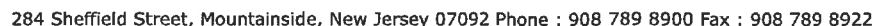




SHIPPING DOCUMENTS



Q1419

Client Contact Information						Bottle Order ID : B2502026							Courier : F GALDUN 1 of 2 COCs										
Customer ID : GFEL01 Project ID : 38-11-1-1 St., Long Island City, NY						Sampler Name(s) : FRANK GALDUN							Analysis Matrix										
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :						Project Manager : Frank galdun							AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified Data Package Type : RESULTS ONLY EDD Type : PDE										
						Phone Number : 646-542-3465																	
						Fax Number : 973-334-1692																	
						Site Details: 48-07 DELL BLVD. BAYSIDE, NY																	
						Analysis Turnaround Time 5 DAY																	
						Standard : 10 business days OR																	
						Rush (Specify): 5 Days																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15					Indoor/Ambient Air	Soil Gas		
SU1	2/24/25	8:28	10:28	30	6	60	60	-30	-4.7	10550	10267	6 L	50	VL041796.D	1								
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]													
		Ambient	Maximum	Minimum																			
Start																							
Stop																							
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYLCHLORIDE Please follow the instructions on the back of this COC.													
		Ambient	Maximum	Minimum																			
Start																							
Stop																							
Special Instructions/QC Requirements & Comments :																							
Suspected Contamination: High Medium Low PID Readings: 0.1																							
Sampling site (State):																							
Quick Connector required : NO																							
Canisters Shipped by:						Date/Time: 2/24/25						Canisters Received by:						Date/Time:					
Samples Relinquished by:						Date/Time: 2/24/25						Received by:						Date/Time: 2-24-25 1220					
Relinquished by:						Date/Time:						Received by:						Date/Time:					

Client Contact Information				Bottle Order ID : B2502026				Courier : FGALDUN				2 of 2 COCs					
Client ID : GFEL01 Project ID : 35-11-31st St, Long Island City, NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 48-07 BELL BVD. BAYSIDE, NY													
Analysis Turnaround Time 5 DAY				Standard : 10 minutes OR				Data Package Type : RESULTS ONLY									
Rush (Specify): 5 Days				EDD Type : PDF													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
FA1	2/24/25	8:29	10:29	30	6	60	60	-30	-3.9	10528	10492	6 L	50	VL041796.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYLCHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : No																	
Canisters Shipped by: Sam				Date/Time: 2/24/25				Canisters Received by: CR				Date/Time: 2-24-25 12:20					
Samples Relinquished by: FRANK				Date/Time: 2/24/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~QA/QC~~:

Title: Sample Custodian

Field Sample Seal No.: Q1419

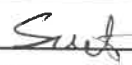
Date Broken 2/24/2025

Military Time Seal Broken: 12:20:00

Case No.: 48-07 Bell Blvd, Bayside N

Analytical Parameter/Fraction/OCMS Group3

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1419-01	SV1		
Q1419-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2-24-25	14:50	Signature 	Signature 	
		Printed Name <u>Cassandra Peña</u>	Printed Name <u>Samirichthy</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value. This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

LAB CHRONICLE

OrderID:	Q1419	OrderDate:	2/24/2025 2:02:00 PM
Client:	GFE LLC	Project:	48-07 Bell Blvd, Bayside NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1419-01	SV1	Air	VOCMS Group3	TO-15	02/24/25		02/26/25	02/24/25
Q1419-01DL	SV1DL	Air	VOCMS Group3	TO-15	02/24/25		02/26/25	02/24/25
Q1419-02	IA1	Air	VOCMS Group3	TO-15	02/24/25		02/26/25	02/24/25

Hit Summary Sheet
SW-846

SDG No.: Q1419

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1419-01	SV1	Air	Trichloroethene	6.99		0.38	0.64	ug/m3
Q1419-01	SV1	Air	Tetrachloroethene	2980	E	0.41	0.81	ug/m3
			Total Voc :	2990				
			Total Concentration:	2990				
Client ID:	SV1DL							
Q1419-01DL	SV1DL	Air	Tetrachloroethene	3250	D	4.07	8.14	ug/m3
			Total Voc :	3250				
			Total Concentration:	3250				
Client ID:	IA1							
Q1419-02	IA1	Air	Vinyl Chloride	0.10		0.030	0.080	ug/m3
Q1419-02	IA1	Air	Tetrachloroethene	9.49		0.14	0.20	ug/m3
			Total Voc :	9.59				
			Total Concentration:	9.59				



QC SUMMARY

Surrogate Summary

SDG No.: Q1419

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1419-01	SV1	1-Bromo-4-Fluorobenzene	10	10.6	106	65	135
Q1419-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1419-02	IA1	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
Q1430-05DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
VL0226ABL01	VL0226ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
VL0226ABS01	VL0226ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1419
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL042054.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0226ABS01	Vinyl Chloride	10	9.90	ppbv	99			70	130	
	1,1-Dichloroethene	10	9.30	ppbv	93			70	130	
	cis-1,2-Dichloroethene	10	9.30	ppbv	93			70	130	
	1,1,1-Trichloroethane	10	9.20	ppbv	92			70	130	
	Trichloroethene	10	9.10	ppbv	91			70	130	
	Tetrachloroethene	10	9.40	ppbv	94			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1430-05DUP	Q1430-05
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042057.D	VL042056.D
Anal Date & Time :	02/26/2025 12:48	02/26/2025 12:14

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.03	0.04	28.6 *
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1419

SAS No.: Q1419 SDG NO.: Q1419

Lab File ID: VL042057.D

Lab Sample ID: Q1430-05DUP

Date Analyzed: 02/26/2025

Time Analyzed: 12:48

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q1430-05DUP	VL042057.D	02/26/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0226ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1419

SAS No.: Q1419 SDG NO.: Q1419

Lab File ID: VL042051.D

Lab Sample ID: VL0226ABL01

Date Analyzed: 02/26/2025

Time Analyzed: 09:20

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0226ABS01	VL0226ABS01	VL042054.D	02/26/2025
IA1	Q1419-02	VL042055.D	02/26/2025
SV1	Q1419-01	VL042060.D	02/26/2025
SV1DL	Q1419-01DL	VL042062.D	02/26/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1419 SAS No.: Q1419 SDG NO.: Q1419
Lab File ID: VL042040.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:56
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.9 (7.8) 1
176	93.0 - 101.0% of mass 174	60.9 (96.1) 1
177	5.0 - 9.0% of mass 176	3.4 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC010	VSTDICC010	VL042041.D	02/25/2025	08:56
VSTDICC002	VSTDICC002	VL042042.D	02/25/2025	09:29
VSTDICC001	VSTDICC001	VL042043.D	02/25/2025	10:00
VSTDICC0.5	VSTDICC0.5	VL042044.D	02/25/2025	10:31
VSTDICC0.1	VSTDICC0.1	VL042045.D	02/25/2025	11:03
VSTDICC0.03	VSTDICC0.03	VL042046.D	02/25/2025	11:34
VSTDICC015	VSTDICC015	VL042047.D	02/25/2025	12:07

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1419 SAS No.: Q1419 SDG NO.: Q1419
Lab File ID: VL042049.D BFB Injection Date: 02/26/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:46
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	57.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	63
175	4.0 - 9.0% of mass 174	4.3 (6.8) 1
176	93.0 - 101.0% of mass 174	62.1 (98.5) 1
177	5.0 - 9.0% of mass 176	4 (6.4) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042050.D	02/26/2025	08:38
VL0226ABL01	VL0226ABL01	VL042051.D	02/26/2025	09:20
VL0226ABS01	VL0226ABS01	VL042054.D	02/26/2025	11:07
IA1	Q1419-02	VL042055.D	02/26/2025	11:40
IA1DUP	Q1430-05DUP	VL042057.D	02/26/2025	12:48
SV1	Q1419-01	VL042060.D	02/26/2025	14:24
SV1DL	Q1419-01DL	VL042062.D	02/26/2025	15:27

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1419 SAS No.: Q1419 SDG NO.: Q1419
 Lab File ID: VL042050.D Date Analyzed: 02/26/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:38
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	157492	2.80	387144	3.98	336136	8.90
UPPER LIMIT	220489	3.13	542002	4.31	470590	9.23
LOWER LIMIT	94495.2	2.47	232286	3.65	201682	8.57
EPA SAMPLE NO.						
SV1	153956	2.79	353365	3.97	304148	8.89
SV1DL	153569	2.79	355801	3.97	298592	8.89
IA1	157204	2.80	381648	3.98	315276	8.90
IA1DUP	157475	2.79	376491	3.97	312935	8.89
VL0226ABL01	157395	2.80	386755	3.98	331916	8.90
VL0226ABS01	153181	2.80	369057	3.97	318885	8.90

IS1 = Bromochloromethane
 IS2 = 1,4-Difluorobenzene
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% 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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1419 SAS No.: Q1419 SDG NO.: Q1419
 Lab File ID: VL042050.D Date Analyzed: 02/26/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:38
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
SV1DL	0	0.00				
IA1	0	0.00				
IA1DUP	0	0.00				
VL0226ABL01	0	0.00				
VL0226ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area

AREA LOWER LIMIT = -40% 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.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	02/24/25
Project:	48-07 Bell Blvd, Bayside NY	Date Received:	02/24/25
Client Sample ID:	SV1	SDG No.:	Q1419
Lab Sample ID:	Q1419-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042060.D	4		02/26/25 14:24	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	1.30	6.99		0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	440	2980	E	0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	154000			2.794		
540-36-3	1,4-Difluorobenzene	353000			3.969		
3114-55-4	Chlorobenzene-d5	304000			8.892		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042060.D
 Acq On : 26 Feb 2025 14:24
 Operator : SY/MD
 Sample : Q1419-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:30:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	153956	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	353365	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	304148	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.384	95	247293	10.568	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	3278	0.205	ppbv	95
3) Chlorodifluoromethane	1.480	51	3430	0.153	ppbv #	84
9) Propene	1.489	41	3793	0.416	ppbv	88
10) Heptane	4.988	43	5337m	0.188	ppbv	
13) Ethanol	1.726	45	2738m	4.732	ppbv	
15) Acetone	1.839	43	21957	1.615	ppbv #	83
19) Isopropyl Alcohol	1.894	45	2800m	0.359	ppbv	
20) Methylene Chloride	2.066	84	5332	1.037	ppbv	85
26) Hexane	2.836	57	23263	1.057	ppbv #	31
29) Chloroform	2.852	83	17593	0.594	ppbv	94
34) 2-Butanone	2.567	43	39365	1.430	ppbv	97
38) Trichloroethene	4.561	130	4971m	0.329	ppbv	
51) 2-Hexanone	7.458	43	11752m	0.480	ppbv	
52) Tetrachloroethene	8.244	164	1400742	110.610	ppbv	95
53) Toluene	6.950	91	21458	0.519	ppbv	99
59) m/p-Xylene	9.539	91	6951m	0.156	ppbv	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

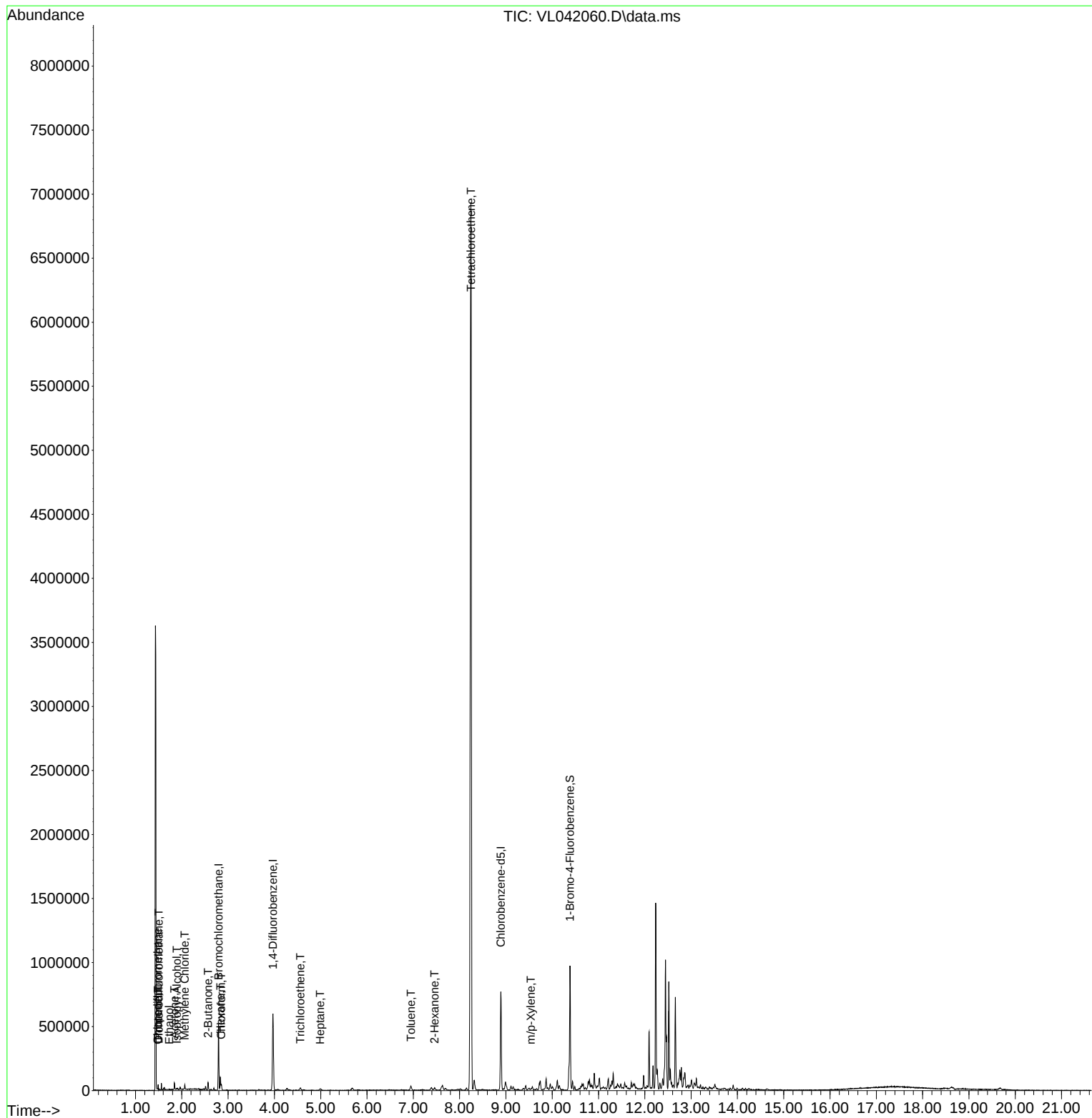
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042060.D
Acq On : 26 Feb 2025 14:24
Operator : SY/MD
Sample : Q1419-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

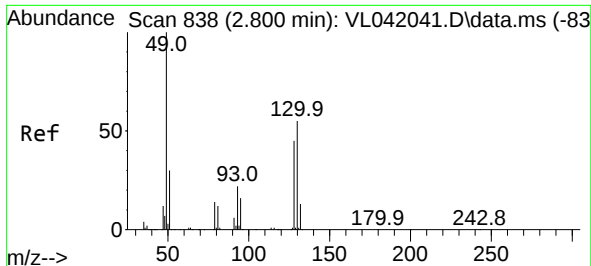
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Feb 27 00:30:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

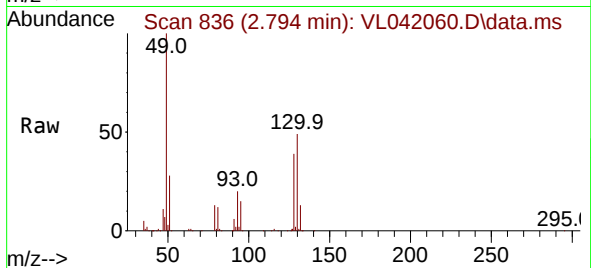
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 836
Delta R.T. -0.006 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

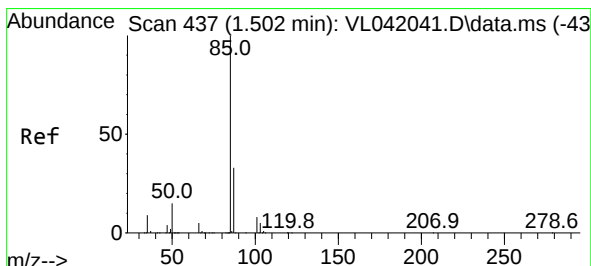
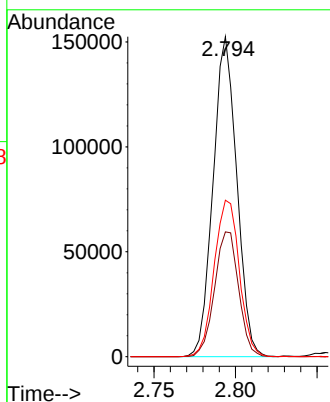
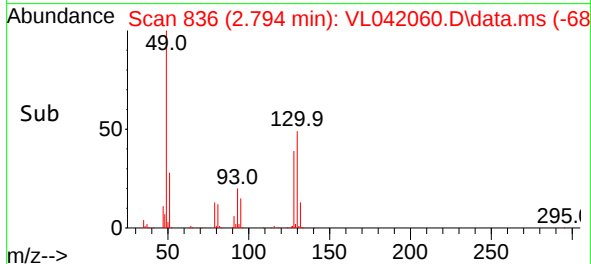
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 153950
Ion Ratio Lower Upper
49 100
128 39.6 21.6 64.8
130 52.0 27.8 83.4

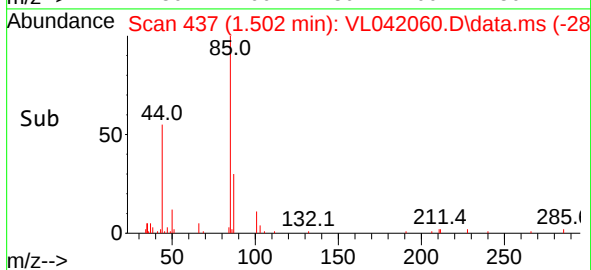
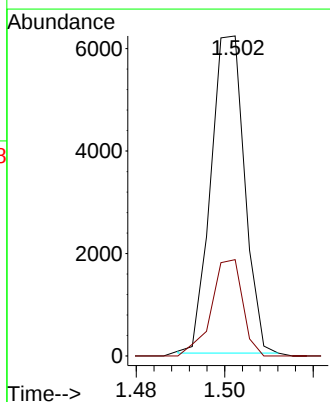
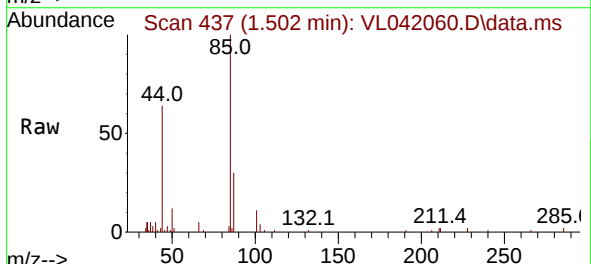
Manual Integrations
APPROVED

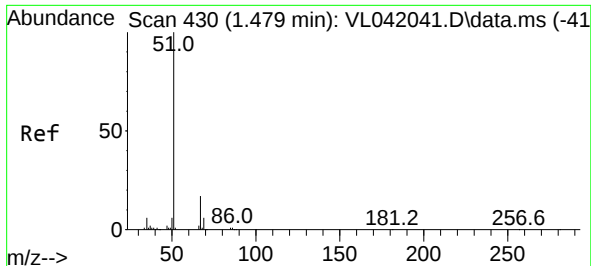
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#2
Dichlorodifluoromethane
Concen: 0.205 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 85 Resp: 3278
Ion Ratio Lower Upper
85 100
87 30.4 26.4 39.6





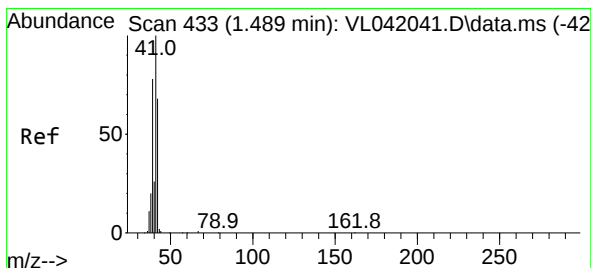
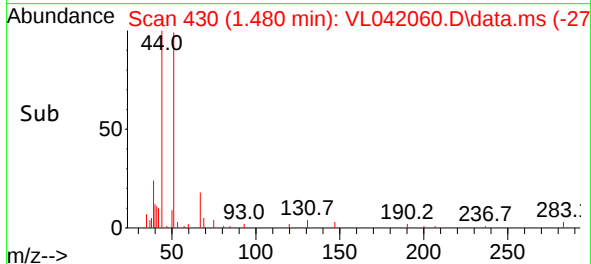
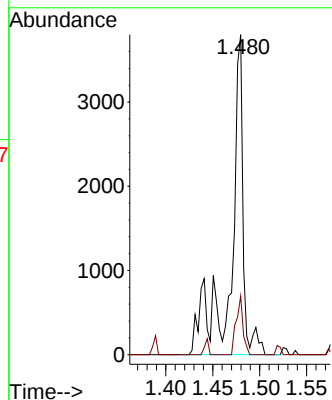
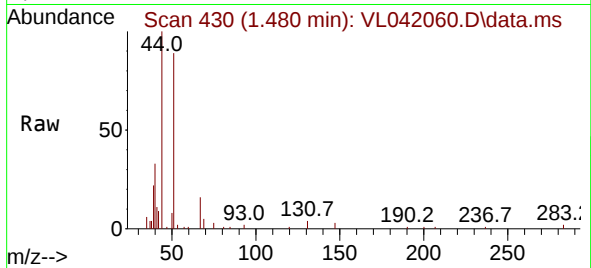
#3
Chlorodifluoromethane
Concen: 0.153 ppbv
RT: 1.480 min Scan# 430
Delta R.T. 0.000 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 51 Resp: 3430
Ion Ratio Lower Upper
51 100
67 10.2 13.7 20.5

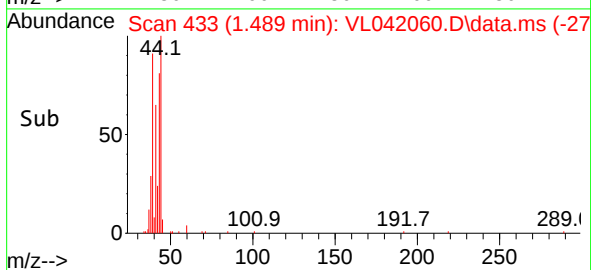
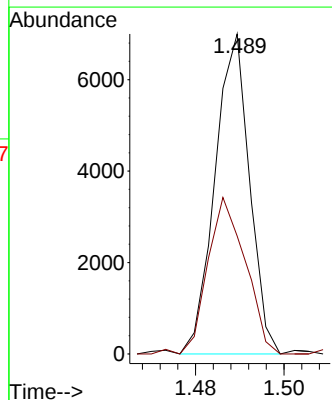
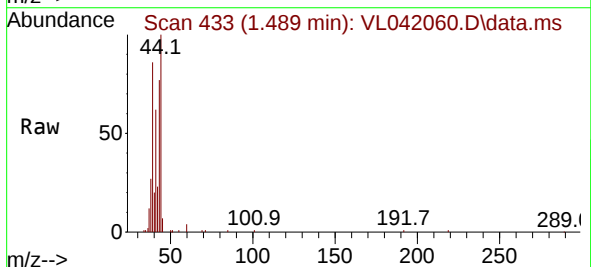
Manual Integrations
APPROVED

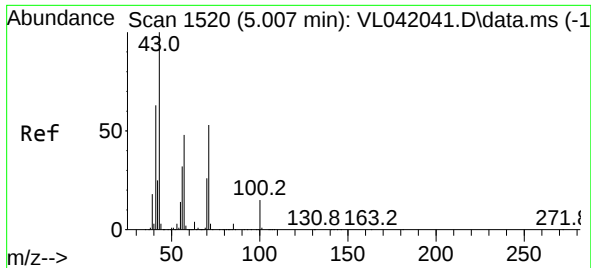
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#9
Propene
Concen: 0.416 ppbv
RT: 1.489 min Scan# 433
Delta R.T. 0.000 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 41 Resp: 3793
Ion Ratio Lower Upper
41 100
42 60.1 55.8 83.6





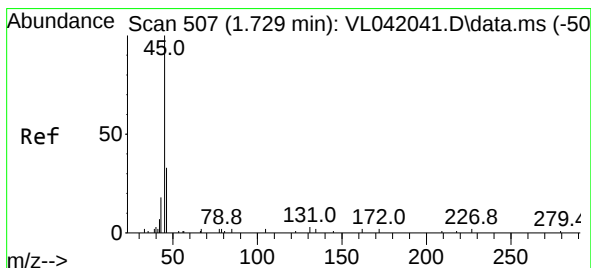
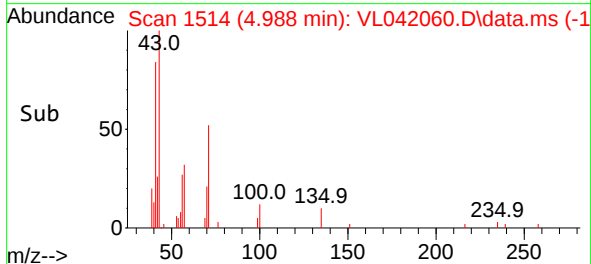
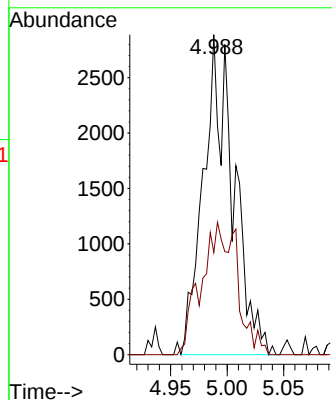
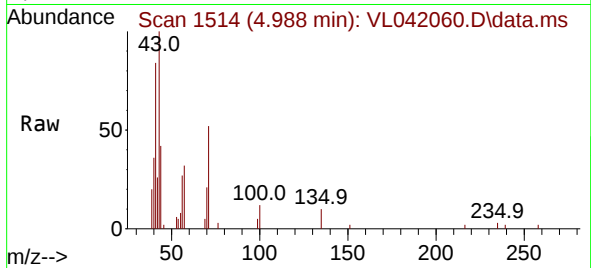
#10
Heptane
Concen: 0.188 ppbv m
RT: 4.988 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 533
Ion Ratio Lower Upper
43 100
57 0.0 39.4 59.0

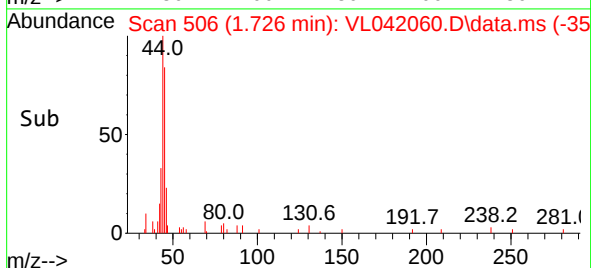
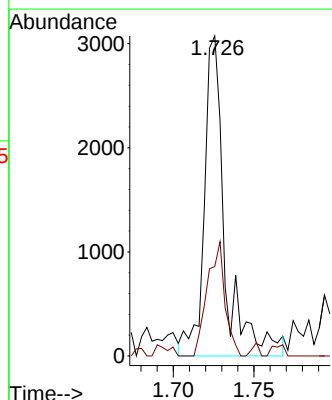
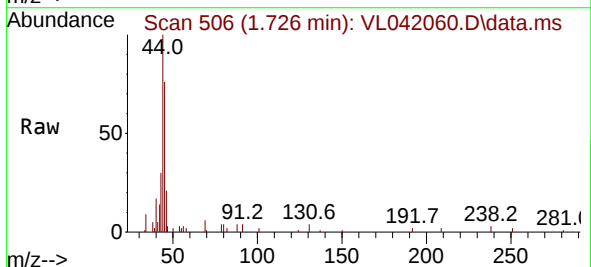
Manual Integrations
APPROVED

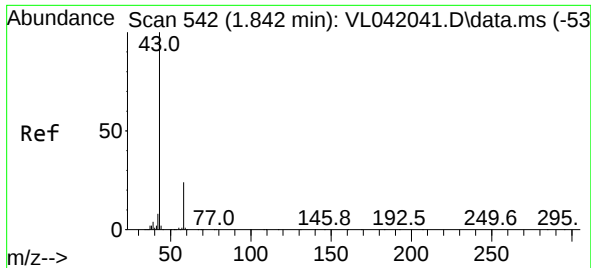
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#13
Ethanol
Concen: 4.732 ppbv m
RT: 1.726 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 45 Resp: 2738
Ion Ratio Lower Upper
45 100
46 3228.0 17.1 68.3#





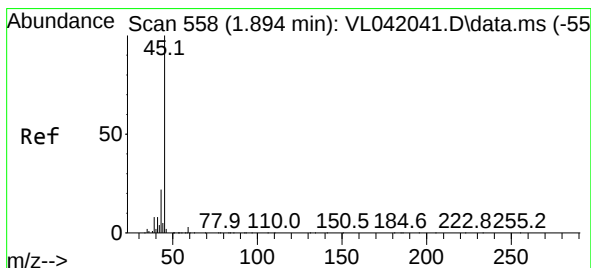
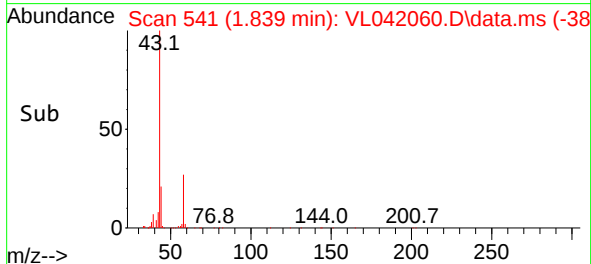
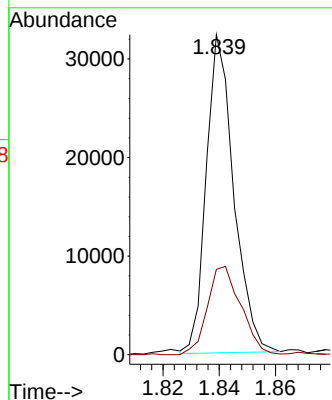
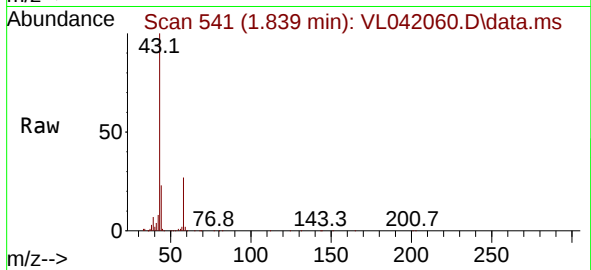
#15
Acetone
Concen: 1.615 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 2195
Ion Ratio Lower Upper
43 100
58 34.3 20.7 31.1

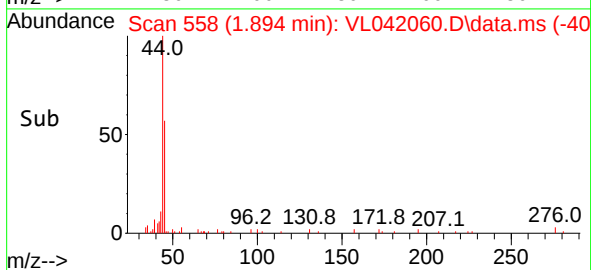
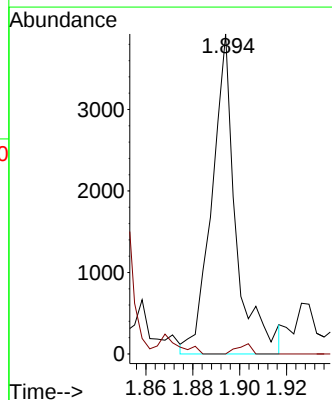
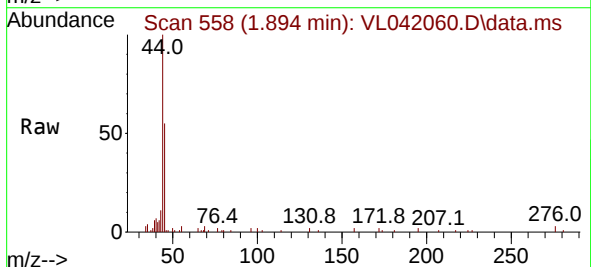
Manual Integrations
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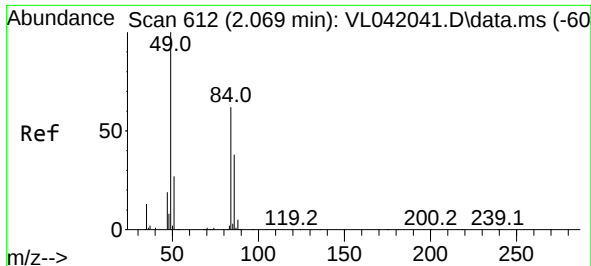
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#19
Isopropyl Alcohol
Concen: 0.359 ppbv m
RT: 1.894 min Scan# 558
Delta R.T. 0.000 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 45 Resp: 2800
Ion Ratio Lower Upper
45 100
58 27.6 35.3 52.9





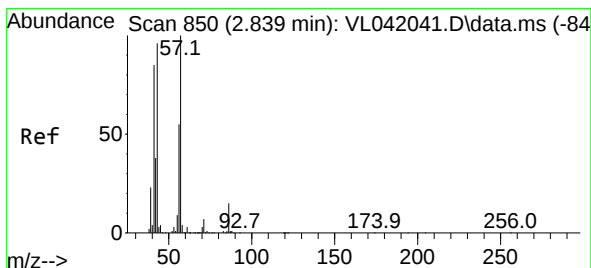
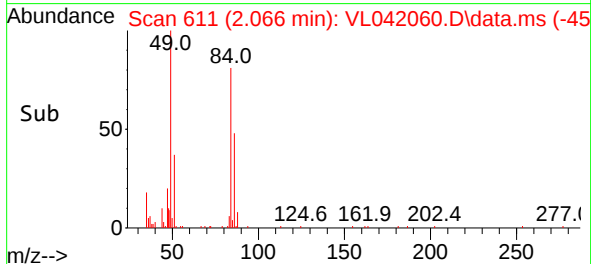
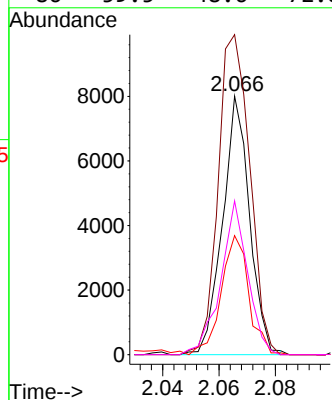
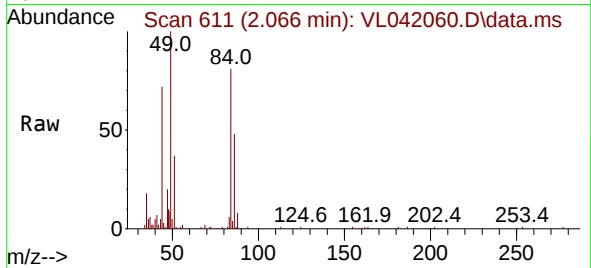
#20
Methylene Chloride
Concen: 1.037 ppbv
RT: 2.066 min Scan# 612
Delta R.T. -0.003 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 84 Resp: 5332
Ion Ratio Lower Upper
84 100
49 130.0 130.0 195.0
51 45.3 37.4 56.0
86 59.5 48.6 72.8

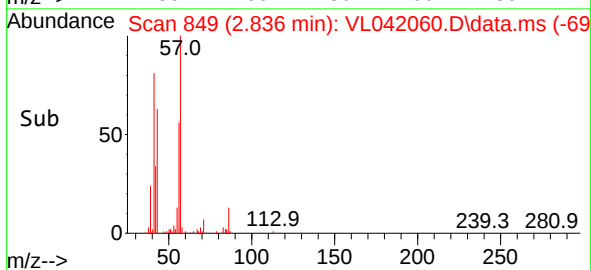
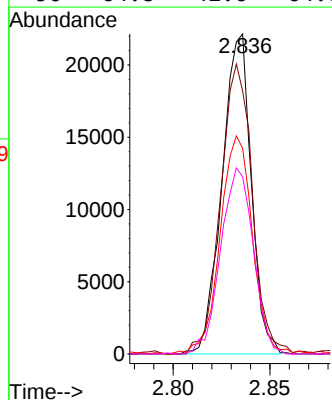
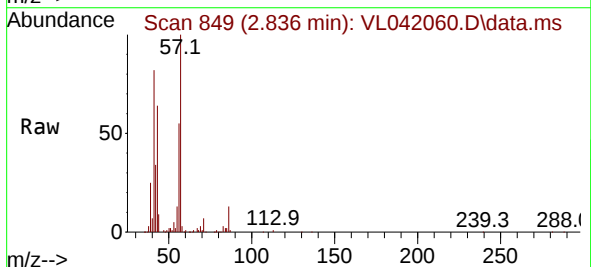
Manual Integrations
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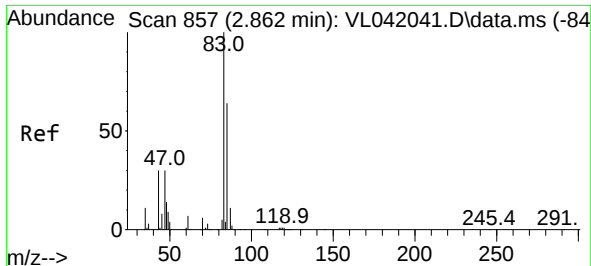
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#26
Hexane
Concen: 1.057 ppbv
RT: 2.836 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion: 57 Resp: 23263
Ion Ratio Lower Upper
57 100
41 100.1 70.6 106.0
43 76.0 199.4 299.0#
56 64.8 42.6 64.0#





#29

Chloroform

Concen: 0.594 ppbv

RT: 2.852 min Scan# 81

Delta R.T. -0.010 min

Lab File: VL042060.D

Acq: 26 Feb 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 1759

Ion Ratio Lower Upper

83 100

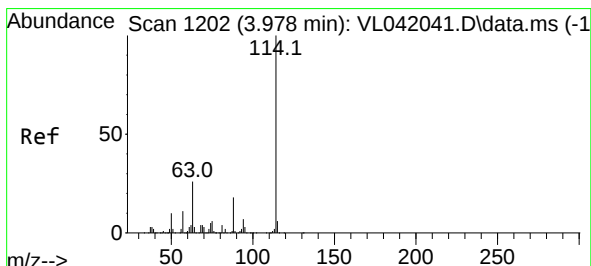
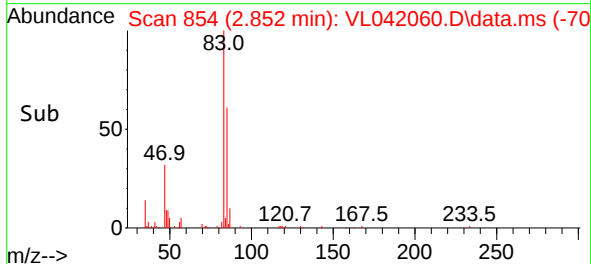
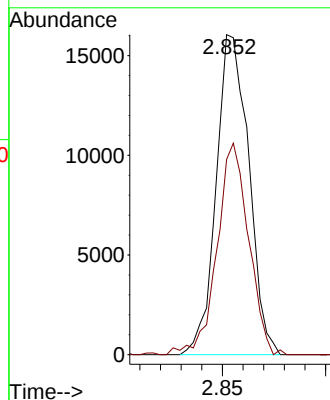
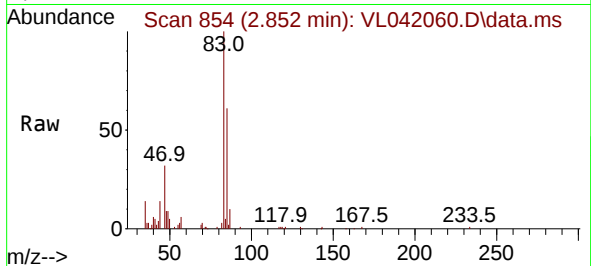
85 59.6 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/27/2025

Supervised By :Mahesh Dadoda 02/27/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.969 min Scan# 1199

Delta R.T. -0.009 min

Lab File: VL042060.D

Acq: 26 Feb 2025 14:24

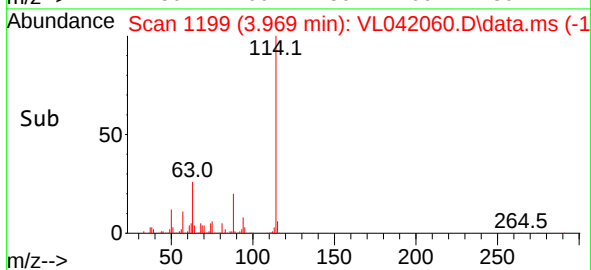
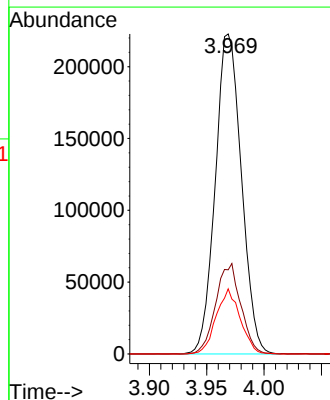
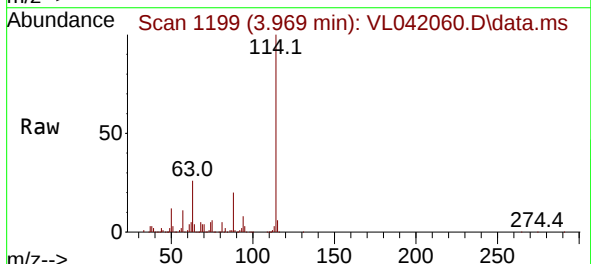
Tgt Ion:114 Resp: 353365

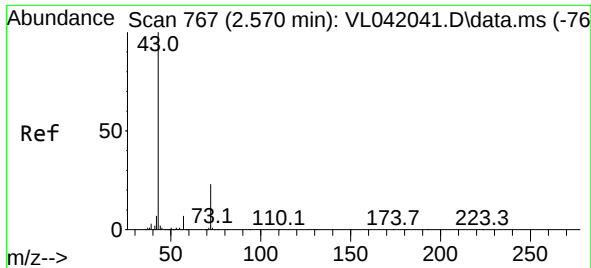
Ion Ratio Lower Upper

114 100

63 27.1 20.1 30.1

88 18.7 14.3 21.5





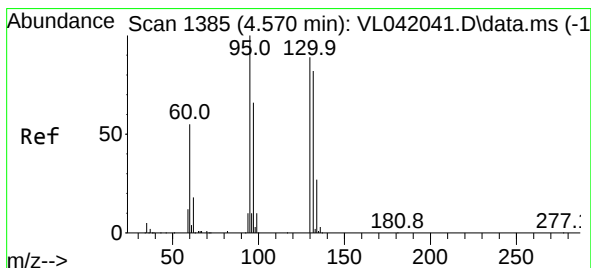
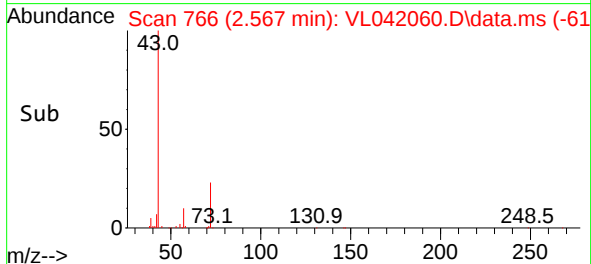
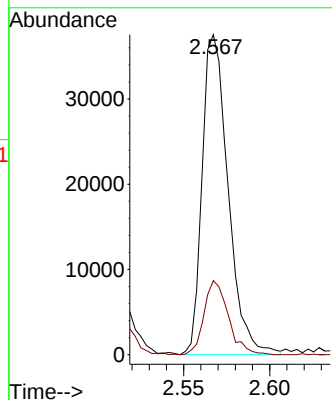
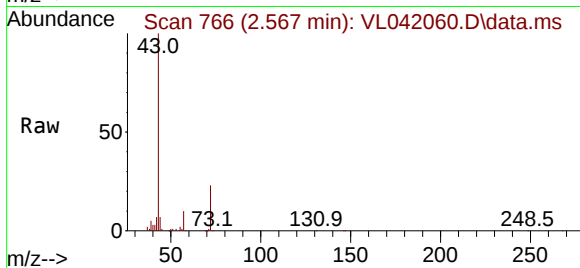
#34
2-Butanone
Concen: 1.430 ppbv
RT: 2.567 min Scan# 767
Delta R.T. -0.003 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 3936
Ion Ratio Lower Upper
43 100
72 21.7 18.5 27.7

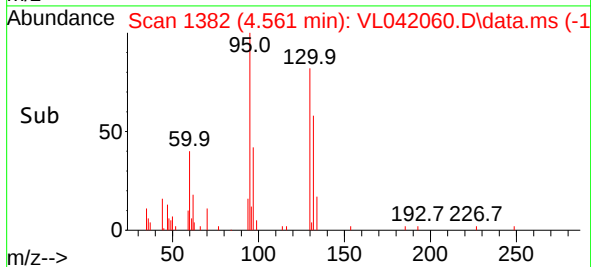
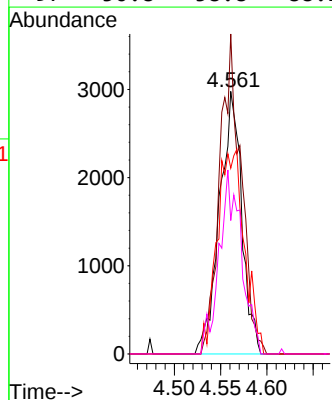
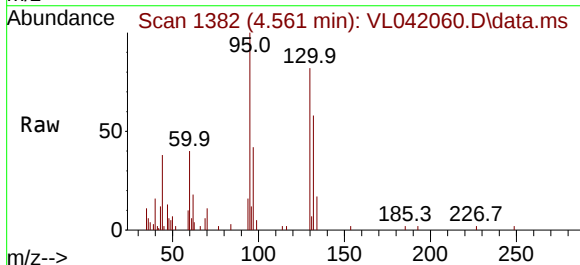
Manual Integrations
APPROVED

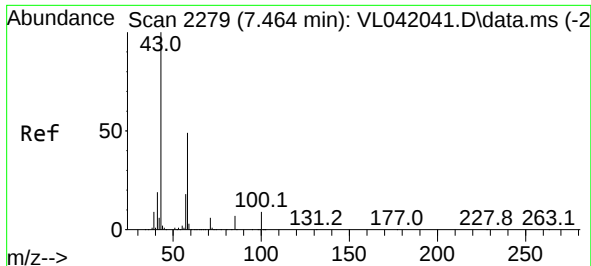
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#38
Trichloroethene
Concen: 0.329 ppbv m
RT: 4.561 min Scan# 1382
Delta R.T. -0.009 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

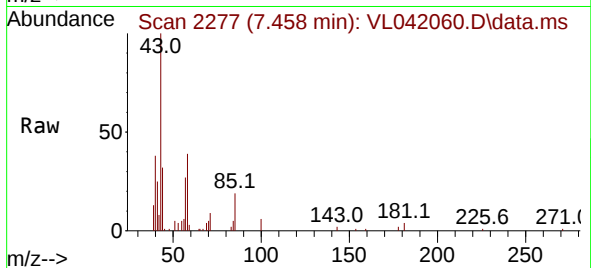
Tgt Ion:130 Resp: 4971
Ion Ratio Lower Upper
130 100
95 121.9 89.5 134.3
132 70.7 73.8 110.6#
97 50.8 58.8 88.2#





#51
2-Hexanone
Concen: 0.480 ppbv m
RT: 7.458 min Scan# 211
Delta R.T. -0.006 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

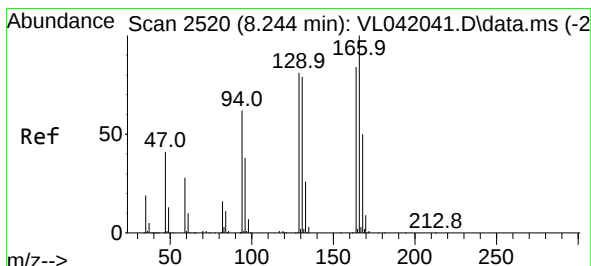
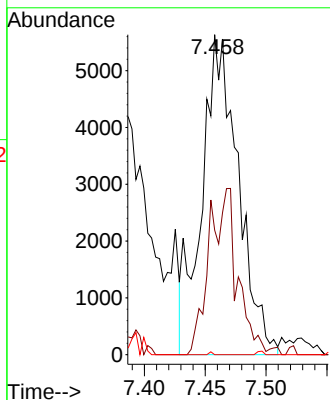
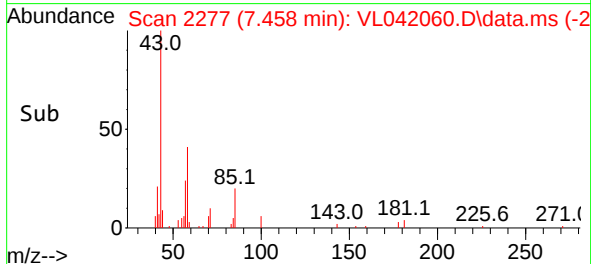
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 11752
Ion Ratio Lower Upper
43 100
58 0.0 39.0 58.6
98 0.0 0.1 0.1

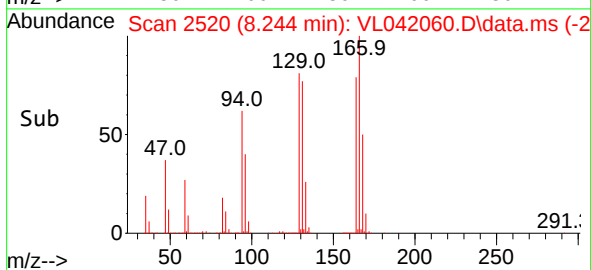
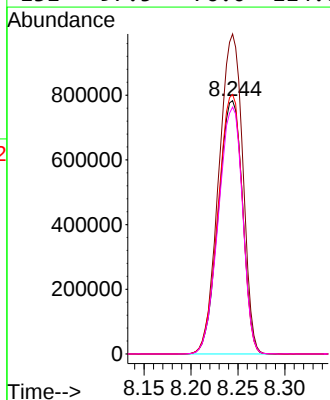
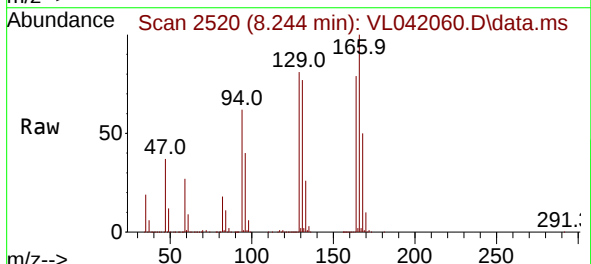
Manual Integrations
APPROVED

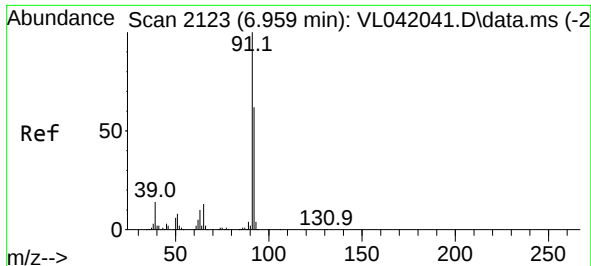
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#52
Tetrachloroethene
Concen: 110.610 ppbv
RT: 8.244 min Scan# 2520
Delta R.T. 0.000 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion:164 Resp: 1400742
Ion Ratio Lower Upper
164 100
166 126.4 95.7 143.5
129 102.5 77.1 115.7
131 97.5 76.0 114.0





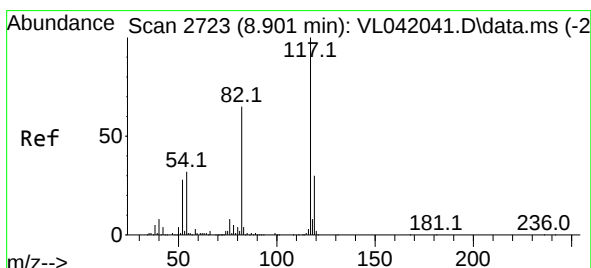
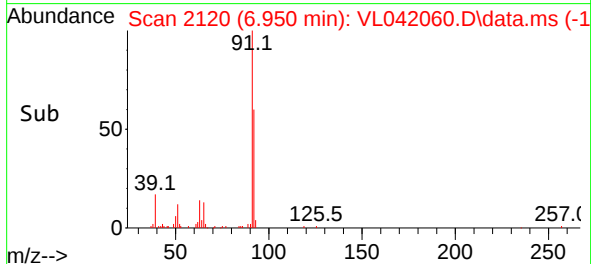
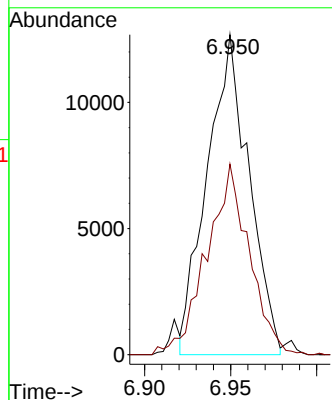
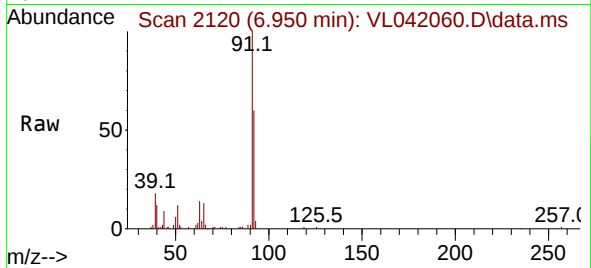
#53
Toluene
Concen: 0.519 ppbv
RT: 6.950 min Scan# 2123
Delta R.T. -0.010 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 21458
Ion Ratio Lower Upper
91 100
92 60.4 49.0 73.6

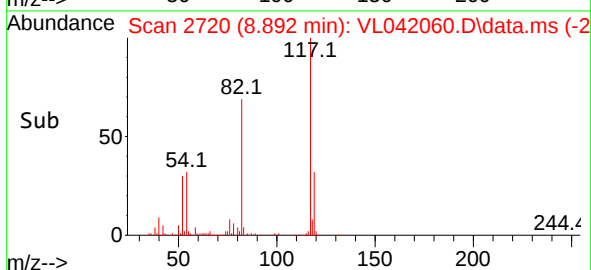
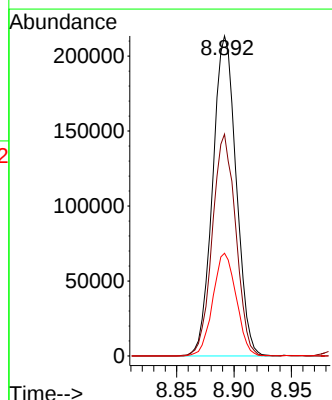
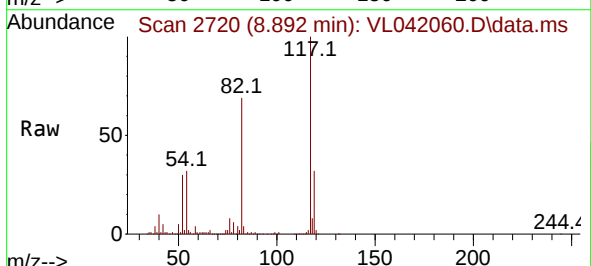
Manual Integrations
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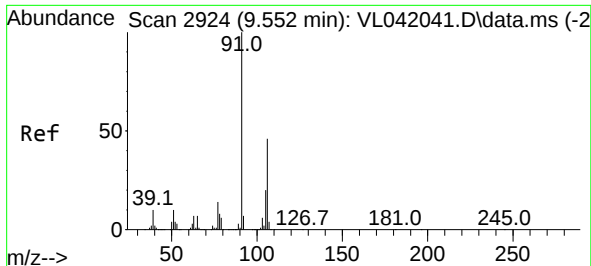
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.892 min Scan# 2720
Delta R.T. -0.009 min
Lab File: VL042060.D
Acq: 26 Feb 2025 14:24

Tgt Ion:117 Resp: 304148
Ion Ratio Lower Upper
117 100
82 69.1 55.0 82.6
119 32.0 25.9 38.9





#59

m/p-Xylene

Concen: 0.156 ppbv m

RT: 9.539 min Scan# 2924

Delta R.T. -0.013 min

Lab File: VL042060.D

Acq: 26 Feb 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

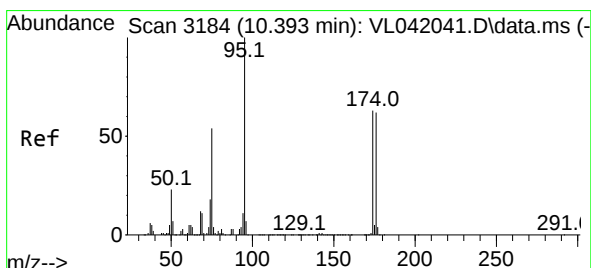
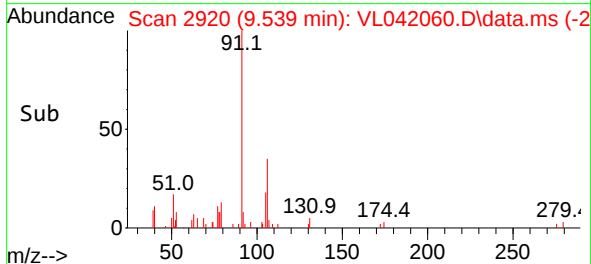
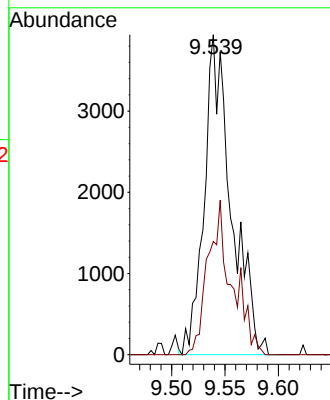
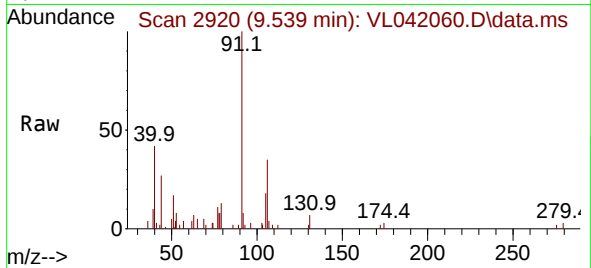
SV1

Tgt Ion: 91 Resp: 695
 Ion Ratio Lower Upper
 91 100
 106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.568 ppbv

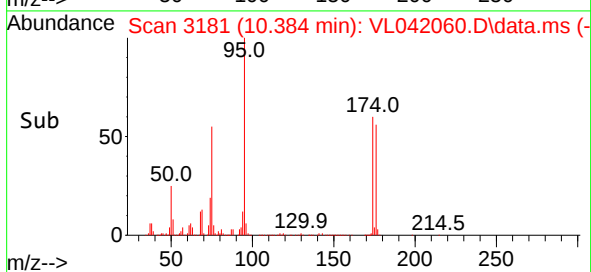
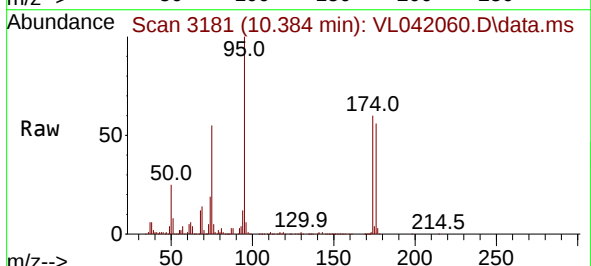
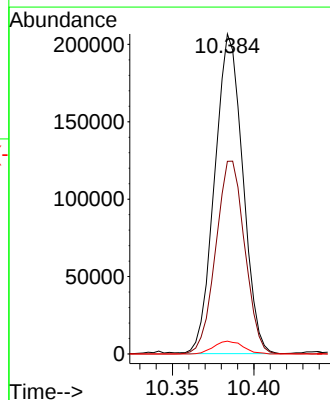
RT: 10.384 min Scan# 3181

Delta R.T. -0.009 min

Lab File: VL042060.D

Acq: 26 Feb 2025 14:24

Tgt Ion: 95 Resp: 247293
 Ion Ratio Lower Upper
 95 100
 174 62.2 51.8 77.6
 175 4.2 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	02/24/25
Project:	48-07 Bell Blvd, Bayside NY	Date Received:	02/24/25
Client Sample ID:	SV1DL	SDG No.:	Q1419
Lab Sample ID:	Q1419-01DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042062.D	40		02/26/25 15:27	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
156-59-2	cis-1,2-Dichloroethene	3.60	14.3	UD	14.3	79.3	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
79-01-6	Trichloroethene	0.68	3.65	UD	3.65	6.45	ug/m3
127-18-4	Tetrachloroethene	480	3250	D	4.07	8.14	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	154000		2.793			
540-36-3	1,4-Difluorobenzene	356000		3.968			
3114-55-4	Chlorobenzene-d5	299000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042062.D
 Acq On : 26 Feb 2025 15:27
 Operator : SY/MD
 Sample : Q1419-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Feb 27 00:31:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	153569	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	355801	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	298592	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	235710	10.261	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%
Target Compounds						
52) Tetrachloroethene	8.237	164	154061	12.082	ppbv	Qvalue 93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

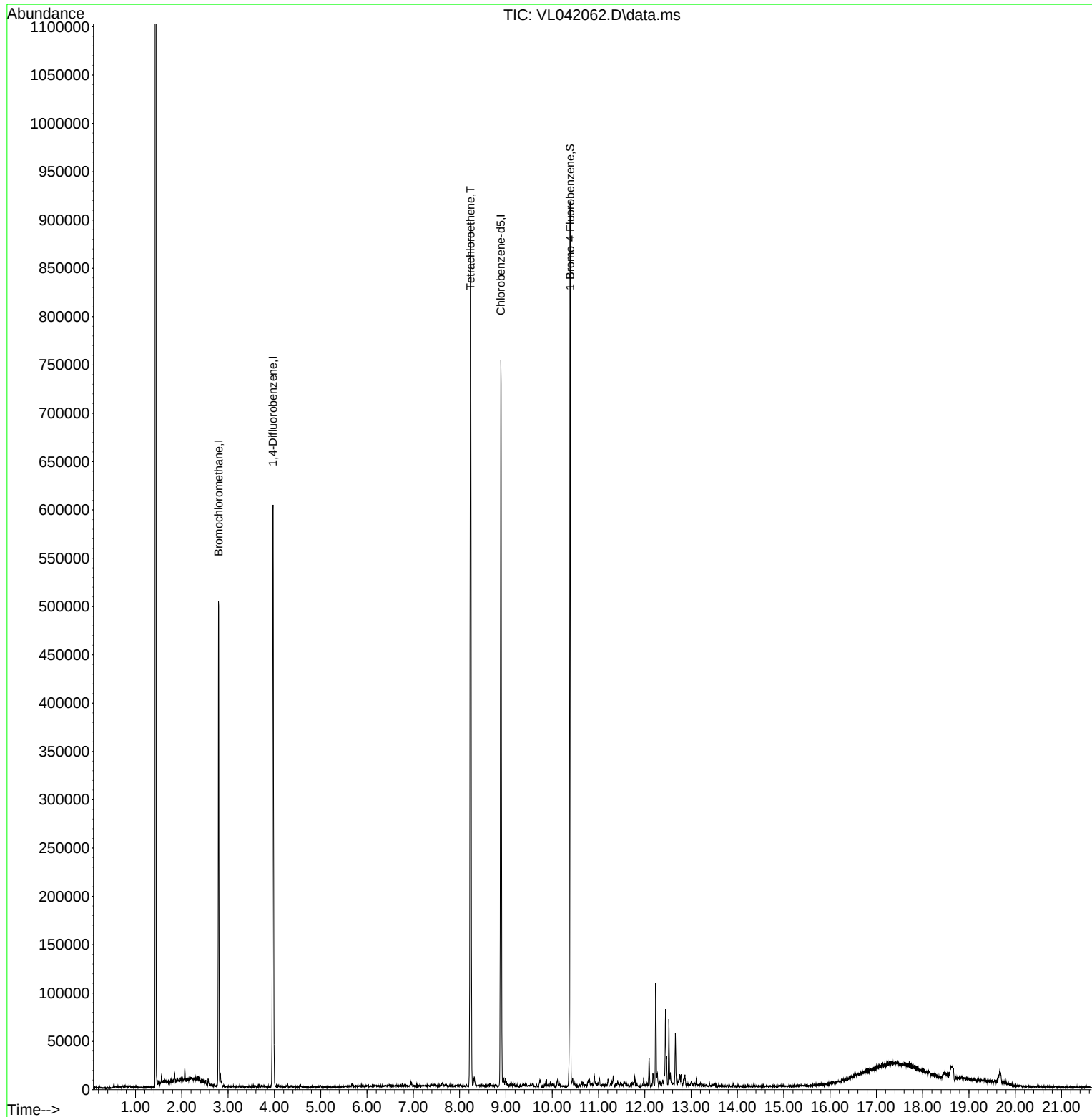
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Data File : VL042062.D
Acq On : 26 Feb 2025 15:27
Operator : SY/MD
Sample : Q1419-01DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

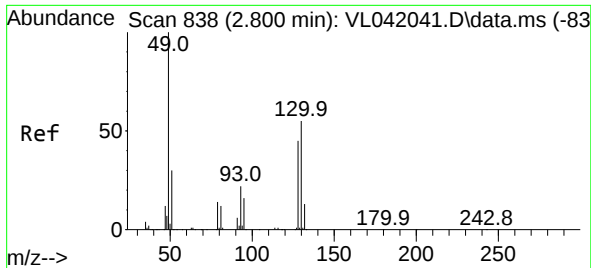
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
Supervised By : Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:31:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





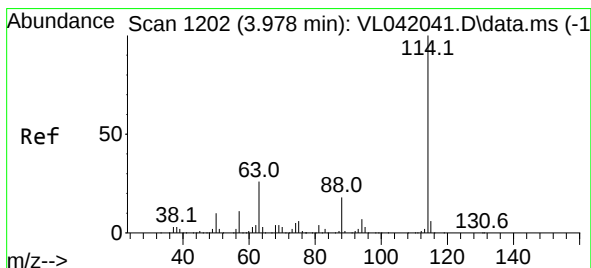
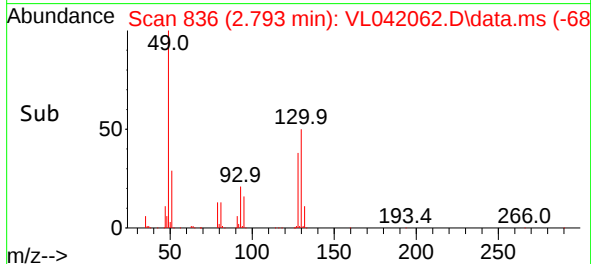
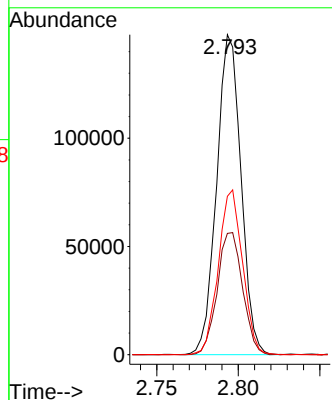
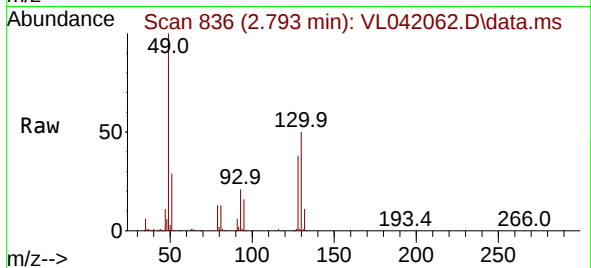
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL042062.D
Acq: 26 Feb 2025 15:27

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 49 Resp: 153569
Ion Ratio Lower Upper
49 100
128 39.7 21.6 64.8
130 51.2 27.8 83.4

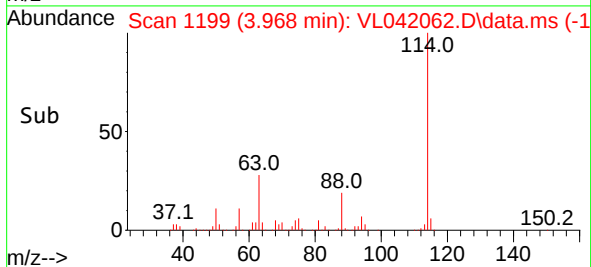
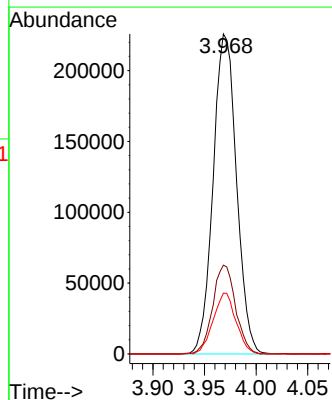
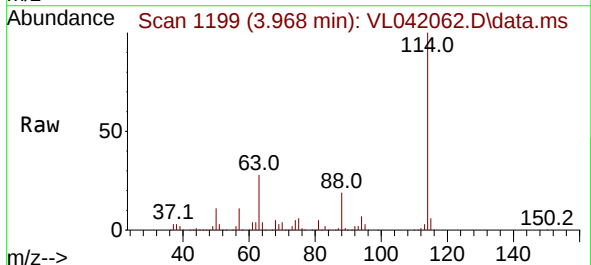
Manual Integrations
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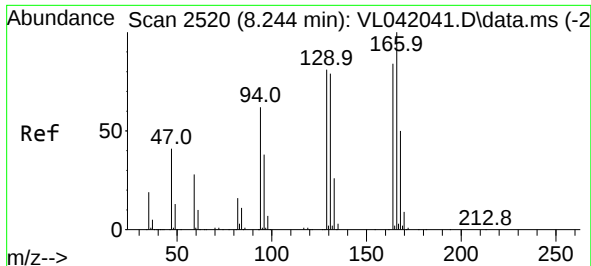
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.010 min
Lab File: VL042062.D
Acq: 26 Feb 2025 15:27

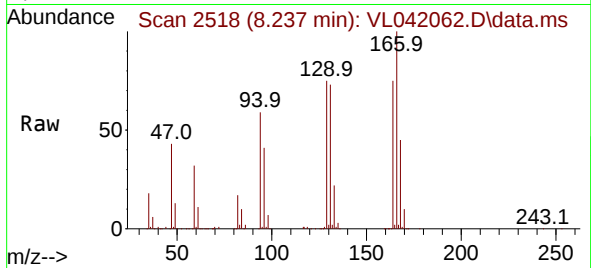
Tgt Ion:114 Resp: 355801
Ion Ratio Lower Upper
114 100
63 27.1 20.1 30.1
88 18.6 14.3 21.5





#52
Tetrachloroethene
Concen: 12.082 ppbv
RT: 8.237 min Scan# 21
Delta R.T. -0.007 min
Lab File: VL042062.D
Acq: 26 Feb 2025 15:27

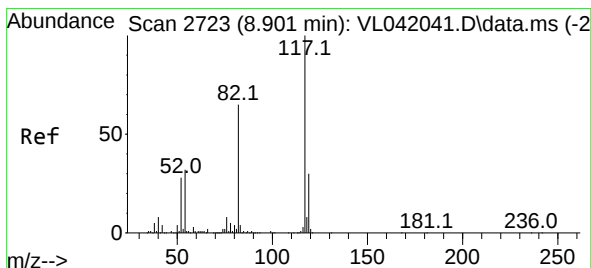
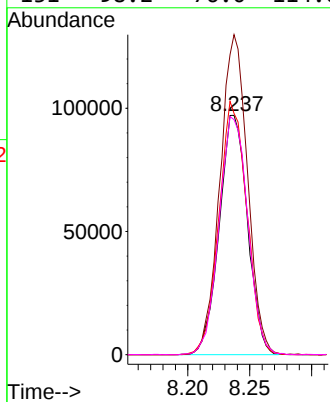
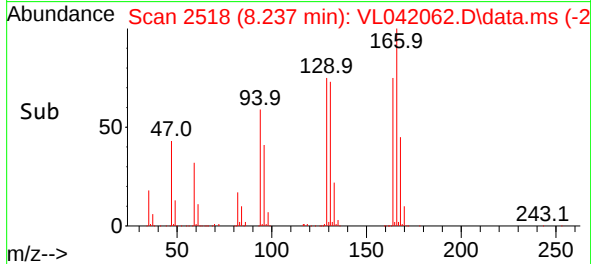
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion:164 Resp: 15406
Ion Ratio Lower Upper
164 100
166 133.7 95.7 143.5
129 100.7 77.1 115.7
131 98.2 76.0 114.0

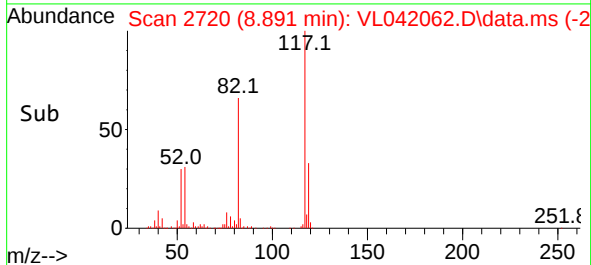
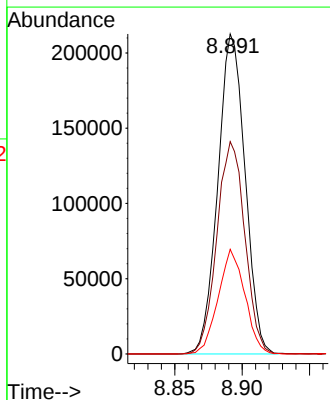
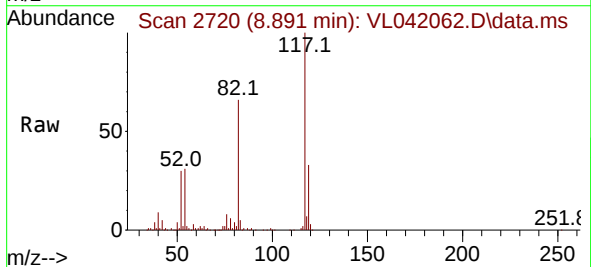
Manual Integrations
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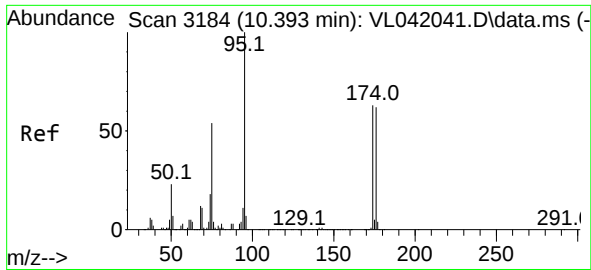
Reviewed By :Semsettin Yesilyurt 02/27/2025
Supervised By :Mahesh Dadoda 02/27/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. -0.010 min
Lab File: VL042062.D
Acq: 26 Feb 2025 15:27

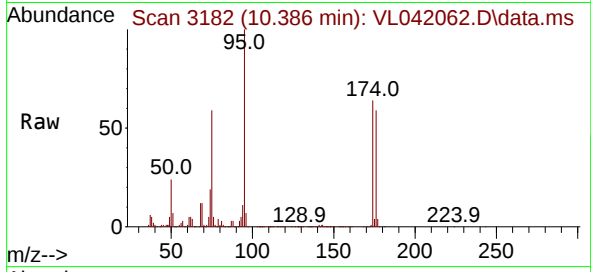
Tgt Ion:117 Resp: 298592
Ion Ratio Lower Upper
117 100
82 68.3 55.0 82.6
119 32.1 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.261 ppbv
 RT: 10.386 min Scan# 3184
 Delta R.T. -0.007 min
 Lab File: VL042062.D
 Acq: 26 Feb 2025 15:27

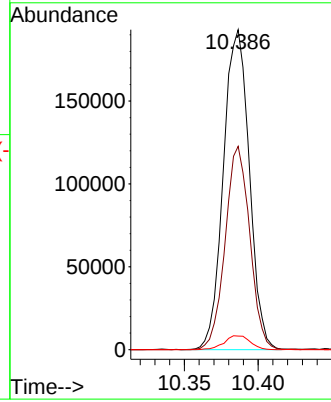
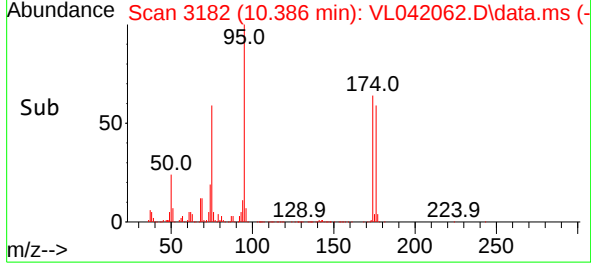
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion: 95 Resp: 235710
 Ion Ratio Lower Upper
 95 100
 174 60.7 51.8 77.6
 175 4.4 3.9 5.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/24/25
Project:	48-07 Bell Blvd, Bayside NY	Date Received:	02/24/25
Client Sample ID:	IA1	SDG No.:	Q1419
Lab Sample ID:	Q1419-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042055.D	1		02/26/25 11:40	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.040	0.10		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	1.40	9.49		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.8			
540-36-3	1,4-Difluorobenzene	382000		3.975			
3114-55-4	Chlorobenzene-d5	315000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042055.D
 Acq On : 26 Feb 2025 11:40
 Operator : SY/MD
 Sample : Q1419-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin
 Yesilyurt

Quant Time: Feb 27 00:27:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	157204	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	381648	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	315276	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	249506	10.287	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.502	85	6898	0.422	ppbv	99
3) Chlorodifluoromethane	1.479	51	11916	0.522	ppbv #	86
4) Chloromethane	1.538	50	2903	0.480	ppbv #	82
5) Vinyl Chloride	1.586	62	213	0.037	ppbv #	43
9) Propene	1.492	41	28218m	3.032	ppbv	
11) Trichlorofluoromethane	1.884	101	3397	0.207	ppbv	98
13) Ethanol	1.729	45	18480	31.276	ppbv	96
15) Acetone	1.842	43	35580	2.563	ppbv	99
19) Isopropyl Alcohol	1.894	45	13839	1.735	ppbv #	64
20) Methylene Chloride	2.068	84	2153	0.410	ppbv	90
26) Hexane	2.842	57	6563	0.292	ppbv #	44
29) Chloroform	2.858	83	15138	0.501	ppbv	96
34) 2-Butanone	2.573	43	8375	0.282	ppbv	94
35) Carbon Tetrachloride	3.787	117	2031m	0.077	ppbv	
36) Benzene	3.674	78	46245	1.157	ppbv	94
52) Tetrachloroethene	8.241	164	19604	1.433	ppbv	96
53) Toluene	6.956	91	12573m	0.282	ppbv	
59) m/p-Xylene	9.552	91	5078m	0.110	ppbv	
79) Naphthalene	13.526	128	3874	0.102	ppbv #	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

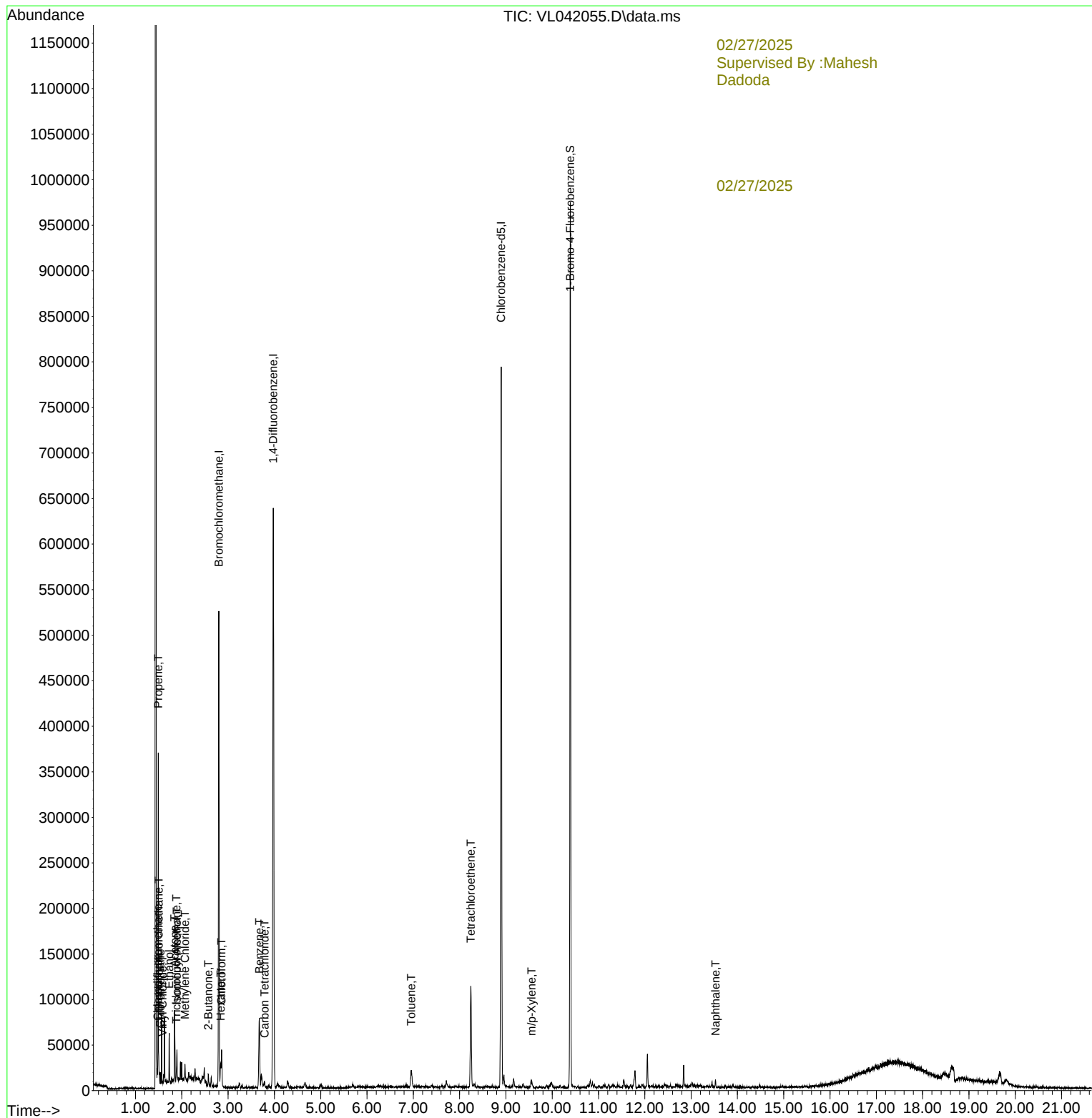
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042055.D
Acq On : 26 Feb 2025 11:40
Operator : SY/MD
Sample : Q1419-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

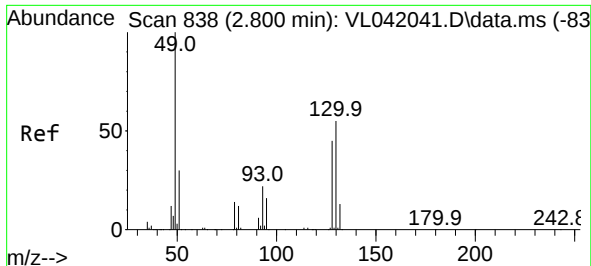
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

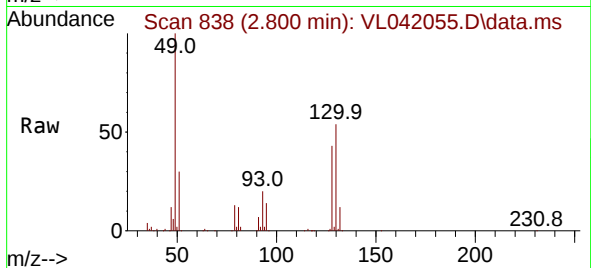
Quant Time: Feb 27 00:27:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 838
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

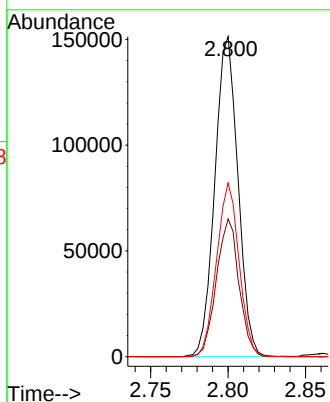
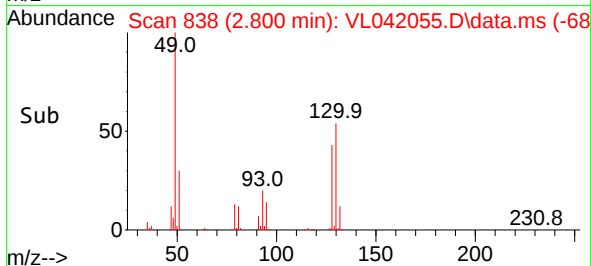
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 157204
Ion Ratio Lower Upper
49 100
128 42.1 21.6 64.8
130 52.8 27.8 83.4

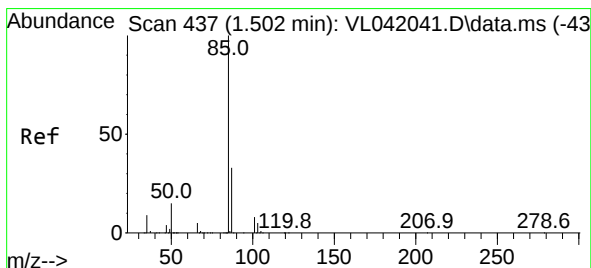
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

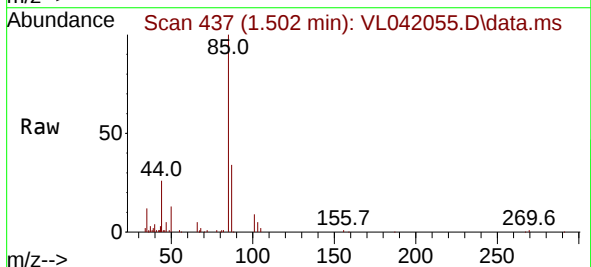


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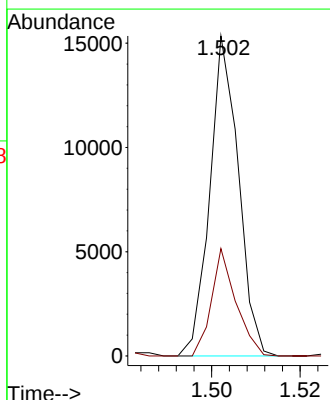
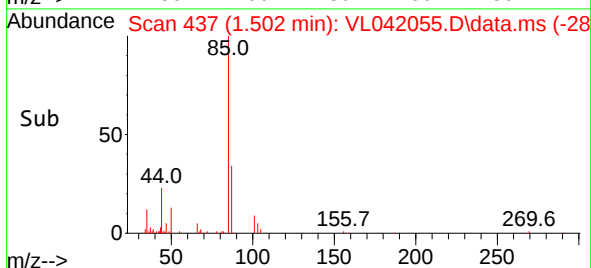
02/27/2025

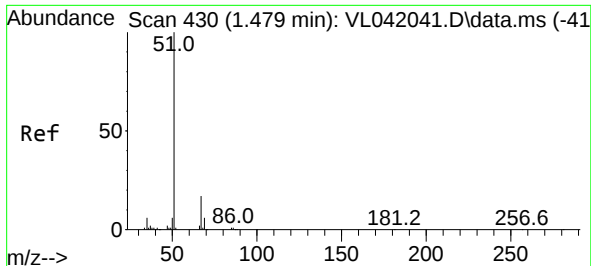


#2
Dichlorodifluoromethane
Concen: 0.422 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40



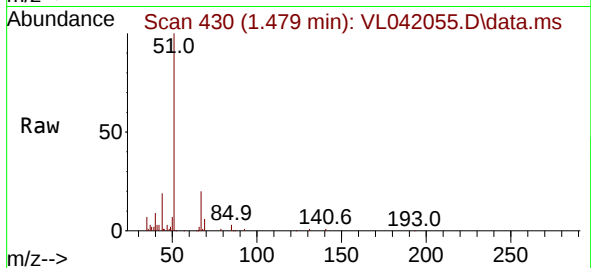
Tgt Ion: 85 Resp: 6898
Ion Ratio Lower Upper
85 100
87 33.6 26.4 39.6





#3
Chlorodifluoromethane
Concen: 0.522 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

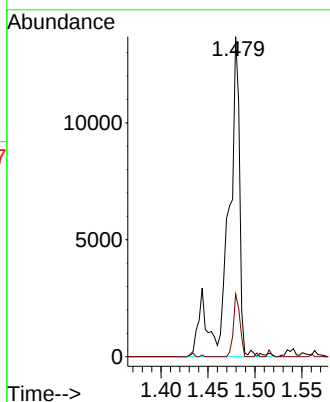
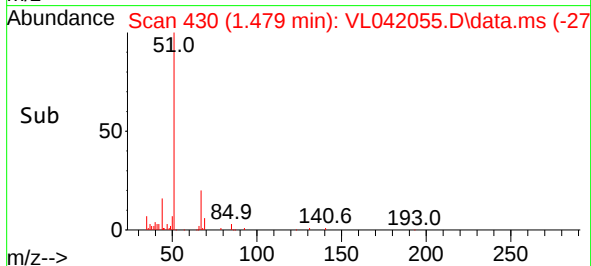
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 11910
Ion Ratio Lower Upper
51 100
67 11.1 13.7 20.5

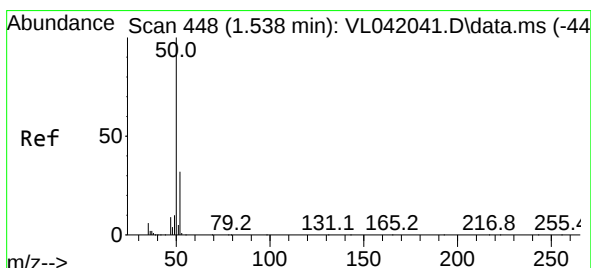
Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

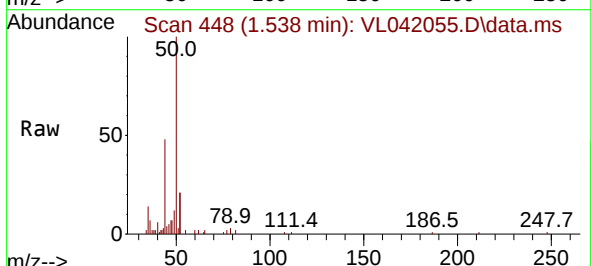


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Dadoda

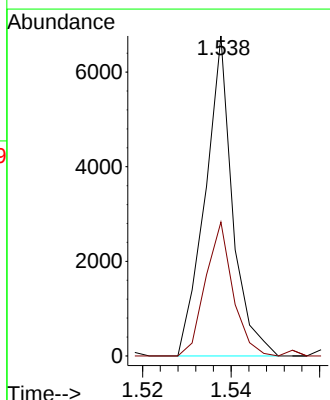
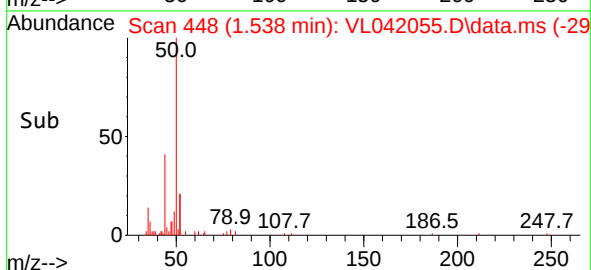
02/27/2025

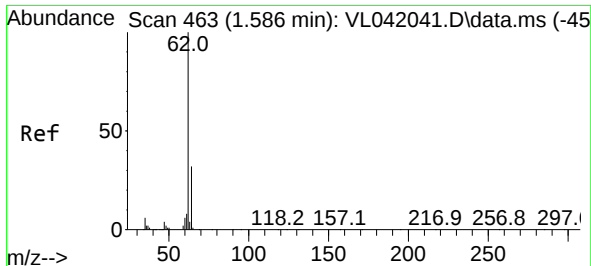


#4
Chloromethane
Concen: 0.480 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40



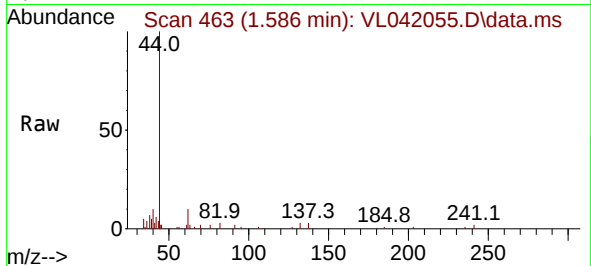
Tgt Ion: 50 Resp: 2903
Ion Ratio Lower Upper
50 100
52 41.9 25.4 38.0





#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 1.586 min Scan# 463
 Delta R.T. -0.000 min
 Lab File: VL042055.D
 Acq: 26 Feb 2025 11:40

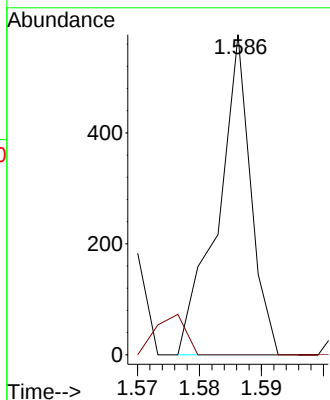
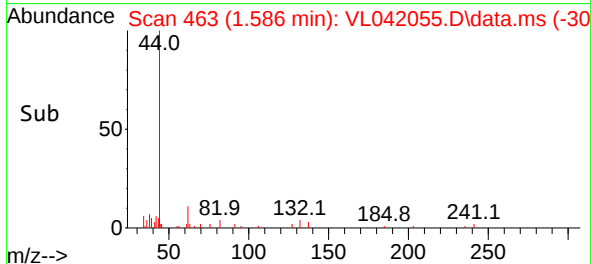
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 62 Resp: 211
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.3 37.9

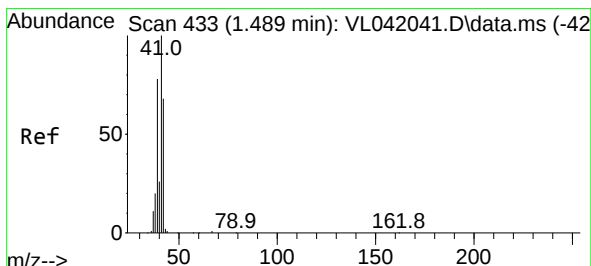
Manual Integrations
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Reviewed By :Semsettin
 Yesilyurt

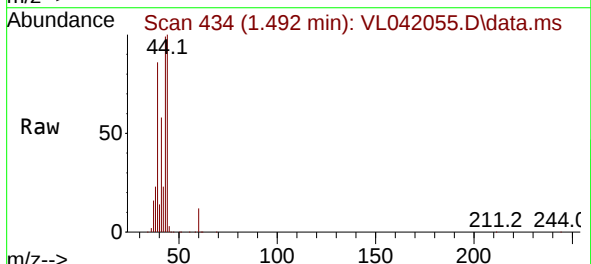


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 Supervised By :Mahesh
 Dadoda

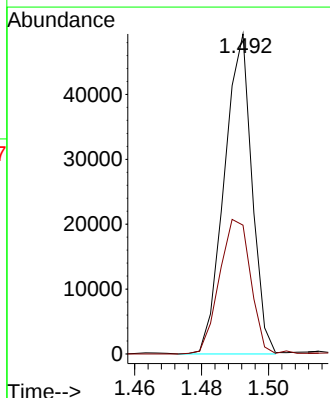
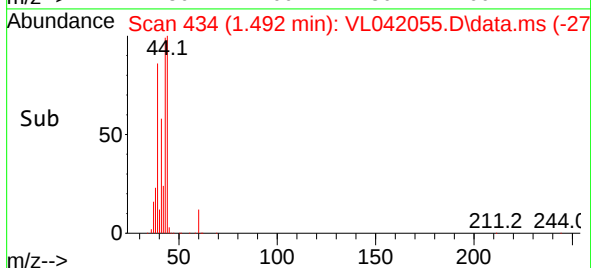
02/27/2025

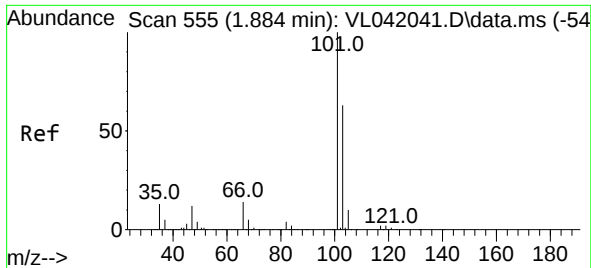


#9
 Propene
 Concen: 3.032 ppbv m
 RT: 1.492 min Scan# 434
 Delta R.T. 0.003 min
 Lab File: VL042055.D
 Acq: 26 Feb 2025 11:40



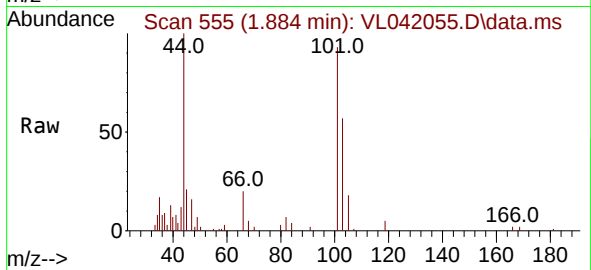
Tgt Ion: 41 Resp: 28218
 Ion Ratio Lower Upper
 41 100
 42 3.3 55.8 83.6





#11
Trichlorofluoromethane
Concen: 0.207 ppbv
RT: 1.884 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

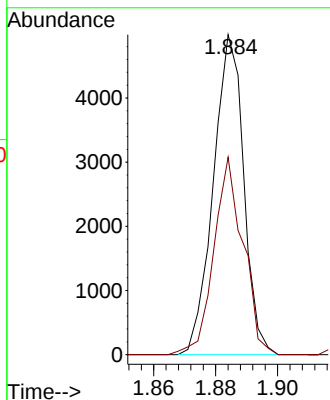
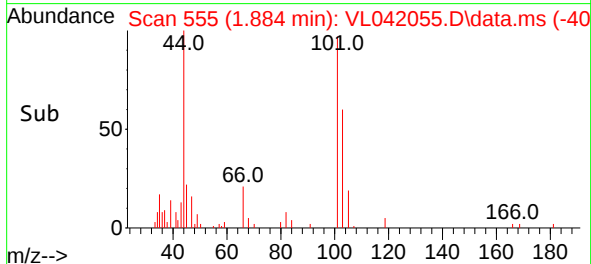
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 339
Ion Ratio Lower Upper
101 100
103 61.7 50.6 75.8

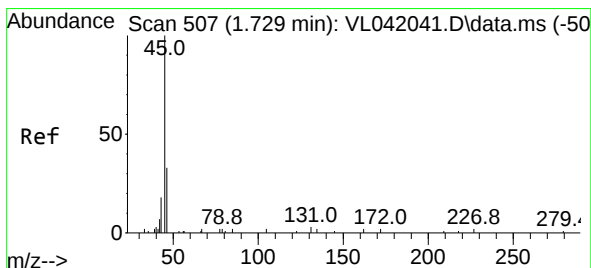
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Reviewed By :Semsettin
Yesilyurt

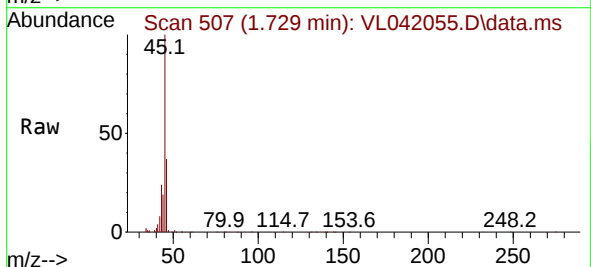


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Supervised By :Mahesh
Dadoda

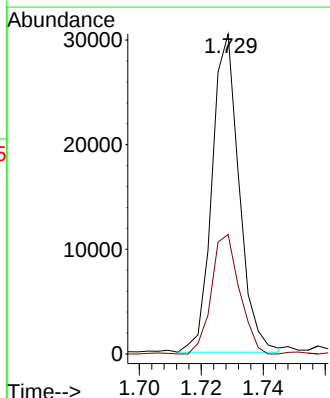
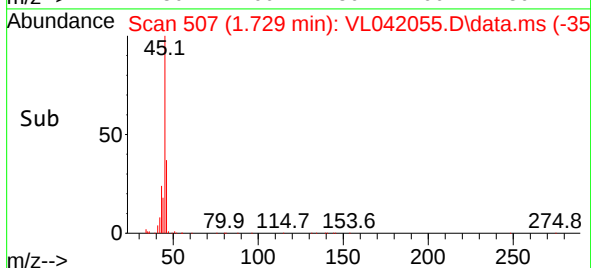
02/27/2025

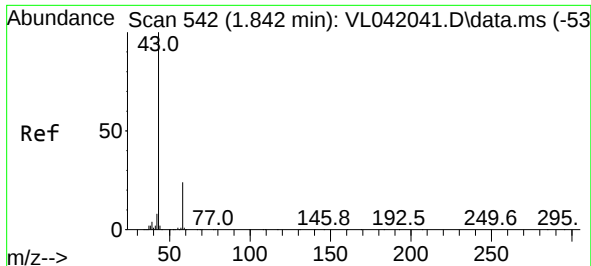


#13
Ethanol
Concen: 31.276 ppbv
RT: 1.729 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40



Tgt Ion: 45 Resp: 18480
Ion Ratio Lower Upper
45 100
46 39.9 17.1 68.3





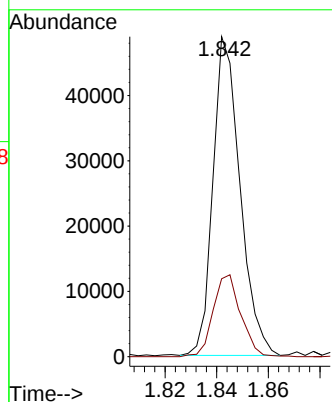
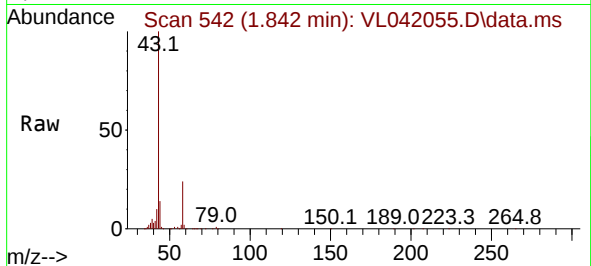
#15
Acetone
Concen: 2.563 ppbv
RT: 1.842 min Scan# 542
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 35580
Ion Ratio Lower Upper
43 100
58 26.2 20.7 31.1

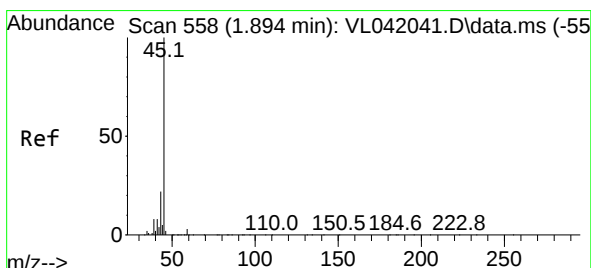
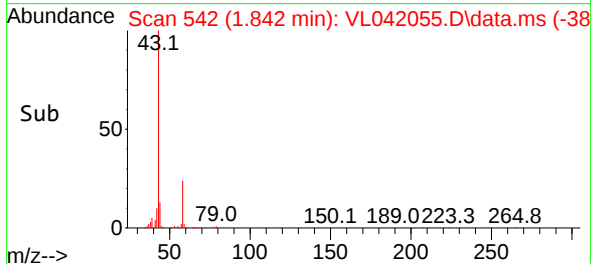
Manual Integrations
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Reviewed By :Semsettin
Yesilyurt



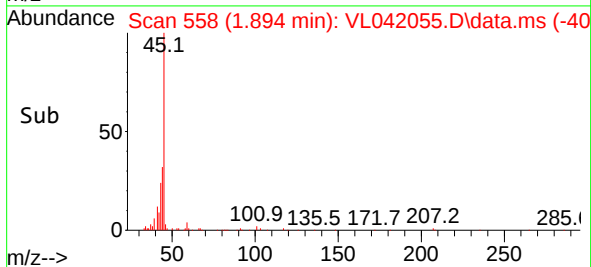
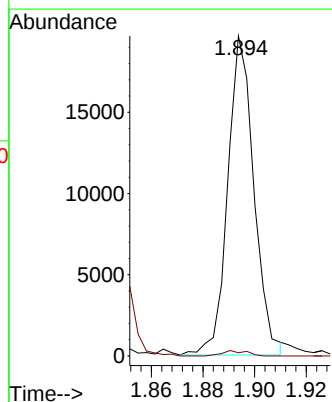
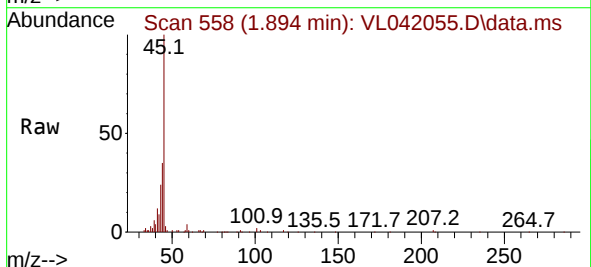
02/27/2025
Supervised By :Mahesh
Dadoda

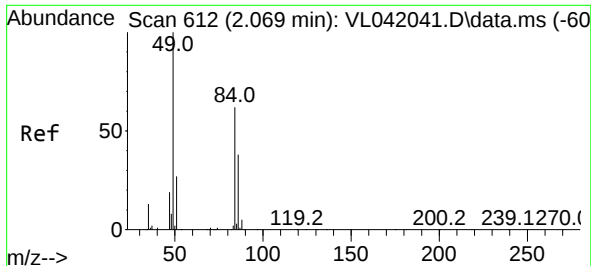
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#19
Isopropyl Alcohol
Concen: 1.735 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

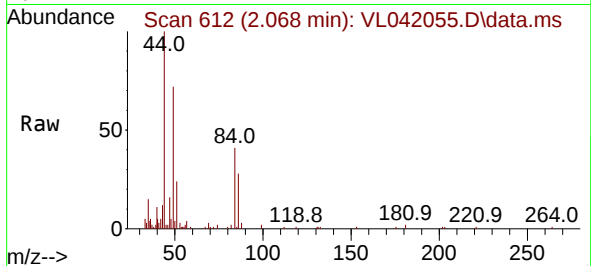
Tgt Ion: 45 Resp: 13839
Ion Ratio Lower Upper
45 100
58 67.4 35.3 52.9





#20
Methylene Chloride
Concen: 0.410 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

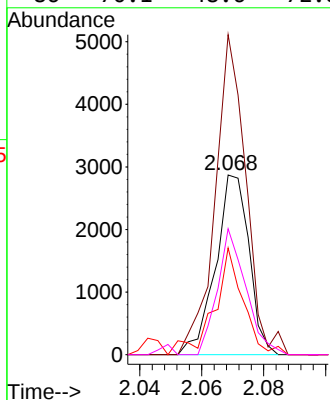
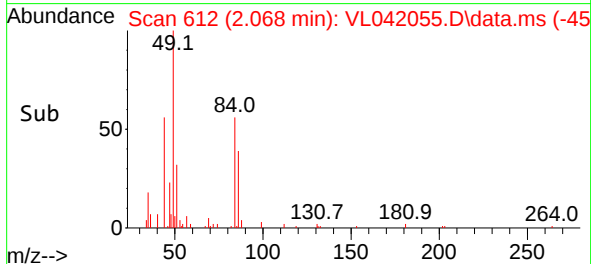
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion	Ratio	Lower	Upper
84	100		
49	173.7	130.0	195.0
51	54.7	37.4	56.0
86	70.1	48.6	72.8

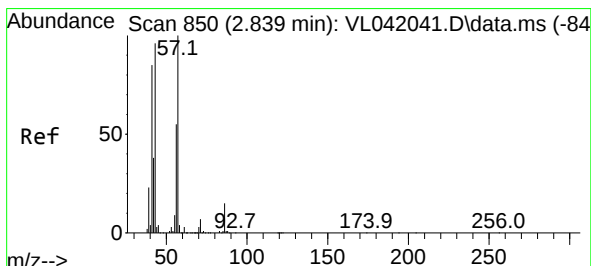
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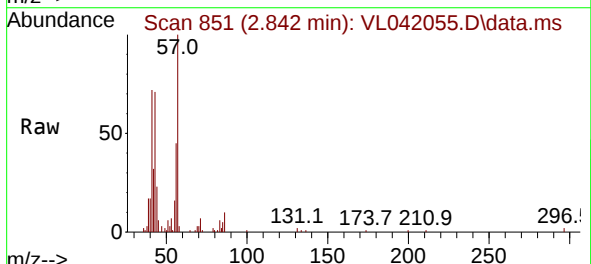


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Dadoda

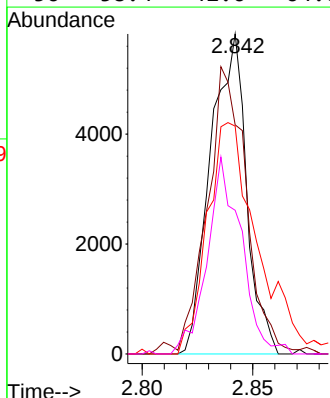
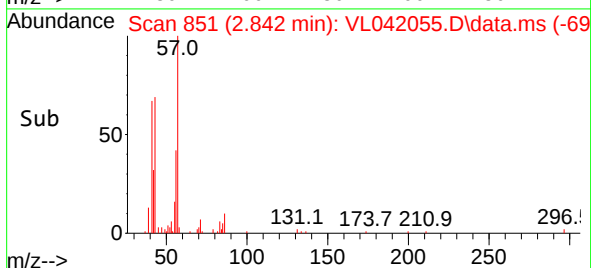
02/27/2025

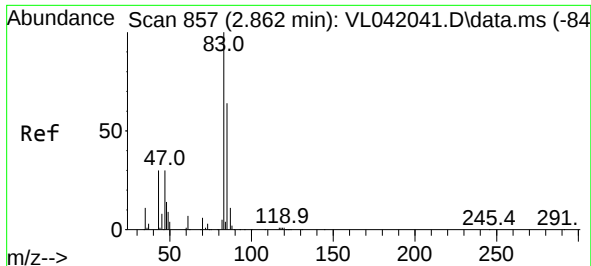


#26
Hexane
Concen: 0.292 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40



Tgt Ion	Ratio	Lower	Upper
57	100		
41	98.9	70.6	106.0
43	105.2	199.4	299.0#
56	58.4	42.6	64.0





#29

Chloroform

Concen: 0.501 ppbv

RT: 2.858 min Scan# 857

Delta R.T. -0.003 min

Lab File: VL042055.D

Acq: 26 Feb 2025 11:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 15138

Ion Ratio Lower Upper

83 100

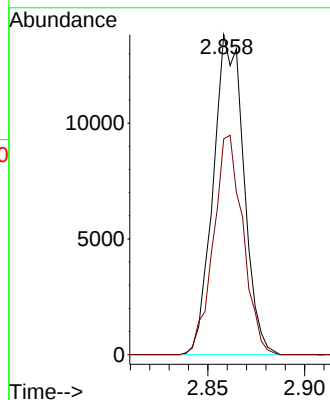
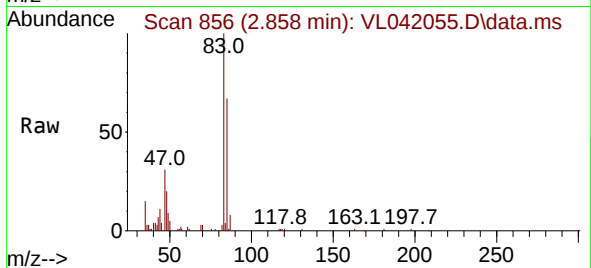
85 67.4 51.2 76.8

Manual Integrations

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Reviewed By :Semsettin

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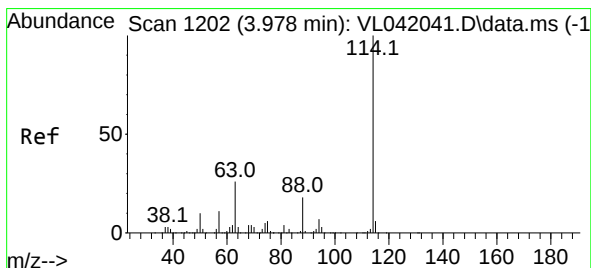
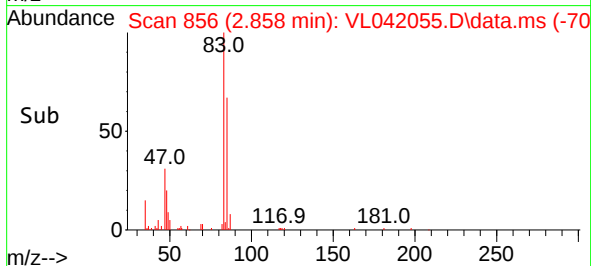


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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 1201

Delta R.T. -0.003 min

Lab File: VL042055.D

Acq: 26 Feb 2025 11:40

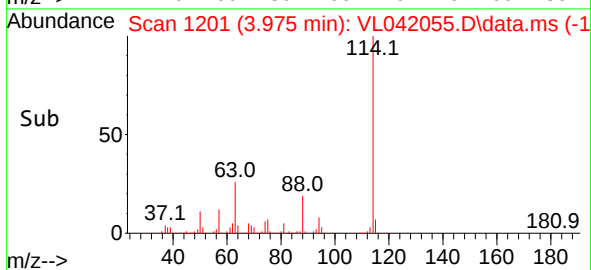
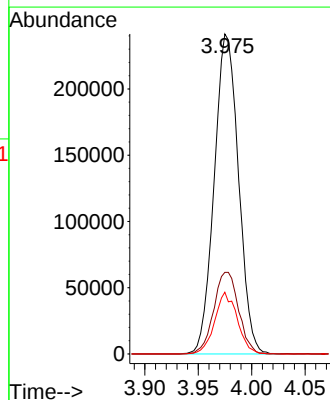
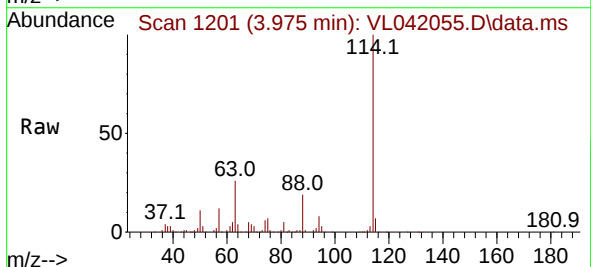
Tgt Ion:114 Resp: 381648

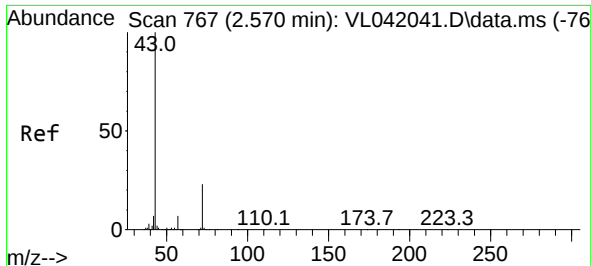
Ion Ratio Lower Upper

114 100

63 26.2 20.1 30.1

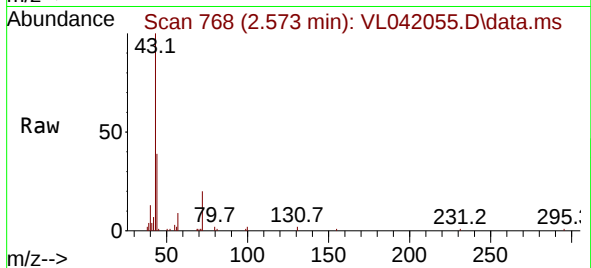
88 18.0 14.3 21.5





#34
2-Butanone
Concen: 0.282 ppbv
RT: 2.573 min Scan# 768
Delta R.T. 0.003 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

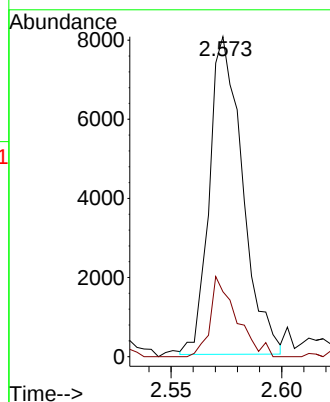
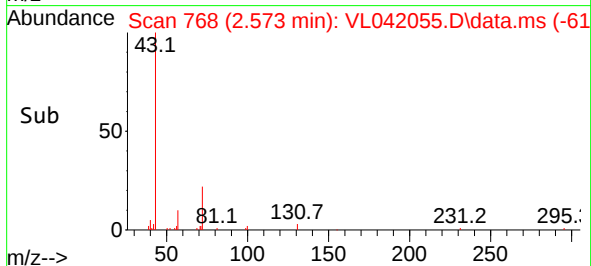
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 837
Ion Ratio Lower Upper
43 100
72 20.2 18.5 27.7

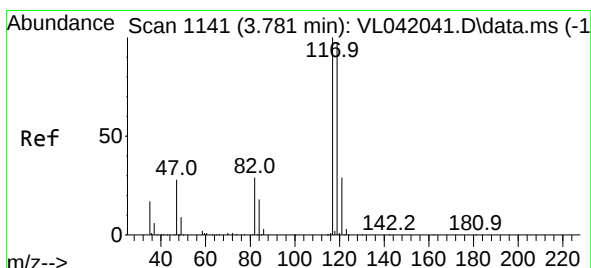
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



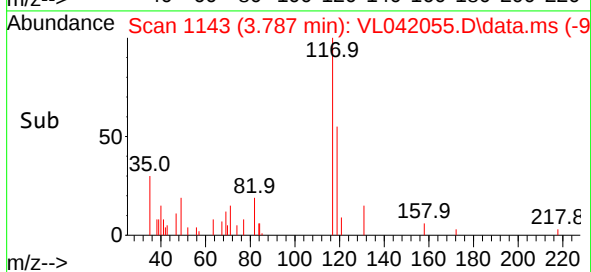
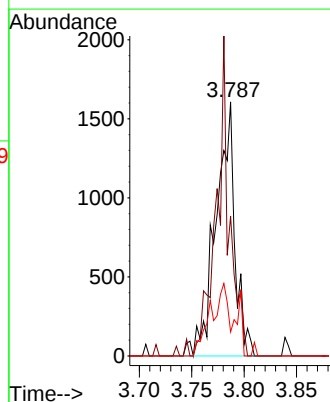
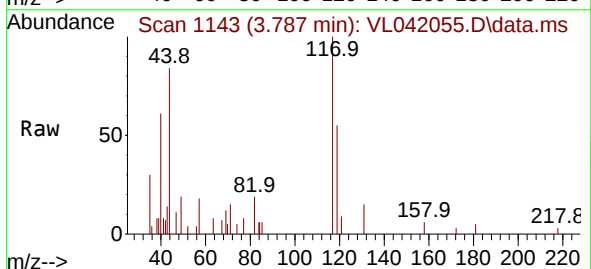
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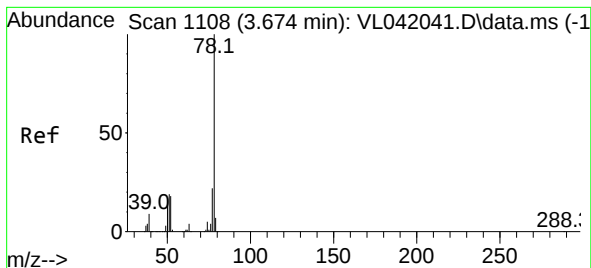
02/27/2025



#35
Carbon Tetrachloride
Concen: 0.077 ppbv m
RT: 3.787 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

Tgt Ion:117 Resp: 2031
Ion Ratio Lower Upper
117 100
119 55.1 77.8 116.8#
121 9.5 23.4 35.0#





#36

Benzene

Concen: 1.157 ppbv

RT: 3.674 min Scan# 1108

Delta R.T. -0.000 min

Lab File: VL042055.D

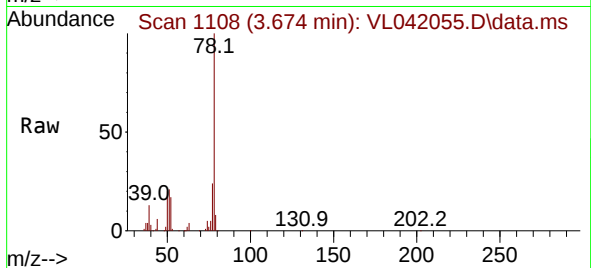
Acq: 26 Feb 2025 11:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

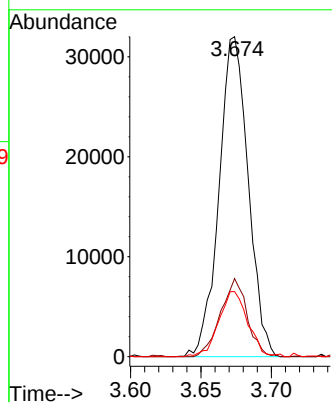


Tgt Ion: 78 Resp: 4624

Ion	Ratio	Lower	Upper
78	100		
77	24.4	17.7	26.5
50	20.4	13.9	20.9

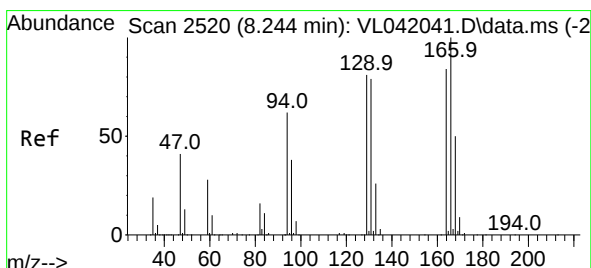
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



02/27/2025
Supervised By :Mahesh
Dadoda

02/27/2025



#52

Tetrachloroethene

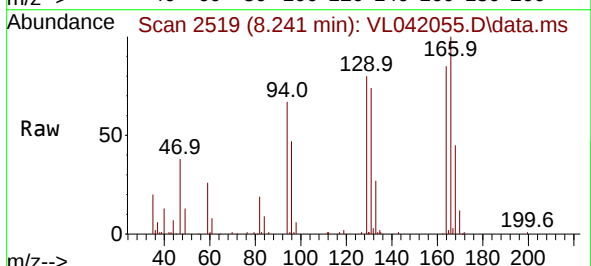
Concen: 1.433 ppbv

RT: 8.241 min Scan# 2519

Delta R.T. -0.003 min

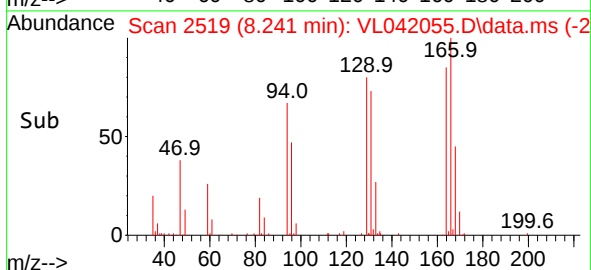
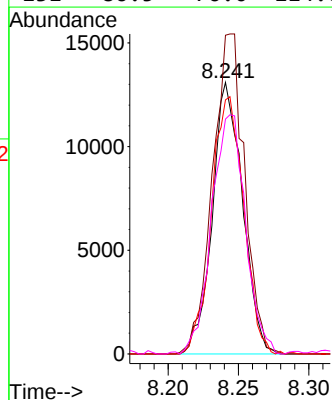
Lab File: VL042055.D

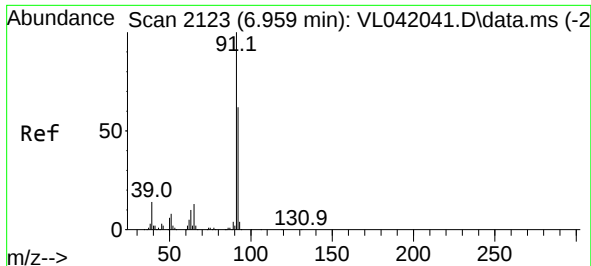
Acq: 26 Feb 2025 11:40



Tgt Ion:164 Resp: 19604

Ion	Ratio	Lower	Upper
164	100		
166	116.9	95.7	143.5
129	94.7	77.1	115.7
131	86.5	76.0	114.0





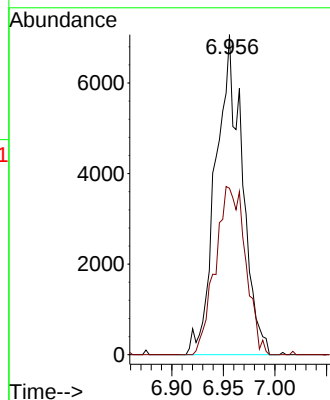
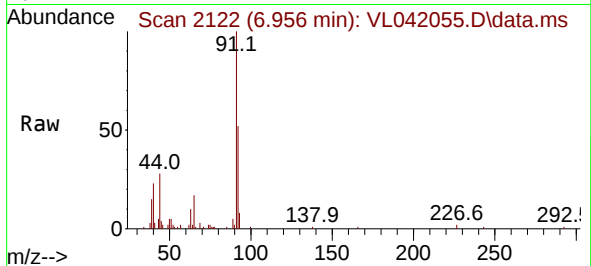
#53
Toluene
Concen: 0.282 ppbv m
RT: 6.956 min Scan# 2123
Delta R.T. -0.003 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 1257
Ion Ratio Lower Upper
91 100
92 60.0 49.0 73.6

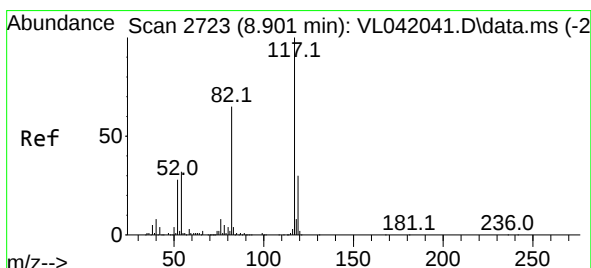
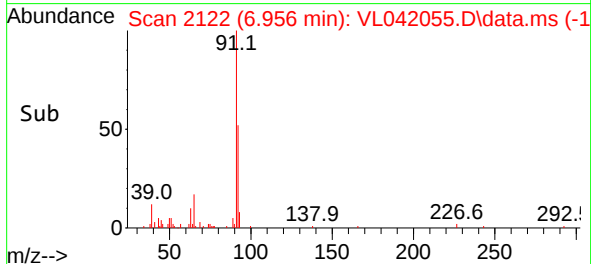
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



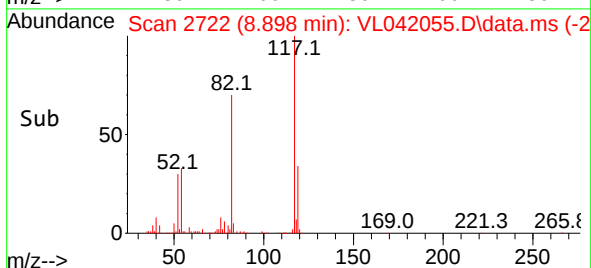
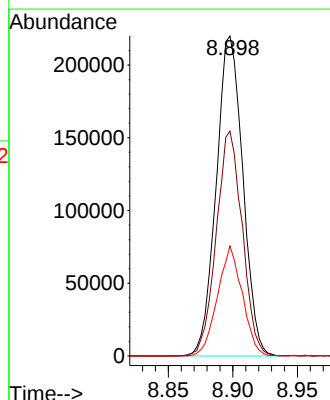
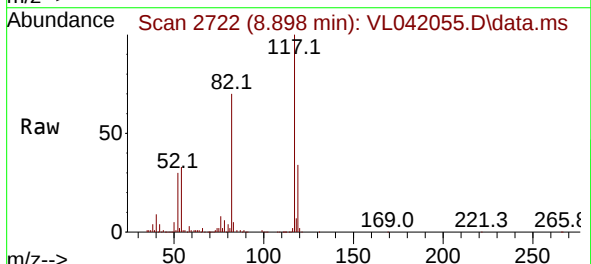
02/27/2025
Supervised By :Mahesh
Dadoda

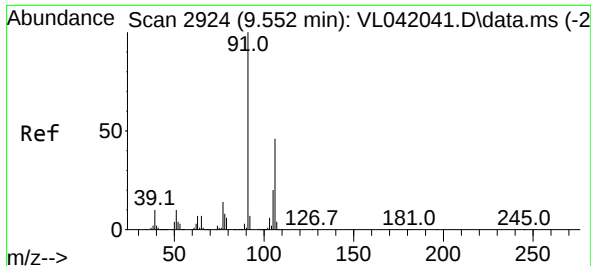
02/27/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. -0.003 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

Tgt Ion:117 Resp: 315276
Ion Ratio Lower Upper
117 100
82 68.6 55.0 82.6
119 32.0 25.9 38.9





#59

m/p-Xylene

Concen: 0.110 ppbv m

RT: 9.552 min Scan# 2924

Delta R.T. -0.000 min

Lab File: VL042055.D

Acq: 26 Feb 2025 11:40

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 5078

Ion Ratio Lower Upper

91 100

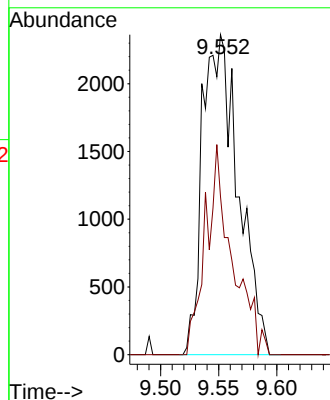
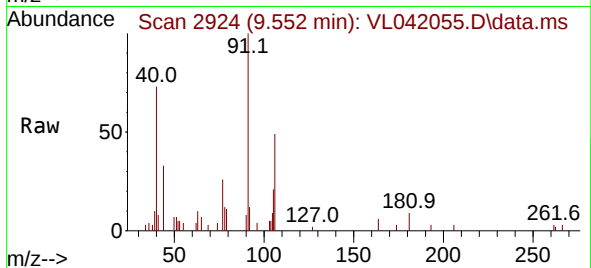
106 48.7 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin

Yesilyurt

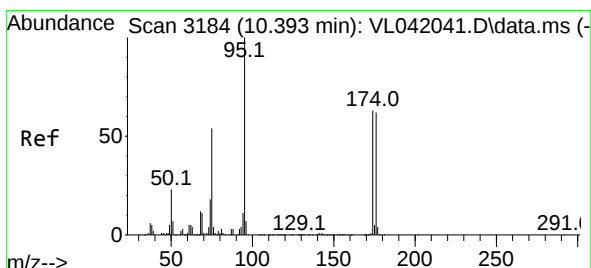
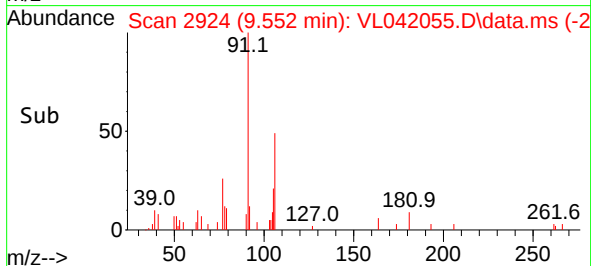


02/27/2025

Supervised By :Mahesh

Dadoda

02/27/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 10.287 ppbv

RT: 10.390 min Scan# 3183

Delta R.T. -0.003 min

Lab File: VL042055.D

Acq: 26 Feb 2025 11:40

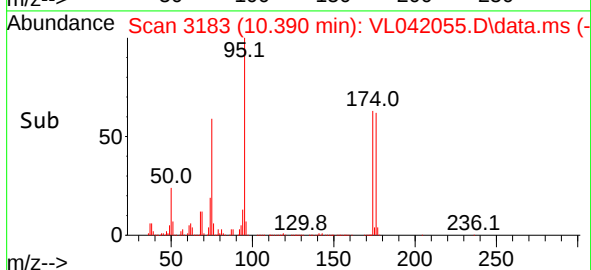
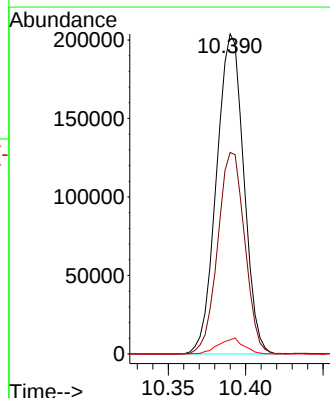
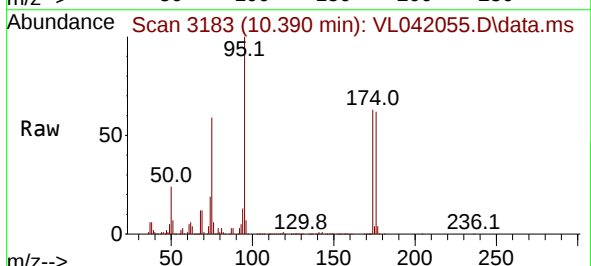
Tgt Ion: 95 Resp: 249506

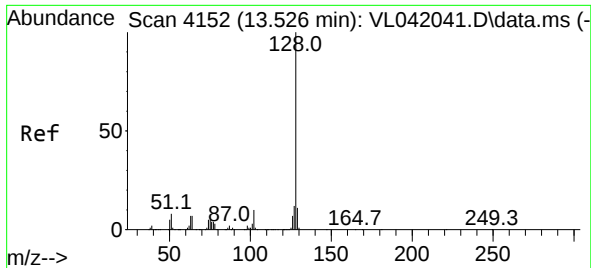
Ion Ratio Lower Upper

95 100

174 62.5 51.8 77.6

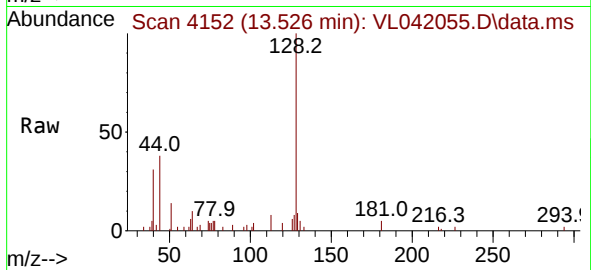
175 4.6 3.9 5.9





#79
Naphthalene
Concen: 0.102 ppbv
RT: 13.526 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042055.D
Acq: 26 Feb 2025 11:40

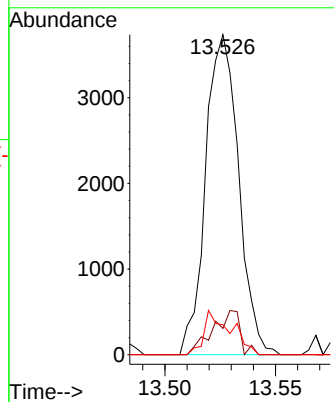
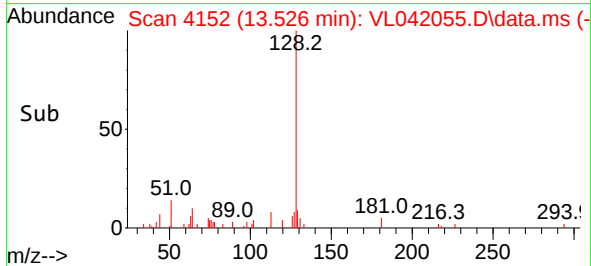
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:128 Resp: 3874
Ion Ratio Lower Upper
128 100
127 8.2 9.8 14.6
129 9.4 8.6 12.8

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



02/27/2025
Supervised By :Mahesh
Dadoda

02/27/2025



CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1419 SAS No.: Q1419 SDG No.: Q1419
 Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042041.D		RRF002 = VL042042.D		RRF001 = VL042043.D		
		RRF0.5 = VL042044.D		RRF0.1 = VL042045.D		RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.337	0.361	0.346	0.376	0.336	0.447	0.364	10.9
1,1-Dichloroethene	0.320	0.386	0.437	0.398			0.376	12.6
cis-1,2-Dichloroethene	1.237	1.450	1.401	1.421			1.353	7.3
1,1,1-Trichloroethane	1.771	1.944	1.916	1.883	1.875	1.921	1.866	4.1
Trichloroethene	0.378	0.447	0.447	0.433	0.462	0.447	0.427	8.1
Tetrachloroethene	0.327	0.385	0.383	0.380	0.374	0.322	0.358	7.9
1-Bromo-4-Fluorobenzene	0.764	0.765	0.777	0.768	0.760	0.773	0.769	0.9

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 285943 9.263 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

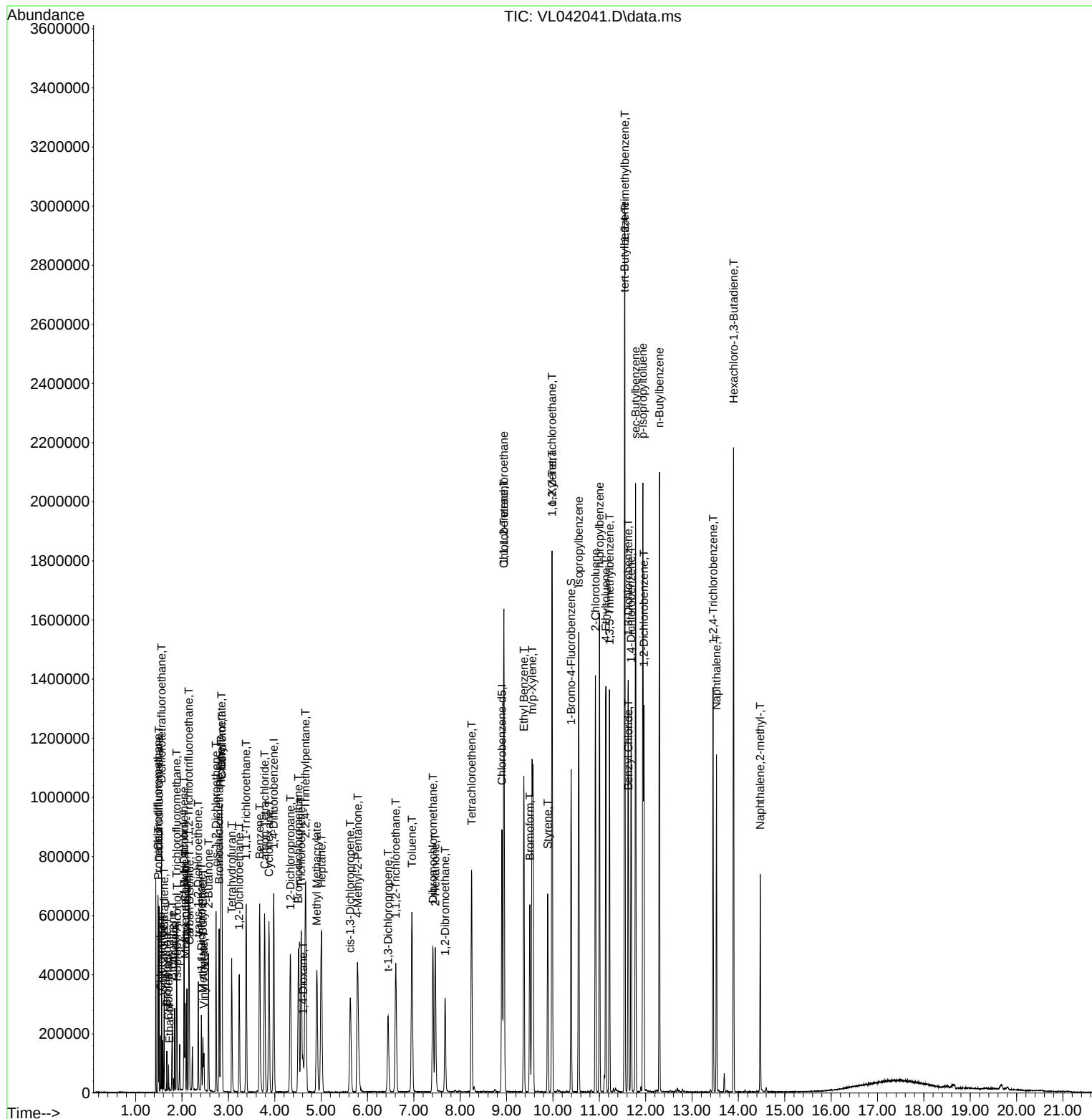
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDIC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC010

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:10:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Tue Feb 18 00:13:37 2025
 Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

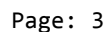
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations

Quant Time: Feb 25 10:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

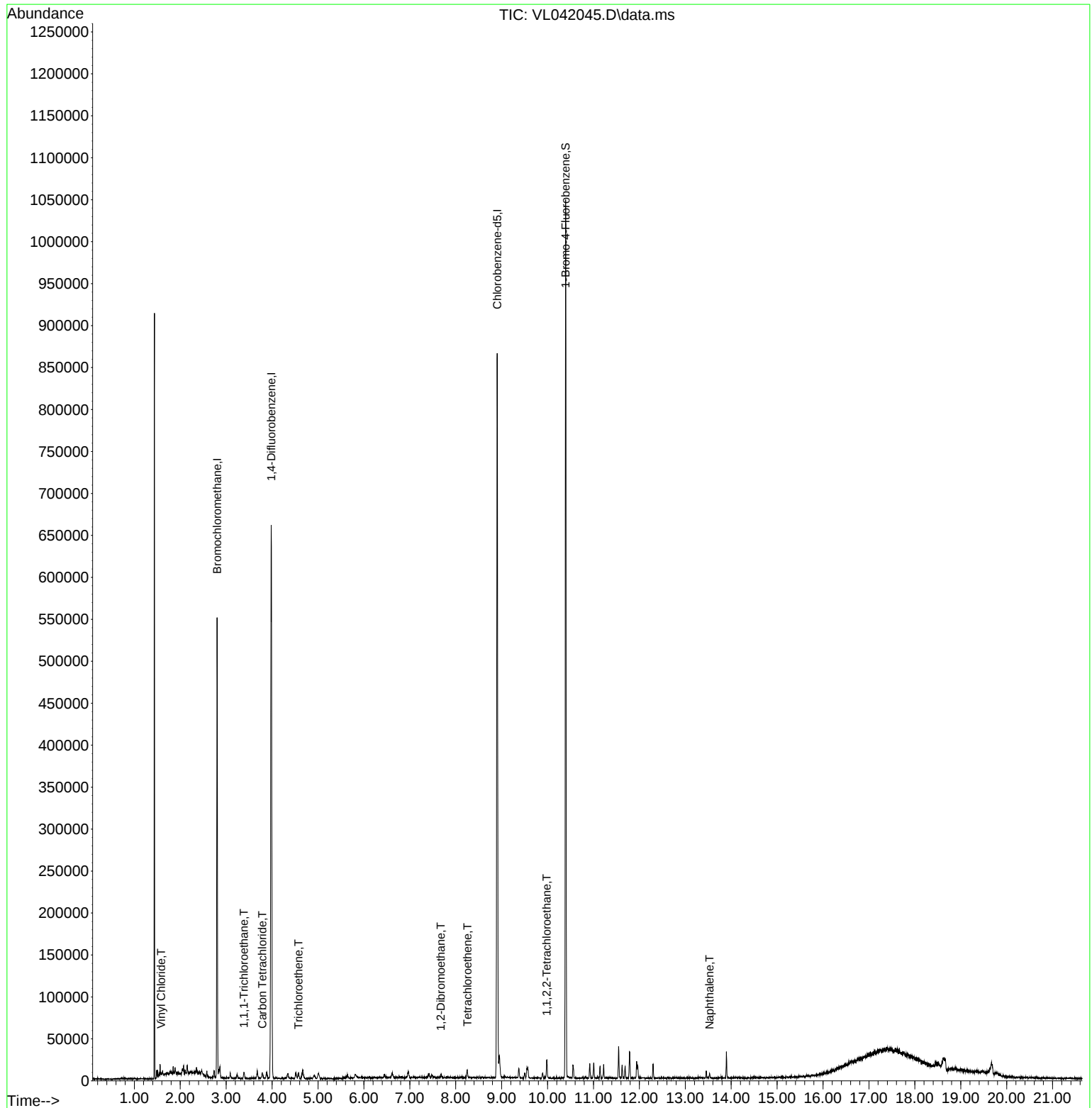
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

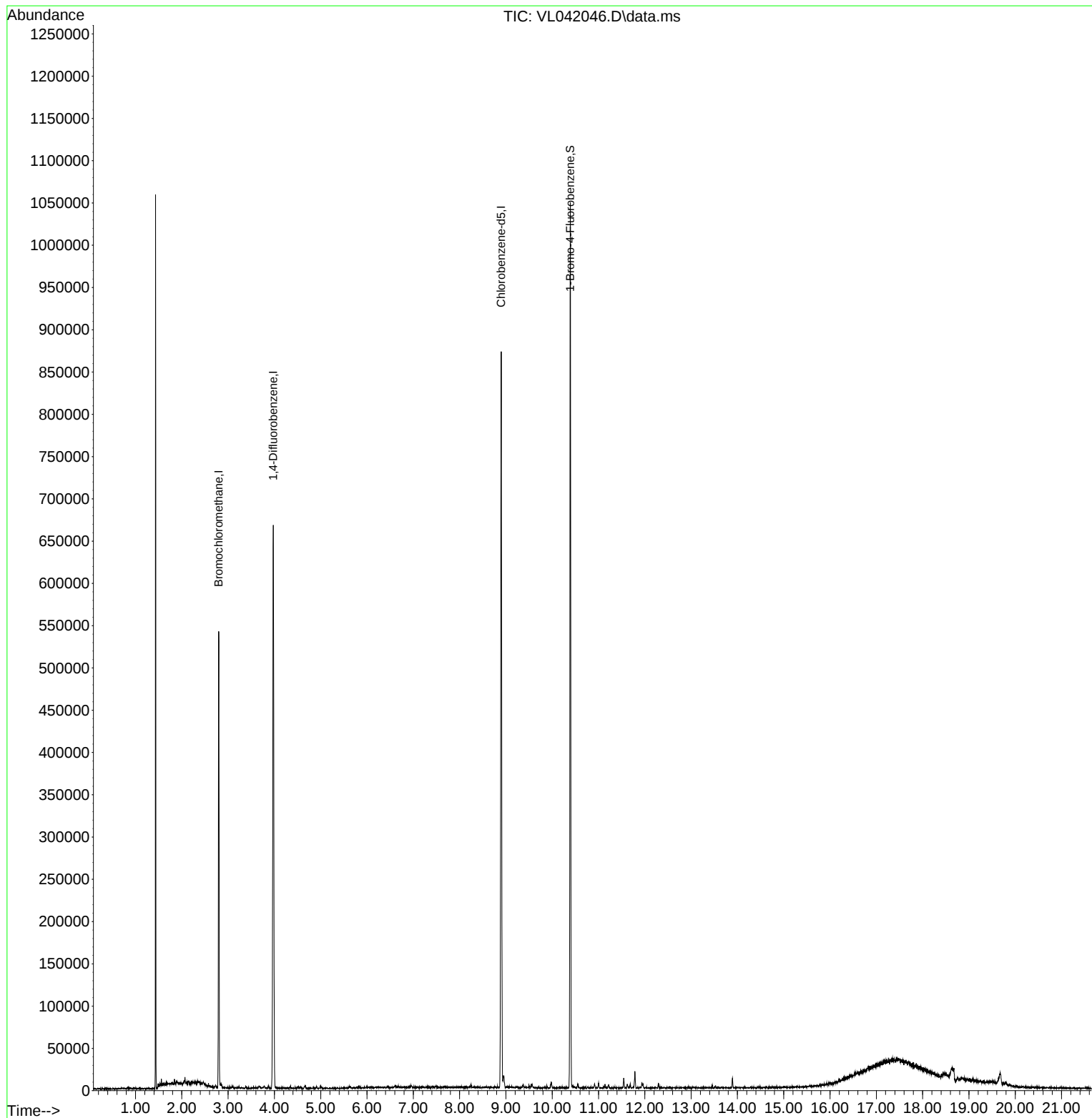
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	99	0.00
2 T	Dichlorodifluoromethane	10.000	9.606	3.9	104	0.00
3	Chlorodifluoromethane	10.000	9.512	4.9	104	0.00
4	Chloromethane	10.000	8.941	10.6	99	0.00
5 T	Vinyl Chloride	10.000	9.114	8.9	97	0.00
6 T	Bromomethane	10.000	9.221	7.8	98	0.00
7	Chloroethane	10.000	9.443	5.6	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.354	6.5	101	0.00
9 T	Propene	10.000	9.657	3.4	108	0.00
10 T	Heptane	10.000	9.188	8.1	100	0.00
11 T	Trichlorofluoromethane	10.000	9.476	5.2	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.715	12.9	102	0.00
13	Ethanol	10.000	4.404	56.0#	83	0.00
14 T	Bromoethene	10.000	9.338	6.6	103	0.00
15 T	Acetone	10.000	8.460	15.4	103	0.00
16 T	1,3-Butadiene	10.000	9.434	5.7	107	0.00
17	tert-Butyl alcohol	10.000	8.779	12.2	101	0.00
18 T	1,1-Dichloroethene	10.000	8.711	12.9	101	0.00
19 T	Isopropyl Alcohol	10.000	8.629	13.7	103	0.00
20 T	Methylene Chloride	10.000	7.919	20.8	100	0.00
21 T	Allyl Chloride	10.000	8.951	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.502	15.0	103	0.00
23 T	Vinyl Acetate	10.000	9.488	5.1	112	0.00
24 T	1,1-Dichloroethane	10.000	8.721	12.8	105	0.00
25 T	Ethyl Acetate	10.000	9.492	5.1	104	0.00
26 T	Hexane	10.000	9.203	8.0	101	0.00
27 T	Carbon Disulfide	10.000	8.978	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.365	16.3	112	0.00
29 T	Chloroform	10.000	9.202	8.0	101	0.00
30 T	Cyclohexane	10.000	9.161	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.285	7.1	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.396	6.0	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	0.00
34 T	2-Butanone	10.000	9.727	2.7	105	0.00
35 T	Carbon Tetrachloride	10.000	9.867	1.3	100	0.00
36 T	Benzene	10.000	9.395	6.1	98	0.00
37 T	1,2-Dichloroethane	10.000	9.491	5.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	98	0.00
39 T	1,2-Dichloropropane	10.000	9.414	5.9	101	0.00
40 T	1,4-Dioxane	10.000	8.817	11.8	94	0.00
41 T	Tetrahydrofuran	10.000	9.696	3.0	103	0.00
42 T	Bromodichloromethane	10.000	9.606	3.9	98	0.00
43	Methyl Methacrylate	10.000	9.685	3.1	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.480	5.2	101	0.00
45 T	t-1,3-Dichloropropene	10.000	9.671	3.3	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.680	3.2	95	0.00
47 T	1,1,2-Trichloroethane	10.000	9.039	9.6	97	0.00
48 T	Dibromochloromethane	10.000	9.407	5.9	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.432	5.7	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.526	-5.3	101	0.00
51 T	2-Hexanone	10.000	12.576	-25.8	101	0.00
52 T	Tetrachloroethene	10.000	9.202	8.0	97	0.00
53 T	Toluene	10.000	9.430	5.7	97	0.00
54 T	1,2-Dibromoethane	10.000	9.307	6.9	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.234	7.7	97	0.00
57 T	Chlorobenzene	10.000	9.216	7.8	98	0.00
58 T	Ethyl Benzene	10.000	9.513	4.9	97	0.00
59 T	m/p-Xylene	20.000	19.041	4.8	98	0.02
60 T	o-Xylene	10.000	9.334	6.7	98	0.00
61 T	Styrene	10.000	9.959	0.4	98	0.00
62	Isopropylbenzene	10.000	9.437	5.6	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.204	8.0	99	0.00
64	n-propylbenzene	10.000	9.506	4.9	98	0.00
65	tert-Butylbenzene	10.000	8.988	10.1	97	0.00
66 T	Benzyl Chloride	10.000	9.808	1.9	92	0.00
67	sec-Butylbenzene	10.000	9.090	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.188	-1.9	96	0.00
69	p-Isopropyltoluene	10.000	9.418	5.8	100	0.00
70	n-Butylbenzene	10.000	9.560	4.4	101	0.00
71	2-Chlorotoluene	10.000	9.399	6.0	99	0.00
72 T	4-Ethyltoluene	10.000	9.557	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.248	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.891	11.1	99	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.176	8.2	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.081	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.543	14.6	96	0.00
79 T	Naphthalene	10.000	12.160	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	10.000	17.152	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.965	0.4	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1419 SAS No.: Q1419 SDG No.: Q1419

Instrument ID: MSVOA_L Calibration Date/Time: 02/26/2025 08:38

Lab File ID: VL042050.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

GC Column: RTX-1 ID: 0.32 (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.364	0.342		-6.04	30
1,1-Dichloroethene	0.376	0.324		-13.83	30
cis-1,2-Dichloroethene	1.353	1.254		-7.32	30
1,1,1-Trichloroethane	1.866	1.748		-6.32	30
Trichloroethene	0.427	0.385		-9.84	30
Tetrachloroethene	0.358	0.339		-5.31	30
1-Bromo-4-Fluorobenzene	0.769	0.787		2.34	30

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	157492	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	387144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	336136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 264623 10.233 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	159125	9.716	ppbv	96
3) Chlorodifluoromethane	1.479	51	217238	9.491	ppbv	99
4) Chloromethane	1.538	50	54275	8.962	ppbv	97
5) Vinyl Chloride	1.583	62	53871	9.404	ppbv	99
6) Bromomethane	1.670	94	25674	9.412	ppbv	100
7) Chloroethane	1.709	64	22033	9.466	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	129383	9.610	ppbv	99
9) Propene	1.486	41	87439	9.377	ppbv	97
10) Heptane	5.001	43	268030	9.231	ppbv	99
11) Trichlorofluoromethane	1.884	101	155832	9.496	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	114341	8.735	ppbv	99
13) Ethanol	1.725	45	2918	4.929	ppbv	98
14) Bromoethene	1.787	108	44414	9.608	ppbv	95
15) Acetone	1.842	43	116372	8.367	ppbv	98
16) 1,3-Butadiene	1.612	39	59133	9.136	ppbv	99
17) tert-Butyl alcohol	2.046	59	153167	8.802	ppbv	96
18) 1,1-Dichloroethene	2.039	96	51101	8.640	ppbv	93
19) Isopropyl Alcohol	1.890	45	69014	8.638	ppbv	98
20) Methylene Chloride	2.068	84	42907	8.156	ppbv	98
21) Allyl Chloride	2.101	41	86423	8.600	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61551	8.927	ppbv	98
23) Vinyl Acetate	2.470	43	84867	8.678	ppbv	98
24) 1,1-Dichloroethane	2.418	63	118286	9.220	ppbv	99
25) Ethyl Acetate	2.848	43	521677	9.371	ppbv	99
26) Hexane	2.835	57	207168	9.205	ppbv	98
27) Carbon Disulfide	2.156	76	138544	9.081	ppbv	95
28) Methyl tert-Butyl Ether	2.447	73	88652	7.912	ppbv	97
29) Chloroform	2.858	83	273992	9.045	ppbv	98
30) Cyclohexane	3.871	84	167364	9.162	ppbv	94
31) cis-1,2-Dichloroethene	2.732	61	197466	9.268	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	275336	9.370	ppbv	97
34) 2-Butanone	2.567	43	298594	9.900	ppbv	97
35) Carbon Tetrachloride	3.777	117	272097	10.192	ppbv	97
36) Benzene	3.670	78	394494	9.734	ppbv	97
37) 1,2-Dichloroethane	3.230	62	224585	9.995	ppbv	99
38) Trichloroethene	4.567	130	149021	9.005	ppbv	97
39) 1,2-Dichloropropane	4.331	63	151626	9.857	ppbv	95
40) 1,4-Dioxane	4.606	88	68639	9.775	ppbv #	98
41) Tetrahydrofuran	3.065	42	178871	10.037	ppbv	97
42) Bromodichloromethane	4.509	83	306517	10.124	ppbv	98
43) Methyl Methacrylate	4.900	69	156460	9.885	ppbv	96
44) 2,2,4-Trimethylpentane	4.658	57	703370	9.834	ppbv	99
45) t-1,3-Dichloropropene	6.438	75	155197	9.870	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:24:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	205249	10.087	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	148058	9.481	ppbv	96
48) Dibromochloromethane	7.409	129	240304	9.825	ppbv	100
49) Bromoform	9.496	173	205649	9.682	ppbv	98
50) 4-Methyl-2-Pentanone	5.778	43	423271	10.851	ppbv	97
51) 2-Hexanone	7.454	43	345562	12.872	ppbv #	100
52) Tetrachloroethene	8.237	164	131164	9.454	ppbv	97
53) Toluene	6.952	91	439634	9.706	ppbv	98
54) 1,2-Dibromoethane	7.671	107	200726	9.507	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.940	131	178871	9.415	ppbv	100
57) Chlorobenzene	8.937	112	326805	9.377	ppbv	99
58) Ethyl Benzene	9.367	91	598242	9.664	ppbv	99
59) m/p-Xylene	9.564	91	957021m	19.427	ppbv	
60) o-Xylene	9.979	91	475848	9.608	ppbv	100
61) Styrene	9.885	104	231133	9.927	ppbv	99
62) Isopropylbenzene	10.552	105	718826	9.692	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	312195	9.572	ppbv	98
64) n-propylbenzene	11.001	120	185068	9.513	ppbv	95
65) tert-Butylbenzene	11.542	119	618290	9.160	ppbv	98
66) Benzyl Chloride	11.629	91	49850	9.678	ppbv	98
67) sec-Butylbenzene	11.778	105	890927	9.229	ppbv	100
69) p-Isopropyltoluene	11.937	119	724678	9.435	ppbv	100
70) n-Butylbenzene	12.293	91	756366	9.648	ppbv	99
71) 2-Chlorotoluene	10.914	91	545538	9.541	ppbv	99
72) 4-Ethyltoluene	11.137	105	574661	9.504	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	484912	9.245	ppbv	98
74) 1,2,4-Trimethylbenzene	11.548	105	527932	8.938	ppbv	96
75) 1,3-Dichlorobenzene	11.620	146	309408	9.102	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	309423	9.168	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	302720	9.177	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	229379	8.937	ppbv	100
79) Naphthalene	13.523	128	493813	12.193	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	190978	17.232	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	226561	10.038	ppbv	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	1.040	1.010	2.9	105	0.00
3	Chlorodifluoromethane	1.453	1.379	5.1	103	0.00
4	Chloromethane	0.385	0.345	10.4	98	0.00
5 T	Vinyl Chloride	0.364	0.342	6.0	99	0.00
6 T	Bromomethane	0.173	0.163	5.8	99	0.00
7	Chloroethane	0.148	0.140	5.4	101	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.822	3.9	103	0.00
9 T	Propene	0.592	0.555	6.2	104	0.00
10 T	Heptane	1.844	1.702	7.7	100	0.00
11 T	Trichlorofluoromethane	1.042	0.989	5.1	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.726	12.6	102	0.00
13	Ethanol	0.038	0.019#	50.0#	92	0.00
14 T	Bromoethene	0.293	0.282	3.8	105	0.00
15 T	Acetone	0.883	0.739	16.3	101	0.00
16 T	1,3-Butadiene	0.411	0.375	8.8	102	0.00
17	tert-Butyl alcohol	1.105	0.973	11.9	100	0.00
18 T	1,1-Dichloroethene	0.376	0.324	13.8	99	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	102	0.00
20 T	Methylene Chloride	0.334	0.272	18.6	102	0.00
21 T	Allyl Chloride	0.638	0.549	13.9	100	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.391	10.7	107	0.00
23 T	Vinyl Acetate	0.621	0.539	13.2	101	0.00
24 T	1,1-Dichloroethane	0.815	0.751	7.9	110	0.00
25 T	Ethyl Acetate	3.535	3.312	6.3	102	0.00
26 T	Hexane	1.429	1.315	8.0	100	0.00
27 T	Carbon Disulfide	0.969	0.880	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.563	20.8	105	0.00
29 T	Chloroform	1.923	1.740	9.5	99	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.254	7.3	99	0.00
32 T	1,1,1-Trichloroethane	1.866	1.748	6.3	96	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.779	0.771	1.0	102	0.00
35 T	Carbon Tetrachloride	0.690	0.703	-1.9	98	0.00
36 T	Benzene	1.047	1.019	2.7	96	0.00
37 T	1,2-Dichloroethane	0.580	0.580	0.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	93	0.00
39 T	1,2-Dichloropropane	0.397	0.392	1.3	100	0.00
40 T	1,4-Dioxane	0.181	0.177	2.2	99	0.00
41 T	Tetrahydrofuran	0.460	0.462	-0.4	101	0.00
42 T	Bromodichloromethane	0.782	0.792	-1.3	98	0.00
43	Methyl Methacrylate	0.409	0.404	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.817	1.7	100	0.00
45 T	t-1,3-Dichloropropene	0.406	0.401	1.2	93	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.530	-0.8	94	0.00
47 T	1,1,2-Trichloroethane	0.403	0.382	5.2	97	0.00
48 T	Dibromochloromethane	0.632	0.621	1.7	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.549	0.531	3.3	93	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.093	-8.4	99	0.00
51 T	2-Hexanone	0.693	0.893	-28.9	98	0.00
52 T	Tetrachloroethene	0.358	0.339	5.3	95	0.00
53 T	Toluene	1.170	1.136	2.9	96	0.00
54 T	1,2-Dibromoethane	0.545	0.518	5.0	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.532	5.8	95	0.00
57 T	Chlorobenzene	1.037	0.972	6.3	96	0.00
58 T	Ethyl Benzene	1.842	1.780	3.4	94	0.00
59 T	m/p-Xylene	1.466	1.424	2.9	96	0.01
60 T	o-Xylene	1.473	1.416	3.9	97	0.00
61 T	Styrene	0.693	0.688	0.7	94	0.00
62	Isopropylbenzene	2.207	2.138	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.929	4.2	98	0.00
64	n-propylbenzene	0.579	0.551	4.8	94	0.00
65	tert-Butylbenzene	2.008	1.839	8.4	95	0.00
66 T	Benzyl Chloride	0.153	0.148	3.3	87	0.00
67	sec-Butylbenzene	2.872	2.650	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.787	-2.3	93	0.00
69	p-Isopropyltoluene	2.285	2.156	5.6	96	0.00
70	n-Butylbenzene	2.332	2.250	3.5	98	0.00
71	2-Chlorotoluene	1.701	1.623	4.6	96	0.00
72 T	4-Ethyltoluene	1.799	1.710	4.9	95	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	94	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.571	10.6	96	0.00
75 T	1,3-Dichlorobenzene	1.011	0.920	9.0	95	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	96	0.00
77 T	1,2-Dichlorobenzene	0.981	0.901	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.682	10.7	96	0.00
79 T	Naphthalene	1.205	1.469	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	0.330	0.568	-72.1#	91	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.674	-0.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	98	0.00
2 T	Dichlorodifluoromethane	10.000	9.716	2.8	105	0.00
3	Chlorodifluoromethane	10.000	9.491	5.1	103	0.00
4	Chloromethane	10.000	8.962	10.4	98	0.00
5 T	Vinyl Chloride	10.000	9.404	6.0	99	0.00
6 T	Bromomethane	10.000	9.412	5.9	99	0.00
7	Chloroethane	10.000	9.466	5.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.610	3.9	103	0.00
9 T	Propene	10.000	9.377	6.2	104	0.00
10 T	Heptane	10.000	9.231	7.7	100	0.00
11 T	Trichlorofluoromethane	10.000	9.496	5.0	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.735	12.7	102	0.00
13	Ethanol	10.000	4.929	50.7#	92	0.00
14 T	Bromoethene	10.000	9.608	3.9	105	0.00
15 T	Acetone	10.000	8.367	16.3	101	0.00
16 T	1,3-Butadiene	10.000	9.136	8.6	102	0.00
17	tert-Butyl alcohol	10.000	8.802	12.0	100	0.00
18 T	1,1-Dichloroethene	10.000	8.640	13.6	99	0.00
19 T	Isopropyl Alcohol	10.000	8.638	13.6	102	0.00
20 T	Methylene Chloride	10.000	8.156	18.4	102	0.00
21 T	Allyl Chloride	10.000	8.600	14.0	100	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.927	10.7	107	0.00
23 T	Vinyl Acetate	10.000	8.678	13.2	101	0.00
24 T	1,1-Dichloroethane	10.000	9.220	7.8	110	0.00
25 T	Ethyl Acetate	10.000	9.371	6.3	102	0.00
26 T	Hexane	10.000	9.205	7.9	100	0.00
27 T	Carbon Disulfide	10.000	9.081	9.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	7.912	20.9	105	0.00
29 T	Chloroform	10.000	9.045	9.6	99	0.00
30 T	Cyclohexane	10.000	9.162	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.268	7.3	99	0.00
32 T	1,1,1-Trichloroethane	10.000	9.370	6.3	96	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	9.900	1.0	102	0.00
35 T	Carbon Tetrachloride	10.000	10.192	-1.9	98	0.00
36 T	Benzene	10.000	9.734	2.7	96	0.00
37 T	1,2-Dichloroethane	10.000	9.995	0.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	93	0.00
39 T	1,2-Dichloropropane	10.000	9.857	1.4	100	0.00
40 T	1,4-Dioxane	10.000	9.775	2.2	99	0.00
41 T	Tetrahydrofuran	10.000	10.037	-0.4	101	0.00
42 T	Bromodichloromethane	10.000	10.124	-1.2	98	0.00
43	Methyl Methacrylate	10.000	9.885	1.2	95	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.834	1.7	100	0.00
45 T	t-1,3-Dichloropropene	10.000	9.870	1.3	93	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.087	-0.9	94	0.00
47 T	1,1,2-Trichloroethane	10.000	9.481	5.2	97	0.00
48 T	Dibromochloromethane	10.000	9.825	1.8	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042050.D
 Acq On : 26 Feb 2025 08:38
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 27 00:24:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min
 Max. RRF Dev : 30% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)

49 T	Bromoform	10.000	9.682	3.2	93	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.851	-8.5	99	0.00
51 T	2-Hexanone	10.000	12.872	-28.7	98	0.00
52 T	Tetrachloroethene	10.000	9.454	5.5	95	0.00
53 T	Toluene	10.000	9.706	2.9	96	0.00
54 T	1,2-Dibromoethane	10.000	9.507	4.9	95	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.415	5.9	95	0.00
57 T	Chlorobenzene	10.000	9.377	6.2	96	0.00
58 T	Ethyl Benzene	10.000	9.664	3.4	94	0.00
59 T	m/p-Xylene	20.000	19.427	2.9	96	0.01
60 T	o-Xylene	10.000	9.608	3.9	97	0.00
61 T	Styrene	10.000	9.927	0.7	94	0.00
62	Isopropylbenzene	10.000	9.692	3.1	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.572	4.3	98	0.00
64	n-propylbenzene	10.000	9.513	4.9	94	0.00
65	tert-Butylbenzene	10.000	9.160	8.4	95	0.00
66 T	Benzyl Chloride	10.000	9.678	3.2	87	0.00
67	sec-Butylbenzene	10.000	9.229	7.7	96	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.233	-2.3	93	0.00
69	p-Isopropyltoluene	10.000	9.435	5.6	96	0.00
70	n-Butylbenzene	10.000	9.648	3.5	98	0.00
71	2-Chlorotoluene	10.000	9.541	4.6	96	0.00
72 T	4-Ethyltoluene	10.000	9.504	5.0	95	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.245	7.6	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.938	10.6	96	0.00
75 T	1,3-Dichlorobenzene	10.000	9.102	9.0	95	0.00
76 T	1,4-Dichlorobenzene	10.000	9.168	8.3	96	0.00
77 T	1,2-Dichlorobenzene	10.000	9.177	8.2	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.937	10.6	96	0.00
79 T	Naphthalene	10.000	12.193	-21.9	96	0.00
80 T	Naphthalene,2-methyl-	10.000	17.232	-72.3#	91	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.038	-0.4	94	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



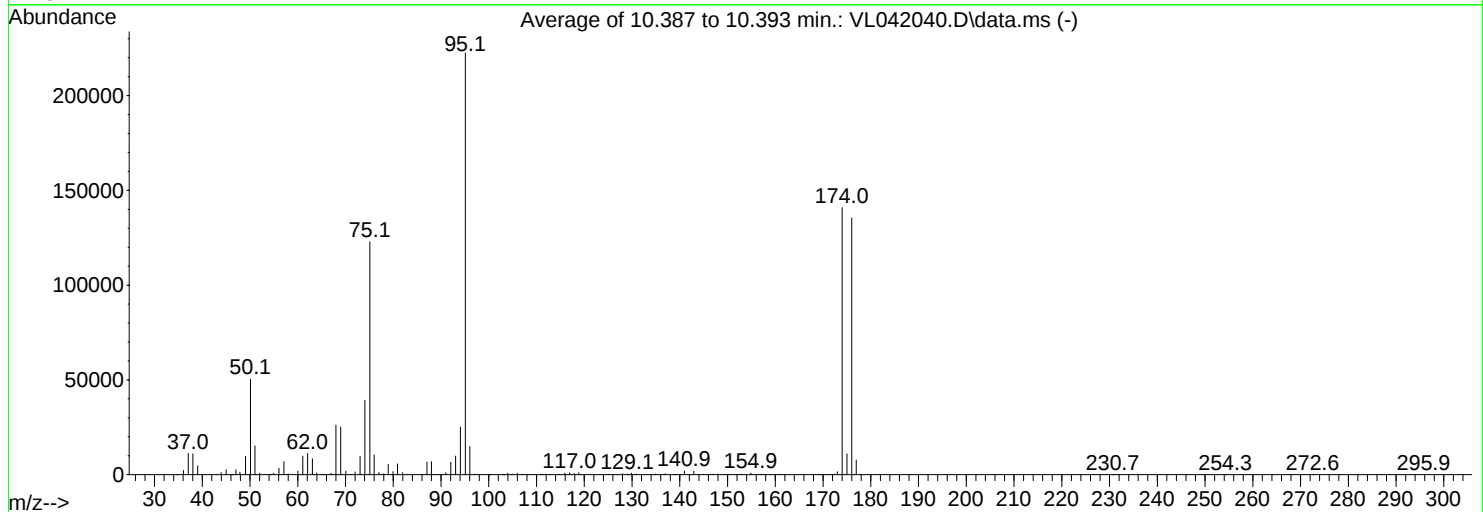
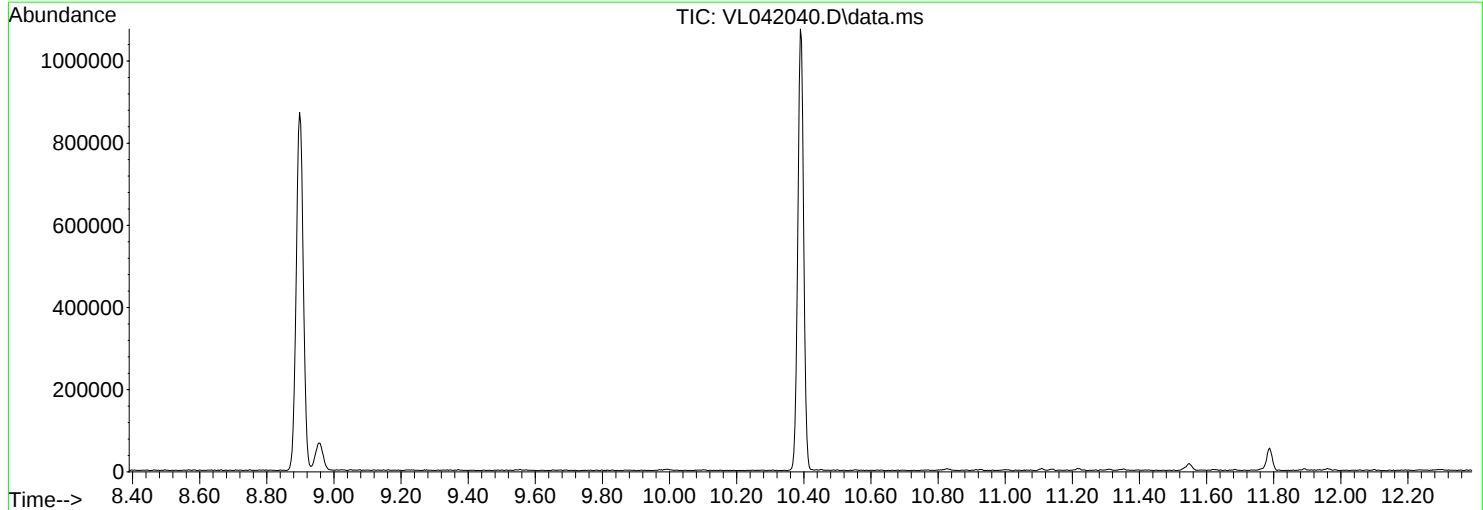
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042040.D
Acq On : 25 Feb 2025 07:56
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
34.70	28	47.05	2526	58.05	414	68.00	2618
36.05	2223	47.90	1374	60.00	1900	69.00	2505
37.05	11140	49.05	9623	61.05	9827	70.05	185
38.05	10945	50.10	50320	62.05	11140	71.00	6
39.05	4647	51.05	15242	63.05	8365	72.00	1450
41.85	112	52.00	740	63.95	890	73.05	9731
43.00	126	54.30	17	64.95	122	74.05	39184
43.95	1131	54.95	752	65.40	22	75.10	122859
45.00	2511	56.05	3327	66.10	82	76.00	10406
45.90	77	57.10	6812	66.70	141	77.00	1084
46.20	45	57.90	131	67.00	689	77.90	437

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.10	265	91.00	978	103.95	765	114.85	144
78.95	5465	92.05	6469	104.70	49	115.95	842
79.95	1631	93.05	9774	105.00	247	116.95	1016
80.90	5642	94.05	25088	105.95	752	117.90	687
81.95	1083	95.10	222571	106.95	295	118.85	1016
82.95	188	96.05	14875	109.80	139	123.80	72
85.80	135	97.00	284	110.90	160	124.00	81
86.20	121	99.90	37	111.10	25	125.10	63
87.05	6697	100.10	27	111.95	220	126.90	143
88.00	6841	102.90	35	112.85	148	127.95	520
88.80	63	103.20	35	114.50	51	129.05	303

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.90	788	140.95	1984	150.00	105	167.80	25
130.70	187	141.90	37	152.90	126	169.10	103
130.95	248	142.05	44	153.85	131	169.40	46
134.60	83	142.95	1834	154.90	850	169.95	64
134.95	371	143.65	110	156.00	119	170.40	64
135.90	48	144.95	99	156.85	134	170.60	88
136.95	394	145.75	130	157.10	226	171.25	175
138.90	30	146.00	95	157.70	18	171.90	106
139.50	84	146.85	213	158.00	51	172.40	228
139.90	68	147.90	442	158.90	147	173.00	1534
140.10	99	149.70	178	160.90	256	174.00	140957

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

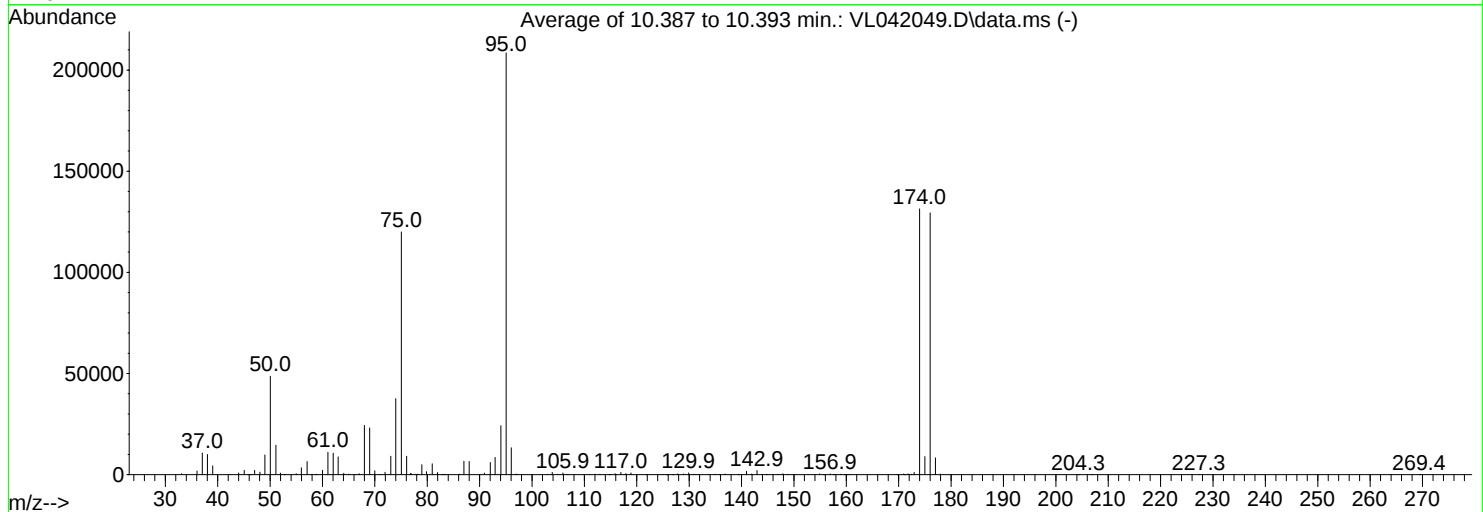
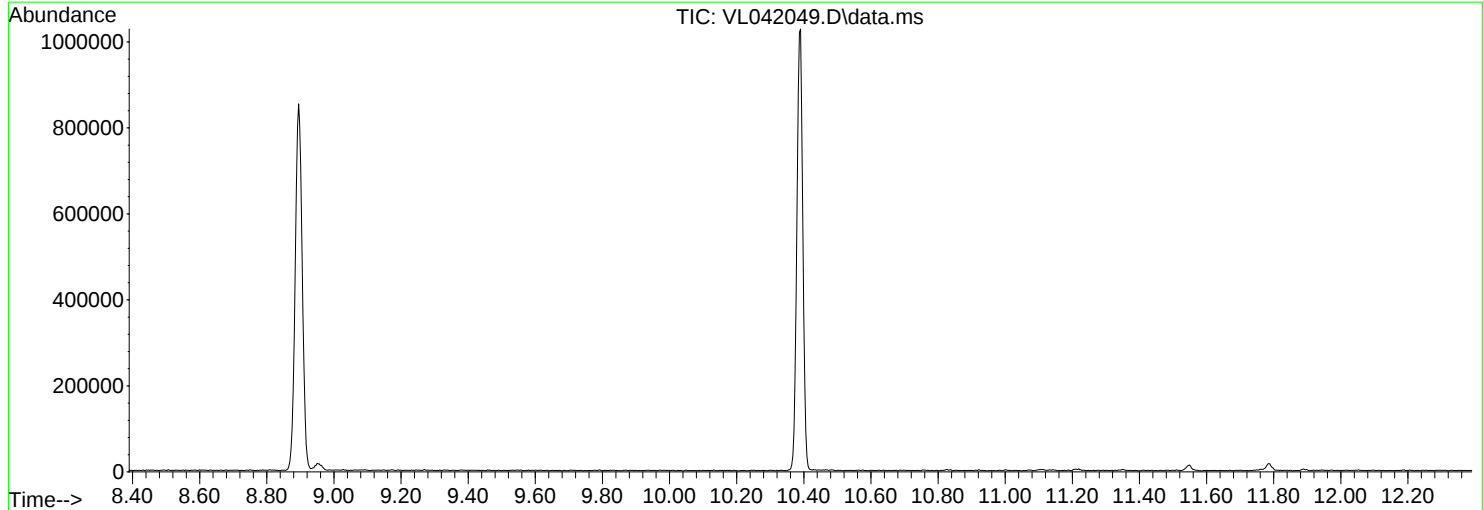
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	11014						
176.00	135437						
176.95	7676						
177.90	161						
180.95	55						
230.70	27						
231.90	20						
254.30	36						
272.60	20						
295.85	67						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042049.D
Acq On : 26 Feb 2025 07:46
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.3	48688	PASS
75	95	30	66	57.6	120021	PASS
95	95	100	100	100.0	208533	PASS
96	95	5	9	6.4	13271	PASS
173	174	0.00	2	0.8	1077	PASS
174	95	50	120	63.0	131429	PASS
175	174	4	9	6.8	8951	PASS
176	174	93	101	98.5	129411	PASS
177	176	5	9	6.4	8302	PASS

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	444	46.30	33	58.00	267	68.00	2439
34.10	89	47.05	2153	58.70	32	69.00	2312
36.05	1844	48.05	1303	60.00	2109	70.00	188
37.05	10667	49.00	9754	61.05	11094	70.90	4
38.05	10014	50.05	48688	62.05	10570	71.95	1166
39.05	4341	51.10	14536	63.00	8757	73.05	9099
39.95	189	51.95	802	64.05	705	74.00	37563
42.35	56	52.70	38	65.00	222	75.05	120021
44.00	882	55.00	489	66.20	139	76.05	9120
45.05	2180	55.95	3385	66.80	237	76.80	665
45.90	90	57.05	6526	67.05	420	77.00	419

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.80	203	88.00	6528	103.85	1108	116.10	59
78.10	234	89.90	62	104.85	242	116.95	1104
78.95	4879	90.90	798	105.90	845	117.90	569
79.85	1525	92.05	6030	106.70	150	118.90	897
80.95	5390	92.95	8533	106.90	52	121.80	44
81.95	1037	94.05	24184	110.90	178	123.90	33
82.80	33	95.05	208533	112.00	270	125.05	99
82.95	48	96.05	13271	112.95	245	125.70	47
83.30	28	96.90	139	114.70	43	125.90	24
86.10	258	97.10	324	115.00	85	126.90	27
87.00	6686	103.00	143	115.85	504	127.80	366

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.00	203	140.00	207	150.15	121	169.70	19
128.95	297	140.95	1699	152.70	102	170.00	109
129.90	864	141.95	314	153.85	170	170.90	280
130.90	100	142.95	2085	154.90	374	171.10	47
131.05	133	144.75	159	155.70	26	171.80	411
131.75	78	145.00	70	156.90	423	172.40	275
133.70	60	145.95	199	157.55	37	172.95	1077
134.95	225	146.95	149	158.95	230	174.00	131429
135.80	37	147.90	442	159.70	18	175.00	8951
136.85	340	148.80	149	160.20	18	176.00	129411
139.40	37	149.90	73	160.85	143	177.00	8302

Average of 10.387 to 10.393 min.: VL042049.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.95	321						
204.30	18						
206.90	17						
227.35	73						
269.40	18						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	48-07 Bell Blvd, Bayside NY	Date Received:	
Client Sample ID:	VL0226ABL01	SDG No.:	Q1419
Lab Sample ID:	VL0226ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042051.D	1		02/26/25 09:20	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.797			
540-36-3	1,4-Difluorobenzene	387000		3.975			
3114-55-4	Chlorobenzene-d5	332000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042051.D
 Acq On : 26 Feb 2025 09:20
 Operator : SY/MD
 Sample : VL0226ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	157395	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	386755	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	331916	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	257988	10.103	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%

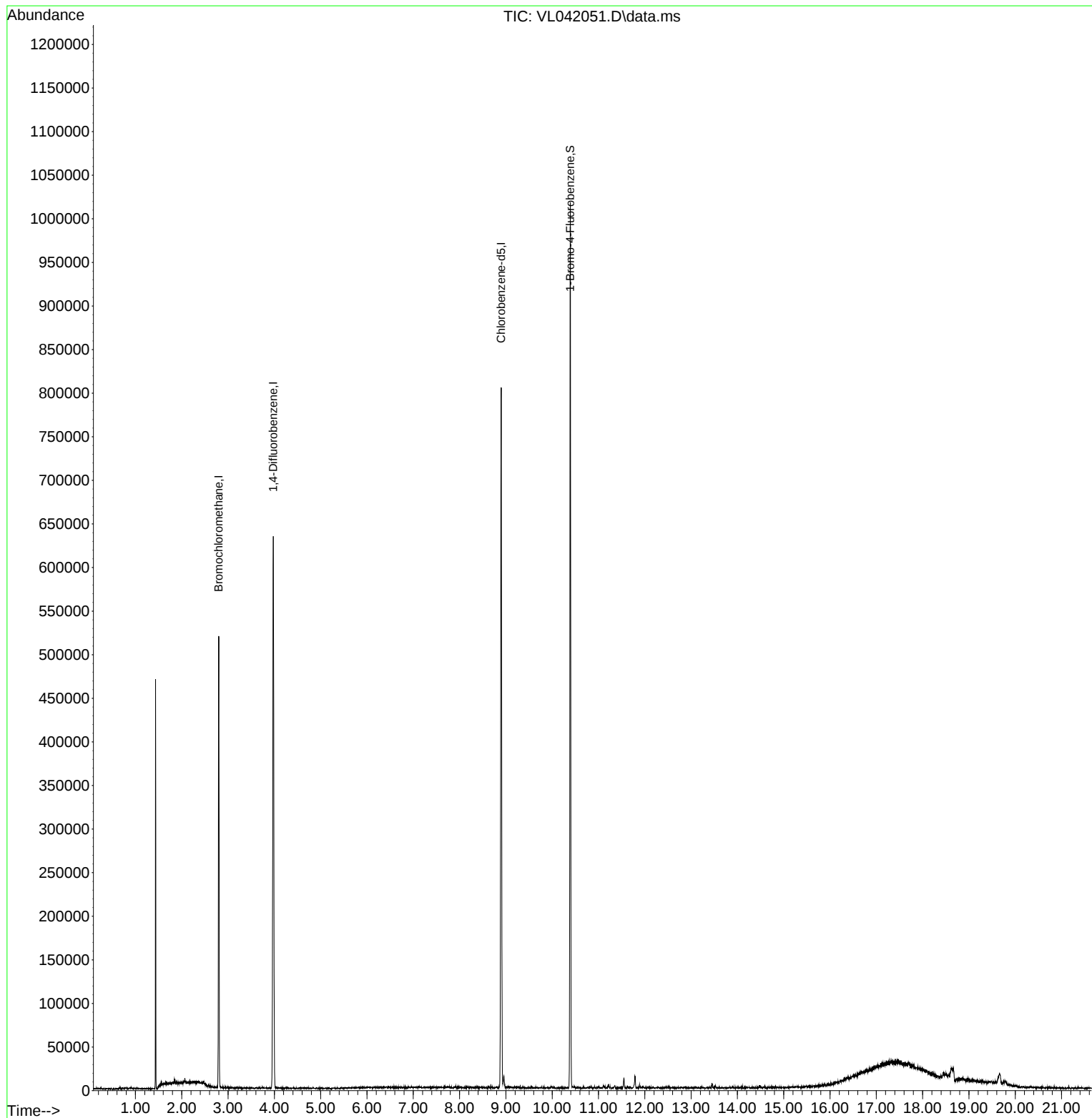
Target Compounds	Qvalue

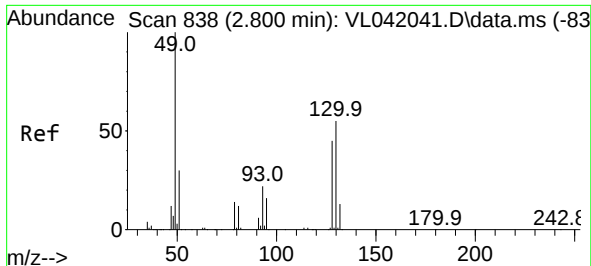
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
Data File : VL042051.D
Acq On : 26 Feb 2025 09:20
Operator : SY/MD
Sample : VL0226ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Quant Time: Feb 27 00:25:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

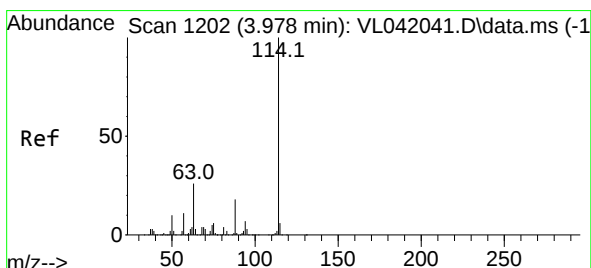
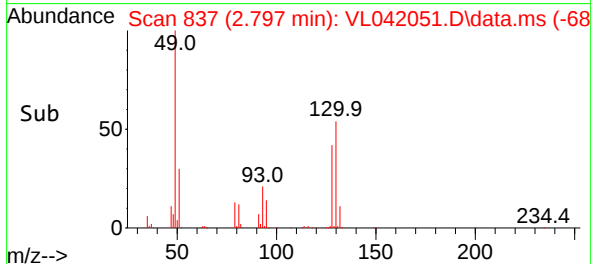
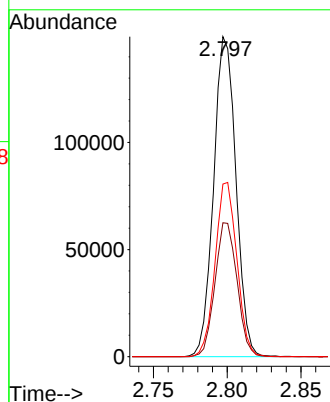
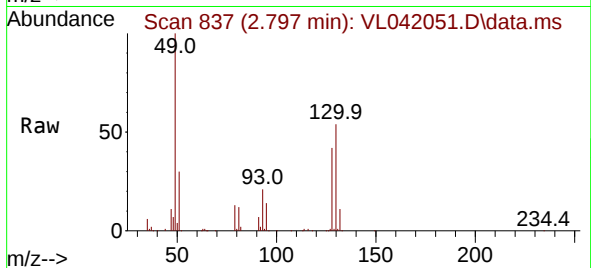




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

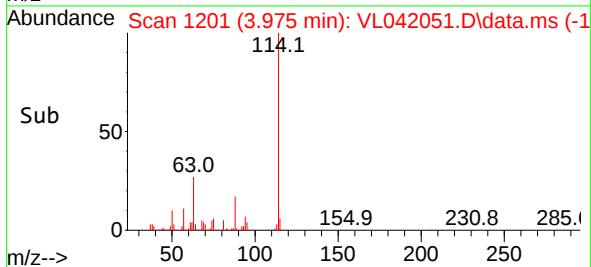
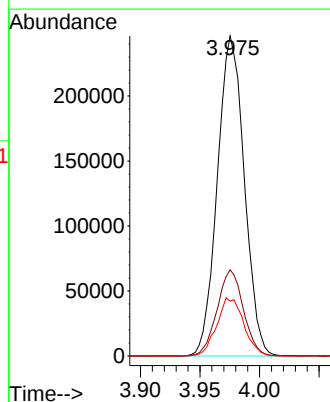
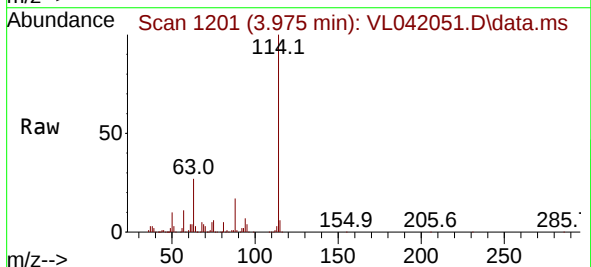
Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

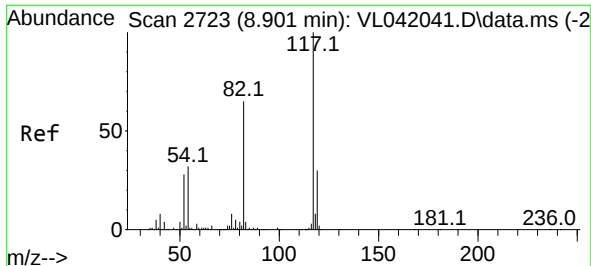
Tgt Ion: 49 Resp: 157395
Ion Ratio Lower Upper
49 100
128 41.4 21.6 64.8
130 53.1 27.8 83.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

Tgt Ion: 114 Resp: 386755
Ion Ratio Lower Upper
114 100
63 26.2 20.1 30.1
88 18.2 14.3 21.5

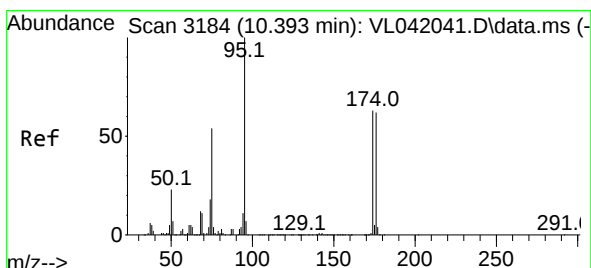
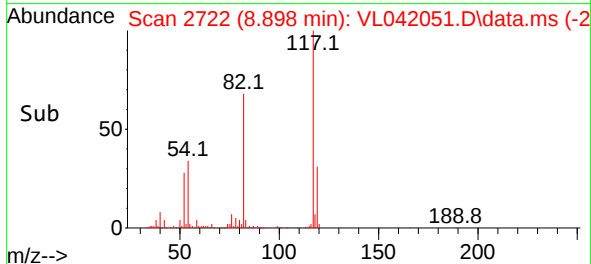
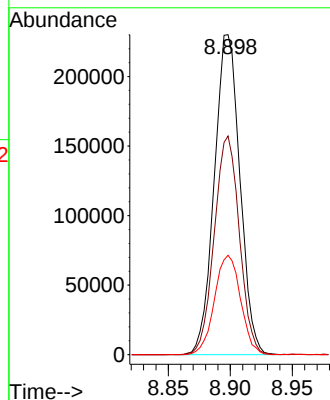
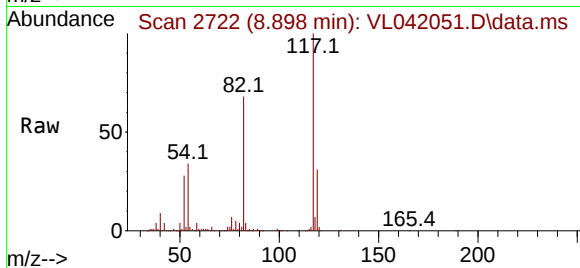




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

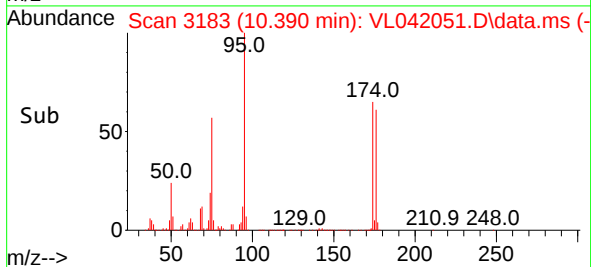
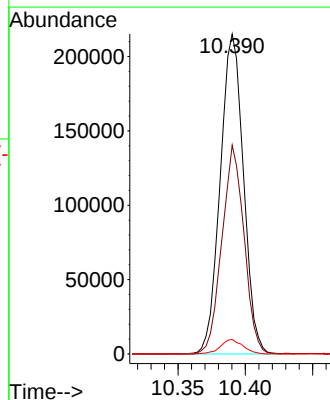
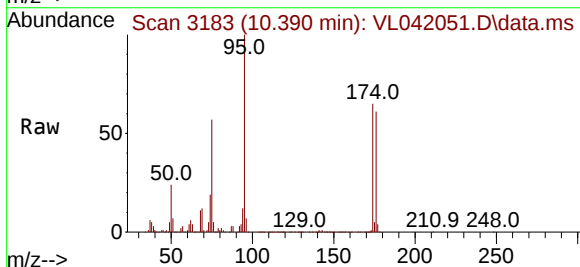
Instrument :
MSVOA_L
ClientSampleId :
VL0226ABL01

Tgt Ion:117 Resp: 331916
Ion Ratio Lower Upper
117 100
82 66.9 55.0 82.6
119 31.7 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.103 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042051.D
Acq: 26 Feb 2025 09:20

Tgt Ion: 95 Resp: 257988
Ion Ratio Lower Upper
95 100
174 62.4 51.8 77.6
175 4.4 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	48-07 Bell Blvd, Bayside NY	Date Received:	
Client Sample ID:	VL0226ABS01	SDG No.:	Q1419
Lab Sample ID:	VL0226ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042054.D	1		02/26/25 11:07	VL022625

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.90	25.3		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.30	36.9		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.30	36.9		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.20	50.2		0.050	0.16	ug/m3
79-01-6	Trichloroethene	9.10	48.9		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.40	63.7		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000		2.797			
540-36-3	1,4-Difluorobenzene	369000		3.972			
3114-55-4	Chlorobenzene-d5	319000		8.895			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	153181	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	369057	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	318885	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 257152 10.482 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	154942	9.727	ppbv	100
3) Chlorodifluoromethane	1.480	51	208345	9.358	ppbv	100
4) Chloromethane	1.538	50	53585	9.097	ppbv	99
5) Vinyl Chloride	1.583	62	54944	9.861	ppbv	96
6) Bromomethane	1.674	94	25364	9.560	ppbv	96
7) Chloroethane	1.709	64	21007	9.279	ppbv	88
8) Dichlorotetrafluoroethane	1.557	85	125091	9.553	ppbv	98
9) Propene	1.486	41	83500	9.206	ppbv	99
10) Heptane	5.001	43	256046	9.067	ppbv	99
11) Trichlorofluoromethane	1.884	101	154527	9.682	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	124837	9.805	ppbv	96
13) Ethanol	1.726	45	3000	5.211	ppbv	92
14) Bromoethene	1.787	108	43051	9.576	ppbv	99
15) Acetone	1.842	43	116404	8.605	ppbv	100
16) 1,3-Butadiene	1.612	39	57319	9.105	ppbv	99
17) tert-Butyl alcohol	2.049	59	156939	9.273	ppbv	99
18) 1,1-Dichloroethene	2.039	96	53389	9.281	ppbv	86
19) Isopropyl Alcohol	1.891	45	68899	8.867	ppbv	100
20) Methylene Chloride	2.069	84	46174	9.024	ppbv	93
21) Allyl Chloride	2.101	41	92702	9.484	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	61477	9.167	ppbv	99
23) Vinyl Acetate	2.470	43	80476	8.461	ppbv	98
24) 1,1-Dichloroethane	2.415	63	119185	9.551	ppbv	99
25) Ethyl Acetate	2.845	43	509260	9.405	ppbv	100
26) Hexane	2.836	57	194754	8.897	ppbv	94
27) Carbon Disulfide	2.156	76	144095	9.711	ppbv #	91
28) Methyl tert-Butyl Ether	2.451	73	106845	9.804	ppbv	99
29) Chloroform	2.858	83	266332	9.040	ppbv	98
30) Cyclohexane	3.871	84	158311	8.910	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	193240	9.325	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	262261	9.177	ppbv	96
34) 2-Butanone	2.567	43	292802	10.184	ppbv	97
35) Carbon Tetrachloride	3.778	117	262129	10.300	ppbv	95
36) Benzene	3.671	78	375533	9.720	ppbv	95
37) 1,2-Dichloroethane	3.231	62	218716	10.211	ppbv	98
38) Trichloroethene	4.567	130	143714	9.110	ppbv	95
39) 1,2-Dichloropropane	4.331	63	146117	9.964	ppbv	99
40) 1,4-Dioxane	4.603	88	65661	9.809	ppbv #	96
41) Tetrahydrofuran	3.066	42	172429	10.150	ppbv	98
42) Bromodichloromethane	4.506	83	289453	10.029	ppbv	100
43) Methyl Methacrylate	4.904	69	151059	10.012	ppbv	95
44) 2,2,4-Trimethylpentane	4.658	57	684336	10.036	ppbv	99
45) t-1,3-Dichloropropene	6.441	75	147062	9.811	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022625\
 Data File : VL042054.D
 Acq On : 26 Feb 2025 11:07
 Operator : SY/MD
 Sample : VL0226ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0226ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/27/2025
 Supervised By :Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 00:26:21 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	191420	9.868	ppbv	98
47) 1,1,2-Trichloroethane	6.603	97	139001	9.337	ppbv	97
48) Dibromochloromethane	7.406	129	228694	9.808	ppbv	100
49) Bromoform	9.497	173	194002	9.581	ppbv	99
50) 4-Methyl-2-Pentanone	5.775	43	407870	10.969	ppbv	98
51) 2-Hexanone	7.454	43	327784	12.808	ppbv #	99
52) Tetrachloroethene	8.241	164	123860	9.365	ppbv	95
53) Toluene	6.953	91	418086	9.683	ppbv	98
54) 1,2-Dibromoethane	7.671	107	190454	9.462	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.940	131	171980	9.542	ppbv	100
57) Chlorobenzene	8.937	112	313487	9.482	ppbv	98
58) Ethyl Benzene	9.370	91	575798	9.805	ppbv	99
59) m/p-Xylene	9.565	91	909392m	19.459	ppbv	
60) o-Xylene	9.976	91	450481	9.588	ppbv	100
61) Styrene	9.882	104	218205	9.879	ppbv	100
62) Isopropylbenzene	10.552	105	678100	9.637	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.976	83	295251	9.543	ppbv	99
64) n-propylbenzene	10.999	120	178544	9.674	ppbv	95
65) tert-Butylbenzene	11.542	119	599970	9.369	ppbv	98
66) Benzyl Chloride	11.630	91	44022	9.009	ppbv	97
67) sec-Butylbenzene	11.779	105	863022	9.423	ppbv	99
69) p-Isopropyltoluene	11.937	119	715231	9.816	ppbv	99
70) n-Butylbenzene	12.293	91	744799	10.014	ppbv	99
71) 2-Chlorotoluene	10.914	91	520897	9.603	ppbv	99
72) 4-Ethyltoluene	11.138	105	558376	9.734	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	475566	9.557	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	520419	9.288	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	302808	9.390	ppbv	98
76) 1,4-Dichlorobenzene	11.685	146	298128	9.311	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	293043	9.364	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	216968	8.911	ppbv	99
79) Naphthalene	13.523	128	476359	12.399	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187061	17.792	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	218258	10.194	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration Report

Sequence:	VL022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC010	VL042041.D	m/p-Xylene	SAM	2/26/2025 7:41:49 AM	MMDadoda	2/26/2025 1:45:05 PM	Peak Integrated by Software
VSTDICC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	Ethanol	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL022525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	2-Hexanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl022525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL022625	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042050.D	m/p-Xylene	SAM	2/27/2025 8:45:59 AM	MMDadoda	2/27/2025 12:12:55 PM	Peak Integrated by Software
VL0226ABS01	VL042054.D	m/p-Xylene	SAM	2/27/2025 8:46:05 AM	MMDadoda	2/27/2025 12:12:57 PM	Peak Integrated by Software
Q1419-02	VL042055.D	Carbon Tetrachloride	SAM	2/27/2025 8:46:55 AM	MMDadoda	2/27/2025 12:12:58 PM	Peak Integrated by Software
Q1419-02	VL042055.D	m/p-Xylene	SAM	2/27/2025 8:46:55 AM	MMDadoda	2/27/2025 12:12:58 PM	Peak Integrated by Software
Q1419-02	VL042055.D	Propene	SAM	2/27/2025 8:46:55 AM	MMDadoda	2/27/2025 12:12:58 PM	Peak Integrated by Software
Q1419-02	VL042055.D	Toluene	SAM	2/27/2025 8:46:55 AM	MMDadoda	2/27/2025 12:12:58 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	4-Methyl-2-Pentanone	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	Carbon Tetrachloride	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	Styrene	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1430-05DUP	VL042057.D	Tetrachloroethene	SAM	2/27/2025 8:47:31 AM	MMDadoda	2/27/2025 12:13:01 PM	Peak Integrated by Software
Q1419-01	VL042060.D	2-Hexanone	SAM	2/27/2025 8:46:19 AM	MMDadoda	2/27/2025 12:13:07 PM	Peak Integrated by Software
Q1419-01	VL042060.D	Ethanol	SAM	2/27/2025 8:46:19 AM	MMDadoda	2/27/2025 12:13:07 PM	Peak Integrated by Software
Q1419-01	VL042060.D	Heptane	SAM	2/27/2025 8:46:19 AM	MMDadoda	2/27/2025 12:13:07 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl022625	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1419-01	VL042060.D	Isopropyl Alcohol	SAM	2/27/2025 8:46:19 AM	MMDadoda	2/27/2025 12:13:07 PM	Peak Integrated by Software
Q1419-01	VL042060.D	m/p-Xylene	SAM	2/27/2025 8:46:19 AM	MMDadoda	2/27/2025 12:13:07 PM	Peak Integrated by Software
Q1419-01DL	VL042062.D	Ethanol	SAM	2/27/2025 8:47:24 AM	MMDadoda	2/27/2025 12:13:10 PM	Peak Integrated by Software
Q1419-01DL	VL042062.D	Trichloroethene	SAM	2/27/2025 8:47:24 AM	MMDadoda	2/27/2025 12:13:10 PM	Peak Integrated by Software
VSTDCCC010	VL042064.D	1,4-Dioxane	SAM	2/27/2025 8:46:24 AM	MMDadoda	2/27/2025 12:13:13 PM	Peak Integrated by Software
VSTDCCC010	VL042064.D	m/p-Xylene	SAM	2/27/2025 8:46:24 AM	MMDadoda	2/27/2025 12:13:13 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDIC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDIC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDIC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDIC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDIC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDIC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDIC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM		
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM		
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042049.D	26 Feb 2025 07:46	SY/MD	Ok
2	VSTDCCC010	VL042050.D	26 Feb 2025 08:38	SY/MD	Ok,M
3	VL0226ABL01	VL042051.D	26 Feb 2025 09:20	SY/MD	Ok
4	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04	SY/MD	Ok
5	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36	SY/MD	Ok
6	VL0226ABS01	VL042054.D	26 Feb 2025 11:07	SY/MD	Ok,M
7	Q1419-02	VL042055.D	26 Feb 2025 11:40	SY/MD	Ok,M
8	Q1430-05	VL042056.D	26 Feb 2025 12:14	SY/MD	Ok,M
9	Q1430-05DUP	VL042057.D	26 Feb 2025 12:48	SY/MD	Ok,M
10	Q1430-06	VL042058.D	26 Feb 2025 13:21	SY/MD	Ok,M
11	Q1430-06DL	VL042059.D	26 Feb 2025 13:52	SY/MD	Not Ok
12	Q1419-01	VL042060.D	26 Feb 2025 14:24	SY/MD	Dilution
13	Q1419-01DL	VL042061.D	26 Feb 2025 14:55	SY/MD	Not Ok
14	Q1419-01DL	VL042062.D	26 Feb 2025 15:27	SY/MD	Ok,M
15	Q1419-01DL2	VL042063.D	26 Feb 2025 15:58	SY/MD	Not Ok
16	VSTDCCC010	VL042064.D	26 Feb 2025 16:29	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M HP Processing Method VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042040.D	25 Feb 2025 07:56		SY/MD	Ok
2	VSTDICC010	VSTDICC010	VL042041.D	25 Feb 2025 08:56		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042042.D	25 Feb 2025 09:29		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042043.D	25 Feb 2025 10:00		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042047.D	25 Feb 2025 12:07		SY/MD	Ok,M
9	VSTDICV010	ICVVL022525	VL042048.D	25 Feb 2025 13:15		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022625

Review By	Semsettin Yesilyurt	Review On	2/27/2025 10:12:04 AM
Supervise By	Maresh Dadoda	Supervise On	2/27/2025 12:13:24 PM
SubDirectory	VL022625	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2576		
Initial Calibration Stds	AP2582,AP2584,AP2585		
CCC	AP2582		
Internal Standard/PEM	AP2576		
ICV/I.BLK	AP2586		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042049.D	26 Feb 2025 07:46		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042050.D	26 Feb 2025 08:38		SY/MD	Ok,M
3	VL0226ABL01	VL0226ABL01	VL042051.D	26 Feb 2025 09:20		SY/MD	Ok
4	QC021725 CAN 10271	QC021725 CAN 10271	VL042052.D	26 Feb 2025 10:04		SY/MD	Ok
5	QC022525 CAN 10795	QC022525 CAN 10795	VL042053.D	26 Feb 2025 10:36		SY/MD	Ok
6	VL0226ABS01	VL0226ABS01	VL042054.D	26 Feb 2025 11:07		SY/MD	Ok,M
7	Q1419-02	IA1	VL042055.D	26 Feb 2025 11:40		SY/MD	Ok,M
8	Q1430-05	IA1	VL042056.D	26 Feb 2025 12:14		SY/MD	Ok,M
9	Q1430-05DUP	IA1DUP	VL042057.D	26 Feb 2025 12:48		SY/MD	Ok,M
10	Q1430-06	OA1	VL042058.D	26 Feb 2025 13:21		SY/MD	Ok,M
11	Q1430-06DL	OA1DL	VL042059.D	26 Feb 2025 13:52	Not Required	SY/MD	Not Ok
12	Q1419-01	SV1	VL042060.D	26 Feb 2025 14:24	Need 40X	SY/MD	Dilution
13	Q1419-01DL	SV1DL	VL042061.D	26 Feb 2025 14:55	Need Further Dilution	SY/MD	Not Ok
14	Q1419-01DL	SV1DL	VL042062.D	26 Feb 2025 15:27		SY/MD	Ok,M
15	Q1419-01DL2	SV1DL2	VL042063.D	26 Feb 2025 15:58	Not Required	SY/MD	Not Ok
16	VSTDCCC010	VSTDCCC010EC	VL042064.D	26 Feb 2025 16:29		SY/MD	Ok,M

M : Manual Integration

Client Contact Information						Bottle Order ID :	B2502026	Courier : F Galdun	of _____ COCs						
Client ID : GFEL01			Project ID :			38-11-Bay Ridge Island City, NY			Sampler Name(s) : FRANK GALDUN						
Customer Name : GFE LLC			Project Manager :			Frank galdun			AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified						
			Phone Number :			646-542-3465									
Address : 58 Nokomis Ave			Fax Number :			973-334-1692									
			Site Details:			48-07 Ben Blvd. BAYSIDE, NY									
City : Lake Hiawatha			Analysis Turnaround Time			5 DAY			Data Package Type : RESULTS ONLY EDD Type : PDE						
State : NJ			Standard : 10 business days OR												
Zip Code : 07034			Rush (Specify):			5 Days									
Country :															
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg") (Start)	Can Vacuum In Field ("Hg") (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambinet Air	Soil Gas
SU1	12/15/18	10:20	10:30	20	6	60	60	-30	-4.7	10550	10267	6 L	VL041796.D		/
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>															
** Submittal of this COC Indicates approval of the analysis based on existing conditions.															
REPORT ONLY: PCP, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYLCHLORIDE															
Please follow the instructions on the back of this COC.															
PID Readings: 0.1 Low															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium Low															
Sampling site (State):															
Quick Connector required : NO															
Canisters Shipped by: [Signature]				Date/Time: 12/15/18				Canisters Received by: [Signature]				Date/Time: 12/15/18			
Samples Relinquished by: [Signature]				Date/Time: 12/15/18				Received by: [Signature]				Date/Time: 12/15/18			
Relinquished by:				Date/Time:				Received by:				Date/Time:			
B2502026 - 3															



CHEMTECH Project No. :

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Client Contact Information				Bottle Order ID : B2502026	Courier : FGARDUN	<u>2</u> of <u>2</u> COCs									
Client ID : GFELO1 Project ID :				Sampler Name(s) : FRANK GAIDUN											
Customer Name : GFE LLC				Project Manager : Frank gaidun											
Address : 58 Nokomis Ave				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
City : Lake Hiawatha				Site Details: 48-07 BELBUND. BASIDE, NY											
State : NJ				Analysis Turnaround Time 5 DAY											
Zip Code : 07034				Standard : 10 business days OR	Data Package Type : RESULTS ONLY										
Country :				Rush (Specify): 5 Days	EDD Type : PDF										
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg") (Start)	Can Vacuum In Field ("Hg") (Stop)**	In coming Can Pressure ("Hg)(Lab)	Out going Can Pressure ("Hg)(Lab)	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor Ambient Air	Soil Gas
T-AU 1/24/20 8:29 AM	1/24/20	8:29	10:20	6	6	-30	-30	60	60	10528	10492	50	VL041796.D	I	I
Temperature (Fahrenheit)															
		Ambient	Maximum	Minimum											
Start															
Stop															
Pressure (Inches of Hg)															
		Ambient	Maximum	Minimum											
Start															
Stop															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination:	High			Medium			Low			PID Readings: O.O.	GC/MS Analyst Signature (TO-15) <i>[Signature]</i>				
Sampling site (State):	Please follow the instructions on the back of this COC.														
** Submittal of this COC indicates approval of the analysis based on existing conditions.															
REPORT ONLY: PCE TCE cis-1,2-DCE, 1,1,1-TCA, 1,1-DDE VINYLCHLORIDE															
Quick Connector required : NO															
Canisters Shipped by:	Samsco			Date/Time:	2/24/20			Received by:	[Signature]			Date/Time:	2-24-20 12:20		
Samples Relinquished by:	FGARDUN			Date/Time:	2/24/20			Relinquished by:	[Signature]			Date/Time:			
Relinquished by:															

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Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

NA66:

Title: Sample Custodian

Field Sample Seal No. Q1419

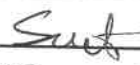
Date Broken 2/24/2025

Military Time Seal Broken: 12:20:00

Case No.: 48-07 Bell Blvd, Bayside N

Analytical Parameter/Fraction VOCMS Group3

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1419-01	SV1		
Q1419-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2-24-25	14:50	Signature 	Signature 	
		Printed Name <u>Cassandra Pena</u>	Printed Name <u>Sample Custodian</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID:

Document Control # A3041228

Process Report

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Order ID : Q1419

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
02/24/2025	B2502026	Q1419-02	-3.9	10492	6 L	10528		C2412002	VL041796.D Seq :vl121824 TUNE : VL041787.D ICAL : VL041757.D CCAL : VL041788.D MB : VL041790.D
02/24/2025	B2502026	Q1419-01	-4.7	10267	6 L	10550		C2412002	VL041796.D Seq :vl121824 TUNE : VL041787.D ICAL : VL041757.D CCAL : VL041788.D MB : VL041790.D

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #:

IA1

Client Name:

GFE

Project Name:

BELL BLVD.

Date:

2/24

Time:

Analysis:

TD-15

Comments:

Storage Location: VOA Lab

Sample: Q1419-02

Cust #: IA1

Method of Disposal:

B2502026

CHEMTECH

284 Sheffield Street, Mountainside, NJ 07092 P: (908) 789-8900 F: (908) 789-8922

Client Sample ID #:

SV1

Client Name:

GFE

Project Name:

21362 BVD

Date:

2/24

Time:

Analysis:

TD-15

Comments:

Storage Location: VOA Lab

Sample: Q1419-01

Cust #: SV1

Method of Disposal:

B2502026