



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2509073				Courier : FGALDUN				1 of 4 COCs					
Client ID : GFEL01				Project ID : All Projects				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: 74-16 CYPRESS HILL ST. GLENDALE, NY													
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY									
				Standard : 10 business days OR				EDD Type : PDP									
				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
IA1	10/1/25	8:39	10:29	19	0	70	70	-30	-2.7	10503	10334	6 L	50	VL042625.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sant							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										**Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST 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 : N																	
Canisters Shipped by: Sant				Date/Time: 09/29/25				Canisters Received by: OP				Date/Time: 10/2/25 1242				B2509073 - 2	
Samples Relinquished by: FGALDUN				Date/Time: 10/7/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2509073				Courier : <u>FGALDUN</u>				<u>2</u> of <u>4</u> COCs						
Client ID : GFE01 Project ID : All Projects				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis				Matrix						
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified										
				Phone Number : 646-542-3465														
				Fax Number : 973-334-1692														
City : Lake Hiawatha				Site Details: <u>74-16 CYPRESS HILL ST.</u> <u>GLENDALE, NY</u>														
State : NJ				Analysis Turnaround Time <u>5 DAY</u>														
Zip Code : 07034				Standard : <u>10 business days</u> OR				Data Package Type : <u>RESULTS ONLY</u>										
Country :				Rush (Specify): <u>5</u> Days				EDD Type : <u>PDF</u>										
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				
<u>OA1</u>	<u>06/25</u>	<u>08:03</u>	<u>10:30</u>	<u>2</u>	<u>70</u>	<u>70</u>	<u>-30</u>	<u>-4.3</u>	<u>10502</u>	<u>10329</u>	<u>6 L</u>	<u>50</u>	<u>VL042625.D</u>	<u>1</u>	<u>TO-15</u>	<u>1</u>	<u>1</u>	<u>1</u>
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) <u>[Signature]</u>								
		Ambient		Maximum		Minimum												
Start																		
Stop																		
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST</u> Please follow the instructions on the back of this COC.								
		Ambient		Maximum		Minimum												
Start																		
Stop																		
Special Instructions/QC Requirements & Comments :																		
Suspected Contamination: High Medium <u>Low</u> PID Readings <u>0.0</u>																		
Sampling site (State):																		
Quick Connector required : <u>NO</u>																		
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>09/29/15</u>				Canisters Received by: <u>CP</u>				Date/Time: <u>10/7/25 1242</u>						
Samples Relinquished by: <u>FWJW</u>				Date/Time: <u>10/7/25</u>				Received by:				Date/Time:						
Relinquished by:				Date/Time:				Received by:				Date/Time:						

Client Contact Information				Bottle Order ID : B2509073				Courier : <u>F Galdun</u>				<u>3</u> of <u>4</u> COCs			
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : <u>FRANK GALDUN</u>				Analysis				Matrix			
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
Site Details: <u>74-16 GIPRESS Hill St.</u> <u>GLENDALE, NY</u>															
City : Lake Hiawatha				Analysis Turnaround Time <u>5 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>							
State : NJ				Standard : <u>10 business days</u> OR				EDD Type : <u>PDF</u>							
Zip Code : 07034				Rush (Specify): <u>5</u> 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	TO-15			Indoor/Ambient Air	Soil Gas
SVI	10/7/25	8:17	10:17	over 20	4.4	70	70	-30	-4.3	10511	10598	6 L	50	VL042703.D	1				1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) [Signature]

** Submittal of this COC indicates approval of the analysis based on existing conditions.

REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 4.4

Sampling site (State):

Quick Connector required : <u>No</u>			
Canisters Shipped by: <u>[Signature]</u>	Date/Time: <u>09/29/25</u>	Canisters Received by: <u>[Signature]</u>	Date/Time: <u>10/6/25 12:42</u>
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>10/7/25</u>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2509073 - 4

Client Contact Information				Bottle Order ID : B2509073				Courier : <i>FGaldun</i>				4 of 4 COCs																
Client ID : GFEL01 Project ID : All Projects				Sampler Name(s) : <i>Frank Galdun</i>				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: <i>74-16 Cypress Hill St. GLENDALE, NY</i>																								
				Analysis Turnaround Time <i>5 DAY</i>				Data Package Type : <i>Results only</i>																				
				Standard : 10 business days OR				EDD Type : <i>RDE</i>																				
				Rush (Specify): <i>5</i> 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	<i>TO-15</i>	<i>Indoor/Ambient Air</i>	<i>Soil Gas</i>												
<i>SVZ</i>	<i>10/1/25</i>	<i>8:22</i>	<i>10:22</i>	<i>30</i>	<i>5</i>	<i>70</i>	<i>70</i>	<i>-30</i>	<i>-4.7</i>	<i>10649</i>	<i>10439</i>	<i>6 L</i>	<i>50</i>	<i>VL042625.D</i>	<i>1</i>	<i>1</i>												
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> GC/MS Analyst Signature (TO-15) <i>Sgt</i>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. <i>REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST</i> Please follow the instructions on the back of this COC.						
	Ambient	Maximum	Minimum																									
Start																												
Stop																												
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop										
	Ambient	Maximum	Minimum																									
Start																												
Stop																												
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium <i>(Low)</i> PID Readings: <i>0.4</i> Sampling site (State):																												
Quick Connector required : <i>No</i>																												
Canisters Shipped by: <i>Sam</i>				Date/Time: <i>09/29/25</i>				Canisters Received by: <i>CP</i>				Date/Time: <i>01/25 1242</i>																
Samples Relinquished by: <i>FWD</i>				Date/Time: <i>10/1/25</i>				Received by:				Date/Time:																
Relinquished by:				Date/Time:				Received by:				Date/Time:																

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

New Jersey Department of Environmental Protection

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: <u>Chemtech</u> Name Field Sample Seal No. <u>Q3306</u> Case No.: <u>74-16 Cypress Hill St, Gler</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u> Title: <u>Sample Custodian</u> Date Broken: <u>10/7/2025</u> Analytical Parameter/Fraction: <u>OCMS Group2</u>
Military Time Seal Broken: <u>12:42:00</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3306-01	IA1		
Q3306-02	OA1		
Q3306-03	SV1		
Q3306-04	SV2		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
10/7	1500	Signature		Signature	<i>Sue...</i>	
		Printed Name	<i>Douglas W.</i>	Printed Name	<i>Sue...</i>	
		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:	Q3306	OrderDate:	10/7/2025 2:43:29 PM
Client:	GFE LLC	Project:	74-16 Cypress Hill St, Glendale NY
Contact:	Frank Galdun	Location:	D31,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3306-01	IA1	Air	VOCMS Group2	TO-15	10/07/25		10/08/25	10/07/25
Q3306-02	OA1	Air	VOCMS Group2	TO-15	10/07/25		10/08/25	10/07/25
Q3306-03	SV1	Air	VOCMS Group2	TO-15	10/07/25		10/08/25	10/07/25
Q3306-04	SV2	Air	VOCMS Group2	TO-15	10/07/25		10/08/25	10/07/25

Hit Summary Sheet
SW-846

SDG No.: Q3306
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA1							
Q3306-01	IA1	Air	Benzene	0.51	J	0.26	1.60	ug/m3
Q3306-01	IA1	Air	Toluene	1.17	J	0.60	1.88	ug/m3
Q3306-01	IA1	Air	Hexane	48.3		0.56	1.76	ug/m3
			Total Voc :	50.0				
			Total Concentration:	50.0				
Client ID:	OA1							
Q3306-02	OA1	Air	Benzene	0.38	J	0.26	1.60	ug/m3
Q3306-02	OA1	Air	Toluene	0.72	J	0.60	1.88	ug/m3
Q3306-02	OA1	Air	Hexane	1.02	J	0.56	1.76	ug/m3
			Total Voc :	2.12				
			Total Concentration:	2.12				
Client ID:	SV1							
Q3306-03	SV1	Air	Heptane	5.74	J	3.48	10.3	ug/m3
Q3306-03	SV1	Air	Toluene	13.9		3.01	9.42	ug/m3
Q3306-03	SV1	Air	Tetrachloroethene	15.6		0.54	1.02	ug/m3
Q3306-03	SV1	Air	Ethyl Benzene	9.99	J	4.13	10.9	ug/m3
Q3306-03	SV1	Air	m/p-Xylene	33.9		9.12	21.7	ug/m3
Q3306-03	SV1	Air	o-Xylene	16.9		4.78	10.9	ug/m3
Q3306-03	SV1	Air	1,3,5-Trimethylbenzene	9.34	J	4.42	12.3	ug/m3
Q3306-03	SV1	Air	1,2,4-Trimethylbenzene	13.3		4.42	12.3	ug/m3
Q3306-03	SV1	Air	Hexane	36.6		2.82	8.81	ug/m3
			Total Voc :	155				
			Total Concentration:	155				
Client ID:	SV2							
Q3306-04	SV2	Air	Heptane	7.38	J	3.48	10.3	ug/m3
Q3306-04	SV2	Air	Toluene	13.9		3.01	9.42	ug/m3
Q3306-04	SV2	Air	Tetrachloroethene	9.49		0.54	1.02	ug/m3
Q3306-04	SV2	Air	Ethyl Benzene	6.08	J	4.13	10.9	ug/m3
Q3306-04	SV2	Air	m/p-Xylene	16.9	J	9.12	21.7	ug/m3
Q3306-04	SV2	Air	o-Xylene	9.56	J	4.78	10.9	ug/m3
Q3306-04	SV2	Air	1,2,4-Trimethylbenzene	4.62	J	4.42	12.3	ug/m3
Q3306-04	SV2	Air	Hexane	72.3		2.82	8.81	ug/m3
			Total Voc :	140				
			Total Concentration:	140				



QC SUMMARY

Surrogate Summary

SDG No.: Q3306

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3306-01	IA1	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3306-01DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q3306-02	OA1	1-Bromo-4-Fluorobenzene	10	9.66	97		65	135
Q3306-03	SV1	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3306-04	SV2	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
VL1008ABL01	VL1008ABL01	1-Bromo-4-Fluorobenzene	10	9.46	95		65	135
VL1008ABS01	VL1008ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3306</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL043056.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1008ABS01	Vinyl Chloride	10	9.50	ppbv	95			70	130	
	Heptane	10	11.0	ppbv	110			70	130	
	1,1-Dichloroethane	10	9.60	ppbv	96			70	130	
	Cyclohexane	10	10.5	ppbv	105			70	130	
	cis-1,2-Dichloroethene	10	9.60	ppbv	96			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	11.3	ppbv	113			70	130	
	Benzene	10	10.4	ppbv	104			70	130	
	Trichloroethene	10	10.6	ppbv	106			70	130	
	Toluene	10	11.3	ppbv	113			70	130	
	Tetrachloroethene	10	9.70	ppbv	97			70	130	
	Ethyl Benzene	10	11.6	ppbv	116			70	130	
	m/p-Xylene	20	23.0	ppbv	115			70	130	
	o-Xylene	10	11.5	ppbv	115			70	130	
	1,3,5-Trimethylbenzene	10	11.1	ppbv	111			70	130	
	1,2,4-Trimethylbenzene	10	11.0	ppbv	110			70	130	
	Naphthalene	10	10.0	ppbv	100			70	130	
	Hexane	10	10.5	ppbv	105			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q3306-01DUP	Q3306-01
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL043062.D	VL043061.D
Anal Date & Time :	10/08/2025 13:58	10/08/2025 13:23

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	0.17	0.16	6.1
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0	0	0
Heptane	0	0	0
Hexane	13.7	13.7	0
m/p-Xylene	0	0	0
Naphthalene	0	0	0
o-Xylene	0	0	0
Tetrachloroethene	0	0	0
Toluene	0.31	0.31	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3306

Lab File ID: VL043062.D

Lab Sample ID: Q3306-01DUP

Date Analyzed: 10/08/2025

Time Analyzed: 13:58

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	Q3306-01DUP	VL043062.D	10/08/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL1008ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3306

Lab File ID: VL043055.D

Lab Sample ID: VL1008ABL01

Date Analyzed: 10/08/2025

Time Analyzed: 09:39

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
VL1008ABS01	VL1008ABS01	VL043056.D	10/08/2025
IA1	Q3306-01	VL043061.D	10/08/2025
OA1	Q3306-02	VL043063.D	10/08/2025
SV2	Q3306-04	VL043066.D	10/08/2025
SV1	Q3306-03	VL043067.D	10/08/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3306

Lab File ID: VL043030.D

BFB Injection Date: 10/02/2025

Instrument ID: MSVOA_L

BFB Injection Time: 09:11

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	56
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.2 (0.3) 1
174	50.0 - 120.0% of mass 95	65.8
175	4.0 - 9.0% of mass 174	4.5 (6.9) 1
176	93.0 - 101.0% of mass 174	64.4 (97.8) 1
177	5.0 - 9.0% of mass 176	4.1 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC0.5	VSTDICC0.5	VL043031.D	10/02/2025	09:50
VSTDICCC010	VSTDICCC010	VL043032.D	10/02/2025	10:23
VSTDICC002	VSTDICC002	VL043033.D	10/02/2025	10:57
VSTDICC001	VSTDICC001	VL043034.D	10/02/2025	11:29
VSTDICC0.1	VSTDICC0.1	VL043036.D	10/02/2025	12:35
VSTDICC0.03	VSTDICC0.03	VL043037.D	10/02/2025	13:07
VSTDICC015	VSTDICC015	VL043038.D	10/02/2025	13:41

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3306

Lab File ID: VL043053.D

BFB Injection Date: 10/08/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:00

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.5
75	30.0 - 60.0% of mass 95	56.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5) 1
174	50.0 - 100.0% of mass 95	61.9
175	5.0 - 9.0% of mass 174	4.5 (7.2) 1
176	95.0 - 101.0% of mass 174	58.7 (94.8) 1
177	5.0 - 9.0% of mass 176	3.7 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL043054.D	10/08/2025	08:54
VL1008ABL01	VL1008ABL01	VL043055.D	10/08/2025	09:39
VL1008ABS01	VL1008ABS01	VL043056.D	10/08/2025	10:23
IA1	Q3306-01	VL043061.D	10/08/2025	13:23
IA1DUP	Q3306-01DUP	VL043062.D	10/08/2025	13:58
OA1	Q3306-02	VL043063.D	10/08/2025	14:32
SV2	Q3306-04	VL043066.D	10/08/2025	19:57
SV1	Q3306-03	VL043067.D	10/08/2025	20:30

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q3306
 Lab File ID: VL043054.D Date Analyzed: 10/08/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:54
 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	178633	2.79	491196	3.96	404989	8.89
UPPER LIMIT	250086	3.12	687674	4.29	566985	9.22
LOWER LIMIT	107180	2.46	294718	3.63	242993	8.56
EPA SAMPLE NO.						
IA1	178803	2.79	481093	3.96	385982	8.89
IA1DUP	183624	2.79	501713	3.97	398502	8.89
OA1	182962	2.79	486916	3.96	383740	8.88
SV1	191364	2.79	519787	3.96	486482	8.88
SV2	197688	2.79	519007	3.96	480524	8.88
VL1008ABL01	180991	2.79	491665	3.97	390940	8.89
VL1008ABS01	180769	2.79	507280	3.97	420006	8.89

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: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q3306
 Lab File ID: VL043054.D Date Analyzed: 10/08/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:54
 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.						
IA1	0	0.00				
IA1DUP	0	0.00				
OA1	0	0.00				
SV1	0	0.00				
SV2	0	0.00				
VL1008ABL01	0	0.00				
VL1008ABS01	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:	10/07/25
Project:	74-16 Cypress Hill St, Glendale NY	Date Received:	10/07/25
Client Sample ID:	IA1	SDG No.:	Q3306
Lab Sample ID:	Q3306-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043061.D	1		10/08/25 13:23	VL100825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
142-82-5	Heptane	0.17	0.70	U	0.70	2.05
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34
71-43-2	Benzene	0.16	0.51	J	0.26	1.60
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
108-88-3	Toluene	0.31	1.17	J	0.60	1.88
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52
110-54-3	Hexane	13.7	48.3		0.56	1.76
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	179000		2.791		
540-36-3	1,4-Difluorobenzene	481000		3.962		
3114-55-4	Chlorobenzene-d5	386000		8.885		

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\VL100825\
 Data File : VL043061.D
 Acq On : 08 Oct 2025 13:23
 Operator : SY/MD
 Sample : Q3306-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:17:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	178803	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.962	114	481093	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.885	117	385982	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	288219	10.366	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	= 103.700%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	13833	0.459	ppbv	98
3) Chlorodifluoromethane	1.476	51	7602m	0.261	ppbv	
4) Chloromethane	1.535	50	4994	0.454	ppbv	98
9) Propene	1.489	41	12045	1.025	ppbv	84
11) Trichlorofluoromethane	1.881	101	7449	0.241	ppbv	99
13) Ethanol	1.722	45	47271	109.705	ppbv	92
15) Acetone	1.839	43	165569	6.613	ppbv	99
20) Methylene Chloride	2.066	84	259738	23.769	ppbv	98
26) Hexane	2.833	57	329986	13.659	ppbv #	34
34) 2-Butanone	2.561	43	11558	0.354	ppbv	99
35) Carbon Tetrachloride	3.765	117	2785m	0.070	ppbv	
36) Benzene	3.664	78	7242	0.158	ppbv	94
44) 2,2,4-Trimethylpentane	4.648	57	9153	0.124	ppbv #	79
53) Toluene	6.940	91	14220m	0.306	ppbv	
59) m/p-Xylene	9.539	91	7125m	0.141	ppbv	
74) 1,2,4-Trimethylbenzene	11.539	105	6201m	0.106	ppbv	

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

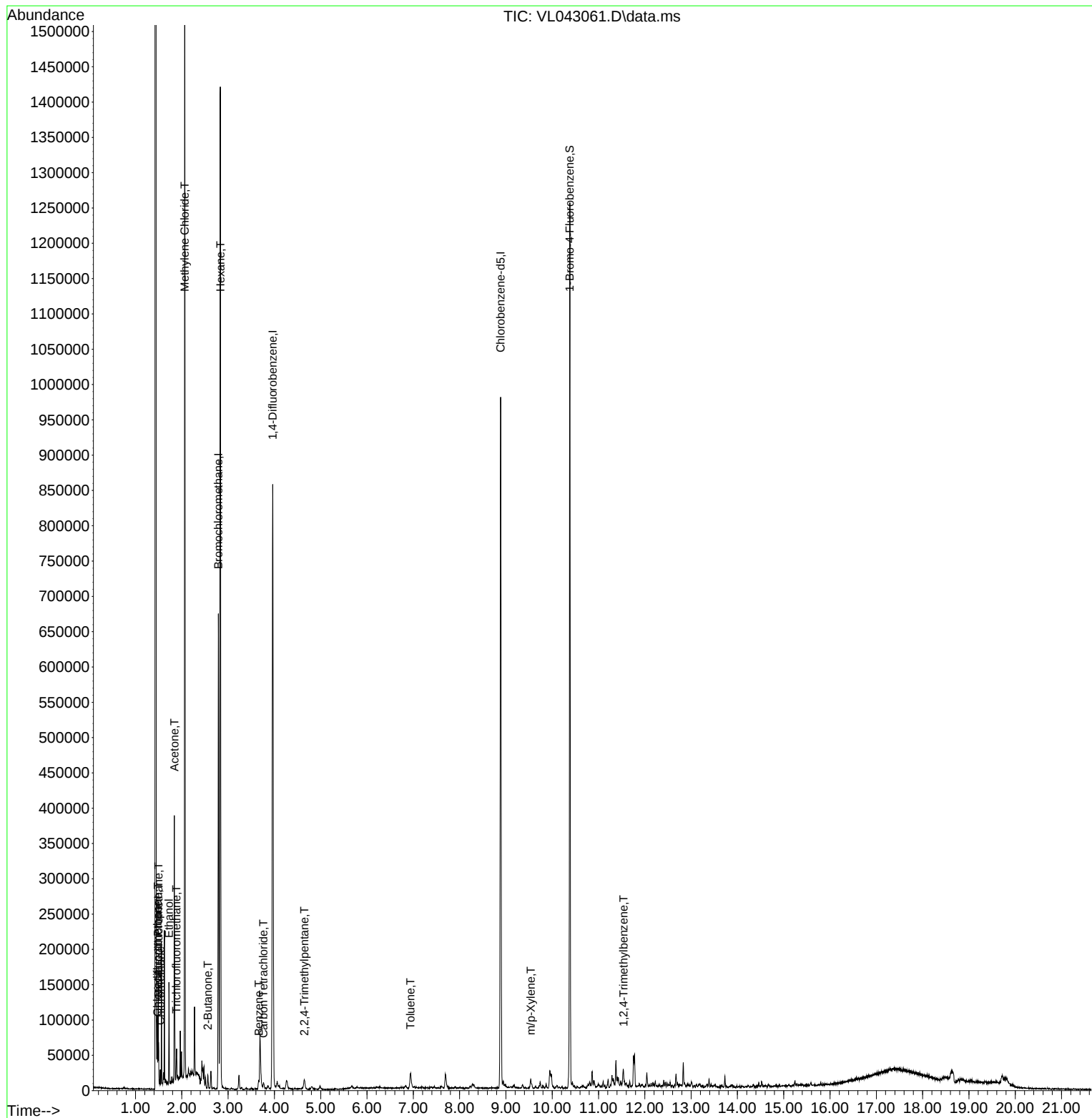
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043061.D
Acq On : 08 Oct 2025 13:23
Operator : SY/MD
Sample : Q3306-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

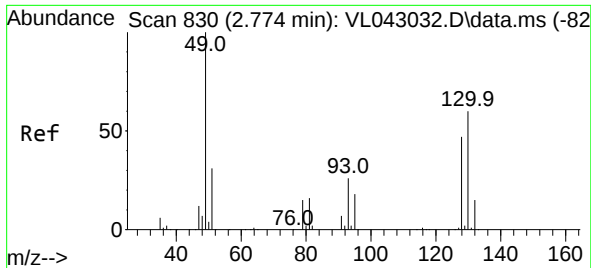
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Oct 09 01:17:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

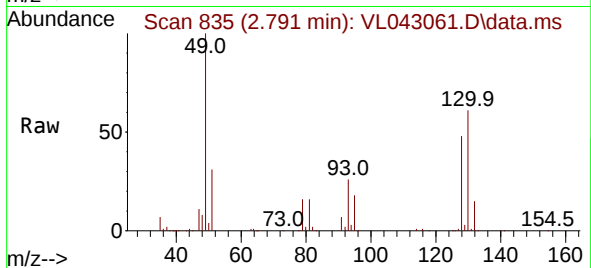
Reviewed By : Semsettin Yesilyurt 10/09/2025
Supervised By : Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.791 min Scan# 81
Delta R.T. 0.017 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

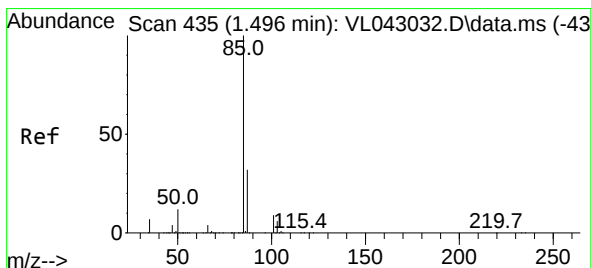
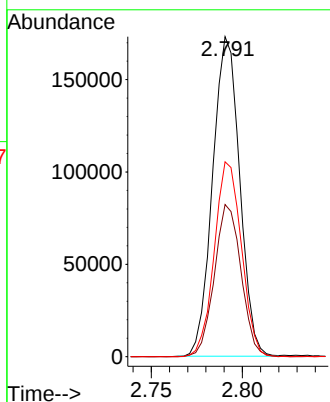
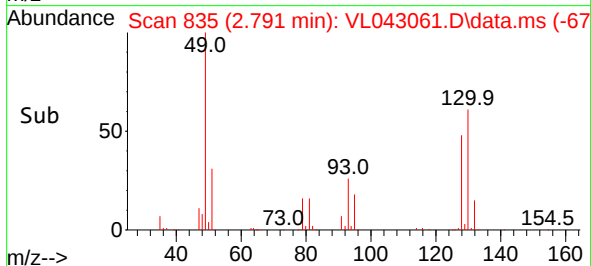
Instrument :
MSVOA_L
ClientSampleId :
IA1



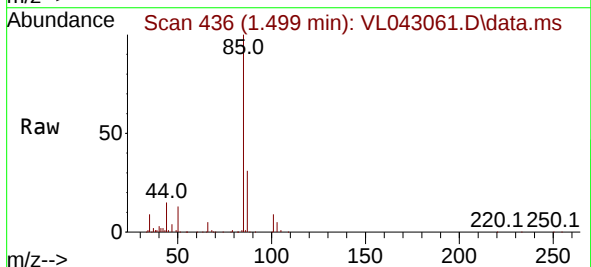
Tgt Ion: 49 Resp: 17880
Ion Ratio Lower Upper
49 100
128 46.9 24.1 72.2
130 61.1 31.4 94.3

Manual Integrations
APPROVED

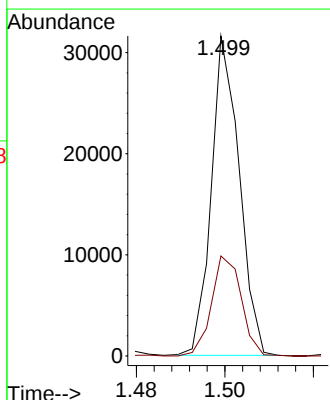
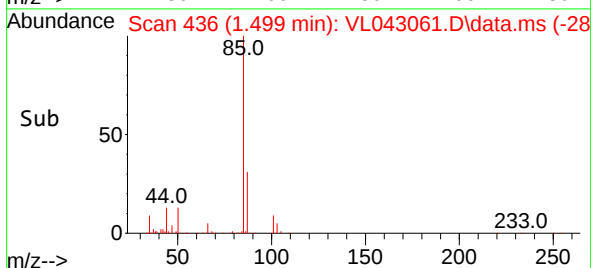
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

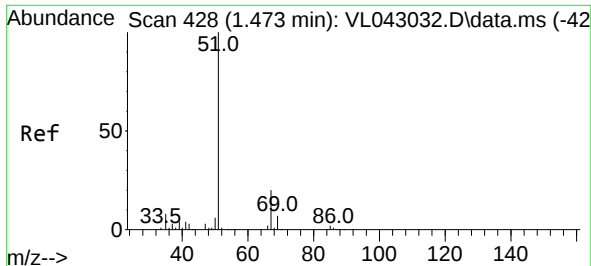


#2
Dichlorodifluoromethane
Concen: 0.459 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.004 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



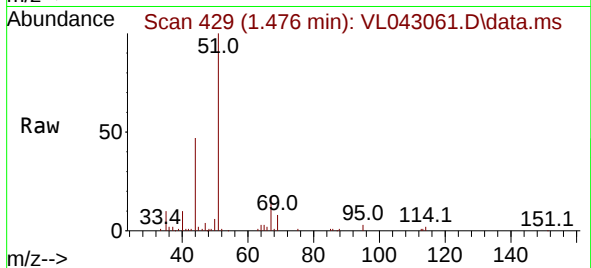
Tgt Ion: 85 Resp: 13833
Ion Ratio Lower Upper
85 100
87 31.3 25.8 38.6





#3
Chlorodifluoromethane
Concen: 0.261 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

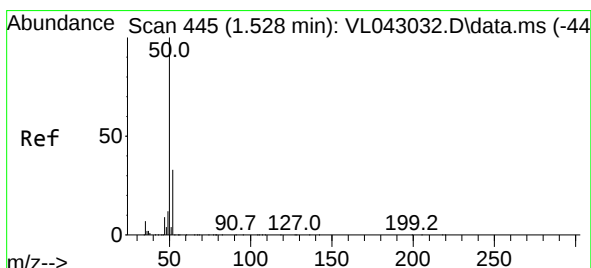
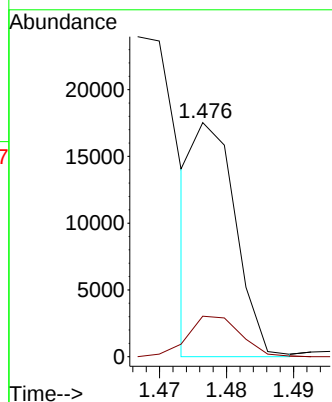
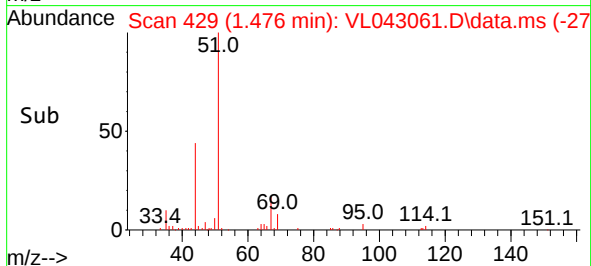
Instrument :
MSVOA_L
ClientSampleId :
IA1



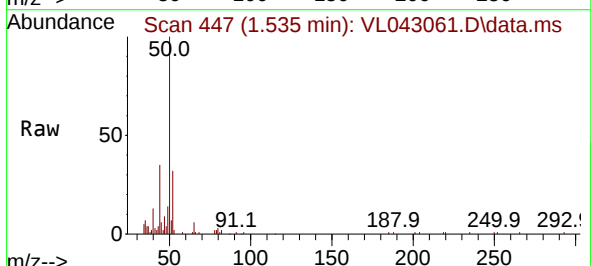
Tgt Ion: 51 Resp: 760
Ion Ratio Lower Upper
51 100
67 22.0 15.1 22.7

Manual Integrations
APPROVED

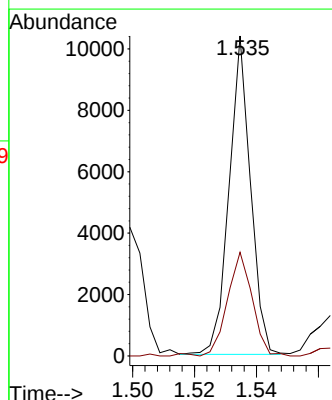
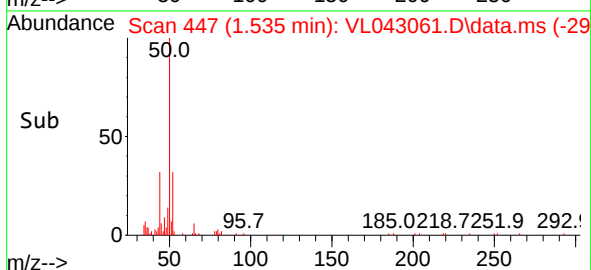
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

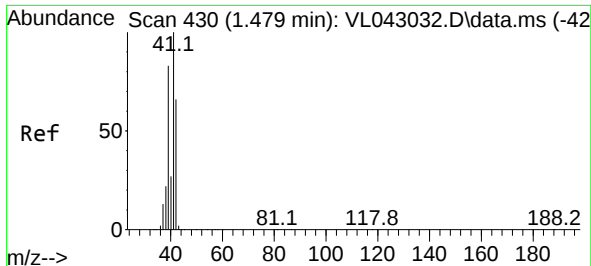


#4
Chloromethane
Concen: 0.454 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



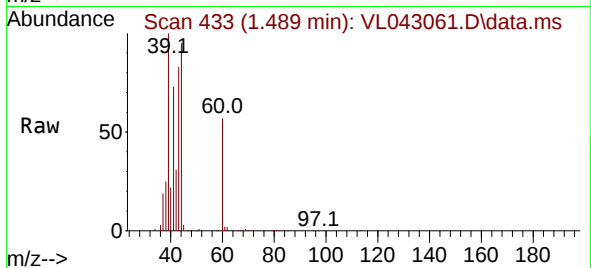
Tgt Ion: 50 Resp: 4994
Ion Ratio Lower Upper
50 100
52 33.6 26.2 39.2





#9
Propene
Concen: 1.025 ppbv
RT: 1.489 min Scan# 41
Delta R.T. 0.010 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

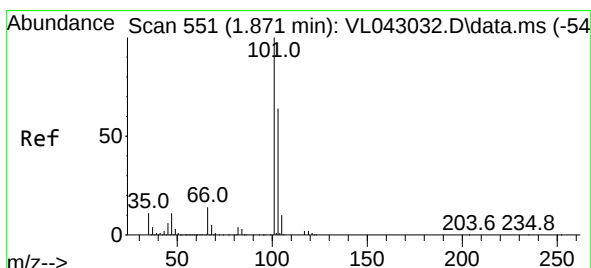
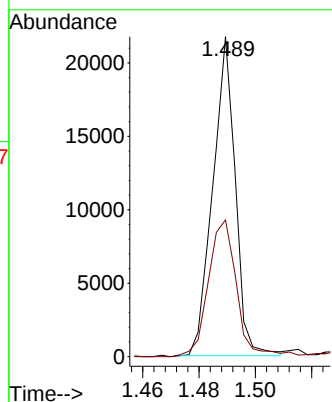
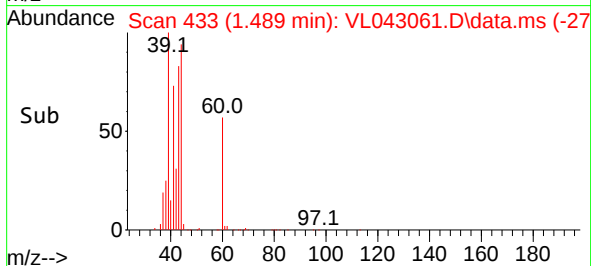
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 41 Resp: 12049
Ion Ratio Lower Upper
41 100
42 54.1 53.3 79.9

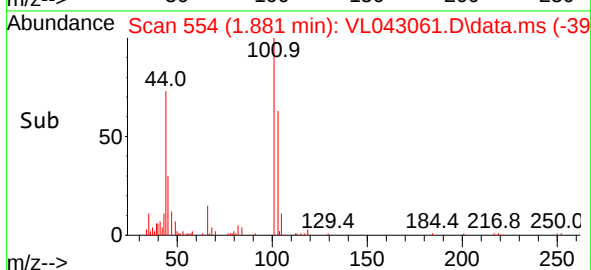
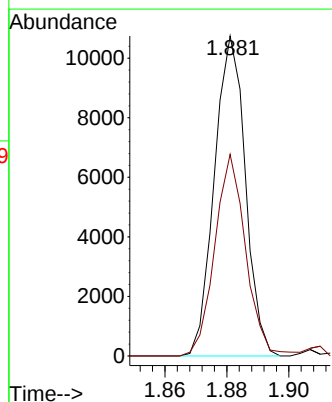
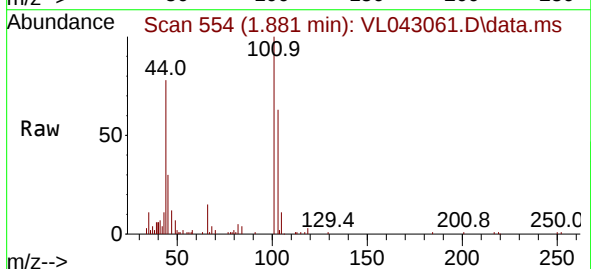
Manual Integrations
APPROVED

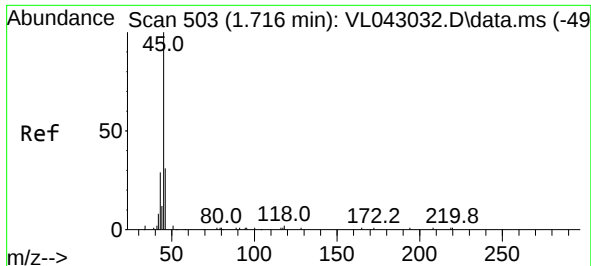
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 0.241 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.010 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

Tgt Ion:101 Resp: 7449
Ion Ratio Lower Upper
101 100
103 63.0 51.1 76.7





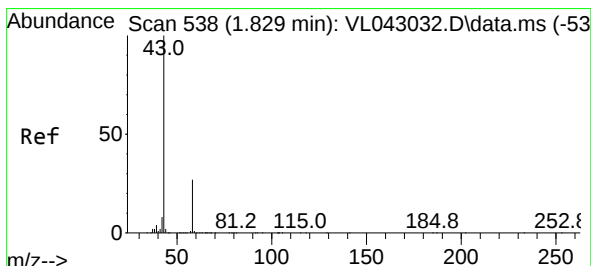
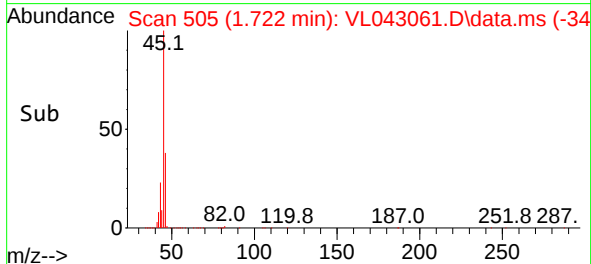
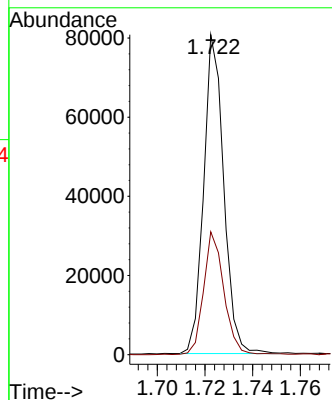
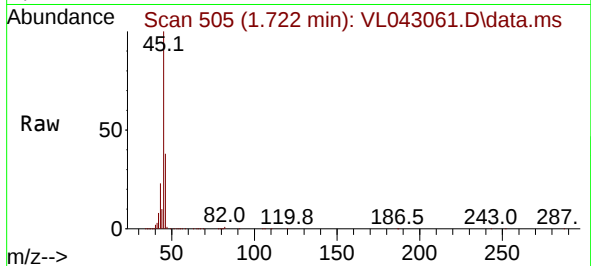
#13
Ethanol
Concen: 109.705 ppbv
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 45 Resp: 4727
Ion Ratio Lower Upper
45 100
46 39.6 17.8 71.4

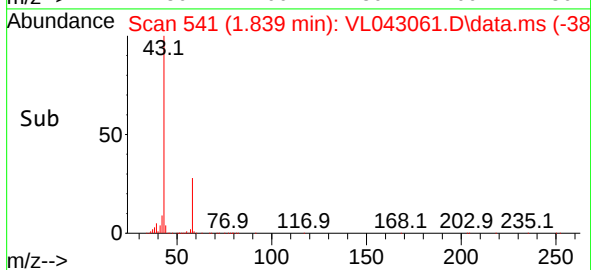
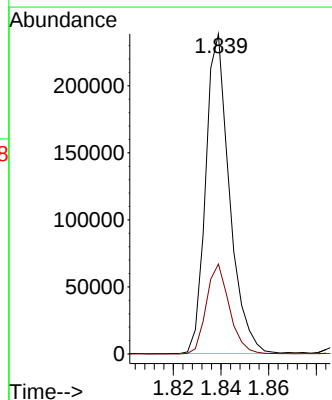
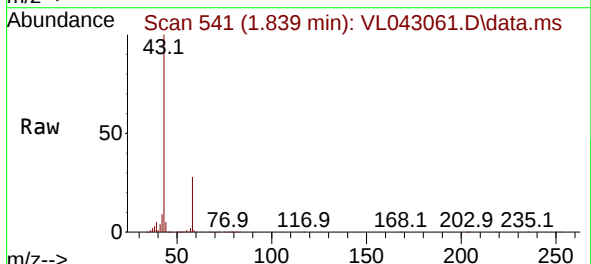
Manual Integrations
APPROVED

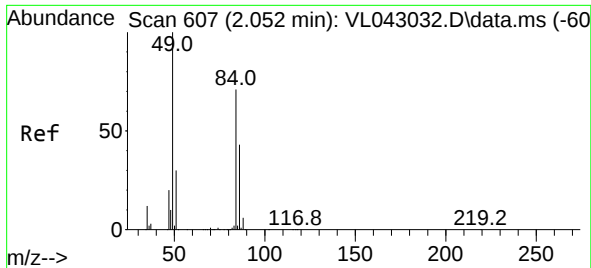
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#15
Acetone
Concen: 6.613 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

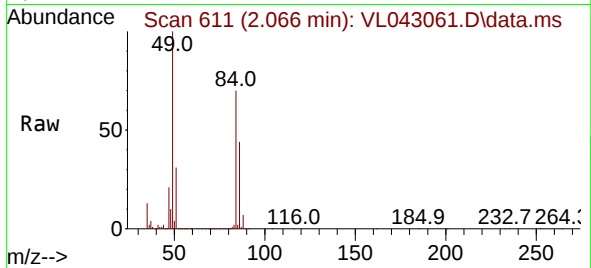
Tgt Ion: 43 Resp: 165569
Ion Ratio Lower Upper
43 100
58 27.4 22.2 33.4





#20
Methylene Chloride
Concen: 23.769 ppbv
RT: 2.066 min Scan# 611
Delta R.T. 0.013 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

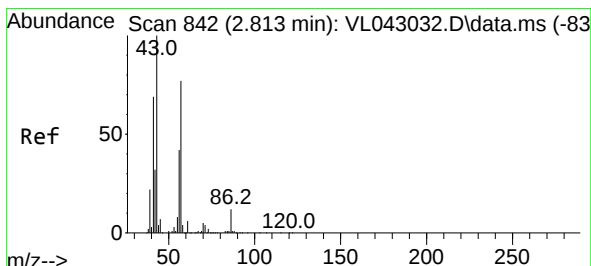
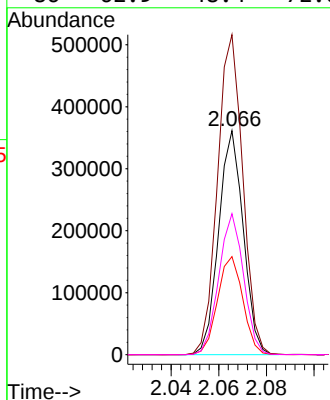
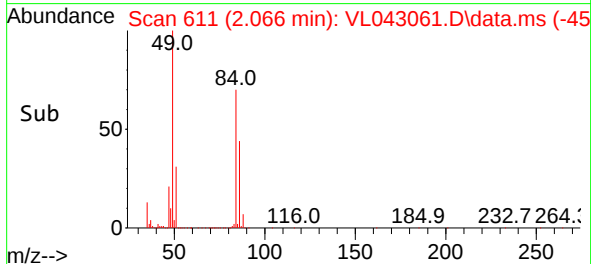
Instrument :
MSVOA_L
ClientSampleId :
IA1



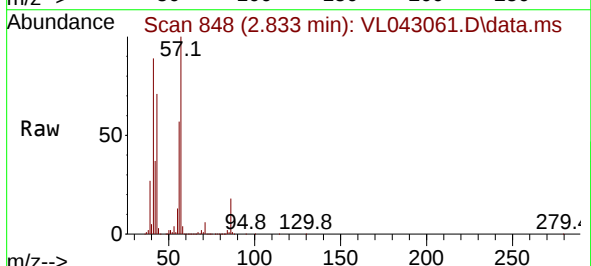
Tgt Ion: 84 Resp: 259738
Ion Ratio Lower Upper
84 100
49 142.8 112.5 168.7
51 43.7 34.2 51.2
86 62.9 48.4 72.6

Manual Integrations
APPROVED

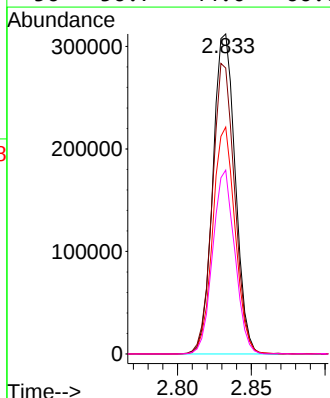
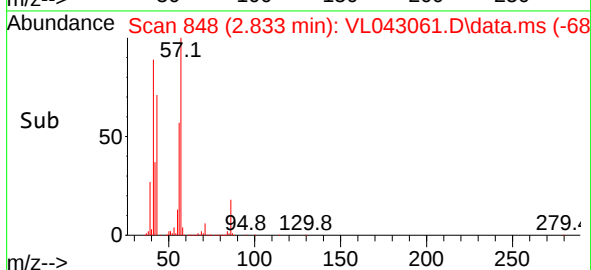
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

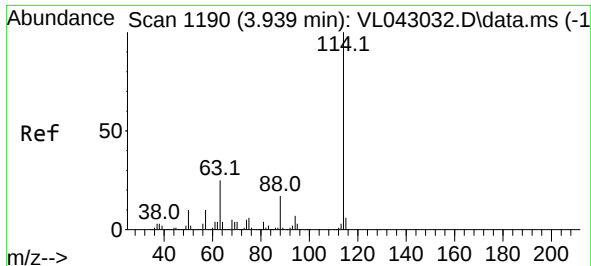


#26
Hexane
Concen: 13.659 ppbv
RT: 2.833 min Scan# 848
Delta R.T. 0.020 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



Tgt Ion: 57 Resp: 329986
Ion Ratio Lower Upper
57 100
41 90.8 76.1 114.1
43 71.0 201.4 302.0#
56 56.7 44.0 66.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1190

Delta R.T. 0.023 min

Lab File: VL043061.D

Acq: 08 Oct 2025 13:23

Instrument :

MSVOA_L

ClientSampleId :

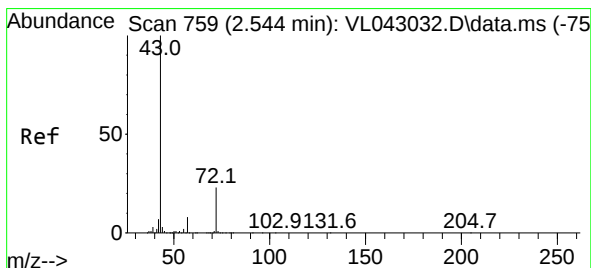
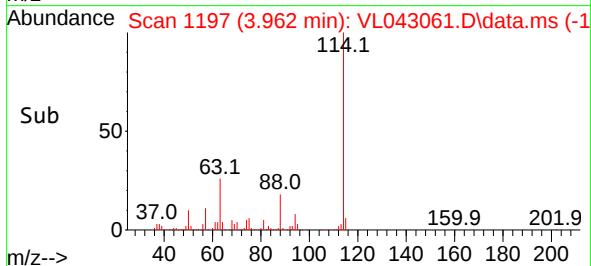
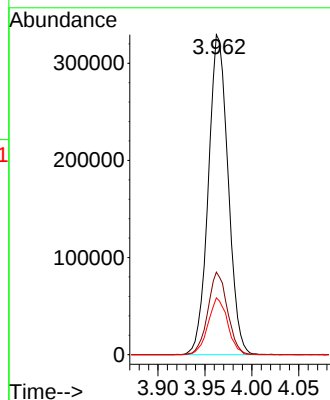
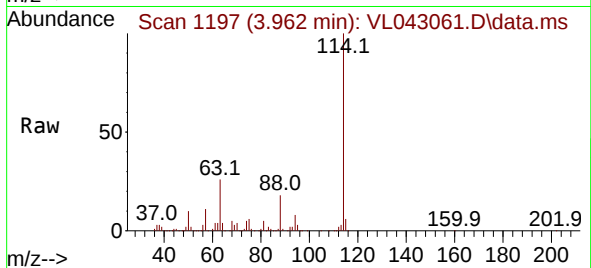
IA1

Tgt Ion:	114	Resp:	48109
Ion Ratio	Lower	Upper	
114	100		
63	25.7	19.4	29.2
88	17.6	13.9	20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#34

2-Butanone

Concen: 0.354 ppbv

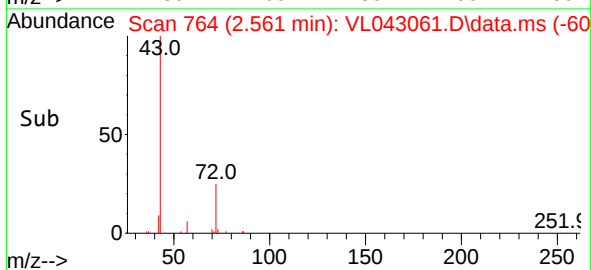
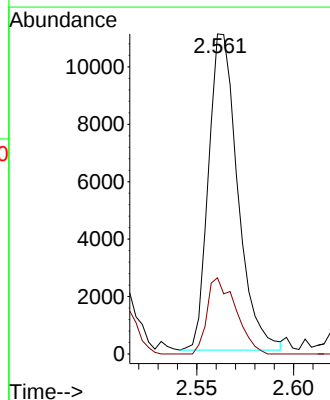
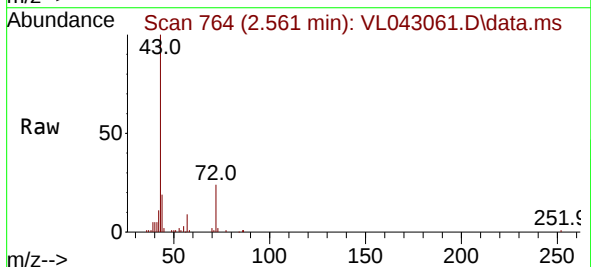
RT: 2.561 min Scan# 764

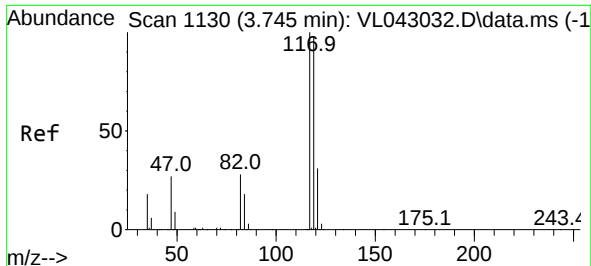
Delta R.T. 0.016 min

Lab File: VL043061.D

Acq: 08 Oct 2025 13:23

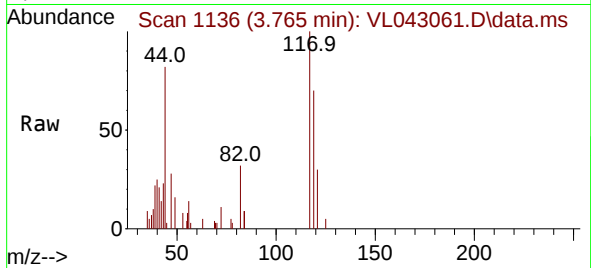
Tgt Ion:	43	Resp:	11558
Ion Ratio	Lower	Upper	
43	100		
72	23.7	18.4	27.6





#35
Carbon Tetrachloride
Concen: 0.070 ppbv m
RT: 3.765 min Scan# 1130
Delta R.T. 0.020 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

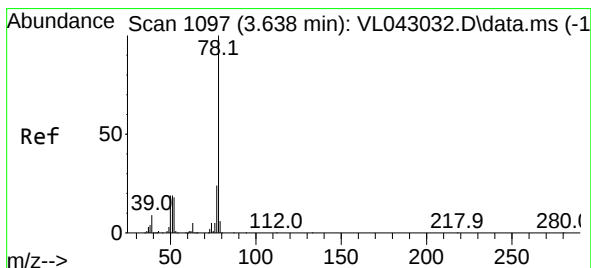
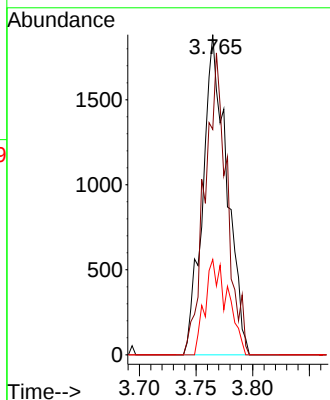
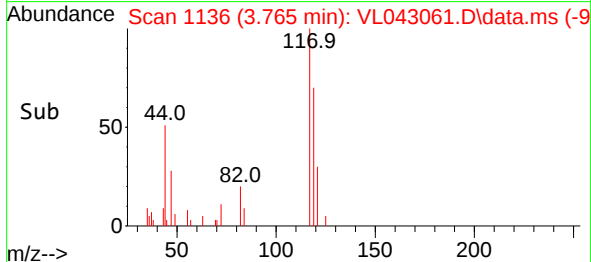
Instrument :
MSVOA_L
ClientSampleId :
IA1



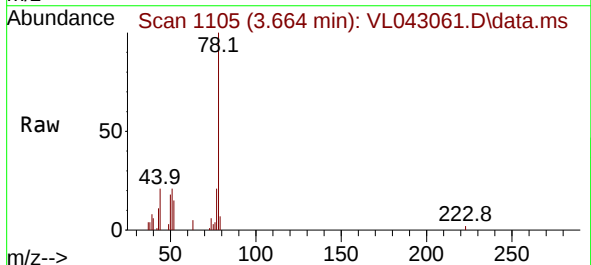
Tgt Ion: 117 Resp: 278
Ion Ratio Lower Upper
117 100
119 70.4 78.2 117.4
121 29.8 24.8 37.2

Manual Integrations
APPROVED

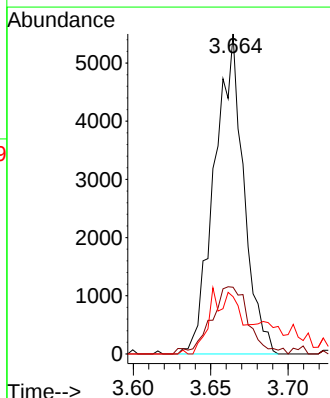
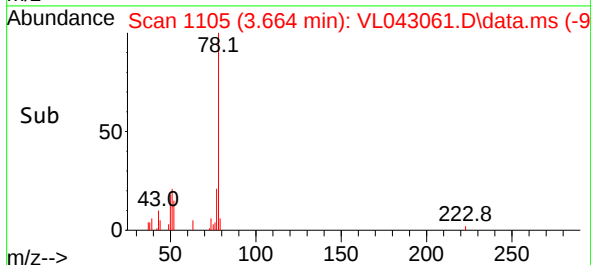
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

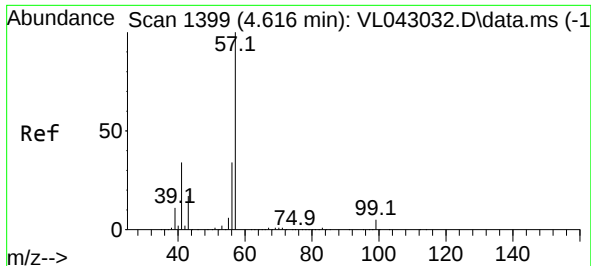


#36
Benzene
Concen: 0.158 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.026 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23



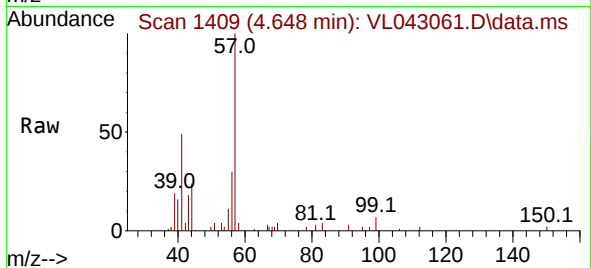
Tgt Ion: 78 Resp: 7242
Ion Ratio Lower Upper
78 100
77 19.6 19.2 28.8
50 17.9 14.9 22.3





#44
2,2,4-Trimethylpentane
Concen: 0.124 ppbv
RT: 4.648 min Scan# 1409
Delta R.T. 0.033 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

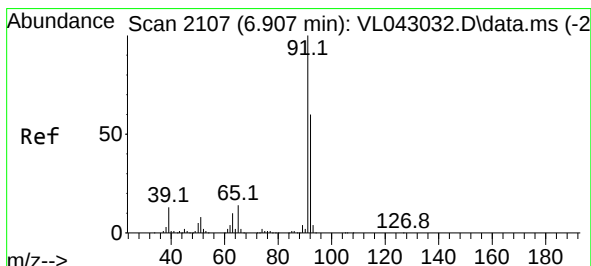
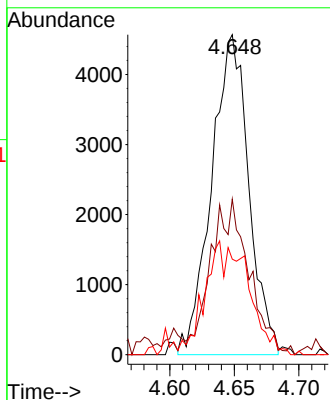
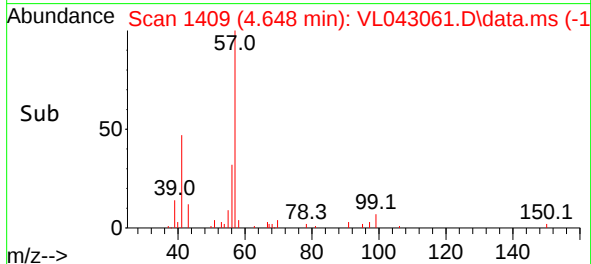
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 915
Ion Ratio Lower Upper
57 100
41 48.4 27.0 40.4
56 41.4 26.0 39.0

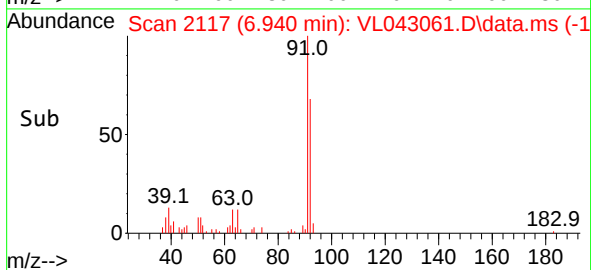
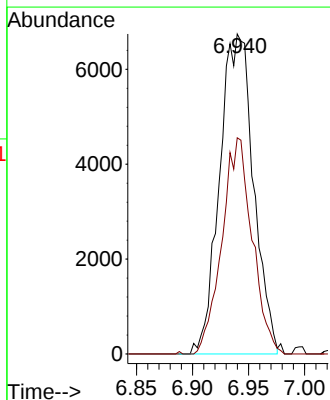
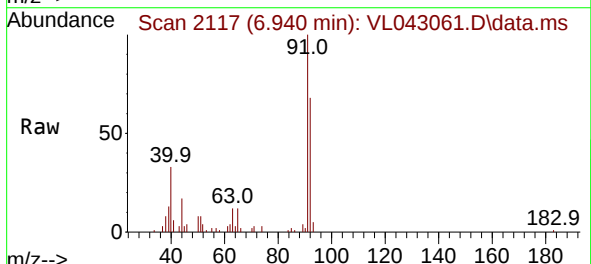
Manual Integrations
APPROVED

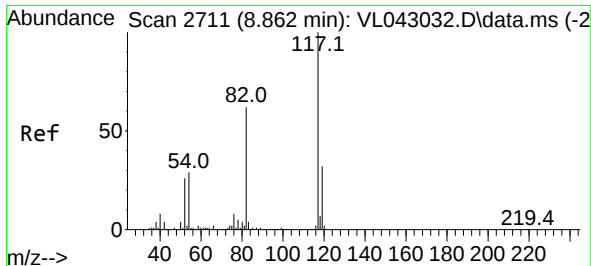
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.306 ppbv m
RT: 6.940 min Scan# 2117
Delta R.T. 0.033 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

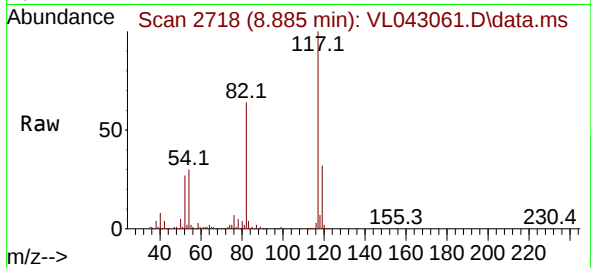
Tgt Ion: 91 Resp: 14220
Ion Ratio Lower Upper
91 100
92 60.2 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.885 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

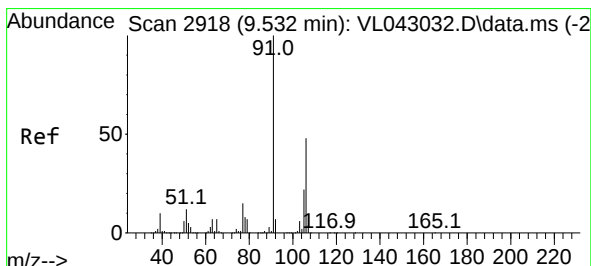
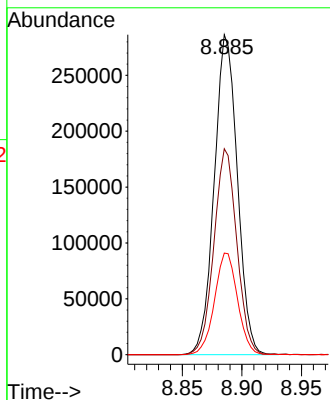
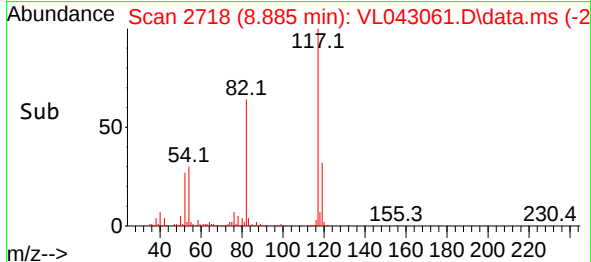
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 38598
Ion Ratio Lower Upper
117 100
82 63.7 53.0 79.6
119 31.7 25.4 38.2

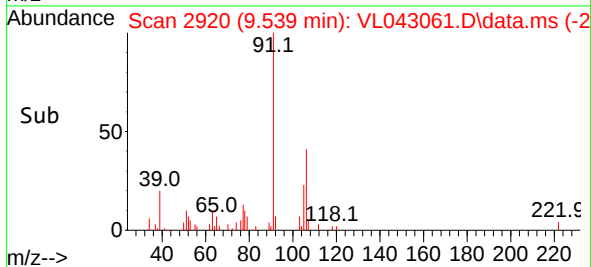
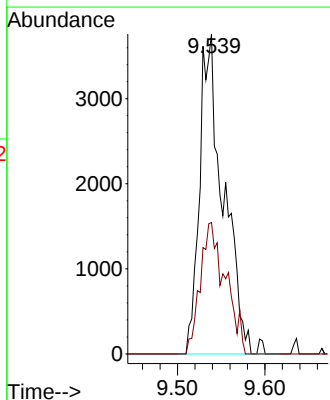
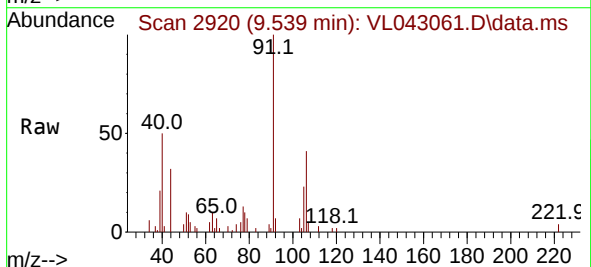
Manual Integrations
APPROVED

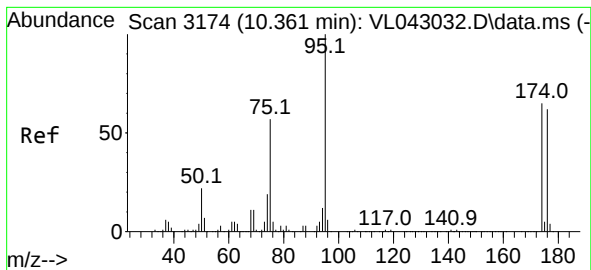
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#59
m/p-Xylene
Concen: 0.141 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. 0.007 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

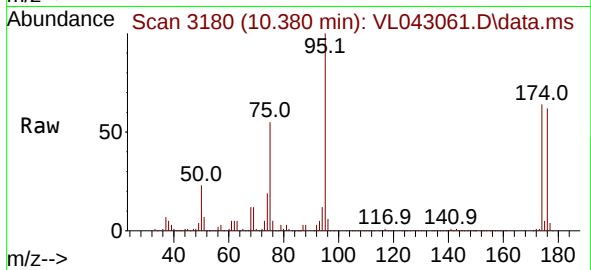
Tgt Ion: 91 Resp: 7125
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.366 ppbv
RT: 10.380 min Scan# 3174
Delta R.T. 0.020 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

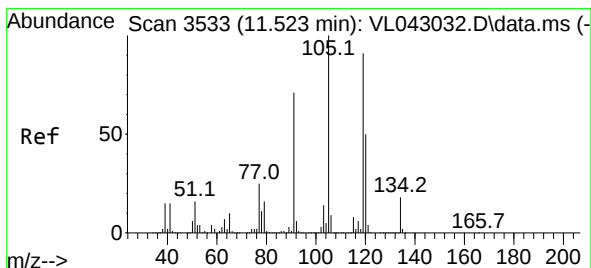
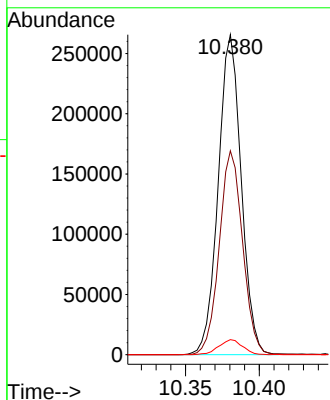
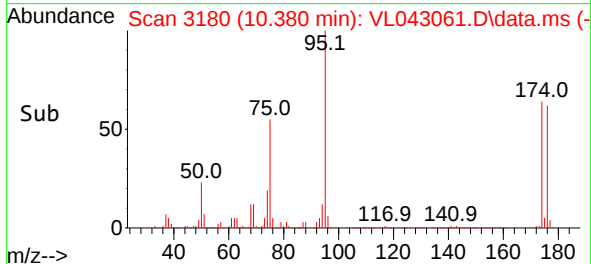
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 288219
Ion Ratio Lower Upper
95 100
174 65.1 52.3 78.5
175 4.9 3.8 5.8

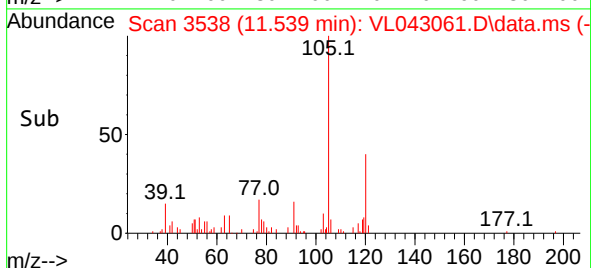
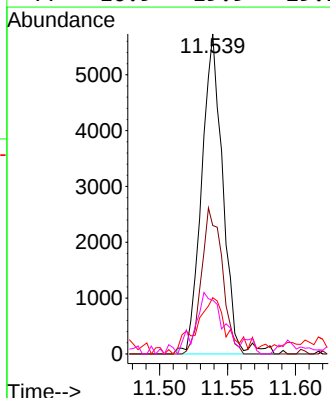
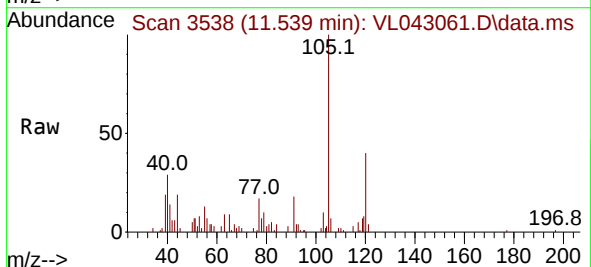
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.106 ppbv m
RT: 11.539 min Scan# 3538
Delta R.T. 0.016 min
Lab File: VL043061.D
Acq: 08 Oct 2025 13:23

Tgt Ion:105 Resp: 6201
Ion Ratio Lower Upper
105 100
120 40.1 39.7 59.5
91 17.6 56.5 84.7#
77 16.9 19.9 29.9#



Report of Analysis

Client:	GFE LLC	Date Collected:	10/07/25
Project:	74-16 Cypress Hill St, Glendale NY	Date Received:	10/07/25
Client Sample ID:	OA1	SDG No.:	Q3306
Lab Sample ID:	Q3306-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043063.D	1		10/08/25 14:32	VL100825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
142-82-5	Heptane	0.17	0.70	U	0.70	2.05
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34
71-43-2	Benzene	0.12	0.38	J	0.26	1.60
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
108-88-3	Toluene	0.19	0.72	J	0.60	1.88
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52
110-54-3	Hexane	0.29	1.02	J	0.56	1.76
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	9.70			65 - 135	97% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	183000		2.787		
540-36-3	1,4-Difluorobenzene	487000		3.959		
3114-55-4	Chlorobenzene-d5	384000		8.882		

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\VL100825\
 Data File : VL043063.D
 Acq On : 08 Oct 2025 14:32
 Operator : SY/MD
 Sample : Q3306-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:18:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

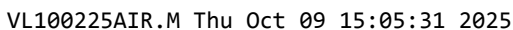
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

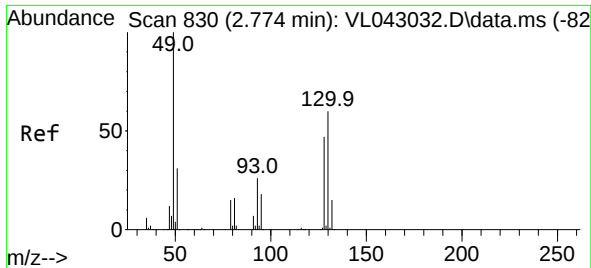
Internal Standards						
1) Bromochloromethane	2.787	49	182962	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.959	114	486916	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.882	117	383740	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	267192	9.665	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	13758	0.446	ppbv	98
3) Chlorodifluoromethane	1.476	51	6108m	0.205	ppbv	
4) Chloromethane	1.535	50	4992	0.443	ppbv	100
9) Propene	1.486	41	6882	0.572	ppbv	94
11) Trichlorofluoromethane	1.878	101	6436m	0.203	ppbv	
13) Ethanol	1.722	45	28304	63.667	ppbv	92
15) Acetone	1.836	43	100511	3.923	ppbv	98
19) Isopropyl Alcohol	1.887	45	18668	1.521	ppbv #	1
20) Methylene Chloride	2.062	84	8621	0.771	ppbv	93
26) Hexane	2.829	57	7215	0.292	ppbv #	43
34) 2-Butanone	2.561	43	4940	0.150	ppbv	93
35) Carbon Tetrachloride	3.761	117	2740	0.068	ppbv #	86
36) Benzene	3.661	78	5492	0.118	ppbv	95
44) 2,2,4-Trimethylpentane	4.642	57	8787m	0.118	ppbv	
53) Toluene	6.927	91	9070m	0.193	ppbv	
59) m/p-Xylene	9.529	91	5028m	0.100	ppbv	

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

Manual Integrations

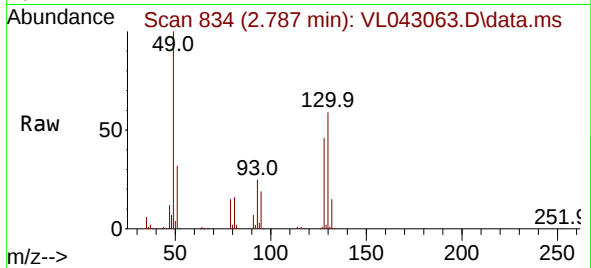
Quant Time: Oct 09 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 81
Delta R.T. 0.013 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

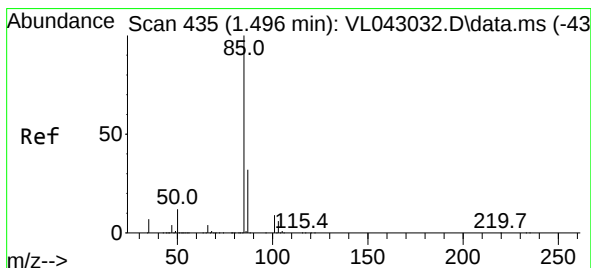
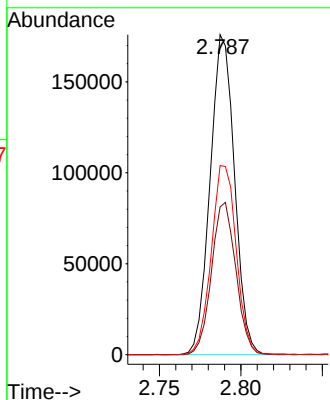
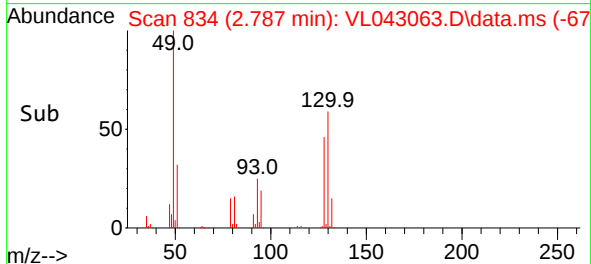
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 182962
Ion Ratio Lower Upper
49 100
128 47.4 24.1 72.2
130 60.5 31.4 94.3

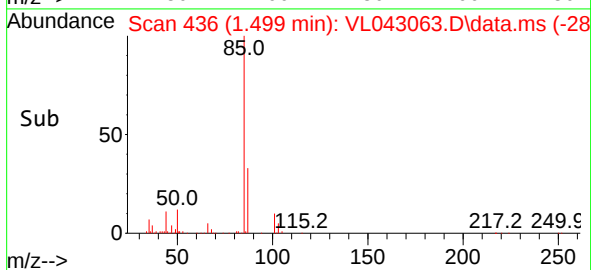
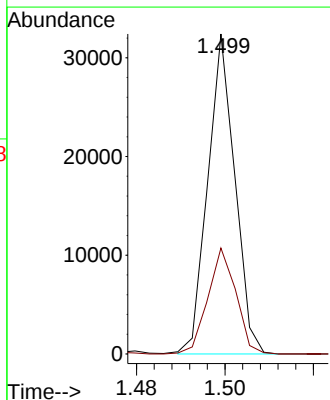
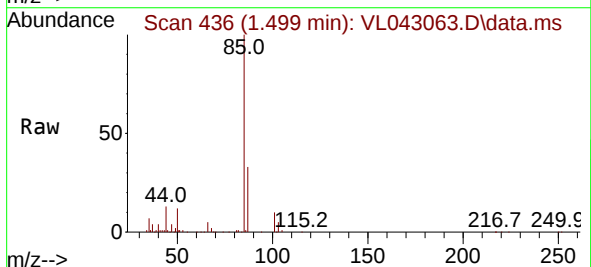
Manual Integrations
APPROVED

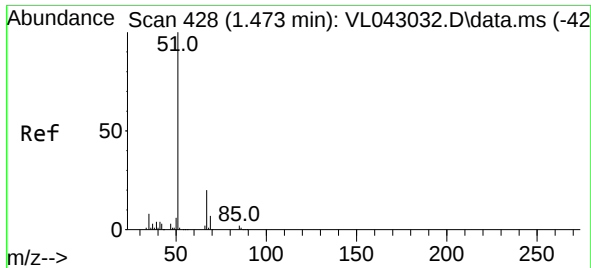
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.446 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.004 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 85 Resp: 13758
Ion Ratio Lower Upper
85 100
87 33.1 25.8 38.6





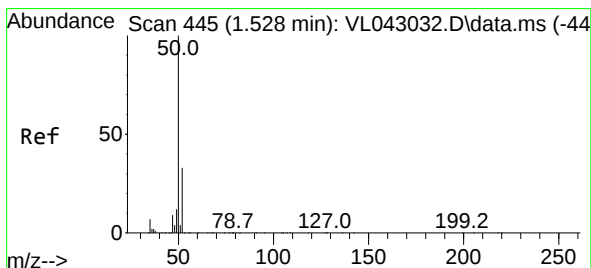
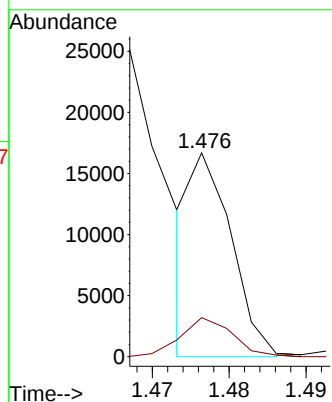
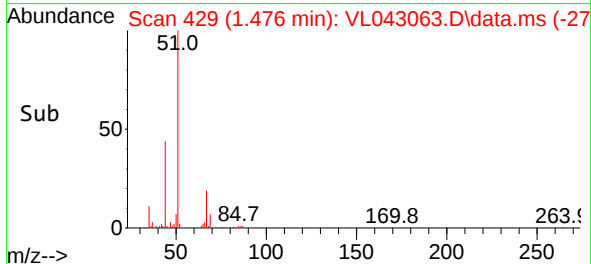
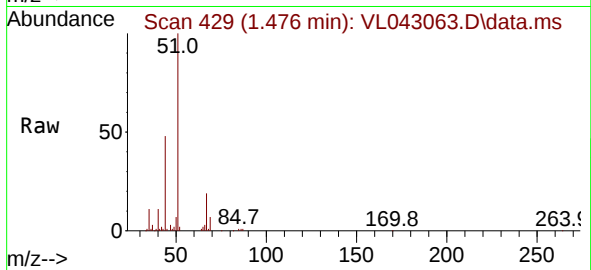
#3
Chlorodifluoromethane
Concen: 0.205 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. 0.004 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 6108
Ion Ratio Lower Upper
51 100
67 25.0 15.1 22.75

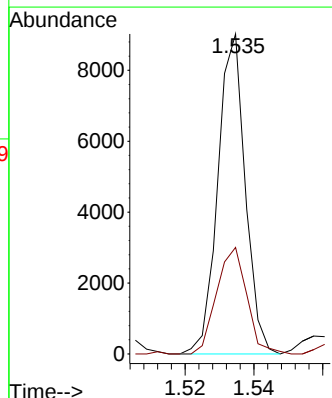
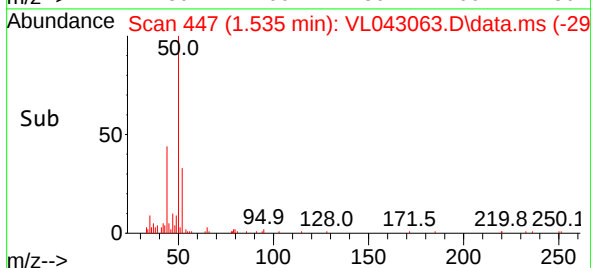
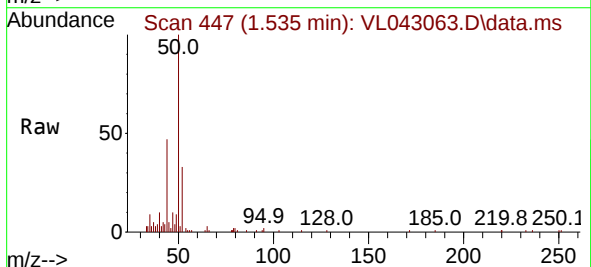
Manual Integrations
APPROVED

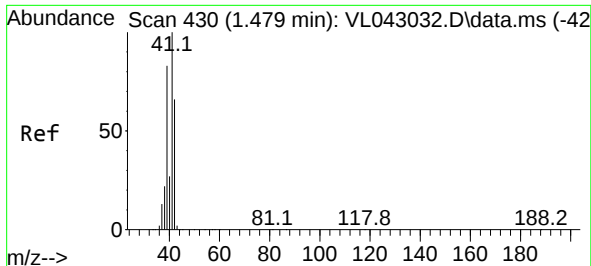
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#4
Chloromethane
Concen: 0.443 ppbv
RT: 1.535 min Scan# 447
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 50 Resp: 4992
Ion Ratio Lower Upper
50 100
52 32.5 26.2 39.2





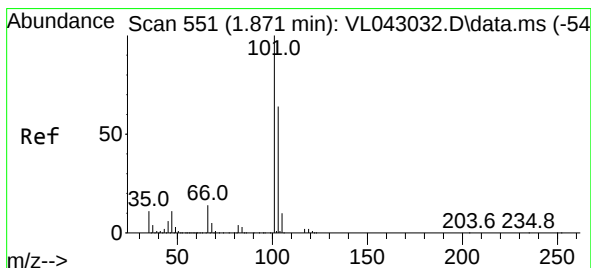
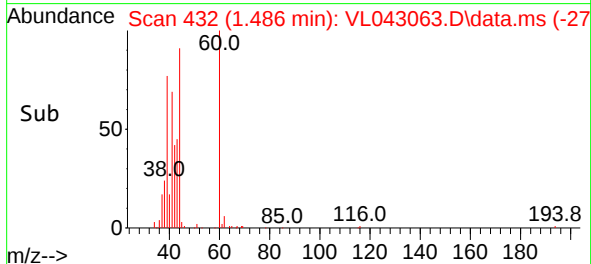
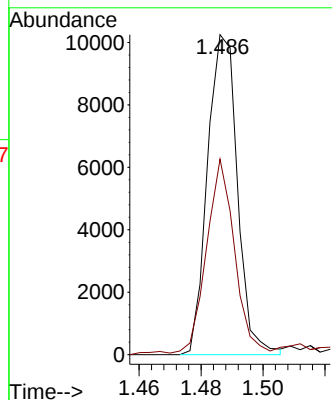
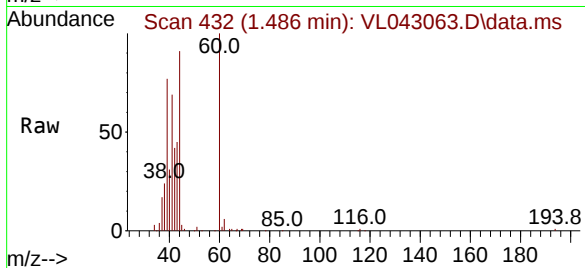
#9
Propene
Concen: 0.572 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 41 Resp: 688
Ion Ratio Lower Upper
41 100
42 61.8 53.3 79.9

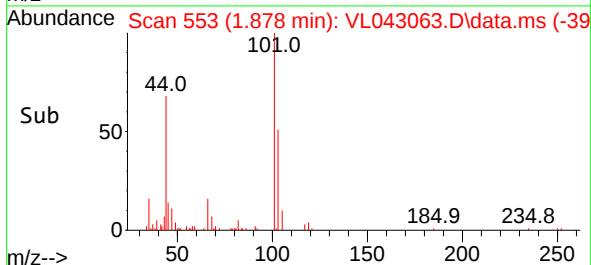
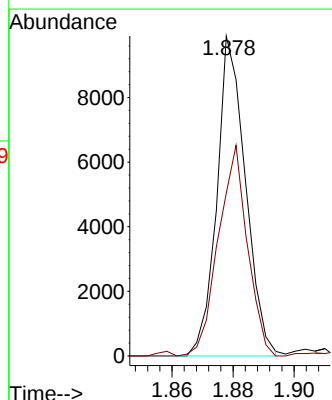
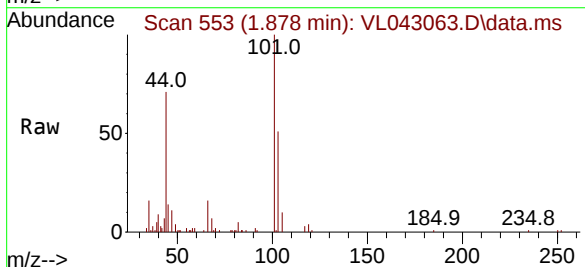
Manual Integrations
APPROVED

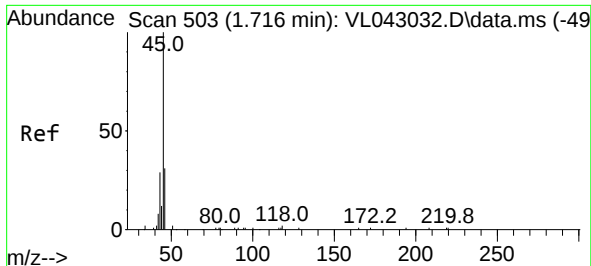
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#11
Trichlorofluoromethane
Concen: 0.203 ppbv m
RT: 1.878 min Scan# 553
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

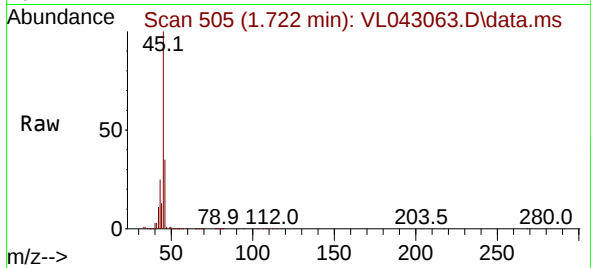
Tgt Ion:101 Resp: 6436
Ion Ratio Lower Upper
101 100
103 50.9 51.1 76.7#





#13
Ethanol
Concen: 63.667 ppbv
RT: 1.722 min Scan# 50
Delta R.T. 0.006 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

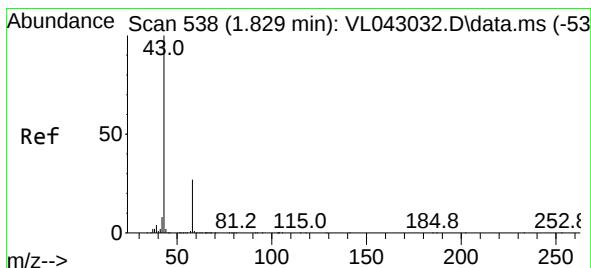
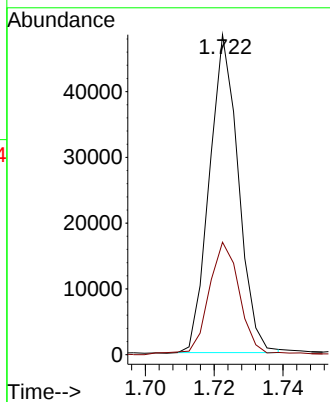
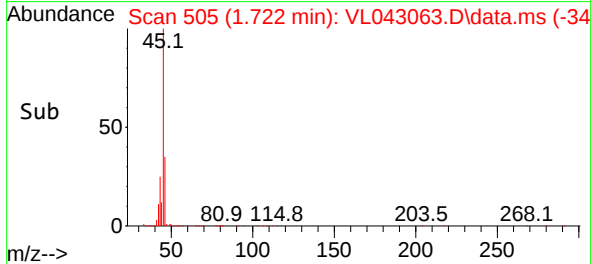
Instrument :
MSVOA_L
ClientSampleId :
OA1



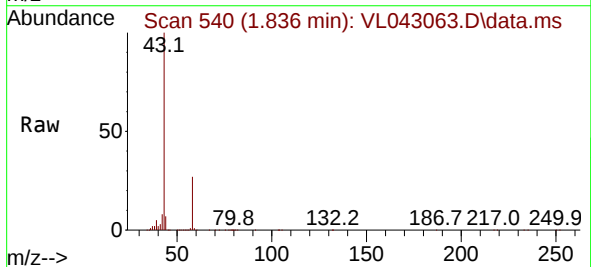
Tgt Ion: 45 Resp: 28304
Ion Ratio Lower Upper
45 100
46 39.5 17.8 71.4

Manual Integrations
APPROVED

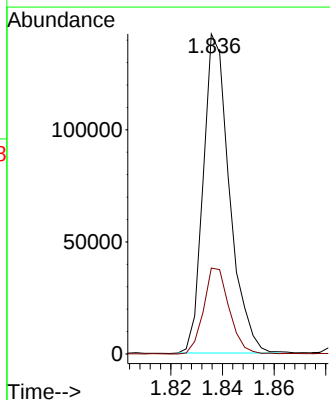
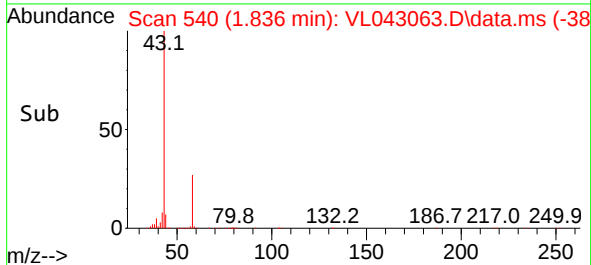
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

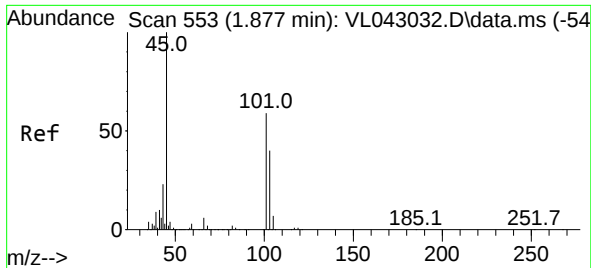


#15
Acetone
Concen: 3.923 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32



Tgt Ion: 43 Resp: 100511
Ion Ratio Lower Upper
43 100
58 26.6 22.2 33.4





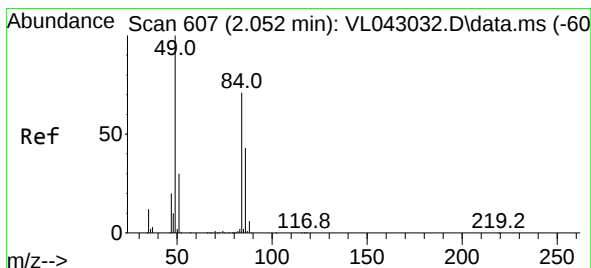
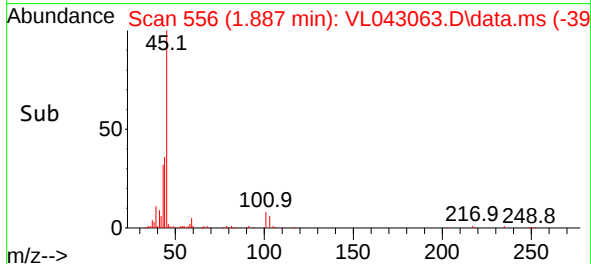
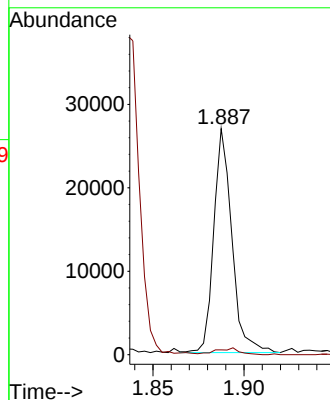
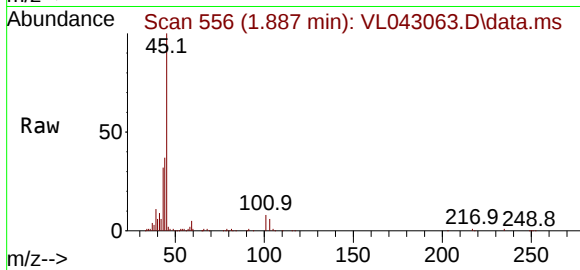
#19
Isopropyl Alcohol
Concen: 1.521 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.010 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 1866
Ion Ratio Lower Upper
45 100
58 143.3 42.3 63.5

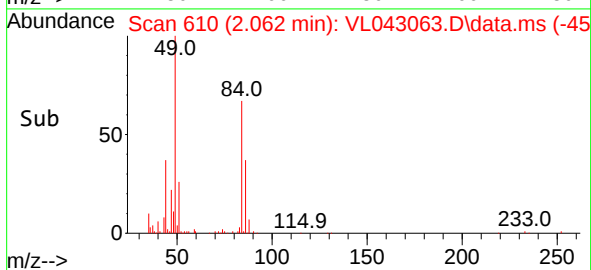
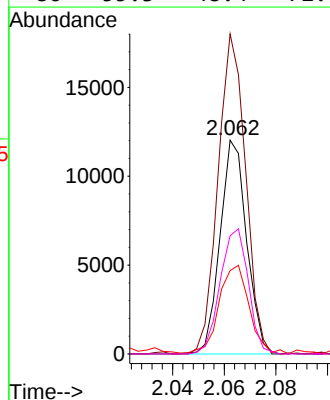
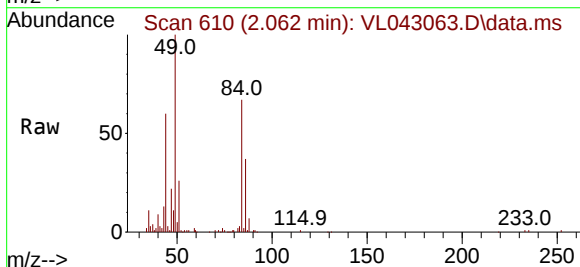
Manual Integrations
APPROVED

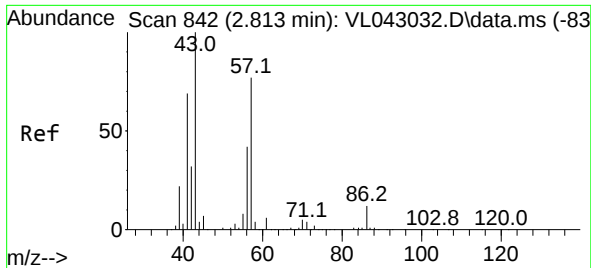
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.771 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.010 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 84 Resp: 8621
Ion Ratio Lower Upper
84 100
49 149.7 112.5 168.7
51 38.6 34.2 51.2
86 55.3 48.4 72.6





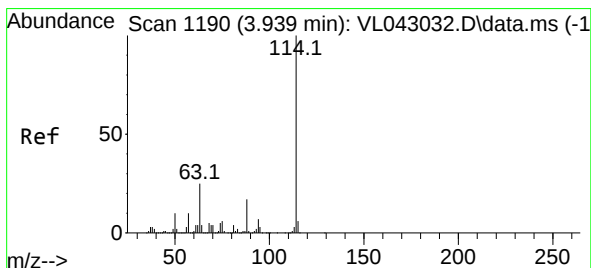
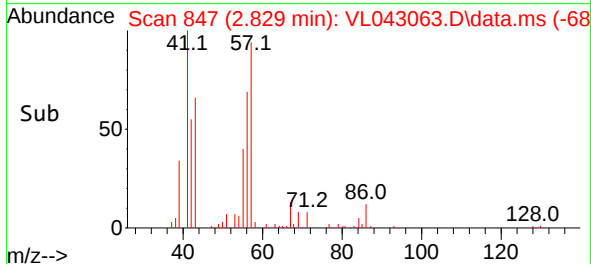
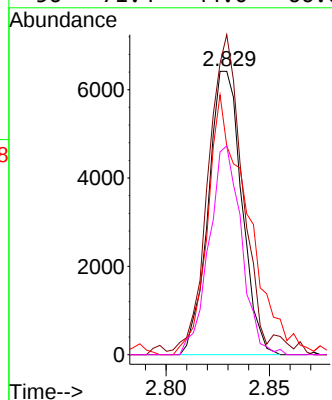
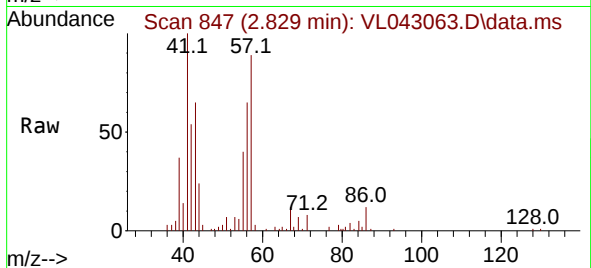
#26
Hexane
Concen: 0.292 ppbv
RT: 2.829 min Scan# 842
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 7215
Ion Ratio Lower Upper
57 100
41 120.7 76.1 114.1
43 117.2 201.4 302.0
56 71.4 44.0 66.0

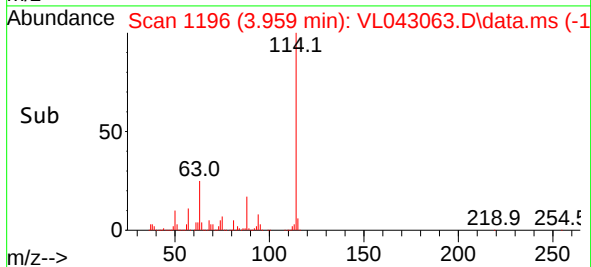
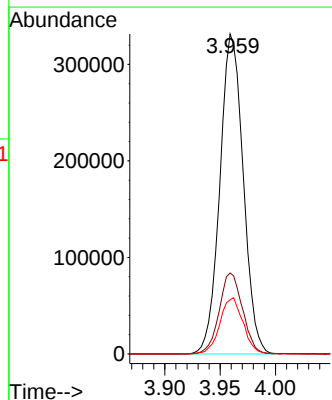
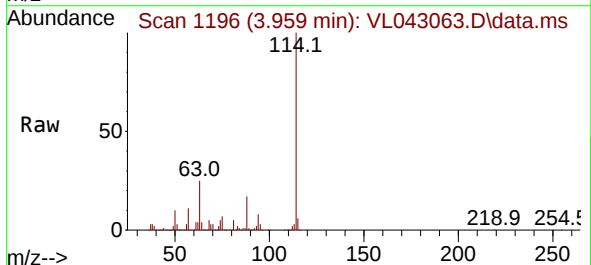
Manual Integrations
APPROVED

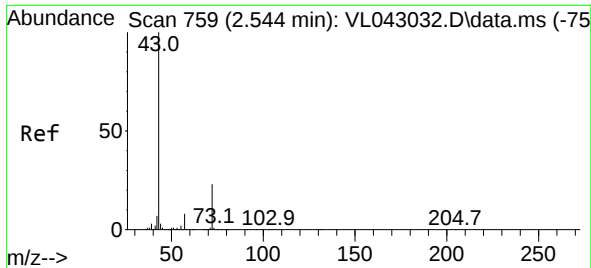
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.020 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion:114 Resp: 486916
Ion Ratio Lower Upper
114 100
63 25.4 19.4 29.2
88 17.4 13.9 20.9





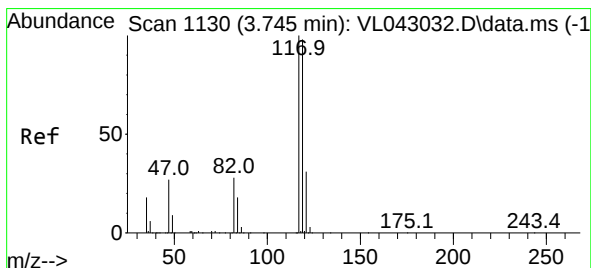
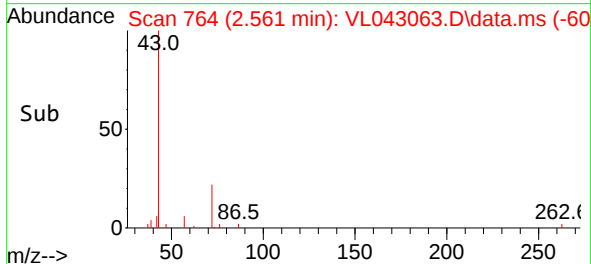
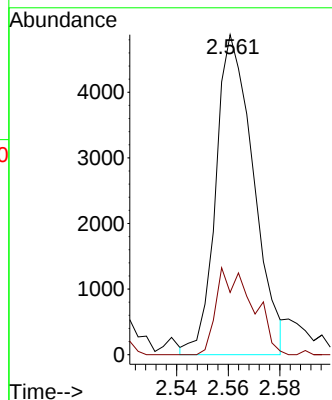
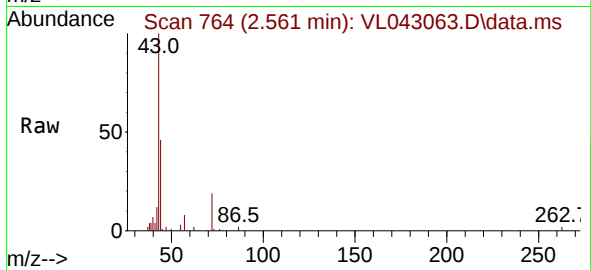
#34
2-Butanone
Concen: 0.150 ppbv
RT: 2.561 min Scan# 71
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 4940
Ion Ratio Lower Upper
43 100
72 26.5 18.4 27.6

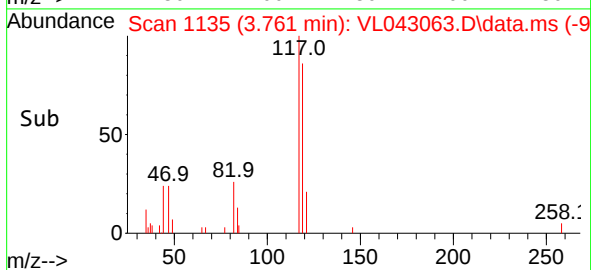
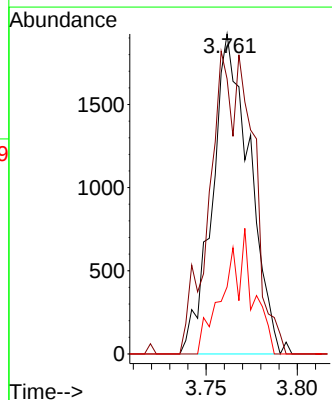
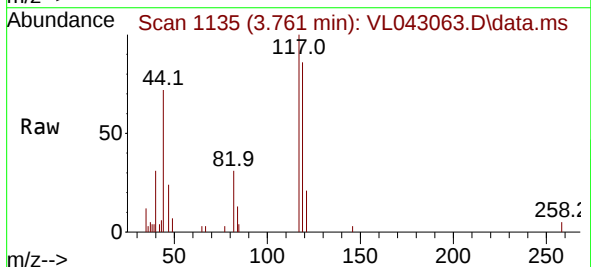
Manual Integrations
APPROVED

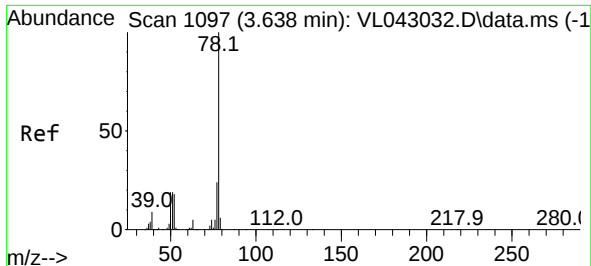
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv
RT: 3.761 min Scan# 1135
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

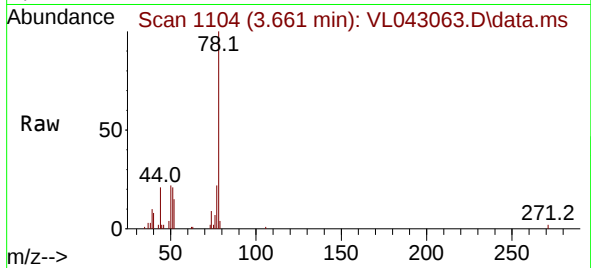
Tgt Ion:117 Resp: 2740
Ion Ratio Lower Upper
117 100
119 86.0 78.2 117.4
121 20.9 24.8 37.2#





#36
Benzene
Concen: 0.118 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.023 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

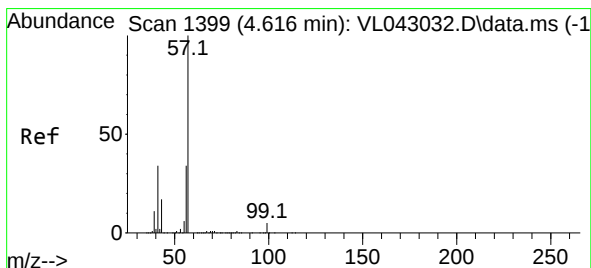
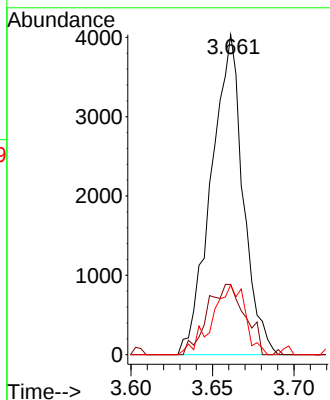
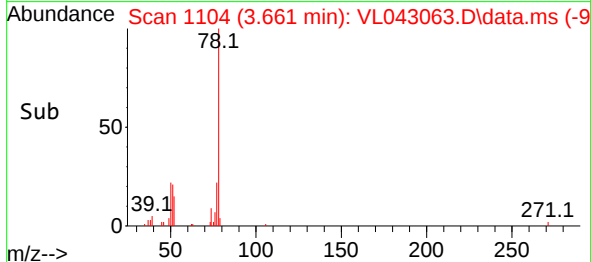
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 78 Resp: 5492
Ion Ratio Lower Upper
78 100
77 21.9 19.2 28.8
50 21.8 14.9 22.3

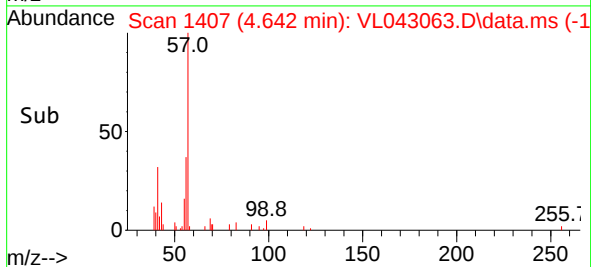
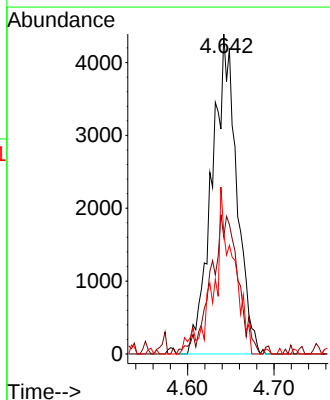
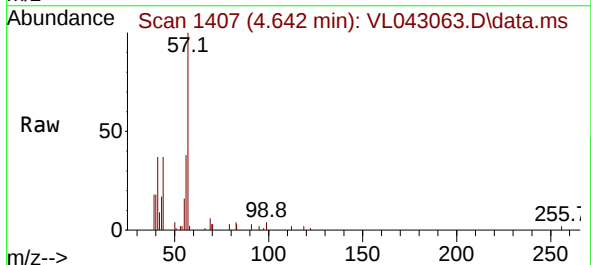
Manual Integrations
APPROVED

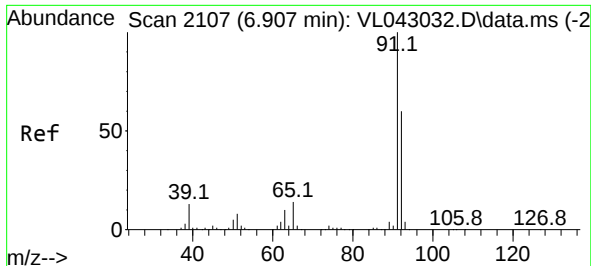
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#44
2,2,4-Trimethylpentane
Concen: 0.118 ppbv m
RT: 4.642 min Scan# 1407
Delta R.T. 0.026 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

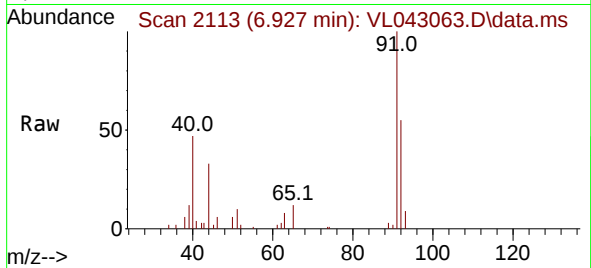
Tgt Ion: 57 Resp: 8787
Ion Ratio Lower Upper
57 100
41 48.1 27.0 40.4#
56 42.1 26.0 39.0#





#53
Toluene
Concen: 0.193 ppbv m
RT: 6.927 min Scan# 2107
Delta R.T. 0.020 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

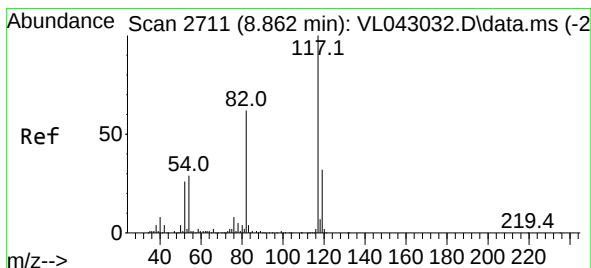
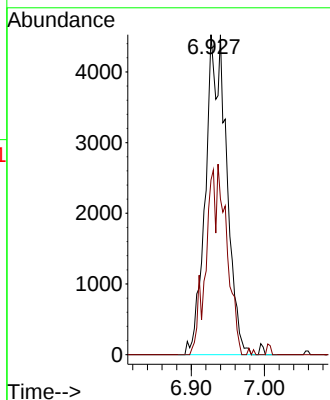
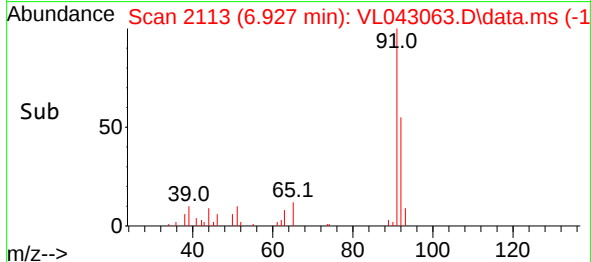
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 91 Resp: 9070
Ion Ratio Lower Upper
91 100
92 57.8 47.8 71.6

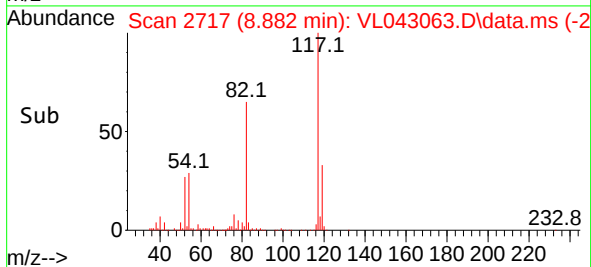
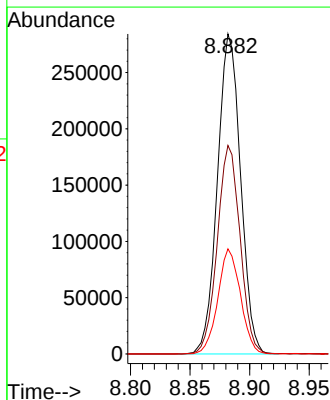
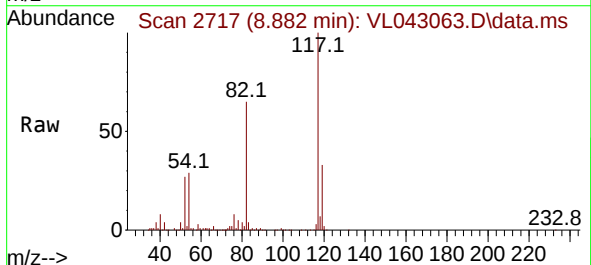
Manual Integrations
APPROVED

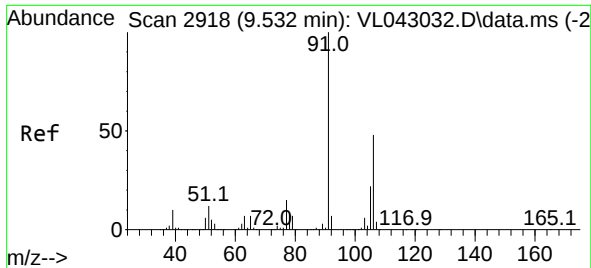
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.020 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion:117 Resp: 383740
Ion Ratio Lower Upper
117 100
82 64.2 53.0 79.6
119 32.0 25.4 38.2





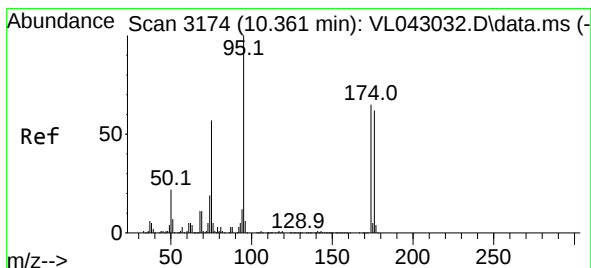
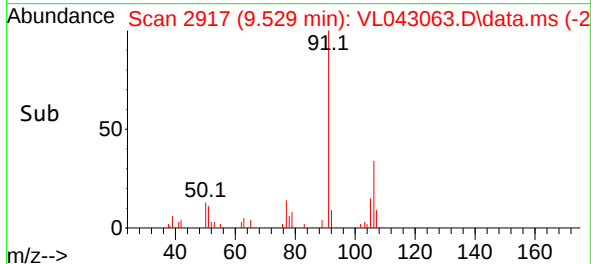
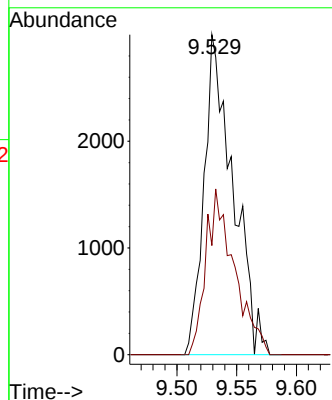
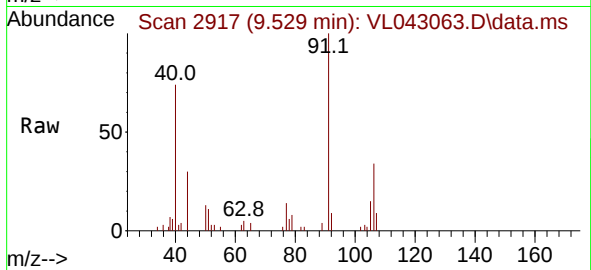
#59
m/p-Xylene
Concen: 0.100 ppbv m
RT: 9.529 min Scan# 2918
Delta R.T. -0.003 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 5028
Ion Ratio Lower Upper
91 100
106 0.0 37.5 56.3

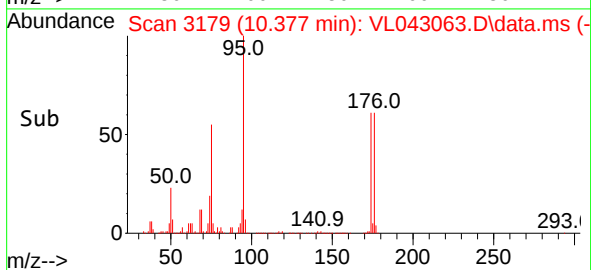
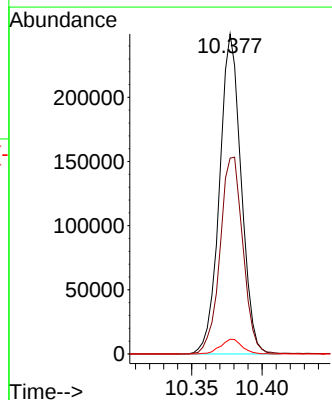
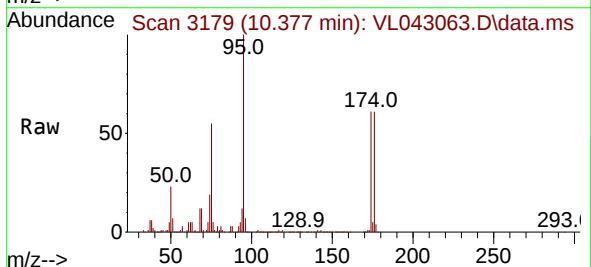
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.665 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.016 min
Lab File: VL043063.D
Acq: 08 Oct 2025 14:32

Tgt Ion: 95 Resp: 267192
Ion Ratio Lower Upper
95 100
174 65.6 52.3 78.5
175 4.6 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	10/07/25
Project:	74-16 Cypress Hill St, Glendale NY	Date Received:	10/07/25
Client Sample ID:	SV1	SDG No.:	Q3306
Lab Sample ID:	Q3306-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043067.D	5		10/08/25 20:30	VL100825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.13	0.33	U	0.33	0.38
142-82-5	Heptane	1.40	5.74	J	3.48	10.3
75-34-3	1,1-Dichloroethane	0.65	2.63	U	2.63	10.1
110-82-7	Cyclohexane	1.10	3.79	U	3.79	8.61
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	U	1.98	9.91
71-55-6	1,1,1-Trichloroethane	0.080	0.44	U	0.44	0.82
540-84-1	2,2,4-Trimethylpentane	0.70	3.27	U	3.27	11.7
71-43-2	Benzene	0.40	1.28	U	1.28	7.99
79-01-6	Trichloroethene	0.12	0.64	U	0.64	0.81
108-88-3	Toluene	3.70	13.9		3.01	9.42
127-18-4	Tetrachloroethene	2.30	15.6		0.54	1.02
100-41-4	Ethyl Benzene	2.30	9.99	J	4.13	10.9
179601-23-1	m/p-Xylene	7.80	33.9		9.12	21.7
95-47-6	o-Xylene	3.90	16.9		4.78	10.9
108-67-8	1,3,5-Trimethylbenzene	1.90	9.34	J	4.42	12.3
95-63-6	1,2,4-Trimethylbenzene	2.70	13.3		4.42	12.3
91-20-3	Naphthalene	0.070	0.37	U	0.37	2.62
110-54-3	Hexane	10.4	36.6		2.82	8.81
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	191000		2.79		
540-36-3	1,4-Difluorobenzene	520000		3.959		
3114-55-4	Chlorobenzene-d5	486000		8.875		

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\VL100825\
 Data File : VL043067.D
 Acq On : 08 Oct 2025 20:30
 Operator : SY/MD
 Sample : Q3306-03 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:22:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	191364	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.959	114	519787	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.875	117	486482	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	362344	10.339	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.400%
Target Compounds						
						Qvalue
9) Propene	1.476	41	2244m	0.178	ppbv	
10) Heptane	4.981	43	8551m	0.276	ppbv	
13) Ethanol	1.722	45	4758m	9.167	ppbv	
15) Acetone	1.839	43	25441	0.949	ppbv	95
20) Methylene Chloride	2.068	84	4451m	0.381	ppbv	
26) Hexane	2.829	57	53836	2.082	ppbv #	34
34) 2-Butanone	2.560	43	5964	0.169	ppbv	98
51) 2-Hexanone	7.428	43	29648	0.968	ppbv #	64
52) Tetrachloroethene	8.218	164	8567	0.466	ppbv	87
53) Toluene	6.930	91	37247	0.743	ppbv	95
58) Ethyl Benzene	9.348	91	35188	0.467	ppbv	93
59) m/p-Xylene	9.526	91	99454	1.565	ppbv	98
60) o-Xylene	9.956	91	49872	0.788	ppbv	97
62) Isopropylbenzene	10.536	105	13707	0.141	ppbv	97
67) sec-Butylbenzene	11.762	105	19444	0.161	ppbv #	63
73) 1,3,5-Trimethylbenzene	11.199	105	24240	0.372	ppbv	94
74) 1,2,4-Trimethylbenzene	11.529	105	39190	0.533	ppbv #	58

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

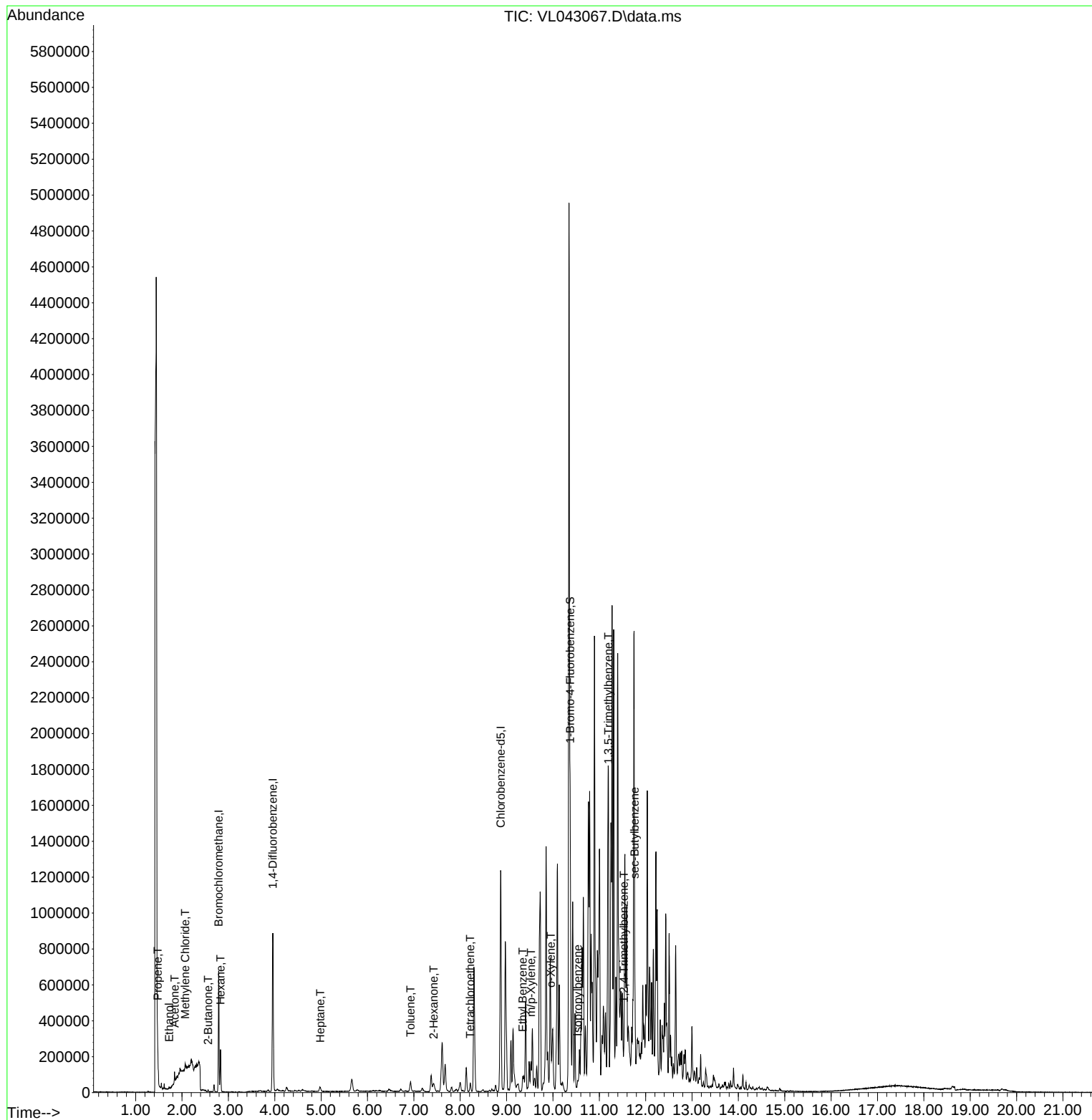
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043067.D
Acq On : 08 Oct 2025 20:30
Operator : SY/MD
Sample : Q3306-03 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

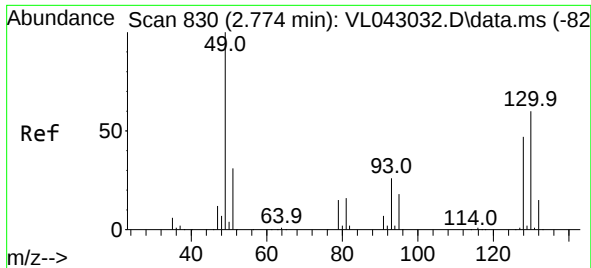
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 10/09/2025
Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:22:53 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration





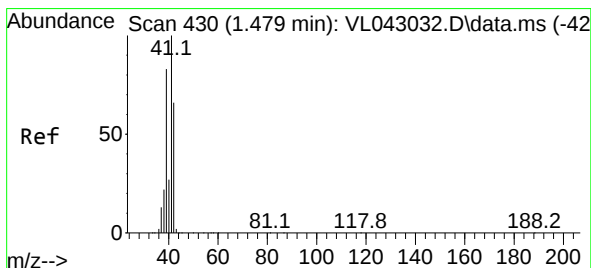
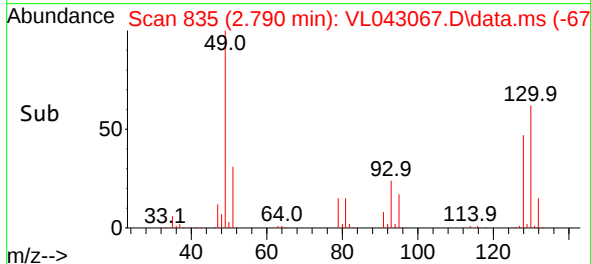
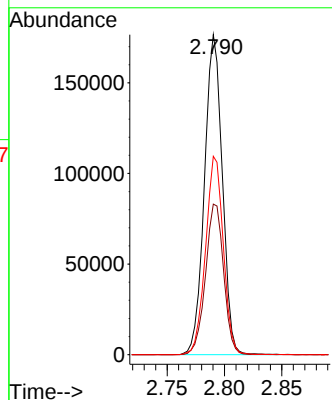
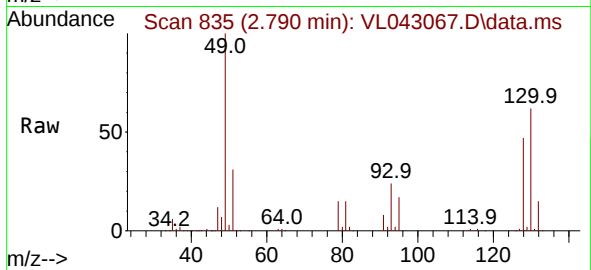
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.016 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 191364
Ion Ratio Lower Upper
49 100
128 47.8 24.1 72.2
130 61.7 31.4 94.3

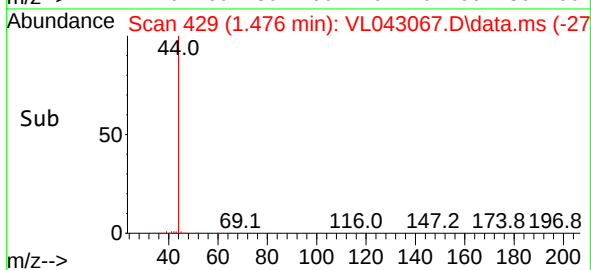
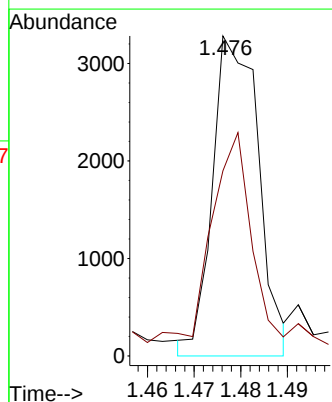
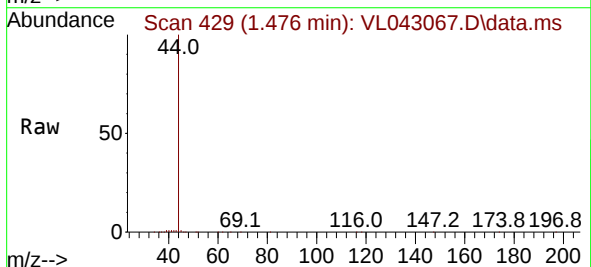
Manual Integrations
APPROVED

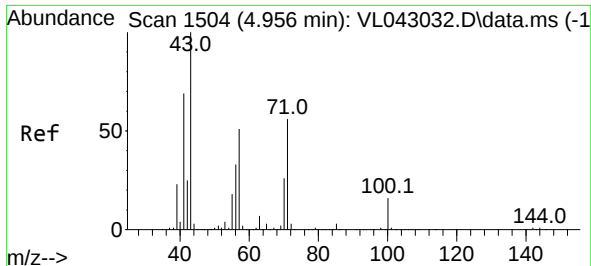
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#9
Propene
Concen: 0.178 ppbv m
RT: 1.476 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

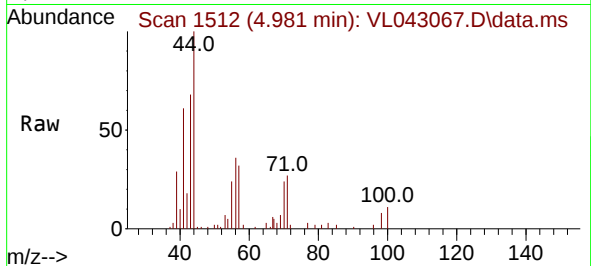
Tgt Ion: 41 Resp: 2244
Ion Ratio Lower Upper
41 100
42 87.3 53.3 79.9#





#10
Heptane
Concen: 0.276 ppbv m
RT: 4.981 min Scan# 11
Delta R.T. 0.026 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

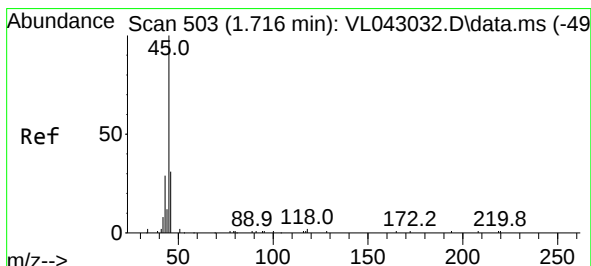
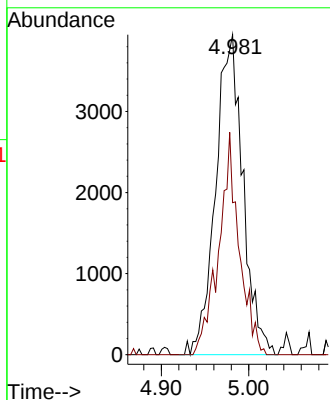
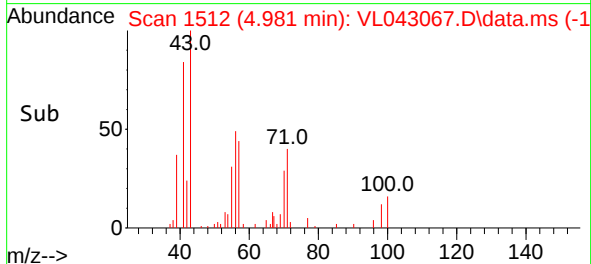
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 855
Ion Ratio Lower Upper
43 100
57 52.3 40.3 60.5

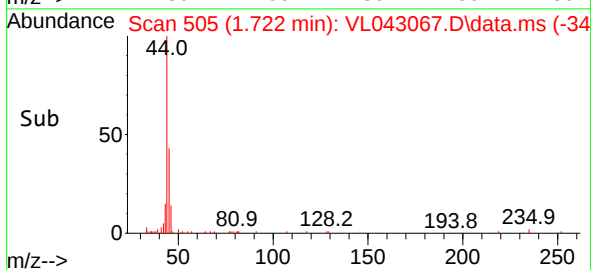
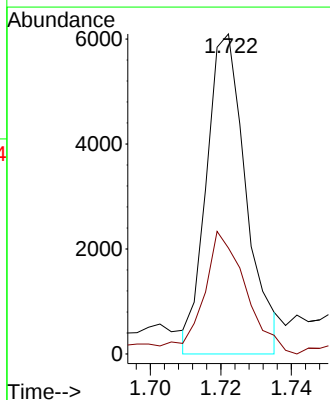
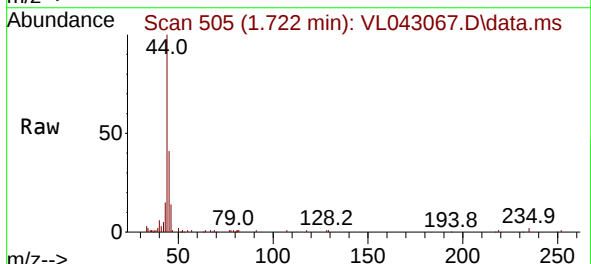
Manual Integrations
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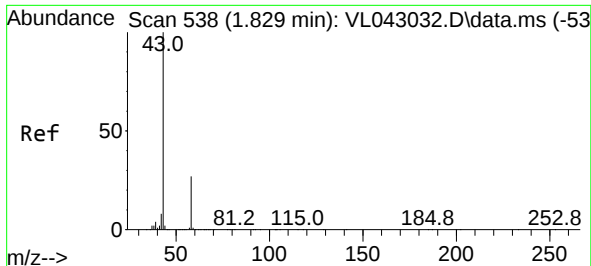
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#13
Ethanol
Concen: 9.167 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

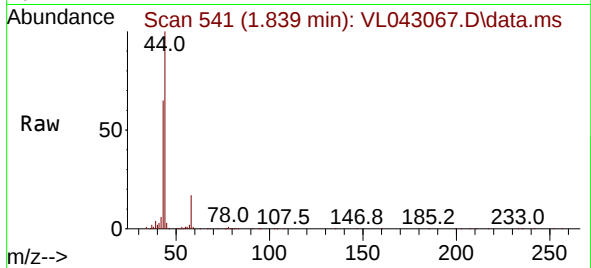
Tgt Ion: 45 Resp: 4758
Ion Ratio Lower Upper
45 100
46 5640.9 17.8 71.4#





#15
Acetone
Concen: 0.949 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.010 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

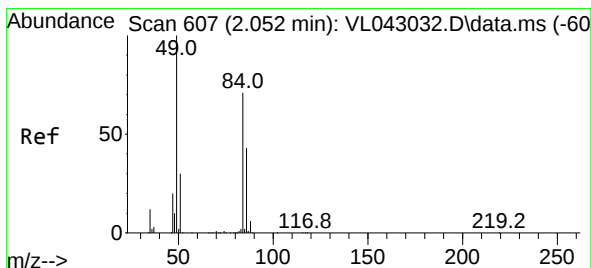
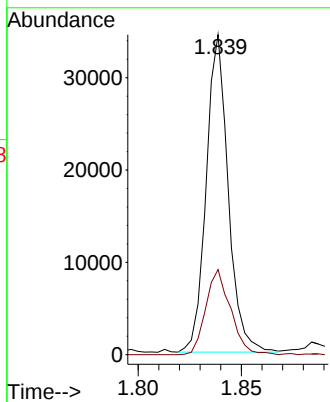
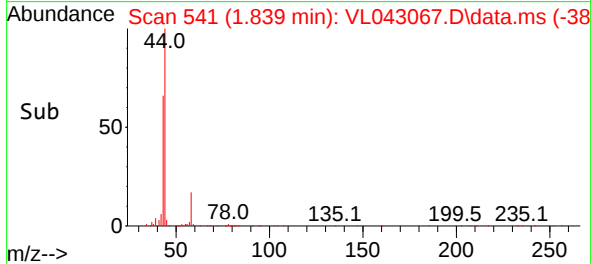
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 2544
Ion Ratio Lower Upper
43 100
58 30.5 22.2 33.4

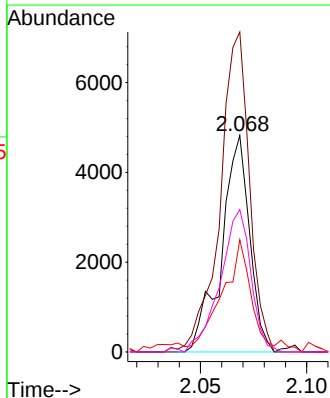
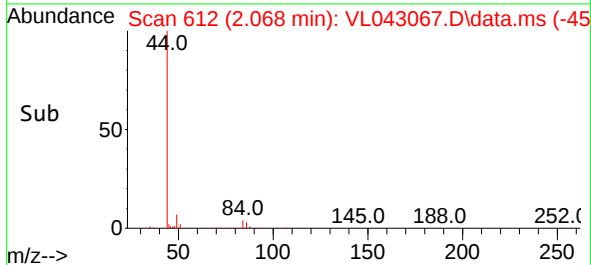
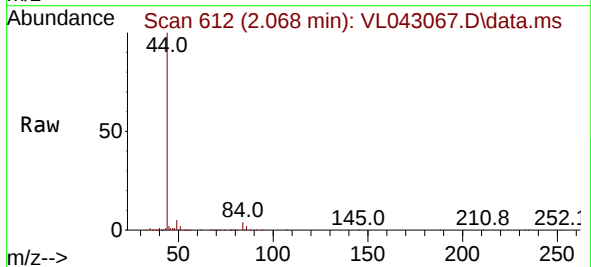
Manual Integrations
APPROVED

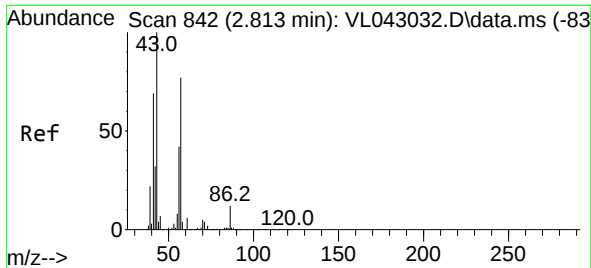
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#20
Methylene Chloride
Concen: 0.381 ppbv m
RT: 2.068 min Scan# 612
Delta R.T. 0.016 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

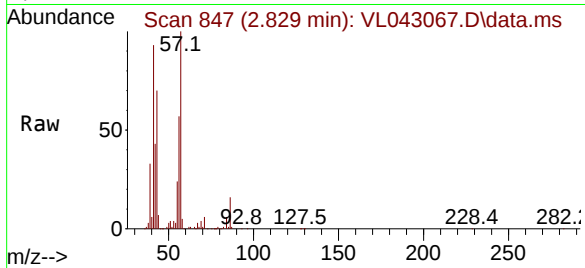
Tgt Ion: 84 Resp: 4451
Ion Ratio Lower Upper
84 100
49 147.8 112.5 168.7
51 51.8 34.2 51.2#
86 65.8 48.4 72.6





#26
Hexane
Concen: 2.082 ppbv
RT: 2.829 min Scan# 84
Delta R.T. 0.016 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

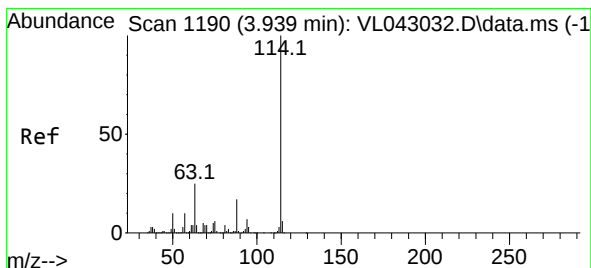
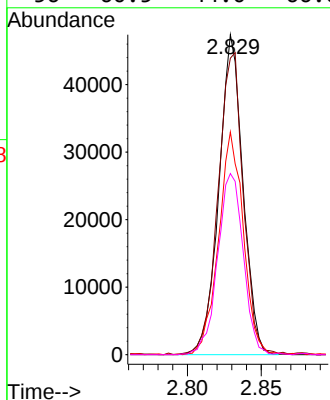
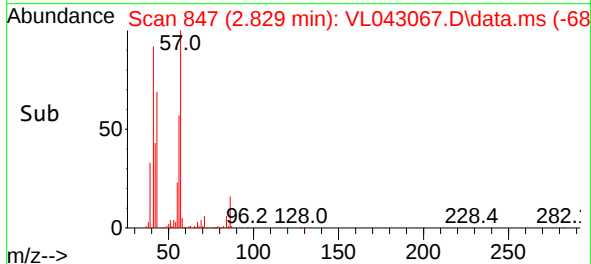
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 53830
Ion Ratio Lower Upper
57 100
41 99.5 76.1 114.1
43 71.8 201.4 302.0
56 60.5 44.0 66.0

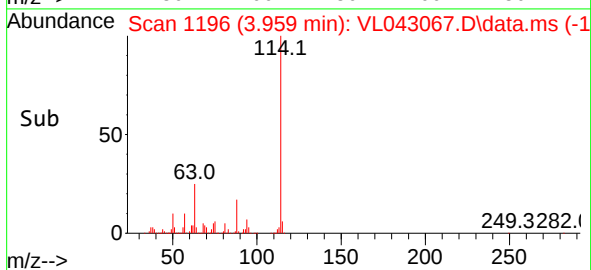
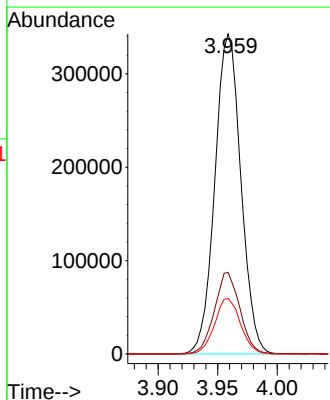
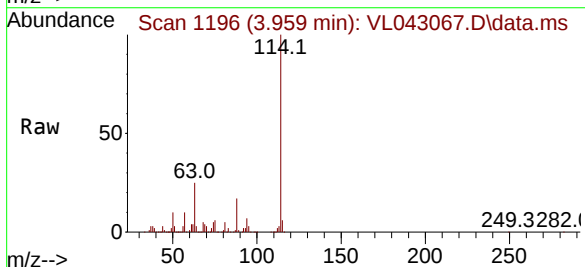
Manual Integrations
APPROVED

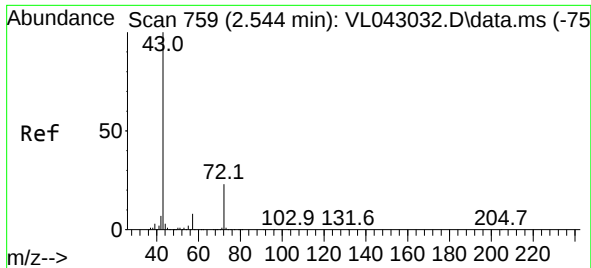
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. 0.019 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Tgt Ion:114 Resp: 519787
Ion Ratio Lower Upper
114 100
63 25.1 19.4 29.2
88 17.2 13.9 20.9





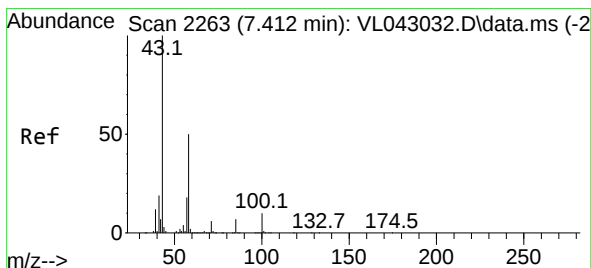
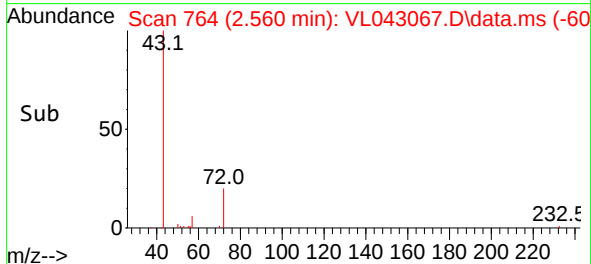
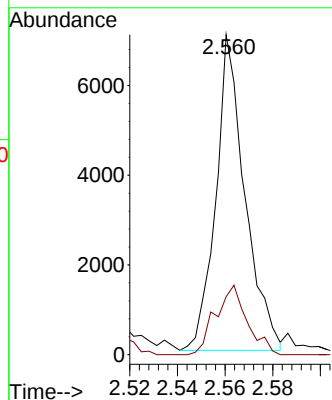
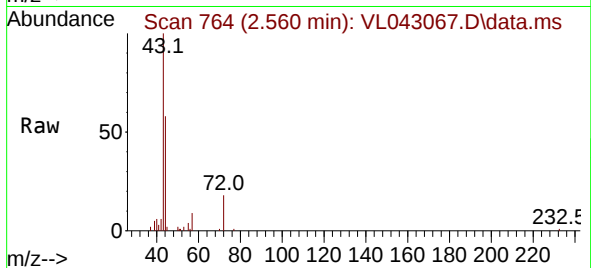
#34
2-Butanone
Concen: 0.169 ppbv
RT: 2.560 min Scan# 759
Delta R.T. 0.016 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 5964
Ion Ratio Lower Upper
43 100
72 24.0 18.4 27.6

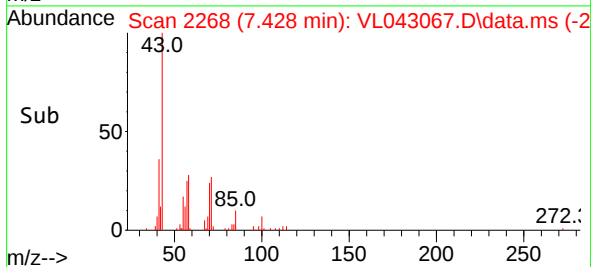
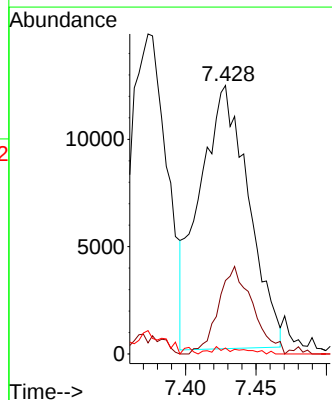
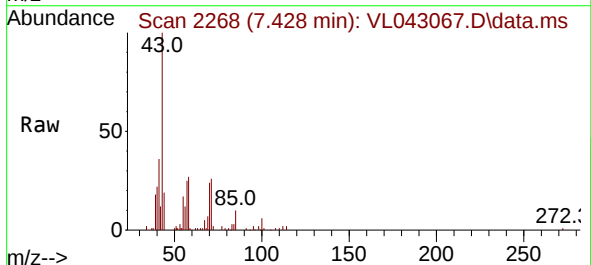
Manual Integrations
APPROVED

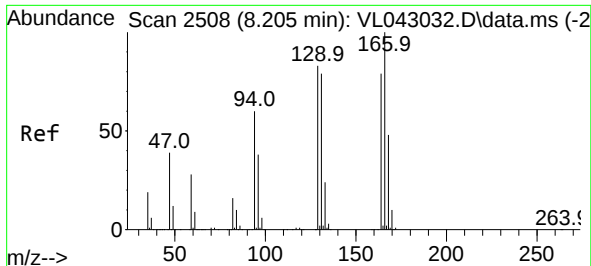
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#51
2-Hexanone
Concen: 0.968 ppbv
RT: 7.428 min Scan# 2268
Delta R.T. 0.016 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

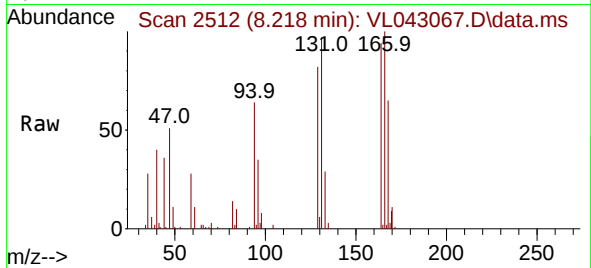
Tgt Ion: 43 Resp: 29648
Ion Ratio Lower Upper
43 100
58 24.0 39.1 58.7#
98 1.6 0.5 0.7#





#52
Tetrachloroethene
Concen: 0.466 ppbv
RT: 8.218 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

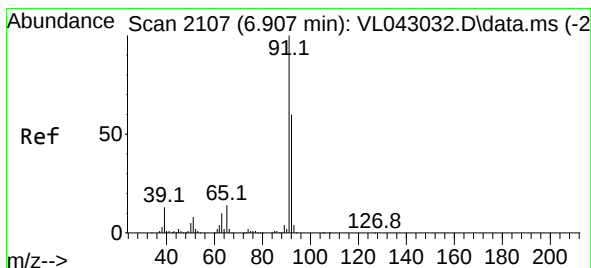
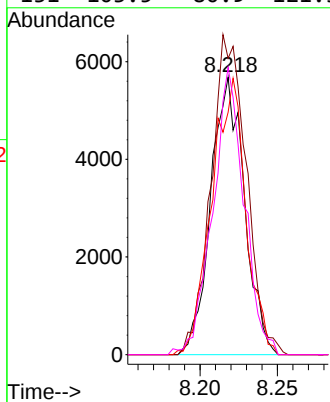
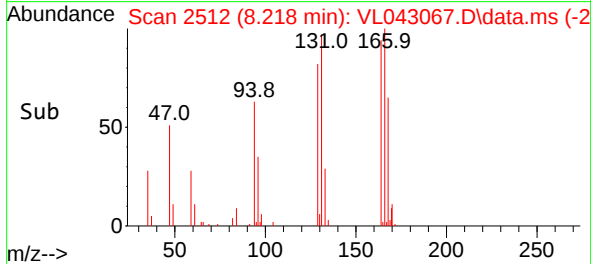
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 856
Ion Ratio Lower Upper
164 100
166 106.8 101.8 152.8
129 87.4 84.5 126.7
131 103.5 80.9 121.3

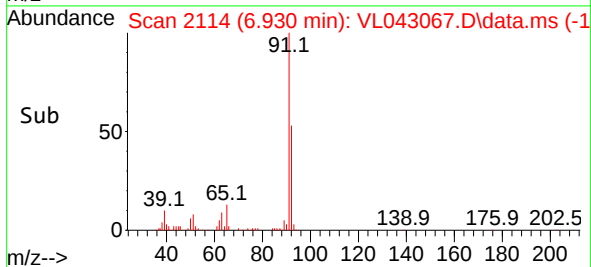
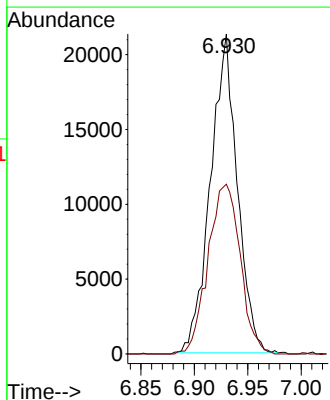
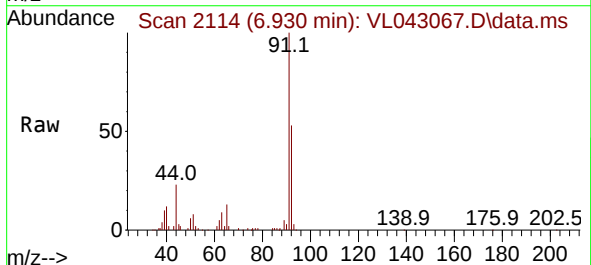
Manual Integrations
APPROVED

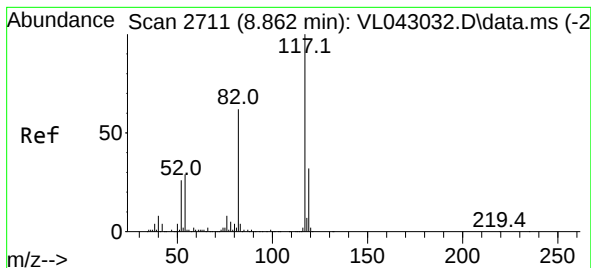
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.743 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.023 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Tgt Ion: 91 Resp: 37247
Ion Ratio Lower Upper
91 100
92 63.8 47.8 71.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL043067.D

Acq: 08 Oct 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:117 Resp: 48648

Ion Ratio Lower Upper

117 100

82 64.6 53.0 79.6

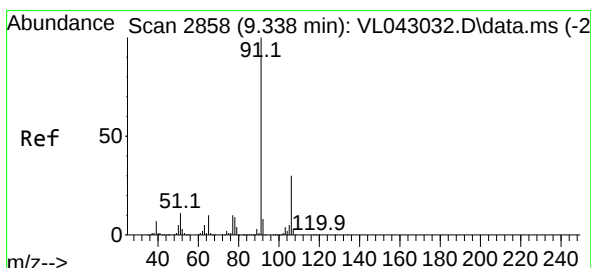
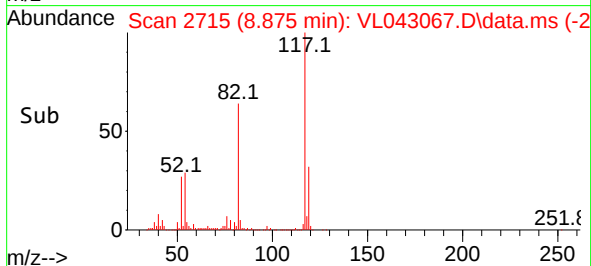
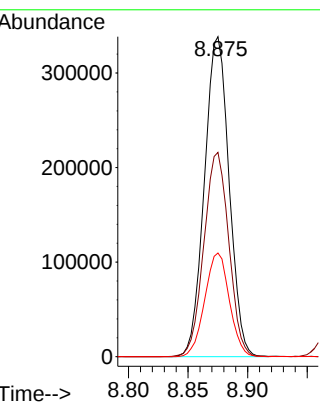
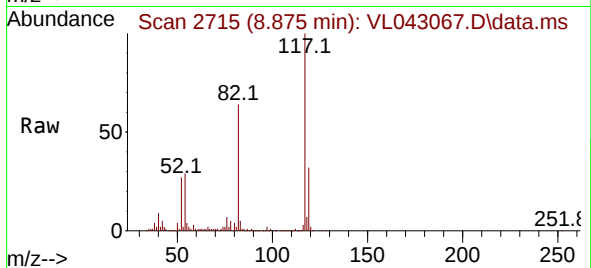
119 32.4 25.4 38.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#58

Ethyl Benzene

Concen: 0.467 ppbv

RT: 9.348 min Scan# 2861

Delta R.T. 0.010 min

Lab File: VL043067.D

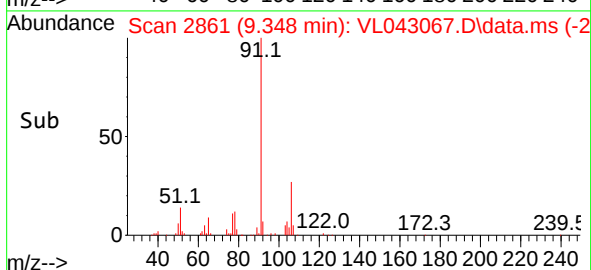
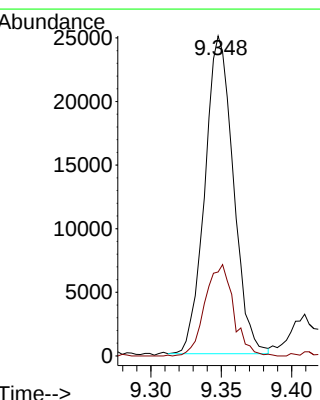
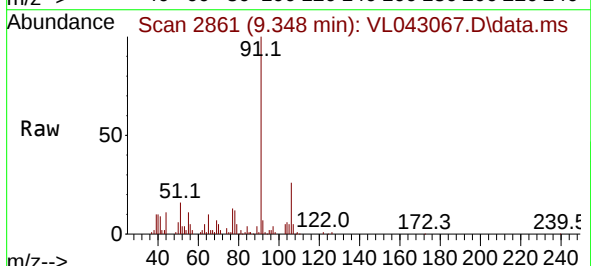
Acq: 08 Oct 2025 20:30

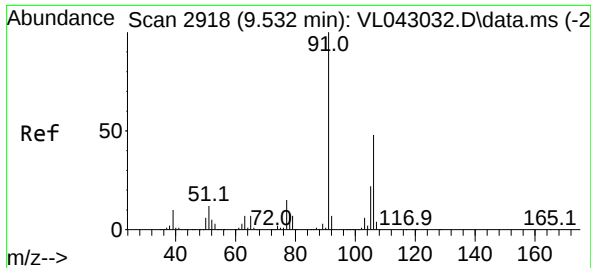
Tgt Ion: 91 Resp: 35188

Ion Ratio Lower Upper

91 100

106 26.2 24.1 36.1





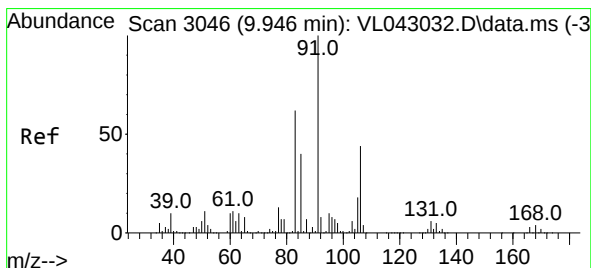
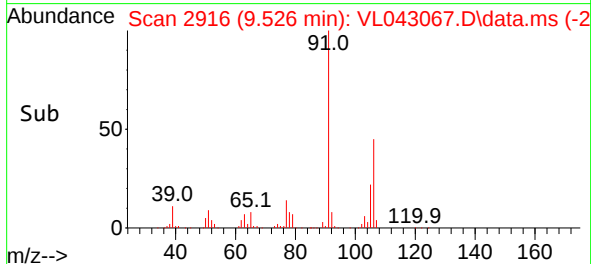
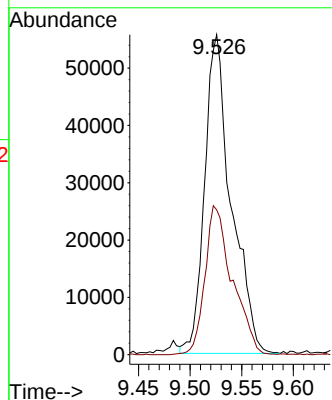
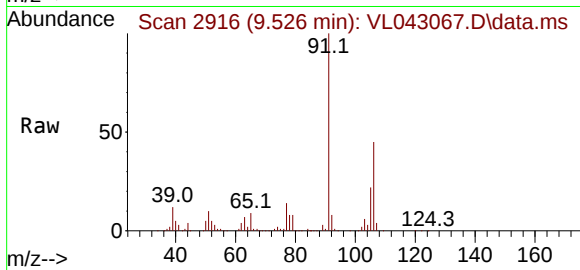
#59
m/p-Xylene
Concen: 1.565 ppbv
RT: 9.526 min Scan# 2918
Delta R.T. -0.006 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 99454
Ion Ratio Lower Upper
91 100
106 48.3 37.5 56.3

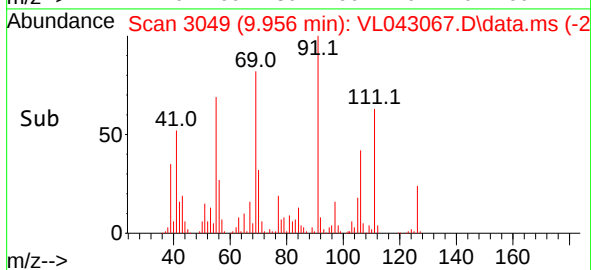
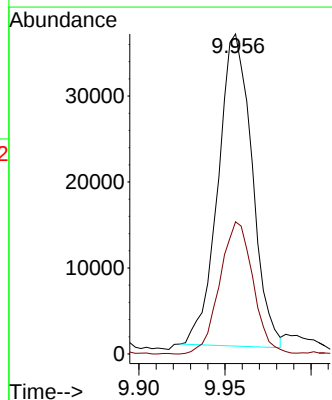
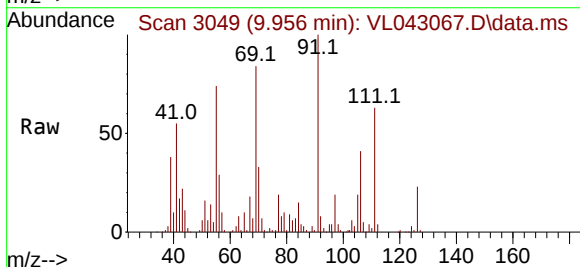
Manual Integrations
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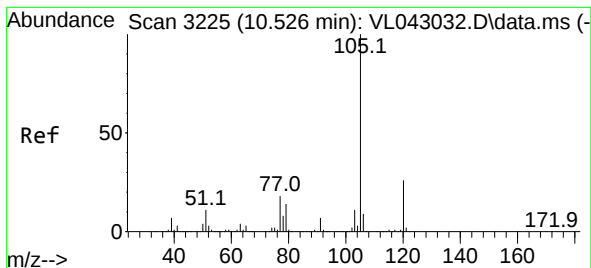
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#60
o-Xylene
Concen: 0.788 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.010 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Tgt Ion: 91 Resp: 49872
Ion Ratio Lower Upper
91 100
106 41.7 21.9 65.5





#62

Isopropylbenzene

Concen: 0.141 ppbv

RT: 10.536 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL043067.D

Acq: 08 Oct 2025 20:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 1370

Ion Ratio Lower Upper

105 100

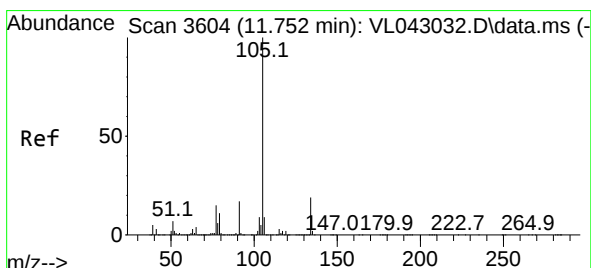
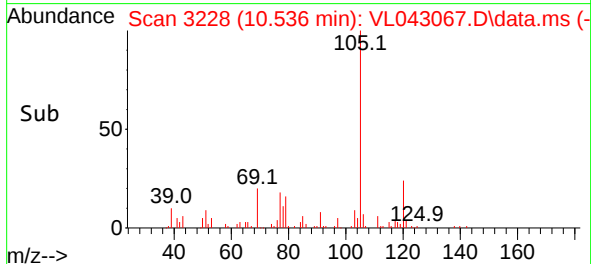
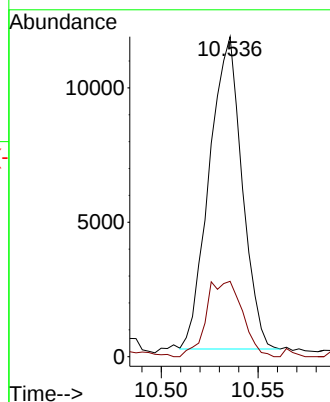
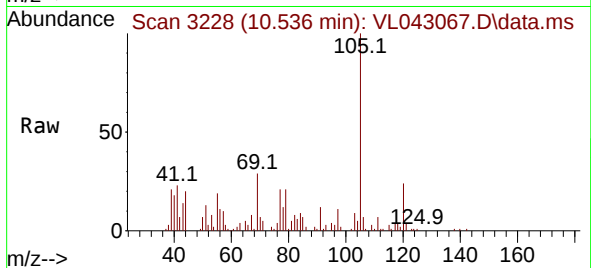
120 27.4 20.6 31.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#67

sec-Butylbenzene

Concen: 0.161 ppbv

RT: 11.762 min Scan# 3607

Delta R.T. 0.010 min

Lab File: VL043067.D

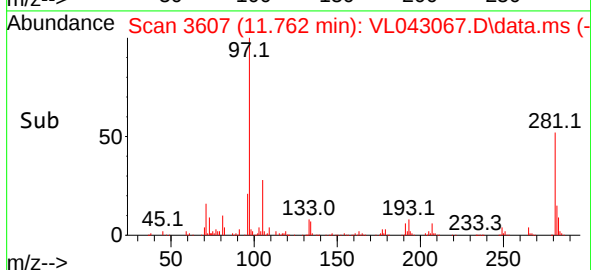
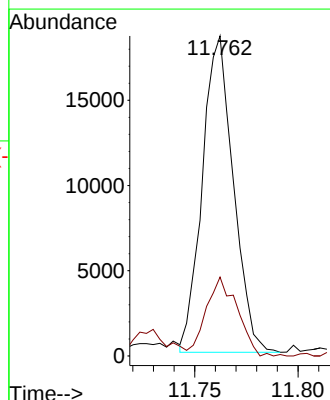
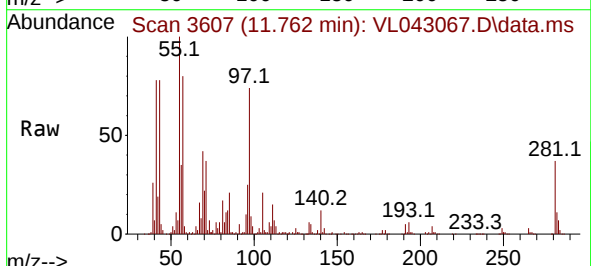
Acq: 08 Oct 2025 20:30

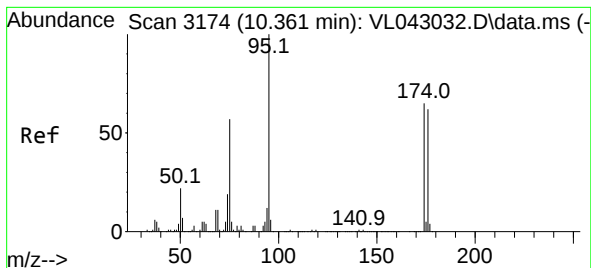
Tgt Ion:105 Resp: 19444

Ion Ratio Lower Upper

105 100

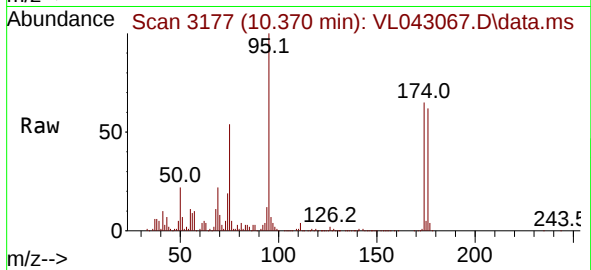
134 35.5 15.2 22.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 10.339 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. 0.010 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

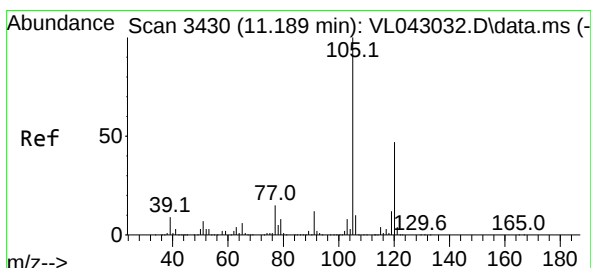
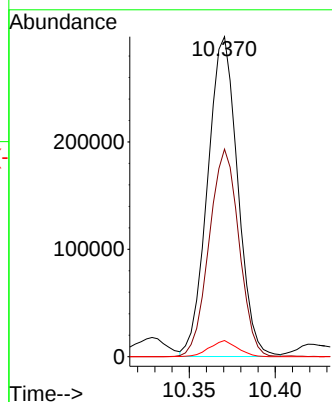
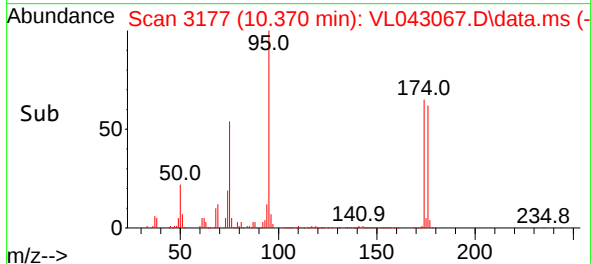
Instrument :
MSVOA_L
ClientSampleId :
SV1



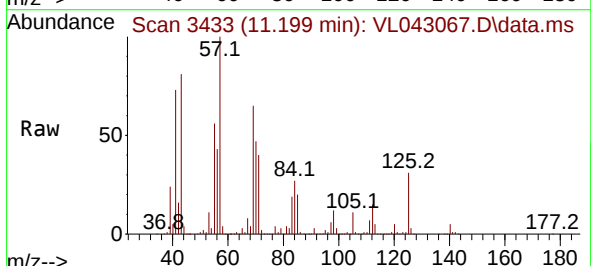
Tgt Ion: 95 Resp: 362344
Ion Ratio Lower Upper
95 100
174 64.5 52.3 78.5
175 4.7 3.8 5.8

Manual Integrations
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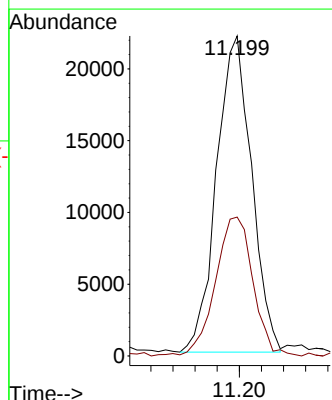
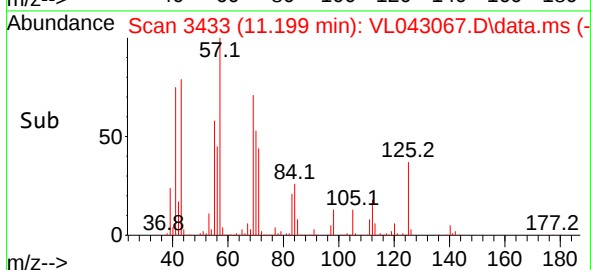
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

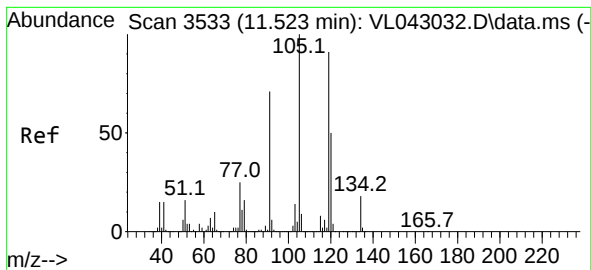


#73
1,3,5-Trimethylbenzene
Concen: 0.372 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. 0.010 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30



Tgt Ion:105 Resp: 24240
Ion Ratio Lower Upper
105 100
120 43.0 37.5 56.3





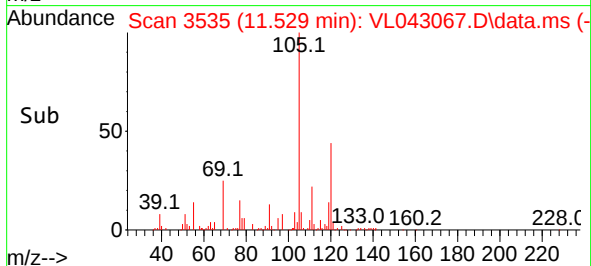
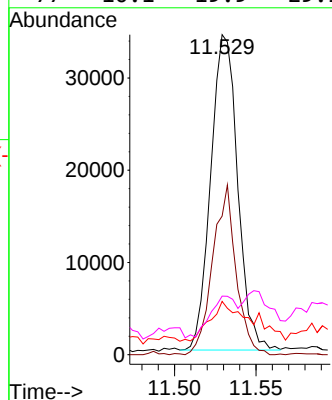
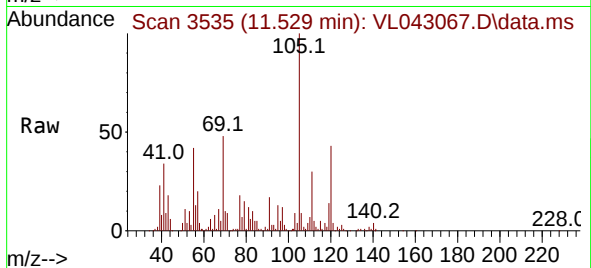
#74
1,2,4-Trimethylbenzene
Concen: 0.533 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.007 min
Lab File: VL043067.D
Acq: 08 Oct 2025 20:30

Instrument : MSVOA_L
ClientSampleId : SV1

Tgt Ion:	105	Resp:	39190
Ion	Ratio	Lower	Upper
105	100		
120	43.7	39.7	59.5
91	12.7	56.5	84.7
77	10.1	19.9	29.9

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	10/07/25
Project:	74-16 Cypress Hill St, Glendale NY	Date Received:	10/07/25
Client Sample ID:	SV2	SDG No.:	Q3306
Lab Sample ID:	Q3306-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043066.D	5		10/08/25 19:57	VL100825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.13	0.33	U	0.33	0.38
142-82-5	Heptane	1.80	7.38	J	3.48	10.3
75-34-3	1,1-Dichloroethane	0.65	2.63	U	2.63	10.1
110-82-7	Cyclohexane	1.10	3.79	U	3.79	8.61
156-59-2	cis-1,2-Dichloroethene	0.50	1.98	U	1.98	9.91
71-55-6	1,1,1-Trichloroethane	0.080	0.44	U	0.44	0.82
540-84-1	2,2,4-Trimethylpentane	0.70	3.27	U	3.27	11.7
71-43-2	Benzene	0.40	1.28	U	1.28	7.99
79-01-6	Trichloroethene	0.12	0.64	U	0.64	0.81
108-88-3	Toluene	3.70	13.9		3.01	9.42
127-18-4	Tetrachloroethene	1.40	9.49		0.54	1.02
100-41-4	Ethyl Benzene	1.40	6.08	J	4.13	10.9
179601-23-1	m/p-Xylene	3.90	16.9	J	9.12	21.7
95-47-6	o-Xylene	2.20	9.56	J	4.78	10.9
108-67-8	1,3,5-Trimethylbenzene	0.90	4.42	U	4.42	12.3
95-63-6	1,2,4-Trimethylbenzene	0.94	4.62	J	4.42	12.3
91-20-3	Naphthalene	0.070	0.37	U	0.37	2.62
110-54-3	Hexane	20.5	72.3		2.82	8.81
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	198000		2.794		
540-36-3	1,4-Difluorobenzene	519000		3.962		
3114-55-4	Chlorobenzene-d5	481000		8.875		

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\VL100825\
 Data File : VL043066.D
 Acq On : 08 Oct 2025 19:57
 Operator : SY/MD
 Sample : Q3306-04 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:21:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	197688	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.962	114	519007	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.875	117	480524	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	361719	10.449	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.489	85	3444	0.103	ppbv	100
9) Propene	1.473	41	6977m	0.537	ppbv	
10) Heptane	4.978	43	11369m	0.356	ppbv	
13) Ethanol	1.722	45	3255m	5.642	ppbv	
15) Acetone	1.842	43	20002	0.723	ppbv	95
20) Methylene Chloride	2.072	84	9615	0.796	ppbv	91
26) Hexane	2.836	57	109536	4.101	ppbv #	35
29) Chloroform	2.855	83	14318	0.314	ppbv	90
52) Tetrachloroethene	8.218	164	4990m	0.272	ppbv	
53) Toluene	6.930	91	36696	0.733	ppbv	98
58) Ethyl Benzene	9.348	91	20269	0.272	ppbv #	87
59) m/p-Xylene	9.523	91	49102	0.782	ppbv	100
60) o-Xylene	9.956	91	27516	0.440	ppbv	99
74) 1,2,4-Trimethylbenzene	11.529	105	13609	0.187	ppbv #	53

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

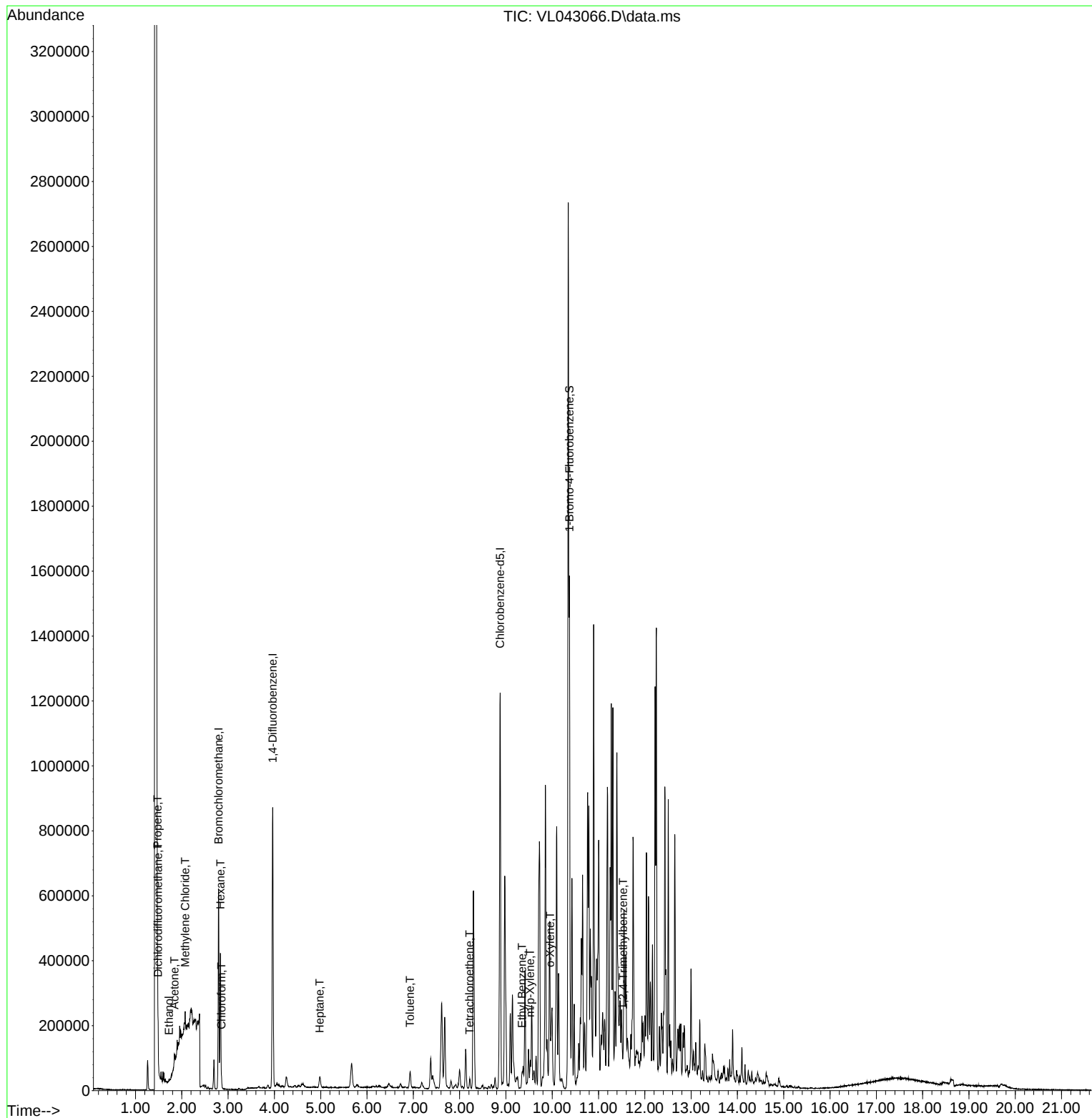
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043066.D
Acq On : 08 Oct 2025 19:57
Operator : SY/MD
Sample : Q3306-04 5X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

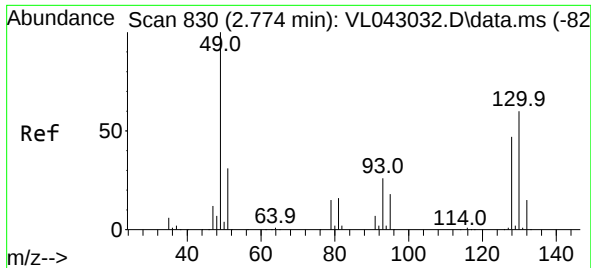
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Oct 09 01:21:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

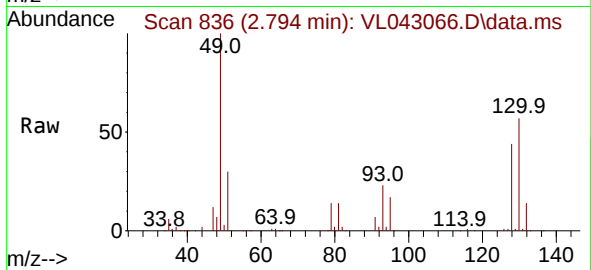
Reviewed By : Semsettin Yesilyurt 10/09/2025
Supervised By : Mahesh Dadoda 10/10/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.020 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

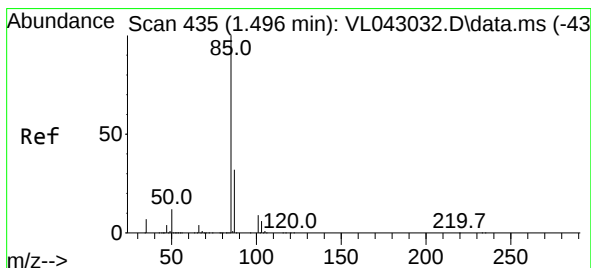
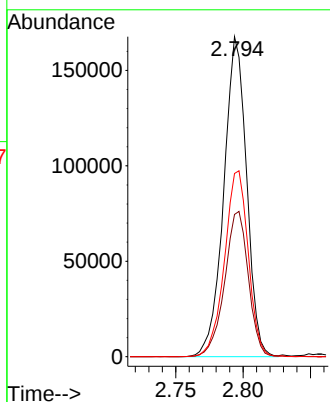
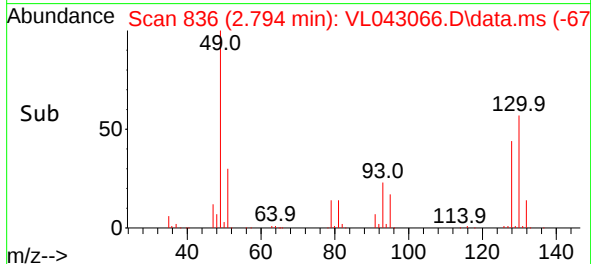
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 19768
Ion Ratio Lower Upper
49 100
128 47.1 24.1 72.2
130 60.5 31.4 94.3

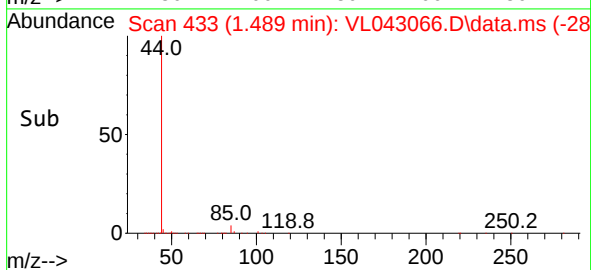
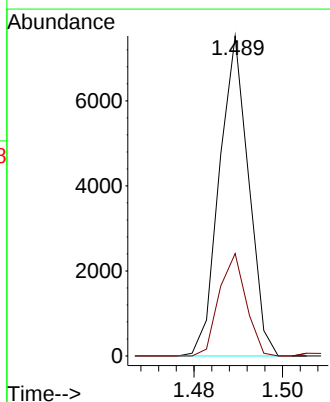
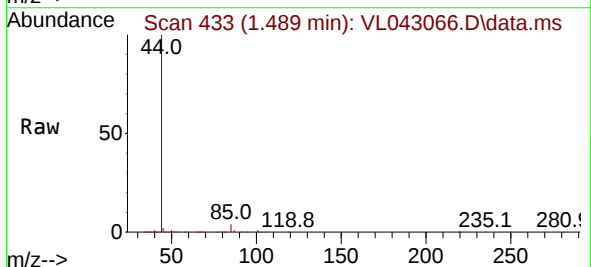
Manual Integrations
APPROVED

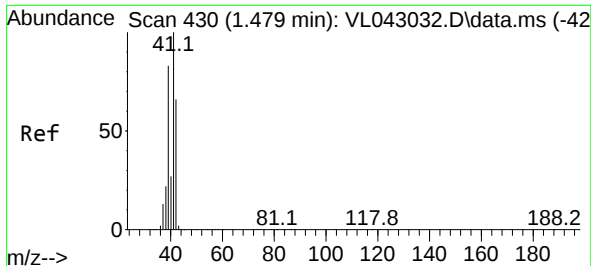
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#2
Dichlorodifluoromethane
Concen: 0.103 ppbv
RT: 1.489 min Scan# 433
Delta R.T. -0.006 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

Tgt Ion: 85 Resp: 3444
Ion Ratio Lower Upper
85 100
87 32.0 25.8 38.6





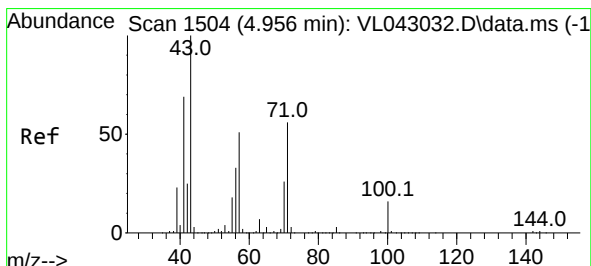
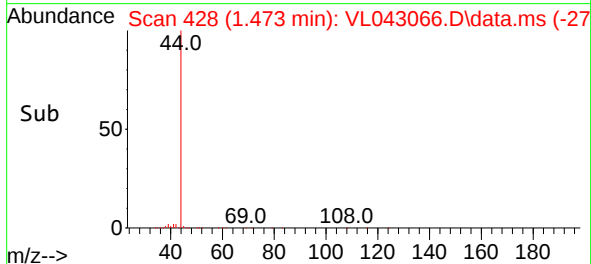
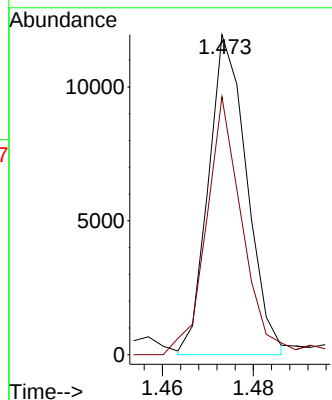
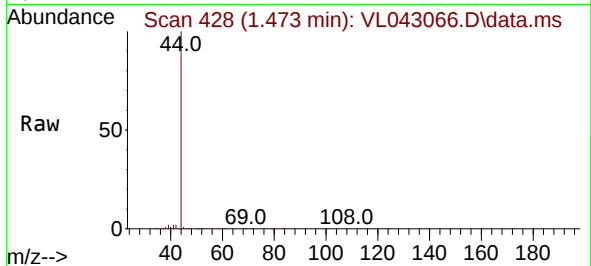
#9
Propene
Concen: 0.537 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 41 Resp: 697
Ion Ratio Lower Upper
41 100
42 0.0 53.3 79.9

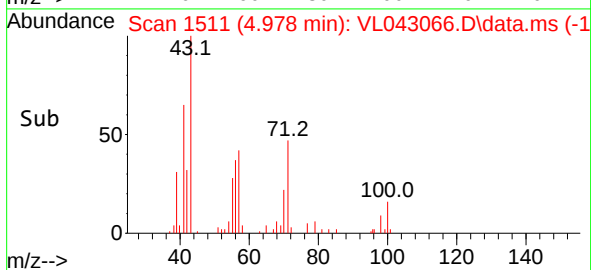
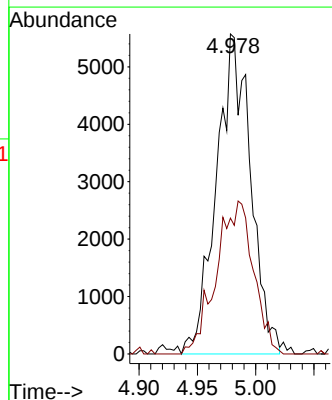
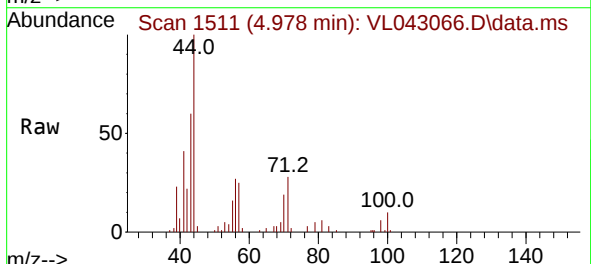
Manual Integrations
APPROVED

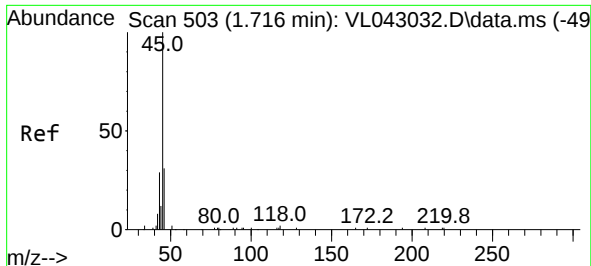
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#10
Heptane
Concen: 0.356 ppbv m
RT: 4.978 min Scan# 1511
Delta R.T. 0.023 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

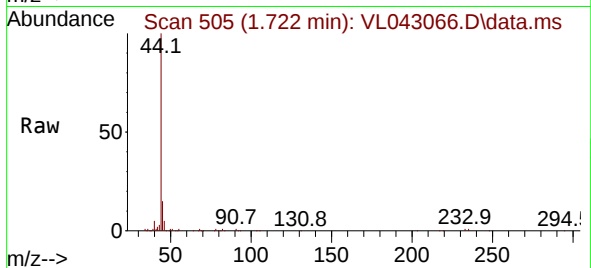
Tgt Ion: 43 Resp: 11369
Ion Ratio Lower Upper
43 100
57 51.9 40.3 60.5





#13
Ethanol
Concen: 5.642 ppbv m
RT: 1.722 min Scan# 503
Delta R.T. 0.006 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

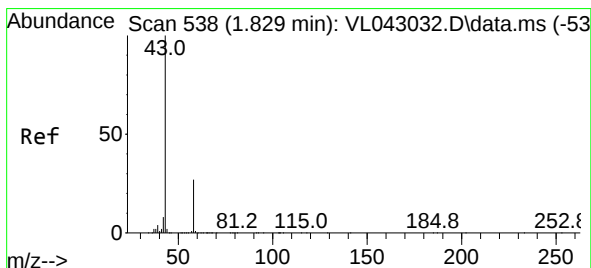
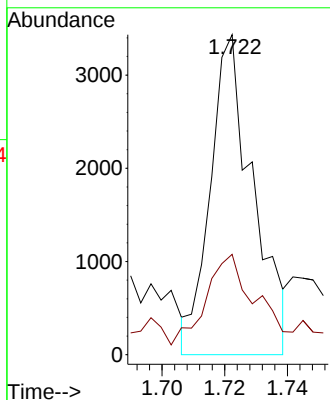
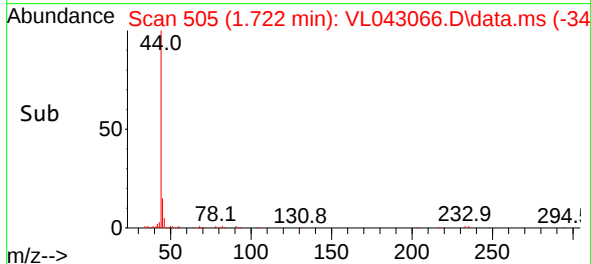
Instrument :
MSVOA_L
ClientSampleId :
SV2



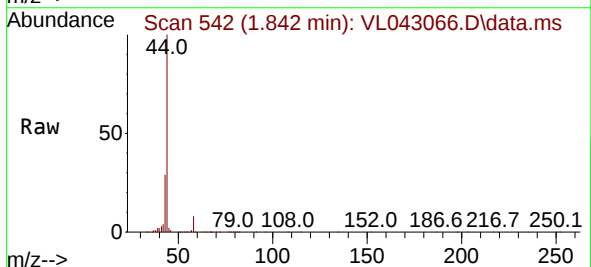
Tgt Ion: 45 Resp: 325
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4

Manual Integrations
APPROVED

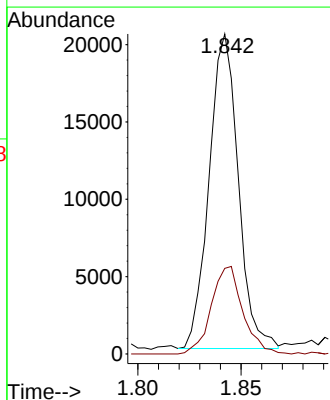
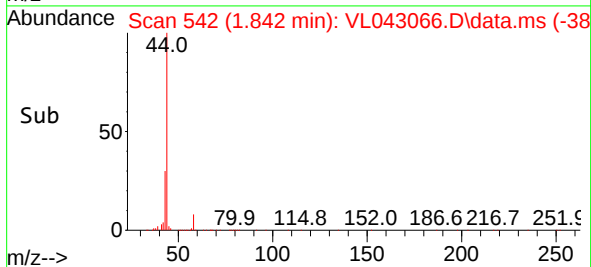
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025

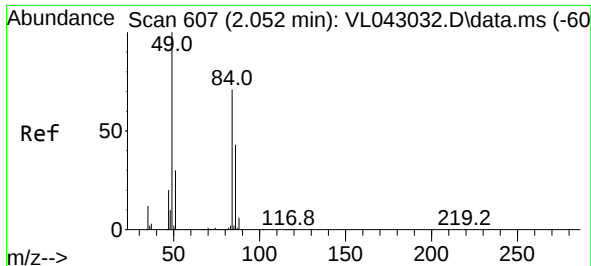


#15
Acetone
Concen: 0.723 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.013 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57



Tgt Ion: 43 Resp: 20002
Ion Ratio Lower Upper
43 100
58 30.2 22.2 33.4





#20

Methylene Chloride

Concen: 0.796 ppbv

RT: 2.072 min Scan# 613

Delta R.T. 0.020 min

Lab File: VL043066.D

Acq: 08 Oct 2025 19:57

Instrument :

MSVOA_L

ClientSampleId :

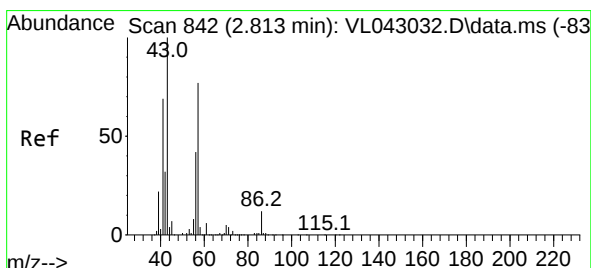
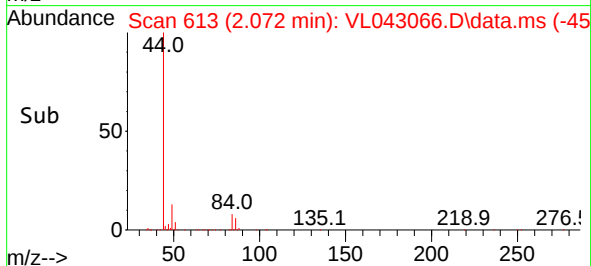
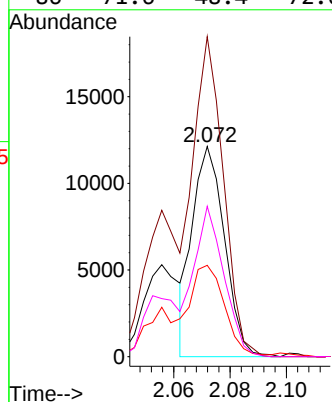
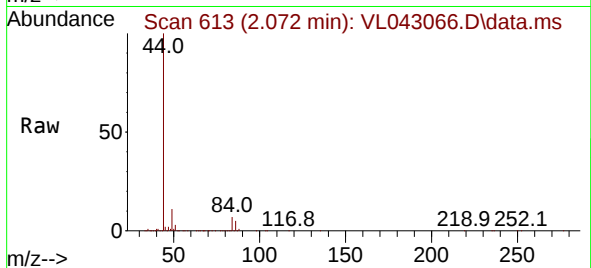
SV2

Tgt Ion:	84	Resp:	961
Ion	Ratio	Lower	Upper
84	100		
49	151.8	112.5	168.7
51	41.7	34.2	51.2
86	71.6	48.4	72.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#26

Hexane

Concen: 4.101 ppbv

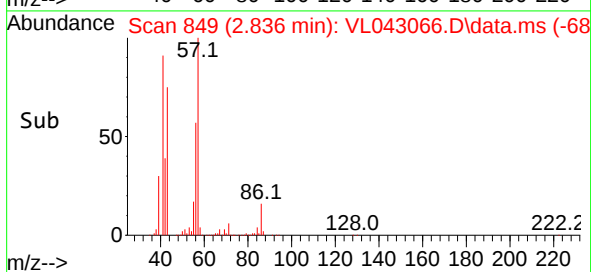
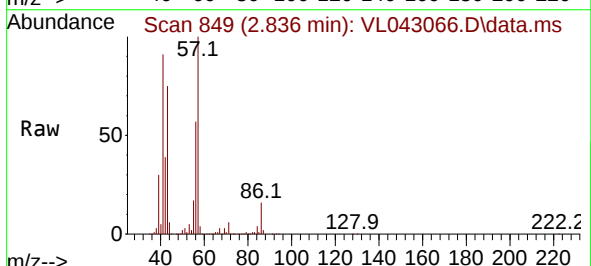
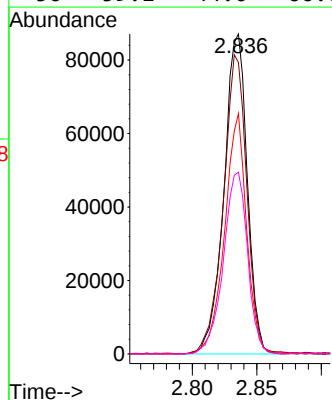
RT: 2.836 min Scan# 849

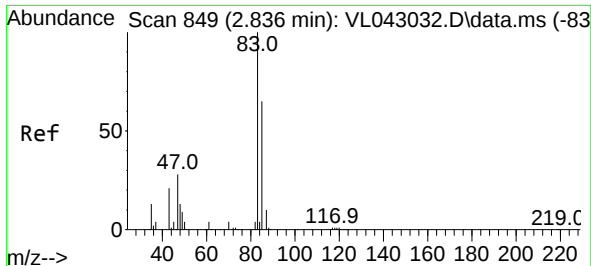
Delta R.T. 0.023 min

Lab File: VL043066.D

Acq: 08 Oct 2025 19:57

Tgt Ion:	57	Resp:	109536
Ion	Ratio	Lower	Upper
57	100		
41	94.5	76.1	114.1
43	71.2	201.4	302.0#
56	59.1	44.0	66.0





#29

Chloroform

Concen: 0.314 ppbv

RT: 2.855 min Scan# 849

Delta R.T. 0.020 min

Lab File: VL043066.D

Acq: 08 Oct 2025 19:57

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 83 Resp: 14318

Ion Ratio Lower Upper

83 100

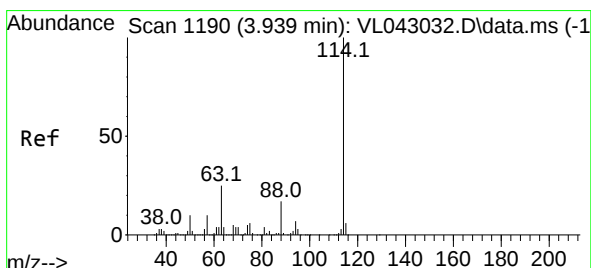
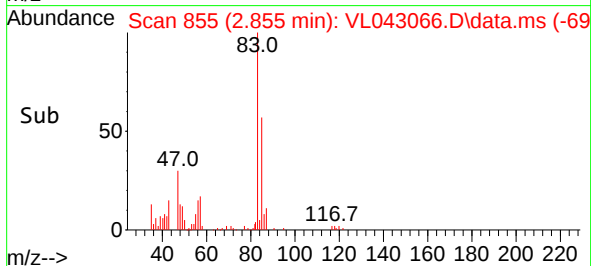
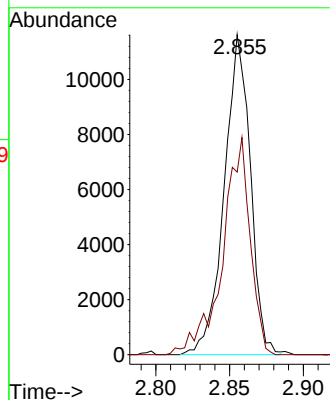
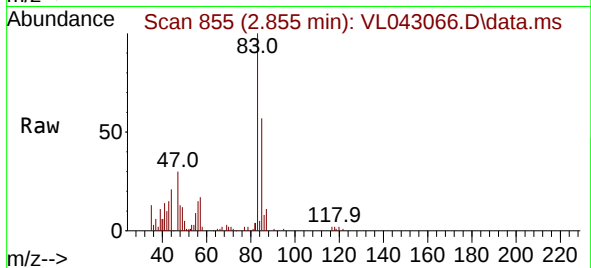
85 57.0 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025

Supervised By :Mahesh Dadoda 10/10/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.023 min

Lab File: VL043066.D

Acq: 08 Oct 2025 19:57

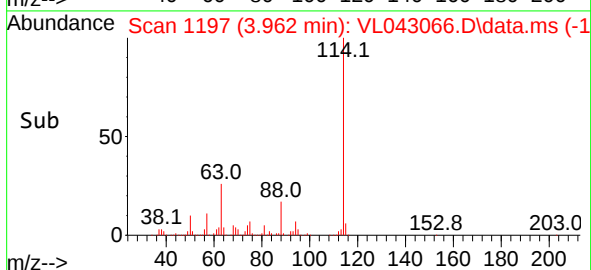
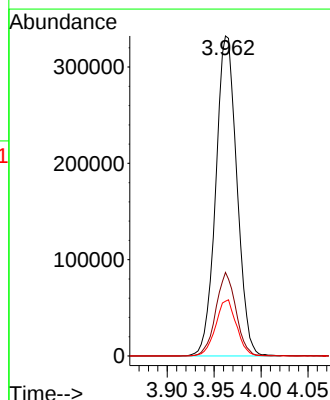
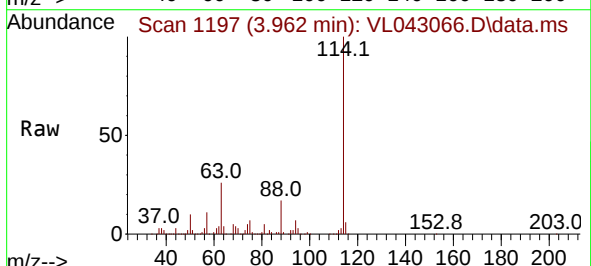
Tgt Ion:114 Resp: 519007

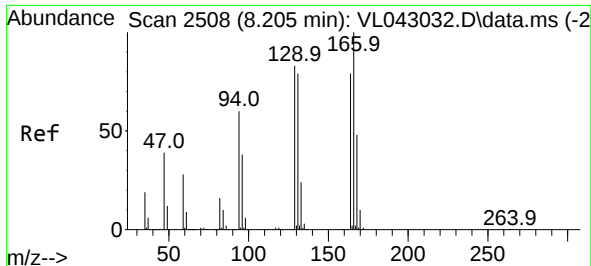
Ion Ratio Lower Upper

114 100

63 25.1 19.4 29.2

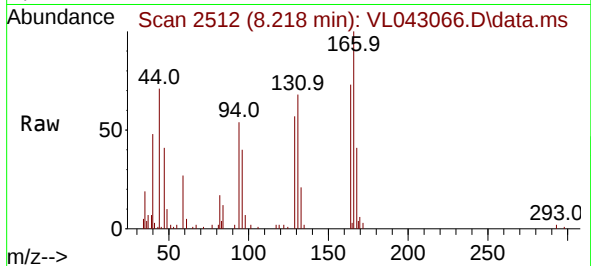
88 17.4 13.9 20.9





#52
Tetrachloroethene
Concen: 0.272 ppbv m
RT: 8.218 min Scan# 2114
Delta R.T. 0.013 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

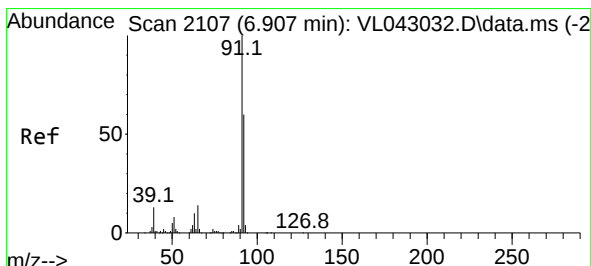
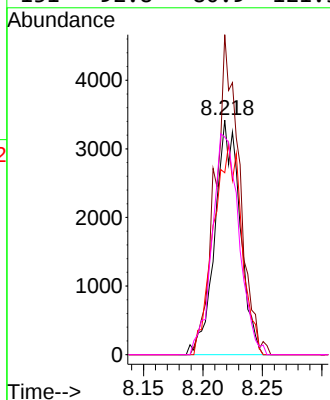
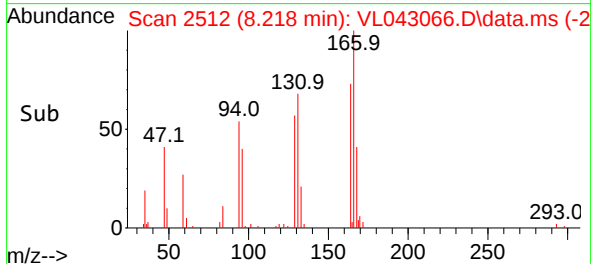
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 4990
Ion Ratio Lower Upper
164 100
166 136.4 101.8 152.8
129 77.6 84.5 126.7
131 92.8 80.9 121.3

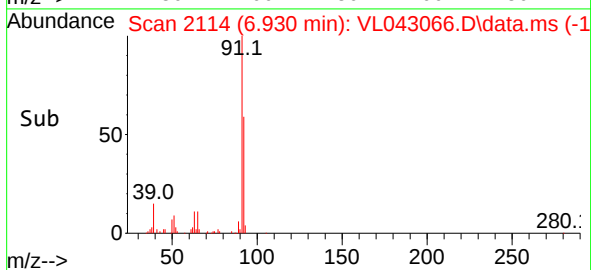
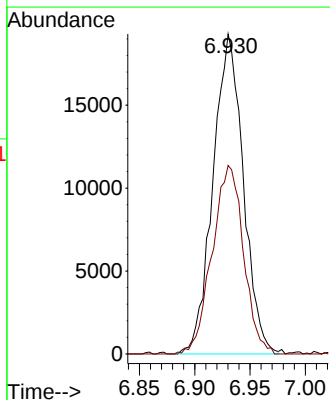
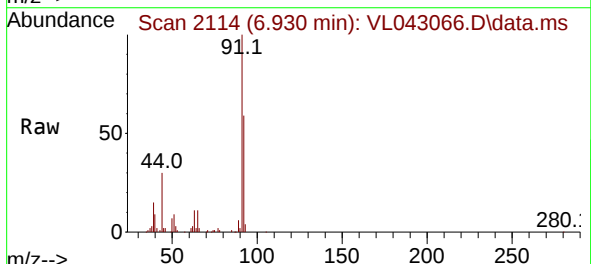
Manual Integrations
APPROVED

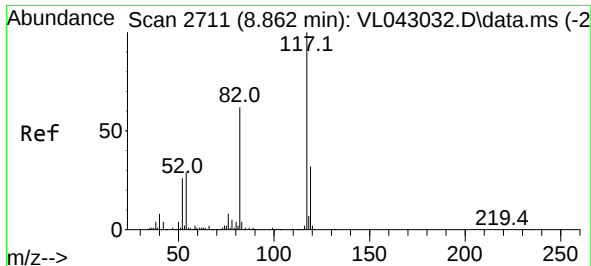
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#53
Toluene
Concen: 0.733 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. 0.023 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

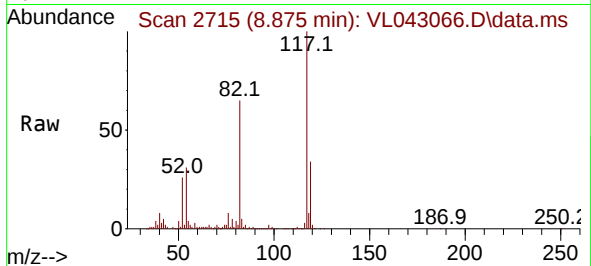
Tgt Ion: 91 Resp: 36696
Ion Ratio Lower Upper
91 100
92 60.9 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

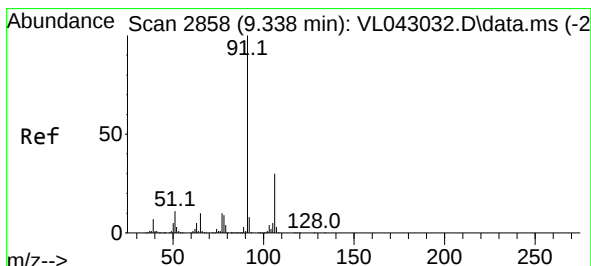
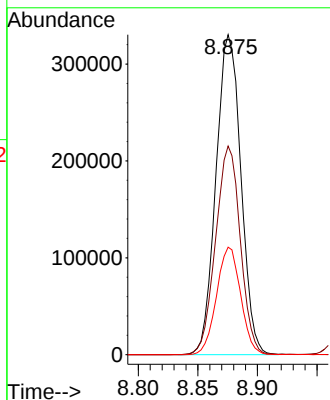
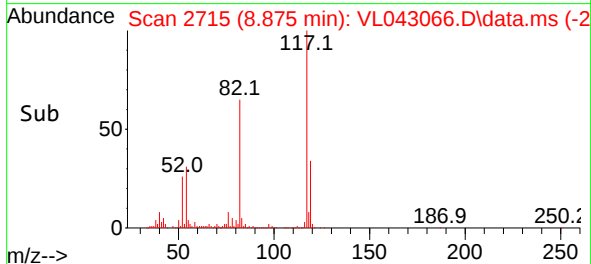
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:117 Resp: 480524
Ion Ratio Lower Upper
117 100
82 64.6 53.0 79.6
119 32.6 25.4 38.2

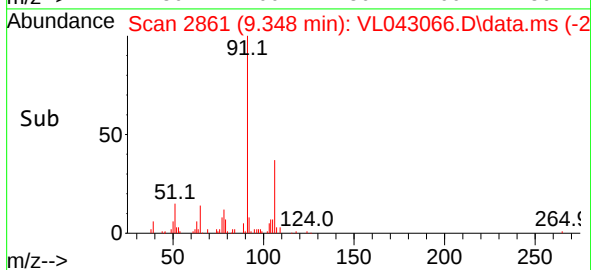
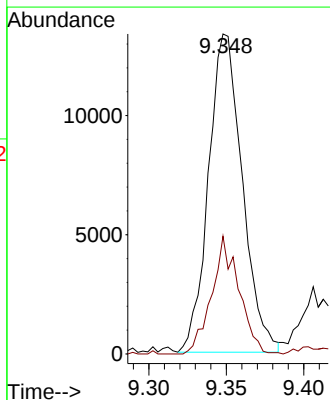
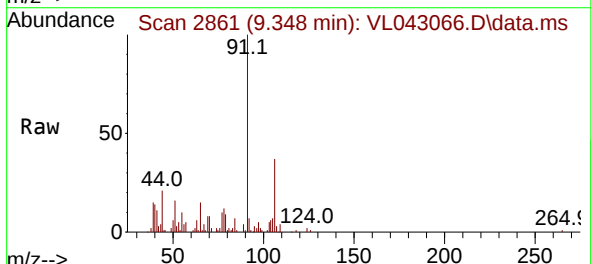
Manual Integrations
APPROVED

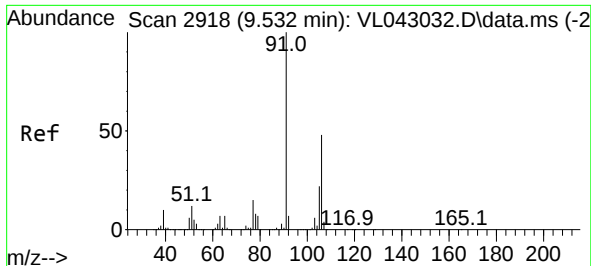
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#58
Ethyl Benzene
Concen: 0.272 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. 0.010 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

Tgt Ion: 91 Resp: 20269
Ion Ratio Lower Upper
91 100
106 37.0 24.1 36.1#





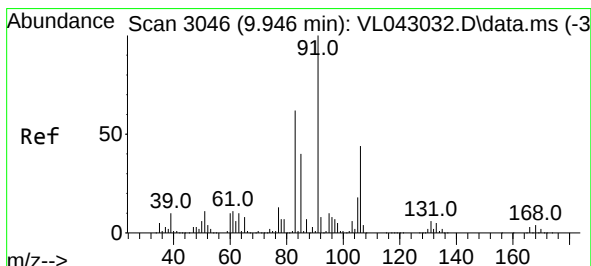
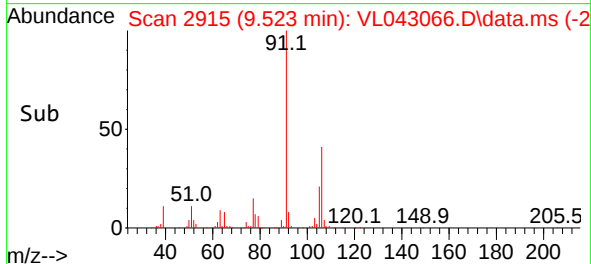
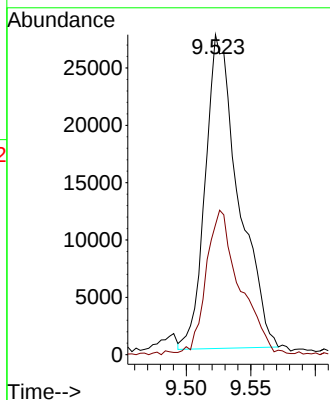
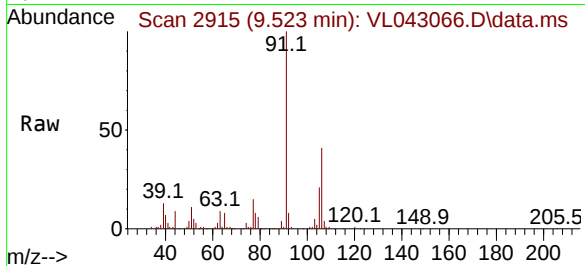
#59
m/p-Xylene
Concen: 0.782 ppbv
RT: 9.523 min Scan# 2918
Delta R.T. -0.009 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 4910
Ion Ratio Lower Upper
91 100
106 46.6 37.5 56.3

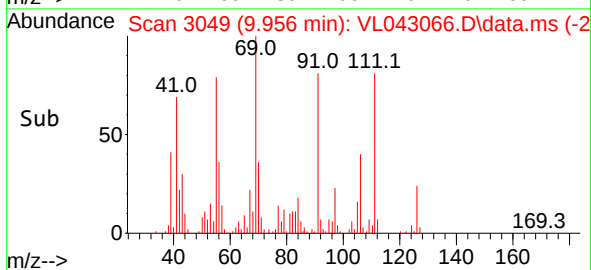
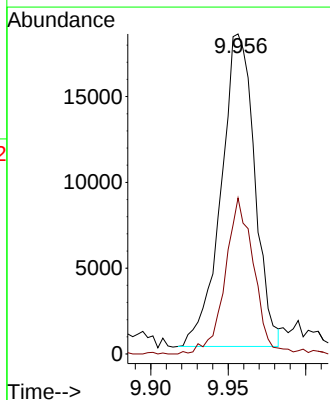
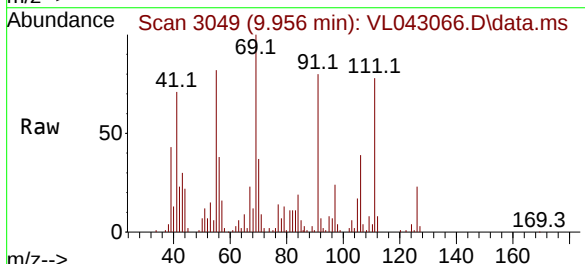
Manual Integrations
APPROVED

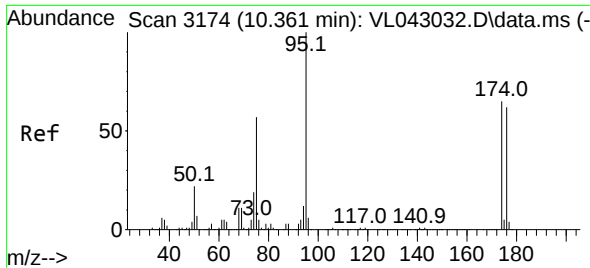
Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#60
o-Xylene
Concen: 0.440 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. 0.010 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

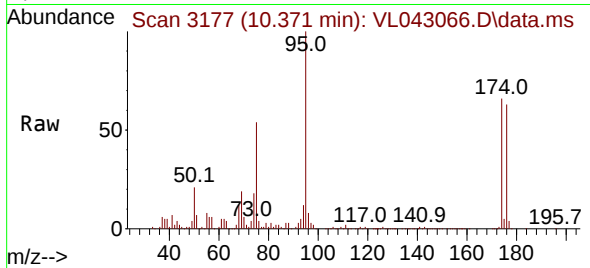
Tgt Ion: 91 Resp: 27516
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.5





#68
1-Bromo-4-Fluorobenzene
Concen: 10.449 ppbv
RT: 10.371 min Scan# 3174
Delta R.T. 0.010 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

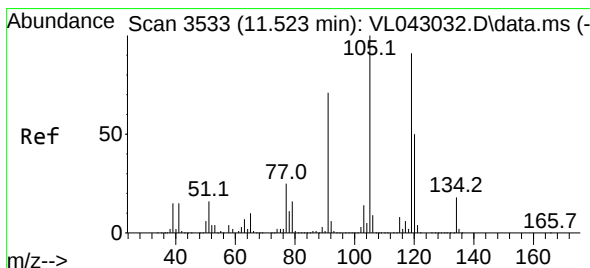
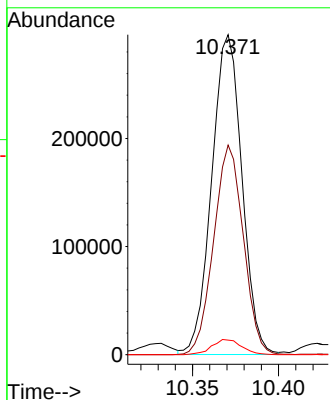
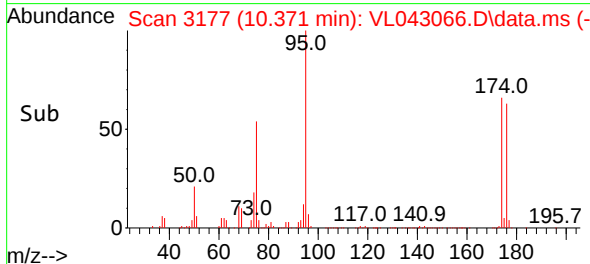
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 95 Resp: 361719
Ion Ratio Lower Upper
95 100
174 64.4 52.3 78.5
175 4.7 3.8 5.8

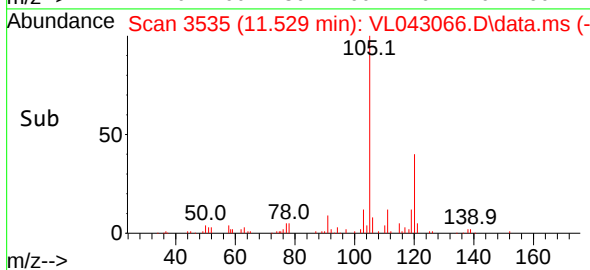
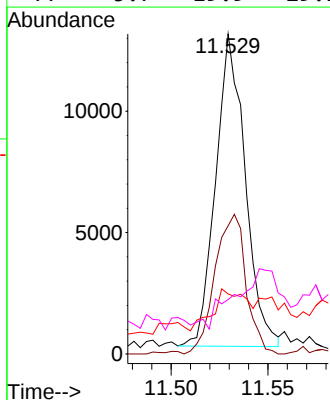
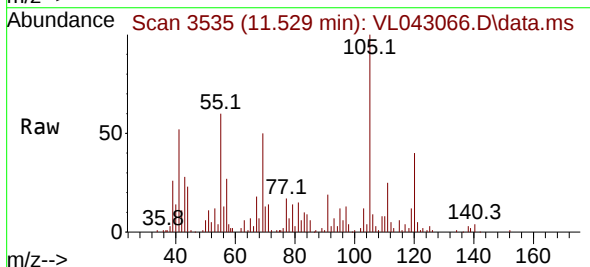
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
Supervised By :Mahesh Dadoda 10/10/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.187 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. 0.007 min
Lab File: VL043066.D
Acq: 08 Oct 2025 19:57

Tgt Ion:105 Resp: 13609
Ion Ratio Lower Upper
105 100
120 41.1 39.7 59.5
91 9.2 56.5 84.7#
77 5.7 19.9 29.9#





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3306</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>10/02/2025</u> <u>10/02/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>09:50</u> <u>13:41</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF0.5 = VL043031.D		RRF010 = VL043032.D		RRF002 = VL043033.D			
		RRF001 = VL043034.D		RRF0.1 = VL043036.D		RRF.03 = VL043037.D			
COMPOUND	RRF0.5	RRF010	RRF002	RRF001	RRF0.1	RRF.03	RRF	% RSD	
Vinyl Chloride	0.605	0.539	0.564	0.573	0.687	0.573	0.584	8.6	
Heptane	1.332	1.760	1.650	1.565			1.616	11.2	
1,1-Dichloroethane	1.347	1.206	1.295	1.365			1.287	5.6	
Cyclohexane	0.947	1.191	1.145	1.068			1.110	9.5	
cis-1,2-Dichloroethene	1.329	1.403	1.436	1.390			1.389	2.8	
1,1,1-Trichloroethane	2.204	2.170	2.255	2.216	2.098	2.543	2.239	6.4	
2,2,4-Trimethylpentane	1.388	1.593	1.589	1.494			1.533	6	
Benzene	0.901	0.964	0.971	0.984			0.955	3.3	
Trichloroethene	0.404	0.409	0.402	0.424	0.386	0.355	0.398	5.6	
Toluene	0.790	1.087	0.966	0.881			0.965	13.7	
Tetrachloroethene	0.339	0.345	0.352	0.343	0.328	0.424	0.354	9	
Ethyl Benzene	1.232	1.759	1.598	1.379			1.549	15.4	
m/p-Xylene	1.012	1.443	1.401	1.231			1.307	14.3	
o-Xylene	1.020	1.439	1.385	1.216			1.302	14.1	
1,3,5-Trimethylbenzene	1.041	1.470	1.423	1.271			1.340	14.1	
1,2,4-Trimethylbenzene	1.133	1.633	1.676	1.492			1.513	14.8	
Naphthalene	0.611	1.288	1.115	0.746	0.333		0.903	44.5	
1-Bromo-4-Fluorobenzene	0.727	0.735	0.732	0.726	0.692	0.688	0.720	3	
Hexane	1.261	1.401	1.413	1.271			1.351	5.8	

* 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.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\

Method File : VL100225AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Last Update : Fri Oct 03 08:23:34 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL043037.D 0.1 =VL043036.D 0.5 =VL043031.D 1 =VL043034.D 2 =VL043033.D 10 =VL043032.D 15 =VL043038.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.748	1.803	1.698	1.587	1.591	1.685	5.66
3) Chlorodifluoro...			1.726	1.701	1.684	1.527	1.513	1.630	6.23
4) Chloromethane			0.644	0.663	0.614	0.577	0.580	0.616	6.17
5) T Vinyl Chloride	0.573	0.687	0.605	0.573	0.564	0.539	0.548	0.584	8.59
6) T Bromomethane			0.260	0.283	0.270	0.248	0.252	0.263	5.35
7) Chloroethane			0.259	0.257	0.256	0.223	0.224	0.244	7.62
8) T Dichlorotetra...			1.429	1.430	1.438	1.301	1.307	1.381	5.09
9) T Propene			0.657	0.691	0.697	0.633	0.609	0.657	5.69
10) T Heptane			1.331	1.565	1.650	1.760	1.776	1.616	11.19
11) T Trichlorofluor...			1.770	1.866	1.761	1.621	1.642	1.732	5.83
12) T 1,1,2-Trichlor...			1.449	1.410	1.392	1.284	1.286	1.364	5.50
13) Ethanol			0.085	0.049	0.041	0.027	0.026	0.045#	52.72
14) T Bromoethene			0.507	0.499	0.501	0.469	0.469	0.489	3.80
15) T Acetone			1.669	1.561	1.472	1.143	1.155	1.400	17.12
16) T 1,3-Butadiene			0.609	0.587	0.611	0.536	0.543	0.577	6.17
17) tert-Butyl alc...			1.663	1.586	1.437	1.377	1.344	1.481	9.28
18) T 1,1-Dichloroet...			0.607	0.626	0.610	0.575	0.572	0.598	3.90
19) T Isopropyl Alcohol			0.768	0.727	0.667	0.603	0.589	0.671	11.56
20) T Methylene Chlo...			0.809	0.684	0.577	0.490	0.496	0.611	22.19
21) T Allyl Chloride			0.982	0.888	0.920	0.843	0.852	0.897	6.32
22) T trans-1,2-Dich...			0.723	0.713	0.676	0.635	0.648	0.679	5.74
23) T Vinyl Acetate			0.388	0.316	0.308	0.244	0.231	0.297	21.19
24) T 1,1-Dichloroet...			1.347	1.365	1.295	1.206	1.221	1.287	5.57
25) T Ethyl Acetate			3.265	3.663	3.644	3.520	3.471	3.513	4.56
26) T Hexane			1.261	1.271	1.413	1.401	1.411	1.351	5.80
27) T Carbon Disulfide			1.681	1.655	1.576	1.521	1.543	1.595	4.37
28) T Methyl tert-Bu...			0.853	0.872	0.868	0.823	0.813	0.846	3.14
29) T Chloroform			2.393	2.395	2.326	2.206	2.199	2.304	4.19
30) T Cyclohexane			0.947	1.068	1.145	1.191	1.200	1.110	9.46
31) T cis-1,2-Dichlo...			1.329	1.390	1.436	1.403	1.388	1.389	2.79
32) T 1,1,1-Trichlor...	2.543	2.098	2.204	2.216	2.255	2.170	2.186	2.239	6.38

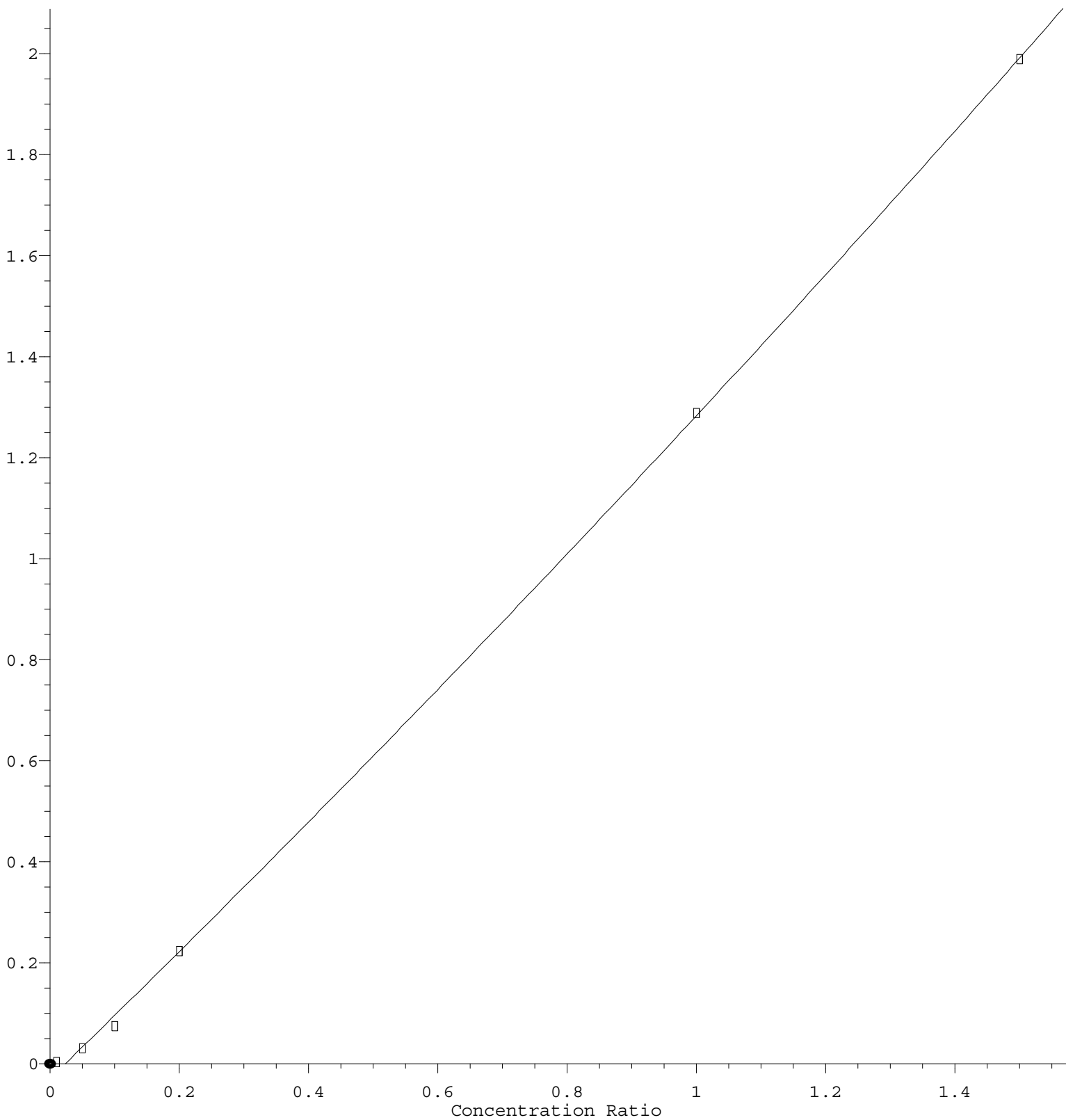
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.704	0.685	0.695	0.655	0.654	0.679	3.42
35) T Carbon Tetrach...	1.006	0.828	0.816	0.805	0.770	0.761	0.773	0.823	10.30
36) T Benzene			0.901	0.984	0.971	0.964	0.957	0.955	3.32
37) T 1,2-Dichloroet...			0.584	0.577	0.570	0.547	0.551	0.566	2.79
38) T Trichloroethene	0.355	0.386	0.404	0.424	0.402	0.409	0.407	0.398	5.58
39) T 1,2-Dichloropr...			0.360	0.362	0.354	0.350	0.345	0.354	2.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL100225AIR.M											
40)	T	1,4-Dioxane			0.146	0.151	0.152	0.157	0.154	0.152	2.71
41)	T	Tetrahydrofuran			0.297	0.338	0.365	0.376	0.378	0.351	9.74
42)	T	Bromodichlorom...			0.818	0.805	0.791	0.788	0.793	0.799	1.55
43)		Methyl Methacr...			0.281	0.286	0.308	0.353	0.358	0.317	11.50
44)	T	2,2,4-Trimethy...			1.388	1.494	1.589	1.593	1.601	1.533	6.01
45)	T	t-1,3-Dichloro...			0.268	0.268	0.279	0.314	0.322	0.290	8.91
46)	T	cis-1,3-Dichlo...			0.374	0.386	0.396	0.440	0.449	0.409	8.23
47)	T	1,1,2-Trichlor...			0.414	0.405	0.395	0.376	0.379	0.394	4.18
48)	T	Dibromochlorom...			0.610	0.644	0.644	0.661	0.655	0.643	3.10
49)	T	Bromoform			0.492	0.516	0.542	0.560	0.575	0.537	6.24
50)	T	4-Methyl-2-Pen...			0.719	0.763	0.820	0.910	0.926	0.827	10.90
51)	T	2-Hexanone			0.438	0.515	0.578	0.693	0.720	0.589	20.15
52)	T	Tetrachloroethene	0.424	0.328	0.339	0.343	0.352	0.345	0.346	0.354	9.02
53)	T	Toluene			0.790	0.881	0.966	1.087	1.099	0.965	13.74
54)	T	1,2-Dibromoethane		0.445	0.448	0.472	0.471	0.481	0.484	0.467	3.56
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.631	0.623	0.614	0.591	0.590	0.610	3.04
57)	T	Chlorobenzene			1.088	1.096	1.086	1.015	1.002	1.057	4.24
58)	T	Ethyl Benzene			1.232	1.379	1.598	1.759	1.778	1.549	15.41
59)	T	m/p-Xylene			1.012	1.231	1.401	1.443	1.446	1.307	14.29
60)	T	o-Xylene			1.020	1.216	1.385	1.439	1.448	1.302	14.07
61)	T	Styrene			0.398	0.449	0.523	0.666	0.691	0.545	23.81
62)		Isopropylbenzene			1.675	1.919	2.082	2.141	2.174	1.998	10.30
63)	T	1,1,2,2-Tetrac...	1.080	0.884	0.919	0.949	0.949	0.870	0.886	0.934	7.66
64)		n-propylbenzene			0.384	0.491	0.540	0.562	0.579	0.511	15.38
65)		tert-Butylbenzene			1.384	1.730	1.932	1.928	1.918	1.778	13.28
66)	T	Benzyl Chloride			0.064	0.066	0.066	0.069	0.075	0.068	6.61
67)		sec-Butylbenzene			1.912	2.476	2.742	2.652	2.626	2.482	13.41
68)	S	1-Bromo-4-Fluo...	0.688	0.692	0.727	0.726	0.732	0.735	0.743	0.720	3.00
69)		p-Isopropyltol...			1.499	1.879	2.234	2.250	2.231	2.019	16.33
70)		n-Butylbenzene			1.361	1.776	2.148	2.222	2.212	1.944	19.22
71)		2-Chlorotoluene			1.156	1.348	1.522	1.583	1.621	1.446	13.34
72)	T	4-Ethyltoluene			1.145	1.426	1.647	1.751	1.778	1.549	17.12
73)	T	1,3,5-Trimethy...			1.041	1.271	1.423	1.470	1.496	1.340	14.06
74)	T	1,2,4-Trimethy...			1.133	1.492	1.676	1.633	1.630	1.513	14.77
75)	T	1,3-Dichlorobe...			0.932	0.986	1.031	0.976	0.994	0.984	3.60
76)	T	1,4-Dichlorobe...			0.825	0.929	0.990	0.967	0.980	0.938	7.20
77)	T	1,2-Dichlorobe...			0.951	1.037	1.036	0.930	0.945	0.980	5.35
78)	T	Hexachloro-1,3...			0.683	0.705	0.731	0.645	0.650	0.683	5.29
79)	T	Naphthalene		0.333	0.611	0.746	1.115	1.288	1.326	0.903	44.50
80)	T	Naphthalene,2-...			0.645	0.167	0.278	0.567	0.629	0.457	48.04
81)	T	1,2,4-Trichlor...			0.383	0.476	0.629	0.696	0.731	0.583	25.49

(#) = Out of Range

Naphthalene

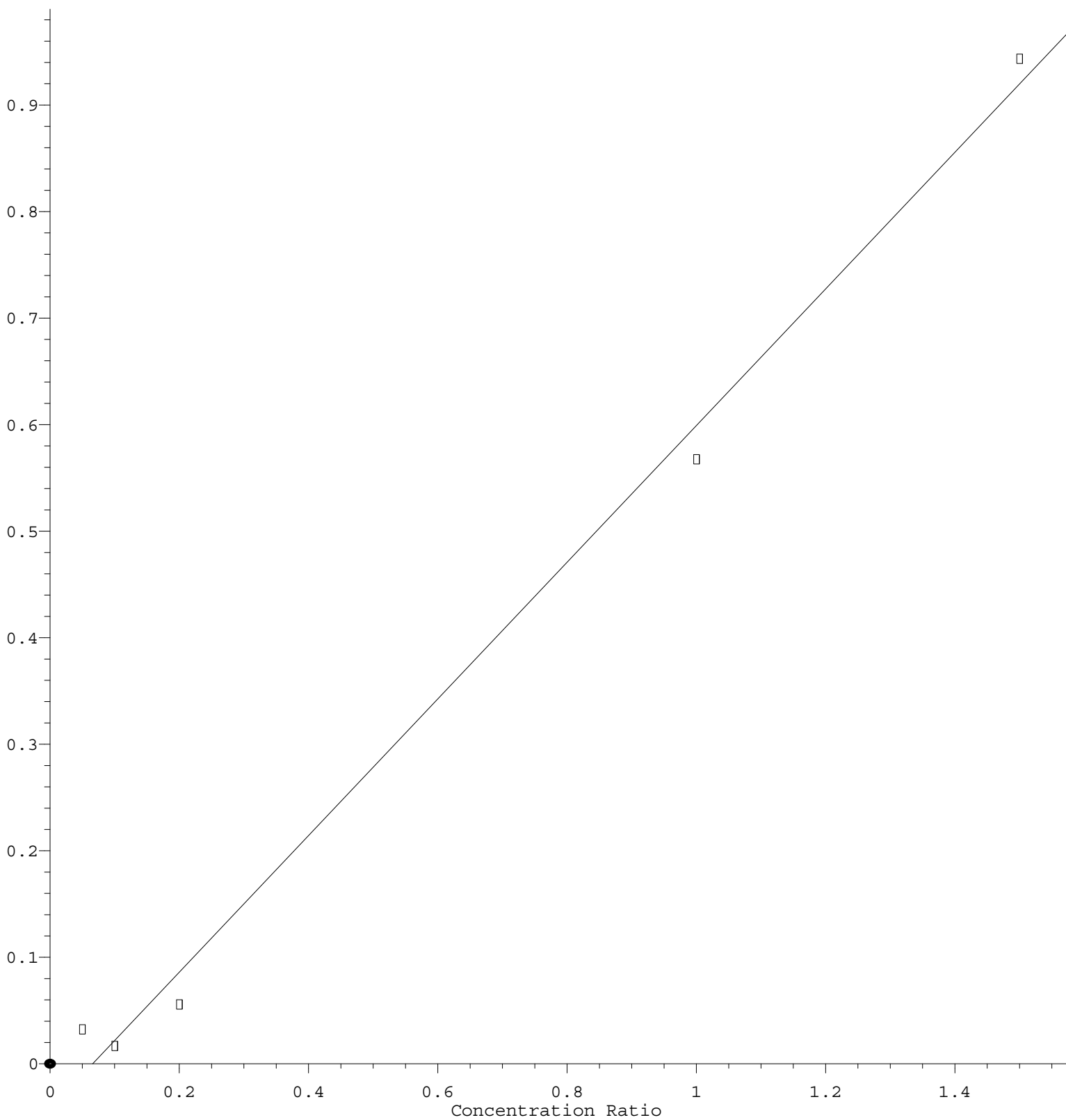
Response Ratio



$R = 6.981e-002 A^2 + 1.242e+000 A - 2.912e-002$
 Coef of Det (r^2) = 0.999745 Curve Fit: Quadratic
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL100225AIR.M
 Calibration Table Last Updated: Fri Oct 03 08:23:34 2025

Naphthalene, 2-methyl-

Response Ratio



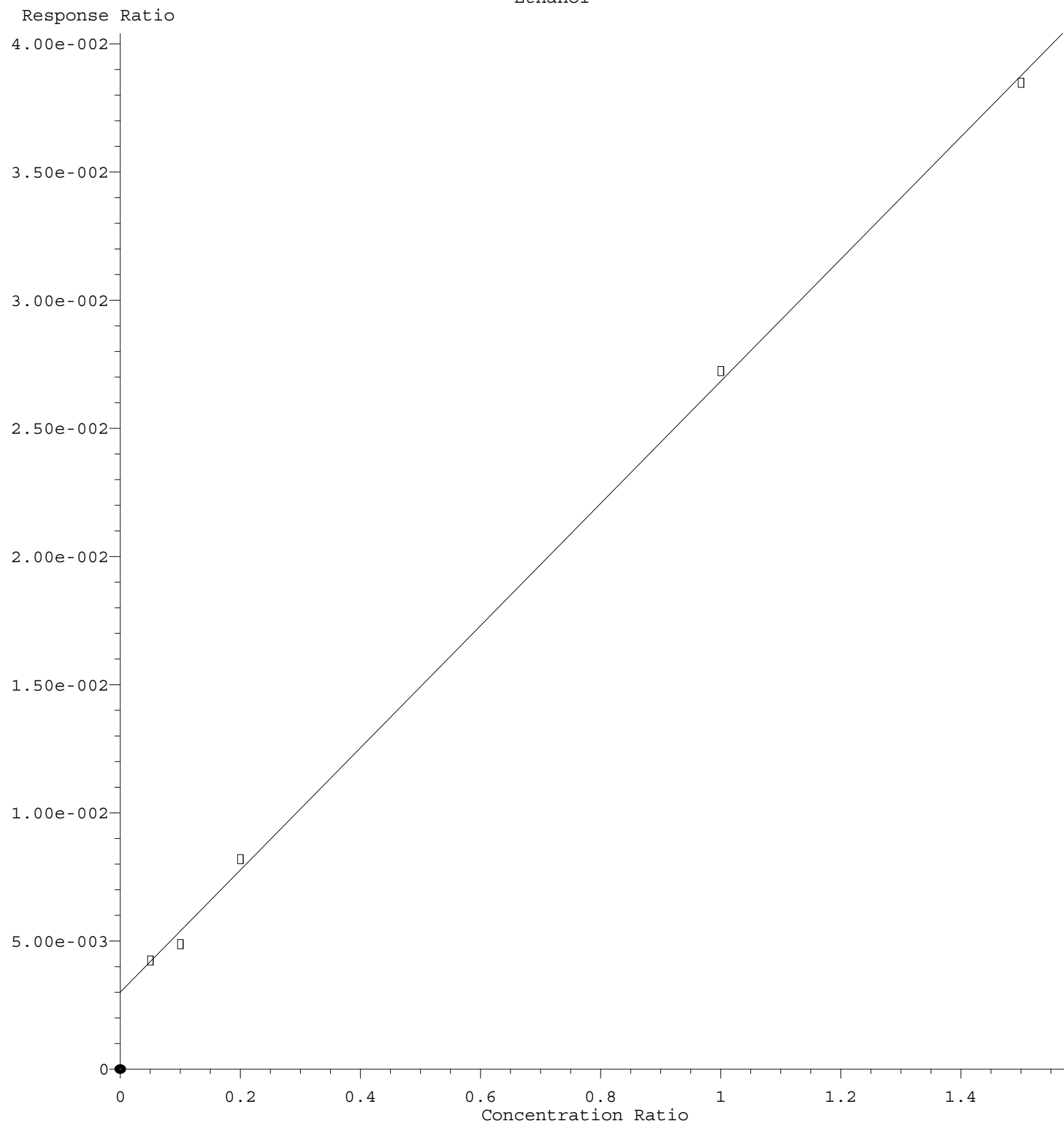
$$\text{Response} = 6.413\text{e-}001 * \text{Amt} - 4.246\text{e-}002$$

Coef of Det (r^2) = 0.993798 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL100225AIR.M

Calibration Table Last Updated: Fri Oct 03 08:23:34 2025

Ethanol



Response = 2.382e-002 * Amt + 3.025e-003
 Coef of Det (r^2) = 0.999298 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL100225AIR.M
 Calibration Table Last Updated: Fri Oct 03 08:23:34 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043031.D
 Acq On : 02 Oct 2025 09:50
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:00:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	172062	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	504004	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	415115	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 301605 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	15037	0.519	ppbv	97
3) Chlorodifluoromethane	1.470	51	14848	0.529	ppbv	96
4) Chloromethane	1.528	50	5542	0.523	ppbv	91
5) Vinyl Chloride	1.573	62	5205	0.518	ppbv	99
6) Bromomethane	1.660	94	2235	0.495	ppbv	87
7) Chloroethane	1.696	64	2228	0.531	ppbv	94
8) Dichlorotetrafluoroethane	1.547	85	12294	0.517	ppbv	99
9) Propene	1.479	41	5652	0.500	ppbv	95
10) Heptane	4.949	43	11455m	0.411	ppbv	
11) Trichlorofluoromethane	1.871	101	15230	0.511	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.130	101	12463	0.531	ppbv	99
13) Ethanol	1.716	45	729	0.509	ppbv #	31
14) Bromoethene	1.774	108	4364	0.519	ppbv #	91
15) Acetone	1.829	43	14360	0.596	ppbv	100
16) 1,3-Butadiene	1.602	39	5235	0.527	ppbv	97
17) tert-Butyl alcohol	2.033	59	14304	0.561	ppbv	96
18) 1,1-Dichloroethene	2.026	96	5223	0.508	ppbv	93
19) Isopropyl Alcohol	1.877	45	6611	0.573	ppbv #	32
20) Methylene Chloride	2.052	84	6961	0.662	ppbv	92
21) Allyl Chloride	2.088	41	8450	0.547	ppbv	97
22) trans-1,2-Dichloroethene	2.327	96	6223	0.533	ppbv	89
23) Vinyl Acetate	2.447	43	3334	0.652	ppbv #	82
24) 1,1-Dichloroethane	2.398	63	11586	0.523	ppbv	99
25) Ethyl Acetate	2.822	43	28090	0.465	ppbv	98
26) Hexane	2.813	57	10845	0.466	ppbv	92
27) Carbon Disulfide	2.140	76	14458	0.527	ppbv #	36
28) Methyl tert-Butyl Ether	2.431	73	7340	0.505	ppbv	94
29) Chloroform	2.835	83	20586	0.519	ppbv	97
30) Cyclohexane	3.839	84	8149	0.427	ppbv	93
31) cis-1,2-Dichloroethene	2.706	61	11430	0.478	ppbv	95
32) 1,1,1-Trichloroethane	3.350	97	18962	0.492	ppbv	97
34) 2-Butanone	2.547	43	17736	0.519	ppbv	100
35) Carbon Tetrachloride	3.742	117	20564	0.496	ppbv	93
36) Benzene	3.638	78	22717	0.472	ppbv	93
37) 1,2-Dichloroethane	3.204	62	14711	0.516	ppbv	98
38) Trichloroethene	4.515	130	10181m	0.507	ppbv	
39) 1,2-Dichloropropane	4.289	63	9070	0.508	ppbv #	86
40) 1,4-Dioxane	4.570	88	3676m	0.480	ppbv	
41) Tetrahydrofuran	3.046	42	7477	0.423	ppbv	95
42) Bromodichloromethane	4.463	83	20614	0.512	ppbv #	97
43) Methyl Methacrylate	4.852	69	7092	0.444	ppbv	91
44) 2,2,4-Trimethylpentane	4.616	57	34977	0.453	ppbv	96
45) t-1,3-Dichloropropene	6.376	75	6760m	0.467	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043031.D
 Acq On : 02 Oct 2025 09:50
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:00:22 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.561	75	9423m	0.458	ppbv	
47) 1,1,2-Trichloroethane	6.551	97	10438	0.526	ppbv	91
48) Dibromochloromethane	7.357	129	15360	0.474	ppbv	94
49) Bromoform	9.461	173	12398	0.458	ppbv	95
50) 4-Methyl-2-Pentanone	5.726	43	18115	0.434	ppbv	100
51) 2-Hexanone	7.418	43	11043m	0.373	ppbv	
52) Tetrachloroethene	8.205	164	8537	0.476	ppbv	94
53) Toluene	6.904	91	19917m	0.410	ppbv	
54) 1,2-Dibromoethane	7.626	107	11279	0.479	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.901	131	13091	0.517	ppbv #	1
57) Chlorobenzene	8.898	112	22573	0.514	ppbv	95
58) Ethyl Benzene	9.335	91	25575	0.398	ppbv	96
59) m/p-Xylene	9.529	91	42005m	0.774	ppbv	
60) o-Xylene	9.943	91	21166	0.392	ppbv	97
61) Styrene	9.849	104	8258	0.365	ppbv	98
62) Isopropylbenzene	10.522	105	34761	0.419	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.943	83	19066	0.490	ppbv	99
64) n-propylbenzene	10.972	120	7963	0.375	ppbv	87
65) tert-Butylbenzene	11.516	119	28729	0.389	ppbv	97
66) Benzyl Chloride	11.600	91	1321	0.462	ppbv #	92
67) sec-Butylbenzene	11.752	105	39676	0.385	ppbv	98
69) p-Isopropyltoluene	11.911	119	31118	0.371	ppbv	98
70) n-Butylbenzene	12.267	91	28253	0.350	ppbv	95
71) 2-Chlorotoluene	10.885	91	24004	0.400	ppbv	98
72) 4-Ethyltoluene	11.108	105	23762	0.369	ppbv #	96
73) 1,3,5-Trimethylbenzene	11.186	105	21617	0.389	ppbv	98
74) 1,2,4-Trimethylbenzene	11.523	105	23511	0.374	ppbv	88
75) 1,3-Dichlorobenzene	11.590	146	19346	0.474	ppbv	99
76) 1,4-Dichlorobenzene	11.655	146	17115	0.440	ppbv	98
77) 1,2-Dichlorobenzene	11.934	146	19742	0.485	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	14174	0.500	ppbv	99
79) Naphthalene	13.500	128	12682	0.479	ppbv #	96
80) Naphthalene,2-methyl-	14.442	142	13384	1.165	ppbv	95
81) 1,2,4-Trichlorobenzene	13.426	180	7952	0.329	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043032.D
 Acq On : 02 Oct 2025 10:23
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:01:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	175694	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	523534	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	448396	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.361 95 329578 10.203 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	278856	9.417	ppbv	100
3) Chlorodifluoromethane	1.473	51	268344	9.368	ppbv	100
4) Chloromethane	1.528	50	101430	9.378	ppbv	100
5) Vinyl Chloride	1.576	62	94623	9.218	ppbv	100
6) Bromomethane	1.664	94	43581	9.448	ppbv	100
7) Chloroethane	1.699	64	39123	9.134	ppbv	100
8) Dichlorotetrafluoroethane	1.551	85	228586	9.421	ppbv	100
9) Propene	1.479	41	111264	9.633	ppbv	100
10) Heptane	4.956	43	309134	10.867	ppbv	100
11) Trichlorofluoromethane	1.871	101	284734	9.357	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	225532	9.410	ppbv	100
13) Ethanol	1.716	45	4785	10.163	ppbv	100
14) Bromoethene	1.777	108	82329	9.582	ppbv	100
15) Acetone	1.829	43	200896	8.166	ppbv	100
16) 1,3-Butadiene	1.606	39	94239	9.292	ppbv	100
17) tert-Butyl alcohol	2.033	59	241909	9.297	ppbv	100
18) 1,1-Dichloroethene	2.026	96	101035	9.617	ppbv	100
19) Isopropyl Alcohol	1.877	45	105917	8.986	ppbv	100
20) Methylene Chloride	2.052	84	86085	8.017	ppbv	100
21) Allyl Chloride	2.088	41	148094	9.397	ppbv	100
22) trans-1,2-Dichloroethene	2.331	96	111481	9.346	ppbv	100
23) Vinyl Acetate	2.450	43	42908	8.216	ppbv	100
24) 1,1-Dichloroethane	2.399	63	211973	9.375	ppbv	100
25) Ethyl Acetate	2.819	43	618469	10.022	ppbv	100
26) Hexane	2.813	57	246127	10.368	ppbv	100
27) Carbon Disulfide	2.143	76	267294	9.537	ppbv	100
28) Methyl tert-Butyl Ether	2.428	73	144534	9.729	ppbv	100
29) Chloroform	2.836	83	387615	9.577	ppbv	100
30) Cyclohexane	3.839	84	209266	10.728	ppbv	100
31) cis-1,2-Dichloroethene	2.709	61	246505	10.101	ppbv	100
32) 1,1,1-Trichloroethane	3.353	97	381212	9.691	ppbv	100
34) 2-Butanone	2.544	43	342678	9.647	ppbv	100
35) Carbon Tetrachloride	3.745	117	398481	9.251	ppbv	100
36) Benzene	3.638	78	504680	10.090	ppbv	100
37) 1,2-Dichloroethane	3.201	62	286590	9.674	ppbv	100
38) Trichloroethene	4.525	130	214186	10.277	ppbv	100
39) 1,2-Dichloropropane	4.292	63	182987	9.870	ppbv	100
40) 1,4-Dioxane	4.554	88	82195	10.324	ppbv #	98
41) Tetrahydrofuran	3.036	42	196992	10.730	ppbv	100
42) Bromodichloromethane	4.467	83	412493	9.861	ppbv	100
43) Methyl Methacrylate	4.852	69	184960	11.139	ppbv	100
44) 2,2,4-Trimethylpentane	4.616	57	834185	10.393	ppbv	100
45) t-1,3-Dichloropropene	6.386	75	164433	10.931	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043032.D
 Acq On : 02 Oct 2025 10:23
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:01:20 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	230231	10.772	ppbv	100
47) 1,1,2-Trichloroethane	6.551	97	196990	9.552	ppbv	100
48) Dibromochloromethane	7.364	129	345945	10.278	ppbv	100
49) Bromoform	9.464	173	292987	10.423	ppbv	100
50) 4-Methyl-2-Pentanone	5.713	43	476242	10.994	ppbv	100
51) 2-Hexanone	7.412	43	362983	11.817	ppbv	100
52) Tetrachloroethene	8.205	164	180664	9.693	ppbv	100
53) Toluene	6.907	91	568843	11.265	ppbv	100
54) 1,2-Dibromoethane	7.629	107	251974	10.309	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.907	131	264925	9.693	ppbv	100
57) Chlorobenzene	8.904	112	455049	9.600	ppbv	100
58) Ethyl Benzene	9.338	91	788510	11.351	ppbv	100
59) m/p-Xylene	9.532	91	1293839m	22.074	ppbv	
60) o-Xylene	9.946	91	645403	11.058	ppbv	100
61) Styrene	9.853	104	298597	12.212	ppbv	100
62) Isopropylbenzene	10.526	105	960158	10.716	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.946	83	390289	9.278	ppbv	100
64) n-propylbenzene	10.976	120	252073	10.998	ppbv	99
65) tert-Butylbenzene	11.516	119	864475	10.841	ppbv	100
66) Benzyl Chloride	11.604	91	30823	9.975	ppbv	100
67) sec-Butylbenzene	11.752	105	1189296	10.688	ppbv	100
69) p-Isopropyltoluene	11.914	119	1008951	11.146	ppbv	100
70) n-Butylbenzene	12.267	91	996449	11.433	ppbv	100
71) 2-Chlorotoluene	10.885	91	709807	10.946	ppbv	100
72) 4-Ethyltoluene	11.112	105	785118	11.302	ppbv	100
73) 1,3,5-Trimethylbenzene	11.189	105	659038	10.966	ppbv	100
74) 1,2,4-Trimethylbenzene	11.523	105	732252	10.796	ppbv	100
75) 1,3-Dichlorobenzene	11.594	146	437848	9.925	ppbv	100
76) 1,4-Dichlorobenzene	11.659	146	433712	10.311	ppbv	100
77) 1,2-Dichlorobenzene	11.934	146	417019	9.491	ppbv	100
78) Hexachloro-1,3-Butadiene	13.869	225	289398	9.452	ppbv	100
79) Naphthalene	13.500	128	577659	10.038	ppbv	100
80) Naphthalene,2-methyl-	14.445	142	254437	9.510	ppbv	100
81) 1,2,4-Trichlorobenzene	13.429	180	312011	11.936	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Oct 03 08:01:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043033.D
 Acq On : 02 Oct 2025 10:57
 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 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:02:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	179740	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	541054	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	447624	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 327830 10.167 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	61057	2.016	ppbv	97
3) Chlorodifluoromethane	1.470	51	60544	2.066	ppbv	97
4) Chloromethane	1.528	50	22071	1.995	ppbv	98
5) Vinyl Chloride	1.573	62	20286	1.932	ppbv	98
6) Bromomethane	1.661	94	9696	2.055	ppbv	97
7) Chloroethane	1.696	64	9205	2.101	ppbv	96
8) Dichlorotetrafluoroethane	1.547	85	51709	2.083	ppbv	98
9) Propene	1.479	41	25044	2.119	ppbv	93
10) Heptane	4.952	43	59306	2.038	ppbv	98
11) Trichlorofluoromethane	1.871	101	63315	2.034	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	50042	2.041	ppbv	100
13) Ethanol	1.716	45	1472	2.168	ppbv #	58
14) Bromoethene	1.774	108	18006	2.048	ppbv	98
15) Acetone	1.829	43	52918	2.103	ppbv	95
16) 1,3-Butadiene	1.602	39	21968	2.117	ppbv	96
17) tert-Butyl alcohol	2.030	59	51640	1.940	ppbv	98
18) 1,1-Dichloroethene	2.023	96	21932	2.040	ppbv	98
19) Isopropyl Alcohol	1.877	45	23979	1.989	ppbv #	80
20) Methylene Chloride	2.052	84	20728	1.887	ppbv	95
21) Allyl Chloride	2.085	41	33088	2.052	ppbv	98
22) trans-1,2-Dichloroethene	2.331	96	24306	1.992	ppbv	95
23) Vinyl Acetate	2.450	43	11081	2.074	ppbv #	92
24) 1,1-Dichloroethane	2.395	63	46548	2.012	ppbv	99
25) Ethyl Acetate	2.819	43	130995	2.075	ppbv	99
26) Hexane	2.813	57	50777	2.091	ppbv	96
27) Carbon Disulfide	2.140	76	56650	1.976	ppbv #	70
28) Methyl tert-Butyl Ether	2.428	73	31189	2.052	ppbv	99
29) Chloroform	2.832	83	83628	2.020	ppbv	99
30) Cyclohexane	3.836	84	41150	2.062	ppbv	96
31) cis-1,2-Dichloroethene	2.706	61	51609	2.067	ppbv	95
32) 1,1,1-Trichloroethane	3.350	97	81078	2.015	ppbv	99
34) 2-Butanone	2.544	43	75222	2.049	ppbv	100
35) Carbon Tetrachloride	3.739	117	83331	1.872	ppbv	98
36) Benzene	3.635	78	105052	2.032	ppbv	98
37) 1,2-Dichloroethane	3.201	62	61665	2.014	ppbv	100
38) Trichloroethene	4.519	130	43500	2.020	ppbv	98
39) 1,2-Dichloropropane	4.289	63	38286	1.998	ppbv	97
40) 1,4-Dioxane	4.564	88	16471m	2.002	ppbv	
41) Tetrahydrofuran	3.043	42	39501	2.082	ppbv	98
42) Bromodichloromethane	4.464	83	85622	1.981	ppbv	94
43) Methyl Methacrylate	4.852	69	33288	1.940	ppbv	96
44) 2,2,4-Trimethylpentane	4.609	57	171998	2.074	ppbv	99
45) t-1,3-Dichloropropene	6.383	75	30227	1.944	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043033.D
 Acq On : 02 Oct 2025 10:57
 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 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:02:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.567	75	42818	1.938	ppbv	90
47) 1,1,2-Trichloroethane	6.548	97	42719	2.004	ppbv	93
48) Dibromochloromethane	7.357	129	69735	2.005	ppbv	100
49) Bromoform	9.461	173	58655	2.019	ppbv	99
50) 4-Methyl-2-Pentanone	5.719	43	88751	1.982	ppbv	100
51) 2-Hexanone	7.412	43	62520	1.969	ppbv #	96
52) Tetrachloroethene	8.202	164	38059	1.976	ppbv	97
53) Toluene	6.907	91	104582	2.004	ppbv	100
54) 1,2-Dibromoethane	7.629	107	50973	2.018	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.901	131	54924	2.013	ppbv	95
57) Chlorobenzene	8.901	112	97190	2.054	ppbv	99
58) Ethyl Benzene	9.335	91	143037	2.063	ppbv	97
59) m/p-Xylene	9.529	91	250936m	4.289	ppbv	
60) o-Xylene	9.946	91	124006	2.128	ppbv	98
61) Styrene	9.849	104	46782	1.917	ppbv	98
62) Isopropylbenzene	10.523	105	186358	2.084	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.943	83	84916	2.022	ppbv	99
64) n-propylbenzene	10.972	120	48346	2.113	ppbv	90
65) tert-Butylbenzene	11.516	119	172968	2.173	ppbv	99
66) Benzyl Chloride	11.597	91	5886	1.908	ppbv	99
67) sec-Butylbenzene	11.752	105	245463	2.210	ppbv	99
69) p-Isopropyltoluene	11.911	119	200038	2.214	ppbv	99
70) n-Butylbenzene	12.267	91	192286	2.210	ppbv	98
71) 2-Chlorotoluene	10.885	91	136276	2.105	ppbv	99
72) 4-Ethyltoluene	11.108	105	147421	2.126	ppbv	99
73) 1,3,5-Trimethylbenzene	11.186	105	127419	2.124	ppbv	94
74) 1,2,4-Trimethylbenzene	11.519	105	150033	2.216	ppbv	98
75) 1,3-Dichlorobenzene	11.591	146	92272	2.095	ppbv	99
76) 1,4-Dichlorobenzene	11.655	146	88602	2.110	ppbv	99
77) 1,2-Dichlorobenzene	11.930	146	92779	2.115	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	65408	2.140	ppbv	99
79) Naphthalene	13.500	128	99793	2.006	ppbv	97
80) Naphthalene,2-methyl-	14.445	142	24913	1.530	ppbv	92
81) 1,2,4-Trichlorobenzene	13.426	180	56312	2.158	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043034.D
 Acq On : 02 Oct 2025 11:29
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:03:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	174129	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	522004	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	431704	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.357 95 313212 10.071 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	31391	1.070	ppbv	98
3) Chlorodifluoromethane	1.470	51	29622	1.043	ppbv	97
4) Chloromethane	1.528	50	11539	1.076	ppbv	91
5) Vinyl Chloride	1.573	62	9984	0.981	ppbv	98
6) Bromomethane	1.661	94	4926	1.078	ppbv	97
7) Chloroethane	1.699	64	4474	1.054	ppbv	90
8) Dichlorotetrafluoroethane	1.547	85	24892	1.035	ppbv	98
9) Propene	1.479	41	12033	1.051	ppbv	97
10) Heptane	4.952	43	27247	0.966	ppbv	98
11) Trichlorofluoromethane	1.871	101	32491	1.077	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.130	101	24551	1.034	ppbv	99
13) Ethanol	1.716	45	849	0.777	ppbv #	48
14) Bromoethene	1.774	108	8693	1.021	ppbv #	94
15) Acetone	1.829	43	27190	1.115	ppbv	97
16) 1,3-Butadiene	1.602	39	10229	1.018	ppbv	100
17) tert-Butyl alcohol	2.033	59	27609	1.071	ppbv	96
18) 1,1-Dichloroethene	2.026	96	10892	1.046	ppbv	94
19) Isopropyl Alcohol	1.877	45	12661	1.084	ppbv	86
20) Methylene Chloride	2.052	84	11906	1.119	ppbv #	92
21) Allyl Chloride	2.088	41	15455	0.989	ppbv	96
22) trans-1,2-Dichloroethene	2.331	96	12411	1.050	ppbv	99
23) Vinyl Acetate	2.450	43	5498	1.062	ppbv #	77
24) 1,1-Dichloroethane	2.399	63	23773	1.061	ppbv	97
25) Ethyl Acetate	2.823	43	63776	1.043	ppbv	100
26) Hexane	2.813	57	22126	0.940	ppbv	80
27) Carbon Disulfide	2.140	76	28818	1.037	ppbv #	62
28) Methyl tert-Butyl Ether	2.428	73	15176	1.031	ppbv	99
29) Chloroform	2.832	83	41697	1.039	ppbv	99
30) Cyclohexane	3.839	84	18605	0.962	ppbv	97
31) cis-1,2-Dichloroethene	2.709	61	24206	1.001	ppbv	97
32) 1,1,1-Trichloroethane	3.350	97	38581	0.990	ppbv	95
34) 2-Butanone	2.544	43	35775	1.010	ppbv	100
35) Carbon Tetrachloride	3.742	117	41999	0.978	ppbv	94
36) Benzene	3.638	78	51343	1.029	ppbv	95
37) 1,2-Dichloroethane	3.201	62	30102	1.019	ppbv	99
38) Trichloroethene	4.519	130	22132	1.065	ppbv	90
39) 1,2-Dichloropropane	4.289	63	18915	1.023	ppbv	90
40) 1,4-Dioxane	4.564	88	7860m	0.990	ppbv	
41) Tetrahydrofuran	3.043	42	17630	0.963	ppbv	98
42) Bromodichloromethane	4.460	83	42012	1.007	ppbv	89
43) Methyl Methacrylate	4.849	69	14911	0.901	ppbv	95
44) 2,2,4-Trimethylpentane	4.609	57	77988	0.975	ppbv	96
45) t-1,3-Dichloropropene	6.380	75	13974	0.932	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043034.D
 Acq On : 02 Oct 2025 11:29
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:03:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

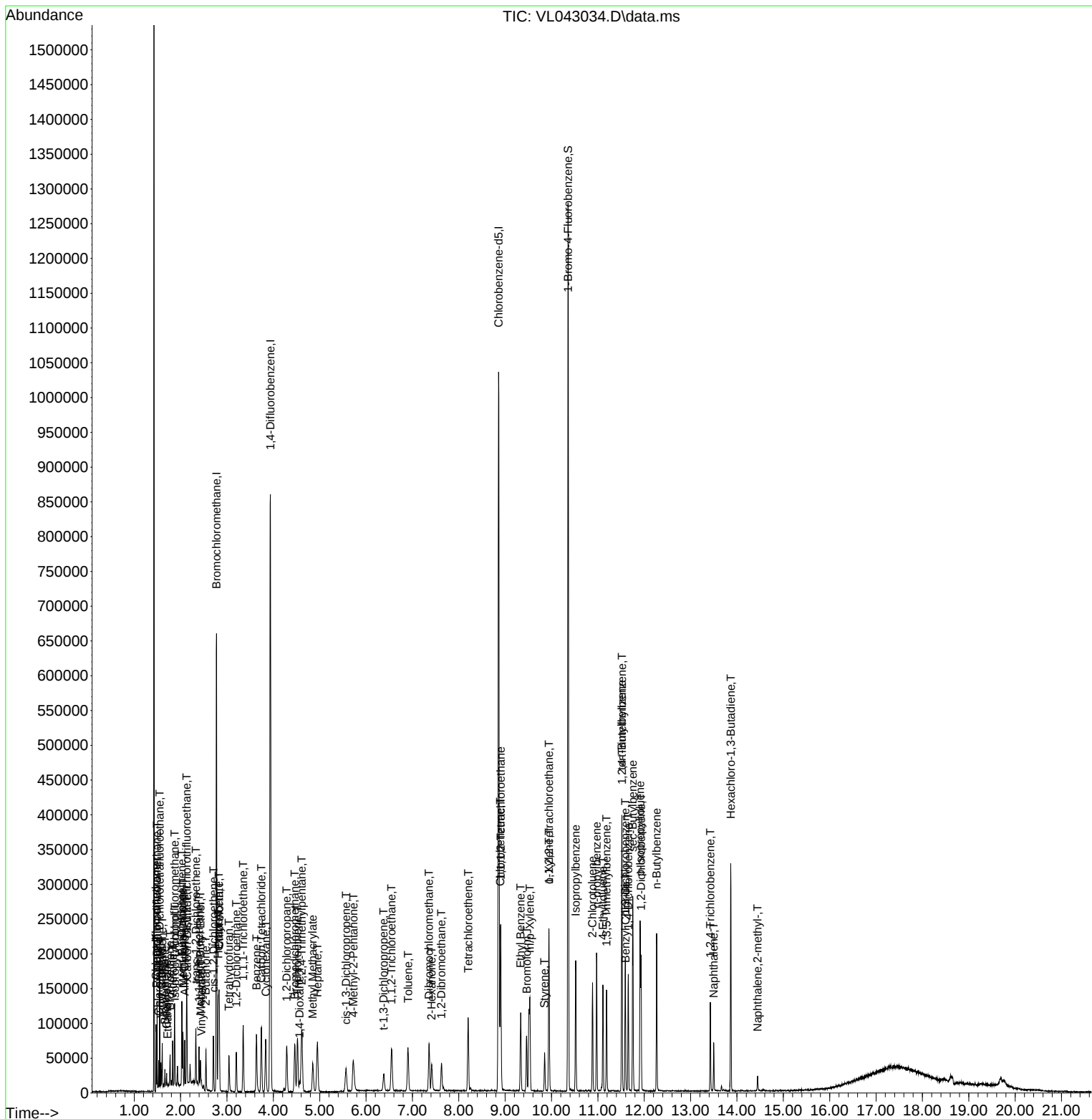
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.570	75	20141m	0.945	ppbv	
47) 1,1,2-Trichloroethane	6.548	97	21164	1.029	ppbv #	85
48) Dibromochloromethane	7.357	129	33636	1.002	ppbv	100
49) Bromoform	9.464	173	26918	0.960	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	39803	0.922	ppbv	98
51) 2-Hexanone	7.415	43	26904	0.878	ppbv #	95
52) Tetrachloroethene	8.202	164	17908	0.964	ppbv	97
53) Toluene	6.904	91	45974	0.913	ppbv	98
54) 1,2-Dibromoethane	7.626	107	24648	1.011	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.904	131	26884	1.022	ppbv	95
57) Chlorobenzene	8.898	112	47296	1.036	ppbv	97
58) Ethyl Benzene	9.335	91	59544	0.890	ppbv	97
59) m/p-Xylene	9.532	91	106322m	1.884	ppbv	
60) o-Xylene	9.943	91	52489	0.934	ppbv	100
61) Styrene	9.849	104	19376	0.823	ppbv	97
62) Isopropylbenzene	10.523	105	82825	0.960	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.943	83	40981	1.012	ppbv	99
64) n-propylbenzene	10.972	120	21190	0.960	ppbv	96
65) tert-Butylbenzene	11.516	119	74677	0.973	ppbv	99
66) Benzyl Chloride	11.597	91	2866	0.963	ppbv	98
67) sec-Butylbenzene	11.752	105	106876	0.998	ppbv	100
69) p-Isopropyltoluene	11.911	119	81108	0.931	ppbv	99
70) n-Butylbenzene	12.267	91	76664	0.914	ppbv	97
71) 2-Chlorotoluene	10.885	91	58174	0.932	ppbv	100
72) 4-Ethyltoluene	11.108	105	61540	0.920	ppbv	98
73) 1,3,5-Trimethylbenzene	11.189	105	54851	0.948	ppbv	94
74) 1,2,4-Trimethylbenzene	11.519	105	64405	0.986	ppbv	98
75) 1,3-Dichlorobenzene	11.591	146	42580	1.003	ppbv	98
76) 1,4-Dichlorobenzene	11.655	146	40098	0.990	ppbv	100
77) 1,2-Dichlorobenzene	11.930	146	44771	1.058	ppbv	99
78) Hexachloro-1,3-Butadiene	13.866	225	30422	1.032	ppbv	99
79) Naphthalene	13.497	128	32191	0.831	ppbv	98
80) Naphthalene,2-methyl-	14.442	142	7210	0.923	ppbv	99
81) 1,2,4-Trichlorobenzene	13.426	180	20534	0.816	ppbv	100

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

Manual Integrations

Quant Time: Oct 03 08:03:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043036.D
 Acq On : 02 Oct 2025 12:35
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:04:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	175730	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.936	114	510906	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.859	117	418551	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.358	95	289539	9.603	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.000%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.573	62	1208	0.118	ppbv	96
32) 1,1,1-Trichloroethane	3.350	97	3686	0.094	ppbv	96
35) Carbon Tetrachloride	3.739	117	4230	0.101	ppbv #	91
38) Trichloroethene	4.522	130	1971m	0.097	ppbv	
52) Tetrachloroethene	8.199	164	1674	0.092	ppbv #	75
54) 1,2-Dibromoethane	7.626	107	2275m	0.095	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.946	83	3701	0.094	ppbv	93
79) Naphthalene	13.500	128	1393	0.261	ppbv #	94

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

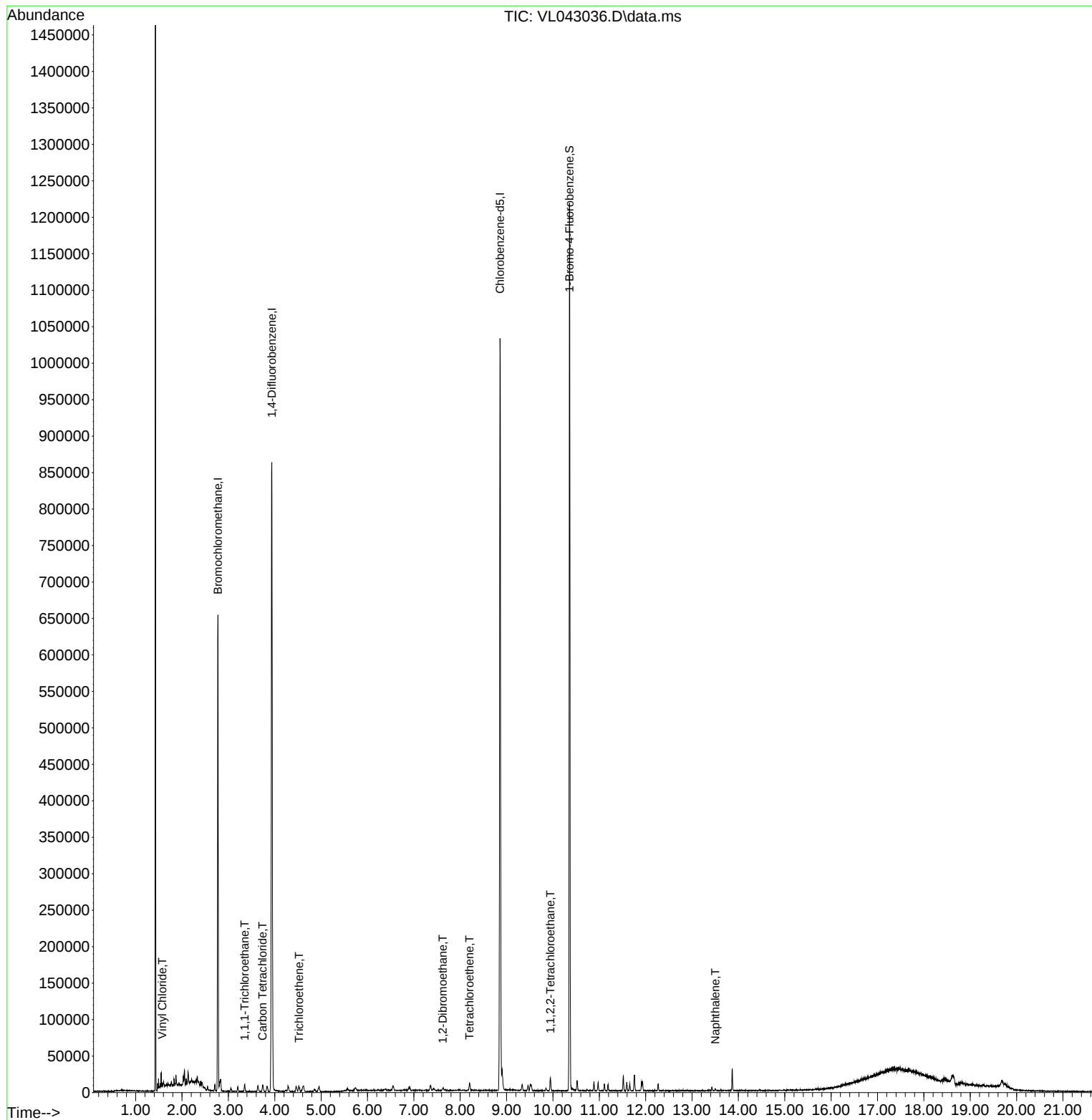
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Data File : VL043036.D
Acq On : 02 Oct 2025 12:35
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:04:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043037.D
 Acq On : 02 Oct 2025 13:07
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:05:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	172214	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	493591	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	408184	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	280877	9.552	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						
						Qvalue
32) 1,1,1-Trichloroethane	3.353	97	1314m	0.034	ppbv	
35) Carbon Tetrachloride	3.748	117	1490m	0.037	ppbv	
52) Tetrachloroethene	8.205	164	628m	0.036	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.947	83	1322	0.035	ppbv	96

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

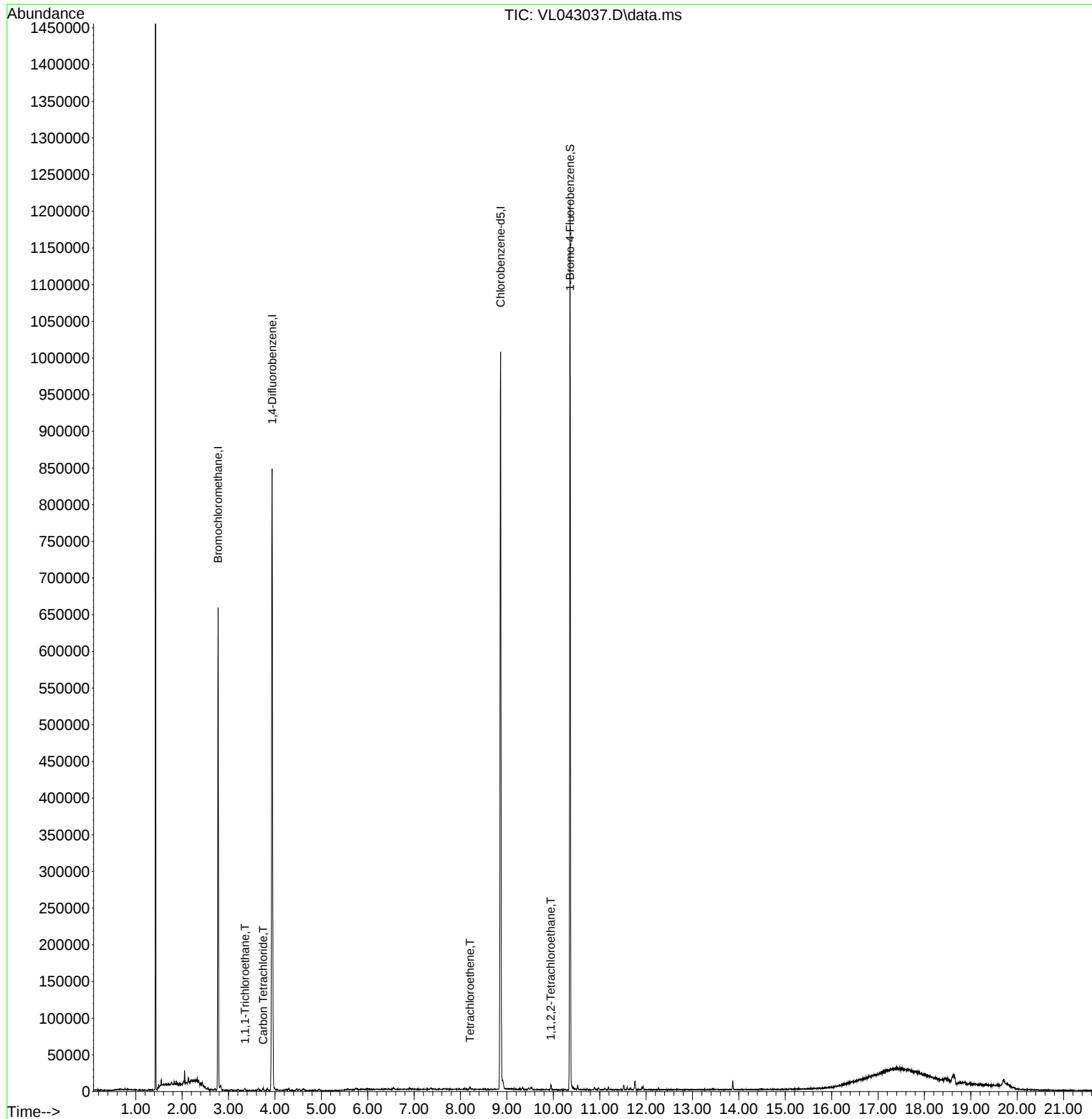
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043037.D
Acq On : 02 Oct 2025 13:07
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Oct 03 08:05:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Oct 03 07:59:23 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
Supervised By : Mahesh Dadoda 10/10/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043038.D
 Acq On : 02 Oct 2025 13:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:06:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	174781	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	521075	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.862	117	446323	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.361 95 331763 10.318 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.493	85	417041	14.157	ppbv	100
3) Chlorodifluoromethane	1.470	51	396783	13.924	ppbv	100
4) Chloromethane	1.528	50	152053	14.131	ppbv	100
5) Vinyl Chloride	1.573	62	143710	14.073	ppbv	98
6) Bromomethane	1.661	94	66123	14.410	ppbv	97
7) Chloroethane	1.700	64	58804	13.801	ppbv	97
8) Dichlorotetrafluoroethane	1.551	85	342721	14.198	ppbv	100
9) Propene	1.480	41	159689	13.898	ppbv	97
10) Heptane	4.956	43	465543	16.450	ppbv	99
11) Trichlorofluoromethane	1.871	101	430473	14.220	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.130	101	337263	14.145	ppbv	97
13) Ethanol	1.713	45	6726	14.884	ppbv	94
14) Bromoethene	1.774	108	123040	14.394	ppbv	99
15) Acetone	1.826	43	302724	12.370	ppbv	100
16) 1,3-Butadiene	1.603	39	142349	14.108	ppbv	99
17) tert-Butyl alcohol	2.030	59	352251	13.608	ppbv	100
18) 1,1-Dichloroethene	2.027	96	150012	14.353	ppbv	98
19) Isopropyl Alcohol	1.878	45	154373	13.166	ppbv	98
20) Methylene Chloride	2.053	84	130116	12.181	ppbv	96
21) Allyl Chloride	2.088	41	223371	14.247	ppbv	99
22) trans-1,2-Dichloroethene	2.331	96	169834	14.313	ppbv	96
23) Vinyl Acetate	2.454	43	60446	11.634	ppbv #	96
24) 1,1-Dichloroethane	2.399	63	320234	14.237	ppbv	100
25) Ethyl Acetate	2.820	43	909988	14.822	ppbv	100
26) Hexane	2.813	57	370003	15.667	ppbv	98
27) Carbon Disulfide	2.143	76	404552	14.510	ppbv	99
28) Methyl tert-Butyl Ether	2.428	73	213111	14.420	ppbv	99
29) Chloroform	2.836	83	576414	14.316	ppbv	99
30) Cyclohexane	3.836	84	314603	16.212	ppbv	99
31) cis-1,2-Dichloroethene	2.710	61	363768	14.984	ppbv	99
32) 1,1,1-Trichloroethane	3.354	97	573214	14.648	ppbv	100
34) 2-Butanone	2.545	43	511000	14.453	ppbv	100
35) Carbon Tetrachloride	3.745	117	604277	14.095	ppbv	97
36) Benzene	3.638	78	748168	15.028	ppbv	98
37) 1,2-Dichloroethane	3.205	62	431043	14.619	ppbv	100
38) Trichloroethene	4.525	130	317772	15.319	ppbv	99
39) 1,2-Dichloropropane	4.289	63	269729	14.617	ppbv	98
40) 1,4-Dioxane	4.554	88	120237	15.173	ppbv #	95
41) Tetrahydrofuran	3.036	42	295205	16.155	ppbv	100
42) Bromodichloromethane	4.464	83	619944	14.890	ppbv	96
43) Methyl Methacrylate	4.852	69	279674	16.923	ppbv	99
44) 2,2,4-Trimethylpentane	4.616	57	1251093	15.661	ppbv	99
45) t-1,3-Dichloropropene	6.386	75	251549	16.802	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043038.D
 Acq On : 02 Oct 2025 13:41
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:06:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.571	75	351325	16.515	ppbv	100
47) 1,1,2-Trichloroethane	6.555	97	296142	14.428	ppbv	98
48) Dibromochloromethane	7.364	129	512219	15.290	ppbv	100
49) Bromoform	9.468	173	449641	16.072	ppbv	100
50) 4-Methyl-2-Pentanone	5.713	43	723710	16.786	ppbv	100
51) 2-Hexanone	7.409	43	562773	18.407	ppbv	100
52) Tetrachloroethene	8.205	164	270386	14.575	ppbv	98
53) Toluene	6.911	91	858713	17.085	ppbv	100
54) 1,2-Dibromoethane	7.629	107	378193	15.546	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.908	131	394995	14.519	ppbv	100
57) Chlorobenzene	8.904	112	670949	14.220	ppbv	99
58) Ethyl Benzene	9.338	91	1190670	17.220	ppbv	99
59) m/p-Xylene	9.536	91	1936045m	33.184	ppbv	
60) o-Xylene	9.947	91	969480	16.688	ppbv	99
61) Styrene	9.853	104	462847	19.017	ppbv	100
62) Isopropylbenzene	10.526	105	1455778	16.324	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.947	83	593157	14.167	ppbv	100
64) n-propylbenzene	10.976	120	387627	16.991	ppbv	95
65) tert-Butylbenzene	11.520	119	1283802	16.175	ppbv	99
66) Benzyl Chloride	11.604	91	50421	16.394	ppbv	99
67) sec-Butylbenzene	11.756	105	1758282	15.875	ppbv	98
69) p-Isopropyltoluene	11.915	119	1493674	16.578	ppbv	99
70) n-Butylbenzene	12.271	91	1480662	17.067	ppbv	98
71) 2-Chlorotoluene	10.889	91	1085558	16.819	ppbv	100
72) 4-Ethyltoluene	11.112	105	1190551	17.218	ppbv	99
73) 1,3,5-Trimethylbenzene	11.190	105	1001678	16.745	ppbv	100
74) 1,2,4-Trimethylbenzene	11.523	105	1091026	16.160	ppbv	95
75) 1,3-Dichlorobenzene	11.594	146	665205	15.149	ppbv	100
76) 1,4-Dichlorobenzene	11.659	146	656125	15.671	ppbv	99
77) 1,2-Dichlorobenzene	11.934	146	632662	14.465	ppbv	99
78) Hexachloro-1,3-Butadiene	13.870	225	435408	14.288	ppbv	100
79) Naphthalene	13.501	128	887779	14.984	ppbv	99
80) Naphthalene,2-methyl-	14.446	142	421038	15.372	ppbv	99
81) 1,2,4-Trichlorobenzene	13.429	180	489642	18.818	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043038.D
 Acq On : 02 Oct 2025 13:41
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 10/03/2025
 Supervised By :Mahesh Dadoda 10/10/2025

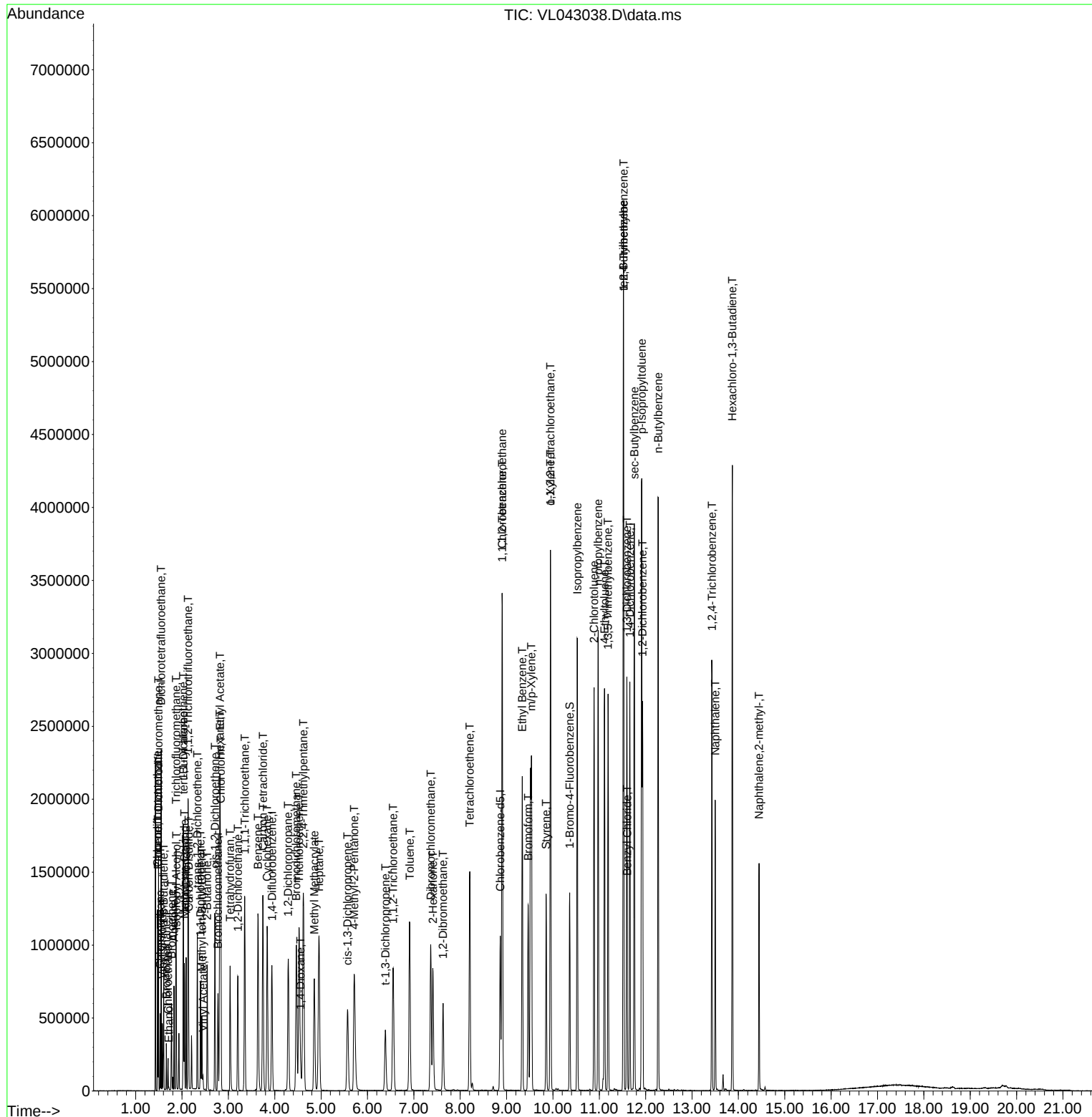
Quant Time: Oct 03 08:06:14 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 07:59:23 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:22:04 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

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

Internal Standards						
1) Bromochloromethane	2.777	49	178544	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.939	114	537412	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.866	117	454012	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 333843 10.207 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	287085	9.540	ppbv	100
3) Chlorodifluoromethane	1.473	51	275618	9.468	ppbv	99
4) Chloromethane	1.528	50	104427	9.501	ppbv	98
5) Vinyl Chloride	1.577	62	98850	9.476	ppbv	97
6) Bromomethane	1.664	94	46326	9.883	ppbv	97
7) Chloroethane	1.700	64	40636	9.336	ppbv	98
8) Dichlorotetrafluoroethane	1.551	85	235901	9.567	ppbv	99
9) Propene	1.480	41	115956	9.879	ppbv	99
10) Heptane	4.956	43	311038	10.779	ppbv	100
11) Trichlorofluoromethane	1.871	101	291376	9.422	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.133	101	228314	9.374	ppbv	97
13) Ethanol	1.716	45	4643	9.646	ppbv	98
14) Bromoethene	1.777	108	85349	9.774	ppbv	99
15) Acetone	1.829	43	204381	8.176	ppbv	100
16) 1,3-Butadiene	1.606	39	95179	9.234	ppbv	99
17) tert-Butyl alcohol	2.033	59	249385	9.431	ppbv	99
18) 1,1-Dichloroethene	2.026	96	101929	9.547	ppbv	95
19) Isopropyl Alcohol	1.878	45	109403	9.134	ppbv	99
20) Methylene Chloride	2.056	84	89214	8.176	ppbv	97
21) Allyl Chloride	2.088	41	151234	9.443	ppbv	99
22) trans-1,2-Dichloroethene	2.331	96	115000	9.487	ppbv	97
23) Vinyl Acetate	2.454	43	45886	8.646	ppbv	97
24) 1,1-Dichloroethane	2.399	63	217319	9.458	ppbv	98
25) Ethyl Acetate	2.823	43	628433	10.021	ppbv	100
26) Hexane	2.816	57	253815	10.521	ppbv	98
27) Carbon Disulfide	2.143	76	273348	9.598	ppbv	99
28) Methyl tert-Butyl Ether	2.431	73	147450	9.767	ppbv	99
29) Chloroform	2.836	83	388247	9.439	ppbv	100
30) Cyclohexane	3.839	84	216007	10.896	ppbv	98
31) cis-1,2-Dichloroethene	2.709	61	249555	10.063	ppbv	97
32) 1,1,1-Trichloroethane	3.354	97	387043	9.682	ppbv	100
34) 2-Butanone	2.544	43	346463	9.501	ppbv	100
35) Carbon Tetrachloride	3.745	117	399311	9.031	ppbv	96
36) Benzene	3.642	78	514339	10.017	ppbv	98
37) 1,2-Dichloroethane	3.205	62	289339	9.515	ppbv	100
38) Trichloroethene	4.528	130	213727	9.992	ppbv	98
39) 1,2-Dichloropropane	4.292	63	183886	9.662	ppbv	97
40) 1,4-Dioxane	4.558	88	80249	9.831	ppbv #	98
41) Tetrahydrofuran	3.040	42	201471	10.690	ppbv	100
42) Bromodichloromethane	4.467	83	413457	9.629	ppbv	98
43) Methyl Methacrylate	4.855	69	189993	11.147	ppbv	99
44) 2,2,4-Trimethylpentane	4.619	57	847766	10.290	ppbv	99
45) t-1,3-Dichloropropene	6.389	75	164370	10.538	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 10/03/2025
 Supervised By : Mahesh Dadoda 10/10/2025

Quant Time: Oct 03 08:24:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:22:04 2025

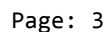
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.574	75	232895	10.597	ppbv	98
47) 1,1,2-Trichloroethane	6.558	97	196496	9.282	ppbv	97
48) Dibromochloromethane	7.367	129	336813	9.749	ppbv	99
49) Bromoform	9.468	173	275751	9.557	ppbv	100
50) 4-Methyl-2-Pentanone	5.720	43	484498	10.896	ppbv	100
51) 2-Hexanone	7.412	43	355624	11.236	ppbv	99
52) Tetrachloroethene	8.208	164	182062	9.576	ppbv	99
53) Toluene	6.911	91	572257	11.040	ppbv	100
54) 1,2-Dibromoethane	7.632	107	247276	9.855	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.908	131	259863	9.390	ppbv	99
57) Chlorobenzene	8.904	112	447850	9.331	ppbv	100
58) Ethyl Benzene	9.338	91	775232	11.022	ppbv	98
59) m/p-Xylene	9.535	91	1265386m	21.330	ppbv	
60) o-Xylene	9.950	91	628486	10.635	ppbv	99
61) Styrene	9.856	104	284955	11.510	ppbv	100
62) Isopropylbenzene	10.526	105	939236	10.353	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.950	83	360837	8.511	ppbv	99
64) n-propylbenzene	10.976	120	240769	10.375	ppbv	98
65) tert-Butylbenzene	11.520	119	814322	10.086	ppbv	100
66) Benzyl Chloride	11.604	91	26124	8.466	ppbv	99
67) sec-Butylbenzene	11.756	105	1122743	9.965	ppbv	99
69) p-Isopropyltoluene	11.914	119	937600	10.230	ppbv	100
70) n-Butylbenzene	12.270	91	913299	10.349	ppbv	100
71) 2-Chlorotoluene	10.888	91	673074	10.251	ppbv	100
72) 4-Ethyltoluene	11.112	105	744145	10.579	ppbv	100
73) 1,3,5-Trimethylbenzene	11.193	105	621377	10.212	ppbv	100
74) 1,2,4-Trimethylbenzene	11.526	105	684740	9.971	ppbv	93
75) 1,3-Dichlorobenzene	11.594	146	409217	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.659	146	398965	9.368	ppbv	100
77) 1,2-Dichlorobenzene	11.934	146	384233	8.636	ppbv	99
78) Hexachloro-1,3-Butadiene	13.869	225	289545	9.340	ppbv	99
79) Naphthalene	13.500	128	552627	9.523	ppbv	99
80) Naphthalene,2-methyl-	14.445	142	223063	8.323	ppbv	98
81) 1,2,4-Trichlorobenzene	13.429	180	317372	11.990	ppbv	100

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

Manual Integrations

Quant Time: Oct 03 08:24:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:22:04 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 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	102	0.00
2 T	Dichlorodifluoromethane	1.685	1.608	4.6	103	0.00
3	Chlorodifluoromethane	1.630	1.544	5.3	103	0.00
4	Chloromethane	0.616	0.585	5.0	103	0.00
5 T	Vinyl Chloride	0.584	0.554	5.1	104	0.00
6 T	Bromomethane	0.263	0.259	1.5	106	0.00
7	Chloroethane	0.244	0.228	6.6	104	0.00
8 T	Dichlorotetrafluoroethane	1.381	1.321	4.3	103	0.00
9 T	Propene	0.657	0.649	1.2	104	0.00
10 T	Heptane	1.616	1.742	-7.8	101	0.00
11 T	Trichlorofluoromethane	1.732	1.632	5.8	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.364	1.279	6.2	101	0.00
13	Ethanol	0.045	0.026#	42.2#	97	0.00
14 T	Bromoethene	0.489	0.478	2.2	104	0.00
15 T	Acetone	1.400	1.145	18.2	102	0.00
16 T	1,3-Butadiene	0.577	0.533	7.6	101	0.00
17	tert-Butyl alcohol	1.481	1.397	5.7	103	0.00
18 T	1,1-Dichloroethene	0.598	0.571	4.5	101	0.00
19 T	Isopropyl Alcohol	0.671	0.613	8.6	103	0.00
20 T	Methylene Chloride	0.611	0.500	18.2	104	0.00
21 T	Allyl Chloride	0.897	0.847	5.6	102	0.00
22 T	trans-1,2-Dichloroethene	0.679	0.644	5.2	103	0.00
23 T	Vinyl Acetate	0.297	0.257	13.5	107	0.00
24 T	1,1-Dichloroethane	1.287	1.217	5.4	103	0.00
25 T	Ethyl Acetate	3.513	3.520	-0.2	102	0.00
26 T	Hexane	1.351	1.422	-5.3	103	0.00
27 T	Carbon Disulfide	1.595	1.531	4.0	102	0.00
28 T	Methyl tert-Butyl Ether	0.846	0.826	2.4	102	0.00
29 T	Chloroform	2.304	2.175	5.6	100	0.00
30 T	Cyclohexane	1.110	1.210	-9.0	103	0.00
31 T	cis-1,2-Dichloroethene	1.389	1.398	-0.6	101	0.00
32 T	1,1,1-Trichloroethane	2.239	2.168	3.2	102	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	103	0.00
34 T	2-Butanone	0.679	0.645	5.0	101	0.00
35 T	Carbon Tetrachloride	0.823	0.743	9.7	100	0.00
36 T	Benzene	0.955	0.957	-0.2	102	0.00
37 T	1,2-Dichloroethane	0.566	0.538	4.9	101	0.00
38 T	Trichloroethene	0.398	0.398	0.0	100	0.00
39 T	1,2-Dichloropropane	0.354	0.342	3.4	100	0.00
40 T	1,4-Dioxane	0.152	0.149	2.0	98	0.00
41 T	Tetrahydrofuran	0.351	0.375	-6.8	102	0.00
42 T	Bromodichloromethane	0.799	0.769	3.8	100	0.00
43	Methyl Methacrylate	0.317	0.354	-11.7	103	0.00
44 T	2,2,4-Trimethylpentane	1.533	1.577	-2.9	102	0.00
45 T	t-1,3-Dichloropropene	0.290	0.306	-5.5	100	0.00
46 T	cis-1,3-Dichloropropene	0.409	0.433	-5.9	101	0.00
47 T	1,1,2-Trichloroethane	0.394	0.366	7.1	100	0.00
48 T	Dibromochloromethane	0.643	0.627	2.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 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	0.537	0.513	4.5	94	0.00
50 T	4-Methyl-2-Pentanone	0.827	0.902	-9.1	102	0.00
51 T	2-Hexanone	0.589	0.662	-12.4	98	0.00
52 T	Tetrachloroethene	0.354	0.339	4.2	101	0.00
53 T	Toluene	0.965	1.065	-10.4	101	0.00
54 T	1,2-Dibromoethane	0.467	0.460	1.5	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
56	1,1,1,2-Tetrachloroethane	0.610	0.572	6.2	98	0.00
57 T	Chlorobenzene	1.057	0.986	6.7	98	0.00
58 T	Ethyl Benzene	1.549	1.708	-10.3	98	0.00
59 T	m/p-Xylene	1.307	1.394	-6.7	98	0.00
60 T	o-Xylene	1.302	1.384	-6.3	97	0.00
61 T	Styrene	0.545	0.628	-15.2	95	0.00
62	Isopropylbenzene	1.998	2.069	-3.6	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.934	0.795	14.9	92	0.00
64	n-propylbenzene	0.511	0.530	-3.7	96	0.00
65	tert-Butylbenzene	1.778	1.794	-0.9	94	0.00
66 T	Benzyl Chloride	0.068	0.058	14.7	85	0.00
67	sec-Butylbenzene	2.482	2.473	0.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	0.720	0.735	-2.1	101	0.00
69	p-Isopropyltoluene	2.019	2.065	-2.3	93	0.00
70	n-Butylbenzene	1.944	2.012	-3.5	92	0.00
71	2-Chlorotoluene	1.446	1.483	-2.6	95	0.00
72 T	4-Ethyltoluene	1.549	1.639	-5.8	95	0.00
73 T	1,3,5-Trimethylbenzene	1.340	1.369	-2.2	94	0.00
74 T	1,2,4-Trimethylbenzene	1.513	1.508	0.3	94	0.00
75 T	1,3-Dichlorobenzene	0.984	0.901	8.4	93	0.00
76 T	1,4-Dichlorobenzene	0.938	0.879	6.3	92	0.00
77 T	1,2-Dichlorobenzene	0.980	0.846	13.7	92	0.00
78 T	Hexachloro-1,3-Butadiene	0.683	0.638	6.6	100	0.00
79 T	Naphthalene	0.903	1.217	-34.8#	96	0.00
80 T	Naphthalene,2-methyl-	0.457	0.491	-7.4	88	0.00
81 T	1,2,4-Trichlorobenzene	0.583	0.699	-19.9	102	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 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	102	0.00
2 T	Dichlorodifluoromethane	10.000	9.540	4.6	103	0.00
3	Chlorodifluoromethane	10.000	9.468	5.3	103	0.00
4	Chloromethane	10.000	9.501	5.0	103	0.00
5 T	Vinyl Chloride	10.000	9.476	5.2	104	0.00
6 T	Bromomethane	10.000	9.883	1.2	106	0.00
7	Chloroethane	10.000	9.336	6.6	104	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.567	4.3	103	0.00
9 T	Propene	10.000	9.879	1.2	104	0.00
10 T	Heptane	10.000	10.779	-7.8	101	0.00
11 T	Trichlorofluoromethane	10.000	9.422	5.8	102	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.374	6.3	101	0.00
13	Ethanol	10.000	9.646	3.5	97	0.00
14 T	Bromoethene	10.000	9.774	2.3	104	0.00
15 T	Acetone	10.000	8.176	18.2	102	0.00
16 T	1,3-Butadiene	10.000	9.234	7.7	101	0.00
17	tert-Butyl alcohol	10.000	9.431	5.7	103	0.00
18 T	1,1-Dichloroethene	10.000	9.547	4.5	101	0.00
19 T	Isopropyl Alcohol	10.000	9.134	8.7	103	0.00
20 T	Methylene Chloride	10.000	8.176	18.2	104	0.00
21 T	Allyl Chloride	10.000	9.443	5.6	102	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.487	5.1	103	0.00
23 T	Vinyl Acetate	10.000	8.646	13.5	107	0.00
24 T	1,1-Dichloroethane	10.000	9.458	5.4	103	0.00
25 T	Ethyl Acetate	10.000	10.021	-0.2	102	0.00
26 T	Hexane	10.000	10.521	-5.2	103	0.00
27 T	Carbon Disulfide	10.000	9.598	4.0	102	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.767	2.3	102	0.00
29 T	Chloroform	10.000	9.439	5.6	100	0.00
30 T	Cyclohexane	10.000	10.896	-9.0	103	0.00
31 T	cis-1,2-Dichloroethene	10.000	10.063	-0.6	101	0.00
32 T	1,1,1-Trichloroethane	10.000	9.682	3.2	102	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	103	0.00
34 T	2-Butanone	10.000	9.501	5.0	101	0.00
35 T	Carbon Tetrachloride	10.000	9.031	9.7	100	0.00
36 T	Benzene	10.000	10.017	-0.2	102	0.00
37 T	1,2-Dichloroethane	10.000	9.515	4.8	101	0.00
38 T	Trichloroethene	10.000	9.992	0.1	100	0.00
39 T	1,2-Dichloropropane	10.000	9.662	3.4	100	0.00
40 T	1,4-Dioxane	10.000	9.831	1.7	98	0.00
41 T	Tetrahydrofuran	10.000	10.690	-6.9	102	0.00
42 T	Bromodichloromethane	10.000	9.629	3.7	100	0.00
43	Methyl Methacrylate	10.000	11.147	-11.5	103	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.290	-2.9	102	0.00
45 T	t-1,3-Dichloropropene	10.000	10.538	-5.4	100	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.597	-6.0	101	0.00
47 T	1,1,2-Trichloroethane	10.000	9.282	7.2	100	0.00
48 T	Dibromochloromethane	10.000	9.749	2.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
 Data File : VL043039.D
 Acq On : 02 Oct 2025 14:14
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL100225

Quant Time: Oct 03 08:24:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:22:04 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	9.557	4.4	94	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.896	-9.0	102	0.00
51 T	2-Hexanone	10.000	11.236	-12.4	98	0.00
52 T	Tetrachloroethene	10.000	9.576	4.2	101	0.00
53 T	Toluene	10.000	11.040	-10.4	101	0.00
54 T	1,2-Dibromoethane	10.000	9.855	1.4	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	101	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.390	6.1	98	0.00
57 T	Chlorobenzene	10.000	9.331	6.7	98	0.00
58 T	Ethyl Benzene	10.000	11.022	-10.2	98	0.00
59 T	m/p-Xylene	20.000	21.330	-6.6	98	0.00
60 T	o-Xylene	10.000	10.635	-6.3	97	0.00
61 T	Styrene	10.000	11.510	-15.1	95	0.00
62	Isopropylbenzene	10.000	10.353	-3.5	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.511	14.9	92	0.00
64	n-propylbenzene	10.000	10.375	-3.8	96	0.00
65	tert-Butylbenzene	10.000	10.086	-0.9	94	0.00
66 T	Benzyl Chloride	10.000	8.466	15.3	85	0.00
67	sec-Butylbenzene	10.000	9.965	0.4	94	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.207	-2.1	101	0.00
69	p-Isopropyltoluene	10.000	10.230	-2.3	93	0.00
70	n-Butylbenzene	10.000	10.349	-3.5	92	0.00
71	2-Chlorotoluene	10.000	10.251	-2.5	95	0.00
72 T	4-Ethyltoluene	10.000	10.579	-5.8	95	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.212	-2.1	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.971	0.3	94	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	93	0.00
76 T	1,4-Dichlorobenzene	10.000	9.368	6.3	92	0.00
77 T	1,2-Dichlorobenzene	10.000	8.636	13.6	92	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.340	6.6	100	0.00
79 T	Naphthalene	10.000	9.523	4.8	96	0.00
80 T	Naphthalene,2-methyl-	10.000	8.323	16.8	88	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.990	-19.9	102	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3306</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>10/08/2025 08:54</u>
Lab File ID:	<u>VL043054.D</u>	Init. Calib. Date(s):	<u>10/02/2025 10/02/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>09:50 13:41</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.584	0.574		-1.71	30
Heptane	1.616	1.775		9.84	30
1,1-Dichloroethane	1.287	1.264		-1.79	30
Cyclohexane	1.110	1.153		3.87	30
cis-1,2-Dichloroethene	1.389	1.331		-4.18	30
1,1,1-Trichloroethane	2.239	2.130		-4.87	30
2,2,4-Trimethylpentane	1.533	1.748		14.02	30
Benzene	0.955	1.013		6.07	30
Trichloroethene	0.398	0.422		6.03	30
Toluene	0.965	1.094		13.37	30
Tetrachloroethene	0.354	0.348		-1.7	30
Ethyl Benzene	1.549	1.843		18.98	30
m/p-Xylene	1.307	1.557		19.13	30
o-Xylene	1.302	1.558		19.66	30
1,3,5-Trimethylbenzene	1.340	1.538		14.78	30
1,2,4-Trimethylbenzene	1.513	1.733		14.54	30
Naphthalene	0.903	1.337		48.06	30
1-Bromo-4-Fluorobenzene	0.720	0.782		8.61	30
Hexane	1.351	1.423		5.33	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\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 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 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:12:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	178633	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.962	114	491196	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.891	117	404989	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 316847 10.860 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 108.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	300021	9.965	ppbv	100
3) Chlorodifluoromethane	1.479	51	285882	9.816	ppbv	99
4) Chloromethane	1.534	50	110739	10.070	ppbv	100
5) Vinyl Chloride	1.583	62	102462	9.817	ppbv	99
6) Bromomethane	1.670	94	47015	10.025	ppbv	100
7) Chloroethane	1.706	64	43231	9.927	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	244404	9.907	ppbv	100
9) Propene	1.486	41	110049	9.371	ppbv	97
10) Heptane	4.988	43	317138	10.984	ppbv	100
11) Trichlorofluoromethane	1.881	101	308928	9.985	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	235021	9.645	ppbv	100
13) Ethanol	1.722	45	4836	10.094	ppbv	94
14) Bromoethene	1.784	108	84786	9.705	ppbv	99
15) Acetone	1.835	43	218946	8.754	ppbv	99
16) 1,3-Butadiene	1.612	39	102003	9.892	ppbv	98
17) tert-Butyl alcohol	2.042	59	253647	9.587	ppbv	99
18) 1,1-Dichloroethene	2.036	96	102910	9.634	ppbv	96
19) Isopropyl Alcohol	1.887	45	110173	9.194	ppbv	95
20) Methylene Chloride	2.065	84	91496	8.381	ppbv	96
21) Allyl Chloride	2.097	41	156853	9.789	ppbv	99
22) trans-1,2-Dichloroethene	2.343	96	116424	9.600	ppbv	99
23) Vinyl Acetate	2.466	43	41001	7.721	ppbv #	95
24) 1,1-Dichloroethane	2.411	63	225799	9.822	ppbv	99
25) Ethyl Acetate	2.839	43	640475	10.207	ppbv	100
26) Hexane	2.829	57	254276	10.535	ppbv	100
27) Carbon Disulfide	2.152	76	285988	10.036	ppbv	100
28) Methyl tert-Butyl Ether	2.441	73	138930	9.198	ppbv	99
29) Chloroform	2.852	83	400562	9.734	ppbv	98
30) Cyclohexane	3.861	84	206027	10.388	ppbv	98
31) cis-1,2-Dichloroethene	2.725	61	237742	9.582	ppbv	94
32) 1,1,1-Trichloroethane	3.373	97	380576	9.516	ppbv	99
34) 2-Butanone	2.560	43	339746	10.194	ppbv	100
35) Carbon Tetrachloride	3.768	117	410481	10.157	ppbv	99
36) Benzene	3.664	78	497724	10.606	ppbv	99
37) 1,2-Dichloroethane	3.224	62	293620	10.564	ppbv	99
38) Trichloroethene	4.554	130	207337	10.606	ppbv	98
39) 1,2-Dichloropropane	4.321	63	183162	10.529	ppbv	93
40) 1,4-Dioxane	4.586	88	79156	10.609	ppbv #	93
41) Tetrahydrofuran	3.055	42	192469	11.173	ppbv	99
42) Bromodichloromethane	4.496	83	414498	10.561	ppbv	99
43) Methyl Methacrylate	4.887	69	173411	11.131	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	858487	11.400	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	146489	10.275	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 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 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:12:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.612	75	214603	10.684	ppbv	97
47) 1,1,2-Trichloroethane	6.587	97	198270	10.247	ppbv	97
48) Dibromochloromethane	7.396	129	331247	10.490	ppbv	99
49) Bromoform	9.490	173	278004	10.541	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	476185	11.716	ppbv	98
51) 2-Hexanone	7.441	43	357942	12.373	ppbv #	97
52) Tetrachloroethene	8.234	164	171023	9.842	ppbv	99
53) Toluene	6.943	91	537460	11.344	ppbv	99
54) 1,2-Dibromoethane	7.661	107	241443	10.528	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.933	131	263217	10.662	ppbv	99
57) Chlorobenzene	8.930	112	448132	10.467	ppbv	99
58) Ethyl Benzene	9.360	91	746366	11.896	ppbv	99
59) m/p-Xylene	9.558	91	1260847m	23.826	ppbv	
60) o-Xylene	9.969	91	631124	11.972	ppbv	99
61) Styrene	9.878	104	265817	12.037	ppbv	100
62) Isopropylbenzene	10.545	105	937727	11.588	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	385656	10.198	ppbv	100
64) n-propylbenzene	10.995	120	243735	11.774	ppbv	98
65) tert-Butylbenzene	11.535	119	832617	11.561	ppbv	100
66) Benzyl Chloride	11.620	91	28811	10.467	ppbv	100
67) sec-Butylbenzene	11.772	105	1140714	11.350	ppbv	100
69) p-Isopropyltoluene	11.930	119	944301	11.550	ppbv	100
70) n-Butylbenzene	12.286	91	913129	11.600	ppbv	100
71) 2-Chlorotoluene	10.908	91	669943	11.439	ppbv	99
72) 4-Ethyltoluene	11.131	105	747654	11.916	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	622884	11.476	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	701955	11.459	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	408359	10.249	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	404912	10.658	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	393683	9.920	ppbv	99
78) Hexachloro-1,3-Butadiene	13.885	225	292935	10.593	ppbv	99
79) Naphthalene	13.516	128	541487	10.391	ppbv	99
80) Naphthalene,2-methyl-	14.461	142	203182	8.485	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	308127	13.050	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 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 10/09/2025
 Supervised By : Mahesh Dadoda 10/10/2025

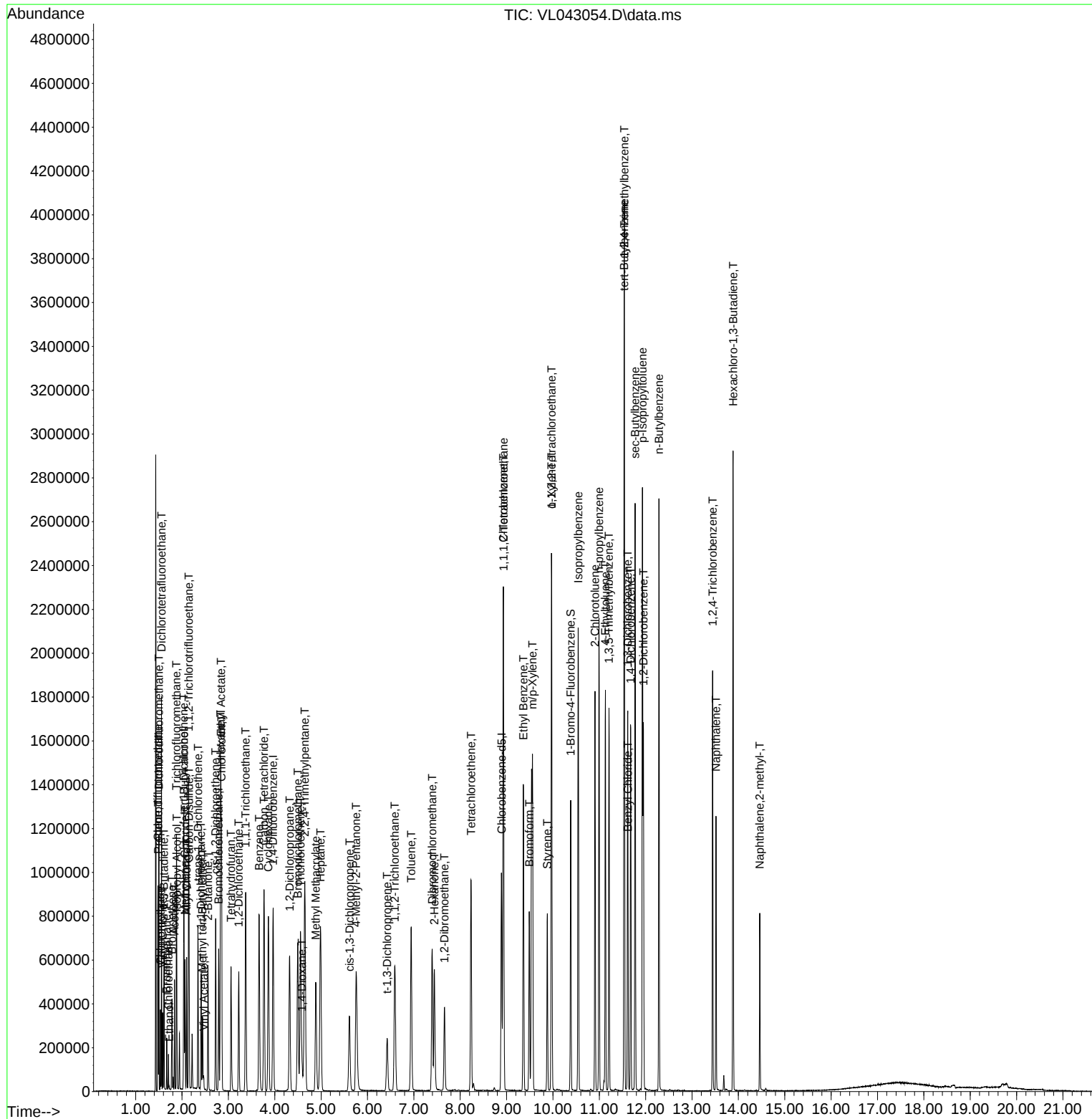
Quant Time: Oct 09 01:12:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

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

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 09 01:12:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 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	102	0.02
2 T	Dichlorodifluoromethane	1.685	1.680	0.3	108	0.00
3	Chlorodifluoromethane	1.630	1.600	1.8	107	0.00
4	Chloromethane	0.616	0.620	-0.6	109	0.00
5 T	Vinyl Chloride	0.584	0.574	1.7	108	0.00
6 T	Bromomethane	0.263	0.263	0.0	108	0.00
7	Chloroethane	0.244	0.242	0.8	111	0.00
8 T	Dichlorotetrafluoroethane	1.381	1.368	0.9	107	0.00
9 T	Propene	0.657	0.616	6.2	99	0.00
10 T	Heptane	1.616	1.775	-9.8	103	0.03
11 T	Trichlorofluoromethane	1.732	1.729	0.2	108	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.364	1.316	3.5	104	0.01
13	Ethanol	0.045	0.027#	40.0#	101	0.00
14 T	Bromoethene	0.489	0.475	2.9	103	0.00
15 T	Acetone	1.400	1.226	12.4	109	0.00
16 T	1,3-Butadiene	0.577	0.571	1.0	108	0.00
17	tert-Butyl alcohol	1.481	1.420	4.1	105	0.00
18 T	1,1-Dichloroethene	0.598	0.576	3.7	102	0.00
19 T	Isopropyl Alcohol	0.671	0.617	8.0	104	0.00
20 T	Methylene Chloride	0.611	0.512	16.2	106	0.01
21 T	Allyl Chloride	0.897	0.878	2.1	106	0.00
22 T	trans-1,2-Dichloroethene	0.679	0.652	4.0	104	0.01
23 T	Vinyl Acetate	0.297	0.230	22.6	96	0.02
24 T	1,1-Dichloroethane	1.287	1.264	1.8	107	0.01
25 T	Ethyl Acetate	3.513	3.585	-2.0	104	0.02
26 T	Hexane	1.351	1.423	-5.3	103	0.02
27 T	Carbon Disulfide	1.595	1.601	-0.4	107	0.00
28 T	Methyl tert-Butyl Ether	0.846	0.778	8.0	96	0.01
29 T	Chloroform	2.304	2.242	2.7	103	0.02
30 T	Cyclohexane	1.110	1.153	-3.9	98	0.02
31 T	cis-1,2-Dichloroethene	1.389	1.331	4.2	96	0.02
32 T	1,1,1-Trichloroethane	2.239	2.130	4.9	100	0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.02
34 T	2-Butanone	0.679	0.692	-1.9	99	0.02
35 T	Carbon Tetrachloride	0.823	0.836	-1.6	103	0.02
36 T	Benzene	0.955	1.013	-6.1	99	0.03
37 T	1,2-Dichloroethane	0.566	0.598	-5.7	102	0.02
38 T	Trichloroethene	0.398	0.422	-6.0	97	0.03
39 T	1,2-Dichloropropane	0.354	0.373	-5.4	100	0.03
40 T	1,4-Dioxane	0.152	0.161	-5.9	96	0.03
41 T	Tetrahydrofuran	0.351	0.392	-11.7	98	0.02
42 T	Bromodichloromethane	0.799	0.844	-5.6	100	0.03
43	Methyl Methacrylate	0.317	0.353	-11.4	94	0.04
44 T	2,2,4-Trimethylpentane	1.533	1.748	-14.0	103	0.03
45 T	t-1,3-Dichloropropene	0.290	0.298	-2.8	89	0.04
46 T	cis-1,3-Dichloropropene	0.409	0.437	-6.8	93	0.04
47 T	1,1,2-Trichloroethane	0.394	0.404	-2.5	101	0.04
48 T	Dibromochloromethane	0.643	0.674	-4.8	96	0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 09 01:12:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 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	0.537	0.566	-5.4	95	0.03
50 T	4-Methyl-2-Pentanone	0.827	0.969	-17.2	100	0.04
51 T	2-Hexanone	0.589	0.729	-23.8	99	0.03
52 T	Tetrachloroethene	0.354	0.348	1.7	95	0.03
53 T	Toluene	0.965	1.094	-13.4	94	0.04
54 T	1,2-Dibromoethane	0.467	0.492	-5.4	96	0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.03
56	1,1,1,2-Tetrachloroethane	0.610	0.650	-6.6	99	0.03
57 T	Chlorobenzene	1.057	1.107	-4.7	98	0.03
58 T	Ethyl Benzene	1.549	1.843	-19.0	95	0.02
59 T	m/p-Xylene	1.307	1.557	-19.1	97	0.03
60 T	o-Xylene	1.302	1.558	-19.7	98	0.02
61 T	Styrene	0.545	0.656	-20.4	89	0.03
62	Isopropylbenzene	1.998	2.315	-15.9	98	0.02
63 T	1,1,2,2-Tetrachloroethane	0.934	0.952	-1.9	99	0.02
64	n-propylbenzene	0.511	0.602	-17.8	97	0.02
65	tert-Butylbenzene	1.778	2.056	-15.6	96	0.02
66 T	Benzyl Chloride	0.068	0.071	-4.4	93	0.02
67	sec-Butylbenzene	2.482	2.817	-13.5	96	0.02
68 S	1-Bromo-4-Fluorobenzene	0.720	0.782	-8.6	96	0.02
69	p-Isopropyltoluene	2.019	2.332	-15.5	94	0.02
70	n-Butylbenzene	1.944	2.255	-16.0	92	0.02
71	2-Chlorotoluene	1.446	1.654	-14.4	94	0.02
72 T	4-Ethyltoluene	1.549	1.846	-19.2	95	0.02
73 T	1,3,5-Trimethylbenzene	1.340	1.538	-14.8	95	0.02
74 T	1,2,4-Trimethylbenzene	1.513	1.733	-14.5	96	0.02
75 T	1,3-Dichlorobenzene	0.984	1.008	-2.4	93	0.02
76 T	1,4-Dichlorobenzene	0.938	1.000	-6.6	93	0.02
77 T	1,2-Dichlorobenzene	0.980	0.972	0.8	94	0.02
78 T	Hexachloro-1,3-Butadiene	0.683	0.723	-5.9	101	0.02
79 T	Naphthalene	0.903	1.337	-48.1#	94	0.02
80 T	Naphthalene,2-methyl-	0.457	0.502	-9.8	80	0.02
81 T	1,2,4-Trichlorobenzene	0.583	0.761	-30.5#	99	0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 09 01:12:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 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	102	0.02
2 T	Dichlorodifluoromethane	10.000	9.965	0.4	108	0.00
3	Chlorodifluoromethane	10.000	9.816	1.8	107	0.00
4	Chloromethane	10.000	10.070	-0.7	109	0.00
5 T	Vinyl Chloride	10.000	9.817	1.8	108	0.00
6 T	Bromomethane	10.000	10.025	-0.3	108	0.00
7	Chloroethane	10.000	9.927	0.7	111	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.907	0.9	107	0.00
9 T	Propene	10.000	9.371	6.3	99	0.00
10 T	Heptane	10.000	10.984	-9.8	103	0.03
11 T	Trichlorofluoromethane	10.000	9.985	0.2	108	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.645	3.6	104	0.01
13	Ethanol	10.000	10.094	-0.9	101	0.00
14 T	Bromoethene	10.000	9.705	2.9	103	0.00
15 T	Acetone	10.000	8.754	12.5	109	0.00
16 T	1,3-Butadiene	10.000	9.892	1.1	108	0.00
17	tert-Butyl alcohol	10.000	9.587	4.1	105	0.00
18 T	1,1-Dichloroethene	10.000	9.634	3.7	102	0.00
19 T	Isopropyl Alcohol	10.000	9.194	8.1	104	0.00
20 T	Methylene Chloride	10.000	8.381	16.2	106	0.01
21 T	Allyl Chloride	10.000	9.789	2.1	106	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.600	4.0	104	0.01
23 T	Vinyl Acetate	10.000	7.721	22.8	96	0.02
24 T	1,1-Dichloroethane	10.000	9.822	1.8	107	0.01
25 T	Ethyl Acetate	10.000	10.207	-2.1	104	0.02
26 T	Hexane	10.000	10.535	-5.4	103	0.02
27 T	Carbon Disulfide	10.000	10.036	-0.4	107	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.198	8.0	96	0.01
29 T	Chloroform	10.000	9.734	2.7	103	0.02
30 T	Cyclohexane	10.000	10.388	-3.9	98	0.02
31 T	cis-1,2-Dichloroethene	10.000	9.582	4.2	96	0.02
32 T	1,1,1-Trichloroethane	10.000	9.516	4.8	100	0.02
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.02
34 T	2-Butanone	10.000	10.194	-1.9	99	0.02
35 T	Carbon Tetrachloride	10.000	10.157	-1.6	103	0.02
36 T	Benzene	10.000	10.606	-6.1	99	0.03
37 T	1,2-Dichloroethane	10.000	10.564	-5.6	102	0.02
38 T	Trichloroethene	10.000	10.606	-6.1	97	0.03
39 T	1,2-Dichloropropane	10.000	10.529	-5.3	100	0.03
40 T	1,4-Dioxane	10.000	10.609	-6.1	96	0.03
41 T	Tetrahydrofuran	10.000	11.173	-11.7	98	0.02
42 T	Bromodichloromethane	10.000	10.561	-5.6	100	0.03
43	Methyl Methacrylate	10.000	11.131	-11.3	94	0.04
44 T	2,2,4-Trimethylpentane	10.000	11.400	-14.0	103	0.03
45 T	t-1,3-Dichloropropene	10.000	10.275	-2.8	89	0.04
46 T	cis-1,3-Dichloropropene	10.000	10.684	-6.8	93	0.04
47 T	1,1,2-Trichloroethane	10.000	10.247	-2.5	101	0.04
48 T	Dibromochloromethane	10.000	10.490	-4.9	96	0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043054.D
 Acq On : 08 Oct 2025 08:54
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Oct 09 01:12:11 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 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	10.541	-5.4	95	0.03
50 T	4-Methyl-2-Pentanone	10.000	11.716	-17.2	100	0.04
51 T	2-Hexanone	10.000	12.373	-23.7	99	0.03
52 T	Tetrachloroethene	10.000	9.842	1.6	95	0.03
53 T	Toluene	10.000	11.344	-13.4	94	0.04
54 T	1,2-Dibromoethane	10.000	10.528	-5.3	96	0.03
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.03
56	1,1,1,2-Tetrachloroethane	10.000	10.662	-6.6	99	0.03
57 T	Chlorobenzene	10.000	10.467	-4.7	98	0.03
58 T	Ethyl Benzene	10.000	11.896	-19.0	95	0.02
59 T	m/p-Xylene	20.000	23.826	-19.1	97	0.03
60 T	o-Xylene	10.000	11.972	-19.7	98	0.02
61 T	Styrene	10.000	12.037	-20.4	89	0.03
62	Isopropylbenzene	10.000	11.588	-15.9	98	0.02
63 T	1,1,2,2-Tetrachloroethane	10.000	10.198	-2.0	99	0.02
64	n-propylbenzene	10.000	11.774	-17.7	97	0.02
65	tert-Butylbenzene	10.000	11.561	-15.6	96	0.02
66 T	Benzyl Chloride	10.000	10.467	-4.7	93	0.02
67	sec-Butylbenzene	10.000	11.350	-13.5	96	0.02
68 S	1-Bromo-4-Fluorobenzene	10.000	10.860	-8.6	96	0.02
69	p-Isopropyltoluene	10.000	11.550	-15.5	94	0.02
70	n-Butylbenzene	10.000	11.600	-16.0	92	0.02
71	2-Chlorotoluene	10.000	11.439	-14.4	94	0.02
72 T	4-Ethyltoluene	10.000	11.916	-19.2	95	0.02
73 T	1,3,5-Trimethylbenzene	10.000	11.476	-14.8	95	0.02
74 T	1,2,4-Trimethylbenzene	10.000	11.459	-14.6	96	0.02
75 T	1,3-Dichlorobenzene	10.000	10.249	-2.5	93	0.02
76 T	1,4-Dichlorobenzene	10.000	10.658	-6.6	93	0.02
77 T	1,2-Dichlorobenzene	10.000	9.920	0.8	94	0.02
78 T	Hexachloro-1,3-Butadiene	10.000	10.593	-5.9	101	0.02
79 T	Naphthalene	10.000	10.391	-3.9	94	0.02
80 T	Naphthalene,2-methyl-	10.000	8.485	15.2	80	0.02
81 T	1,2,4-Trichlorobenzene	10.000	13.050	-30.5#	99	0.02

(#) = Out of Range

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



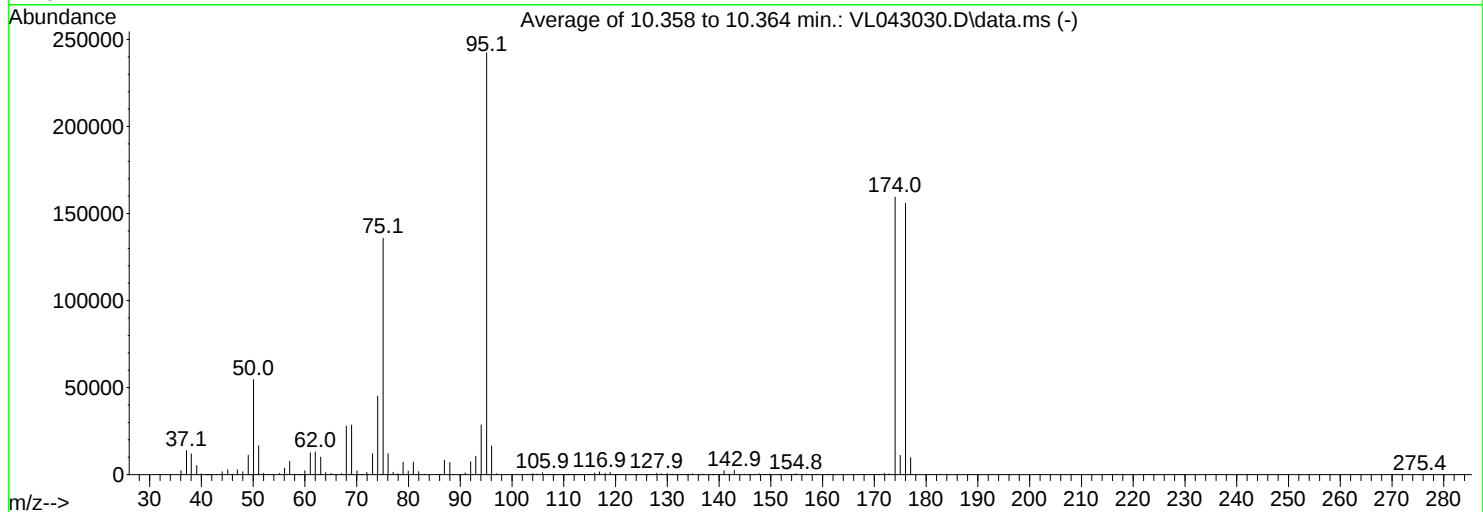
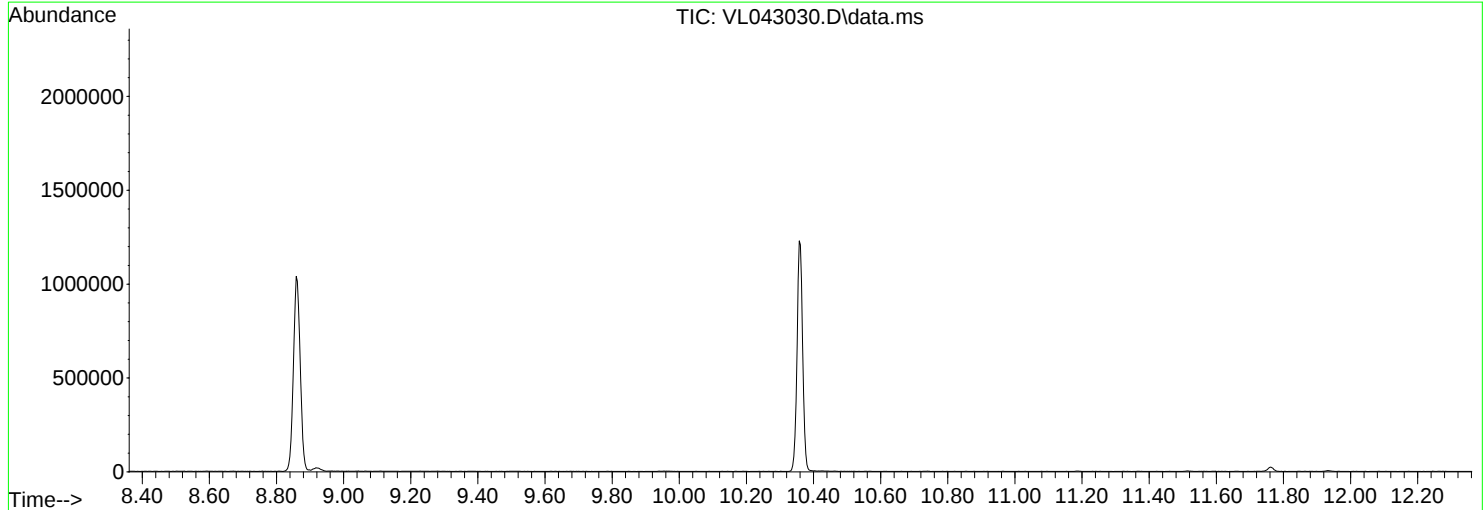
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100225\
Data File : VL043030.D
Acq On : 02 Oct 2025 09:11
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\VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025



AutoFind: Scans 3173, 3174, 3175; Background Corrected with Scan 3150

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.6	54675	PASS
75	95	30	66	56.0	135808	PASS
95	95	100	100	100.0	242325	PASS
96	95	5	9	6.8	16496	PASS
173	174	0.00	2	0.3	425	PASS
174	95	50	120	65.8	159467	PASS
175	174	4	9	6.9	10992	PASS
176	174	93	101	97.8	156032	PASS
177	176	5	9	6.3	9819	PASS

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	2330	46.00	250	57.05	7765	68.00	2792
37.10	13813	46.95	2788	58.05	341	69.00	2847
38.05	11973	48.00	1655	58.90	23	70.05	217
39.10	5249	49.05	11158	60.00	2342	70.90	4
39.95	499	50.05	54675	61.05	12524	71.95	1265
40.85	55	51.05	16585	62.00	13090	73.05	12010
41.20	34	52.00	716	63.05	10089	74.05	45096
41.70	41	52.90	129	64.00	1213	75.10	135808
42.95	81	54.05	98	65.05	689	76.05	12035
44.00	1684	55.10	722	66.00	121	77.05	1348
45.10	2730	56.05	3773	67.05	550	77.80	302

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.95	470	90.95	1003	105.90	1116	115.05	175
78.95	7200	92.00	7351	106.90	274	115.95	1031
79.95	2063	93.00	10598	108.20	33	116.90	1577
80.95	7288	94.05	28587	109.80	55	118.00	866
81.95	1746	95.10	242325	110.10	57	118.95	1306
83.15	295	96.05	16496	110.60	86	119.90	24
85.80	79	97.00	519	110.90	247	123.15	68
86.10	77	103.00	84	111.80	125	123.80	49
86.95	8373	103.80	409	112.10	47	124.10	45
88.00	7029	104.05	570	112.85	231	125.00	87
88.70	108	104.80	377	114.80	216	125.90	51

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.10	36	136.85	338	146.10	106	156.85	394
126.90	57	138.80	48	146.90	145	157.80	61
127.90	861	139.90	127	147.80	477	158.70	92
128.85	474	140.10	57	148.00	163	158.90	179
129.95	745	140.95	2272	148.90	139	160.60	61
130.95	284	141.85	274	149.75	245	160.95	263
131.70	18	142.95	2445	151.85	217	170.55	65
133.70	47	144.00	140	152.90	112	170.95	95
133.90	37	144.90	270	153.85	189	171.90	906
134.85	499	145.75	191	154.85	593	172.80	425
136.10	34	145.90	163	156.10	138	174.00	159467

Average of 10.358 to 10.364 min.: VL043030.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	10992						
176.00	156032						
177.00	9819						
178.00	298						
275.40	22						

Instrument :

MSVOA_L

ClientSampleId :

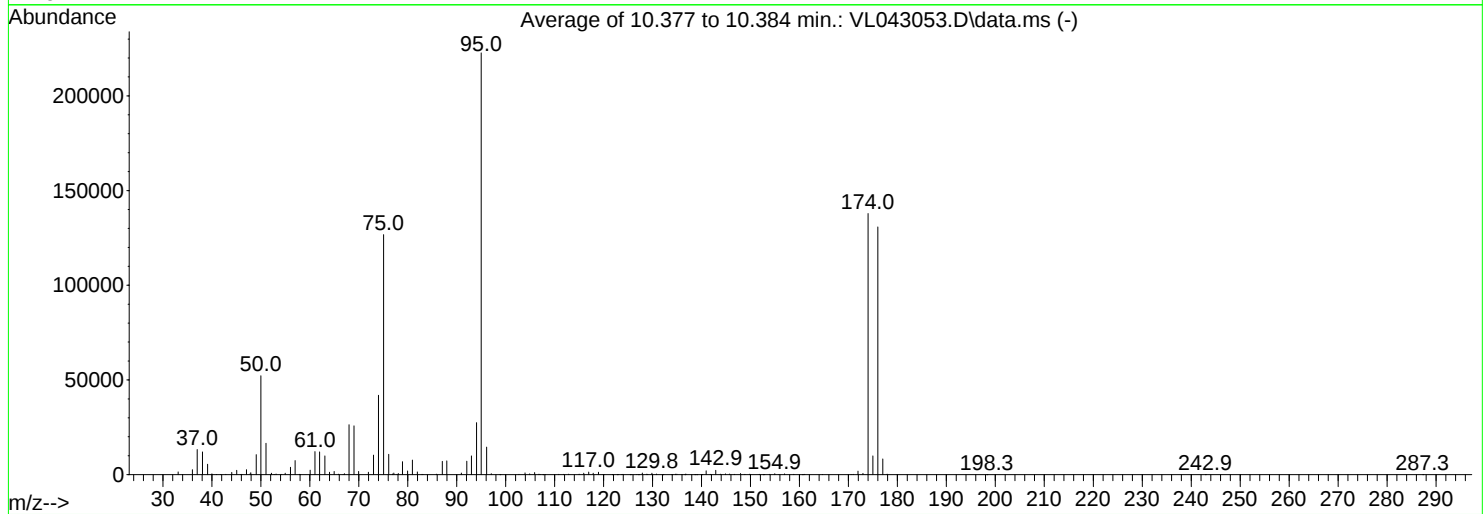
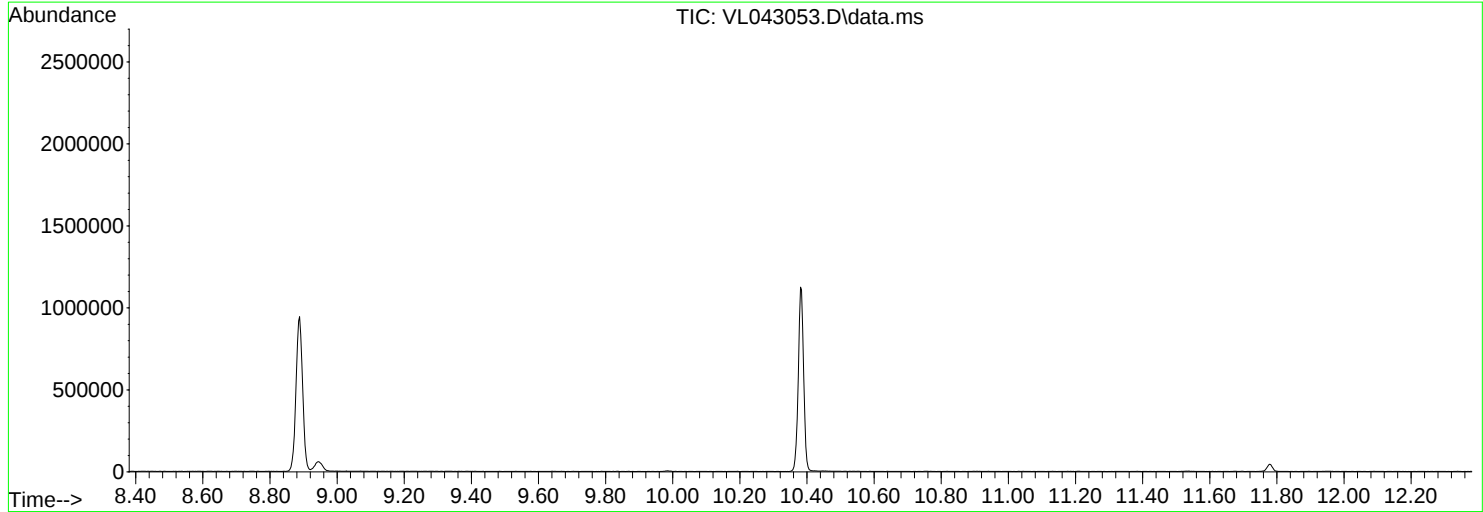
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043053.D
Acq On : 08 Oct 2025 08:00
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\VL100225AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Fri Oct 03 08:23:34 2025



AutoFind: Scans 3179, 3180, 3181; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.5	52232	PASS
75	95	30	66	56.9	126765	PASS
95	95	100	100	100.0	222720	PASS
96	95	5	9	6.5	14516	PASS
173	174	0.00	2	0.5	727	PASS
174	95	50	120	61.9	137885	PASS
175	174	4	9	7.2	9912	PASS
176	174	93	101	94.8	130755	PASS
177	176	5	9	6.3	8273	PASS

Average of 10.377 to 10.384 min.: VL043053.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1449	45.05	2301	53.10	357	64.00	1231
34.00	51	45.90	80	54.10	140	64.95	1663
36.00	2590	46.10	180	54.95	759	65.85	231
37.00	13307	47.05	2613	56.05	3851	66.80	101
38.05	12032	47.80	436	57.00	7464	67.05	510
39.10	5459	47.95	997	57.90	146	68.00	26405
40.00	430	49.05	10569	58.10	56	69.00	25795
40.95	81	50.00	52232	60.05	2388	69.95	1723
41.80	71	51.05	16602	61.05	12159	71.95	1245
42.85	177	52.15	766	62.00	11965	73.00	10332
44.05	1185	52.70	91	63.05	9906	74.00	41931

Average of 10.377 to 10.384 min.: VL043053.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.05	126765	83.10	68	98.80	36	111.85	213
76.10	10728	85.85	274	102.70	139	112.85	292
76.90	339	87.05	7042	103.95	956	115.00	241
77.15	885	87.95	7242	104.90	399	115.95	756
77.80	199	90.95	821	105.90	1086	116.95	1387
78.05	566	92.05	7105	106.80	264	117.85	806
78.90	6811	93.00	9919	107.00	49	118.95	1306
79.95	1964	94.05	27456	107.60	21	119.90	17
80.95	7672	95.00	222720	108.10	53	121.80	18
81.95	1414	96.10	14516	110.00	87	122.80	36
82.90	150	97.05	480	110.85	142	123.70	52

Average of 10.377 to 10.384 min.: VL043053.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.95	167	134.70	229	143.85	221	154.95	472
125.45	43	134.95	252	144.90	469	155.80	72
126.80	50	136.00	50	145.75	320	156.95	428
127.10	40	136.60	46	146.70	166	158.85	181
127.90	818	136.80	355	147.95	582	160.60	39
128.80	267	138.60	22	148.85	156	161.05	155
129.00	190	139.00	21	149.85	276	164.70	53
129.85	766	140.00	46	151.80	147	170.55	71
130.80	308	140.95	2009	152.60	22	170.95	212
132.10	24	141.80	198	152.90	87	171.95	1901
133.90	41	142.90	2301	153.85	175	172.95	727

Average of 10.377 to 10.384 min.: VL043053.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
174.00	137885						
175.00	9912						
176.00	130755						
177.00	8273						
177.90	254						
198.30	26						
242.90	24						
287.30	26						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	74-16 Cypress Hill St, Glendale NY	Date Received:	
Client Sample ID:	VL1008ABL01	SDG No.:	Q3306
Lab Sample ID:	VL1008ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043055.D	1		10/08/25 09:39	VL100825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080
142-82-5	Heptane	0.17	0.70	U	0.70	2.05
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34
71-43-2	Benzene	0.080	0.26	U	0.26	1.60
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16
108-88-3	Toluene	0.16	0.60	U	0.60	1.88
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52
110-54-3	Hexane	0.16	0.56	U	0.56	1.76
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	181000		2.794		
540-36-3	1,4-Difluorobenzene	492000		3.965		
3114-55-4	Chlorobenzene-d5	391000		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\VL100825\
 Data File : VL043055.D
 Acq On : 08 Oct 2025 09:39
 Operator : SY/MD
 Sample : VL1008ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1008ABL01

Quant Time: Oct 09 01:13:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Oct 03 08:23:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	180991	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.965	114	491665	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.891	117	390940	10.000	ppbv	0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	266462	9.462	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.600%

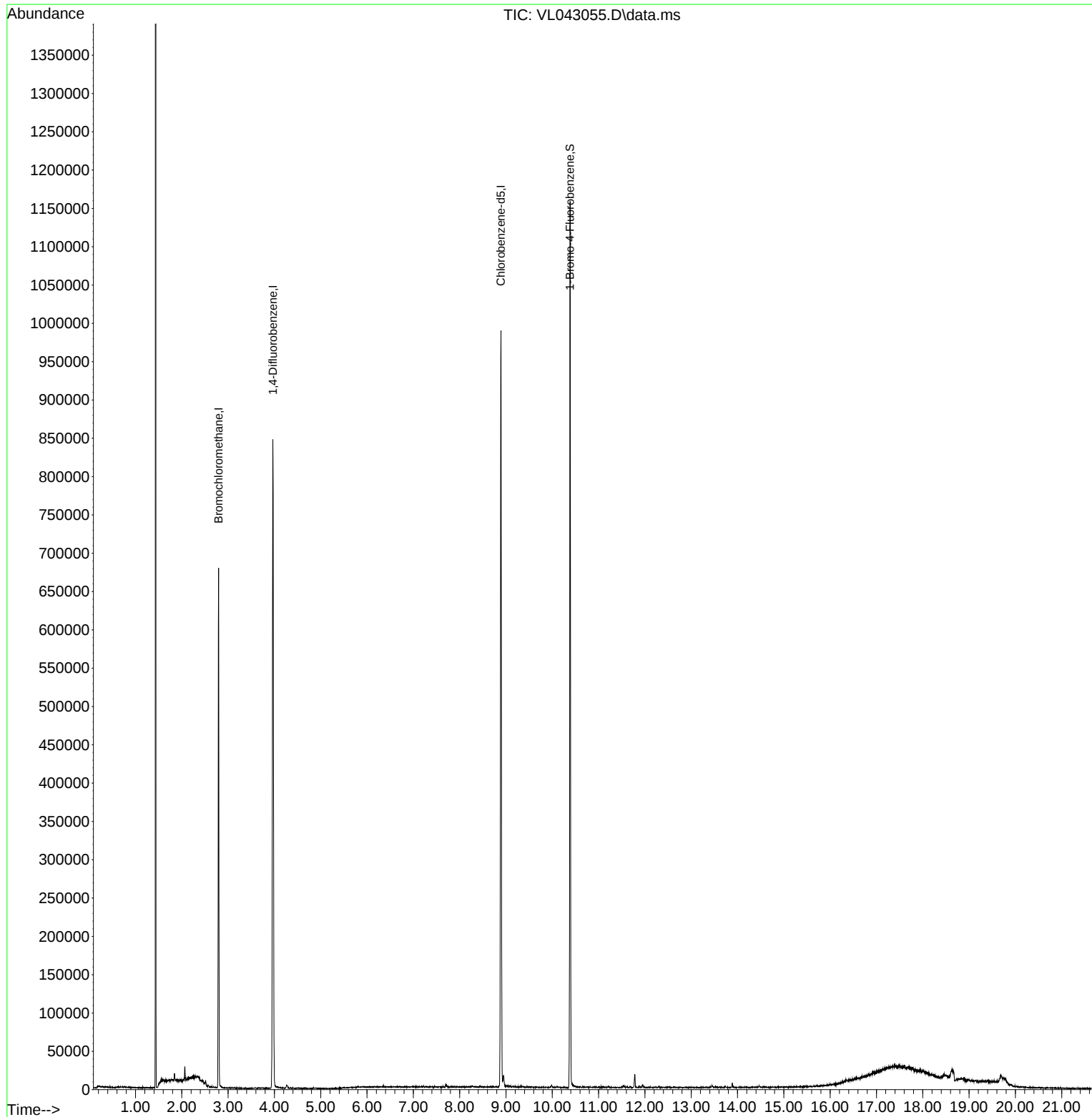
Target Compounds	Qvalue

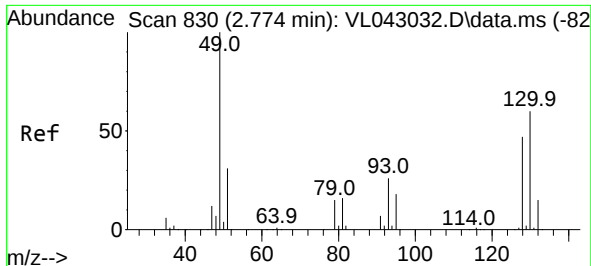
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
Data File : VL043055.D
Acq On : 08 Oct 2025 09:39
Operator : SY/MD
Sample : VL1008ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1008ABL01

Quant Time: Oct 09 01:13:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration

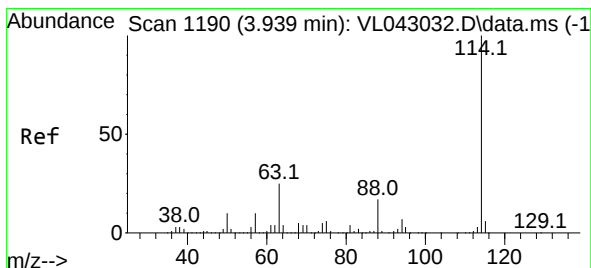
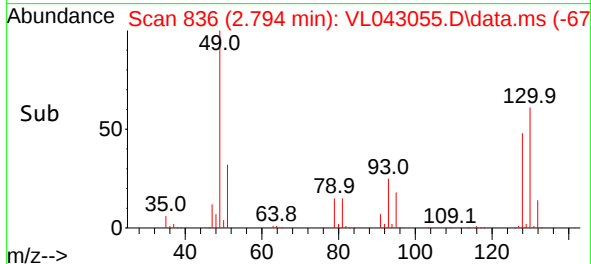
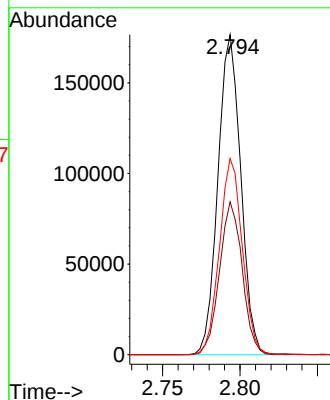
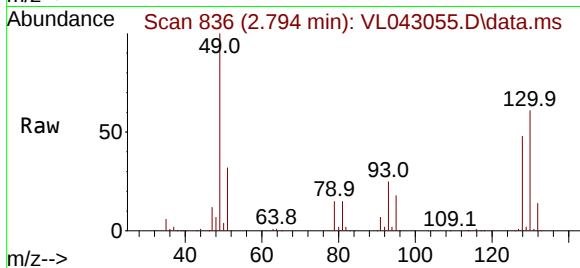




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. 0.020 min
Lab File: VL043055.D
Acq: 08 Oct 2025 09:39

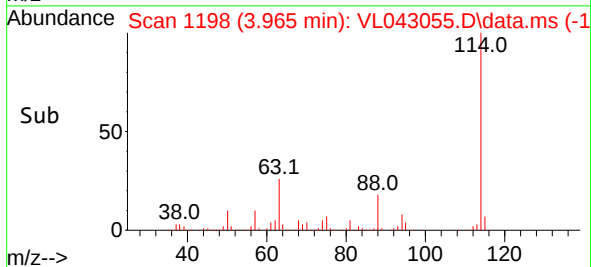
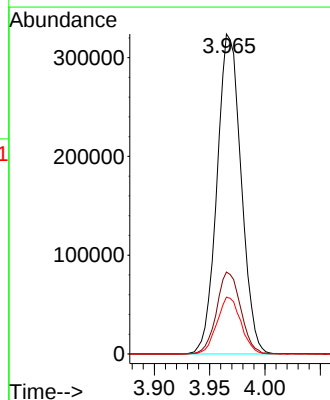
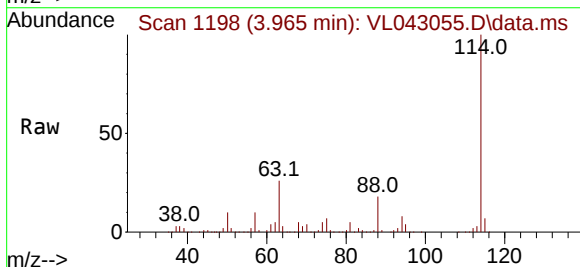
Instrument :
MSVOA_1
ClientSampleId :
VL1008ABL01

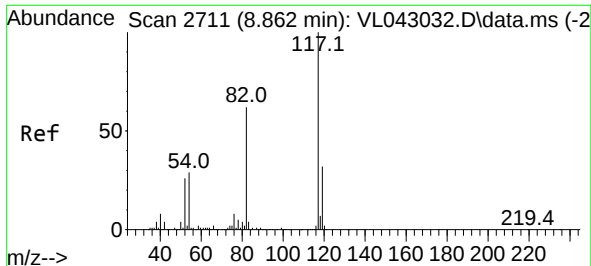
Tgt Ion: 49 Resp: 180991
Ion Ratio Lower Upper
49 100
128 47.5 24.1 72.2
130 61.6 31.4 94.3



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.026 min
Lab File: VL043055.D
Acq: 08 Oct 2025 09:39

Tgt Ion:114 Resp: 491665
Ion Ratio Lower Upper
114 100
63 25.6 19.4 29.2
88 17.5 13.9 20.9

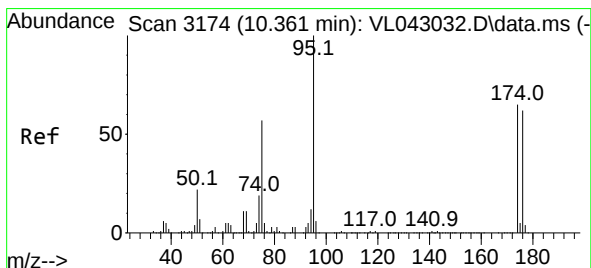
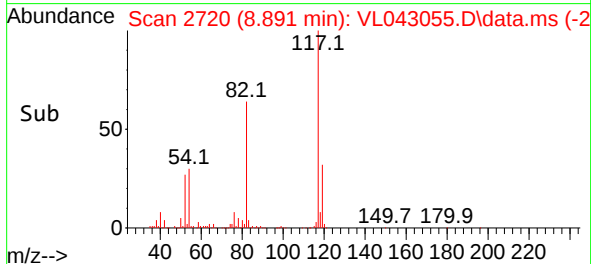
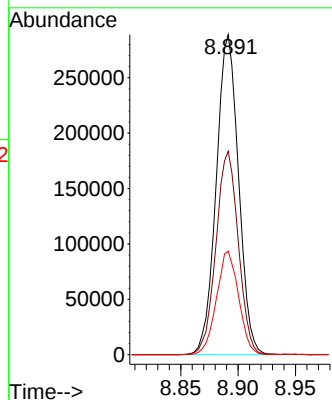
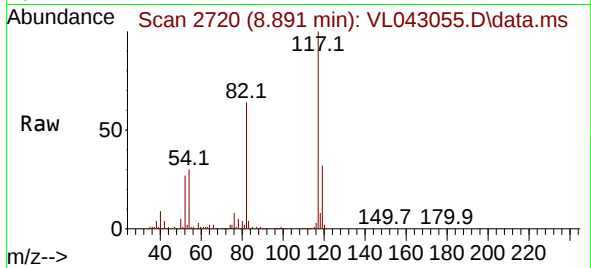




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL043055.D
Acq: 08 Oct 2025 09:39

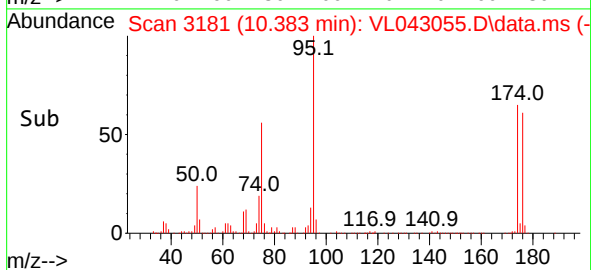
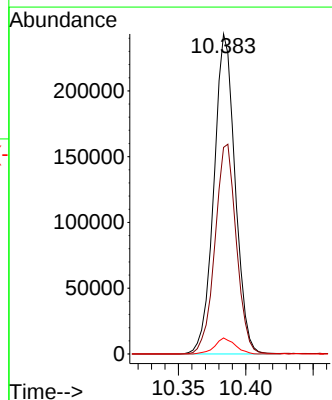
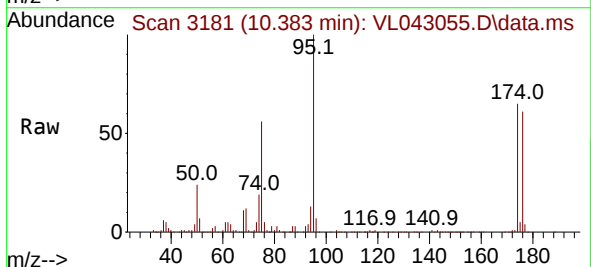
Instrument :
MSVOA_L
ClientSampleId :
VL1008ABL01

Tgt Ion:117 Resp: 390940
Ion Ratio Lower Upper
117 100
82 63.8 53.0 79.6
119 32.3 25.4 38.2



#68
1-Bromo-4-Fluorobenzene
Concen: 9.462 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. 0.023 min
Lab File: VL043055.D
Acq: 08 Oct 2025 09:39

Tgt Ion: 95 Resp: 266462
Ion Ratio Lower Upper
95 100
174 66.4 52.3 78.5
175 4.8 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	74-16 Cypress Hill St, Glendale NY	Date Received:	
Client Sample ID:	VL1008ABS01	SDG No.:	Q3306
Lab Sample ID:	VL1008ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL043056.D	1		10/08/25 10:23	VL100825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL ug/m3	LOQ / CRQL ug/m3
TARGETS						
75-01-4	Vinyl Chloride	9.50	24.3		0.080	0.080
142-82-5	Heptane	11.0	45.1		0.70	2.05
75-34-3	1,1-Dichloroethane	9.60	38.9		0.53	2.02
110-82-7	Cyclohexane	10.5	36.1		0.76	1.72
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.40	1.98
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.11	0.16
540-84-1	2,2,4-Trimethylpentane	11.3	52.8		0.65	2.34
71-43-2	Benzene	10.4	33.2		0.26	1.60
79-01-6	Trichloroethene	10.6	57.0		0.11	0.16
108-88-3	Toluene	11.3	42.6		0.60	1.88
127-18-4	Tetrachloroethene	9.70	65.8		0.14	0.20
100-41-4	Ethyl Benzene	11.6	50.4		0.83	2.17
179601-23-1	m/p-Xylene	23.0	99.9		1.78	4.34
95-47-6	o-Xylene	11.5	50.0		0.91	2.17
108-67-8	1,3,5-Trimethylbenzene	11.1	54.6		0.88	2.46
95-63-6	1,2,4-Trimethylbenzene	11.0	54.1		0.88	2.46
91-20-3	Naphthalene	10.0	52.4		0.050	0.52
110-54-3	Hexane	10.5	37.0		0.56	1.76
SURROGATES						
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103% SPK: 10
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	181000		2.79		
540-36-3	1,4-Difluorobenzene	507000		3.965		
3114-55-4	Chlorobenzene-d5	420000		8.888		

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\VL100825\
 Data File : VL043056.D
 Acq On : 08 Oct 2025 10:23
 Operator : SY/MD
 Sample : VL1008ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1008ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:13:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	180769	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	3.965	114	507280	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.888	117	420006	10.000	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 311409 10.292 ppbv 0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	298862	9.809	ppbv	99
3) Chlorodifluoromethane	1.479	51	287792	9.765	ppbv	99
4) Chloromethane	1.534	50	109383	9.829	ppbv	99
5) Vinyl Chloride	1.583	62	100664	9.531	ppbv	98
6) Bromomethane	1.670	94	47728	10.057	ppbv	94
7) Chloroethane	1.706	64	41972	9.524	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	241906	9.690	ppbv	100
9) Propene	1.486	41	112680	9.482	ppbv	97
10) Heptane	4.988	43	320232	10.961	ppbv	99
11) Trichlorofluoromethane	1.881	101	303354	9.689	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	236959	9.609	ppbv	98
13) Ethanol	1.725	45	5047	10.450	ppbv	96
14) Bromoethene	1.784	108	85960	9.723	ppbv	100
15) Acetone	1.839	43	214418	8.471	ppbv	99
16) 1,3-Butadiene	1.612	39	99577	9.542	ppbv	99
17) tert-Butyl alcohol	2.043	59	257752	9.627	ppbv	99
18) 1,1-Dichloroethene	2.036	96	103392	9.565	ppbv	99
19) Isopropyl Alcohol	1.887	45	112050	9.240	ppbv	98
20) Methylene Chloride	2.065	84	91977	8.325	ppbv	97
21) Allyl Chloride	2.101	41	157994	9.743	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	116408	9.485	ppbv	96
23) Vinyl Acetate	2.463	43	42601	7.928	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	224330	9.643	ppbv	98
25) Ethyl Acetate	2.839	43	649598	10.231	ppbv	100
26) Hexane	2.832	57	257052	10.524	ppbv	99
27) Carbon Disulfide	2.153	76	282182	9.786	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	141448	9.254	ppbv	100
29) Chloroform	2.852	83	402846	9.674	ppbv	99
30) Cyclohexane	3.865	84	209844	10.455	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	240044	9.560	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	388607	9.602	ppbv	99
34) 2-Butanone	2.560	43	346409	10.064	ppbv	99
35) Carbon Tetrachloride	3.768	117	414085	9.922	ppbv	97
36) Benzene	3.664	78	505655	10.433	ppbv	99
37) 1,2-Dichloroethane	3.224	62	295335	10.289	ppbv	99
38) Trichloroethene	4.558	130	214599	10.629	ppbv	100
39) 1,2-Dichloropropane	4.321	63	184414	10.265	ppbv	96
40) 1,4-Dioxane	4.587	88	80666	10.469	ppbv #	98
41) Tetrahydrofuran	3.056	42	196371	11.038	ppbv	99
42) Bromodichloromethane	4.496	83	421840	10.407	ppbv	98
43) Methyl Methacrylate	4.888	69	177306	11.020	ppbv	98
44) 2,2,4-Trimethylpentane	4.648	57	876882	11.275	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	149657	10.165	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100825\
 Data File : VL043056.D
 Acq On : 08 Oct 2025 10:23
 Operator : SY/MD
 Sample : VL1008ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1008ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 10/09/2025
 Supervised By :Mahesh Dadoda 10/10/2025

Quant Time: Oct 09 01:13:58 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2025

QLast Update : Fri Oct 03 08:23:34 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	219390	10.576	ppbv	98
47) 1,1,2-Trichloroethane	6.593	97	202692	10.143	ppbv	93
48) Dibromochloromethane	7.396	129	335227	10.279	ppbv	100
49) Bromoform	9.490	173	277184	10.177	ppbv	100
50) 4-Methyl-2-Pentanone	5.755	43	479434	11.422	ppbv	99
51) 2-Hexanone	7.441	43	357341	11.961	ppbv #	97
52) Tetrachloroethene	8.234	164	174823	9.742	ppbv	98
53) Toluene	6.943	91	550580	11.253	ppbv	100
54) 1,2-Dibromoethane	7.661	107	244672	10.331	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.933	131	268030	10.469	ppbv	99
57) Chlorobenzene	8.930	112	454755	10.242	ppbv	98
58) Ethyl Benzene	9.361	91	751984	11.557	ppbv	100
59) m/p-Xylene	9.558	91	1263318m	23.019	ppbv	
60) o-Xylene	9.972	91	629102	11.507	ppbv	98
61) Styrene	9.879	104	264798	11.562	ppbv	99
62) Isopropylbenzene	10.545	105	934426	11.134	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	378183	9.643	ppbv	100
64) n-propylbenzene	10.995	120	244470	11.388	ppbv	99
65) tert-Butylbenzene	11.536	119	831489	11.133	ppbv	99
66) Benzyl Chloride	11.620	91	27741	9.718	ppbv	99
67) sec-Butylbenzene	11.772	105	1135694	10.896	ppbv	100
69) p-Isopropyltoluene	11.931	119	948994	11.193	ppbv	99
70) n-Butylbenzene	12.287	91	917717	11.241	ppbv	100
71) 2-Chlorotoluene	10.908	91	667532	10.990	ppbv	100
72) 4-Ethyltoluene	11.131	105	744358	11.439	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	624701	11.098	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	697335	10.976	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	408885	9.895	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	405222	10.285	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	395362	9.606	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	294735	10.277	ppbv	99
79) Naphthalene	13.517	128	540252	10.024	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	208159	8.390	ppbv	99
81) 1,2,4-Trichlorobenzene	13.445	180	311481	12.721	ppbv	98

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

Manual Integrations APPROVED

Quant Time: Oct 09 01:13:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL100225AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Fri Oct 03 08:23:34 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VL100225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL043031.D	1,4-Dioxane	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	2-Hexanone	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	cis-1,3-Dichloropropene	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	Heptane	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	m/p-Xylene	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	t-1,3-Dichloropropene	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	Toluene	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICC0.5	VL043031.D	Trichloroethene	sam	10/3/2025 10:27:49 AM	MMdadoda	10/10/2025 2:48:22 AM	Peak Integrated by Software
VSTDICCC010	VL043032.D	m/p-Xylene	sam	10/3/2025 10:27:54 AM	MMdadoda	10/10/2025 2:48:28 AM	Peak Integrated by Software
VSTDICC002	VL043033.D	1,4-Dioxane	sam	10/3/2025 10:27:58 AM	MMdadoda	10/10/2025 2:48:33 AM	Peak Integrated by Software
VSTDICC002	VL043033.D	m/p-Xylene	sam	10/3/2025 10:27:58 AM	MMdadoda	10/10/2025 2:48:33 AM	Peak Integrated by Software
VSTDICC001	VL043034.D	1,4-Dioxane	sam	10/3/2025 10:28:33 AM	MMdadoda	10/10/2025 2:48:45 AM	Peak Integrated by Software
VSTDICC001	VL043034.D	cis-1,3-Dichloropropene	sam	10/3/2025 10:28:33 AM	MMdadoda	10/10/2025 2:48:45 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL100225	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC001	VL043034.D	m/p-Xylene	sam	10/3/2025 10:28:33 AM	MMdadoda	10/10/2025 2:48:45 AM	Peak Integrated by Software
VSTDIC0.1	VL043036.D	1,2-Dibromoethane	sam	10/3/2025 10:28:47 AM	MMdadoda	10/10/2025 2:48:55 AM	Peak Integrated by Software
VSTDIC0.1	VL043036.D	Trichloroethene	sam	10/3/2025 10:28:47 AM	MMdadoda	10/10/2025 2:48:55 AM	Peak Integrated by Software
VSTDIC0.03	VL043037.D	1,1,1-Trichloroethane	sam	10/3/2025 10:28:52 AM	MMdadoda	10/10/2025 2:49:00 AM	Peak Integrated by Software
VSTDIC0.03	VL043037.D	Carbon Tetrachloride	sam	10/3/2025 10:28:52 AM	MMdadoda	10/10/2025 2:49:00 AM	Peak Integrated by Software
VSTDIC0.03	VL043037.D	Tetrachloroethene	sam	10/3/2025 10:28:52 AM	MMdadoda	10/10/2025 2:49:00 AM	Peak Integrated by Software
VSTDIC0.03	VL043037.D	Trichloroethene	sam	10/3/2025 10:28:52 AM	MMdadoda	10/10/2025 2:49:00 AM	Peak Integrated by Software
VSTDIC015	VL043038.D	m/p-Xylene	sam	10/3/2025 10:28:09 AM	MMdadoda	10/10/2025 2:49:04 AM	Peak Integrated by Software
VSTDICV010	VL043039.D	m/p-Xylene	sam	10/3/2025 10:28:16 AM	MMdadoda	10/10/2025 2:49:12 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl100825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL043054.D	m/p-Xylene	sam	10/9/2025 1:34:00 PM	MMdadoda	10/10/2025 4:41:44 AM	Peak Integrated by Software
VL1008ABS01	VL043056.D	m/p-Xylene	sam	10/9/2025 1:34:05 PM	MMdadoda	10/10/2025 4:41:48 AM	Peak Integrated by Software
Q3306-01	VL043061.D	1,2,4-Trimethylbenzene	sam	10/9/2025 1:34:09 PM	MMdadoda	10/10/2025 4:41:53 AM	Peak Integrated by Software
Q3306-01	VL043061.D	Carbon Tetrachloride	sam	10/9/2025 1:34:09 PM	MMdadoda	10/10/2025 4:41:53 AM	Peak Integrated by Software
Q3306-01	VL043061.D	Chlorodifluoromethane	sam	10/9/2025 1:34:09 PM	MMdadoda	10/10/2025 4:41:53 AM	Peak Integrated by Software
Q3306-01	VL043061.D	m/p-Xylene	sam	10/9/2025 1:34:09 PM	MMdadoda	10/10/2025 4:41:53 AM	Peak Integrated by Software
Q3306-01	VL043061.D	Toluene	sam	10/9/2025 1:34:09 PM	MMdadoda	10/10/2025 4:41:53 AM	Peak Integrated by Software
Q3306-01DUP	VL043062.D	1,2,4-Trimethylbenzene	sam	10/9/2025 1:34:15 PM	MMdadoda	10/10/2025 4:41:57 AM	Peak Integrated by Software
Q3306-01DUP	VL043062.D	2,2,4-Trimethylpentane	sam	10/9/2025 1:34:15 PM	MMdadoda	10/10/2025 4:41:57 AM	Peak Integrated by Software
Q3306-01DUP	VL043062.D	Carbon Tetrachloride	sam	10/9/2025 1:34:15 PM	MMdadoda	10/10/2025 4:41:57 AM	Peak Integrated by Software
Q3306-01DUP	VL043062.D	Chlorodifluoromethane	sam	10/9/2025 1:34:15 PM	MMdadoda	10/10/2025 4:41:57 AM	Peak Integrated by Software
Q3306-01DUP	VL043062.D	m/p-Xylene	sam	10/9/2025 1:34:15 PM	MMdadoda	10/10/2025 4:41:57 AM	Peak Integrated by Software
Q3306-01DUP	VL043062.D	Toluene	sam	10/9/2025 1:34:15 PM	MMdadoda	10/10/2025 4:41:57 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl100825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3306-02	VL043063.D	2,2,4-Trimethylpentane	sam	10/9/2025 1:34:23 PM	MMdadoda	10/10/2025 4:42:02 AM	Peak Integrated by Software
Q3306-02	VL043063.D	Chlorodifluoromethane	sam	10/9/2025 1:34:23 PM	MMdadoda	10/10/2025 4:42:02 AM	Peak Integrated by Software
Q3306-02	VL043063.D	m/p-Xylene	sam	10/9/2025 1:34:23 PM	MMdadoda	10/10/2025 4:42:02 AM	Peak Integrated by Software
Q3306-02	VL043063.D	Toluene	sam	10/9/2025 1:34:23 PM	MMdadoda	10/10/2025 4:42:02 AM	Peak Integrated by Software
Q3306-02	VL043063.D	Trichlorofluoromethane	sam	10/9/2025 1:34:23 PM	MMdadoda	10/10/2025 4:42:02 AM	Peak Integrated by Software
Q3306-04	VL043066.D	Heptane	sam	10/9/2025 1:34:29 PM	MMdadoda	10/10/2025 4:42:16 AM	Peak Integrated by Software
Q3306-04	VL043066.D	Propene	sam	10/9/2025 1:34:29 PM	MMdadoda	10/10/2025 4:42:16 AM	Peak Integrated by Software
Q3306-04	VL043066.D	Tetrachloroethene	sam	10/9/2025 1:34:29 PM	MMdadoda	10/10/2025 4:42:16 AM	Peak Integrated by Software
Q3306-03	VL043067.D	Ethanol	sam	10/9/2025 1:34:35 PM	MMdadoda	10/10/2025 4:42:20 AM	Peak Integrated by Software
Q3306-03	VL043067.D	Heptane	sam	10/9/2025 1:34:35 PM	MMdadoda	10/10/2025 4:42:20 AM	Peak Integrated by Software
Q3306-03	VL043067.D	Methylene Chloride	sam	10/9/2025 1:34:35 PM	MMdadoda	10/10/2025 4:42:20 AM	Peak Integrated by Software
Q3306-03	VL043067.D	Propene	sam	10/9/2025 1:34:35 PM	MMdadoda	10/10/2025 4:42:20 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

vl100825

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL100225

Review By	Semsettin Yesilyurt	Review On	10/3/2025 9:49:03 AM		
Supervise By	Maresh Dadoda	Supervise On	10/10/2025 2:54:57 AM		
SubDirectory	VL100225	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2682			
Initial Calibration Stds		AP2678,AP2679,AP2680			
CCC		AP2678			
Internal Standard/PEM		AP2682			
ICV/I.BLK		AP2681			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampled	Data File Name	Date-Time	Operator	Status
1	BFB	VL043030.D	02 Oct 2025 09:11	SY/MD	Ok
2	VSTDIC0.5	VL043031.D	02 Oct 2025 09:50	SY/MD	Ok,M
3	VSTDICCC010	VL043032.D	02 Oct 2025 10:23	SY/MD	Ok,M
4	VSTDIC002	VL043033.D	02 Oct 2025 10:57	SY/MD	Ok,M
5	VSTDIC001	VL043034.D	02 Oct 2025 11:29	SY/MD	Ok,M
6	VSTDIC0.5	VL043035.D	02 Oct 2025 12:02	SY/MD	Not Ok
7	VSTDIC0.1	VL043036.D	02 Oct 2025 12:35	SY/MD	Ok,M
8	VSTDIC0.03	VL043037.D	02 Oct 2025 13:07	SY/MD	Ok,M
9	VSTDIC015	VL043038.D	02 Oct 2025 13:41	SY/MD	Ok,M
10	VSTDICV010	VL043039.D	02 Oct 2025 14:14	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL100825

Review By	Semsettin Yesilyurt	Review On	10/9/2025 1:56:13 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:42:55 AM		
SubDirectory	VL100825	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2682			
Initial Calibration Stds		AP2678,AP2679,AP2680			
CCC		AP2678			
Internal Standard/PEM		AP2682			
ICV/I.BLK		AP2681			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL043053.D	08 Oct 2025 08:00	SY/MD	Ok
2	VSTDCCC010	VL043054.D	08 Oct 2025 08:54	SY/MD	Ok,M
3	VL1008ABL01	VL043055.D	08 Oct 2025 09:39	SY/MD	Ok
4	VL1008ABS01	VL043056.D	08 Oct 2025 10:23	SY/MD	Ok,M
5	QC100625 CAN 10595	VL043057.D	08 Oct 2025 11:10	SY/MD	Not Ok
6	QC100725 CAN 10420	VL043058.D	08 Oct 2025 11:43	SY/MD	Ok
7	QC100725 CAN 10133	VL043059.D	08 Oct 2025 12:16	SY/MD	Ok
8	QC100725 CAN 10122	VL043060.D	08 Oct 2025 12:49	SY/MD	Ok
9	Q3306-01	VL043061.D	08 Oct 2025 13:23	SY/MD	Ok,M
10	Q3306-01DUP	VL043062.D	08 Oct 2025 13:58	SY/MD	Ok,M
11	Q3306-02	VL043063.D	08 Oct 2025 14:32	SY/MD	Ok,M
12	Q3306-04	VL043064.D	08 Oct 2025 15:05	SY/MD	Not Ok
13	Q3306-03	VL043065.D	08 Oct 2025 15:38	SY/MD	Not Ok
14	Q3306-04	VL043066.D	08 Oct 2025 19:57	SY/MD	Ok,M
15	Q3306-03	VL043067.D	08 Oct 2025 20:30	SY/MD	Ok,M
16	VIBLK	VL043068.D	08 Oct 2025 21:03	SY/MD	Ok
17	QC100684 CAN 10595	VL043069.D	08 Oct 2025 21:36	SY/MD	Not Ok
18	Q3320-13	VL043070.D	08 Oct 2025 22:10	SY/MD	Ok,M
19	Q3320-13DL	VL043071.D	08 Oct 2025 22:43	SY/MD	Not Ok
20	Q3320-09	VL043072.D	08 Oct 2025 23:16	SY/MD	Ok,M
21	Q3320-09DL	VL043073.D	08 Oct 2025 23:49	SY/MD	Not Ok

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QCBatch ID # VL100825

Review By	Semsettin Yesilyurt	Review On	10/9/2025 1:56:13 PM		
Supervise By	Maresh Dadoda	Supervise On	10/10/2025 4:42:55 AM		
SubDirectory	VL100825	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2682				
Initial Calibration Stds	AP2678,AP2679,AP2680				
CCC	AP2678				
Internal Standard/PEM	AP2682				
ICV/I.BLK	AP2681				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q3320-05	VL043074.D	09 Oct 2025 00:22	SY/MD	Ok,M
23	Q3320-05DL	VL043075.D	09 Oct 2025 00:55	SY/MD	Not Ok
24	Q3320-07	VL043076.D	09 Oct 2025 01:28	SY/MD	Ok,M
25	Q3320-07DL	VL043077.D	09 Oct 2025 02:01	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL100225

Review By	Semsettin Yesilyurt	Review On	10/3/2025 9:49:03 AM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 2:54:57 AM		
SubDirectory	VL100225	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2682
Initial Calibration Stds	AP2678,AP2679,AP2680
CCC	AP2678
Internal Standard/PEM	AP2682
ICV/I.BLK	AP2681
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043030.D	02 Oct 2025 09:11		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL043031.D	02 Oct 2025 09:50		SY/MD	Ok,M
3	VSTDICCC010	VSTDICCC010	VL043032.D	02 Oct 2025 10:23	LR-13,80 and QR-79	SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL043033.D	02 Oct 2025 10:57		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL043034.D	02 Oct 2025 11:29		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL043035.D	02 Oct 2025 12:02	Not used	SY/MD	Not Ok
7	VSTDICC0.1	VSTDICC0.1	VL043036.D	02 Oct 2025 12:35		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL043037.D	02 Oct 2025 13:07		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL043038.D	02 Oct 2025 13:41		SY/MD	Ok,M
10	VSTDICV010	ICVVL100225	VL043039.D	02 Oct 2025 14:14		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL100825

Review By	Semsettin Yesilyurt	Review On	10/9/2025 1:56:13 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:42:55 AM		
SubDirectory	VL100825	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2682
Initial Calibration Stds	AP2678,AP2679,AP2680
CCC	AP2678
Internal Standard/PEM	AP2682
ICV/I.BLK	AP2681
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL043053.D	08 Oct 2025 08:00		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL043054.D	08 Oct 2025 08:54		SY/MD	Ok,M
3	VL1008ABL01	VL1008ABL01	VL043055.D	08 Oct 2025 09:39		SY/MD	Ok
4	VL1008ABS01	VL1008ABS01	VL043056.D	08 Oct 2025 10:23		SY/MD	Ok,M
5	QC100625 CAN 10595	QC100625 CAN 10595	VL043057.D	08 Oct 2025 11:10	lab contaminate	SY/MD	Not Ok
6	QC100725 CAN 10420	QC100725 CAN 10420	VL043058.D	08 Oct 2025 11:43		SY/MD	Ok
7	QC100725 CAN 10133	QC100725 CAN 10133	VL043059.D	08 Oct 2025 12:16		SY/MD	Ok
8	QC100725 CAN 10122	QC100725 CAN 10122	VL043060.D	08 Oct 2025 12:49		SY/MD	Ok
9	Q3306-01	IA1	VL043061.D	08 Oct 2025 13:23		SY/MD	Ok,M
10	Q3306-01DUP	IA1DUP	VL043062.D	08 Oct 2025 13:58		SY/MD	Ok,M
11	Q3306-02	OA1	VL043063.D	08 Oct 2025 14:32		SY/MD	Ok,M
12	Q3306-04	SV2	VL043064.D	08 Oct 2025 15:05	rerun lower dilution	SY/MD	Not Ok
13	Q3306-03	SV1	VL043065.D	08 Oct 2025 15:38	rerun lower dilution	SY/MD	Not Ok
14	Q3306-04	SV2	VL043066.D	08 Oct 2025 19:57		SY/MD	Ok,M
15	Q3306-03	SV1	VL043067.D	08 Oct 2025 20:30		SY/MD	Ok,M
16	VIBLK	VIBLK	VL043068.D	08 Oct 2025 21:03		SY/MD	Ok
17	QC100684 CAN 10595	QC100684 CAN 10595	VL043069.D	08 Oct 2025 21:36	lab contaminate	SY/MD	Not Ok
18	Q3320-13	OA1	VL043070.D	08 Oct 2025 22:10		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL100825

Review By	Semsettin Yesilyurt	Review On	10/9/2025 1:56:13 PM		
Supervise By	Mahesh Dadoda	Supervise On	10/10/2025 4:42:55 AM		
SubDirectory	VL100825	HP Acquire Method	TO15AIR	HP Processing Method	VL100225AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2682				
Initial Calibration Stds	AP2678,AP2679,AP2680				
CCC	AP2678				
Internal Standard/PEM	AP2682				
ICV/I.BLK	AP2681				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3320-13DL	OA1DL	VL043071.D	08 Oct 2025 22:43	Not required	SY/MD	Not Ok
20	Q3320-09	IA5	VL043072.D	08 Oct 2025 23:16		SY/MD	Ok,M
21	Q3320-09DL	IA5DL	VL043073.D	08 Oct 2025 23:49	Not required	SY/MD	Not Ok
22	Q3320-05	IA3	VL043074.D	09 Oct 2025 00:22		SY/MD	Ok,M
23	Q3320-05DL	IA3DL	VL043075.D	09 Oct 2025 00:55	Not required	SY/MD	Not Ok
24	Q3320-07	IA4	VL043076.D	09 Oct 2025 01:28		SY/MD	Ok,M
25	Q3320-07DL	IA4DL	VL043077.D	09 Oct 2025 02:01	Not required	SY/MD	Not Ok

M : Manual Integration

Client Contact Information		Bottle Order ID : B2509073		Courier : F Galdun		1 of 4 COCs																											
Client ID : GFELO1		Project ID : All Projects		Sampler Name(s) : FRANK Galdun		Analysis																											
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS		Matrix																											
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																													
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified																													
State : NJ		Site Details : 74-16 Cypress Hwy St. GLENDALE, NY																															
Zip Code : 07034		Analysis Turnaround Time : 5 DAY																															
Country : USA		Standard : 10 business days OR 5 Days		Data Package Type : RESULTS ONLY																													
		Rush (Specify):		EDD Type : PDF																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum 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/Ambient Air	Soil Gas																		
IA1	10/17/2019	10:29	10:19	19	0	70	70	-30	-2.7	10503	10334	50	VL042625.D	1	1																		
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low Sampling site (State): Quick Connector required : NO																																	
GC/MS Analyst Signature (TO-15) Sunk																																	
*** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.																																	
PID Readings: 0.0																																	
Canisters Shipped by: SAV Samples Relinquished by: SAV Relinquished by:																																	
Date/Time: 09/29/19 Date/Time: 10/17/19 Date/Time:																																	
Canisters Received by: SAV Received by: Received by:																																	
Date/Time: 10/27/19 Date/Time: Date/Time:																																	
B2509073 - 2																																	

Client Contact Information		Bottle Order ID : B2509073		Courier : FGaldun		COCs							
Client ID : GFEL01		Project ID : All Projects		Sampler Name(s) : FRANK Galdun		Analysis							
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified		Matrix							
Address : 58 Nokomis Ave		Phone Number : 646-542-3465											
		Fax Number : 973-334-1692											
City : Lake Hiawatha		Site Details: 74-16 Cypress Hill St.											
State : NJ		GUTENBERG, NJ											
Zip Code : 07034		Analysis Turnaround Time 5 DAY											
Country :		Standard : 10-business days		Data Package Type : RESULTS ONLY									
		Rush (Specify): 5 Days		EDD Type : PDE									
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
0A1	01/25/2010	8:03	10:30	2	2	70	70	-30	-4.3	10502	10329	50	VL042625.D
Soil Gas Underground Air													
GC/MS Analyst Signature (TO-15) 													
Special Instructions/QC Requirements & Comments : REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.													
Suspected Contamination: High Medium Low Low PID Readings 0.0													
Quick Connector required : NO													
Canisters Shipped by: SGM													
Samples Relinquished by: FGaldun													
Relinquished by:													
Date/Time: 09/20/2010													
Date/Time: 10/27/25													
Date/Time: 12/4/2													
Date/Time:													

[illegible]

Client Contact Information		Bottle Order ID : B2509073		Courier : F. Giraud		Analysis		Matrix											
Client ID : GFELO1		Project ID : All Projects		Sampler Name(s) : Frank Giraud															
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS															
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY															
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified															
State : NJ		Analysis Turnaround Time : 5 DAY																	
Zip Code : 07034		Standard : 10-business days		Data Package Type : Results only															
Country : USA		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						
SV1	10/1/25	8:17	10:17	20.5	20.5	70	70	-30	-43	10511	10598	6 L	50	VL042703.D	1				
Temperature (Fahrenheit) Ambient: Maximum Minimum Start Stop Pressure (Inches of Hg) Ambient Maximum Minimum Start Stop										GC/MS Analyst Signature (TO-15) <i>[Signature]</i>									
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low (Low) Sampling site (State): Quick Connector required : No Canisters Shipped by: SEA Date/Time: 09/29/25 Canisters Received by: CG Date/Time: 10/15/25 Samples Relinquished by: FOA Date/Time: 10/17/25 Received by: CG Date/Time: 10/15/25 Relinquished by: FOA Date/Time: 10/17/25 Received by: CG Date/Time: 10/15/25										PID Readings: 4.14 KEEP ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.									

Indoor/Ambinet Air
Soil Gas

REQUESTED ANALYTE LIST:

PCE
TCE
cis-1,2-DCE
1,1,1-TCA
1,1-DCE
Vinyl chloride
Benzene
Toluene
Ethylbenzene
Naphthalene
Cyclohexane
2,2,4-Trimethylpentane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
o-xylene
m,p-xylene
Heptane
Hexane

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

NONE

Title: Sample Custodian

Field Sample Seal No.: Q3306

Date Broken: 10/7/2025

Military Time Seal Broken: 12:42:00

Case No.: 74-16 Cypress Hill St, Gler

Analytical Parameter/Fraction: MOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3306-01	IA1		
Q3306-02	OA1		
Q3306-03	SV1		
Q3306-04	SV2		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
10/7	1500	Signature		Signature		
		Printed Name	George N.	Printed Name	Sample Custodian	
		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		
		Signature		Signature		
		Printed Name		Printed Name		

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

~~Supervisor Signature:~~

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 : Q3306

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
10/08/2025	B2509073	Q3306-02	-4.3	10329	6 L	10502		C2506001	VL042625.D Seq :VL061625 TUNE : VL042621.D ICAL : VL042584.D CCAL : VL042622.D MB : VL042623.D
10/08/2025	B2509073	Q3306-01	-2.7	10334	6 L	10503		C2506001	VL042625.D Seq :VL061625 TUNE : VL042621.D ICAL : VL042584.D CCAL : VL042622.D MB : VL042623.D
10/08/2025	B2509073	Q3306-03	-4.3	10598	6 L	10511		C2507001	VL042703.D Seq :VL070325 TUNE : VL042698.D ICAL : VL042694.D CCAL : VL042699.D MB : VL042700.D
10/08/2025	B2509073	Q3306-04	-4.7	10439	6 L	10649		C2506001	VL042625.D Seq :VL061625 TUNE : VL042621.D ICAL : VL042584.D CCAL : VL042622.D MB : VL042623.D

10334 -2.7

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

CHEMTECH

Client Sample ID #: IA1

Client Name: GFE

Project Name: CYPRESS

Date: 10/7 Time: 10-15

Analysis: TO-15

Comments: TO-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
Sample: Q3306-01
Cust #: IA1

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10329 -4.3

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CHEMTECH

Client Sample ID #: OA1

Client Name: GFE

Project Name: CYPRESS

Date: 10/7 Time: 10-15

Analysis: TO-15

Comments: TO-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
Sample: Q3306-02
Cust #: OA1

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CHEMTECH

Client Sample ID #: SV1

Client Name: GFE

Project Name: CYPRESS

Date: 10/7 Time: 10-15

Analysis: TO-15

Comments: TO-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
Sample: Q3306-03
Cust #: SV1

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63761

147

Client Sample ID #: SV2
Client Name: ARE
Project Name: Cypress
Date: 10/7
Analysis: 10/7
Comments: 10/7
CHEMTECH'S SAMPLE ID: _____
Date Received: _____
Expiration Date: _____

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CHEMTECH

Storage Location: VOA Lab
Sample: Q3306-04
Cust #: SV2

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