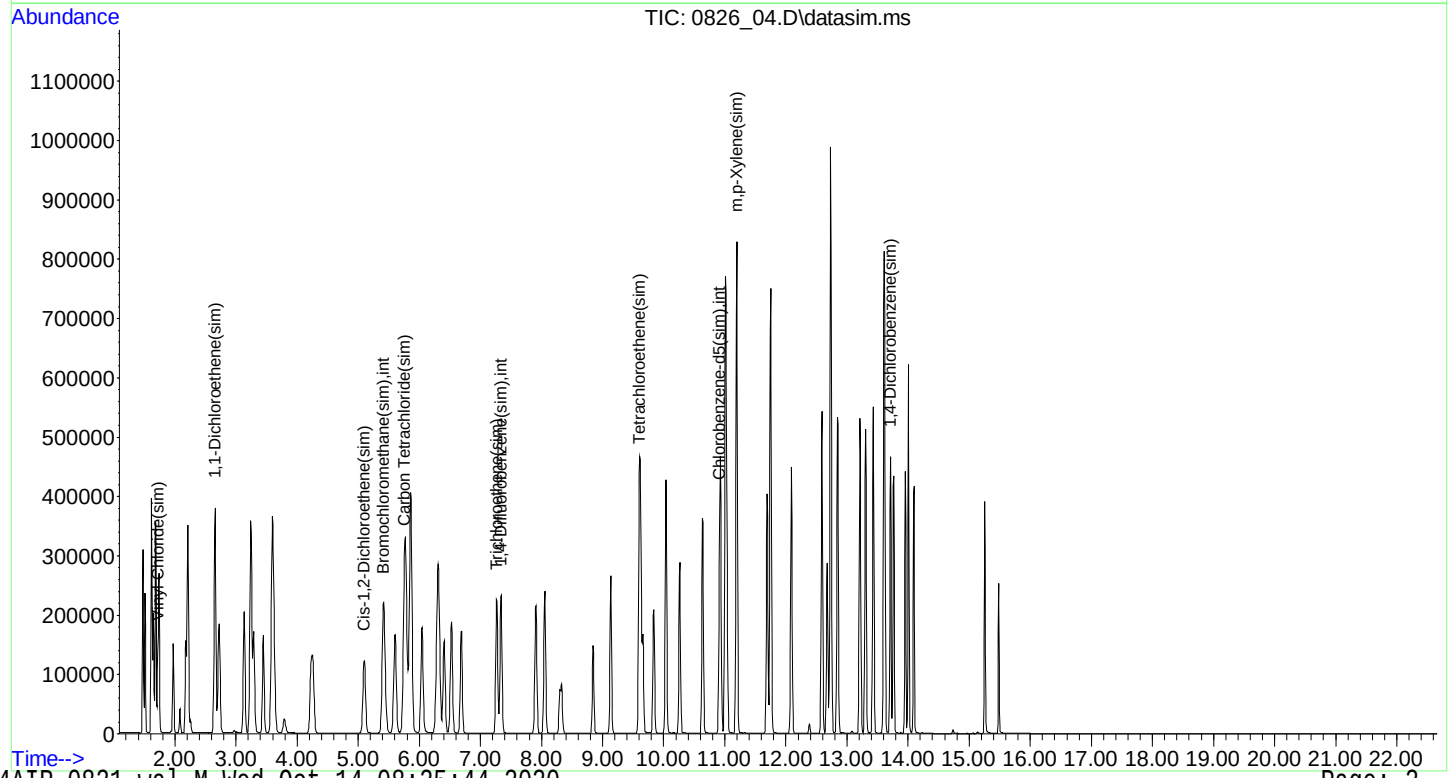
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_04.D
Acq On : 26 Aug 2020 9:35 am
Operator : Keith
Client ID : CG61561 LCSD
Lab ID : CG61561 LCSD
ALS Vial : 208 Sample Multiplier: 1

Quant Time: Oct 13 15:44:24 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 QC

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61561

Canister: 9536 Lab File ID: 0826_07.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.401		0.200	0.200	r
67-64-1	Acetone	6.96	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.5		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.422		0.050	0.050	r
108-88-3	Toluene	1.39		0.200	0.200	r
127-18-4	Tetrachloroethene	0.620		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.431		0.150	0.150	r
179601-23-1	m,p-Xylene	0.949		0.150	0.150	r
95-47-6	o-Xylene	0.391		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.070		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037		0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_07.D
Acq On : 26 Aug 2020 11:19 am
Operator : Keith
Client ID : CG61561 QC
Lab ID : CG61561 QC
ALS Vial : 211 Sample Multiplier: 1

Quant Time: Oct 13 15:44:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

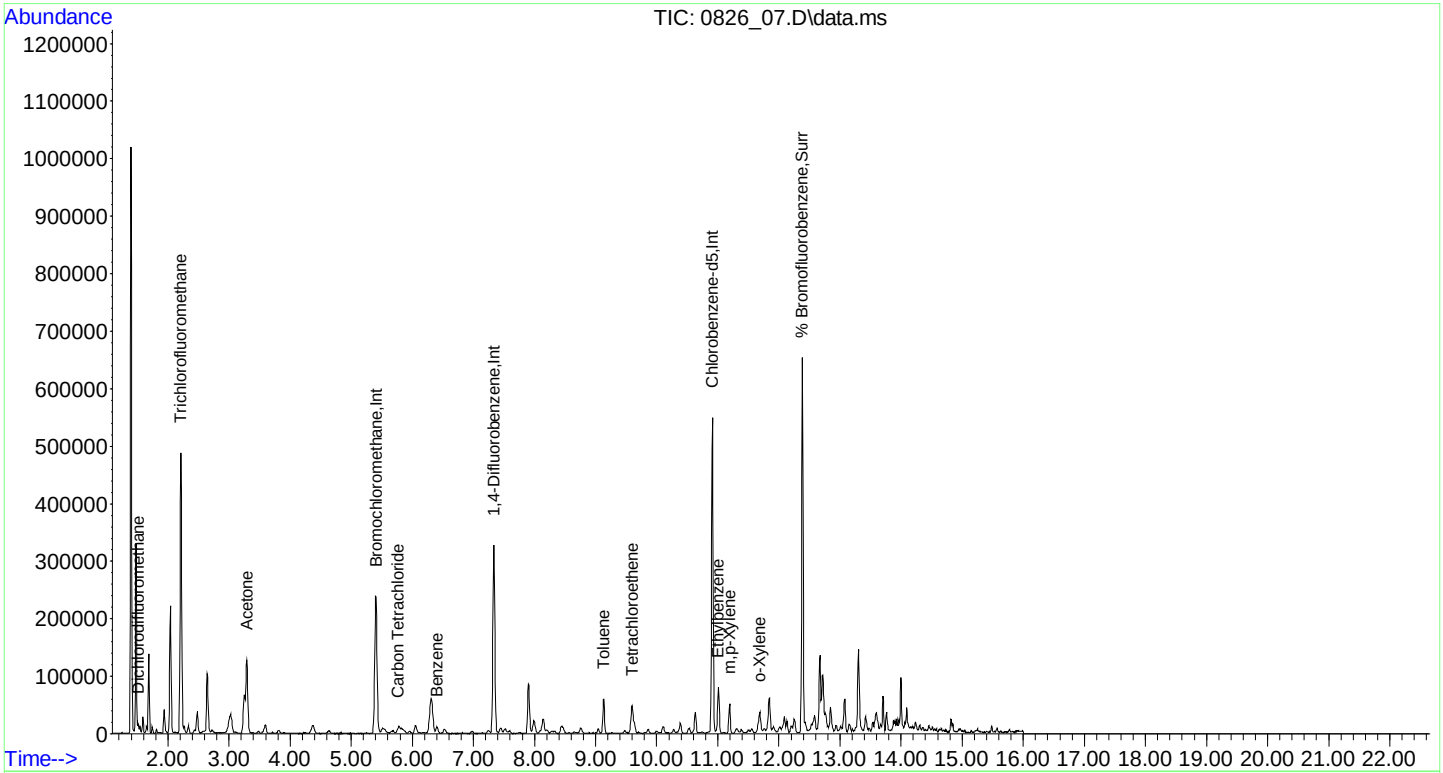
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.408	130	93693	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	281351	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	125426	10.000	ng		0.00
30) Bromochloromethane(sim)	5.403	130	102967	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	281351	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	125426	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.381	95	196320	10.037	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	6788	0.401	ppbv		96
4) Acetone	3.292	43	191896	6.955	ppbv		93
5) Trichlorofluoromethane	2.211	101	326153	11.496	ppbv		99
13) Benzene	6.407	78	7559	0.422	ppbv	#	88
14) Carbon Tetrachloride	5.768	117	2201	0.080	ppbv		88
18) Toluene	9.129	91	36690	1.389	ppbv		98
19) Tetrachloroethene	9.598	166	10167	0.620	ppbv		97
22) Ethylbenzene	11.009	91	15553	0.431	ppbv		97
23) m,p-Xylene	11.194	91	26139	0.949	ppbv		98
24) o-Xylene	11.688	91	11706	0.391	ppbv		99
32] Trichlorofluoromethane...	2.214	101	351399	10.108	ppbv		99
34] Carbon Tetrachloride(sim)	5.764	117	2247	0.069	ppbv		99
44] Trichloroethene(sim)	7.266	130	509	0.037	ppbv		96
46] Tetrachloroethene(sim)	9.601	166	10932	0.739	ppbv		100
48] m,p-Xylene(sim)	11.190	91	29008	1.074	ppbv		99

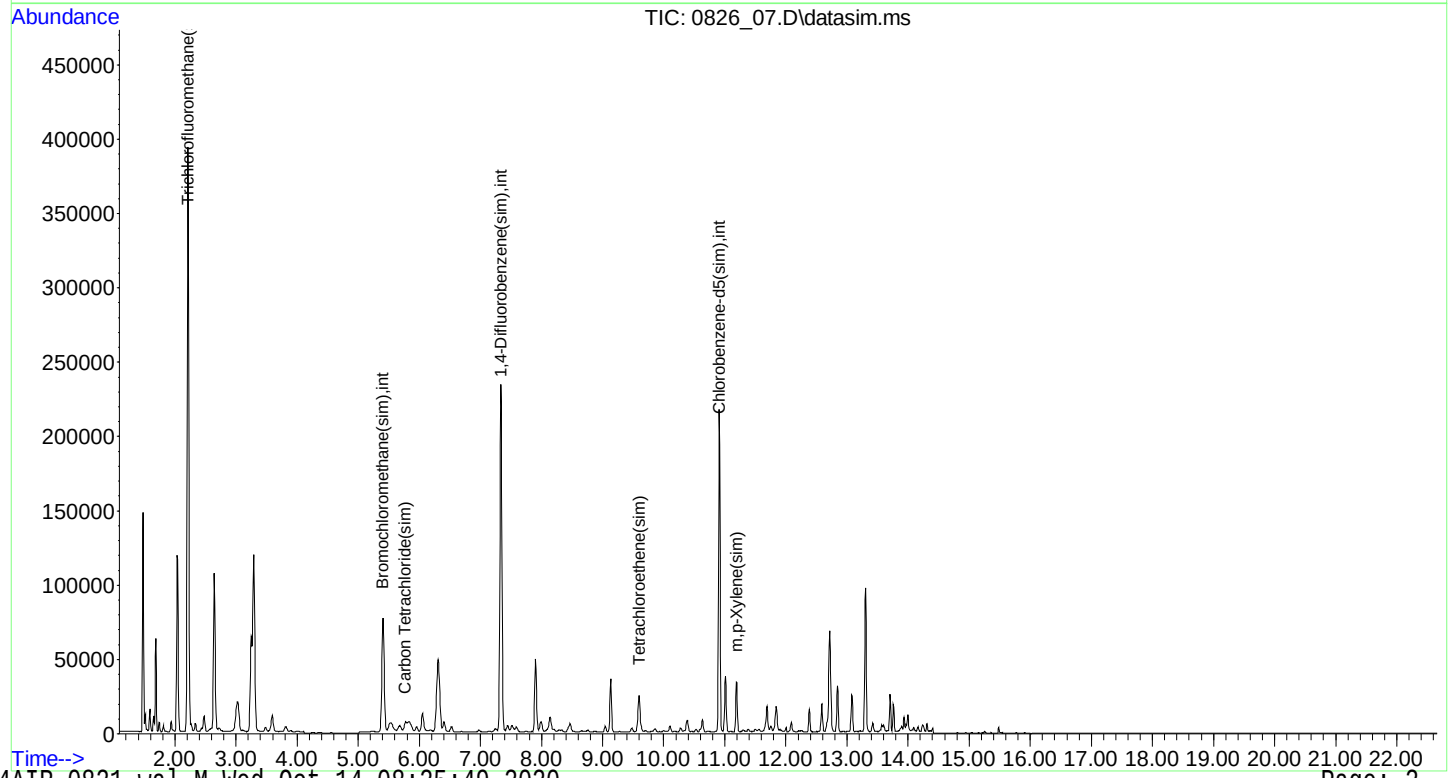
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

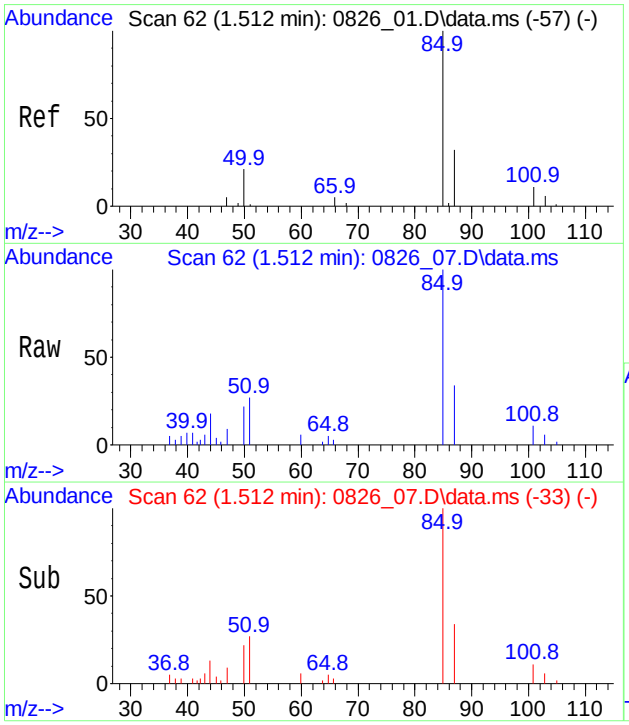
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_07.D
Acq On : 26 Aug 2020 11:19 am
Operator : Keith
Client ID : CG61561 QC
Lab ID : CG61561 QC
ALS Vial : 211 Sample Multiplier: 1

Quant Time: Oct 13 15:44:34 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



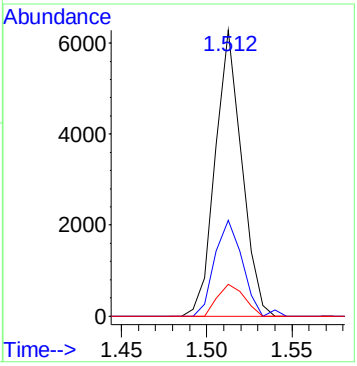


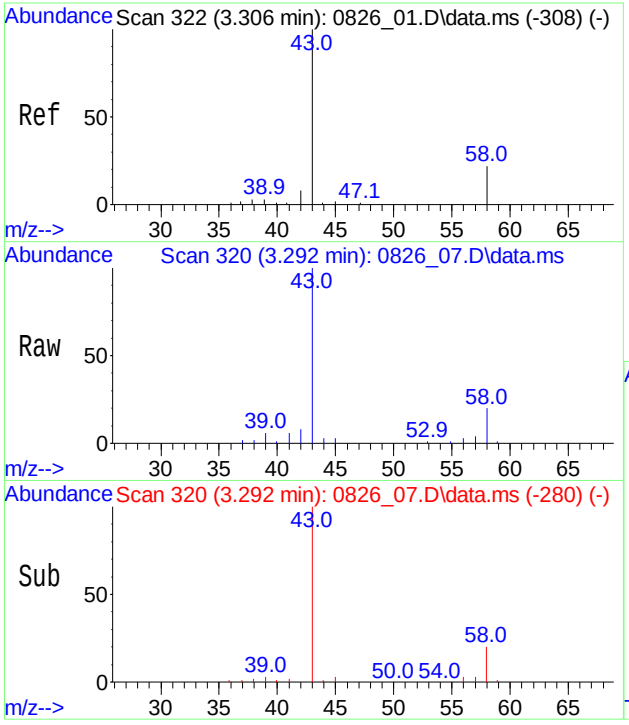


#2
Dichlorodifluoromethane
Conc: 8$ 0.401 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 85 Resp: 6788

Ion	Ratio	Lower	Upper
85	100		
87	35.3	26.1	39.1
101	11.3	8.4	12.6

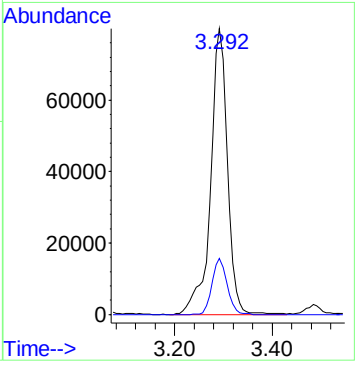


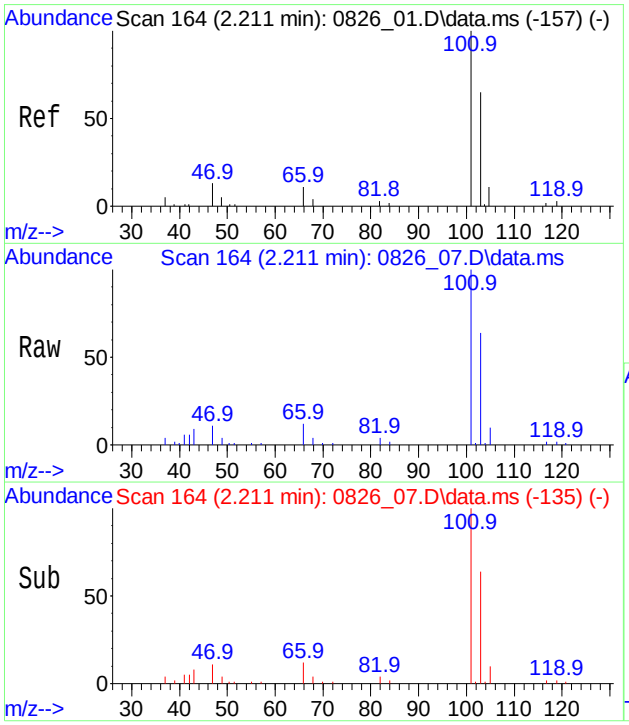


#4
Acetone
Conc: 8$ 6.955 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 43 Resp: 191896

Ion	Ratio	Lower	Upper
43	100		
58	17.5	16.7	25.1

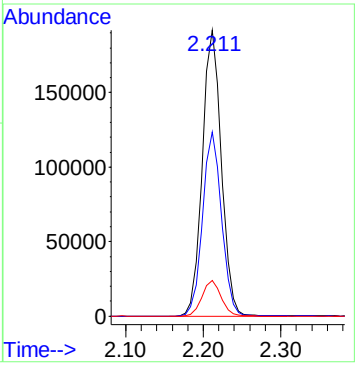


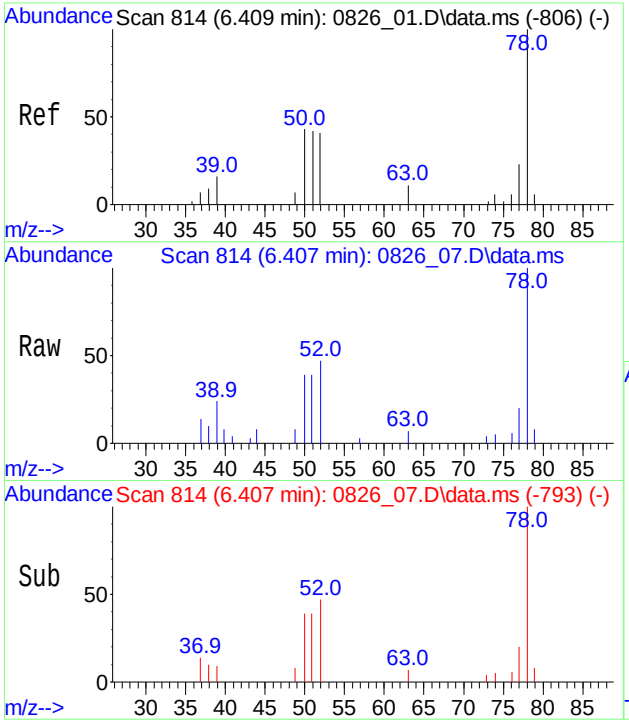


#5
Trichlorofluoromethane
Conc: 8$ 11.496 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:101 Resp: 326153

Ion	Ratio	Lower	Upper
101	100		
103	64.1	52.1	78.1
66	12.5	9.8	14.6

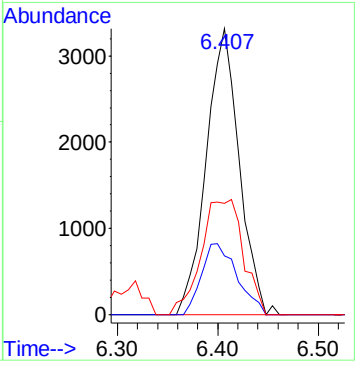


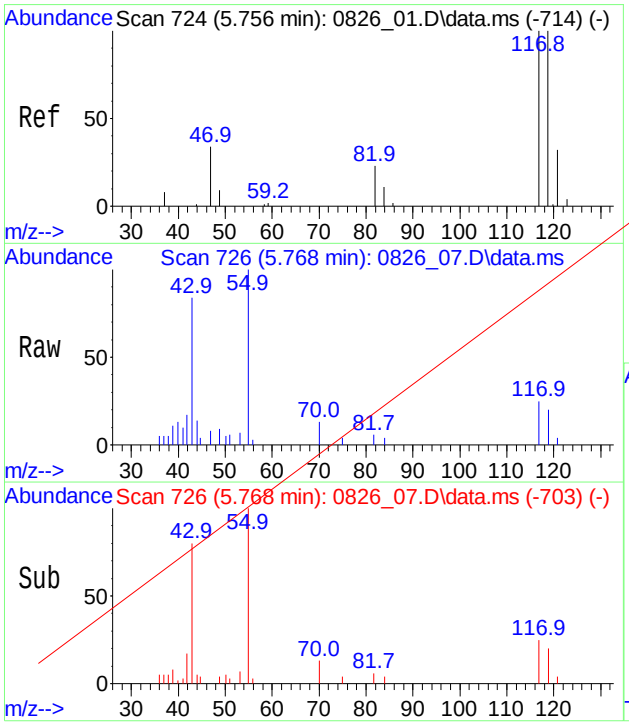


#13
Benzene
Conc: 8$ 0.422 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 78 Resp: 7559

Ion	Ratio	Lower	Upper
78	100		
77	26.6	19.0	28.6
51	51.0	33.0	49.6#

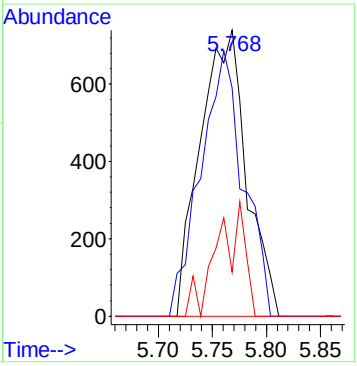


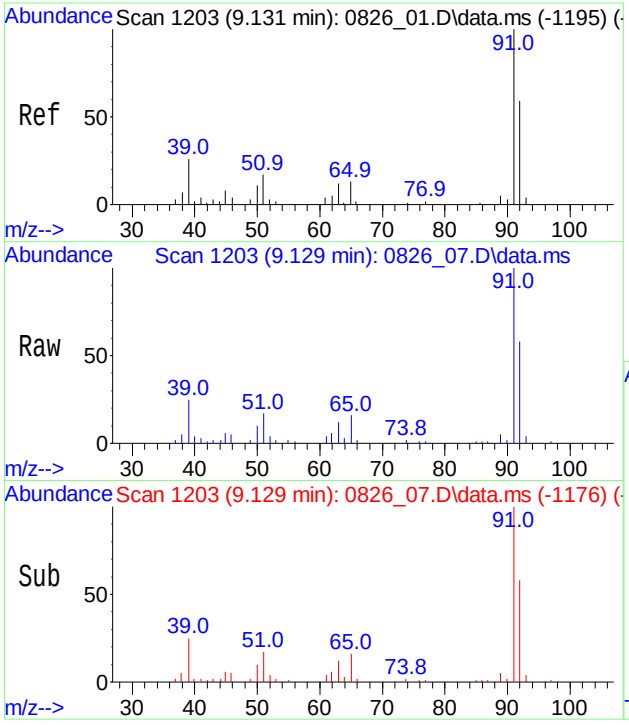


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.768 min Scan# 726
Delta R.T. 0.014 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:117 Resp: 2201

Ion	Ratio	Lower	Upper
117	100		
119	85.9	76.4	116.4
121	23.9	11.9	51.9

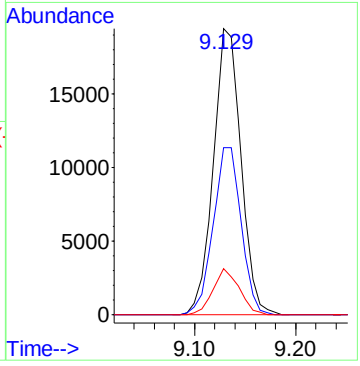


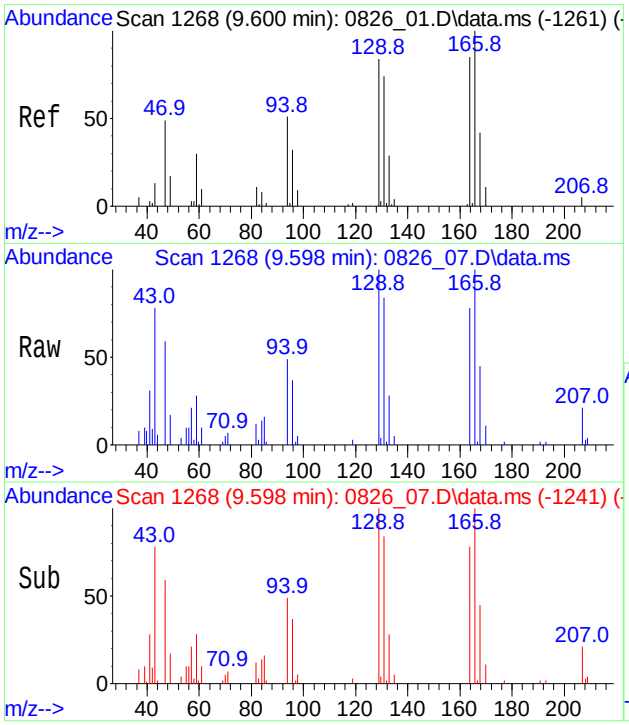


#18
Toluene
Conc: 8$ 1.389 ppbv
RT: 9.129 min Scan# 1203
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 36690

Ion	Ratio	Lower	Upper
91	100		
92	59.1	46.2	69.2
65	15.1	11.0	16.6

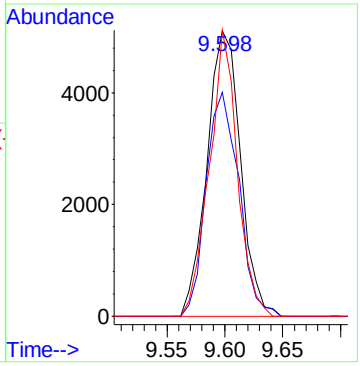


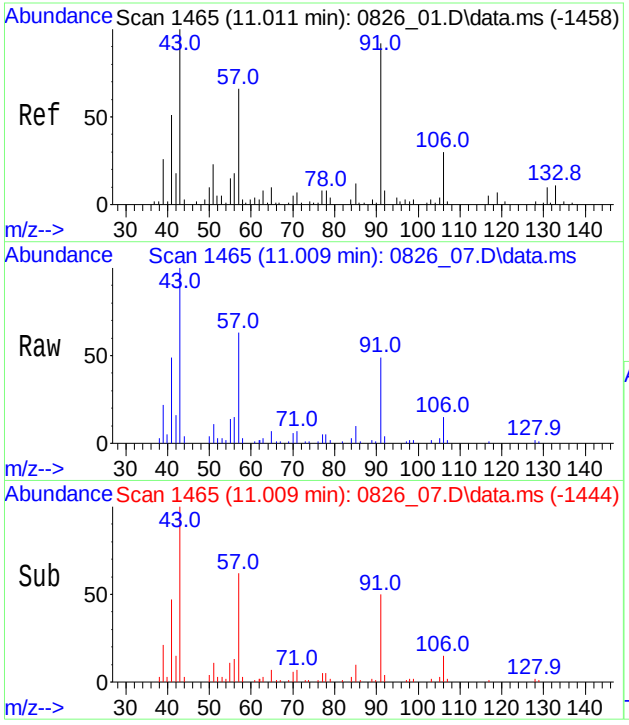


#19
Tetrachloroethene
Conc: 8$ 0.620 ppbv
RT: 9.598 min Scan# 1268
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:166 Resp: 10167

Ion	Ratio	Lower	Upper
166	100		
164	76.7	62.4	93.6
129	83.4	69.8	104.8

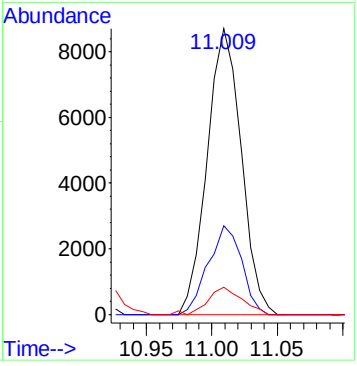


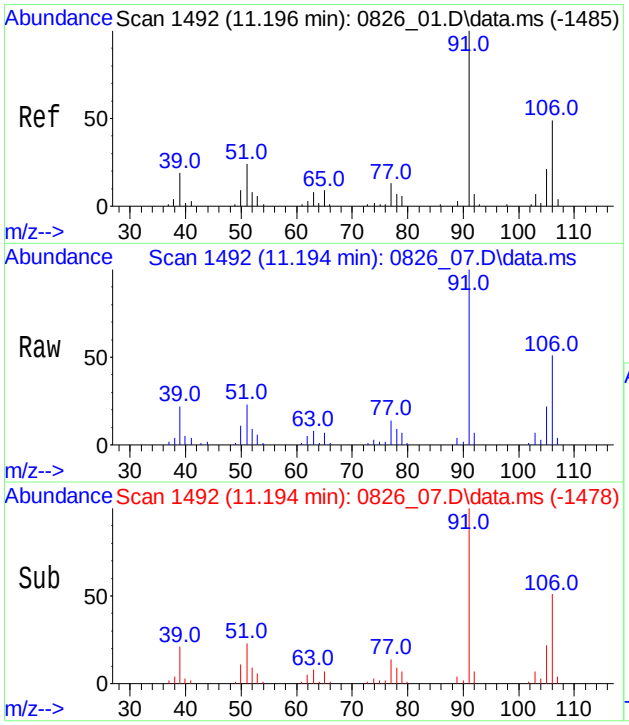


#22
Ethylbenzene
Conc: 8$ 0.431 ppbv
RT: 11.009 min Scan# 1465
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 15553

Ion	Ratio	Lower	Upper
91	100		
106	30.5	12.2	52.2
77	9.6	0.0	28.6

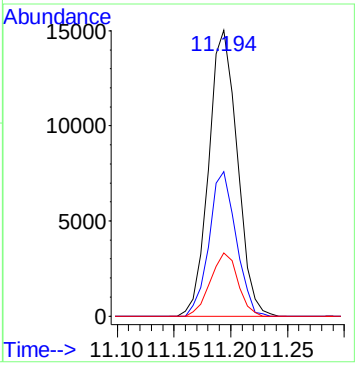


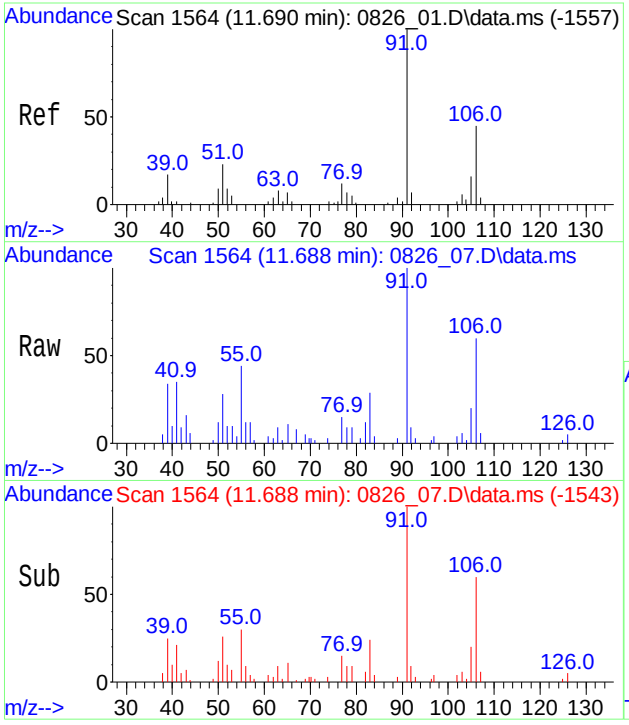


#23
m,p-Xylene
Conc: 8$ 0.949 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 26139

Ion	Ratio	Lower	Upper
91	100		
106	47.7	39.3	58.9
105	21.2	17.8	26.6

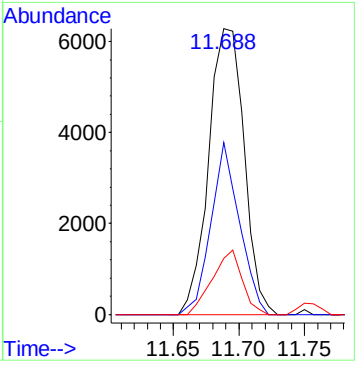


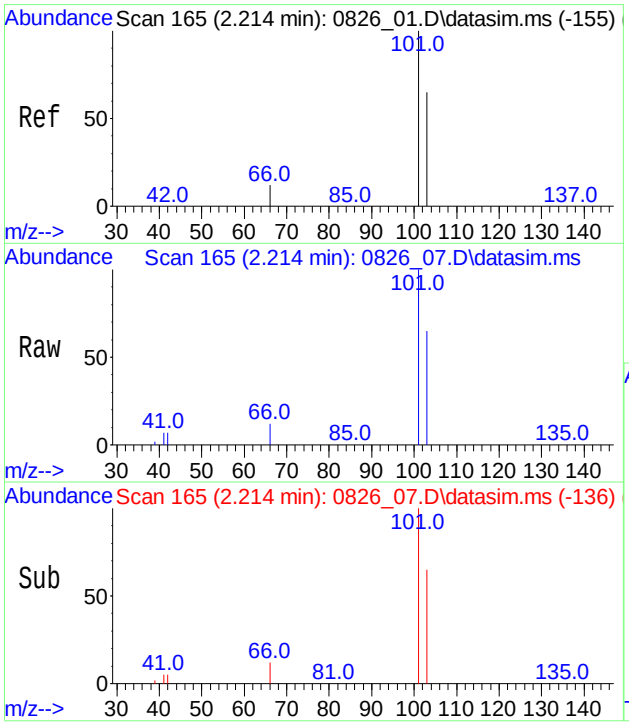


#24
o-Xylene
Conc: 8$ 0.391 ppbv
RT: 11.688 min Scan# 1564
Delta R.T. -0.007 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 11706

Ion	Ratio	Lower	Upper
91	100		
106	48.4	38.0	57.0
105	19.0	15.0	22.6

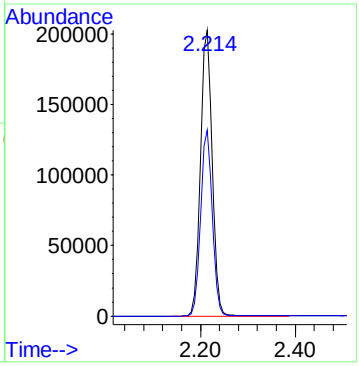


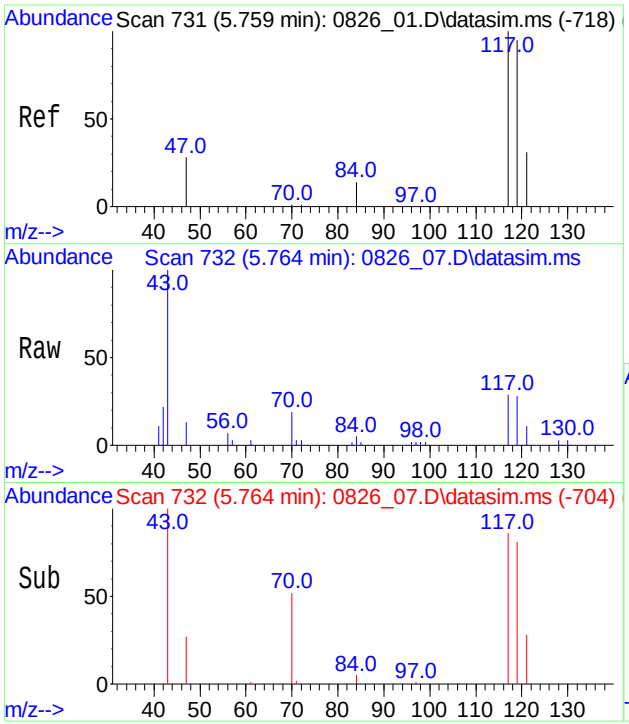


#32
Trichlorofluoromethane(sim)
Conc: 8$ 10.108 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.000 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:101 Resp: 351399

Ion	Ratio	Lower	Upper
101	100		
103	64.6	52.1	78.1

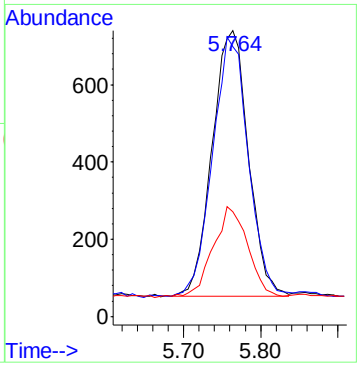


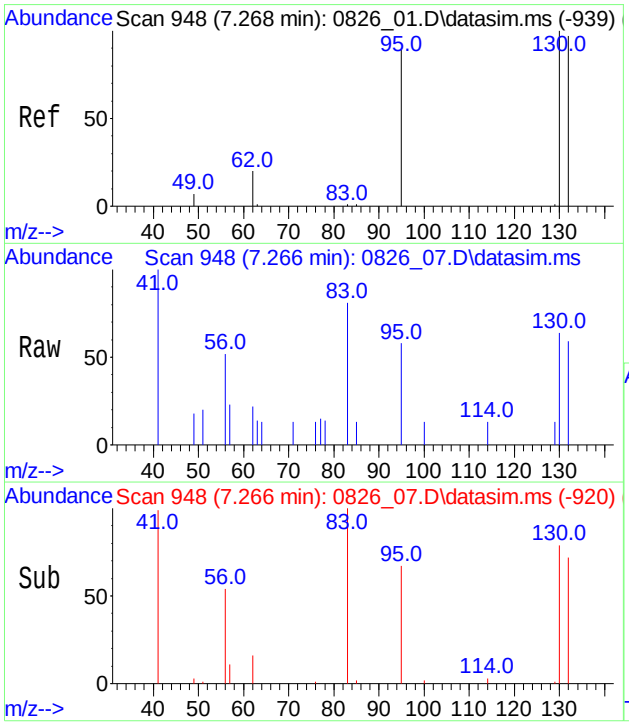


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.069 ppbv
RT: 5.764 min Scan# 732
Delta R.T. -0.000 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:117 Resp: 2247

Ion	Ratio	Lower	Upper
117	100		
119	96.6	76.7	115.1
121	31.6	25.4	38.0

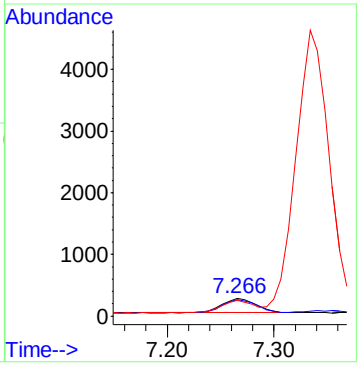


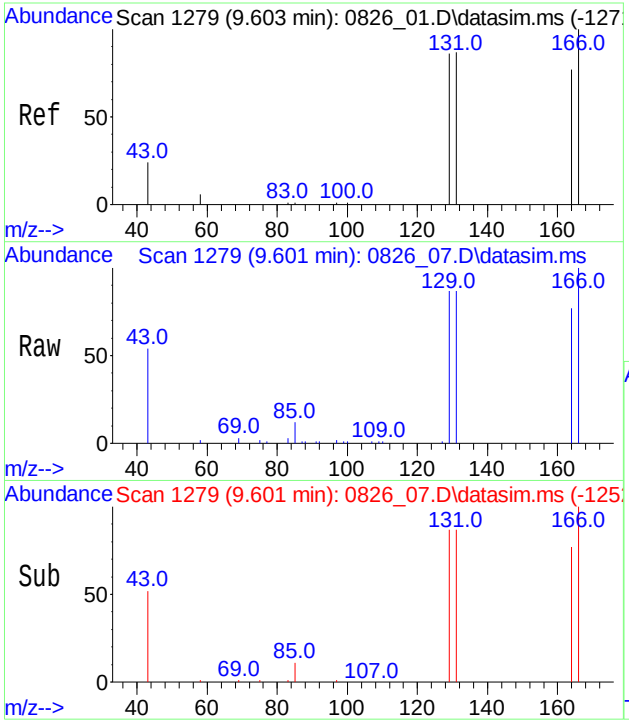


#44
Trichloroethene(sim)
Conc: 8$ 0.037 ppbv
RT: 7.266 min Scan# 948
Delta R.T. -0.011 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:130 Resp: 509

Ion	Ratio	Lower	Upper
130	100		
132	95.7	77.1	115.7
95	82.3	71.7	107.5

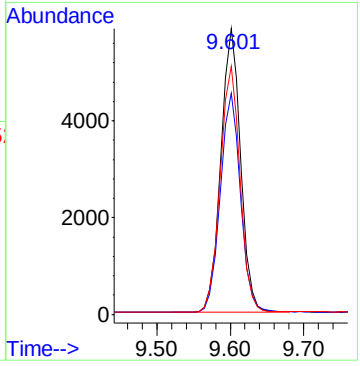


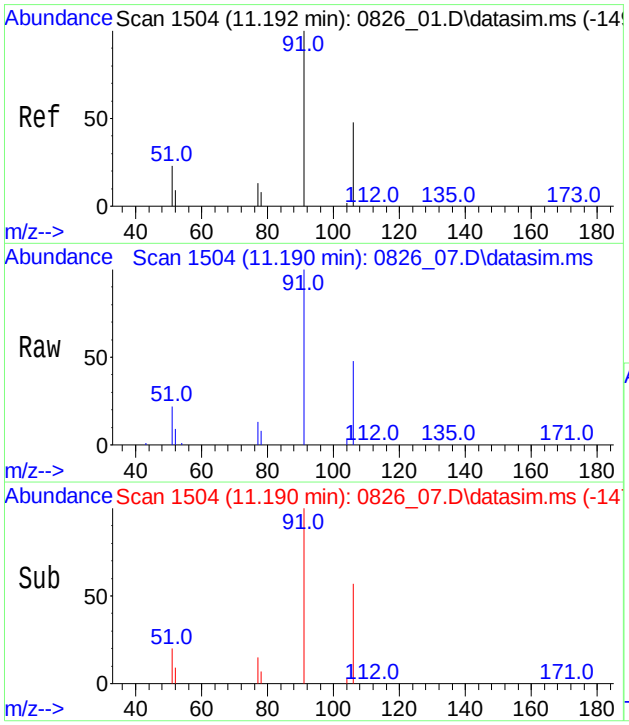


#46
Tetrachloroethene(sim)
Conc: 8$ 0.739 ppbv
RT: 9.601 min Scan# 1279
Delta R.T. -0.004 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion:166 Resp: 10932

Ion	Ratio	Lower	Upper
166	100		
164	78.7	58.0	98.0
129	87.3	67.3	107.3

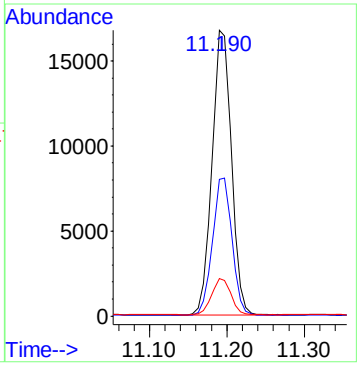




#48
m,p-Xylene(sim)
Conc: 8$ 1.074 ppbv
RT: 11.190 min Scan# 1504
Delta R.T. -0.011 min
Lab File: 0826_07.D
Acq: 26 Aug 2020 11:19 am

Tgt Ion: 91 Resp: 29008

Ion	Ratio	Lower	Upper
91	100		
106	48.6	44.2	54.0
77	12.7	10.2	15.2



1

AIR ANALYSIS DATA SHEET

CLIENT ID: CG61561 BLANK

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61561 BL

Canister: BL Lab File ID: 0826_06.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_06.D
Acq On : 26 Aug 2020 10:38 am
Operator : Keith
Client ID : CG61561 BLANK
Lab ID : CG61561 BLANK
ALS Vial : 210 Sample Multiplier: 1

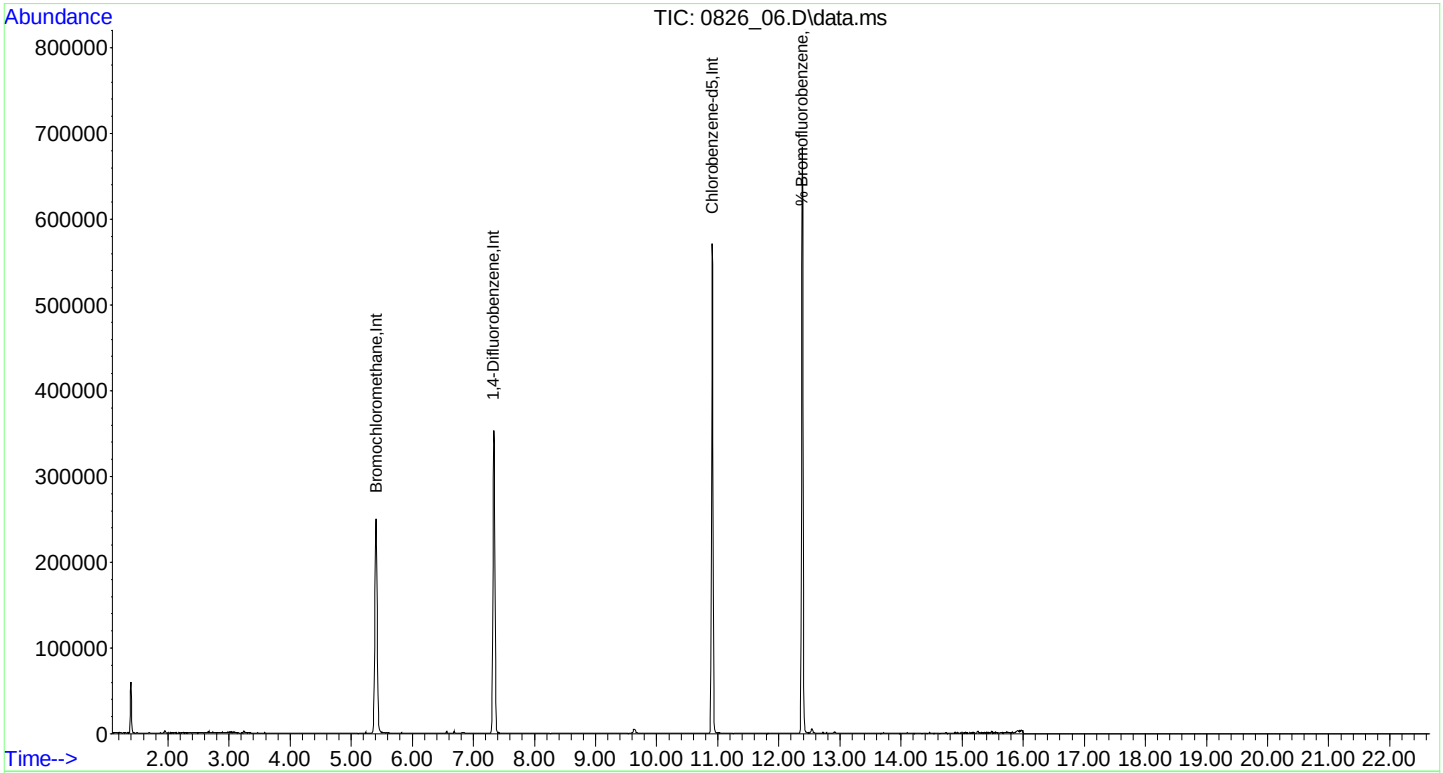
Quant Time: Oct 13 15:44:31 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

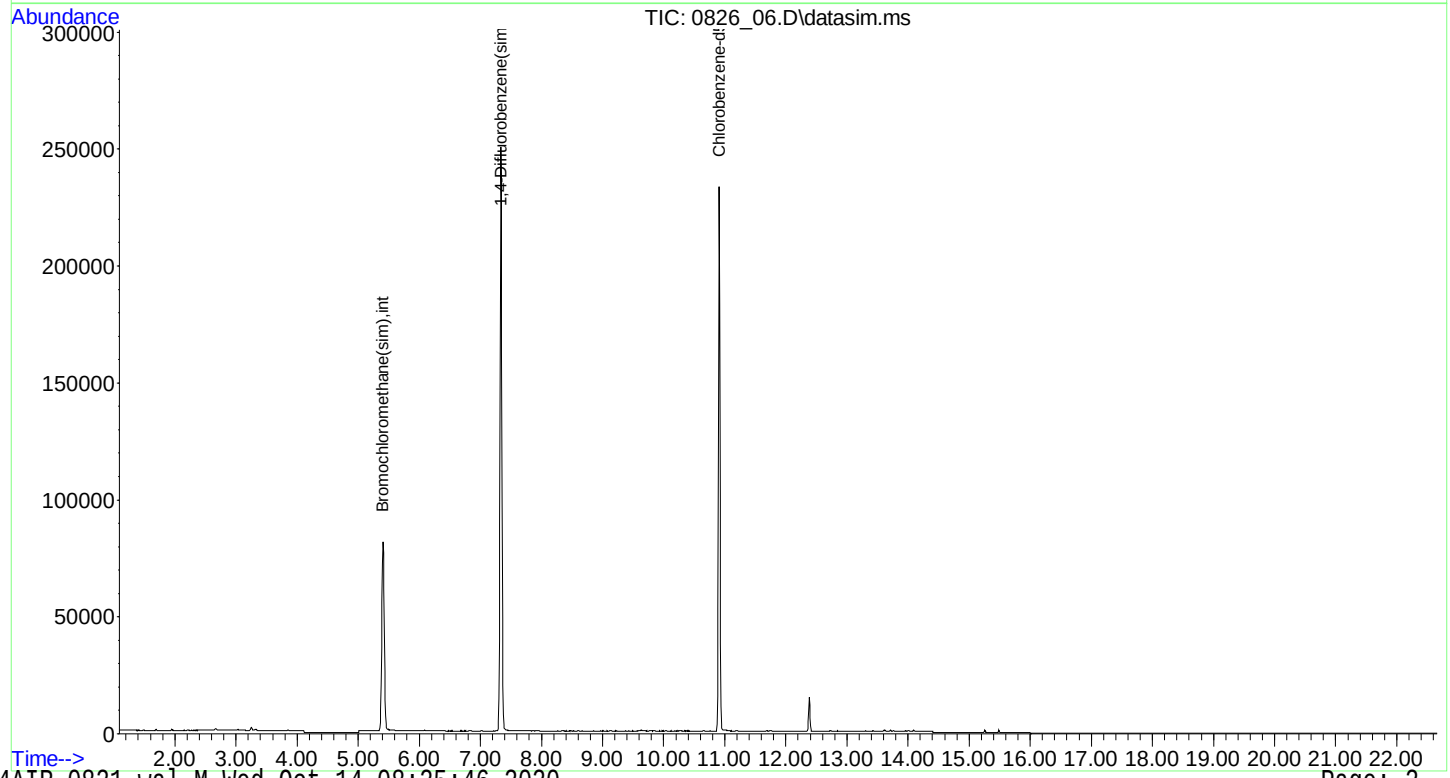
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.410	130	100132	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.333	114	309471	10.000	ng		0.00
20) Chlorobenzene-d5	10.908	82	133930	10.000	ng		0.00
30) Bromochloromethane(sim)	5.406	130	110170	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.333	114	309471	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.908	82	133930	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.383	95	207368	9.929	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	99.30%			
Target Compounds							Qvalue

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

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_06.D
Acq On : 26 Aug 2020 10:38 am
Operator : Keith
Client ID : CG61561 BLANK
Lab ID : CG61561 BLANK
ALS Vial : 210 Sample Multiplier: 1

Quant Time: Oct 13 15:44:31 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID: 61561 360cc dup

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CG61561 DUP

Canister: 9536 Lab File ID: 0826_08.D

Instrument: CHEM24 Column: RTX-VMS Date Received: 08/25/20

Purge Volume 200 (cc) Date Analyzed: 08/26/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.388		0.200	0.200	r
67-64-1	Acetone	6.65	S	1.00	1.00	r
75-69-4	Trichlorofluoromethane	11.2		0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.454		0.050	0.050	r
108-88-3	Toluene	1.37		0.200	0.200	r
127-18-4	Tetrachloroethene	0.540		0.100	0.100	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.405		0.150	0.150	r
179601-23-1	m,p-Xylene	0.910		0.150	0.150	r
95-47-6	o-Xylene	0.373		0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene	0.250	U	0.250	0.250	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.067		0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_08.D
Acq On : 26 Aug 2020 12:00 pm
Operator : Keith
Client ID : 61561 360cc dup
Lab ID : CG61561 DUP
ALS Vial : 212 Sample Multiplier: 1

Quant Time: Oct 13 15:44:37 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration

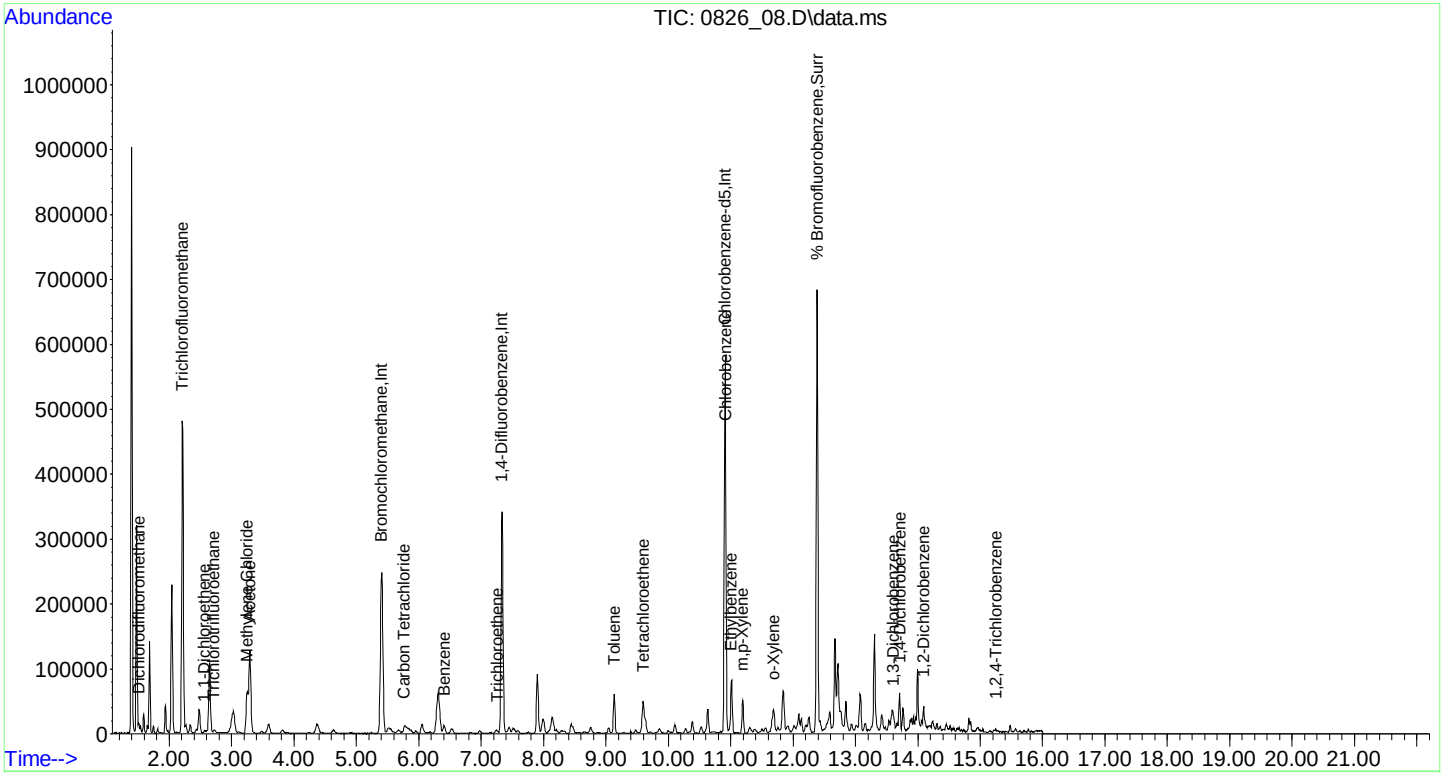
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	5.407	130	97459	10.000	ng		0.00
15) 1,4-Difluorobenzene	7.338	114	295353	10.000	ng		0.00
20) Chlorobenzene-d5	10.913	82	132983	10.000	ng		0.00
30) Bromochloromethane(sim)	5.410	130	106507	10.000	ng	#	0.00
41) 1,4-Difluorobenzene(sim)	7.338	114	295353	10.000	ng		0.00
47) Chlorobenzene-d5(sim)	10.913	82	132983	10.000	ng		0.00
System Monitoring Compounds							
25) % Bromofluorobenzene	12.387	95	203321	9.804	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.512	85	6822	0.388	ppbv		99
4) Acetone	3.292	43	190809	6.648	ppbv		93
5) Trichlorofluoromethane	2.211	101	329945	11.180	ppbv		100
13) Benzene	6.407	78	8450	0.454	ppbv		92
14) Carbon Tetrachloride	5.761	117	2295	0.081	ppbv		90
18) Toluene	9.136	91	37895	1.367	ppbv		100
19) Tetrachloroethene	9.598	166	9300	0.540	ppbv		88
22) Ethylbenzene	11.009	91	15493	0.405	ppbv		96
23) m,p-Xylene	11.194	91	26583	0.910	ppbv		99
24) o-Xylene	11.688	91	11828	0.373	ppbv		96
32] Trichlorofluoromethane...	2.214	101	357519	9.942	ppbv		99
34] Carbon Tetrachloride(sim)	5.764	117	2252	0.067	ppbv		96
44] Trichloroethene(sim)	7.265	130	529	0.036	ppbv		98
46] Tetrachloroethene(sim)	9.601	166	11090	0.714	ppbv		99
48] m,p-Xylene(sim)	11.190	91	29058	1.015	ppbv		100

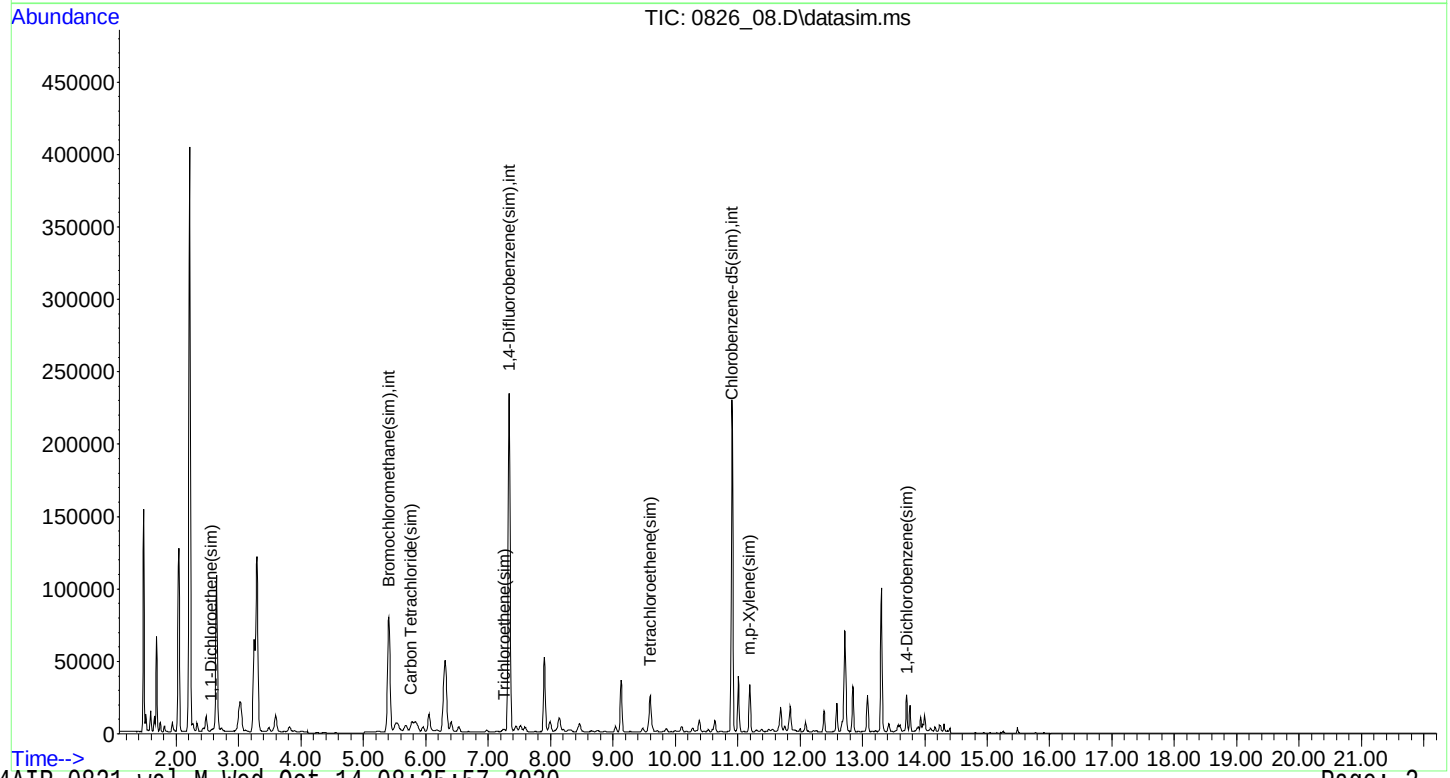
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

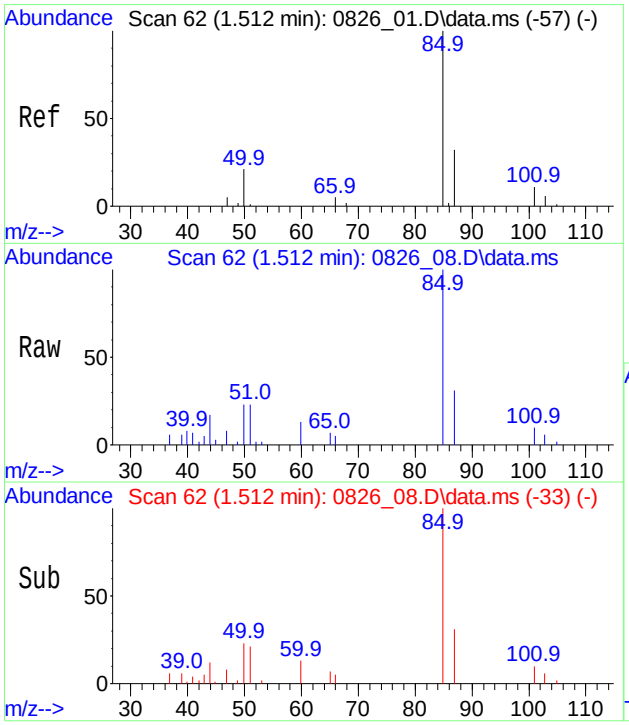
Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM24\08AUG\24\
Data File : 0826_08.D
Acq On : 26 Aug 2020 12:00 pm
Operator : Keith
Client ID : 61561 360cc dup
Lab ID : CG61561 DUP
ALS Vial : 212 Sample Multiplier: 1

Quant Time: Oct 13 15:44:37 2020
Quant Method : H:\AIR2020\CHEM24\METHODS\24AIR_0821_wal.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Tue Oct 13 15:38:18 2020
Response via : Initial Calibration



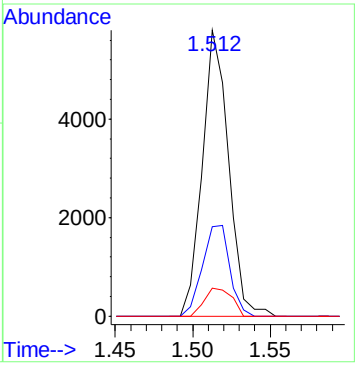


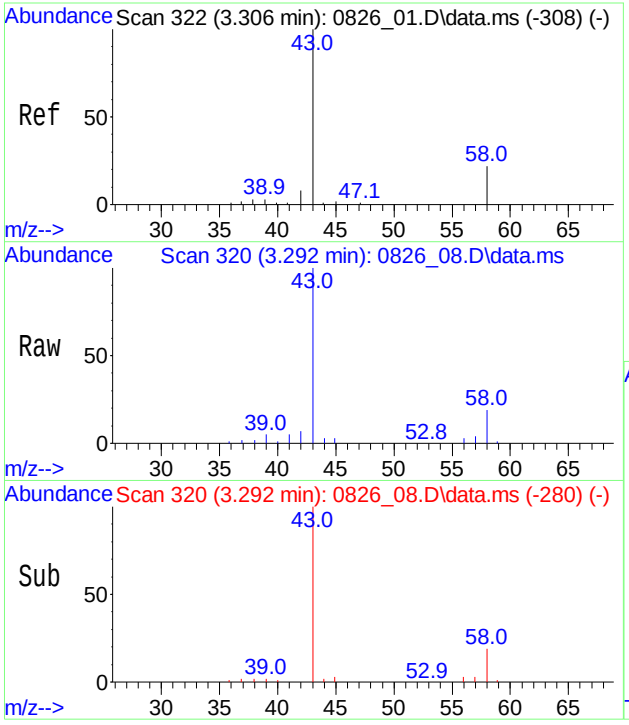


#2
Dichlorodifluoromethane
Conc: 8$ 0.388 ppbv
RT: 1.512 min Scan# 62
Delta R.T. -0.001 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 85 Resp: 6822

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.1	39.1
101	10.2	8.4	12.6

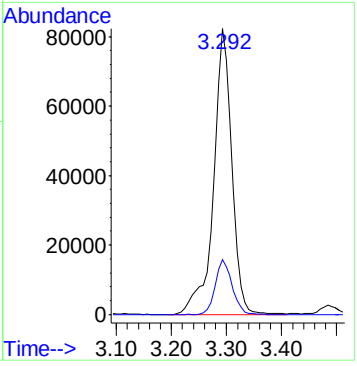


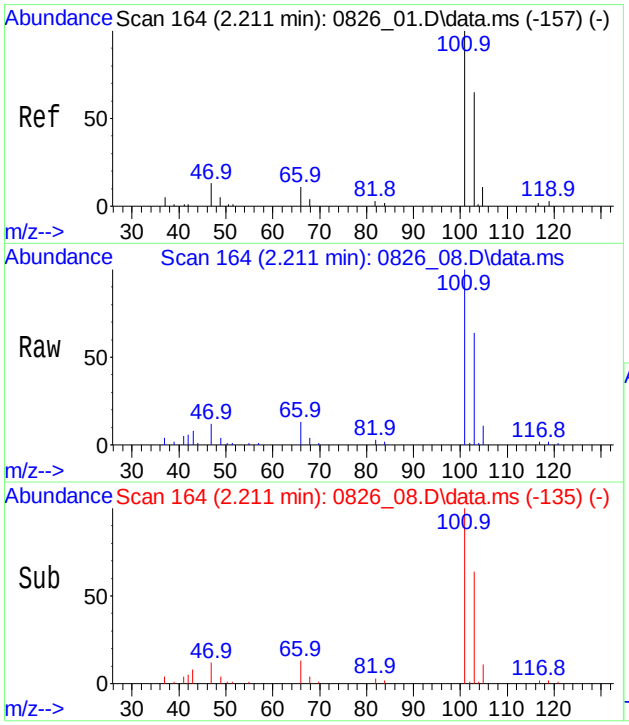


#4
Acetone
Conc: 8$ 6.648 ppbv
RT: 3.292 min Scan# 320
Delta R.T. -0.028 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 43 Resp: 190809

Ion	Ratio	Lower	Upper
43	100		
58	17.7	16.7	25.1

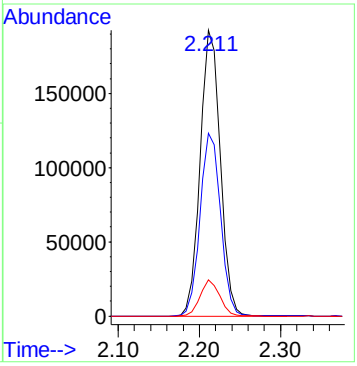


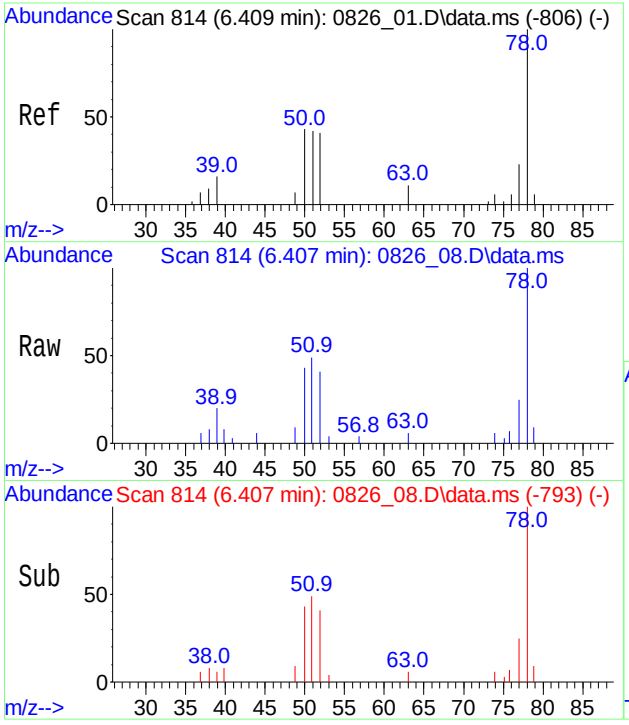


#5
Trichlorofluoromethane
Conc: 8$ 11.180 ppbv
RT: 2.211 min Scan# 164
Delta R.T. 0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:101 Resp: 329945

Ion	Ratio	Lower	Upper
101	100		
103	65.0	52.1	78.1
66	12.3	9.8	14.6

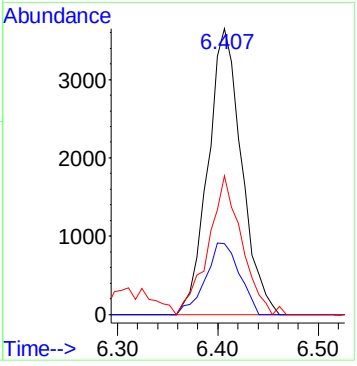


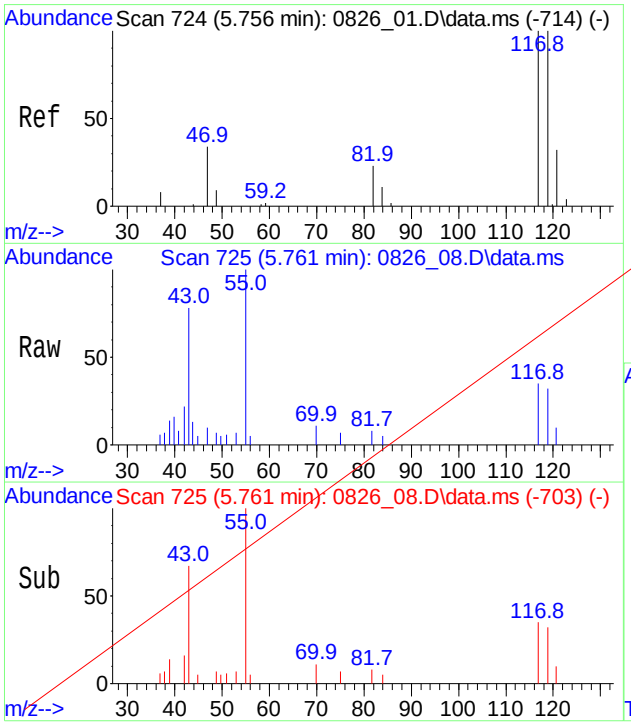


#13
Benzene
Conc: 8$ 0.454 ppbv
RT: 6.407 min Scan# 814
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 78 Resp: 8450

Ion	Ratio	Lower	Upper
78	100		
77	25.3	19.0	28.6
51	48.2	33.0	49.6

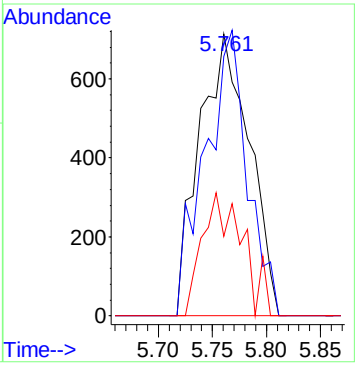


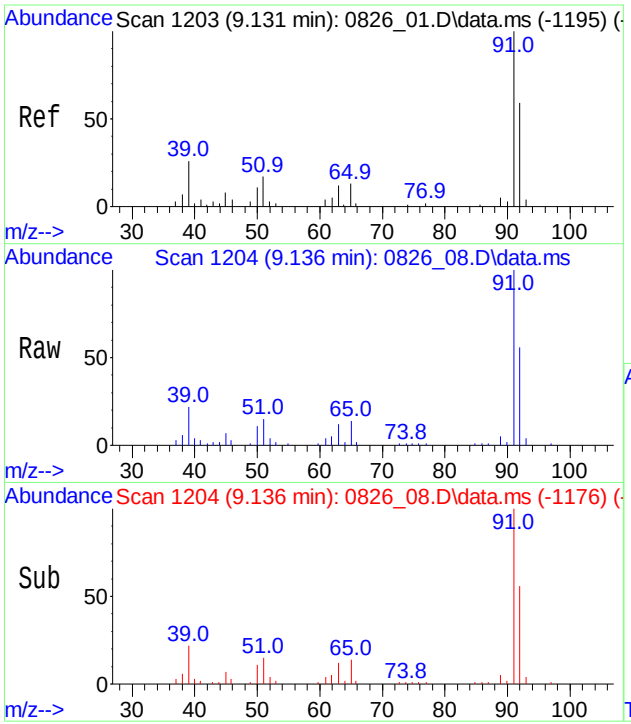


#14
Carbon Tetrachloride
Conc: 8$ Below Cal
RT: 5.761 min Scan# 725
Delta R.T. 0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:117 Resp: 2295

Ion	Ratio	Lower	Upper
117	100		
119	85.5	76.4	116.4
121	35.3	11.9	51.9

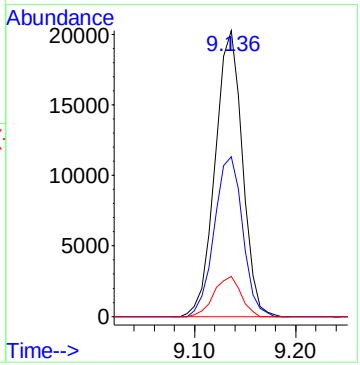


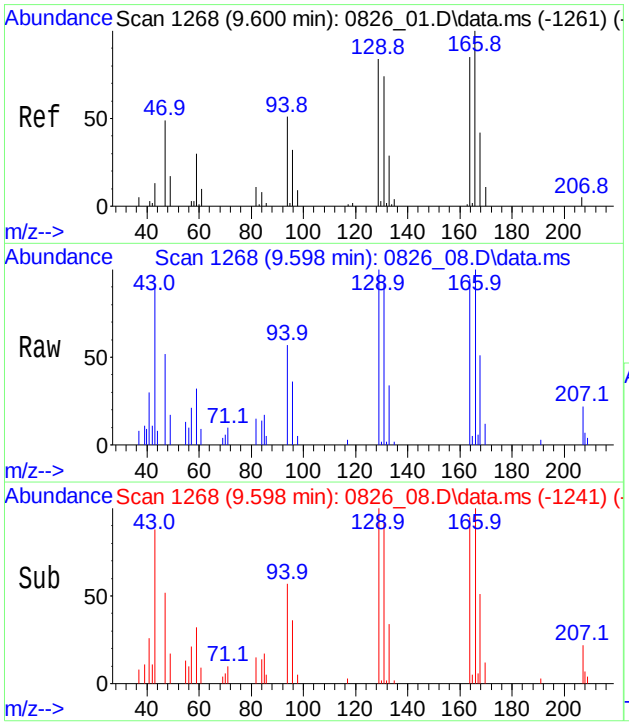


#18
Toluene
Conc: 8$ 1.367 ppbv
RT: 9.136 min Scan# 1204
Delta R.T. -0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 37895

Ion	Ratio	Lower	Upper
91	100		
92	58.1	46.2	69.2
65	13.7	11.0	16.6

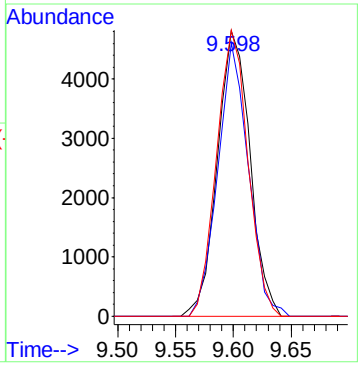


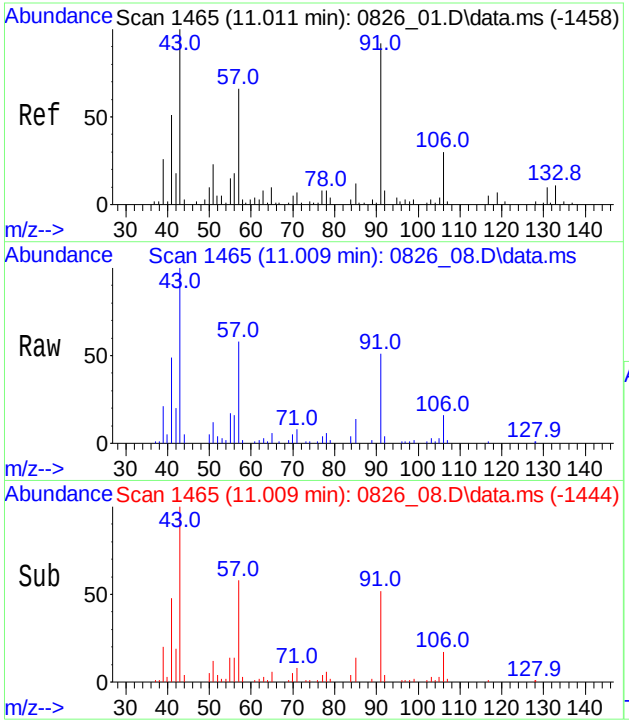


#19
Tetrachloroethene
Conc: 8$ 0.540 ppbv
RT: 9.598 min Scan# 1268
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:166 Resp: 9300

Ion	Ratio	Lower	Upper
166	100		
164	90.0	62.4	93.6
129	96.8	69.8	104.8

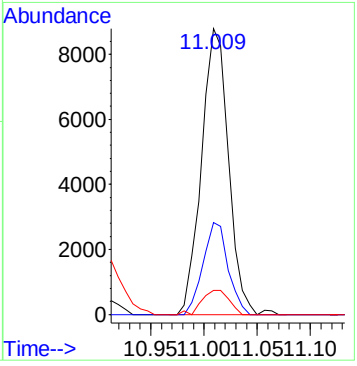


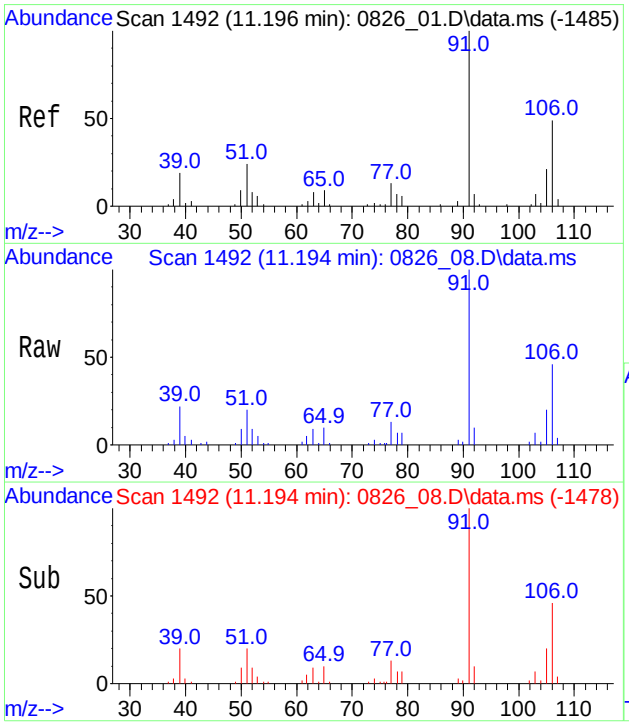


#22
Ethylbenzene
Conc: 8$ 0.405 ppbv
RT: 11.009 min Scan# 1465
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 15493

Ion	Ratio	Lower	Upper
91	100		
106	29.7	12.2	52.2
77	8.5	0.0	28.6

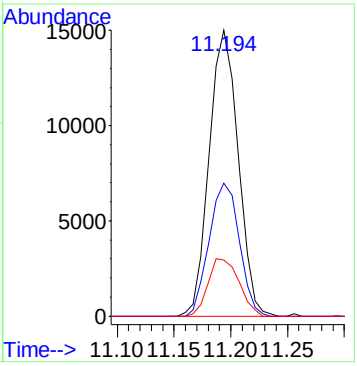


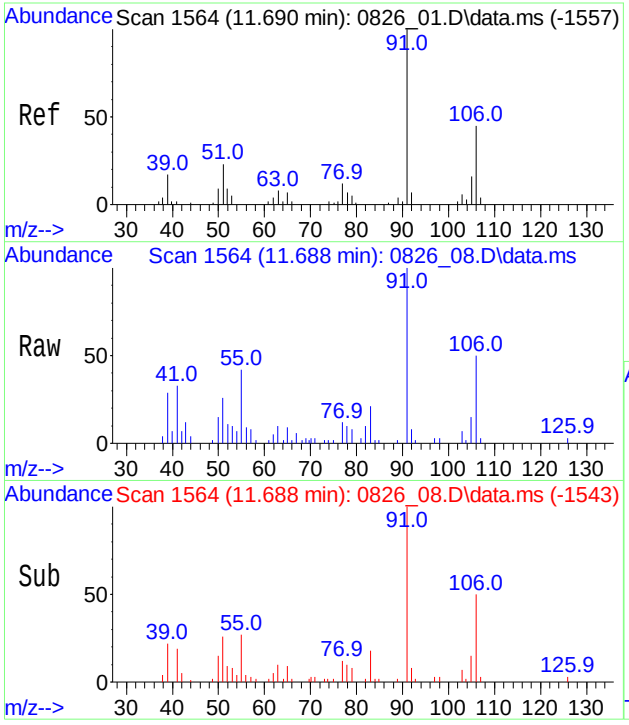


#23
m,p-Xylene
Conc: 8$ 0.910 ppbv
RT: 11.194 min Scan# 1492
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 26583

Ion	Ratio	Lower	Upper
91	100		
106	48.5	39.3	58.9
105	21.5	17.8	26.6

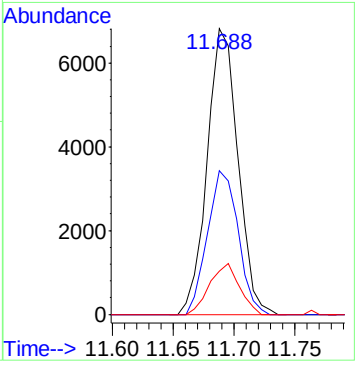


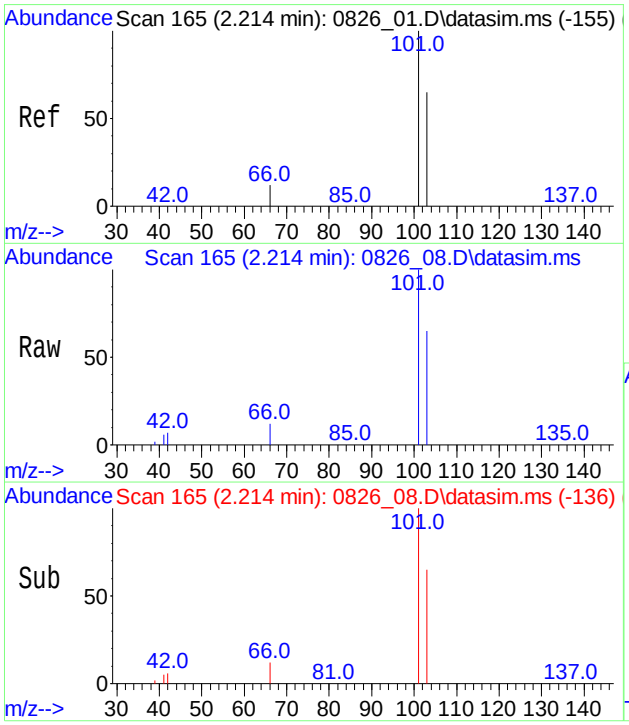


#24
o-Xylene
Conc: 8$ 0.373 ppbv
RT: 11.688 min Scan# 1564
Delta R.T. -0.007 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 11828

Ion	Ratio	Lower	Upper
91	100		
106	50.1	38.0	57.0
105	17.2	15.0	22.6

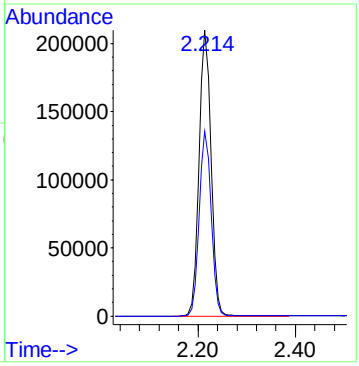


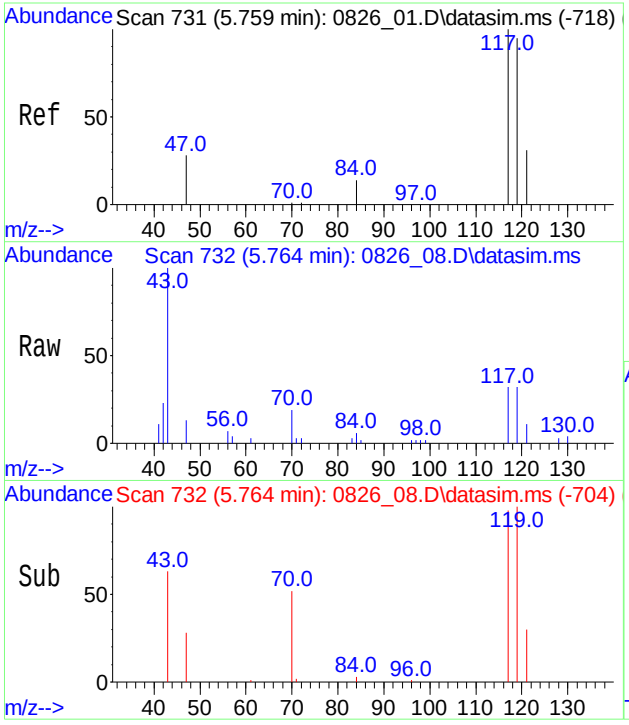


#32
Trichlorofluoromethane(sim)
Conc: 8$ 9.942 ppbv
RT: 2.214 min Scan# 165
Delta R.T. 0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:101 Resp: 357519

Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.1	78.1

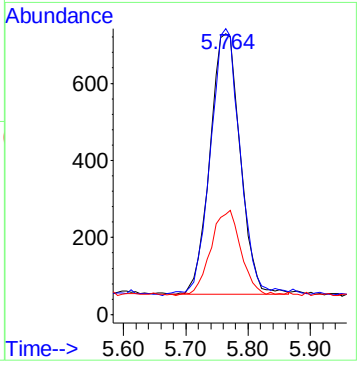


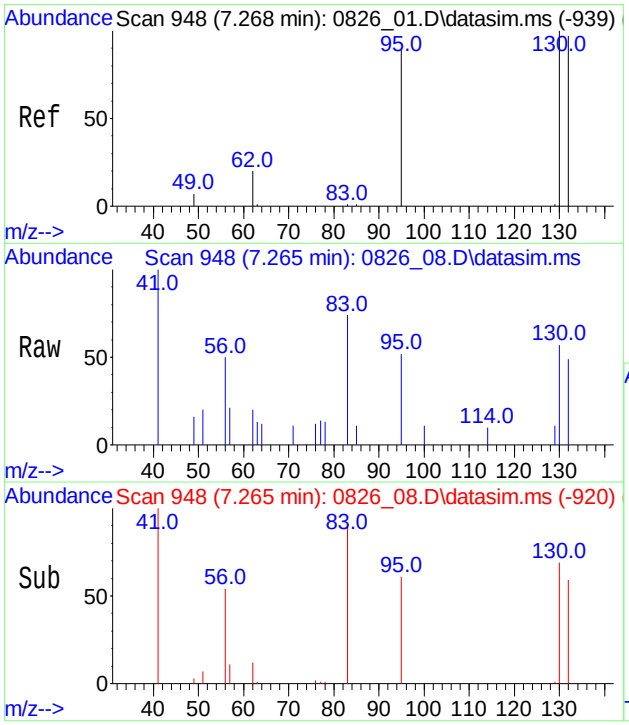


#34
Carbon Tetrachloride(sim)
Conc: 8$ 0.067 ppbv
RT: 5.764 min Scan# 732
Delta R.T. -0.000 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:117 Resp: 2252

Ion	Ratio	Lower	Upper
117	100		
119	100.4	76.7	115.1
121	32.9	25.4	38.0

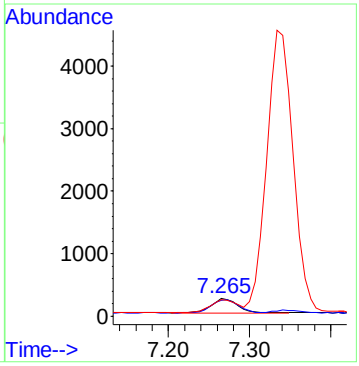


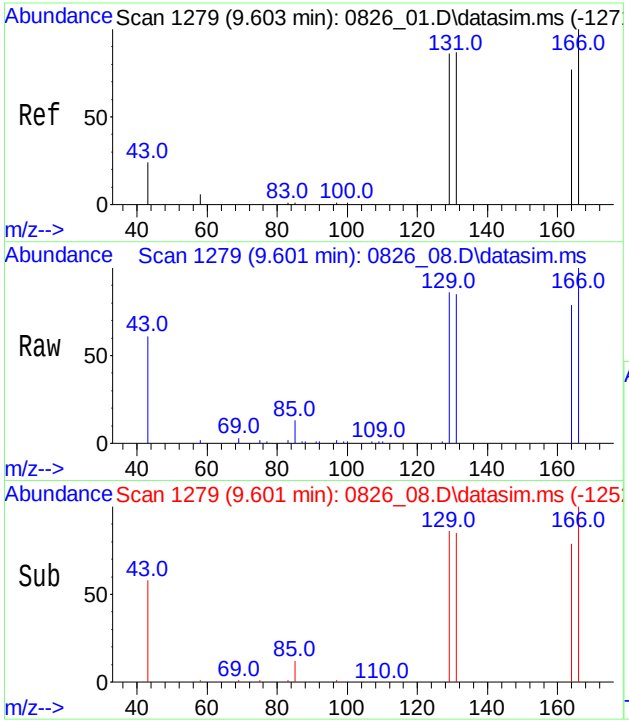


#44
Trichloroethene(sim)
Conc: 8$ 0.036 ppbv
RT: 7.265 min Scan# 948
Delta R.T. -0.012 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:130 Resp: 529

Ion	Ratio	Lower	Upper
130	100		
132	94.5	77.1	115.7
95	91.7	71.7	107.5

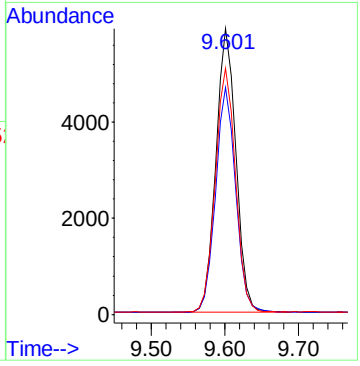


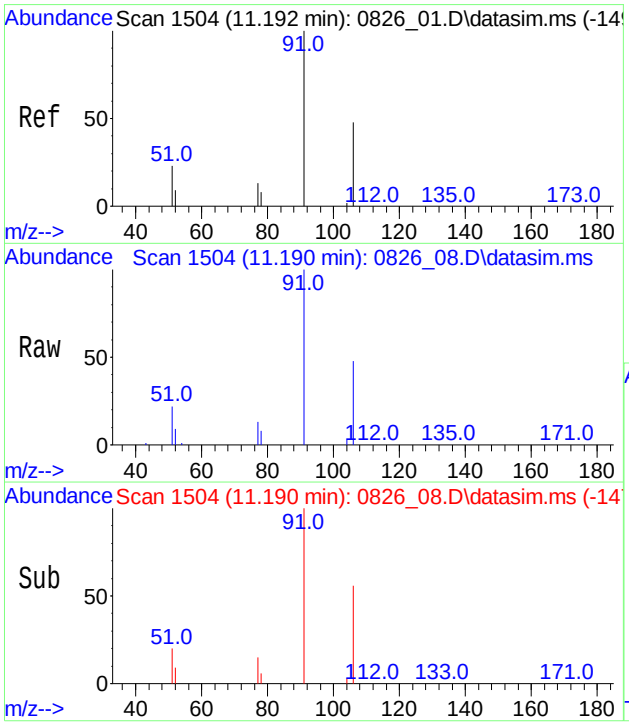


#46
Tetrachloroethene(sim)
Conc: 8$ 0.714 ppbv
RT: 9.601 min Scan# 1279
Delta R.T. -0.004 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion:166 Resp: 11090

Ion	Ratio	Lower	Upper
166	100		
164	79.7	58.0	98.0
129	87.0	67.3	107.3

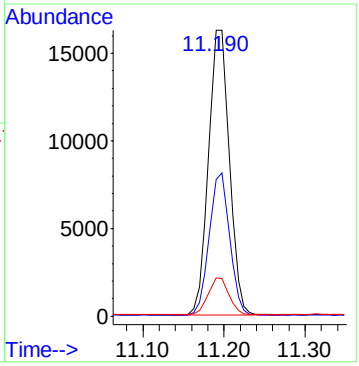




#48
m,p-Xylene(sim)
Conc: 8$ 1.015 ppbv
RT: 11.190 min Scan# 1504
Delta R.T. -0.011 min
Lab File: 0826_08.D
Acq: 26 Aug 2020 12:00 pm

Tgt Ion: 91 Resp: 29058

Ion	Ratio	Lower	Upper
91	100		
106	48.9	44.2	54.0
77	12.9	10.2	15.2



1

CLIENT ID

AIR ANALYSIS DATA SHEET

CANISTER BLK 12855

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CANISTER BLK 12855

Canister: CANBL Lab File ID: 0504_14.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 05/14/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\05MAY\04\
Data File : 0504_14.D
Acq On : 5 May 2020 7:00 am
Operator :
Client ID : CANISTER BLK 12855
Lab ID : CANISTER BLK 12855
ALS Vial : 18 Sample Multiplier: 1

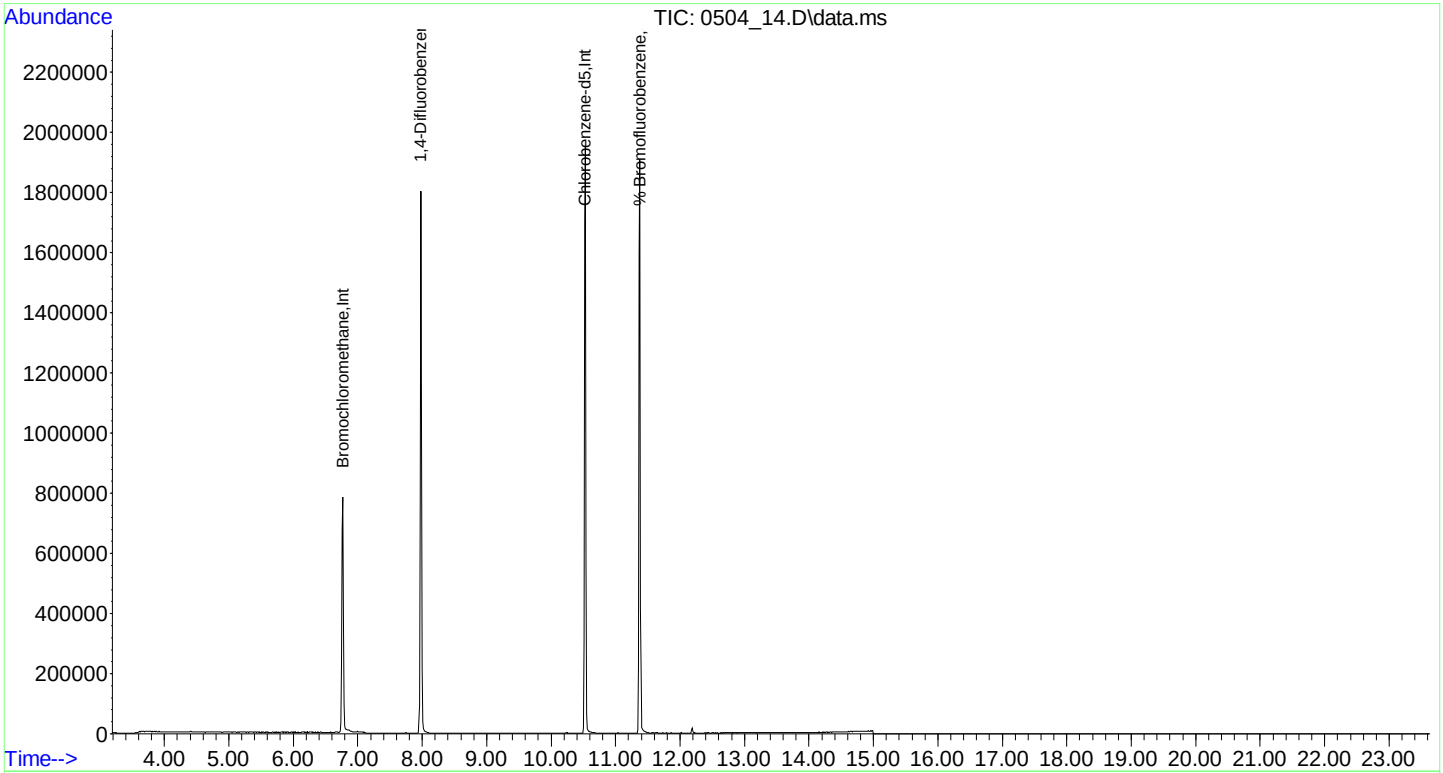
Quant Time: May 06 10:47:04 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0407.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 08 16:16:46 2020
Response via : Initial Calibration

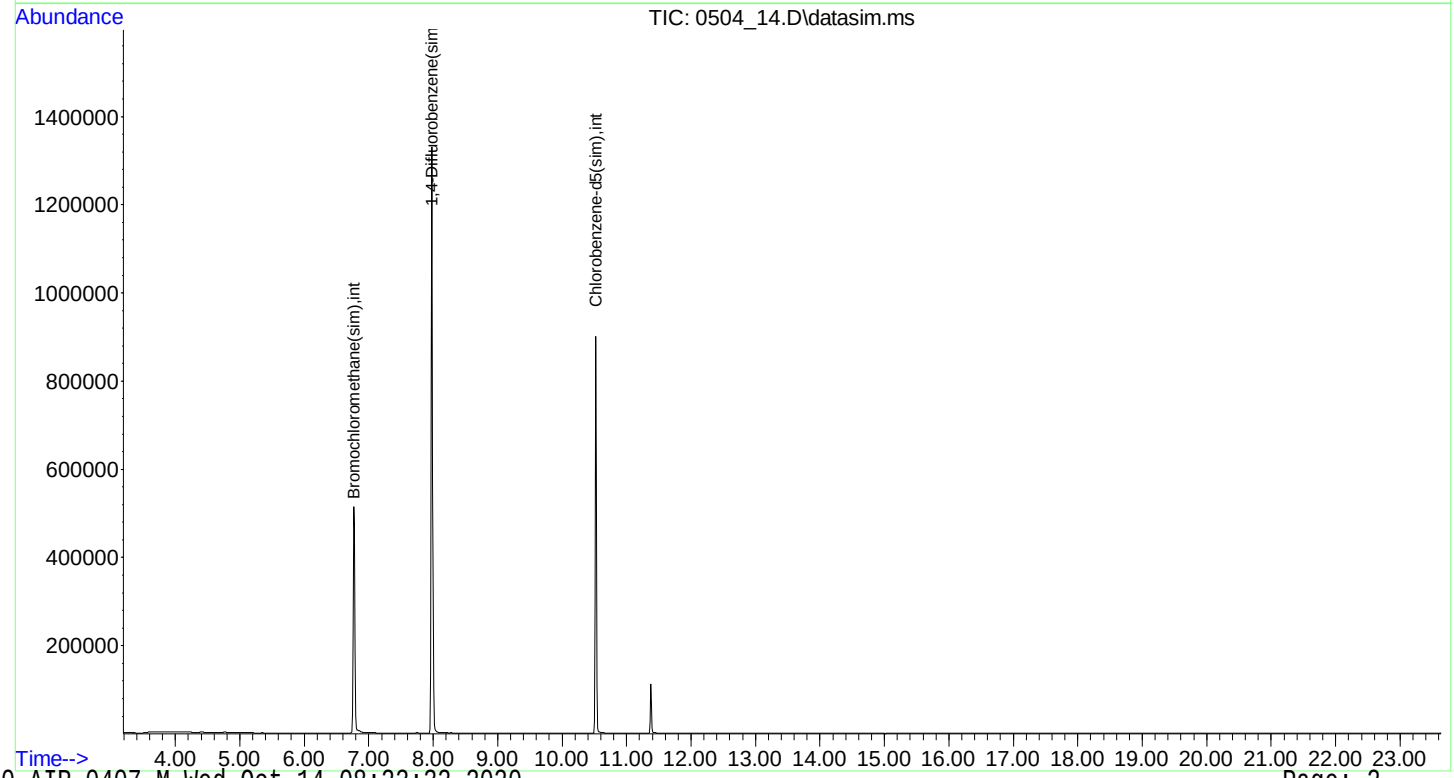
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.769	130	250913	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.976	114	1008605	10.000	ng		0.00
53) Chlorobenzene-d5	10.528	82	502658	10.000	ng		0.00
80) Bromochloromethane(sim)	6.775	130	258583	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.982	114	1154515	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.524	82	549651	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	11.379	95	532776	8.573	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.70%				
Target Compounds							Qvalue
82] Vinyl Chloride(sim)	3.700	62	160	0.006	ppbv	#	78

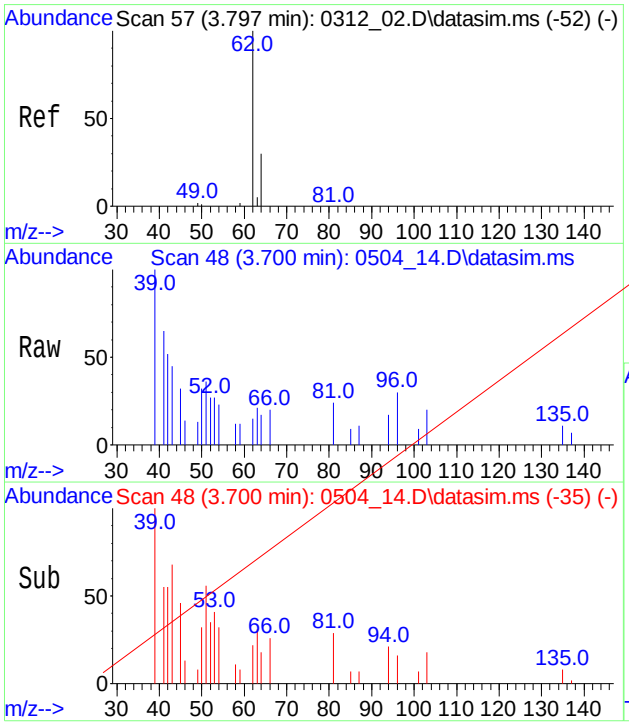
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Data Path : H:\AIR2020\CHEM20\05MAY\04\
Data File : 0504_14.D
Acq On : 5 May 2020 7:00 am
Operator :
Client ID : CANISTER BLK 12855
Lab ID : CANISTER BLK 12855
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 06 10:47:04 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0407.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Wed Apr 08 16:16:46 2020
Response via : Initial Calibration



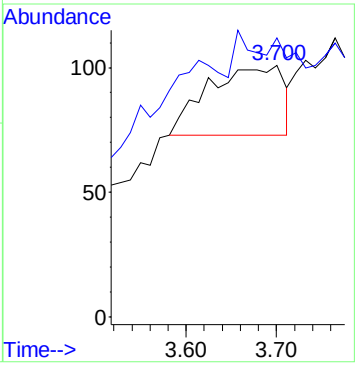




#82
Vinyl Chloride(sim)
Conc: 8$ Below Cal
RT: 3.700 min Scan# 48
Delta R.T. -0.065 min
Lab File: 0504_14.D
Acq: 5 May 2020 7:00 am

Tgt Ion: 62 Resp: 160

Ion	Ratio	Lower	Upper
62	100		
64	20.0	25.6	38.4#



1

CLIENT ID

AIR ANALYSIS DATA SHEET

CANISTER BLK 13652

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CANISTER BLK 13652

Canister: CANBL Lab File ID: 0729_27.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 07/30/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\07JUL\29\
Data File : 0729_27.D
Acq On : 30 Jul 2020 6:03 pm
Operator :
Client ID : CANISTER BLK 13652
Lab ID : CANISTER BLK 13652
ALS Vial : 27 Sample Multiplier: 1

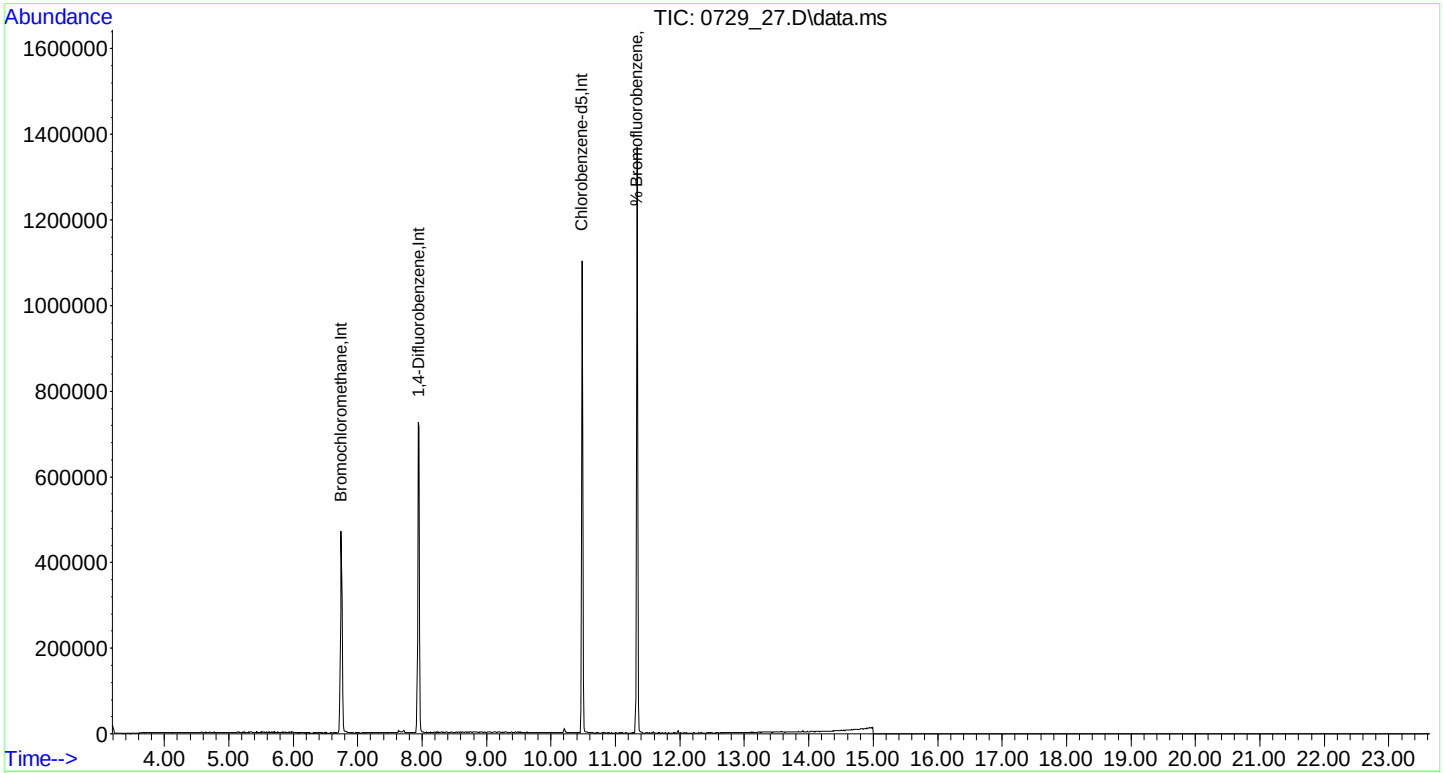
Quant Time: Jul 31 11:02:50 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0729.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Jul 30 09:03:16 2020
Response via : Initial Calibration

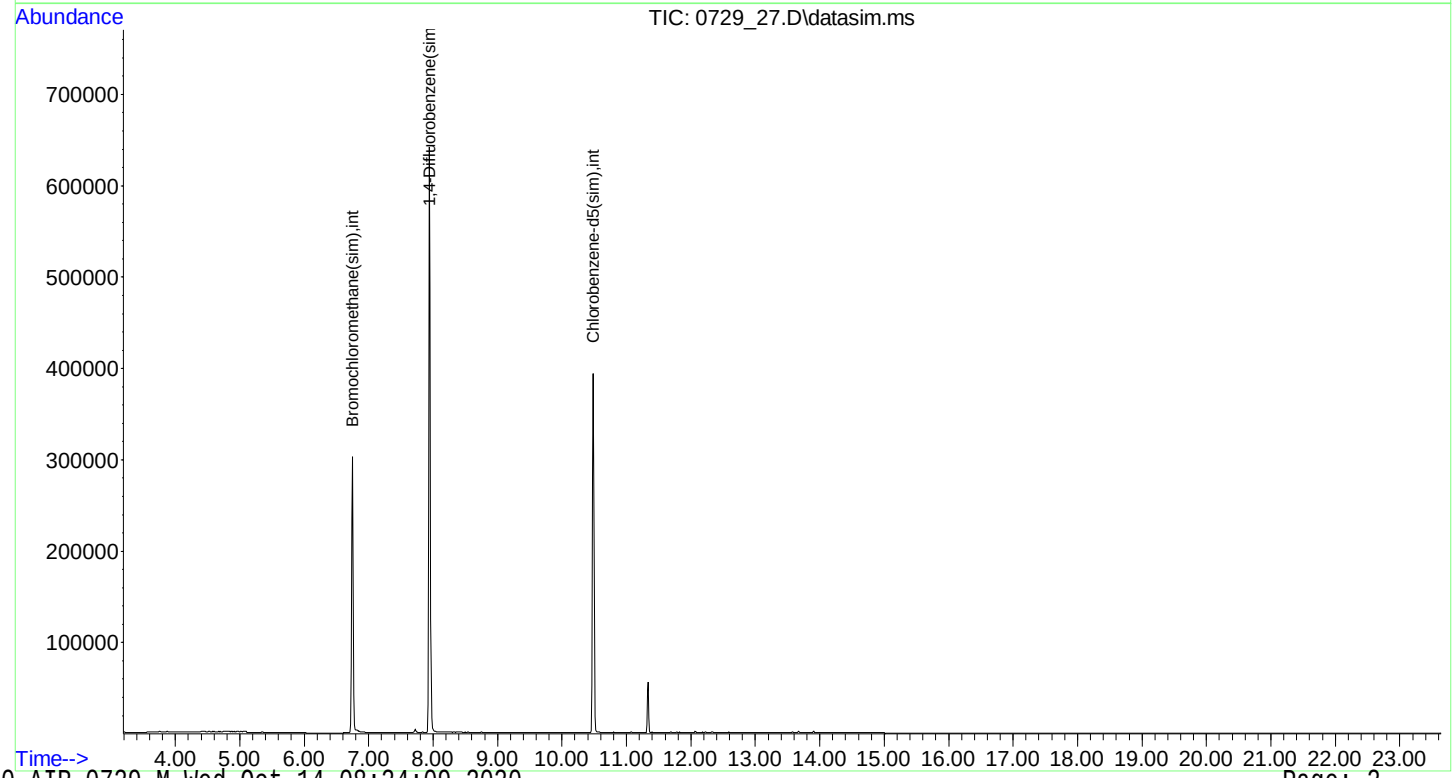
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	6.744	130	168152	10.000	ng	0.00
36) 1,4-Difluorobenzene	7.949	114	611800	10.000	ng	0.00
53) Chlorobenzene-d5	10.482	82	263905	10.000	ng	0.00
80) Bromochloromethane(sim)	6.750	130	176327	10.000	ng	# 0.00
94) 1,4-Difluorobenzene(sim)	7.943	114	675067	10.000	ng	-0.01
104) Chlorobenzene-d5(sim)	10.488	82	286444	10.000	ng	0.00
System Monitoring Compounds						
62) % Bromofluorobenzene	11.333	95	341277	10.049	ppbv	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.50%			
Target Compounds						Qvalue

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

Data Path : H:\AIR2020\CHEM20\07JUL\29\
Data File : 0729_27.D
Acq On : 30 Jul 2020 6:03 pm
Operator :
Client ID : CANISTER BLK 13652
Lab ID : CANISTER BLK 13652
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Jul 31 11:02:50 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0729.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Thu Jul 30 09:03:16 2020
Response via : Initial Calibration





1

AIR ANALYSIS DATA SHEET

CLIENT ID

CANISTER BLK 23348

Client: WALDENE-IPARK Lab: Phoenix Env. Labs

SDG No.: GCG61563 Lab Sample ID: CANISTER BLK 23348

Canister: CANBL Lab File ID: 0624_07.D

Instrument: CHEM20 Column: Date Received:

Purge Volume 200 (cc) Date Analyzed: 06/24/20

Matrix: AIR Dilution Factor: 1

CONCENTRATION UNITS: (ppbv or ug/m3) ppbv

CAS NO.	COMPOUND	CONC.	Q	MDL	PQL	R
75-71-8	Dichlorodifluoromethane	0.200	U	0.200	0.200	r
67-64-1	Acetone	1.00	U	1.00	1.00	r
75-69-4	Trichlorofluoromethane	0.150	U	0.150	0.150	r
75-09-2	Methylene Chloride	0.400	U	0.400	0.400	r
76-13-1	Trichlorotrifluoroethane	0.150	U	0.150	0.150	r
71-55-6	1,1,1-Trichloroethane	0.200	U	0.200	0.200	r
71-43-2	Benzene	0.050	U	0.050	0.050	r
108-88-3	Toluene	0.200	U	0.200	0.200	r
108-90-7	Chlorobenzene	0.200	U	0.200	0.200	r
100-41-4	Ethylbenzene	0.150	U	0.150	0.150	r
95-47-6	o-Xylene	0.150	U	0.150	0.150	r
541-73-1	1,3-Dichlorobenzene	0.150	U	0.150	0.150	r
95-50-1	1,2-Dichlorobenzene	0.150	U	0.150	0.150	r
75-01-4	Vinyl Chloride(sim)	0.020	U	0.020	0.020	r
56-23-5	Carbon Tetrachloride(sim)	0.020	U	0.020	0.020	r
75-35-4	1,1-Dichloroethene(sim)	0.050	U	0.050	0.050	r
156-59-2	Cis-1,2-Dichloroethene(sim)	0.050	U	0.050	0.050	r
79-01-6	Trichloroethene(sim)	0.037	U	0.037	0.037	r
127-18-4	Tetrachloroethene(sim)	0.100	U	0.100	0.100	r
179601-23-1	m,p-Xylene(sim)	0.150	U	0.150	0.150	r
106-46-7	1,4-Dichlorobenzene(sim)	0.150	U	0.150	0.150	r
120-82-1	1,2,4-Trichlorobenzene(sim)	0.250	U	0.250	0.250	r

FORM I AIR

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

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\
Data File : 0624_07.D
Acq On : 24 Jun 2020 3:29 pm
Operator :
Client ID : CANISTER BLK 23348
Lab ID : CANISTER BLK 23348
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 25 09:16:54 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0615.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Jun 15 14:41:22 2020
Response via : Initial Calibration

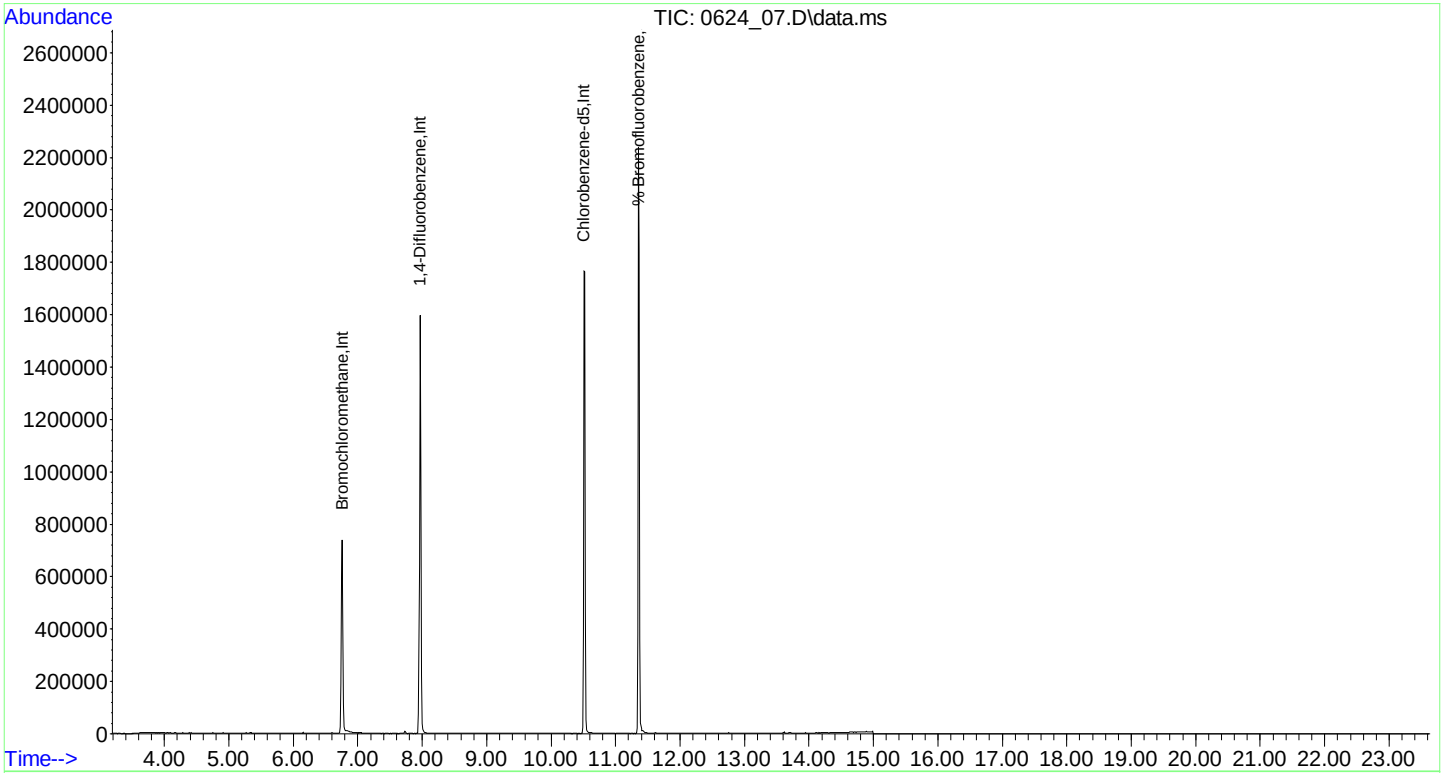
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	6.759	130	224025	10.000	ng		0.00
36) 1,4-Difluorobenzene	7.965	114	875989	10.000	ng		0.00
53) Chlorobenzene-d5	10.508	82	485627	10.000	ng		-0.01
80) Bromochloromethane(sim)	6.765	130	246587	10.000	ng	#	0.00
94) 1,4-Difluorobenzene(sim)	7.971	114	1026921	10.000	ng		0.00
104) Chlorobenzene-d5(sim)	10.513	82	540892	10.000	ng		0.00
System Monitoring Compounds							
62) % Bromofluorobenzene	11.358	95	623294	9.522	ppbv		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.20%				
Target Compounds							Qvalue

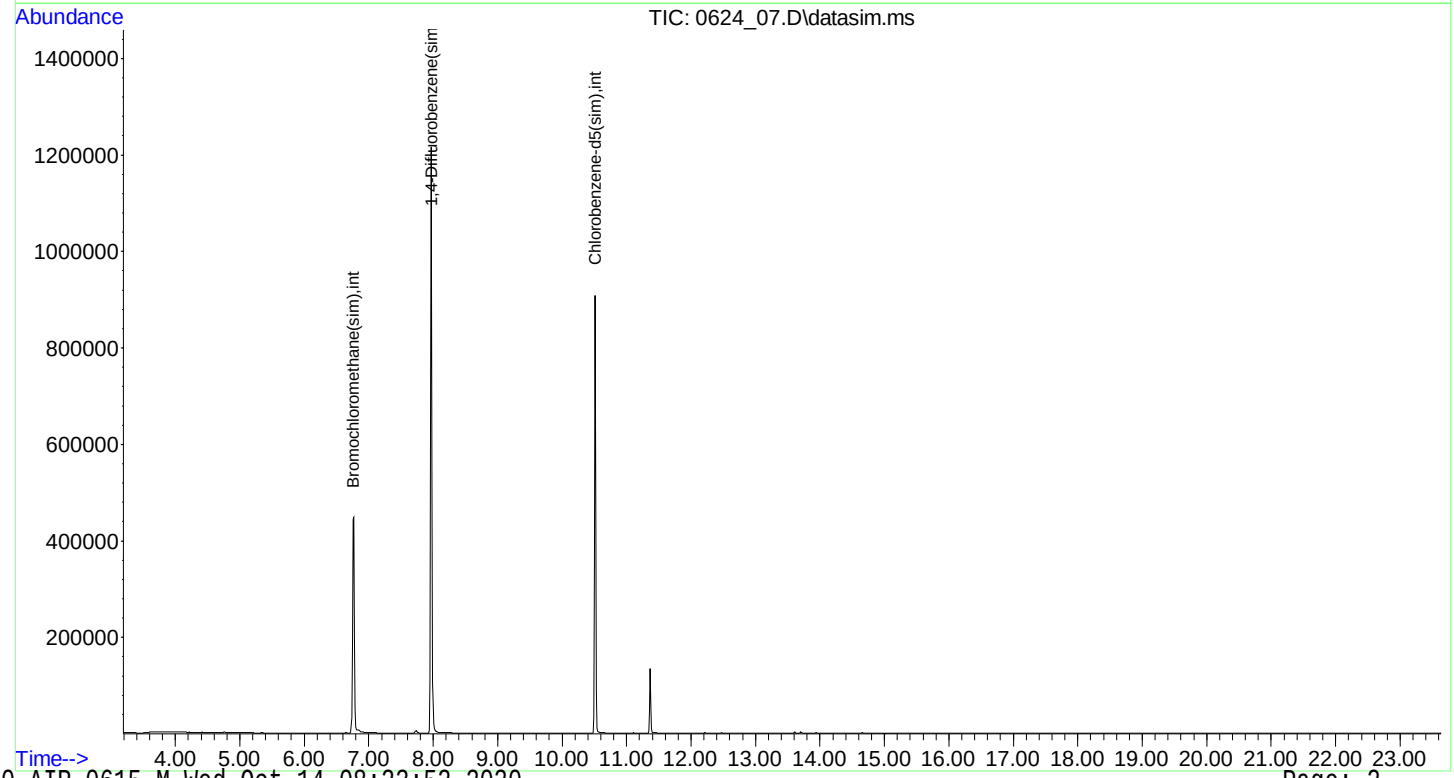
(#)out of range (m)manual integration reviewed by analyst (+)signals summed

Quantitation Report (QT Reviewed)

Data Path : H:\AIR2020\CHEM20\06JUN\24\
Data File : 0624_07.D
Acq On : 24 Jun 2020 3:29 pm
Operator :
Client ID : CANISTER BLK 23348
Lab ID : CANISTER BLK 23348
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Jun 25 09:16:54 2020
Quant Method : H:\AIR2020\CHEM20\METHODS\20_AIR_0615.M
Quant Title : VOA Standards for 5 point calibration
QLast Update : Mon Jun 15 14:41:22 2020
Response via : Initial Calibration





Injection Log

Data Directory: H:\AIR2020\CHEM20\05MAY\04\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0504_25.D	xxxxxxxxxx		N/A
2)	1	0504_01.D	xxxxxxxxxx		05/04/20 22:27
3)	6	0504_02.D	xxxxxxxxxx		05/04/20 23:04
4)	6	0504_03.D	xxxxxxxxxx		05/04/20 23:41
5)	7	0504_04.D	xxxxxxxxxx		05/05/20 0:20
6)	8	0504_05.D	xxxxxxxxxx		05/05/20 0:55
7)	9	0504_06.D	xxxxxxxxxx		05/05/20 1:43
8)	11	0504_07.D	xxxxxxxxxx		05/05/20 2:23
9)	12	0504_08.D	xxxxxxxxxx		05/05/20 3:02
10)	13	0504_09.D	xxxxxxxxxx		05/05/20 3:42
11)	14	0504_10.D	xxxxxxxxxx		05/05/20 4:22
12)	15	0504_11.D	xxxxxxxxxx		05/05/20 5:01
13)	16	0504_12.D	xxxxxxxxxx		05/05/20 5:41
14)	17	0504_13.D	xxxxxxxxxx		05/05/20 6:20
15)	18	0504_14.D	CANISTER BLK 12855	CANISTER BLK 12855	05/05/20 7:00
16)	19	0504_15.D	xxxxxxxxxx		05/05/20 7:40
17)	20	0504_16.D	xxxxxxxxxx		05/05/20 8:19
18)	21	0504_17.D	xxxxxxxxxx		05/05/20 8:58
19)	22	0504_18.D	xxxxxxxxxx		05/05/20 9:38
20)	23	0504_19.D	xxxxxxxxxx		05/05/20 10:13
21)	24	0504_20.D	xxxxxxxxxx		05/05/20 10:51
22)	25	0504_21.D	xxxxxxxxxx		05/05/20 11:28
23)	28	0504_22.D	xxxxxxxxxx		05/05/20 12:07
24)	29	0504_23.D	xxxxxxxxxx		05/05/20 12:42
25)	30	0504_24.D	xxxxxxxxxx		05/05/20 13:17

Injection Log

Data Directory: H:\AIR2020\CHEM20\06JUN\24\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	33	0624_01.D	xxxxxxxxxx		06/24/20 11:28
2)	33	0624_02.D	xxxxxxxxxx		06/24/20 12:04
3)	33	0624_03.D	xxxxxxxxxx		06/24/20 12:43
4)	33	0624_04.D	xxxxxxxxxx		06/24/20 13:17
5)	33	0624_05.D	xxxxxxxxxx		06/24/20 13:52
6)	34	0624_06.D	xxxxxxxxxx		06/24/20 14:50
7)	35	0624_07.D	CANISTER BLK 23348	CANISTER BLK 23348	06/24/20 15:29
8)	36	0624_08.D	xxxxxxxxxx		06/24/20 16:08
9)	37	0624_09.D	xxxxxxxxxx		06/24/20 16:47
10)	38	0624_10.D	xxxxxxxxxx		06/24/20 17:26
11)	39	0624_11.D	xxxxxxxxxx		06/24/20 18:05
12)	40	0624_12.D	xxxxxxxxxx		06/24/20 18:44
13)	41	0624_13.D	xxxxxxxxxx		06/24/20 19:23
14)	42	0624_14.D	xxxxxxxxxx		06/24/20 20:02
15)	43	0624_15.D	xxxxxxxxxx		06/24/20 20:41
16)	44	0624_16.D	xxxxxxxxxx		06/24/20 21:20
17)	45	0624_17.D	xxxxxxxxxx		06/24/20 21:59
18)	46	0624_18.D	xxxxxxxxxx		06/24/20 22:37
19)	46	0624_19.D	xxxxxxxxxx		06/24/20 23:16
20)	47	0624_20.D	xxxxxxxxxx		06/24/20 23:55
21)	48	0624_21.D	xxxxxxxxxx		06/25/20 0:33
22)	49	0624_22.D	xxxxxxxxxx		06/25/20 1:12
23)	50	0624_23.D	xxxxxxxxxx		06/25/20 1:50
24)	51	0624_24.D	xxxxxxxxxx		06/25/20 2:27
25)	52	0624_25.D	xxxxxxxxxx		06/25/20 3:04
26)	53	0624_26.D	xxxxxxxxxx		06/25/20 3:42
27)	54	0624_27.D	xxxxxxxxxx		06/25/20 4:16
28)	55	0624_28.D	xxxxxxxxxx		06/25/20 4:50
29)	56	0624_29.D	xxxxxxxxxx		06/25/20 9:52
30)	57	0624_30.D	xxxxxxxxxx		06/25/20 10:30
31)	58	0624_31.D	xxxxxxxxxx		06/25/20 11:09
32)	59	0624_32.D	xxxxxxxxxx		06/25/20 11:48
33)	60	0624_33.D	xxxxxxxxxx		06/25/20 12:27
34)	61	0624_34.D	xxxxxxxxxx		06/25/20 13:06
35)	62	0624_35.D	xxxxxxxxxx		06/25/20 13:46
36)	63	0624_36.D	xxxxxxxxxx		06/25/20 14:25
37)	64	0624_37.D	xxxxxxxxxx		06/25/20 15:04
38)	65	0624_38.D	xxxxxxxxxx		06/25/20 15:42
39)	66	0624_39.D	xxxxxxxxxx		06/25/20 16:21
40)	67	0624_40.D	xxxxxxxxxx		06/25/20 17:00
41)	68	0624_41.D	xxxxxxxxxx		06/25/20 17:39
42)	69	0624_42.D	xxxxxxxxxx		06/25/20 18:19
43)	70	0624_43.D	xxxxxxxxxx		06/25/20 19:00
44)	71	0624_44.D	xxxxxxxxxx		06/25/20 19:39
45)	72	0624_45.D	xxxxxxxxxx		06/25/20 20:18
46)	73	0624_46.D	xxxxxxxxxx		06/25/20 20:55

Injection Log

Data Directory: H:\AIR2020\CHEM20\07JUL\29\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0727_03.D	xxxxxxxxxx		N/A
2)	0	0729_32.D	xxxxxxxxxx		N/A
3)	9	0727_02.D	xxxxxxxxxx		07/29/20 19:06
4)	9	0729_01.D	xxxxxxxxxx		07/29/20 21:43
5)	10	0729_02.D	xxxxxxxxxx		07/29/20 22:17
6)	10	0729_03.D	xxxxxxxxxx		07/29/20 22:51
7)	3	0729_04.D	xxxxxxxxxx		07/29/20 23:27
8)	4	0729_05.D	xxxxxxxxxx		07/30/20 0:03
9)	5	0729_06.D	xxxxxxxxxx		07/30/20 0:39
10)	6	0729_07.D	xxxxxxxxxx		07/30/20 1:15
11)	7	0729_08.D	xxxxxxxxxx		07/30/20 1:51
12)	8	0729_09.D	xxxxxxxxxx		07/30/20 2:29
13)	9	0729_10.D	xxxxxxxxxx		07/30/20 3:07
14)	10	0729_11.D	xxxxxxxxxx		07/30/20 3:43
15)	11	0729_12.D	xxxxxxxxxx		07/30/20 4:21
16)	12	0729_13.D	xxxxxxxxxx		07/30/20 5:01
17)	13	0729_14.D	xxxxxxxxxx		07/30/20 5:36
18)	14	0729_15.D	xxxxxxxxxx		07/30/20 6:12
19)	16	0729_16.D	xxxxxxxxxx		07/30/20 6:49
20)	17	0729_17.D	xxxxxxxxxx		07/30/20 7:28
21)	18	0729_18.D	xxxxxxxxxx		07/30/20 8:02
22)	19	0729_19.D	xxxxxxxxxx		07/30/20 8:36
23)	20	0729_20.D	xxxxxxxxxx		07/30/20 13:31
24)	21	0729_21.D	xxxxxxxxxx		07/30/20 14:10
25)	22	0729_22.D	xxxxxxxxxx		07/30/20 14:49
26)	23	0729_23.D	xxxxxxxxxx		07/30/20 15:28
27)	24	0729_24.D	xxxxxxxxxx		07/30/20 16:07
28)	25	0729_25.D	xxxxxxxxxx		07/30/20 16:46
29)	26	0729_26.D	xxxxxxxxxx		07/30/20 17:24
30)	27	0729_27.D	CANISTER BLK 13652	CANISTER BLK 13652	07/30/20 18:03
31)	28	0729_28.D	xxxxxxxxxx		07/30/20 18:42
32)	29	0729_29.D	xxxxxxxxxx		07/30/20 19:21
33)	30	0729_30.D	xxxxxxxxxx		07/30/20 19:58
34)	31	0729_31.D	xxxxxxxxxx		07/30/20 20:35

Injection Log

Data Directory: H:\AIR2020\CHEM24\08AUG\21\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	132	0821_01.D	xxxxxxxxxx		08/21/20 8:38
2)	134	0821_02.D	xxxxxxxxxx		08/21/20 9:12
3)	135	0821_03.D	xxxxxxxxxx		08/21/20 9:46
4)	136	0821_04.D	xxxxxxxxxx		08/21/20 10:23
5)	138	0821_05.D	xxxxxxxxxx		08/21/20 10:55
6)	138	0821_06.D	xxxxxxxxxx		08/21/20 11:27
7)	6	0821_07.D	xxxxxxxxxx		08/21/20 12:08
8)	5	0821_08.D	xxxxxxxxxx		08/21/20 12:40
9)	7	0821_09.D	BFB TUNE	0/0	08/21/20 13:12
10)	8	0821_10.D	ICAL 0.02	0.02	08/21/20 13:44
11)	9	0821_11.D	ICAL 0.035	0.035	08/21/20 14:16
12)	10	0821_12.D	ICAL 0.05	0.05	08/21/20 14:49
13)	11	0821_13.D	ICAL 0.1	0.10	08/21/20 15:22
14)	12	0821_14.D	ICAL 0.5	0.5	08/21/20 15:59
15)	13	0821_15.D	ICAL 2.5	2.5	08/21/20 16:36
16)	14	0821_16.D	ICAL 5	5.0	08/21/20 17:09
17)	15	0821_17.D	ICAL 25	25	08/21/20 18:42
18)	16	0821_18.D	ICAL 40	40	08/21/20 19:22
19)	17	0821_19.D	xxxxxxxxxx		08/21/20 19:54
20)	18	0821_20.D	ICAL 1	1.0ppb cc	08/21/20 20:28
21)	20	0821_21.D	ICAL 10	10ppb cc	08/21/20 21:53
22)	21	0821_22.D	xxxxxxxxxx		08/21/20 22:30
23)	22	0821_23.D	xxxxxxxxxx		08/21/20 23:01
24)	23	0821_24.D	xxxxxxxxxx		08/21/20 23:33
25)	24	0821_25.D	xxxxxxxxxx		08/22/20 0:55
26)	25	0821_26.D	xxxxxxxxxx		08/22/20 1:32
27)	26	0821_27.D	xxxxxxxxxx		08/22/20 2:09
28)	27	0821_28.D	xxxxxxxxxx		08/22/20 2:46
29)	28	0821_29.D	xxxxxxxxxx		08/22/20 3:18
30)	29	0821_30.D	xxxxxxxxxx		08/22/20 3:51
31)	30	0821_31.D	xxxxxxxxxx		08/22/20 4:24
32)	31	0821_32.D	xxxxxxxxxx		08/22/20 4:55
33)	32	0821_33.D	xxxxxxxxxx		08/22/20 5:29
34)	33	0821_34.D	xxxxxxxxxx		08/22/20 6:02

Injection Log

Data Directory: H:\AIR2020\CHEM24\08AUG\24\

Line	Vl	FileName	SampleName	MiscInfo	Injection Time
1)	0	0827_06.D	xxxxxxxxxx		N/A
2)	132	0824_01.D	xxxxxxxxxx		08/24/20 7:30
3)	134	0824_02.D	xxxxxxxxxx		08/24/20 8:04
4)	135	0824_03.D	xxxxxxxxxx		08/24/20 8:37
5)	136	0824_04.D	xxxxxxxxxx		08/24/20 9:14
6)	138	0824_05.D	xxxxxxxxxx		08/24/20 9:51
7)	138	0824_06.D	xxxxxxxxxx		08/24/20 10:23
8)	139	0824_07.D	xxxxxxxxxx		08/24/20 10:54
9)	140	0824_08.D	xxxxxxxxxx		08/24/20 11:27
10)	141	0824_09.D	xxxxxxxxxx		08/24/20 12:04
11)	142	0824_10.D	xxxxxxxxxx		08/24/20 12:40
12)	143	0824_11.D	xxxxxxxxxx		08/24/20 13:17
13)	144	0824_12.D	xxxxxxxxxx		08/24/20 13:54
14)	145	0824_13.D	xxxxxxxxxx		08/24/20 14:33
15)	146	0824_14.D	xxxxxxxxxx		08/24/20 15:10
16)	147	0824_15.D	xxxxxxxxxx		08/24/20 15:47
17)	148	0824_16.D	xxxxxxxxxx		08/24/20 16:24
18)	149	0824_17.D	xxxxxxxxxx		08/24/20 17:01
19)	150	0824_18.D	xxxxxxxxxx		08/24/20 17:38
20)	151	0824_19.D	xxxxxxxxxx		08/24/20 18:14
21)	152	0824_20.D	xxxxxxxxxx		08/24/20 18:47
22)	153	0824_21.D	xxxxxxxxxx		08/24/20 19:24
23)	154	0824_22.D	xxxxxxxxxx		08/24/20 20:01
24)	155	0824_23.D	xxxxxxxxxx		08/24/20 20:38
25)	156	0824_24.D	xxxxxxxxxx		08/24/20 21:15
26)	157	0824_25.D	xxxxxxxxxx		08/24/20 21:52
27)	158	0824_26.D	xxxxxxxxxx		08/24/20 22:33
28)	159	0824_27.D	xxxxxxxxxx		08/24/20 23:14
29)	160	0824_28.D	xxxxxxxxxx		08/25/20 0:37
30)	161	0824_29.D	xxxxxxxxxx		08/25/20 1:09
31)	162	0824_30.D	xxxxxxxxxx		08/25/20 1:42
32)	163	0824_31.D	xxxxxxxxxx		08/25/20 2:19
33)	165	0824_32.D	xxxxxxxxxx		08/25/20 2:56
34)	166	0824_33.D	xxxxxxxxxx		08/25/20 3:33
35)	167	0824_34.D	xxxxxxxxxx		08/25/20 4:10
36)	168	0824_35.D	xxxxxxxxxx		08/25/20 4:47
37)	169	0824_36.D	xxxxxxxxxx		08/25/20 5:19
38)	170	0825_01.D	xxxxxxxxxx		08/25/20 5:52
39)	171	0825_02.D	xxxxxxxxxx		08/25/20 6:26
40)	172	0825_03.D	xxxxxxxxxx		08/25/20 7:03
41)	173	0825_04.D	xxxxxxxxxx		08/25/20 7:40
42)	174	0825_05.D	xxxxxxxxxx		08/25/20 8:11
43)	175	0825_06.D	xxxxxxxxxx		08/25/20 8:43
44)	176	0825_07.D	xxxxxxxxxx		08/25/20 9:20
45)	177	0825_08.D	xxxxxxxxxx		08/25/20 9:56
46)	178	0825_09.D	xxxxxxxxxx		08/25/20 10:33
47)	179	0825_10.D	xxxxxxxxxx		08/25/20 11:10
48)	180	0825_11.D	xxxxxxxxxx		08/25/20 11:47
49)	181	0825_12.D	xxxxxxxxxx		08/25/20 12:24
50)	182	0825_13.D	xxxxxxxxxx		08/25/20 13:01
51)	183	0825_14.D	xxxxxxxxxx		08/25/20 13:38
52)	184	0825_15.D	xxxxxxxxxx		08/25/20 14:15
53)	185	0825_16.D	xxxxxxxxxx		08/25/20 15:37
54)	186	0825_17.D	xxxxxxxxxx		08/25/20 16:15
55)	187	0825_18.D	xxxxxxxxxx		08/25/20 16:53
56)	188	0825_19.D	xxxxxxxxxx		08/25/20 17:31
57)	189	0825_20.D	xxxxxxxxxx		08/25/20 18:10
58)	190	0825_21.D	xxxxxxxxxx		08/25/20 18:48
59)	191	0825_22.D	xxxxxxxxxx		08/25/20 19:27
60)	192	0825_23.D	xxxxxxxxxx		08/25/20 20:31
61)	193	0825_24.D	xxxxxxxxxx		08/25/20 21:14
62)	194	0825_25.D	xxxxxxxxxx		08/25/20 21:59
63)	195	0825_26.D	xxxxxxxxxx		08/25/20 22:44
64)	196	0825_27.D	xxxxxxxxxx		08/25/20 23:29
65)	197	0825_28.D	xxxxxxxxxx		08/26/20 0:18
66)	198	0825_29.D	xxxxxxxxxx		08/26/20 1:04
67)	199	0825_30.D	xxxxxxxxxx		08/26/20 1:50
68)	200	0825_31.D	xxxxxxxxxx		08/26/20 2:30

69)	201	0825_32.D	xxxxxxxxxx		08/26/20	3:11
70)	203	0825_33.D	xxxxxxxxxx		08/26/20	3:43
71)	204	0825_34.D	xxxxxxxxxx		08/26/20	4:16
72)	205	0825_35.D	xxxxxxxxxx		08/26/20	4:48
73)	206	0826_01.D	BFB TUNE - CCAL 1	1.0ppb cc - 1.0ppb	08/26/20	5:21
74)	206	0826_02.D	xxxxxxxxxx		08/26/20	5:55
75)	207	0826_03.D	CG61561 LCS	CG61561 LCS	08/26/20	6:32
76)	208	0826_04.D	CG61561 LCSD	CG61561 LCSD	08/26/20	9:35
77)	209	0826_05.D	xxxxxxxxxx		08/26/20	10:06
78)	210	0826_06.D	CG61561 BLANK	CG61561 BLANK	08/26/20	10:38
79)	211	0826_07.D	CG61561 QC	CG61561 QC	08/26/20	11:19
80)	212	0826_08.D	61561 360cc dup	CG61561 DUP	08/26/20	12:00
81)	213	0826_09.D	xxxxxxxxxx		08/26/20	12:41
82)	214	0826_10.D	IA-9 (COLUMN P10)	CG61563	08/26/20	13:22
83)	215	0826_11.D	IA-07 (COLUMN D24)	CG61564	08/26/20	14:03
84)	216	0826_12.D	AA-01 (NE CORNER 320A)	CG61565	08/26/20	14:43
85)	217	0826_13.D	xxxxxxxxxx		08/26/20	15:20
86)	218	0826_14.D	xxxxxxxxxx		08/26/20	15:57
87)	219	0826_15.D	xxxxxxxxxx		08/26/20	16:30
88)	220	0826_16.D	xxxxxxxxxx		08/26/20	17:07
89)	221	0826_17.D	xxxxxxxxxx		08/26/20	17:44
90)	222	0826_18.D	xxxxxxxxxx		08/26/20	18:20
91)	223	0826_19.D	xxxxxxxxxx		08/26/20	18:57
92)	224	0826_20.D	xxxxxxxxxx		08/26/20	19:34
93)	225	0826_21.D	xxxxxxxxxx		08/26/20	20:11
94)	226	0826_22.D	xxxxxxxxxx		08/26/20	20:48
95)	227	0826_23.D	xxxxxxxxxx		08/26/20	21:25
96)	228	0826_24.D	xxxxxxxxxx		08/26/20	22:02
97)	229	0826_25.D	xxxxxxxxxx		08/26/20	22:39
98)	230	0826_26.D	xxxxxxxxxx		08/26/20	23:16
99)	231	0826_27.D	xxxxxxxxxx		08/26/20	23:49
100)	232	0826_28.D	xxxxxxxxxx		08/27/20	0:21
101)	233	0826_29.D	xxxxxxxxxx		08/27/20	0:54
102)	234	0826_30.D	xxxxxxxxxx		08/27/20	1:27
103)	235	0826_31.D	xxxxxxxxxx		08/27/20	2:01
104)	236	0826_32.D	xxxxxxxxxx		08/27/20	2:37
105)	237	0826_33.D	xxxxxxxxxx		08/27/20	3:14
106)	238	0826_34.D	xxxxxxxxxx		08/27/20	3:46
107)	239	0827_01.D	xxxxxxxxxx		08/27/20	4:19
108)	240	0827_02.D	xxxxxxxxxx		08/27/20	4:53
109)	241	0827_03.D	xxxxxxxxxx		08/27/20	5:30
110)	242	0827_04.D	xxxxxxxxxx		08/27/20	6:01
111)	243	0827_05.D	xxxxxxxxxx		08/27/20	6:32

APPENDIX D

DATA USABILITY SUMMARY REPORT (MARCH 2021)

Building 210 (320A) & 220 (310) Warehouse Space Indoor Air Quality Sampling Data Usability Summary Report

at

iPark 84
Former IBM East Fishkill Facility

March 2021

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

Data Usability Summary Report

Indoor Air Quality Investigation
iPark 84, Former IBM East Fishkill Facility
Building 210 (formerly Building 320A)
Building 220 (formerly Building B310)
For OGS Warehouse

This Data Usability Summary Report (DUSR) has been prepared to validate the results of air sampling conducted in Building 210 (formerly Building 320A) and Building 220 (formerly Building B310) at the above-referenced facility. This sampling was conducted on August 24, 2020 in support of a pre-occupancy evaluation. Walden performed the sampling in accordance with indoor air quality testing procedures detailed in the *RCRA Facility Investigation (RFI) VOC Source Assessment Work Plan* (RFI Work Plan) dated June 15, 2009, prepared by Sanborn, Head Engineering, PC and other State-approved sampling plans prepared by Walden for recent IAQ testing in other tenant spaces at iPark.

A summary of the Buildings 210 (320A) and 220 (210) sampling results was submitted to NYSDEC and NYSDOH in a report dated August 26, 2020. NYSDEC approved occupancy of the OGS Warehouse Buildings 210 (320A) and 220 (210) Space in a letter dated September 25, 2020.

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 Mr. Lawrence Zeman (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, NH, a NYSDOH Environmental Laboratory Approval Program (ELAP) certified laboratory (NY Lab Registration #11301), and analyzed for volatile organic compounds (VOCs) via U.S. Environmental Protection Agency (USEPA) Modified Method TO-15 with the analytical detection limits set forth in State-approved sampling plans prepared by Walden for recent IAQ testing in other tenant spaces at iPark.

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 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 used in Buildings 210 (320A) and 220 (310) 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. Duplicate samples were collected at a minimum of one (1) sample per ten (10) samples collected. 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, and all of the QA/QC data met the protocol-required criteria.

   In summary, all QA/QC acceptance criteria was meet and the reliability of the laboratory results are acceptable.

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 used for the 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

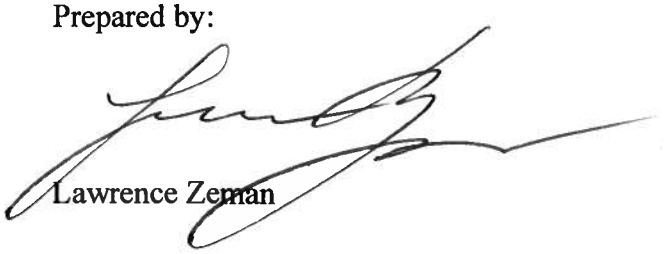
Cis-1,2-Dichloroethene	0.8
Dichlorodifluoromethane	1.0
Ethylbenzene	0.86
m,p-Xylene	0.86
Methylene Chloride	1.4
o-Xylene	0.86
Tetrachloroethene	1.4
Toluene	0.77
Trichloroethene	0.22
Trichlorofluoromethane	1.1
Trichlorotrifluoroethane	1.5
Vinyl Chloride	0.06

All reportable VOCs meet the minimum required reporting limits for all samples collected at Buildings 210 (320A) and 220 (310) on August 24, 2020.

Summary

In summary, the analytical data package review conducted when preparing this DUSR found no data deficiencies, analytical protocol deviations, or quality control problems that impact the quality of the data. No significant QC exceedances were identified and it was determined that none of the data should be rejected.

Prepared by:



Lawrence Zeman

Z:\iPark0118\+iPARK DUSRs\B310 320A Warehouse\DUSR\Data Usability Summary Report for iPark0118.28 B310 and B320A.docx

Attachment A

Resume of Environmental Professional

Lawrence F. Zeman

Project Scientist II

Lawrence has 20 years of environmental and lab consulting experience, taking on difficult laboratory issues and QA/QC. He is very well versed in areas as diverse as regulatory compliance, test protocol development and implementation, management of instrument repair and maintenance, field inspections and on-site audits, correlation studies of various analyses and engineering/technical reporting.

EDUCATION

B.A. Biology, Minor in Chemistry Queens College

LICENSES/ CERTIFICATIONS

New York State ELAP Laboratory Director

New York State ELAP Laboratory Microbiology Assistant Director

New York Department of Health Laboratory Technologist

OSHA HAZWOPER 40-hour & OSHA 10-hour Certified

SELECTED RELEVANT EXPERIENCE

Various Clients, New York

- Performed sample collection of various sample types at industrial facilities and construction & remediation project sites;
  Conducted soil sample collection, field activities oversight and continuous air monitoring for Community Air Monitoring Program (CAMP) in accordance with DER-10 as follows:
  - Elmhurst Tank Park & Playground, Queens, NY (2009 – 2011);
  - Calvert Vaux Park and Athletic Fields, Brooklyn, NY (2009 – 2011), as an Independent Environmental Monitor (IEM) on-site technician;
  - Harlem Rive Greenway, Bronx, NY (2011 – 2012);
  - Beach Channel H.S. Athletic Fields (2016);
  - P.S. 63M William McKinley School, Manhattan, NY (2016);
  - P.S. 131 Abigail Adams Public School, Queens, NY (2017);
  - Forest Hills High School, Queens, NY (2017)
- Developed and implemented new testing protocols and test procedures;
- Conducted instrumentation repair and scheduled maintenance;
- Conducted correlation studies of various analytic procedures;
- Verified laboratory Quality Assurance and Quality Control procedures and data;
- Responsible for regulatory compliance and quality control;
- Prepared and submitted facilities' annual Zoning Performance Standards Compliance Reports, including noise, vibration, odor and opacity testing for DSNY permit renewal;
- Provided environmental services to ensure compliance for facility's NYS DEC Title V Air Facility Permit. Completed monthly, semi-annual and annual compliance reports;
- Conducted field Inspections and on-site audits;
- Preformed field measurements and recording of Noise and Vibration;
- Prepared Engineering & Technical Reports;
- Prepared New York City Community Right-To-Know Law and SARA reports for Industrial facilities