



SHIPPING DOCUMENTS



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

Alliance Project No. :

23052

Client Contact Information				Bottle Order ID : B2508043				Courier : FGALDUN				1 of 3 COCs																											
Client ID : GFELO1 Project ID : 238 FLORIDA ST ELIZABETH NJ				Sampler Name(s) : FRANK GALDUN				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: 280 CONNECTICUT AVE NORWALK, CT																																							
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY				Indoor/Ambient Air Soil Gas																											
State : NJ				Standard : 10 business days OR				EDD Type : PDF																															
Zip Code : 07034				Rush (Specify): 5 Days																																			
Country :																																							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15																								
SVI	9/6/25	9:54	11:54	OVER 30	7	75	75	-30	-5.5	10767	10321	6 L	50	VL042860.D	1				1																				
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15)																													
Ambient																				Maximum										Minimum									
Start																																							
Stop																																							
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, CIS-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCA, 1,1-DCA, 1,2-DCA, VINYL CHLORIDE 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: 1, 0																																							
Sampling site (State):																																							
Quick Connector required : NO																																							
Canisters Shipped by: FG				Date/Time: 8/27/25				Canisters Received by: CS				Date/Time: 9/8/25 13:20				B2508043 - 6																							
Samples Relinquished by: FG				Date/Time: 9/8/25				Received by:				Date/Time:																											
Relinquished by:				Date/Time:				Received by:				Date/Time:																											

Client Contact Information				Bottle Order ID : B2508043				Courier : FGaldun				2 of 4 COCs				
Client ID : GFEL01				Project ID : 333 FLORIDA ST ELIZABETH NJ				Sampler Name(s) : FRANK Galdun				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: 280 CONNECTICUT AVE NORWALK, CT																
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY								
State : NJ				Standard : 10 business days OR												
Zip Code : 07034				Rush (Specify): 5 Days				EDD Type : PDF								
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SV2	9/6/25	11:15	1:15	OVER 30	5.5	75	78	-30	-7.5	10525	10590	6 L	50	VL042860.D	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 						
		Ambient	Maximum	Minimum												
Start																
Stop																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, CIS-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCA, 1,1-DCA, 1,2-DCA, VINYLCHLORIDE Please follow the instructions on the back of this COC.						
		Ambient	Maximum	Minimum												
Start																
Stop																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: 50																
Sampling site (State):																
Quick Connector required : NO																
Canisters Shipped by: FG				Date/Time: 9/27/25				Canisters Received by: OG				Date/Time: 9/8/25 13:20				
Samples Relinquished by: FG				Date/Time: 9/8/25				Received by:				Date/Time:				
Relinquished by:				Date/Time:				Received by:				Date/Time:				



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

Alliance Project No. :

Q3052

Client Contact Information				Bottle Order ID : B2508043				Courier : FGALDUN				13 of 48 COCs							
Client ID : GFELO1 Project ID : 283 FLORIDA CT ELIZABETH NJ				Sampler Name(s) : FRANK GALDUN				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															
Site Details: 280 CONNECTICUT AVE NORWALK CT																			
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY				Indoor/Ambient Air Soil Gas							
State : NJ				Standard : 10 business days OR				EDD Type : PDF											
Zip Code : 07034				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		
IAI		9/6/25	11:08	1:08	OVER 30	4.5	75	78	-30	-5.1	10707	10280	6 L	50	VL042860.D	1	1		
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15)									
		Ambient		Maximum		Minimum													
Start																			
Stop																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCF, 1,1-DCA, 1,2-DCA, VINYLCHLORIDE Please follow the instructions on the back of this COC.									
		Ambient		Maximum		Minimum													
Start																			
Stop																			
Special Instructions/QC Requirements & Comments :																			
Suspected Contamination: High Medium Low PID Readings: 0.0																			
Sampling site (State):																			
Quick Connector required : NO																			
Canisters Shipped by: FGALDUN				Date/Time: 8/27/25				Canisters Received by: AG				Date/Time: 9/8/25 1320				B2508043 - 4			
Samples Relinquished by:				Date/Time: 9/8/25				Received by:				Date/Time:							
Relinquished by:				Date/Time:				Received by:				Date/Time:							

Client Contact Information				Bottle Order ID : 82508043				Courier : <u>FGALDUN</u>				4 of 4 COCs			
Client ID : GFEL01				Project ID : <u>273 FLORIDA ST ELIZABETH NJ</u>				Sampler Name(s) : <u>FRANK GALDUN</u>				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: <u>280 CONNECTICUT AVE NORWALK, CT</u>											
				Analysis Turnaround Time <u>5 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>							
				Standard : <u>10 business days</u> OR				EDD Type : <u>PDF</u>							
Rush (Specify): <u>5</u> 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
OA1	9/6/25	10:25	12:28	30	6	/	/	-30	-5.1	10528	10315	6 L	50	VL042860.D	1	1

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15)
	Ambient	Maximum	Minimum		
Start	80				
Stop	84				

Pressure (Inches of Hg)					** Submittal of this COC Indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCA, 1,1-DCA, 1,2-DCA, VINYLCHLORIDE Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : NR

Canisters Shipped by: <u>NR</u>	Date/Time: <u>8/27/25</u>	Canisters Received by: <u>CR</u>	Date/Time: <u>9/8/25 1320</u>
Samples Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2508043 - 5

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: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~None~~

Title: Sample Custodian

OK

Field Sample Seal No. Q3052

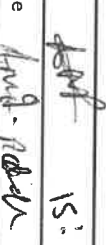
Date Broken 9/8/2025

Military Time Seal Broken: 13:20:00

Case No.: 280 CONNECTICUT AVE NC

Analytical Parameter/Fraction/OCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3052-01	SV1		
Q3052-02	SV2		
Q3052-03	IA1		
Q3052-04	OAI		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
9/8/25	5:15	Signature		Signature		
		Printed Name	Cassanova Perle	Printed Name	Andrew P. P. P.	
		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

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:	Q3052	OrderDate:	9/8/2025 2:38:42 PM
Client:	GFE LLC	Project:	280 CONNECTICUT AVE NORWALK CT
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3052-01	SV1	Air	VOCMS Group2	TO-15	09/06/25		09/08/25	09/08/25
Q3052-01DL	SV1DL	Air	VOCMS Group2	TO-15	09/06/25		09/09/25	09/08/25
Q3052-02	SV2	Air	VOCMS Group2	TO-15	09/06/25		09/10/25	09/08/25
Q3052-02DL	SV2DL	Air	VOCMS Group2	TO-15	09/06/25		09/10/25	09/08/25
Q3052-03	IA1	Air	VOCMS Group2	TO-15	09/06/25		09/08/25	09/08/25
Q3052-03DL	IA1DL	Air	VOCMS Group2	TO-15	09/06/25		09/08/25	09/08/25
Q3052-04	OA1	Air	VOCMS Group2	TO-15	09/06/25		09/08/25	09/08/25

Hit Summary Sheet
SW-846

SDG No.: Q3052
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q3052-01	SV1	Air	Trichloroethene	6.45		5.16	6.45	ug/m3
Q3052-01	SV1	Air	Tetrachloroethene	10800	E	4.07	8.14	ug/m3
			Total Voc :	10900				
			Total Concentration:	10900				
Client ID:	SV1DL							
Q3052-01DL	SV1DL	Air	Tetrachloroethene	9490	D	20.3	40.7	ug/m3
			Total Voc :	9490				
			Total Concentration:	9490				
Client ID:	SV2							
Q3052-02	SV2	Air	Trichloroethene	5.16		0.54	0.64	ug/m3
Q3052-02	SV2	Air	Tetrachloroethene	2370	E	0.41	0.81	ug/m3
			Total Voc :	2380				
			Total Concentration:	2380				
Client ID:	SV2DL							
Q3052-02DL	SV2DL	Air	Tetrachloroethene	2370	D	4.07	8.14	ug/m3
			Total Voc :	2370				
			Total Concentration:	2370				
Client ID:	IA1							
Q3052-03	IA1	Air	Vinyl Chloride	0.10		0.080	0.080	ug/m3
Q3052-03	IA1	Air	Tetrachloroethene	678	E	0.14	0.20	ug/m3
			Total Voc :	678				
			Total Concentration:	678				
Client ID:	IA1DL							
Q3052-03DL	IA1DL	Air	Tetrachloroethene	678	D	2.03	4.07	ug/m3
			Total Voc :	678				
			Total Concentration:	678				



QC SUMMARY

Surrogate Summary

SDG No.: **Q3052**

Client: **GFE LLC**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q3052-01	SV1	1-Bromo-4-Fluorobenzene	10	11.1	111		65	135
Q3052-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.6	106		65	135
Q3052-02	SV2	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q3052-02DL	SV2DL	1-Bromo-4-Fluorobenzene	10	10.3	103		65	135
Q3052-02DLDU	SV2DL DUP	1-Bromo-4-Fluorobenzene	10	10.6	106		65	135
Q3052-03	IA1	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
Q3052-03DL	IA1DL	1-Bromo-4-Fluorobenzene	10	9.59	96		65	135
Q3052-04	OA1	1-Bromo-4-Fluorobenzene	10	9.93	99		65	135
Q3052-04DUP		1-Bromo-4-Fluorobenzene	10	10.0	100		65	135
VL0908ABL01	VL0908ABL01	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
VL0908ABS01	VL0908ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
VL0910ABL01	VL0910ABL01	1-Bromo-4-Fluorobenzene	10	9.95	100		65	135
VL0910ABS01	VL0910ABS01	1-Bromo-4-Fluorobenzene	10	10.7	107		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3052</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042902.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0908ABS01	Vinyl Chloride	10	9.60	ppbv	96			70	130	
	trans-1,2-Dichloroethene	10	10.0	ppbv	100			70	130	
	1,1-Dichloroethane	10	10.1	ppbv	101			70	130	
	cis-1,2-Dichloroethene	10	9.80	ppbv	98			70	130	
	1,1,1-Trichloroethane	10	9.40	ppbv	94			70	130	
	1,2-Dichloroethane	10	12.7	ppbv	127			70	130	
	Trichloroethene	10	10.4	ppbv	104			70	130	
	Tetrachloroethene	10	9.60	ppbv	96			70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q3052</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042923.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0910ABS01	Vinyl Chloride	10	9.10	ppbv	91			70	130	
	trans-1,2-Dichloroethene	10	9.60	ppbv	96			70	130	
	1,1-Dichloroethane	10	9.60	ppbv	96			70	130	
	cis-1,2-Dichloroethene	10	8.80	ppbv	88			70	130	
	1,1,1-Trichloroethane	10	8.60	ppbv	86			70	130	
	1,2-Dichloroethane	10	12.5	ppbv	125			70	130	
	Trichloroethene	10	10.3	ppbv	103			70	130	
	Tetrachloroethene	10	9.20	ppbv	92			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q3052-02DLDUP	Q3052-02DL
Client Id :	SV2DLDUP	SV2DL
DF :	40	40
Datafile :	VL042926.D	VL042925.D
Anal Date & Time :	09/10/2025 13:33	09/10/2025 12:41

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,2-Dichloroethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	360	350	2.8
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethane	0	0	0
1,2-Dichloroethane	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0	0	0
trans-1,2-Dichloroethene	0	0	0
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

OA1

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3052

Lab File ID: VL042914.D

Lab Sample ID: Q3052-04DUP

Date Analyzed: 09/08/2025

Time Analyzed: 21:45

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
OA1	Q3052-04DUP	VL042914.D	09/08/2025
SV2DLDUP	Q3052-02DLDUP	VL042926.D	09/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0908ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3052

Lab File ID: VL042901.D

Lab Sample ID: VL0908ABL01

Date Analyzed: 09/08/2025

Time Analyzed: 11:55

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
VL0908ABS01	VL0908ABS01	VL042902.D	09/08/2025
IA1	Q3052-03	VL042908.D	09/08/2025
OA1	Q3052-04	VL042909.D	09/08/2025
SV1	Q3052-01	VL042910.D	09/08/2025
IA1DL	Q3052-03DL	VL042913.D	09/08/2025
SV1DL	Q3052-01DL	VL042918.D	09/09/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0910ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3052

Lab File ID: VL042922.D

Lab Sample ID: VL0910ABL01

Date Analyzed: 09/10/2025

Time Analyzed: 10:21

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
VL0910ABS01	VL0910ABS01	VL042923.D	09/10/2025
SV2	Q3052-02	VL042924.D	09/10/2025
SV2DL	Q3052-02DL	VL042925.D	09/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3052

Lab File ID: VL042841.D

BFB Injection Date: 08/13/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:45

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	20.8
75	30.0 - 66.0% of mass 95	53.1
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 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	60 (96.7) 1
177	5.0 - 9.0% of mass 176	3.7 (6.1) 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
VSTDICCC010	VSTDICCC010	VL042842.D	08/13/2025	08:30
VSTDICCC002	VSTDICCC002	VL042843.D	08/13/2025	09:06
VSTDICCC001	VSTDICCC001	VL042844.D	08/13/2025	09:41
VSTDICCC0.5	VSTDICCC0.5	VL042845.D	08/13/2025	10:17
VSTDICCC0.1	VSTDICCC0.1	VL042846.D	08/13/2025	10:53
VSTDICCC0.03	VSTDICCC0.03	VL042847.D	08/13/2025	11:30
VSTDICCC015	VSTDICCC015	VL042848.D	08/13/2025	12:06

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3052

Lab File ID: VL042899.D

BFB Injection Date: 09/08/2025

Instrument ID: MSVOA_L

BFB Injection Time: 08:41

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.4
75	30.0 - 66.0% of mass 95	58.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.5 (1) 1
174	50.0 - 120.0% of mass 95	55.2
175	4.0 - 9.0% of mass 174	4 (7.3) 1
176	93.0 - 101.0% of mass 174	54.2 (98.3) 1
177	5.0 - 9.0% of mass 176	3.4 (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	VL042900.D	09/08/2025	11:05
VL0908ABL01	VL0908ABL01	VL042901.D	09/08/2025	11:55
VL0908ABS01	VL0908ABS01	VL042902.D	09/08/2025	13:35
IA1	Q3052-03	VL042908.D	09/08/2025	17:45
OA1	Q3052-04	VL042909.D	09/08/2025	18:21
SV1	Q3052-01	VL042910.D	09/08/2025	18:56
IA1DL	Q3052-03DL	VL042913.D	09/08/2025	21:08
OA1	Q3052-04DUP	VL042914.D	09/08/2025	21:45
SV1DL	Q3052-01DL	VL042918.D	09/09/2025	08:22

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q3052

Lab File ID: VL042920.D

BFB Injection Date: 09/10/2025

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	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	56.2
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	0.6 (1.1) 1
174	50.0 - 120.0% of mass 95	55.9
175	4.0 - 9.0% of mass 174	4.5 (8) 1
176	93.0 - 101.0% of mass 174	52.1 (93.2) 1
177	5.0 - 9.0% of mass 176	3.5 (6.8) 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	VL042921.D	09/10/2025	09:36
VL0910ABL01	VL0910ABL01	VL042922.D	09/10/2025	10:21
VL0910ABS01	VL0910ABS01	VL042923.D	09/10/2025	11:15
SV2	Q3052-02	VL042924.D	09/10/2025	12:05
SV2DL	Q3052-02DL	VL042925.D	09/10/2025	12:41
SV2DLDP	Q3052-02DLDP	VL042926.D	09/10/2025	13:33

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q3052
 Lab File ID: VL042900.D Date Analyzed: 09/08/2025
 Instrument ID: MSVOA_L Time Analyzed: 11:05
 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	126678	2.78	333606	3.94	282770	8.87
UPPER LIMIT	177349	3.11	467048	4.27	395878	9.20
LOWER LIMIT	76006.8	2.45	200164	3.61	169662	8.54
EPA SAMPLE NO.						
SV1	133612	2.78	335875	3.95	297707	8.88
SV1DL	135091	2.78	321825	3.94	280969	8.87
IA1	141872	2.78	356641	3.96	304804	8.88
IA1DL	132040	2.78	322758	3.96	271668	8.88
OA1	139372	2.78	343291	3.95	289088	8.88
OA1	131415	2.78	322981	3.95	272303	8.87
VL0908ABL01	141293	2.78	355217	3.95	298537	8.88
VL0908ABS01	139945	2.78	365857	3.95	306385	8.87

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.: Q3052
 Lab File ID: VL042921.D Date Analyzed: 09/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 09:36
 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	144491	2.78	369791	3.96	305623	8.88
UPPER LIMIT	202287	3.11	517707	4.29	427872	9.21
LOWER LIMIT	86694.6	2.45	221875	3.63	183374	8.55
EPA SAMPLE NO.						
SV2	145473	2.78	373895	3.95	348255	8.88
SV2DL	147188	2.78	371484	3.95	320718	8.88
SV2DLDUP	141045	2.78	346694	3.95	303060	8.88
VL0910ABL01	137030	2.78	339612	3.95	283645	8.88
VL0910ABS01	144213	2.79	359262	3.96	297345	8.88

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.



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	SV1	SDG No.:	Q3052
Lab Sample ID:	Q3052-01	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
VL042910.D	40		09/08/25 18:56	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.00	2.56	U	2.56	3.07	ug/m3
156-60-5	trans-1,2-Dichloroethene	4.80	19.0	U	19.0	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	U	21.1	81.0	ug/m3
156-59-2	cis-1,2-Dichloroethene	4.00	15.9	U	15.9	79.3	ug/m3
71-55-6	1,1,1-Trichloroethane	0.64	3.49	U	3.49	6.55	ug/m3
107-06-2	1,2-Dichloroethane	3.70	15.0	U	15.0	81.0	ug/m3
79-01-6	Trichloroethene	1.20	6.45		5.16	6.45	ug/m3
127-18-4	Tetrachloroethene	1600	10800	E	4.07	8.14	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	11.1			65 - 135	111%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	134000			2.784		
540-36-3	1,4-Difluorobenzene	336000			3.952		
3114-55-4	Chlorobenzene-d5	298000			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\VL090825\
 Data File : VL042910.D
 Acq On : 08 Sep 2025 18:56
 Operator : SY/MD
 Sample : Q3052-01 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:59:17 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	133612	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	335875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	297707	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	248461	11.128	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.300%
Target Compounds						
					Qvalue	
9) Propene	1.483	41	1644	0.176	ppbv	97
13) Ethanol	1.722	45	1691m	1.978	ppbv	
15) Acetone	1.836	43	30874	1.747	ppbv	98
19) Isopropyl Alcohol	1.884	45	16926	1.603	ppbv #	86
20) Methylene Chloride	2.059	84	1610	0.217	ppbv	87
26) Hexane	2.823	57	4408	0.223	ppbv #	40
29) Chloroform	2.845	83	19564	0.694	ppbv	88
34) 2-Butanone	2.561	43	2836	0.125	ppbv #	86
38) Trichloroethene	4.532	130	443m	0.030	ppbv	
52) Tetrachloroethene	8.218	164	476578	40.959	ppbv	90
53) Toluene	6.930	91	4428m	0.116	ppbv	
59) m/p-Xylene	9.523	91	5463m	0.133	ppbv	

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

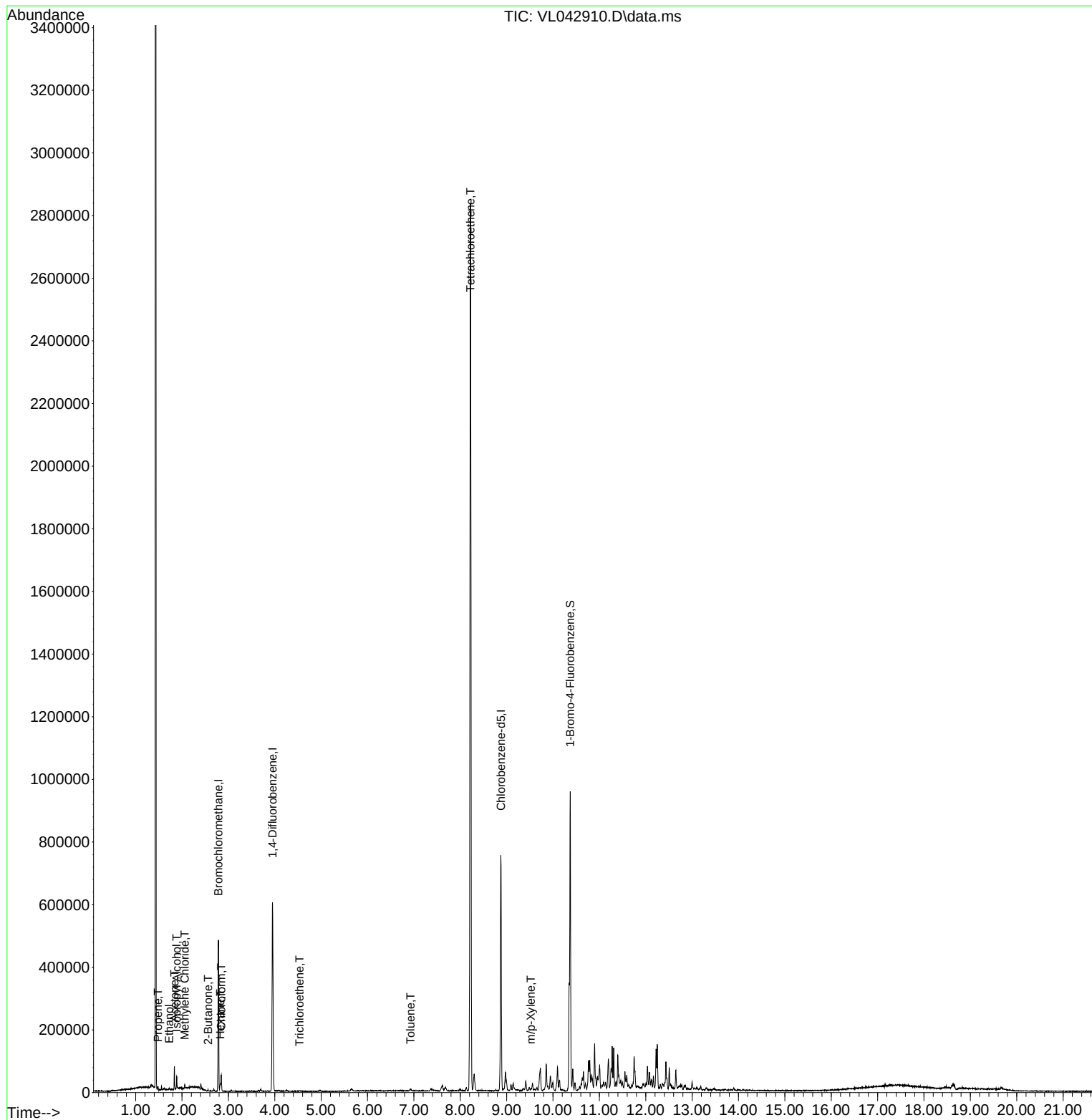
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Data File : VL042910.D
Acq On : 08 Sep 2025 18:56
Operator : SY/MD
Sample : Q3052-01 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

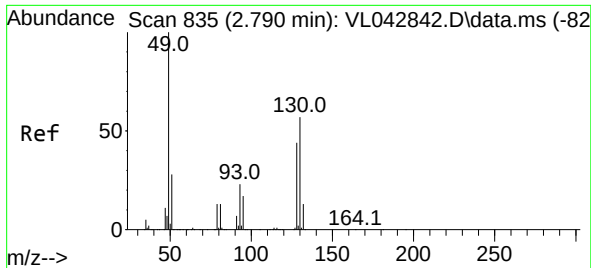
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Sep 09 00:59:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

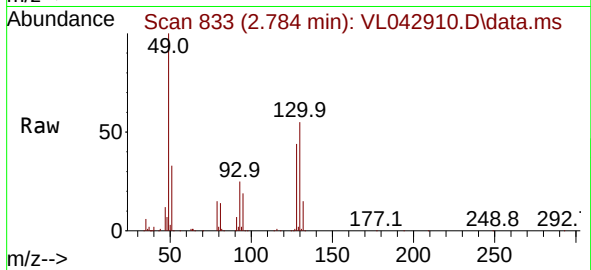
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

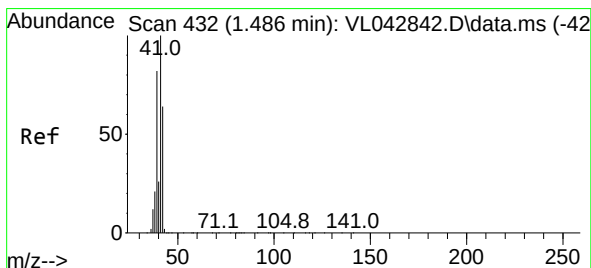
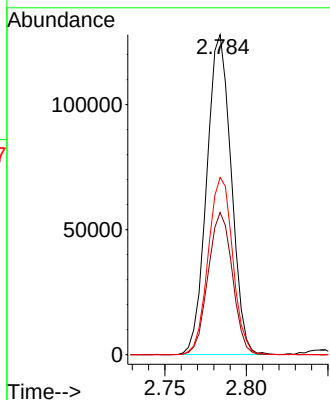
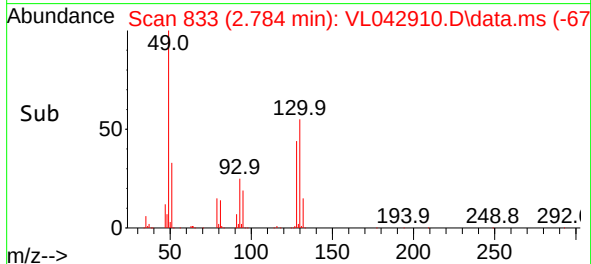
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 133612
Ion Ratio Lower Upper
49 100
128 44.2 23.7 71.1
130 55.6 30.6 91.6

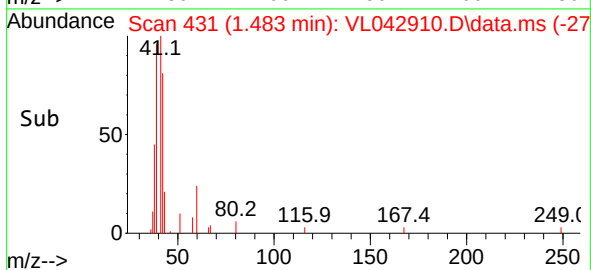
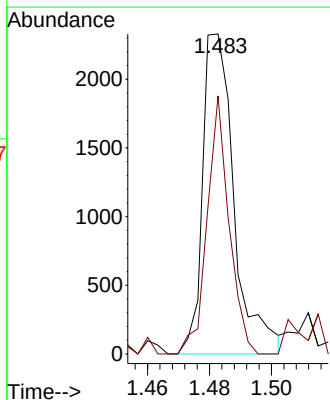
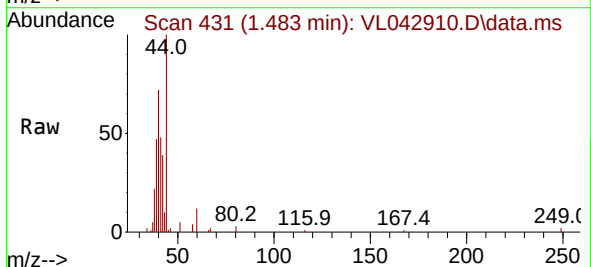
Manual Integrations
APPROVED

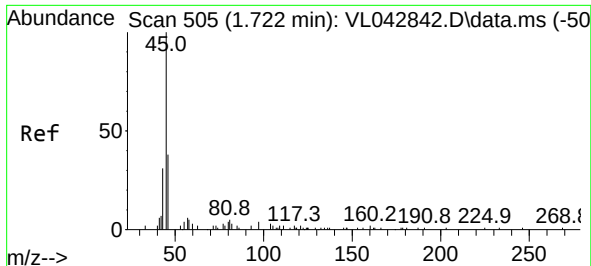
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#9
Propene
Concen: 0.176 ppbv
RT: 1.483 min Scan# 431
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

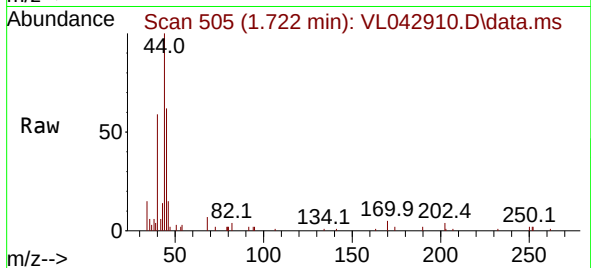
Tgt Ion: 41 Resp: 1644
Ion Ratio Lower Upper
41 100
42 63.7 53.0 79.4





#13
Ethanol
Concen: 1.978 ppbv m
RT: 1.722 min Scan# 505
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

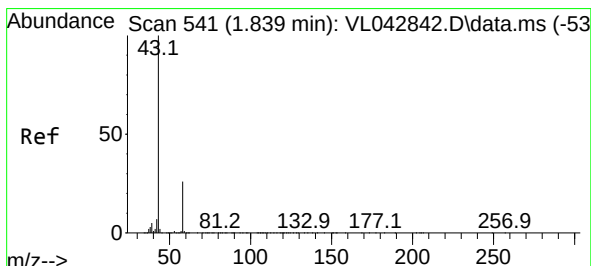
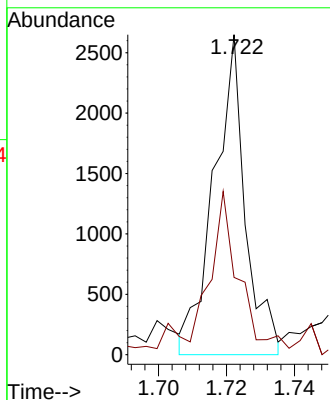
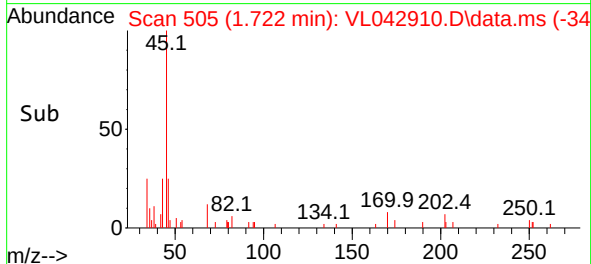
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 169
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9

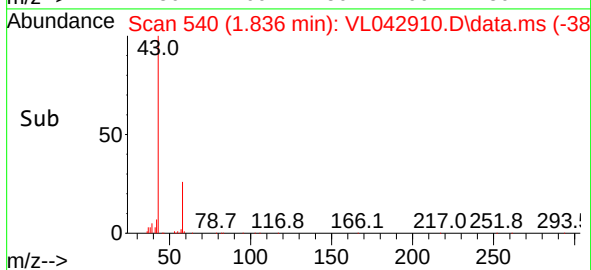
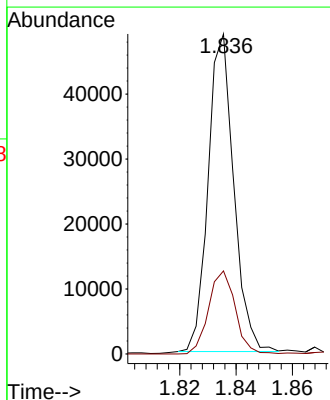
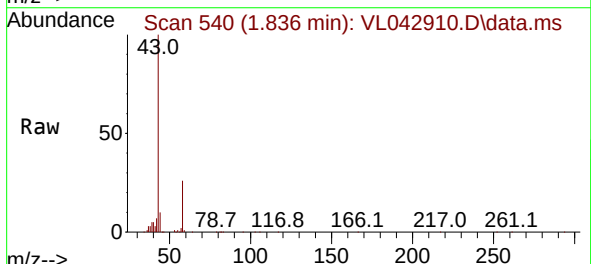
Manual Integrations
APPROVED

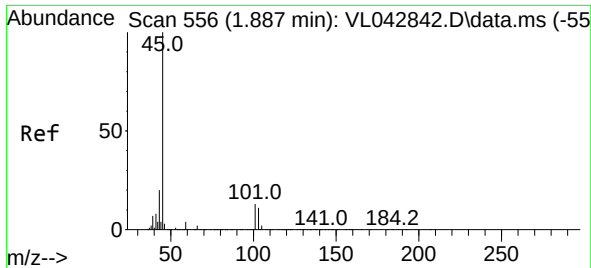
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#15
Acetone
Concen: 1.747 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 43 Resp: 30874
Ion Ratio Lower Upper
43 100
58 27.2 22.4 33.6





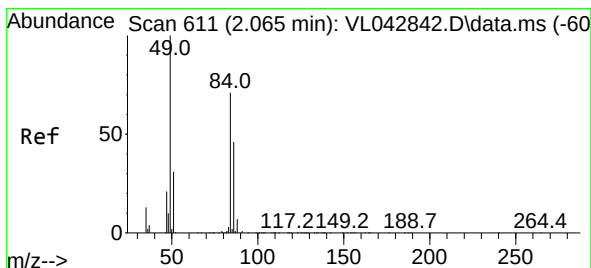
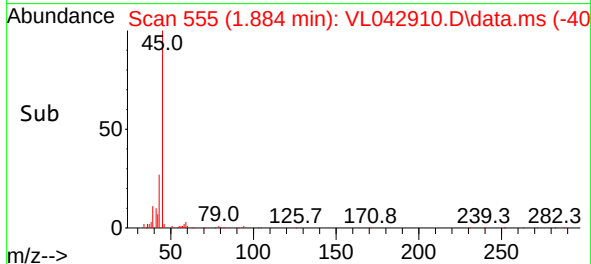
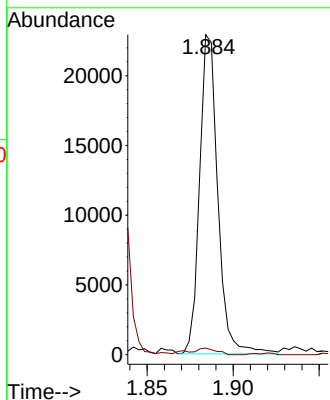
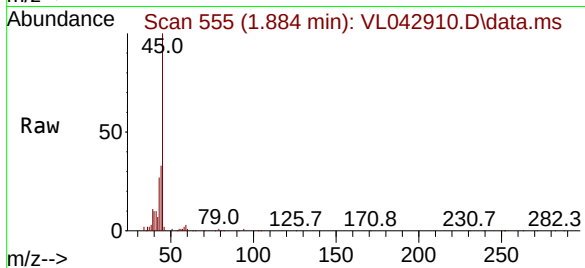
#19
Isopropyl Alcohol
Concen: 1.603 ppbv
RT: 1.884 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 16920
Ion Ratio Lower Upper
45 100
58 49.7 32.7 49.1

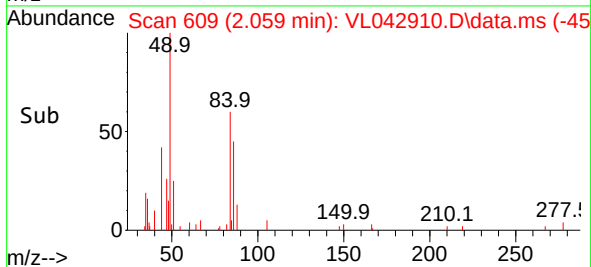
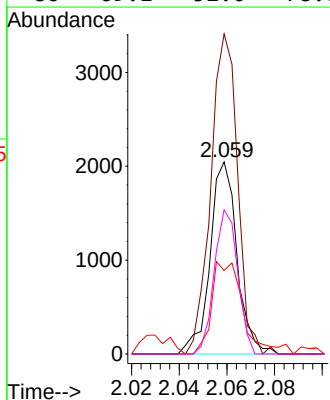
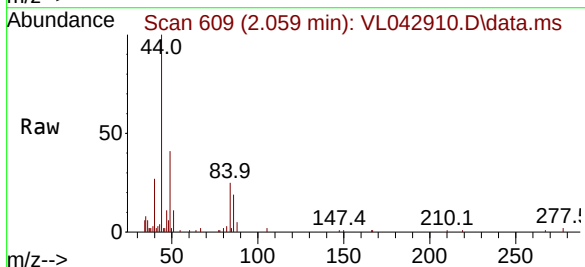
Manual Integrations
APPROVED

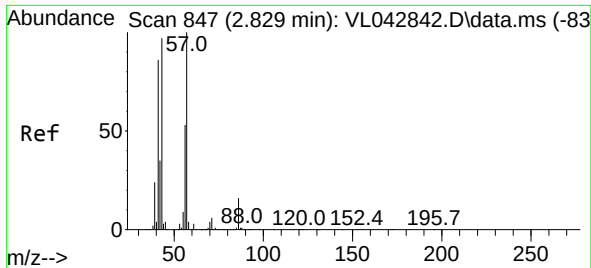
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 0.217 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 84 Resp: 1610
Ion Ratio Lower Upper
84 100
49 161.8 112.3 168.5
51 37.4 36.0 54.0
86 69.1 52.0 78.0





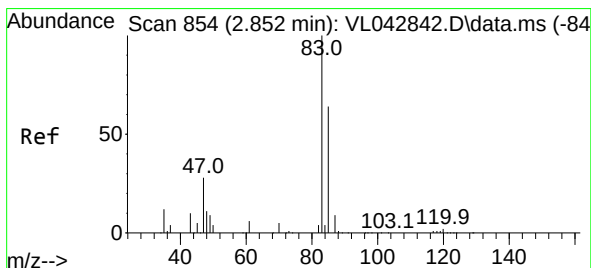
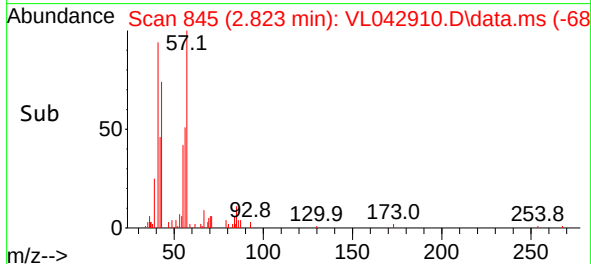
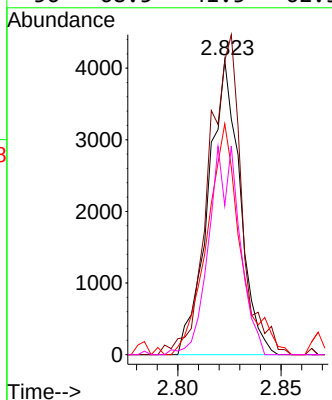
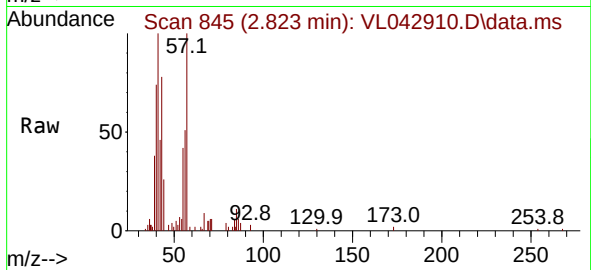
#26
Hexane
Concen: 0.223 ppbv
RT: 2.823 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 57 Resp: 4408
Ion Ratio Lower Upper
57 100
41 113.8 68.6 103.0
43 85.1 168.5 252.7
56 68.5 41.5 62.3

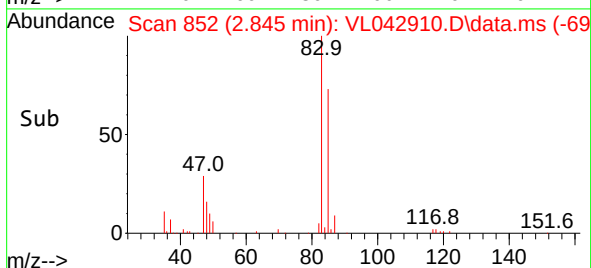
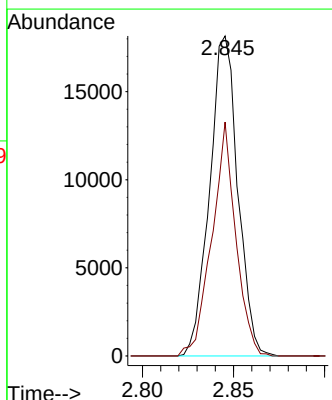
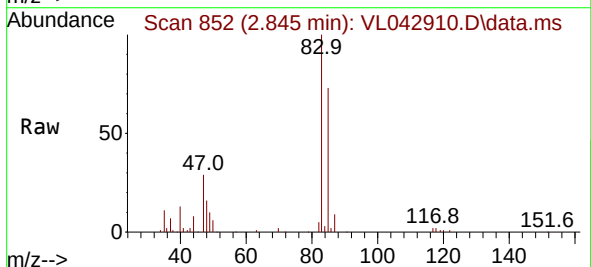
Manual Integrations
APPROVED

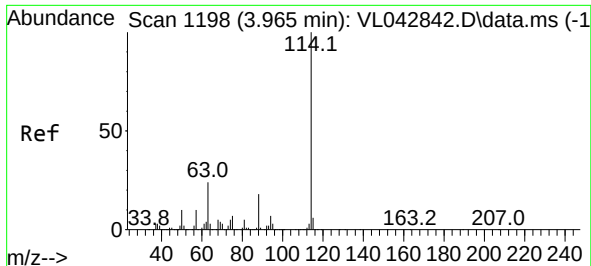
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 0.694 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.006 min
Lab File: VL042910.D
Acq: 08 Sep 2025 18:56

Tgt Ion: 83 Resp: 19564
Ion Ratio Lower Upper
83 100
85 73.1 51.1 76.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 33587

Ion Ratio Lower Upper

114 100

63 26.9 19.7 29.5

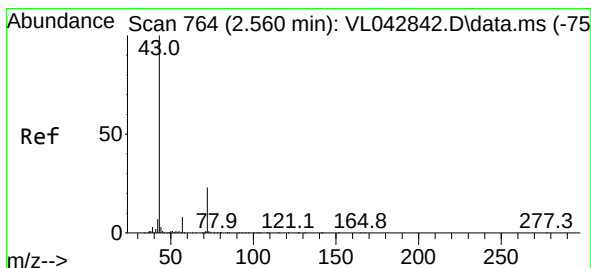
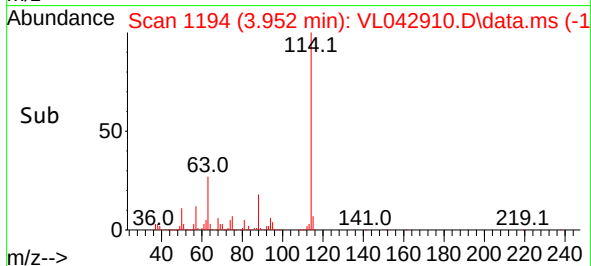
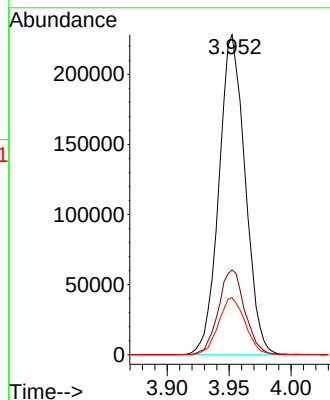
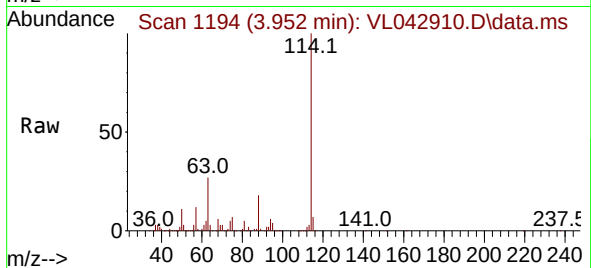
88 18.2 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 0.125 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.013 min

Lab File: VL042910.D

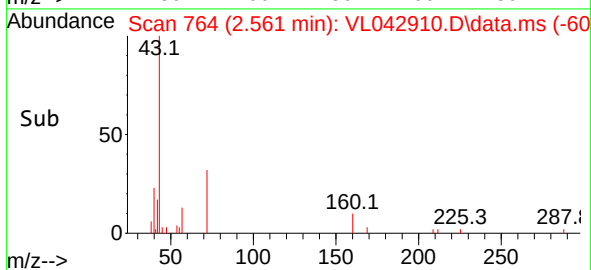
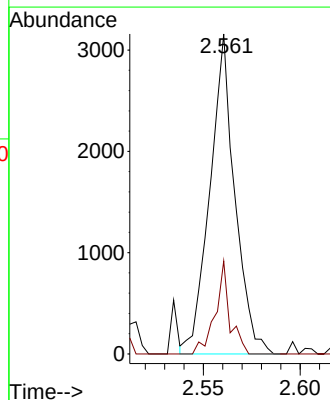
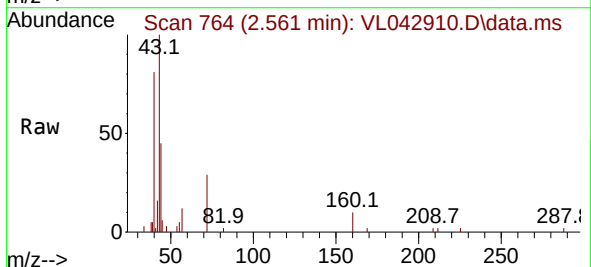
Acq: 08 Sep 2025 18:56

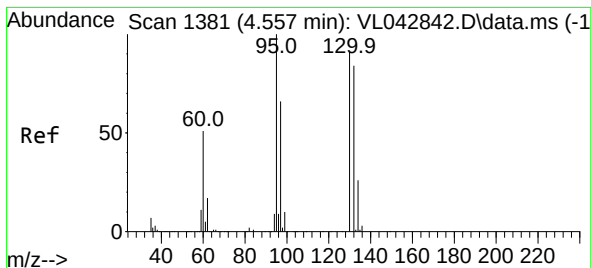
Tgt Ion: 43 Resp: 2836

Ion Ratio Lower Upper

43 100

72 16.7 18.6 28.0#





#38

Trichloroethene

Concen: 0.030 ppbv m

RT: 4.532 min Scan# 1373

Delta R.T. -0.000 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:130 Resp: 44

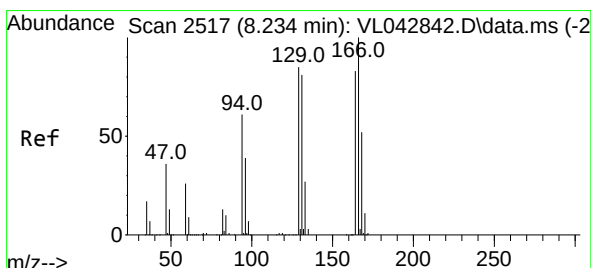
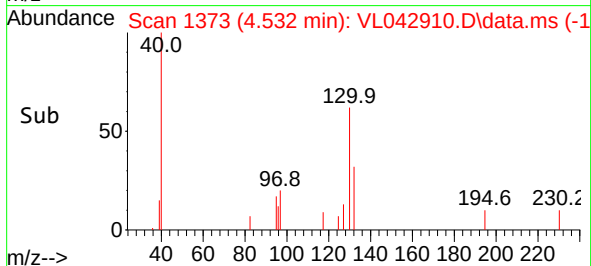
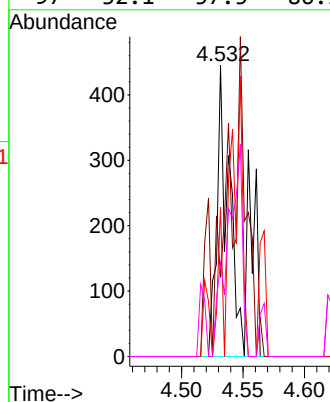
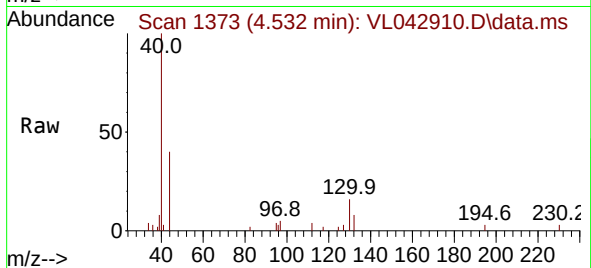
Ion	Ratio	Lower	Upper
130	100		
95	27.2	87.6	131.4
132	51.2	73.8	110.8
97	32.1	57.5	86.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#52

Tetrachloroethene

Concen: 40.959 ppbv

RT: 8.218 min Scan# 2512

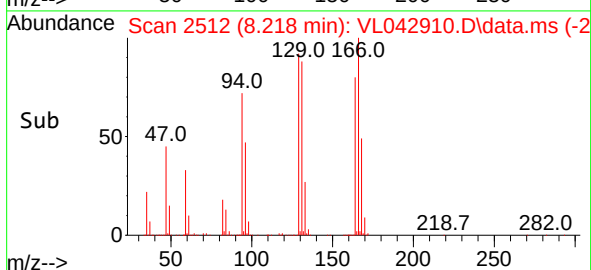
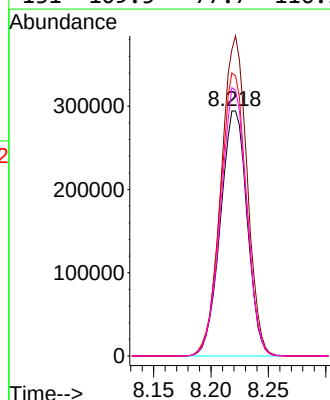
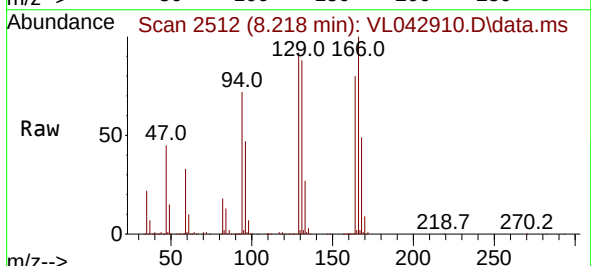
Delta R.T. 0.006 min

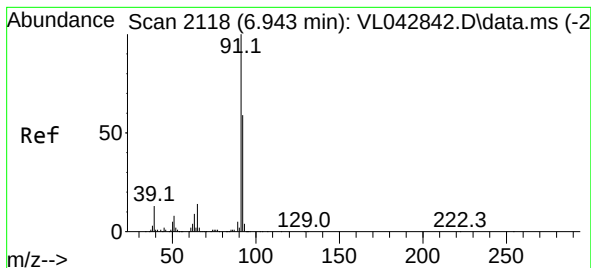
Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Tgt Ion:164 Resp: 476578

Ion	Ratio	Lower	Upper
164	100		
166	125.1	96.5	144.7
129	115.6	81.8	122.6
131	109.5	77.7	116.5





#53

Toluene

Concen: 0.116 ppbv m

RT: 6.930 min Scan# 2118

Delta R.T. 0.016 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 4428

Ion Ratio Lower Upper

91 100

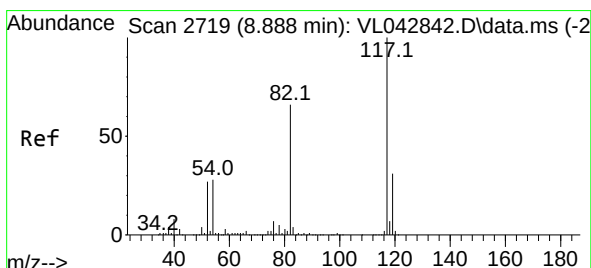
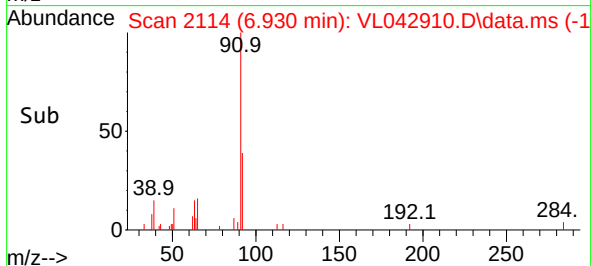
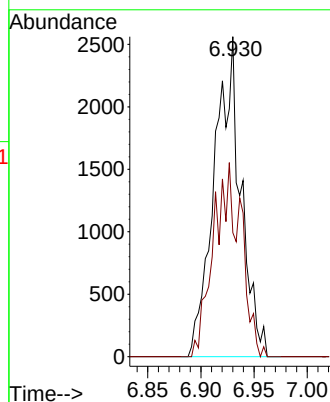
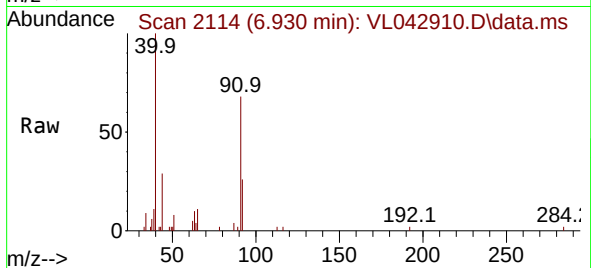
92 63.2 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.875 min Scan# 2715

Delta R.T. 0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

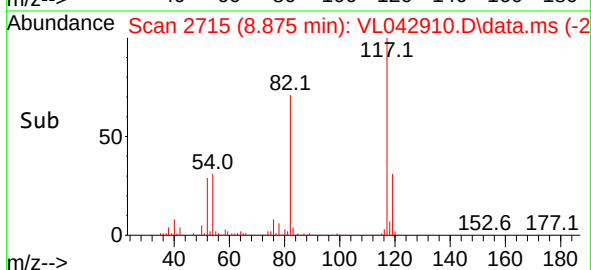
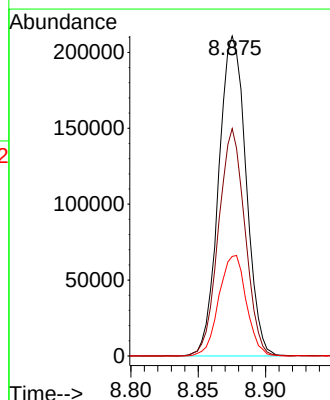
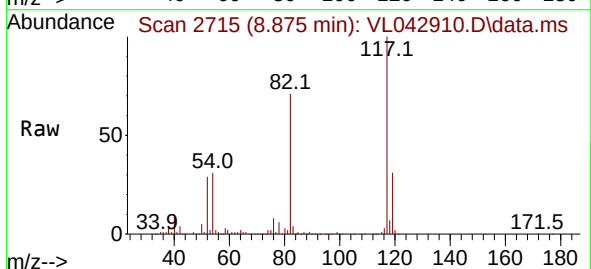
Tgt Ion:117 Resp: 297707

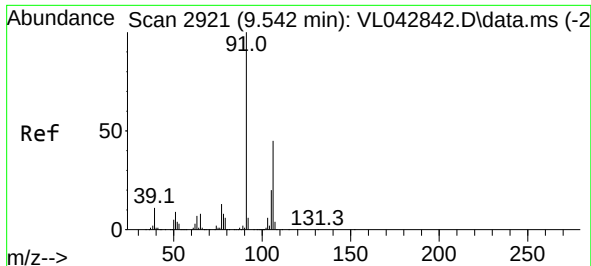
Ion Ratio Lower Upper

117 100

82 68.8 54.6 81.8

119 31.5 25.9 38.9





#59

m/p-Xylene

Concen: 0.133 ppbv m

RT: 9.523 min Scan# 2915

Delta R.T. -0.016 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Instrument :

MSVOA_L

ClientSampleId :

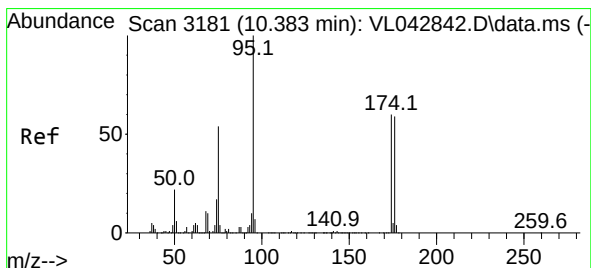
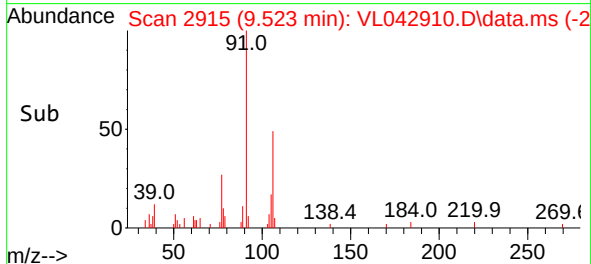
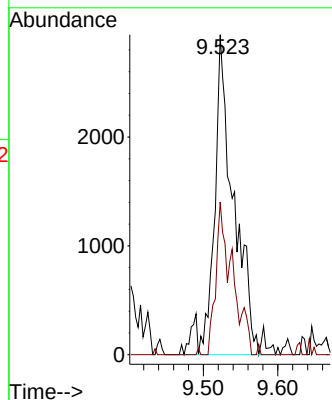
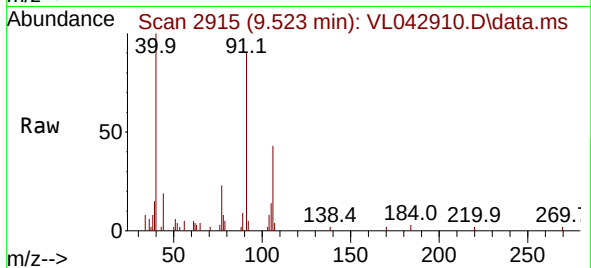
SV1

Tgt Ion: 91 Resp: 546
 Ion Ratio Lower Upper
 91 100
 106 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 11.128 ppbv

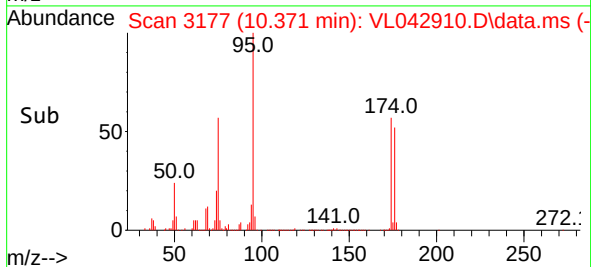
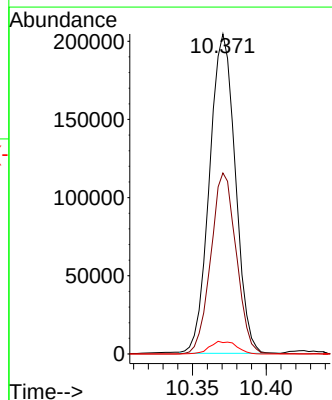
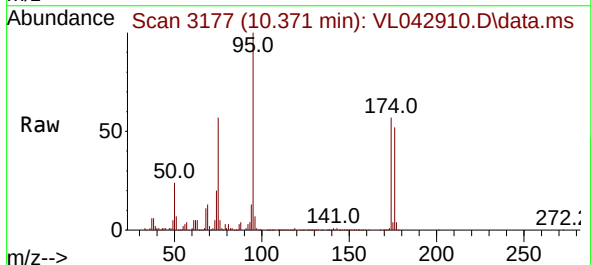
RT: 10.371 min Scan# 3177

Delta R.T. 0.006 min

Lab File: VL042910.D

Acq: 08 Sep 2025 18:56

Tgt Ion: 95 Resp: 248461
 Ion Ratio Lower Upper
 95 100
 174 56.0 48.4 72.6
 175 4.1 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	SV1DL	SDG No.:	Q3052
Lab Sample ID:	Q3052-01DL	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
VL042918.D	200		09/09/25 08:22	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	5.00	12.8	UD	12.8	15.3	ug/m3
156-60-5	trans-1,2-Dichloroethene	24.0	95.2	UD	95.2	396	ug/m3
75-34-3	1,1-Dichloroethane	26.0	105	UD	105	405	ug/m3
156-59-2	cis-1,2-Dichloroethene	19.8	78.5	UD	78.5	396	ug/m3
71-55-6	1,1,1-Trichloroethane	3.20	17.5	UD	17.5	32.7	ug/m3
107-06-2	1,2-Dichloroethane	18.6	75.3	UD	75.3	405	ug/m3
79-01-6	Trichloroethene	4.80	25.8	UD	25.8	32.3	ug/m3
127-18-4	Tetrachloroethene	1400	9490	D	20.3	40.7	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.6			65 - 135	106%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	135000		2.778			
540-36-3	1,4-Difluorobenzene	322000		3.943			
3114-55-4	Chlorobenzene-d5	281000		8.869			

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\VL090825\
 Data File : VL042918.D
 Acq On : 09 Sep 2025 08:22
 Operator : SY/MD
 Sample : Q3052-01DL 200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/10/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 10 04:00:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.778	49	135091	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	321825	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	280969	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	222436	10.556	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.600%
Target Compounds						
					Qvalue	
13) Ethanol	1.716	45	360m	0.417	ppbv	
15) Acetone	1.829	43	6927	0.388	ppbv	100
19) Isopropyl Alcohol	1.881	45	3376	0.316	ppbv #	74
20) Methylene Chloride	2.053	84	1679	0.224	ppbv #	78
29) Chloroform	2.839	83	3705	0.130	ppbv #	78
52) Tetrachloroethene	8.212	164	79545	7.135	ppbv	95

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

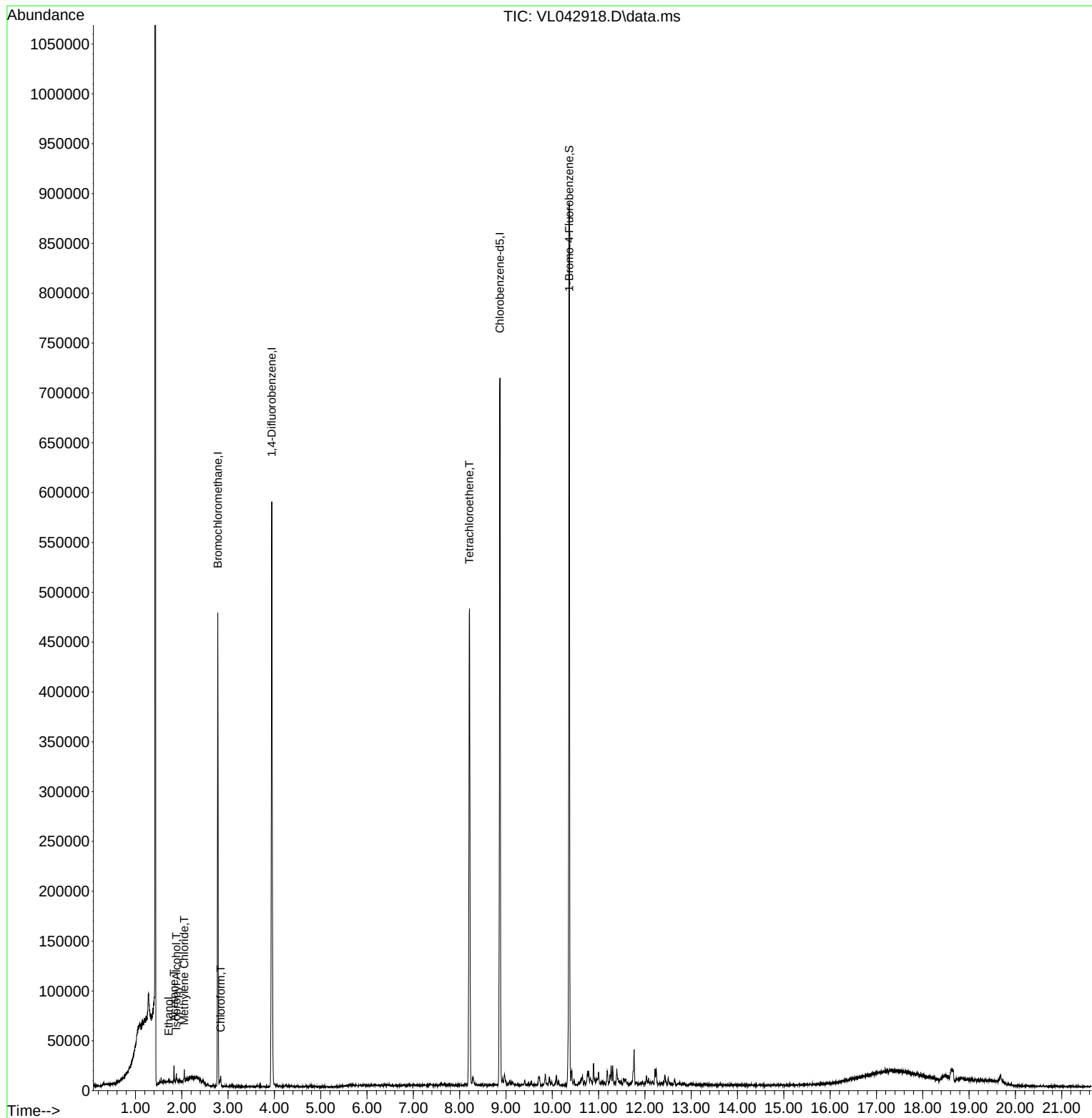
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042918.D
Acq On : 09 Sep 2025 08:22
Operator : SY/MD
Sample : Q3052-01DL 200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

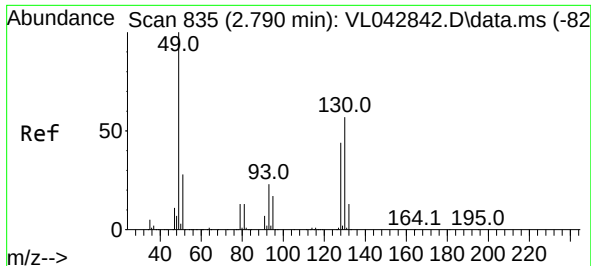
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/10/2025
Supervised By :Mahesh Dadoda 09/11/2025

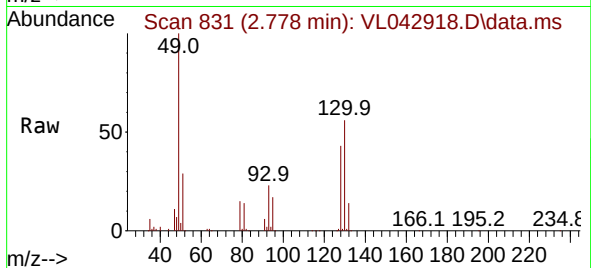
Quant Time: Sep 10 04:00:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.778 min Scan# 81
Delta R.T. 0.001 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

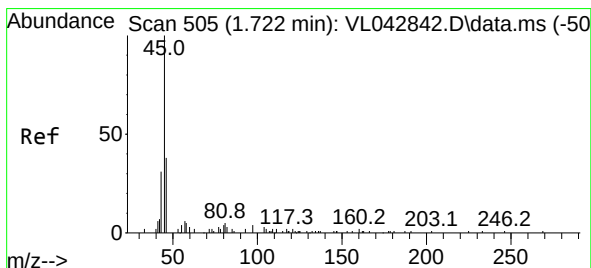
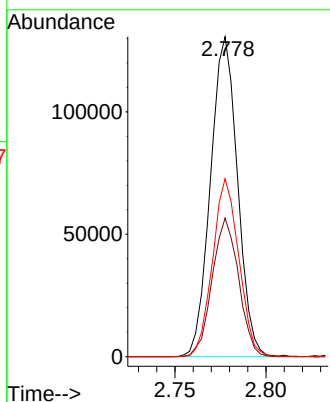
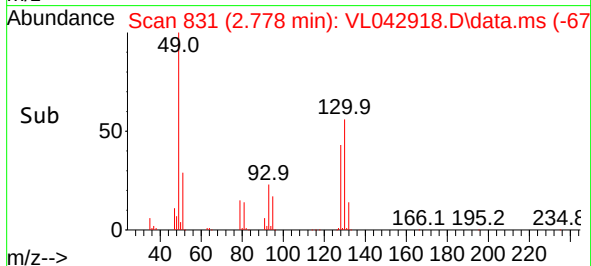
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 49 Resp: 13509
Ion Ratio Lower Upper
49 100
128 42.3 23.7 71.1
130 54.0 30.6 91.6

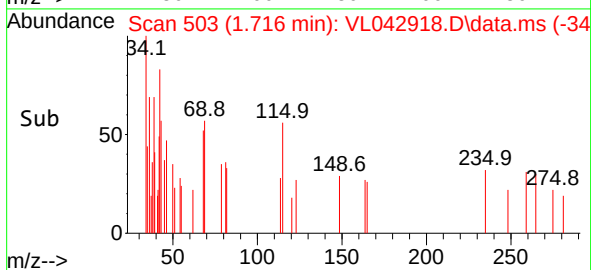
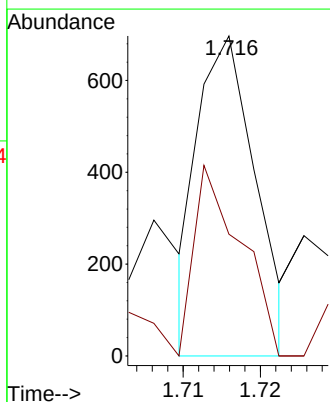
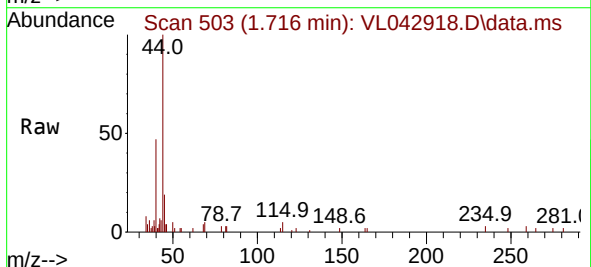
Manual Integrations
APPROVED

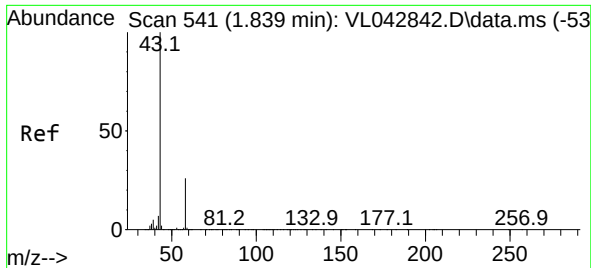
Reviewed By :Semsettin Yesilyurt 09/10/2025
Supervised By :Mahesh Dadoda 09/11/2025



#13
Ethanol
Concen: 0.417 ppbv m
RT: 1.716 min Scan# 503
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

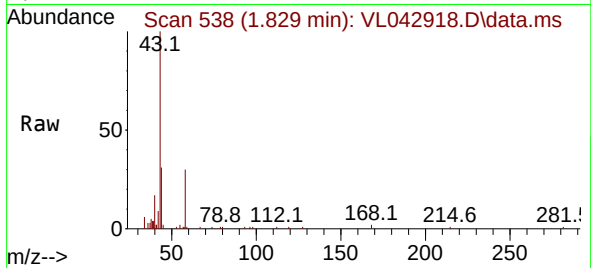
Tgt Ion: 45 Resp: 360
Ion Ratio Lower Upper
45 100
46 0.0 17.5 69.9#





#15
Acetone
Concen: 0.388 ppbv
RT: 1.829 min Scan# 51
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

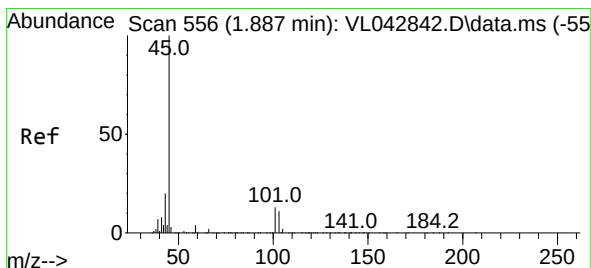
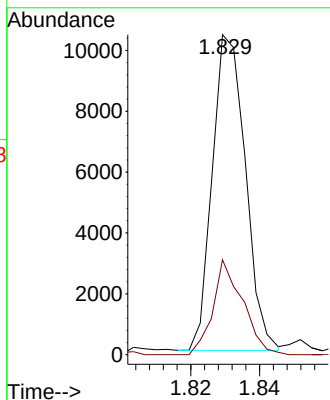
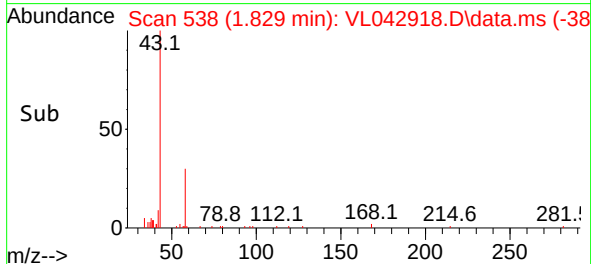
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



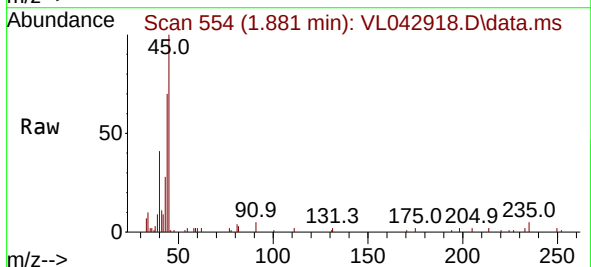
Tgt Ion: 43 Resp: 692
Ion Ratio Lower Upper
43 100
58 27.7 22.4 33.6

Manual Integrations
APPROVED

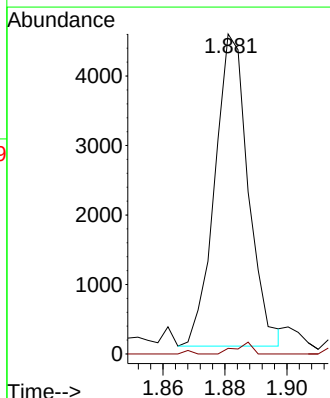
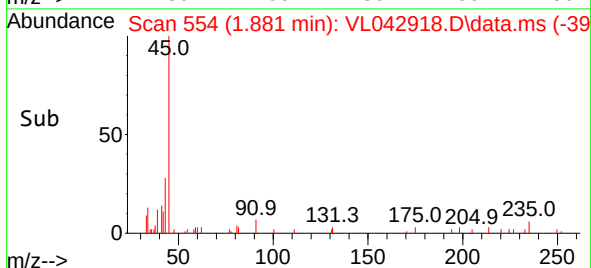
Reviewed By :Semsettin Yesilyurt 09/10/2025
Supervised By :Mahesh Dadoda 09/11/2025

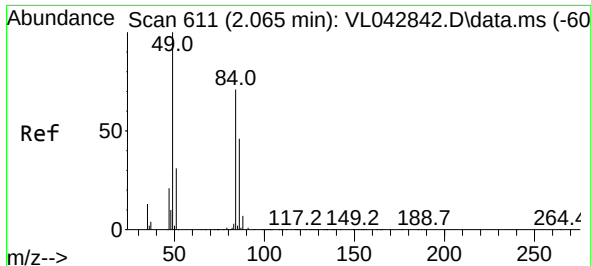


#19
Isopropyl Alcohol
Concen: 0.316 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22



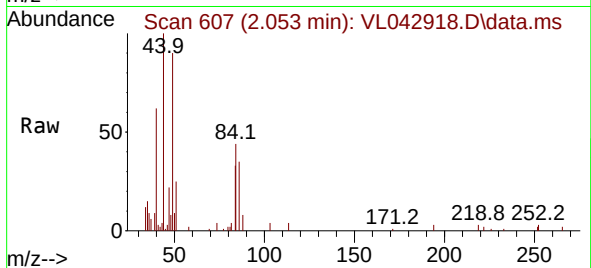
Tgt Ion: 45 Resp: 3376
Ion Ratio Lower Upper
45 100
58 56.9 32.7 49.1#





#20
Methylene Chloride
Concen: 0.224 ppbv
RT: 2.053 min Scan# 607
Delta R.T. -0.003 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

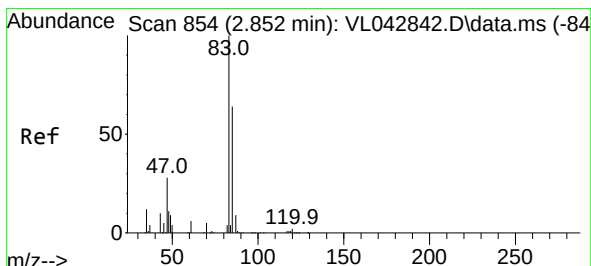
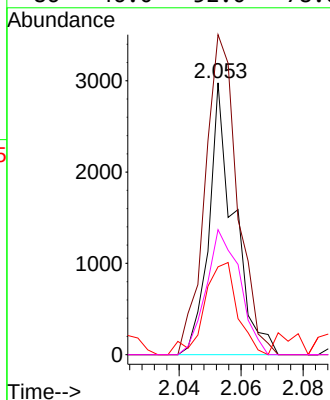
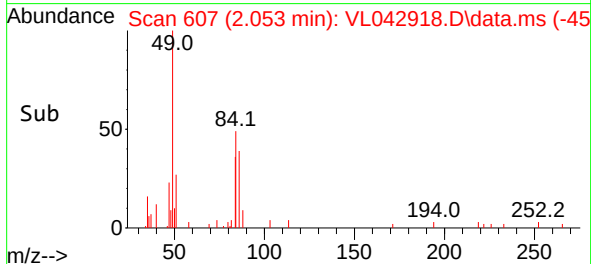
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 84 Resp: 1679
Ion Ratio Lower Upper
84 100
49 117.7 112.3 168.5
51 27.4 36.0 54.0
86 46.0 52.0 78.0#

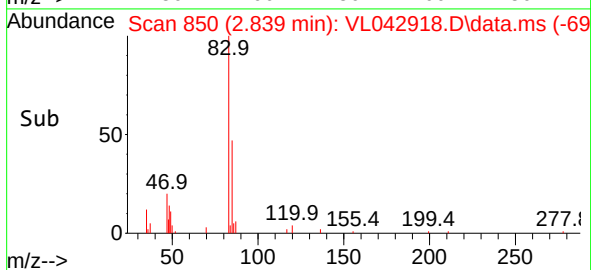
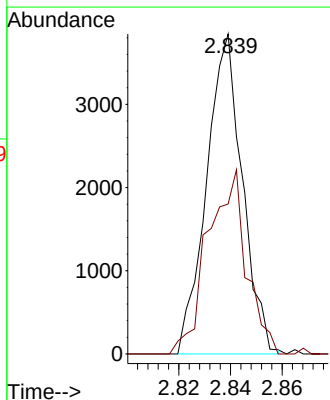
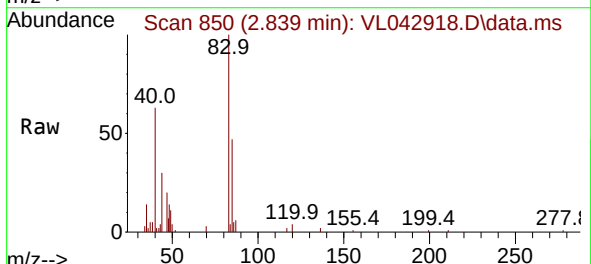
Manual Integrations
APPROVED

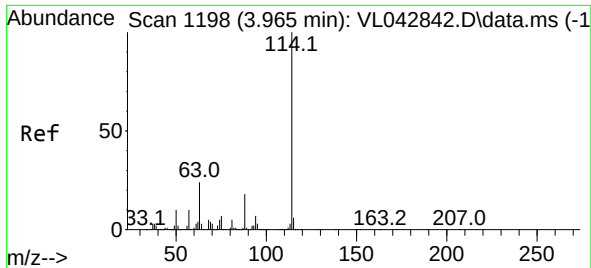
Reviewed By :Semsettin Yesilyurt 09/10/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 0.130 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion: 83 Resp: 3705
Ion Ratio Lower Upper
83 100
85 46.8 51.1 76.7#





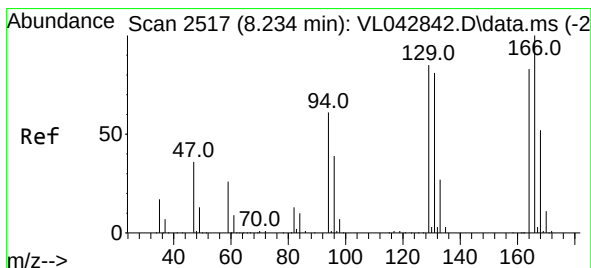
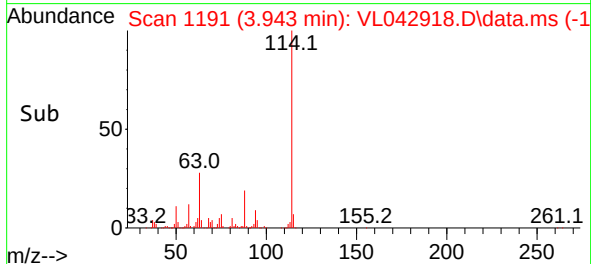
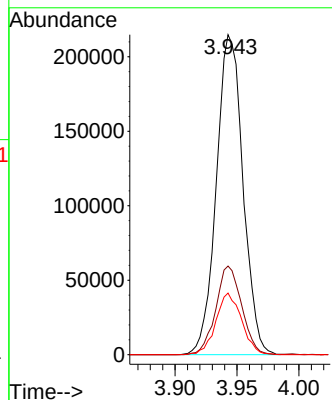
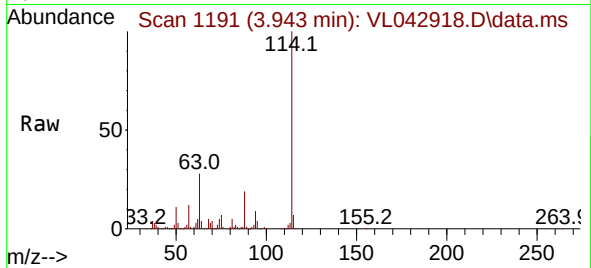
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.943 min Scan# 1191
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion:114 Resp: 321825
Ion Ratio Lower Upper
114 100
63 27.0 19.7 29.5
88 18.6 14.4 21.6

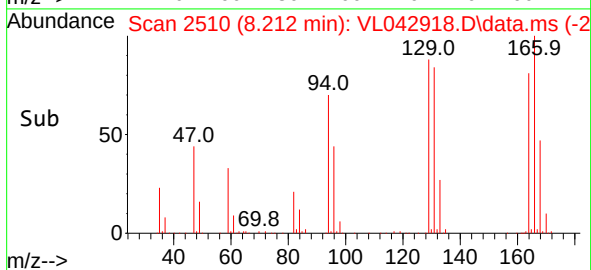
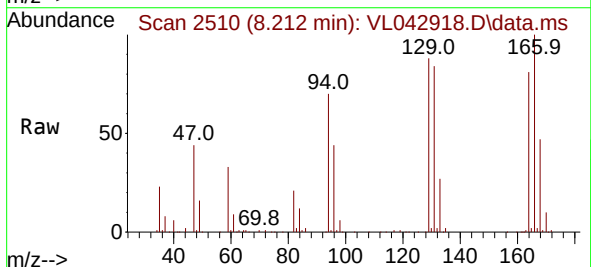
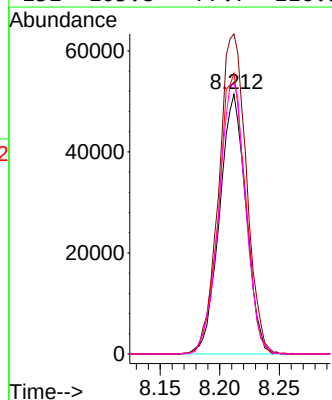
Manual Integrations
APPROVED

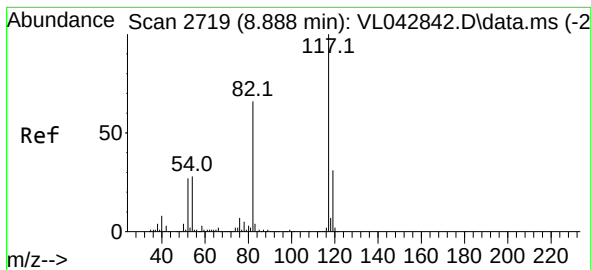
Reviewed By :Semsettin Yesilyurt 09/10/2025
Supervised By :Mahesh Dadoda 09/11/2025



#52
Tetrachloroethene
Concen: 7.135 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion:164 Resp: 79545
Ion Ratio Lower Upper
164 100
166 123.2 96.5 144.7
129 108.1 81.8 122.6
131 103.8 77.7 116.5





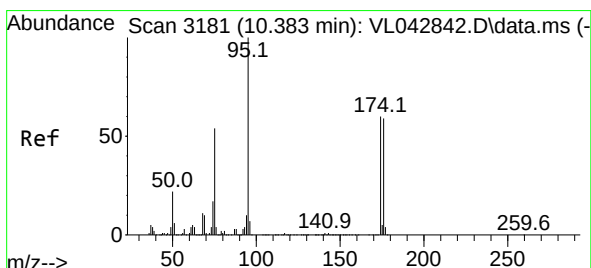
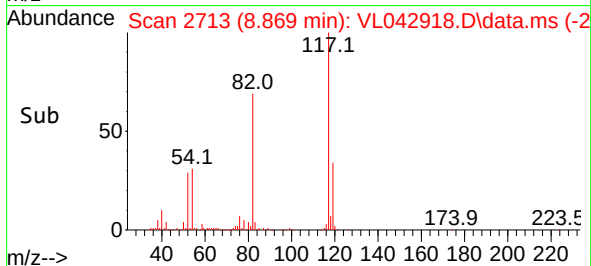
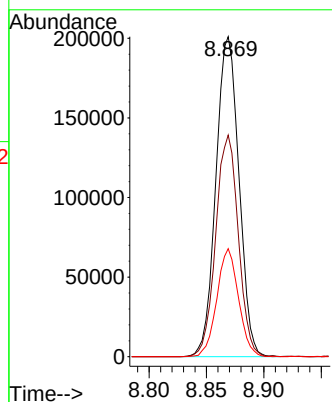
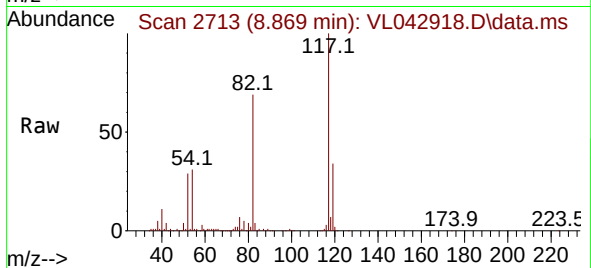
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion:117 Resp: 28096
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.8 25.9 38.9

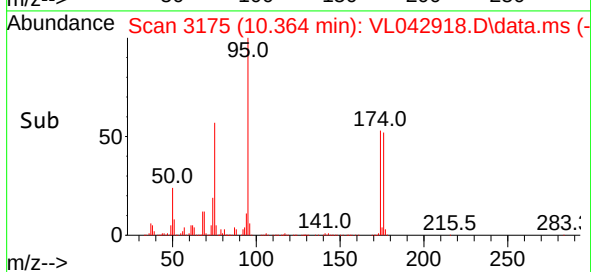
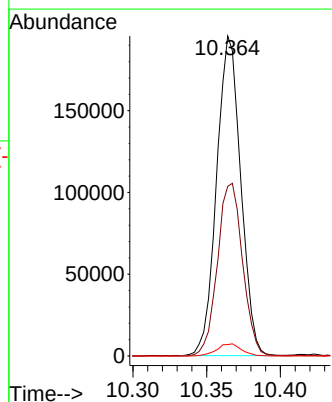
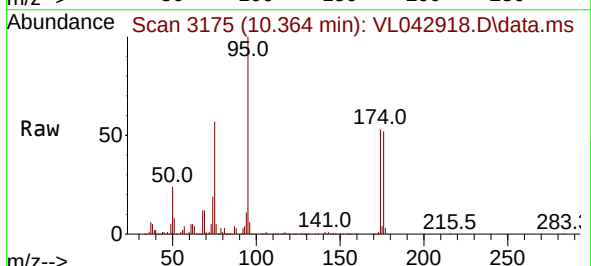
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/10/2025
Supervised By :Mahesh Dadoda 09/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.556 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. 0.000 min
Lab File: VL042918.D
Acq: 09 Sep 2025 08:22

Tgt Ion: 95 Resp: 222436
Ion Ratio Lower Upper
95 100
174 56.3 48.4 72.6
175 3.9 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	SV2	SDG No.:	Q3052
Lab Sample ID:	Q3052-02	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
VL042924.D	4		09/10/25 12:05	VL091025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.10	0.26	U	0.26	0.31	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.48	1.90	U	1.90	7.93	ug/m3
75-34-3	1,1-Dichloroethane	0.52	2.10	U	2.10	8.09	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.40	1.59	U	1.59	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.060	0.33	U	0.33	0.65	ug/m3
107-06-2	1,2-Dichloroethane	0.37	1.50	U	1.50	8.09	ug/m3
79-01-6	Trichloroethene	0.96	5.16		0.54	0.64	ug/m3
127-18-4	Tetrachloroethene	350	2370	E	0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	145000			2.784		
540-36-3	1,4-Difluorobenzene	374000			3.952		
3114-55-4	Chlorobenzene-d5	348000			8.878		

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\VL091025\
 Data File : VL042924.D
 Acq On : 10 Sep 2025 12:05
 Operator : SY/MD
 Sample : Q3052-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:11:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	145473	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	373895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	348255	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	272828	10.446	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.500%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	1.473	51	4797	0.204	ppbv #	89
10) Heptane	4.972	43	131938	4.840	ppbv	100
13) Ethanol	1.719	45	238775	256.588	ppbv	91
15) Acetone	1.832	43	1819220	94.537	ppbv #	86
17) tert-Butyl alcohol	2.039	59	17921	0.785	ppbv #	92
20) Methylene Chloride	2.059	84	12308	1.527	ppbv	88
23) Vinyl Acetate	2.470	43	96668	3.653	ppbv #	49
26) Hexane	2.819	57	265272	12.339	ppbv #	44
27) Carbon Disulfide	2.146	76	15790	0.755	ppbv #	74
29) Chloroform	2.845	83	1113904	36.292	ppbv	98
34) 2-Butanone	2.557	43	68301	2.705	ppbv	99
36) Benzene	3.648	78	14190	0.396	ppbv #	92
38) Trichloroethene	4.541	130	3918m	0.240	ppbv	
40) 1,4-Dioxane	4.596	88	9124m	1.467	ppbv	
41) Tetrahydrofuran	3.062	42	7463m	0.530	ppbv	
42) Bromodichloromethane	4.483	83	68189	2.446	ppbv #	85
50) 4-Methyl-2-Pentanone	5.778	43	6438m	0.189	ppbv	
51) 2-Hexanone	7.432	43	106411m	3.963	ppbv	
52) Tetrachloroethene	8.225	164	1128682	87.140	ppbv	92
53) Toluene	6.927	91	124472	2.924	ppbv	99
58) Ethyl Benzene	9.354	91	44896	0.731	ppbv #	88
59) m/p-Xylene	9.529	91	103451	2.148	ppbv #	100
60) o-Xylene	9.963	91	49722	1.026	ppbv	96
62) Isopropylbenzene	10.539	105	12682	0.179	ppbv	94
72) 4-Ethyltoluene	11.121	105	10749	0.183	ppbv #	42
73) 1,3,5-Trimethylbenzene	11.202	105	15100	0.302	ppbv	89
74) 1,2,4-Trimethylbenzene	11.536	105	30248	0.552	ppbv #	56

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

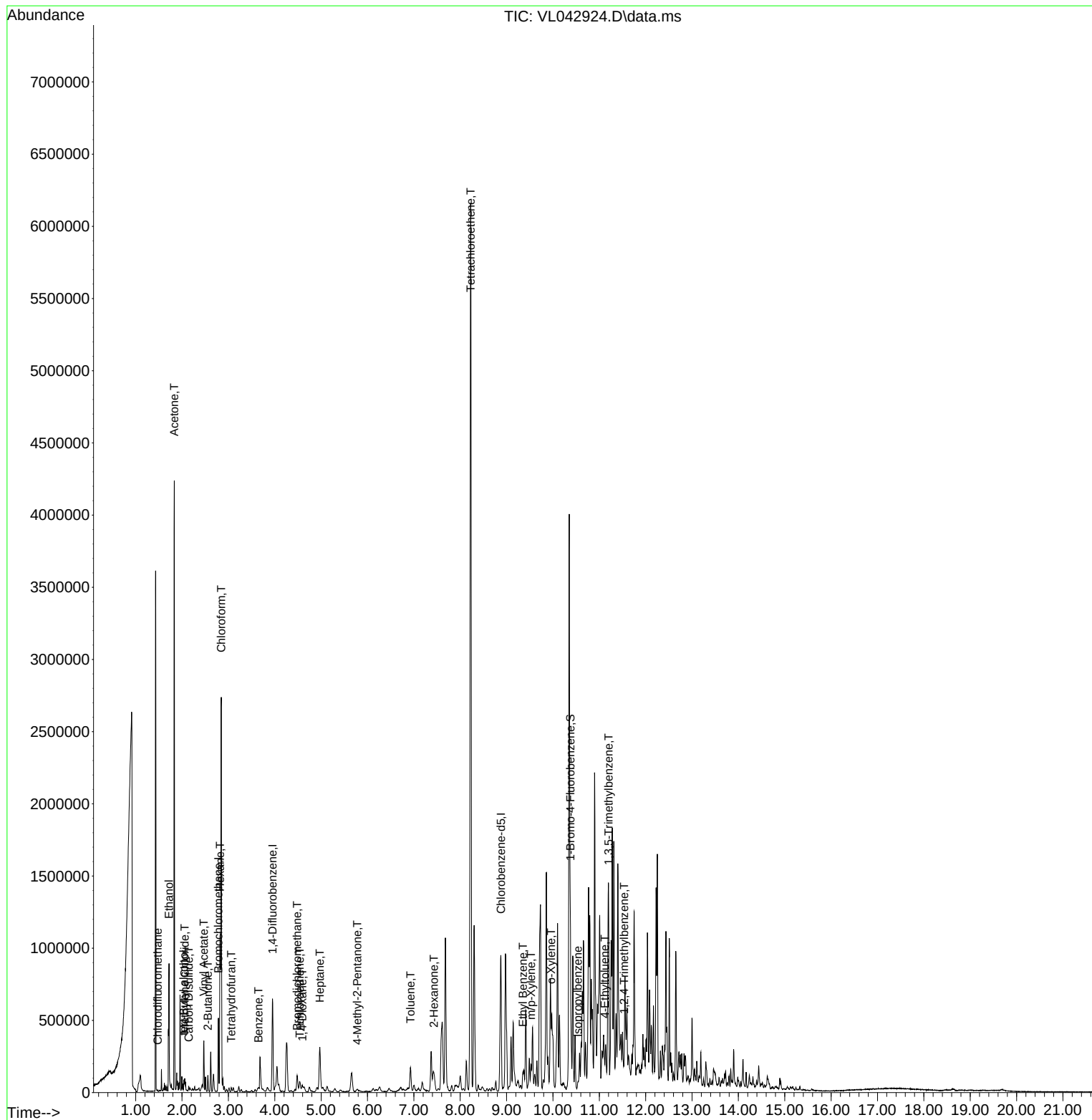
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
Data File : VL042924.D
Acq On : 10 Sep 2025 12:05
Operator : SY/MD
Sample : Q3052-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

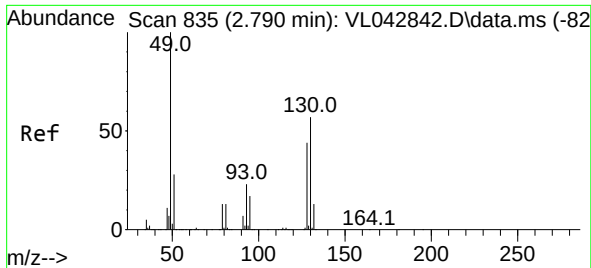
Instrument :
MSVOA_L
ClientSampleId :
SV2

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:11:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration





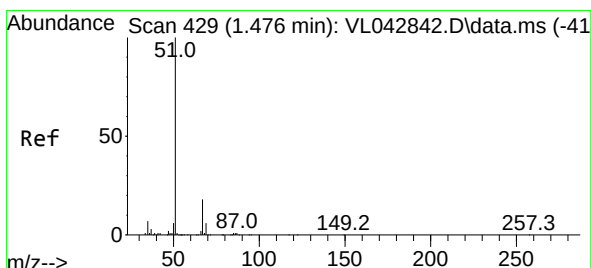
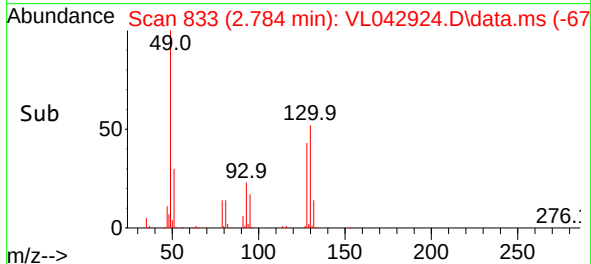
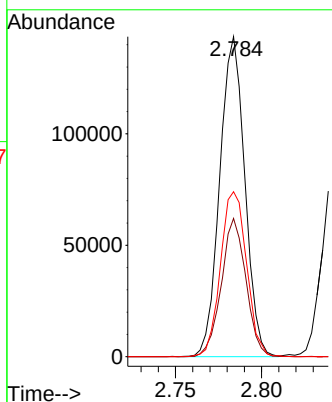
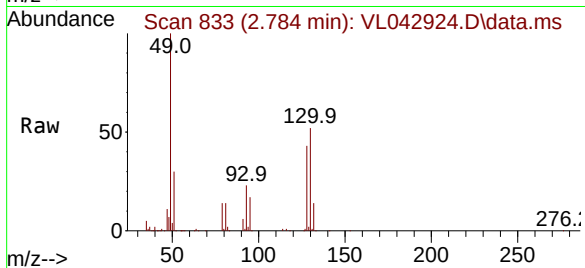
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 49 Resp: 14547
Ion Ratio Lower Upper
49 100
128 42.4 23.7 71.1
130 53.7 30.6 91.6

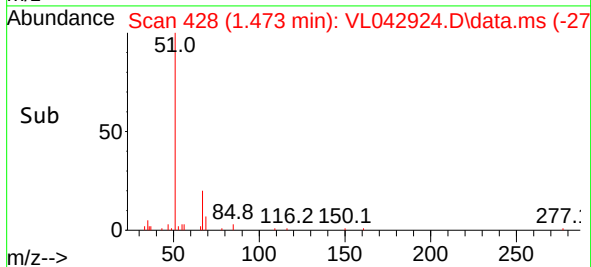
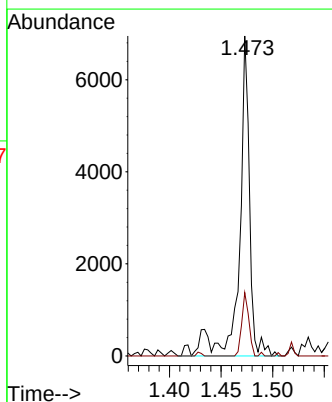
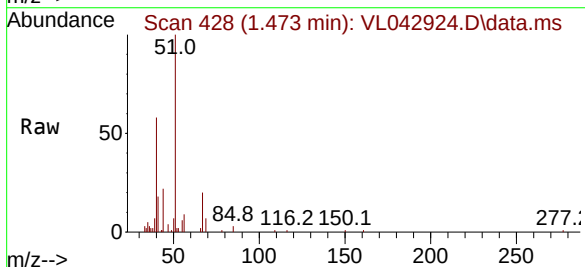
Manual Integrations
APPROVED

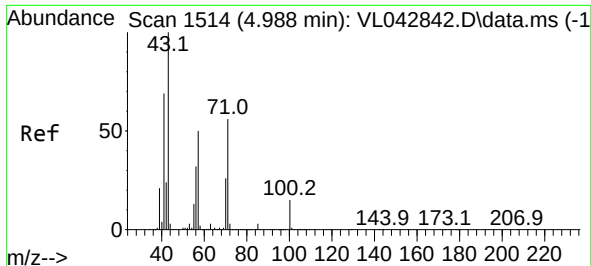
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#3
Chlorodifluoromethane
Concen: 0.204 ppbv
RT: 1.473 min Scan# 428
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

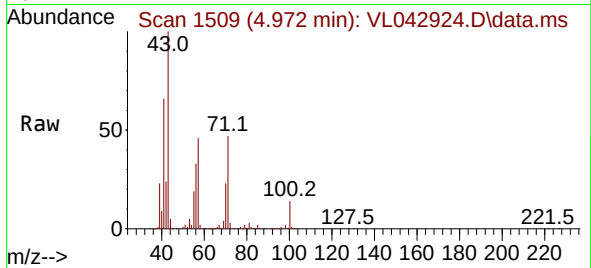
Tgt Ion: 51 Resp: 4797
Ion Ratio Lower Upper
51 100
67 13.8 14.9 22.3#





#10
 Heptane
 Concen: 4.840 ppbv
 RT: 4.972 min Scan# 11
 Delta R.T. 0.013 min
 Lab File: VL042924.D
 Acq: 10 Sep 2025 12:05

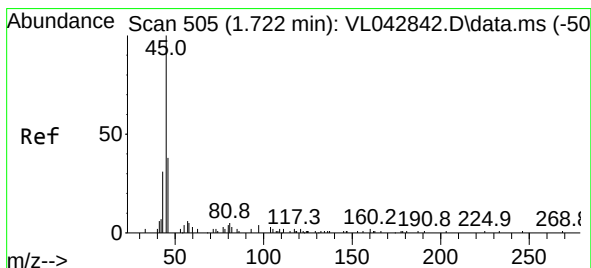
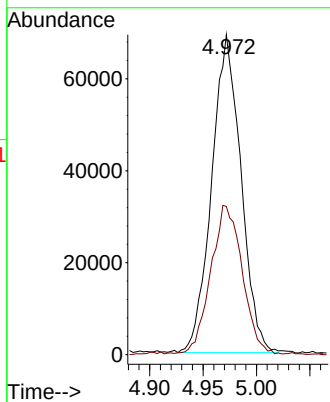
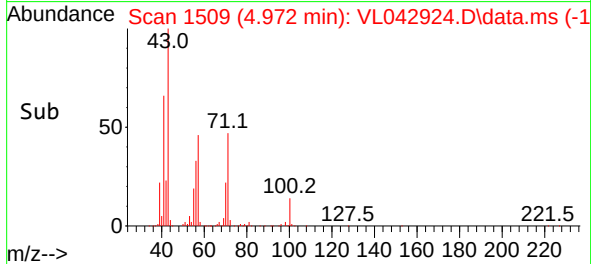
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



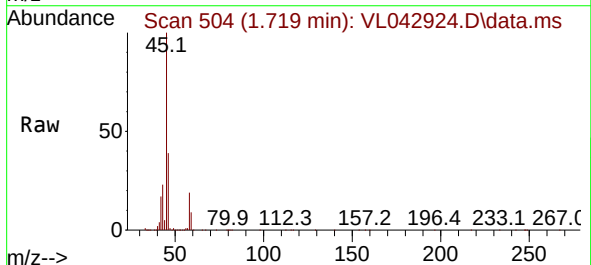
Tgt Ion: 43 Resp: 131938
 Ion Ratio Lower Upper
 43 100
 57 51.9 41.4 62.0

Manual Integrations
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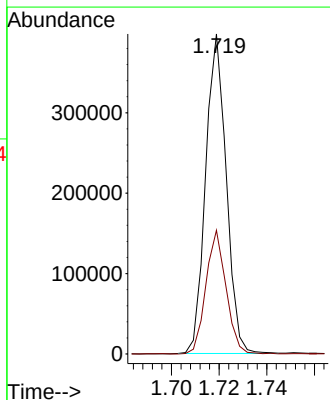
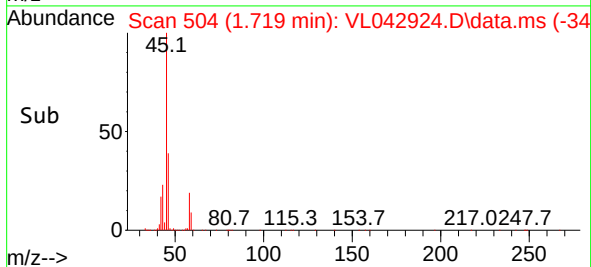
Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025

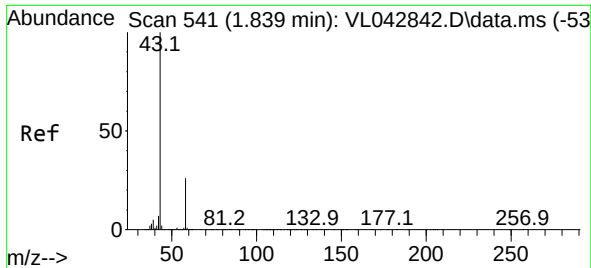


#13
 Ethanol
 Concen: 256.588 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042924.D
 Acq: 10 Sep 2025 12:05



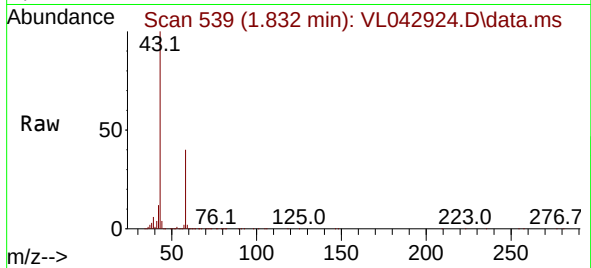
Tgt Ion: 45 Resp: 238775
 Ion Ratio Lower Upper
 45 100
 46 38.2 17.5 69.9





#15
Acetone
Concen: 94.537 ppbv
RT: 1.832 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

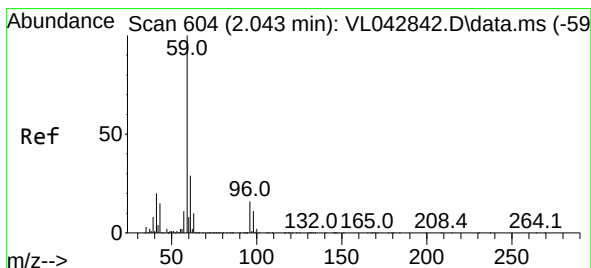
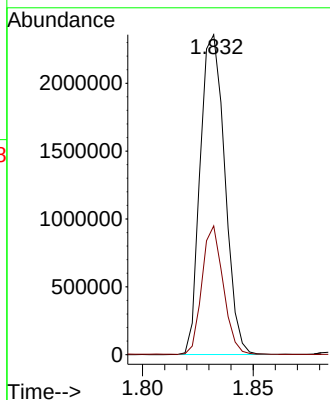
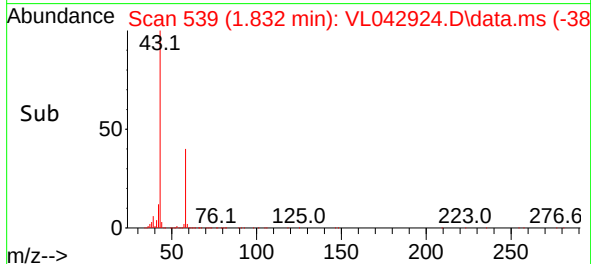
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 1819220
Ion Ratio Lower Upper
43 100
58 35.2 22.4 33.6

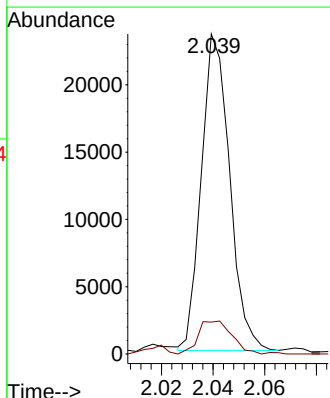
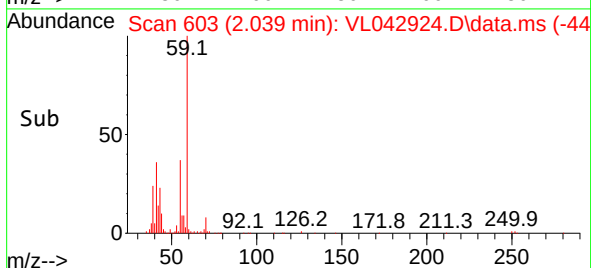
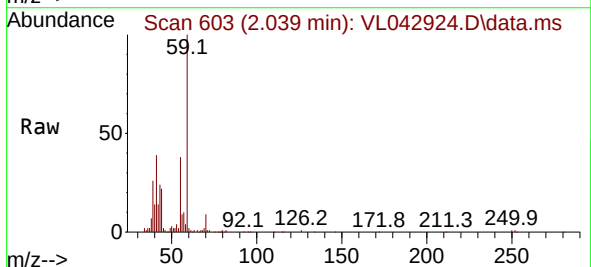
Manual Integrations
APPROVED

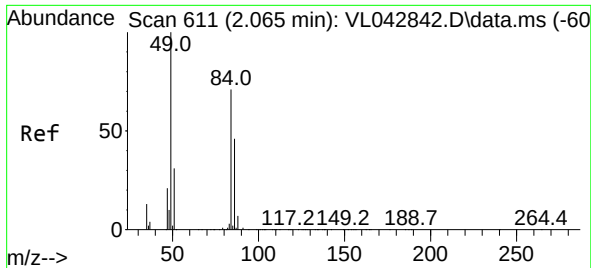
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#17
tert-Butyl alcohol
Concen: 0.785 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.006 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

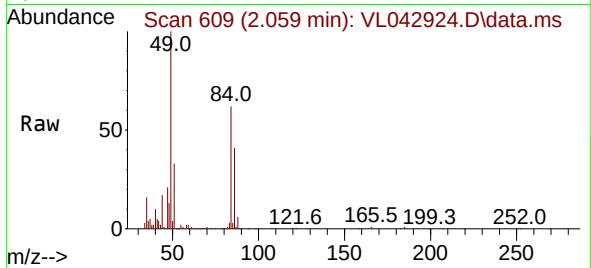
Tgt Ion: 59 Resp: 17921
Ion Ratio Lower Upper
59 100
57 14.4 9.0 13.4





#20
Methylene Chloride
Concen: 1.527 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

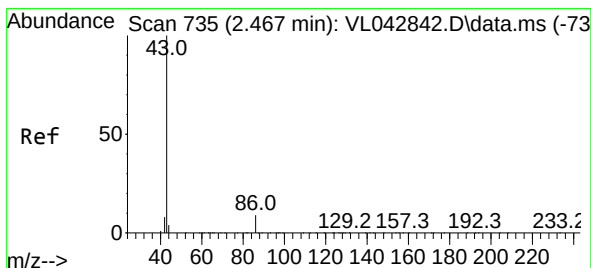
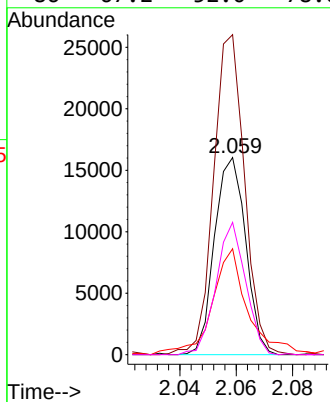
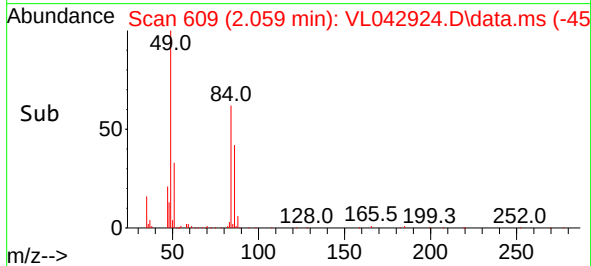
Instrument :
MSVOA_L
ClientSampleId :
SV2



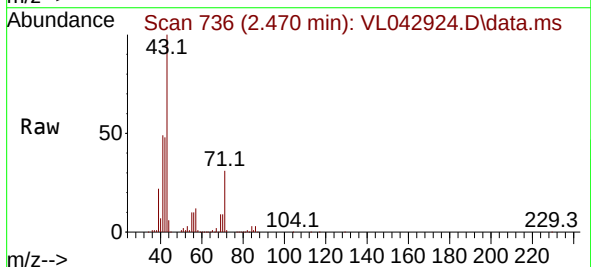
Tgt Ion: 84 Resp: 12308
Ion Ratio Lower Upper
84 100
49 160.9 112.3 168.5
51 50.6 36.0 54.0
86 67.2 52.0 78.0

Manual Integrations
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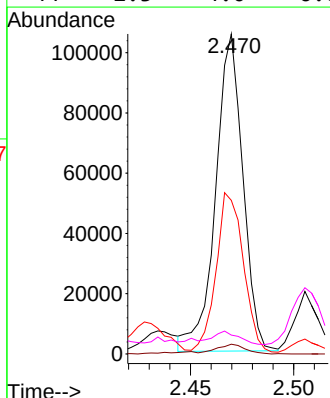
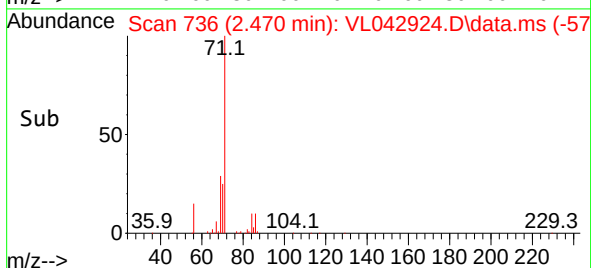
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025

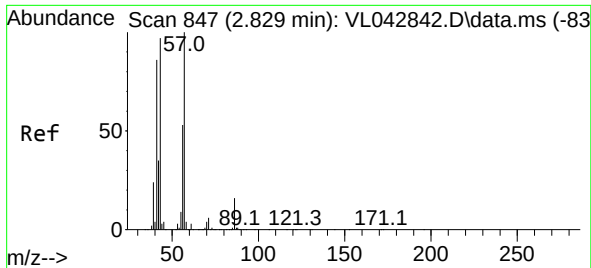


#23
Vinyl Acetate
Concen: 3.653 ppbv
RT: 2.470 min Scan# 736
Delta R.T. 0.016 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05



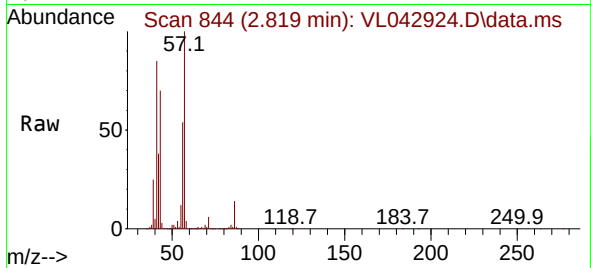
Tgt Ion: 43 Resp: 96668
Ion Ratio Lower Upper
43 100
86 3.0 6.6 9.8#
42 48.2 7.0 10.6#
44 2.3 4.0 6.0#





#26
Hexane
Concen: 12.339 ppbv
RT: 2.819 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

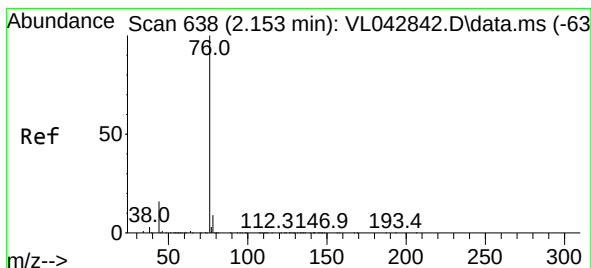
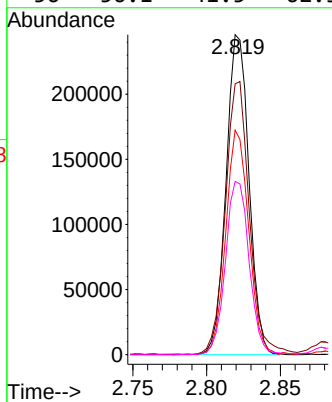
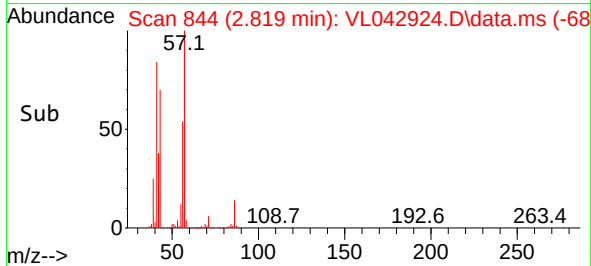
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 265272
Ion Ratio Lower Upper
57 100
41 90.2 68.6 103.0
43 70.3 168.5 252.7
56 56.1 41.5 62.3

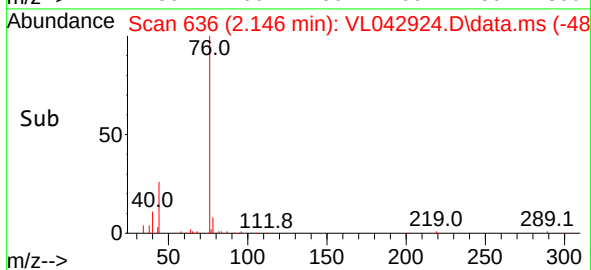
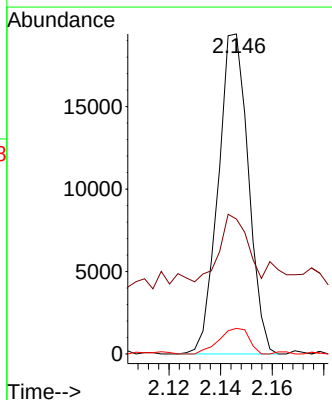
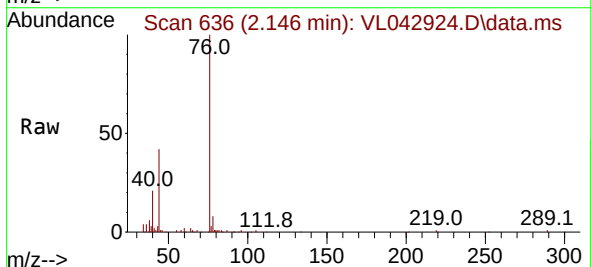
Manual Integrations
APPROVED

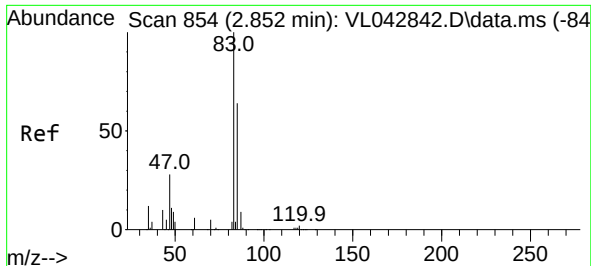
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#27
Carbon Disulfide
Concen: 0.755 ppbv
RT: 2.146 min Scan# 636
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Tgt Ion: 76 Resp: 15790
Ion Ratio Lower Upper
76 100
44 36.8 15.9 23.9#
78 9.2 9.5 14.3#





#29

Chloroform

Concen: 36.292 ppbv

RT: 2.845 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042924.D

Acq: 10 Sep 2025 12:05

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 83 Resp: 1113904

Ion Ratio Lower Upper

83 100

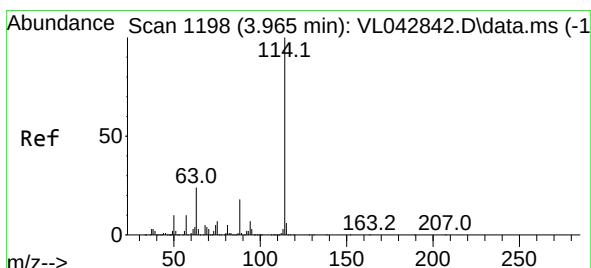
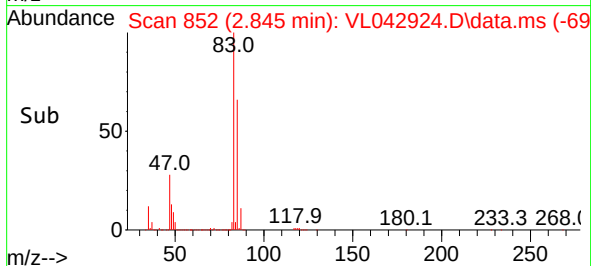
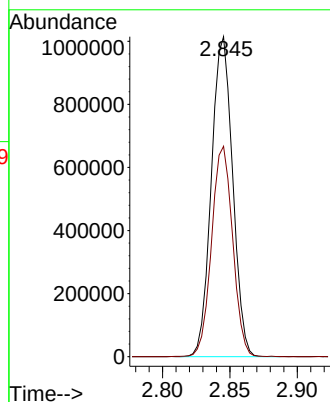
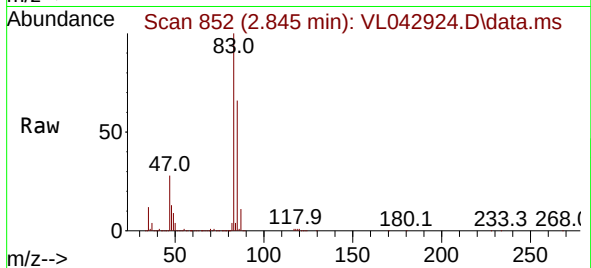
85 65.7 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025

Supervised By :Mahesh Dadoda 09/11/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042924.D

Acq: 10 Sep 2025 12:05

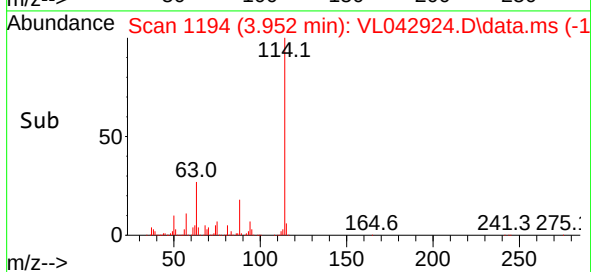
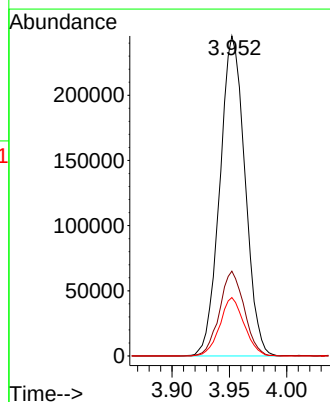
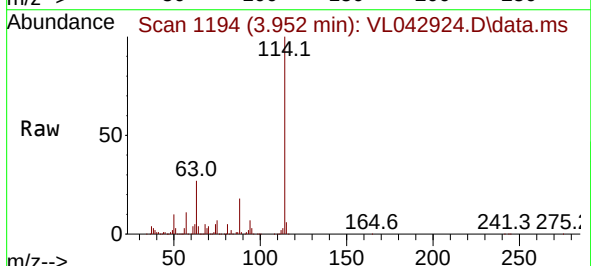
Tgt Ion:114 Resp: 373895

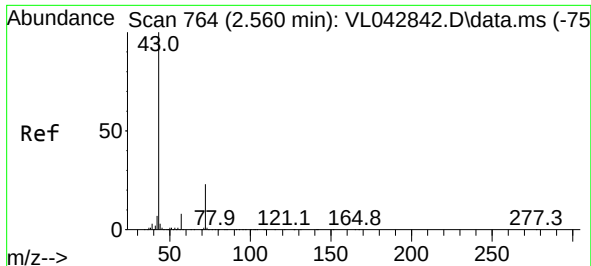
Ion Ratio Lower Upper

114 100

63 26.1 19.7 29.5

88 17.7 14.4 21.6





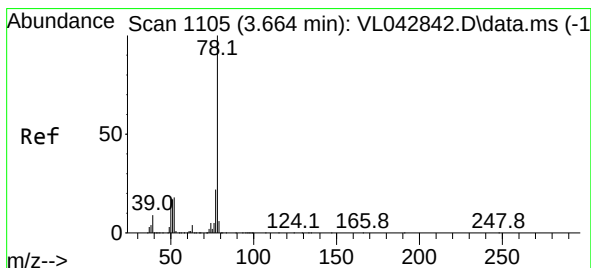
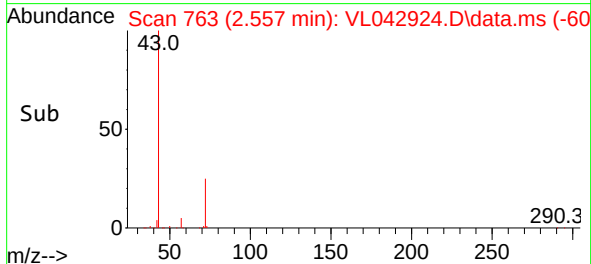
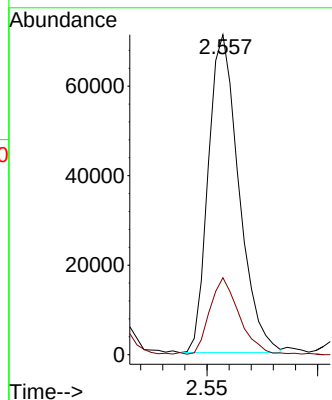
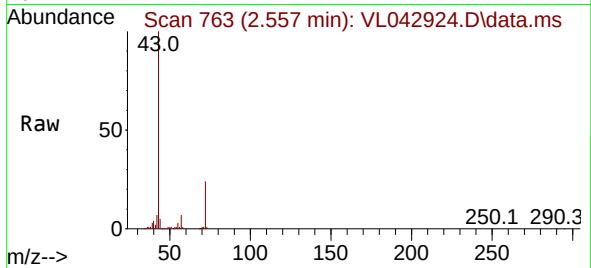
#34
2-Butanone
Concen: 2.705 ppbv
RT: 2.557 min Scan# 710
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 6830
Ion Ratio Lower Upper
43 100
72 23.9 18.6 28.0

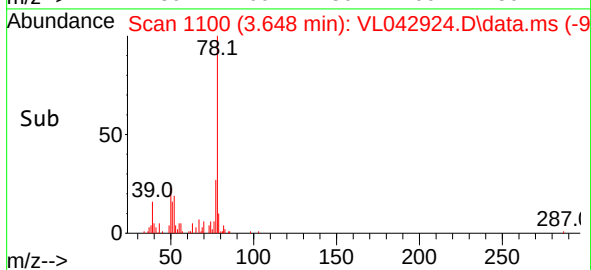
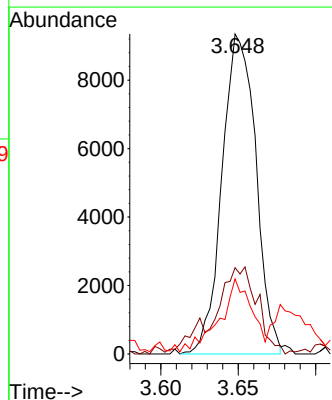
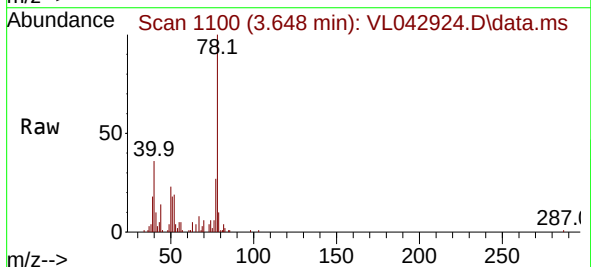
Manual Integrations
APPROVED

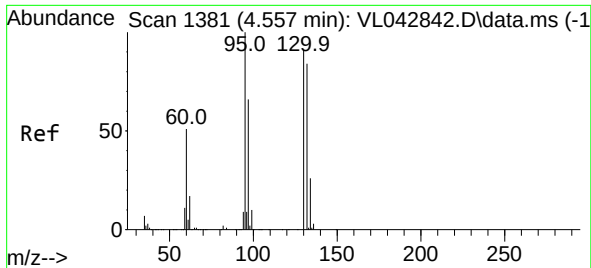
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#36
Benzene
Concen: 0.396 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

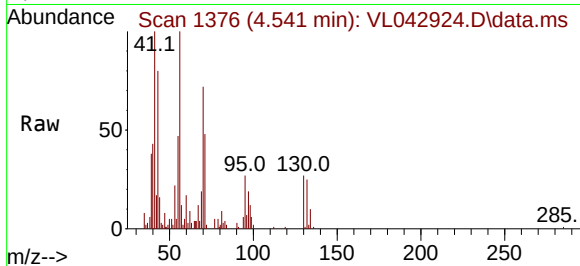
Tgt Ion: 78 Resp: 14190
Ion Ratio Lower Upper
78 100
77 24.2 17.7 26.5
50 22.8 13.9 20.9#





#38
 Trichloroethene
 Concen: 0.240 ppbv m
 RT: 4.541 min Scan# 1376
 Delta R.T. 0.010 min
 Lab File: VL042924.D
 Acq: 10 Sep 2025 12:05

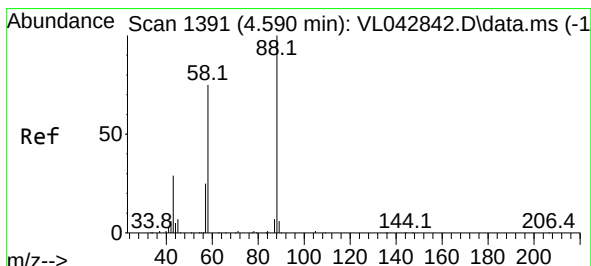
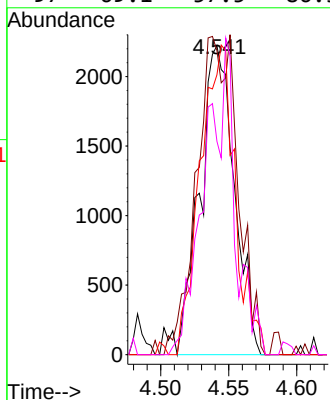
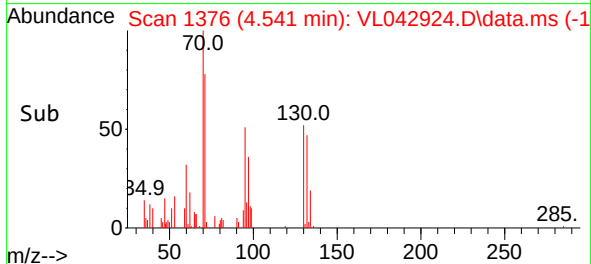
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.4	87.6	131.4
132	90.5	73.8	110.8
97	69.1	57.5	86.3

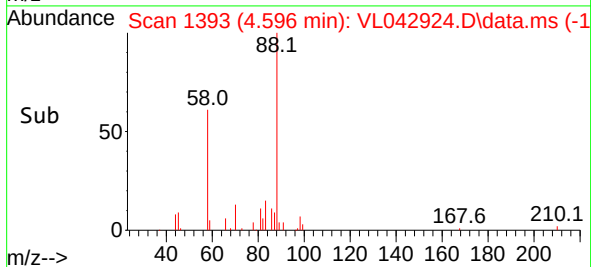
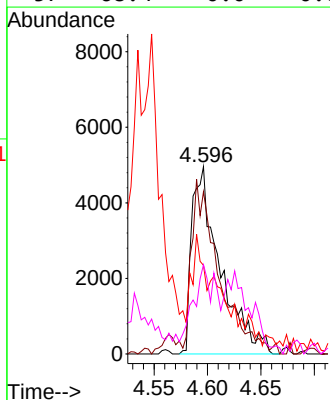
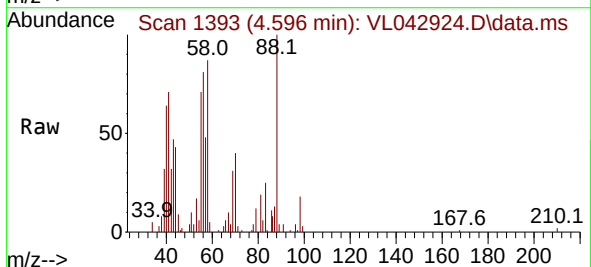
Manual Integrations
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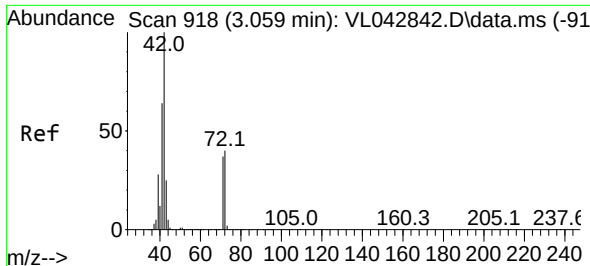
Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#40
 1,4-Dioxane
 Concen: 1.467 ppbv m
 RT: 4.596 min Scan# 1393
 Delta R.T. 0.035 min
 Lab File: VL042924.D
 Acq: 10 Sep 2025 12:05

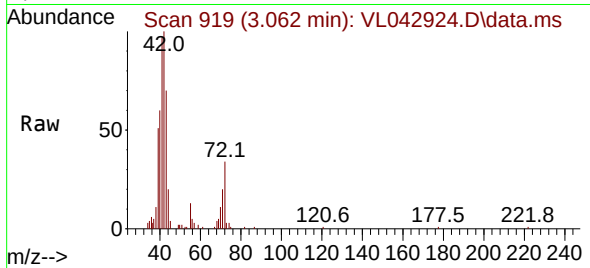
Tgt Ion	Ratio	Lower	Upper
88	100		
58	98.2	53.8	80.6#
43	69.7	22.8	34.2#
57	68.4	0.0	0.0#





#41
Tetrahydrofuran
Concen: 0.530 ppbv m
RT: 3.062 min Scan# 918
Delta R.T. 0.019 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

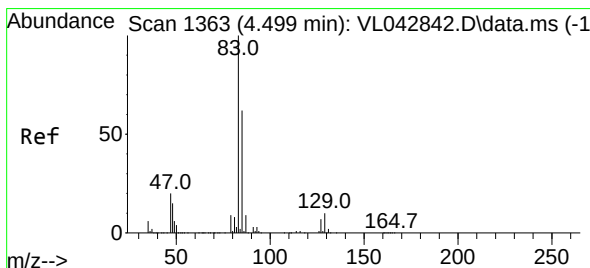
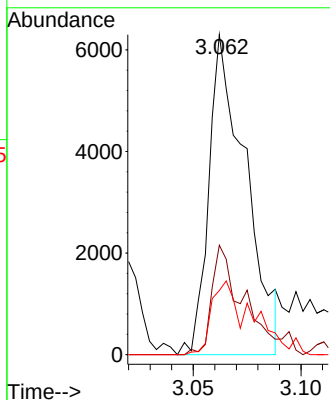
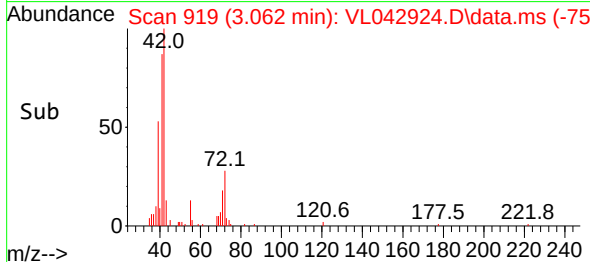
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 42 Resp: 746
Ion Ratio Lower Upper
42 100
72 0.0 32.6 48.8
71 0.0 30.0 45.0

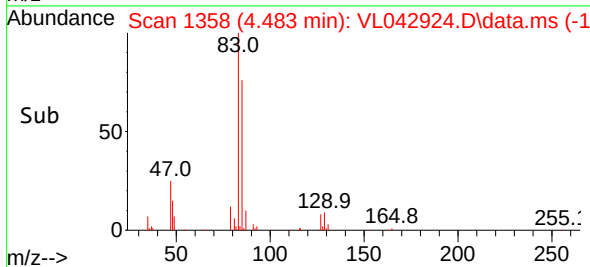
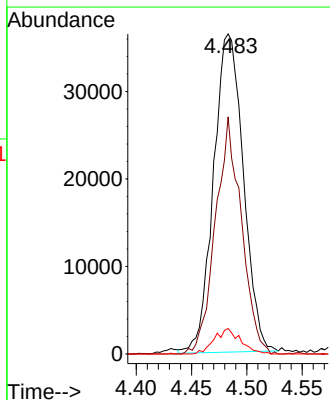
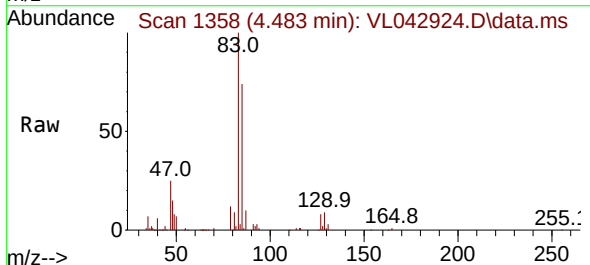
Manual Integrations
APPROVED

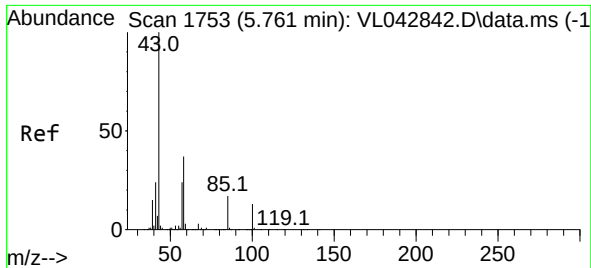
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#42
Bromodichloromethane
Concen: 2.446 ppbv
RT: 4.483 min Scan# 1358
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

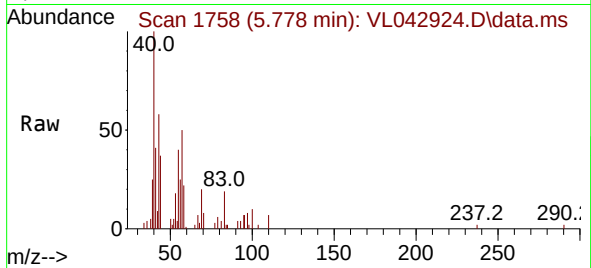
Tgt Ion: 83 Resp: 68189
Ion Ratio Lower Upper
83 100
85 74.8 49.8 74.8
127 8.0 5.8 8.6





#50
4-Methyl-2-Pentanone
Concen: 0.189 ppbv m
RT: 5.778 min Scan# 1758
Delta R.T. 0.048 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

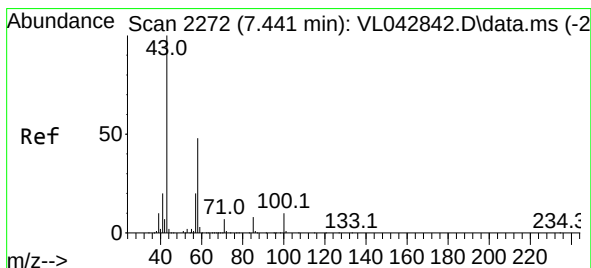
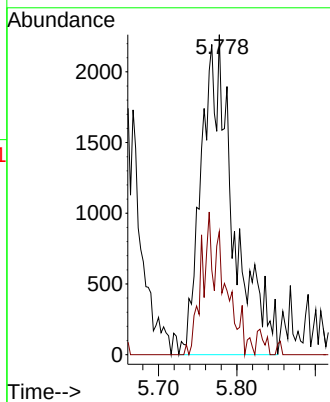
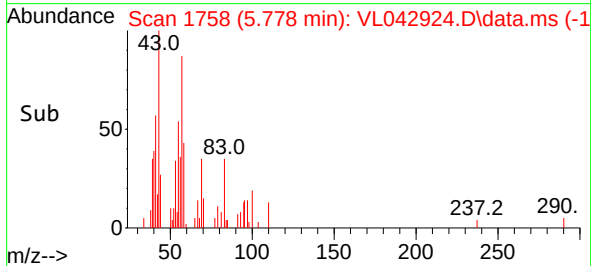
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 6438
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8

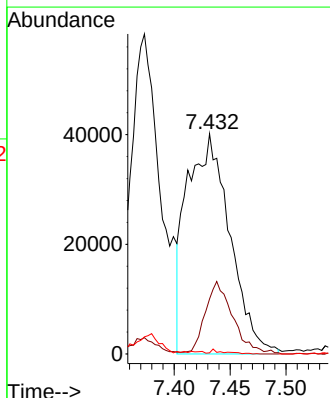
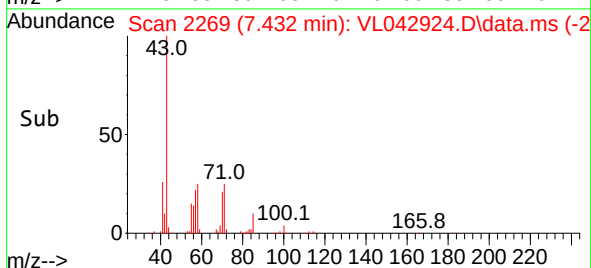
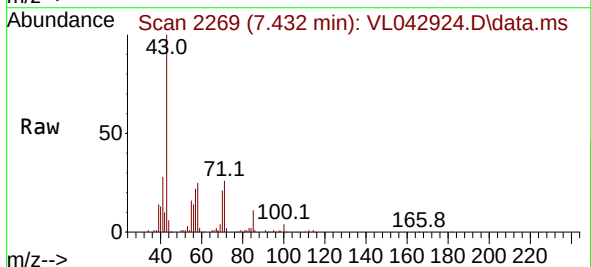
Manual Integrations
APPROVED

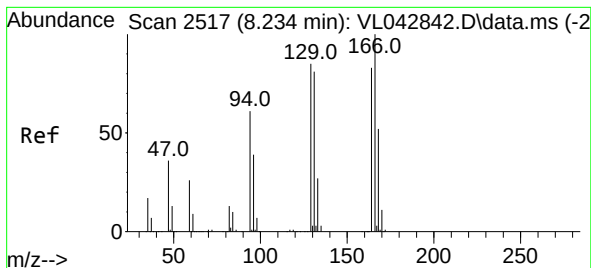
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#51
2-Hexanone
Concen: 3.963 ppbv m
RT: 7.432 min Scan# 2269
Delta R.T. 0.013 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Tgt Ion: 43 Resp: 106411
Ion Ratio Lower Upper
43 100
58 21.5 41.0 61.6#
98 0.0 0.1 0.1#





#52

Tetrachloroethene

Concen: 87.140 ppbv

RT: 8.225 min Scan# 2113

Delta R.T. 0.013 min

Lab File: VL042924.D

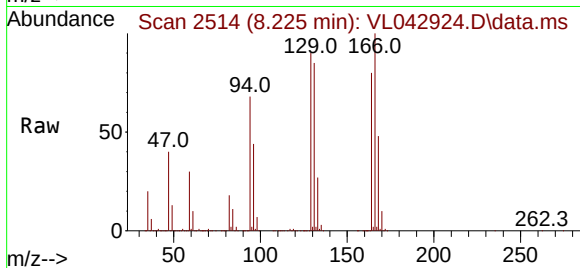
Acq: 10 Sep 2025 12:05

Instrument :

MSVOA_L

ClientSampleId :

SV2



Tgt Ion:164 Resp: 112868

Ion Ratio Lower Upper

164 100

166 125.6 96.5 144.7

129 112.6 81.8 122.6

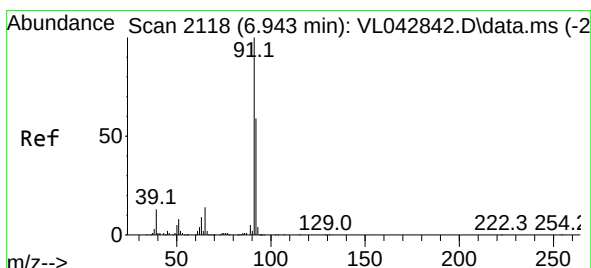
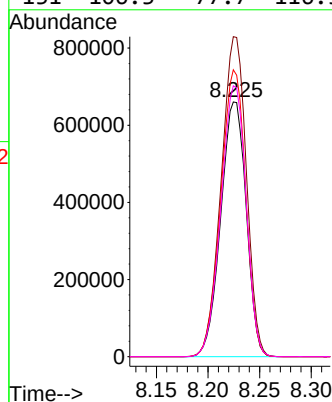
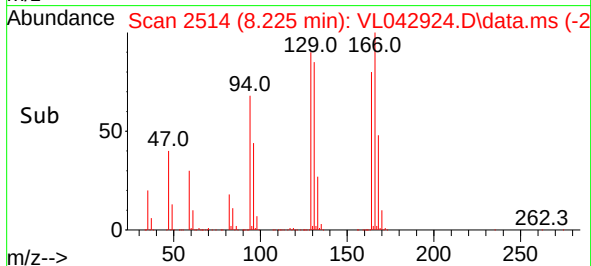
131 106.3 77.7 116.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/11/2025

Supervised By :Mahesh Dadoda 09/11/2025



#53

Toluene

Concen: 2.924 ppbv

RT: 6.927 min Scan# 2113

Delta R.T. 0.013 min

Lab File: VL042924.D

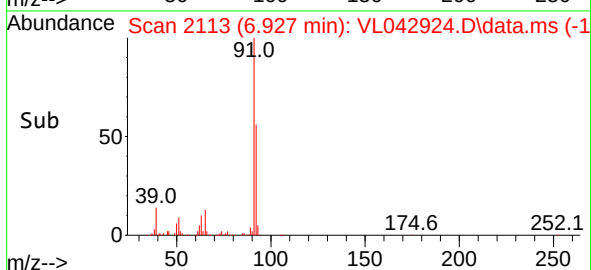
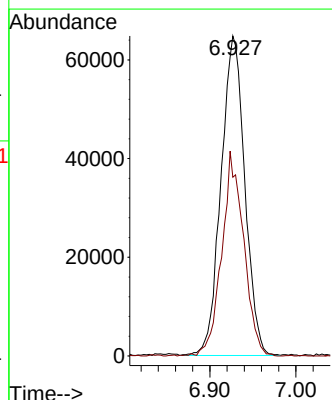
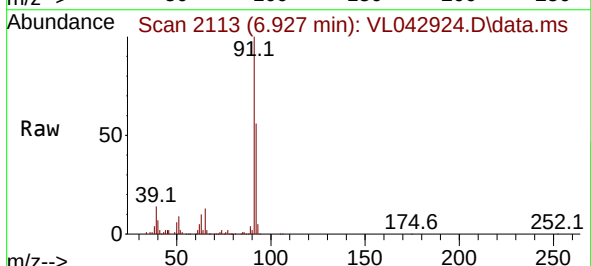
Acq: 10 Sep 2025 12:05

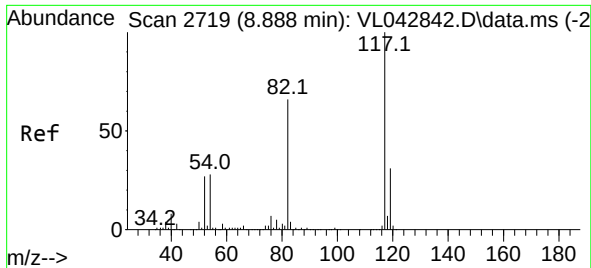
Tgt Ion: 91 Resp: 124472

Ion Ratio Lower Upper

91 100

92 59.2 47.8 71.6





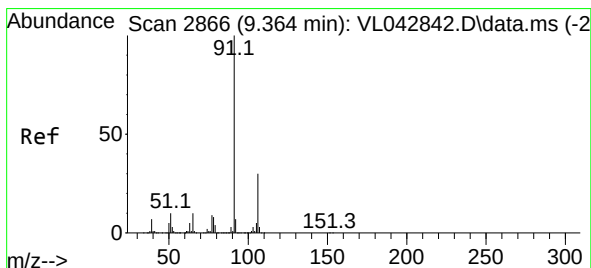
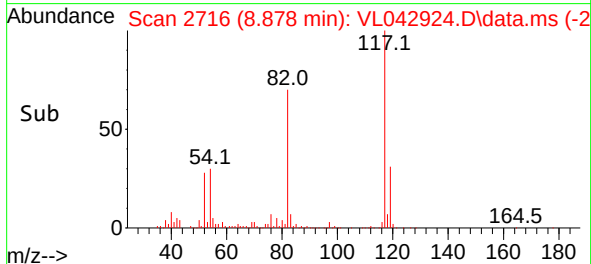
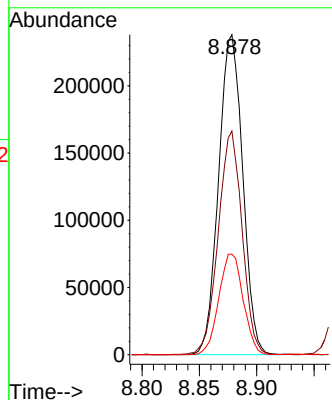
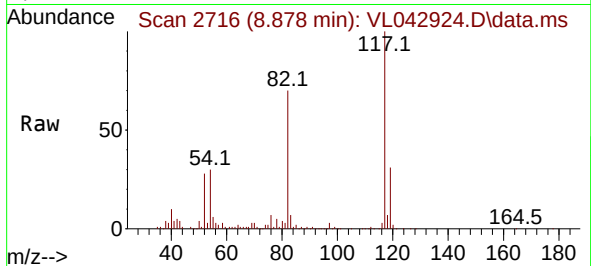
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2719
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 117 Resp: 34825
Ion Ratio Lower Upper
117 100
82 69.2 54.6 81.8
119 31.8 25.9 38.9

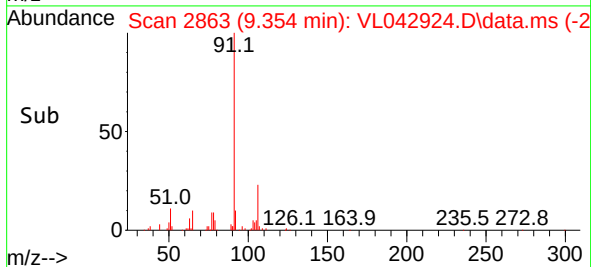
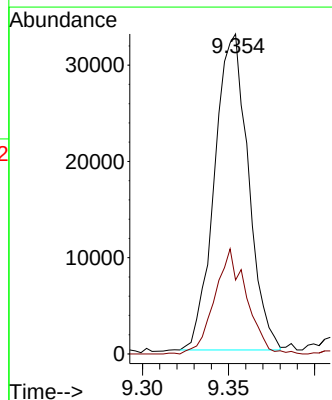
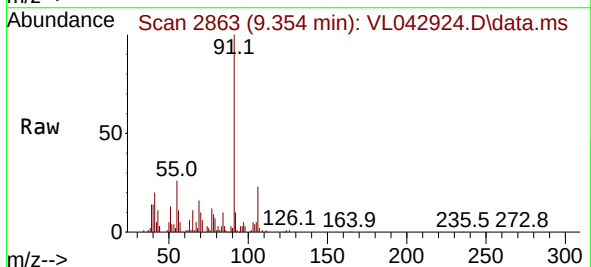
Manual Integrations
APPROVED

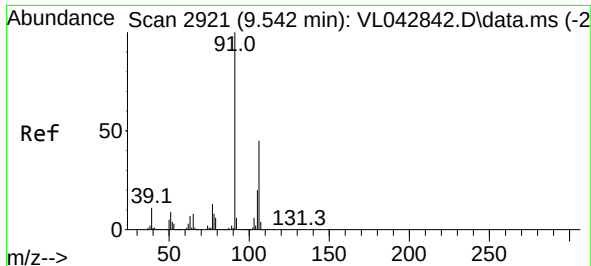
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#58
Ethyl Benzene
Concen: 0.731 ppbv
RT: 9.354 min Scan# 2863
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Tgt Ion: 91 Resp: 44896
Ion Ratio Lower Upper
91 100
106 23.4 23.9 35.9#





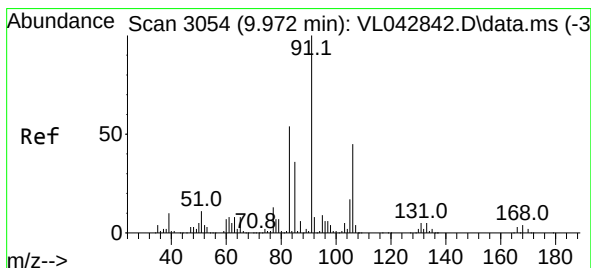
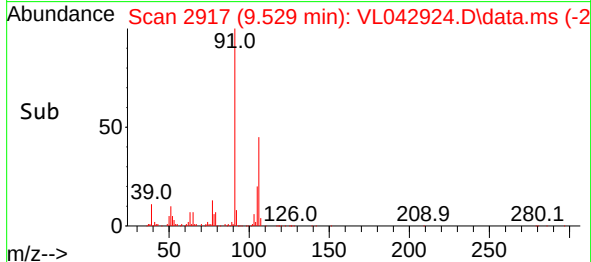
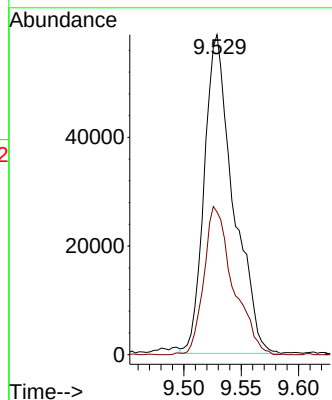
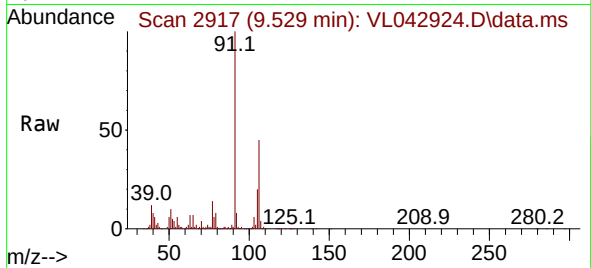
#59
m/p-Xylene
Concen: 2.148 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 10345
Ion Ratio Lower Upper
91 100
106 46.8 0.0 0.0

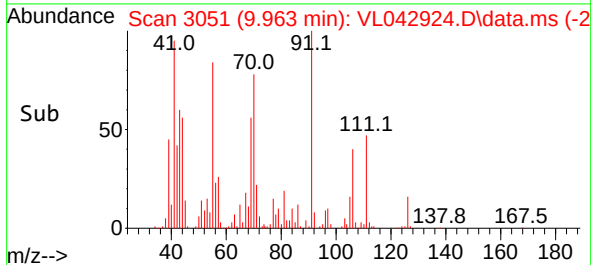
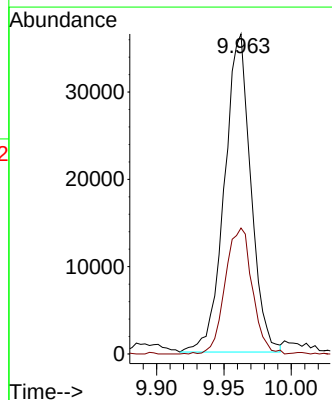
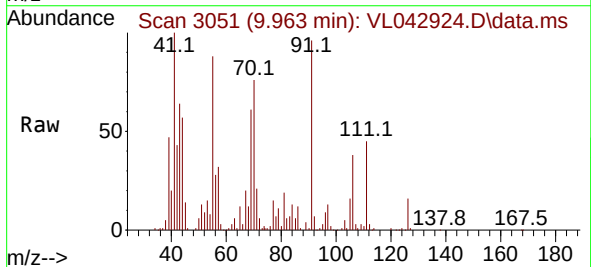
Manual Integrations
APPROVED

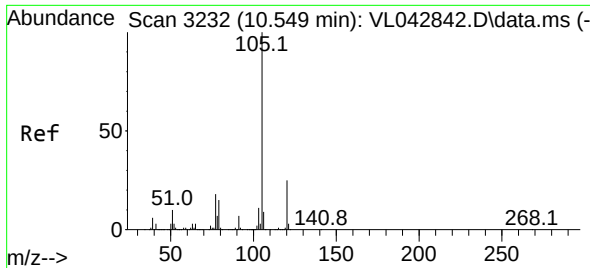
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#60
o-Xylene
Concen: 1.026 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Tgt Ion: 91 Resp: 49722
Ion Ratio Lower Upper
91 100
106 40.8 21.8 65.4





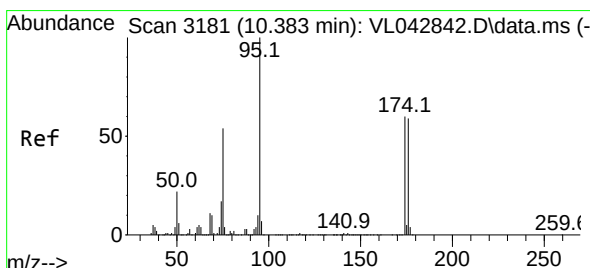
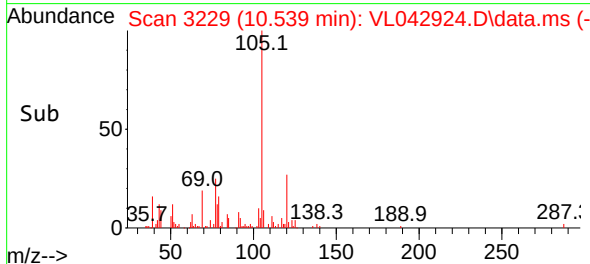
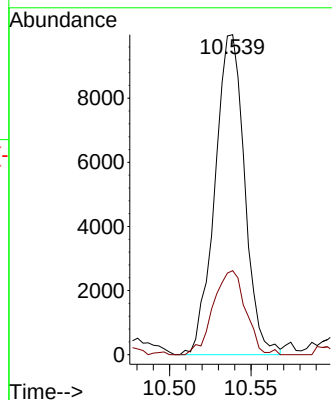
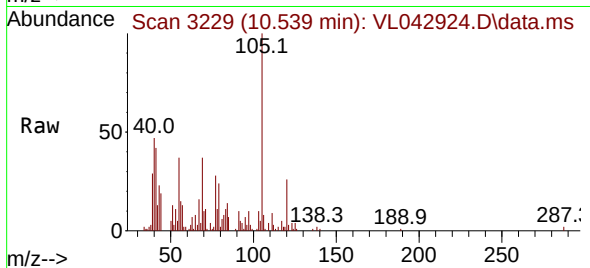
#62
Isopropylbenzene
Concen: 0.179 ppbv
RT: 10.539 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion:105 Resp: 1268
Ion Ratio Lower Upper
105 100
120 28.8 20.6 30.8

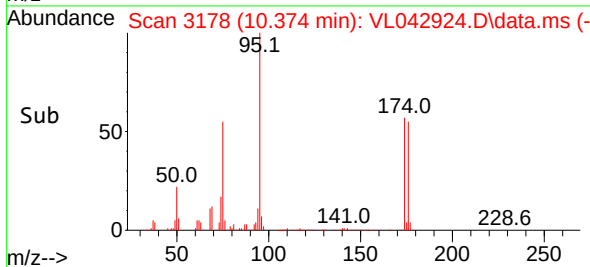
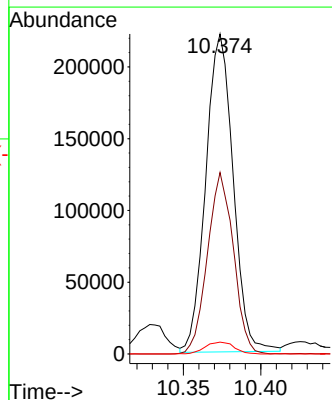
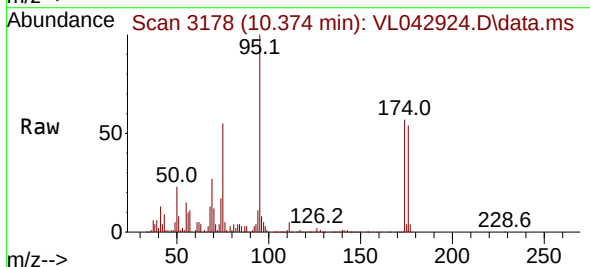
Manual Integrations
APPROVED

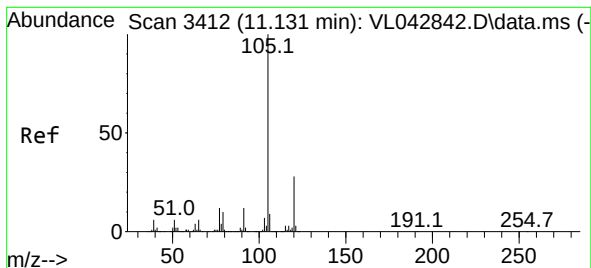
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.446 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Tgt Ion: 95 Resp: 272828
Ion Ratio Lower Upper
95 100
174 54.0 48.4 72.6
175 4.0 3.8 5.8





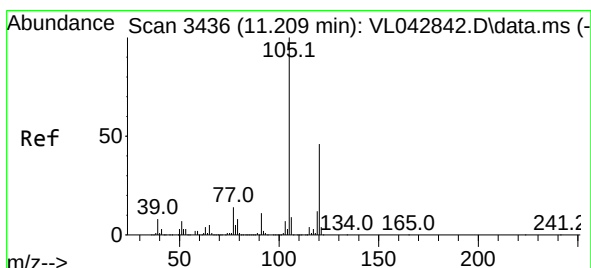
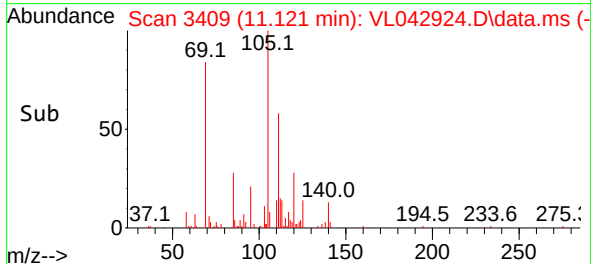
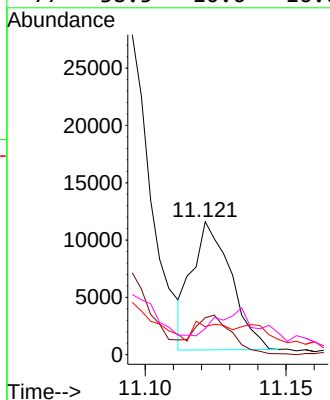
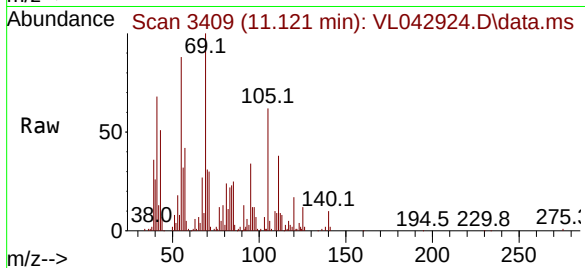
#72
4-Ethyltoluene
Concen: 0.183 ppbv
RT: 11.121 min Scan# 3412
Delta R.T. 0.003 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.2
91	35.2	9.8	14.6
77	38.5	10.6	16.0

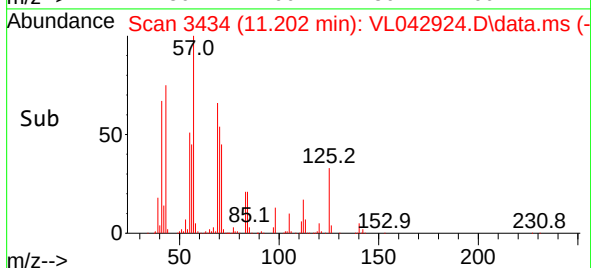
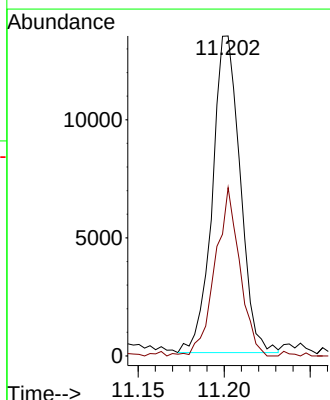
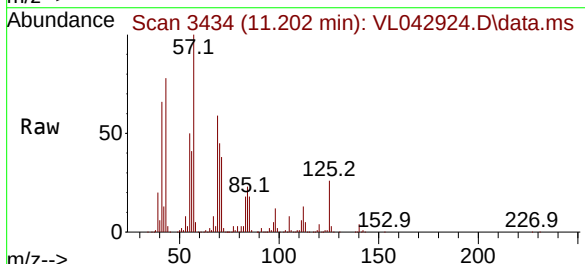
Manual Integrations
APPROVED

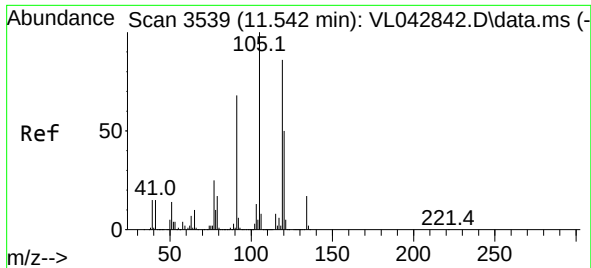
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.302 ppbv
RT: 11.202 min Scan# 3434
Delta R.T. 0.006 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

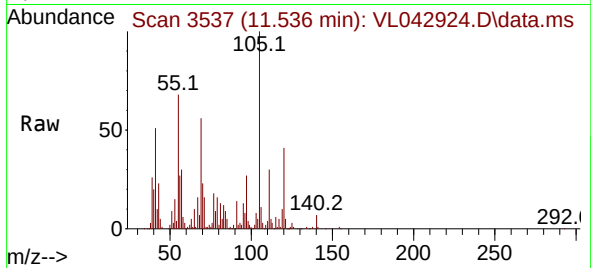
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.1	36.6	54.8





#74
1,2,4-Trimethylbenzene
Concen: 0.552 ppbv
RT: 11.536 min Scan# 3024
Delta R.T. 0.006 min
Lab File: VL042924.D
Acq: 10 Sep 2025 12:05

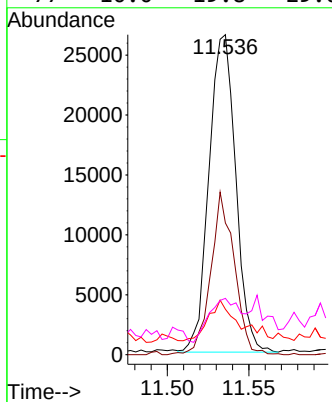
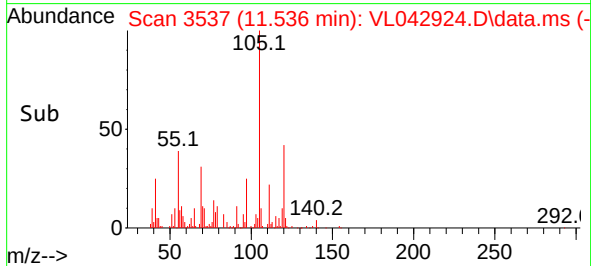
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:	105	Resp:	3024
Ion	Ratio	Lower	Upper
105	100		
120	41.2	39.8	59.6
91	9.9	54.2	81.4
77	10.0	19.8	29.6

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	SV2DL	SDG No.:	Q3052
Lab Sample ID:	Q3052-02DL	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
VL042925.D	40		09/10/25 12:41	VL091025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	1.00	2.56	UD	2.56	3.07	ug/m3
156-60-5	trans-1,2-Dichloroethene	4.80	19.0	UD	19.0	79.3	ug/m3
75-34-3	1,1-Dichloroethane	5.20	21.1	UD	21.1	81.0	ug/m3
156-59-2	cis-1,2-Dichloroethene	4.00	15.9	UD	15.9	79.3	ug/m3
71-55-6	1,1,1-Trichloroethane	0.64	3.49	UD	3.49	6.55	ug/m3
107-06-2	1,2-Dichloroethane	3.70	15.0	UD	15.0	81.0	ug/m3
79-01-6	Trichloroethene	0.96	5.16	UD	5.16	6.45	ug/m3
127-18-4	Tetrachloroethene	350	2370	D	4.07	8.14	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	147000		2.78			
540-36-3	1,4-Difluorobenzene	371000		3.949			
3114-55-4	Chlorobenzene-d5	321000		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\VL091025\
 Data File : VL042925.D
 Acq On : 10 Sep 2025 12:41
 Operator : SY/MD
 Sample : Q3052-02DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:12:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	147188	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	371484	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	320718	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	247690	10.298	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%
Target Compounds						
					Qvalue	
10) Heptane	4.972	43	10152m	0.368	ppbv	
13) Ethanol	1.719	45	26272	27.903	ppbv	92
15) Acetone	1.832	43	249221	12.800	ppbv	99
26) Hexane	2.823	57	21869	1.005	ppbv #	41
29) Chloroform	2.842	83	113659	3.660	ppbv	98
34) 2-Butanone	2.557	43	7244	0.289	ppbv	96
42) Bromodichloromethane	4.480	83	7183	0.259	ppbv #	87
51) 2-Hexanone	7.438	43	6862m	0.257	ppbv	
52) Tetrachloroethene	8.218	164	113887	8.850	ppbv	96
53) Toluene	6.923	91	9196m	0.217	ppbv	
59) m/p-Xylene	9.522	91	7276m	0.164	ppbv	

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

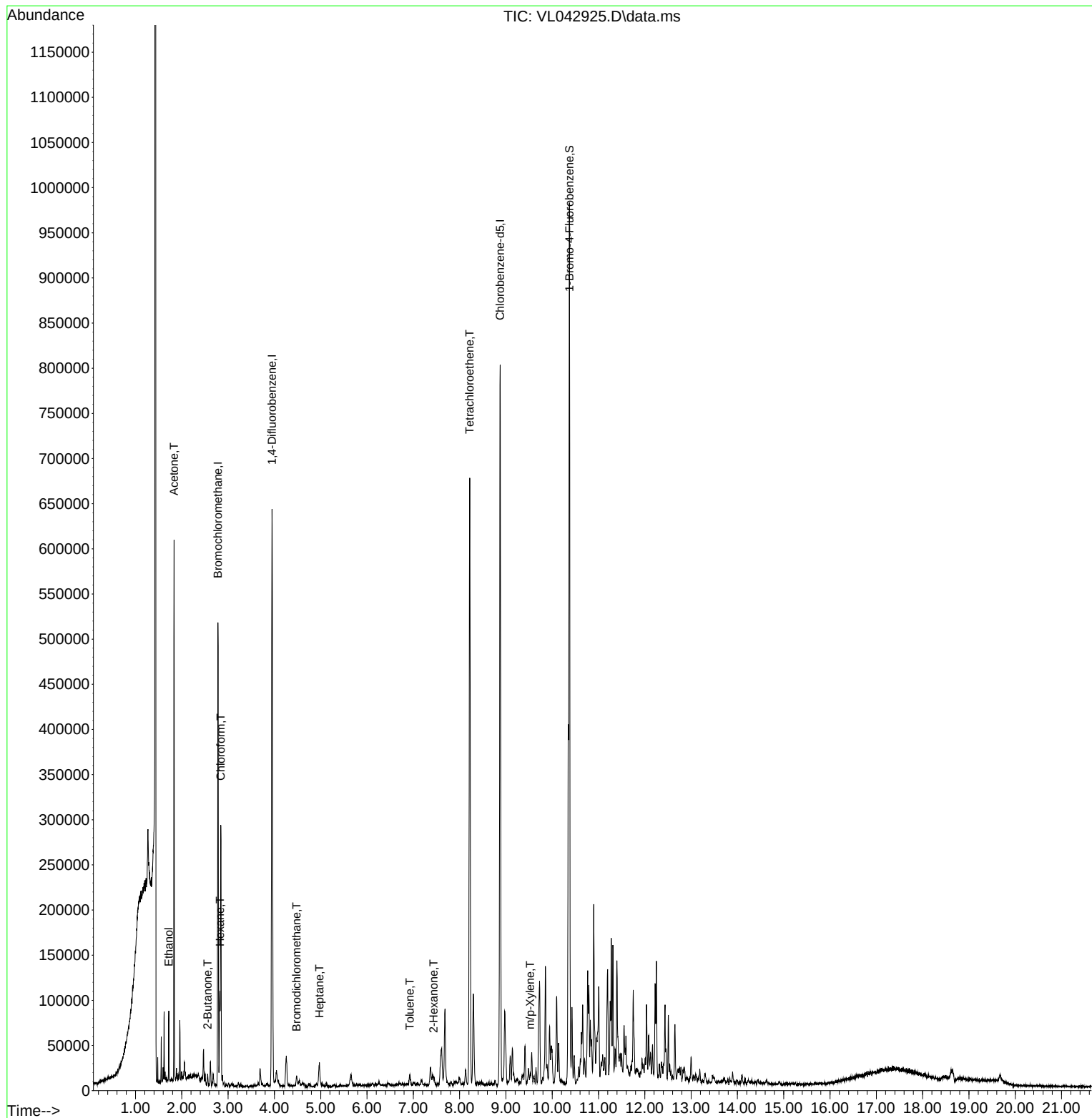
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
Data File : VL042925.D
Acq On : 10 Sep 2025 12:41
Operator : SY/MD
Sample : Q3052-02DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

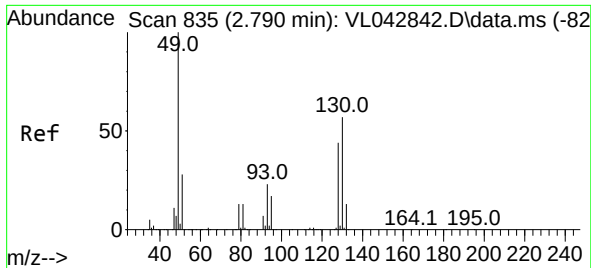
Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/11/2025
Supervised By : Mahesh Dadoda 09/11/2025

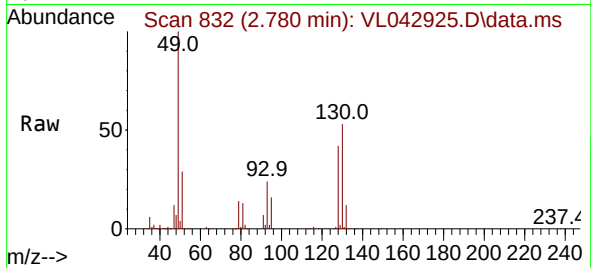
Quant Time: Sep 11 01:12:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.780 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

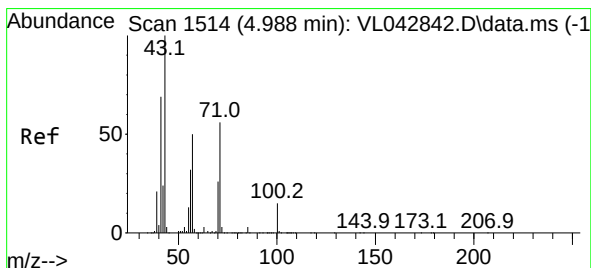
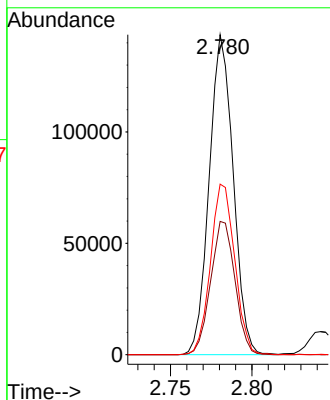
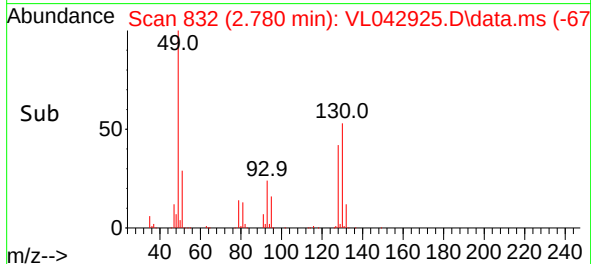
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



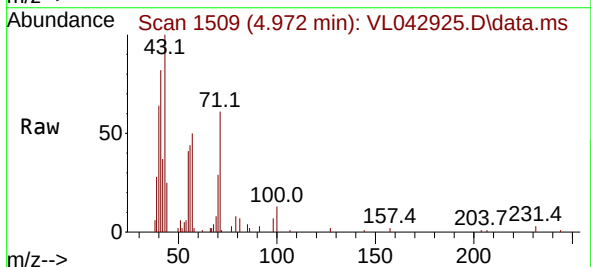
Tgt Ion: 49 Resp: 147188
Ion Ratio Lower Upper
49 100
128 42.2 23.7 71.1
130 53.9 30.6 91.6

Manual Integrations
APPROVED

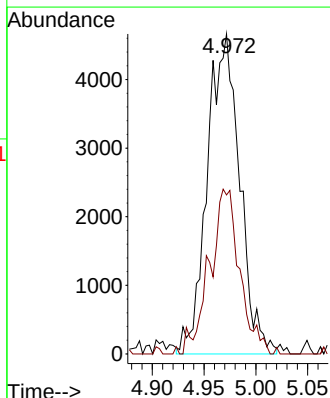
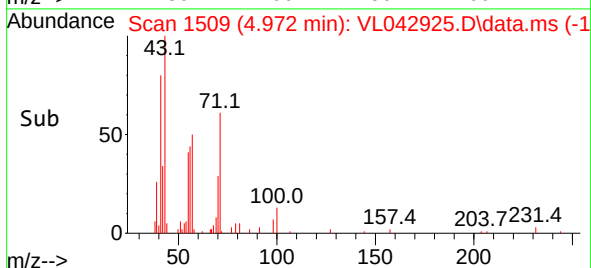
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025

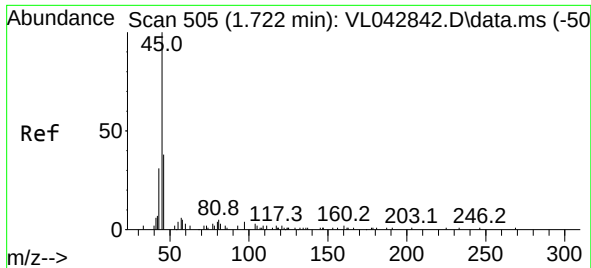


#10
Heptane
Concen: 0.368 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. 0.013 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41



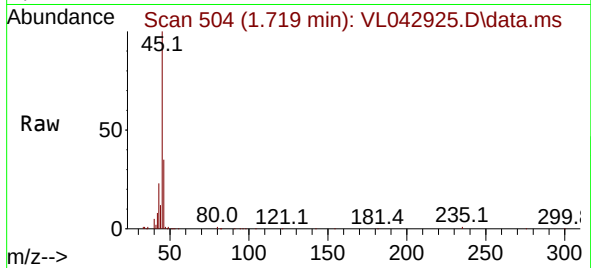
Tgt Ion: 43 Resp: 10152
Ion Ratio Lower Upper
43 100
57 48.1 41.4 62.0





#13
Ethanol
Concen: 27.903 ppbv
RT: 1.719 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

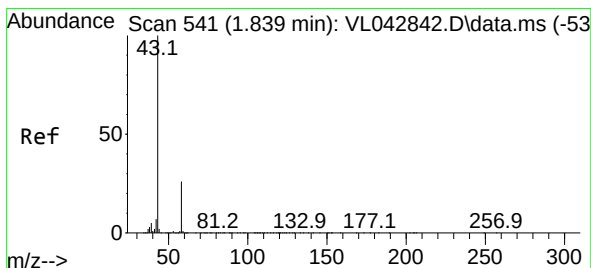
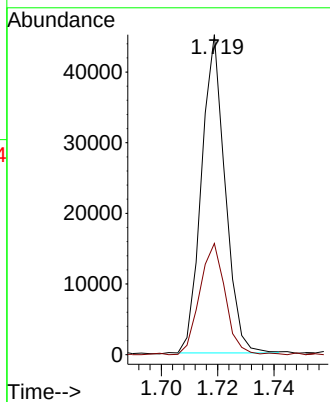
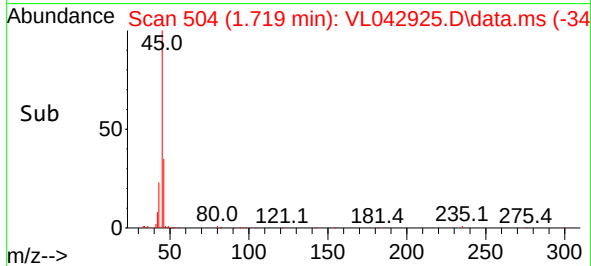
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



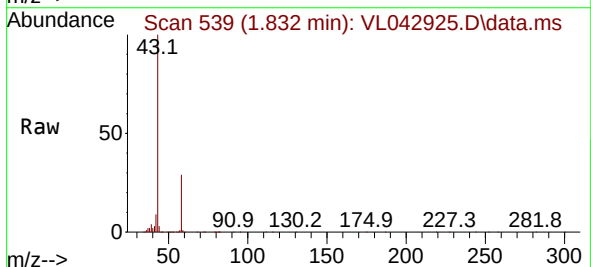
Tgt Ion: 45 Resp: 26272
Ion Ratio Lower Upper
45 100
46 38.7 17.5 69.9

Manual Integrations
APPROVED

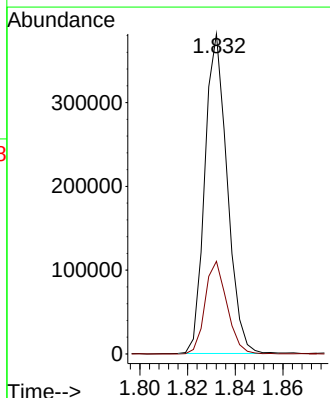
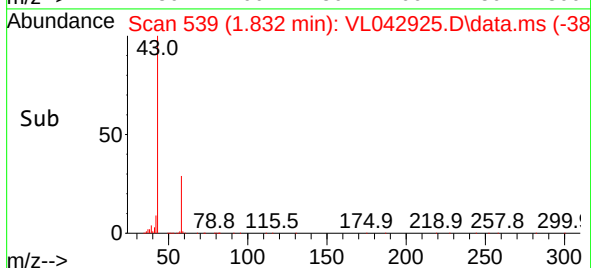
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025

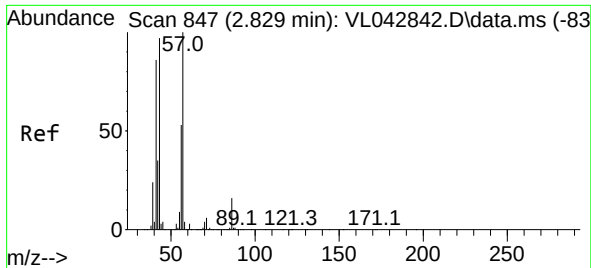


#15
Acetone
Concen: 12.800 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41



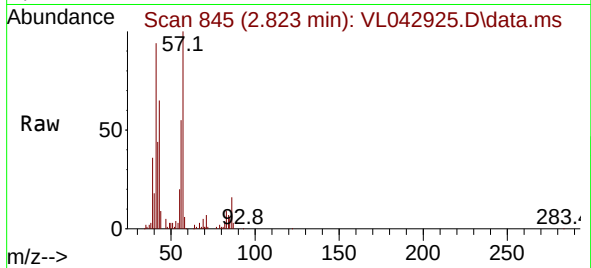
Tgt Ion: 43 Resp: 249221
Ion Ratio Lower Upper
43 100
58 28.6 22.4 33.6





#26
Hexane
Concen: 1.005 ppbv
RT: 2.823 min Scan# 847
Delta R.T. 0.006 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

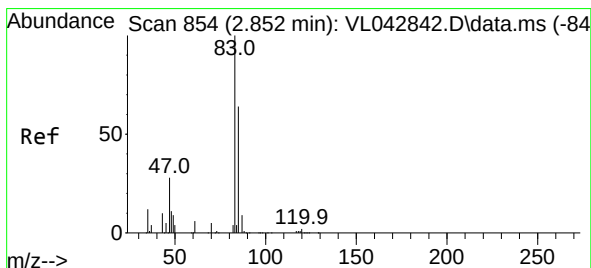
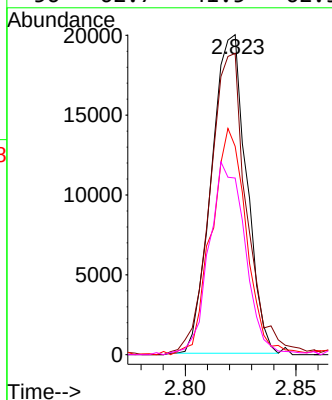
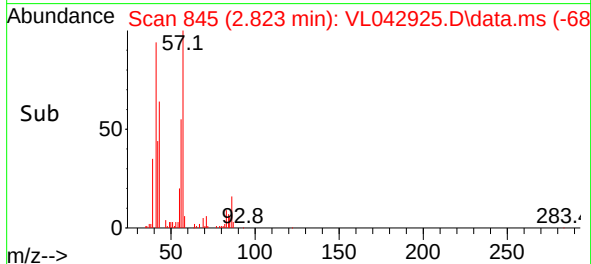
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 57 Resp: 21869
Ion Ratio Lower Upper
57 100
41 100.4 68.6 103.0
43 73.8 168.5 252.7
56 62.7 41.5 62.3#

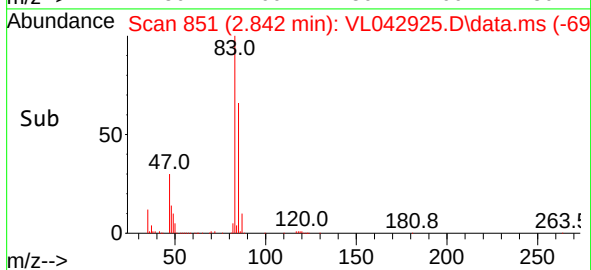
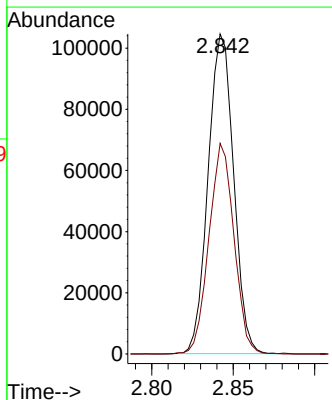
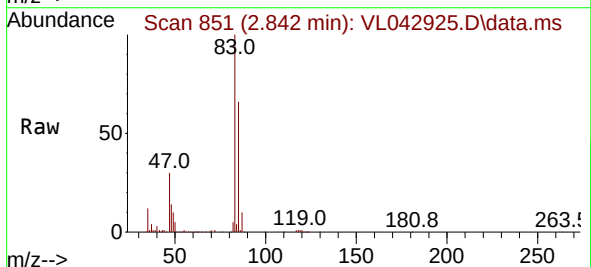
Manual Integrations
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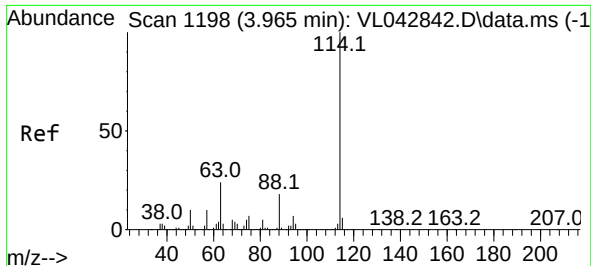
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#29
Chloroform
Concen: 3.660 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

Tgt Ion: 83 Resp: 113659
Ion Ratio Lower Upper
83 100
85 65.8 51.1 76.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1198

Delta R.T. 0.006 min

Lab File: VL042925.D

Acq: 10 Sep 2025 12:41

Instrument :

MSVOA_L

ClientSampleId :

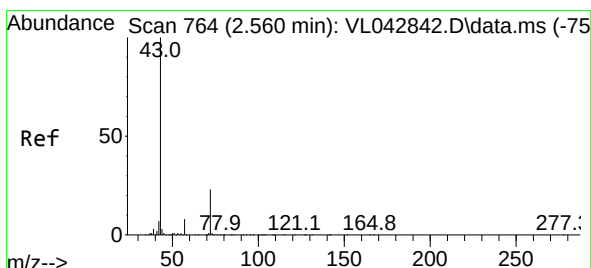
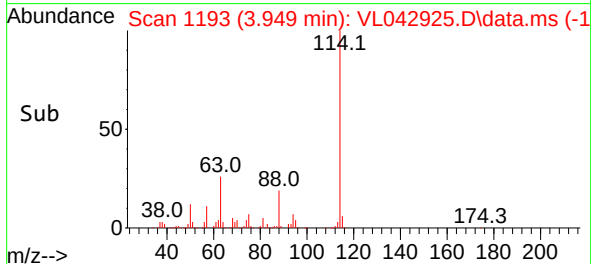
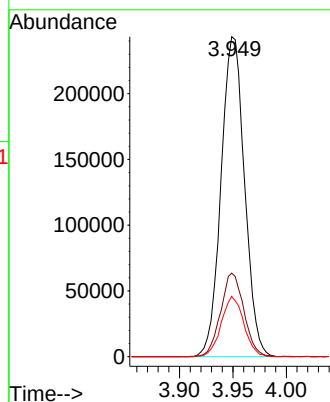
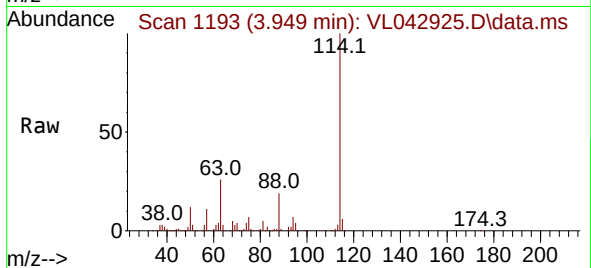
SV2DL

Tgt Ion:114	Resp:	371484
Ion Ratio	Lower	Upper
114	100	
63	25.9	19.7 29.5
88	18.1	14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 0.289 ppbv

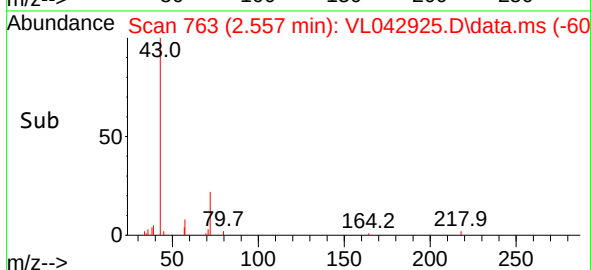
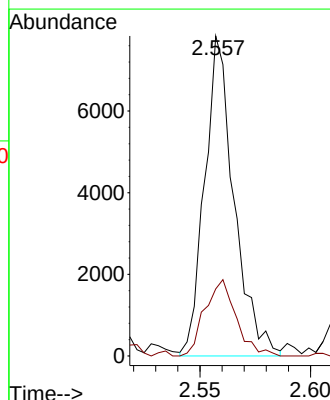
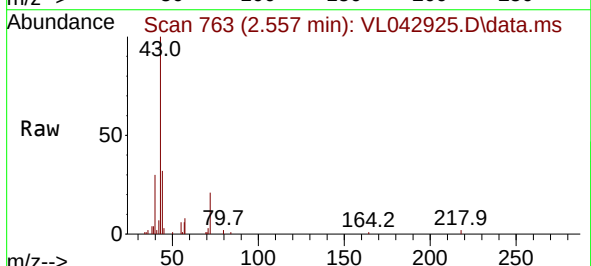
RT: 2.557 min Scan# 763

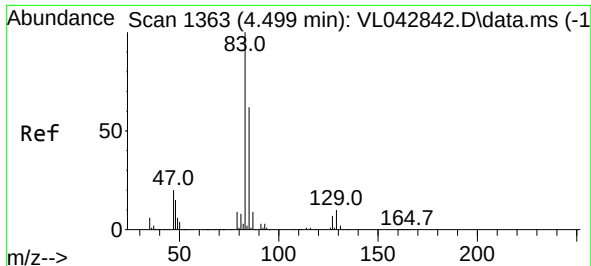
Delta R.T. 0.010 min

Lab File: VL042925.D

Acq: 10 Sep 2025 12:41

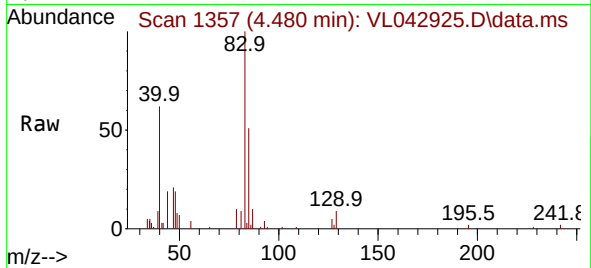
Tgt Ion: 43	Resp:	7244
Ion Ratio	Lower	Upper
43	100	
72	25.4	18.6 28.0





#42
Bromodichloromethane
Concen: 0.259 ppbv
RT: 4.480 min Scan# 11
Delta R.T. 0.006 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

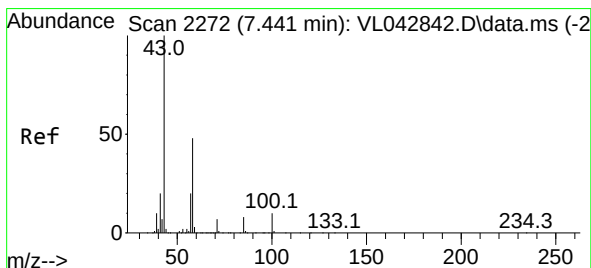
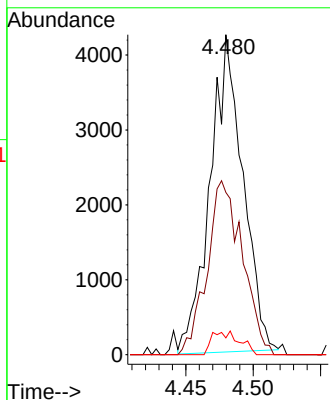
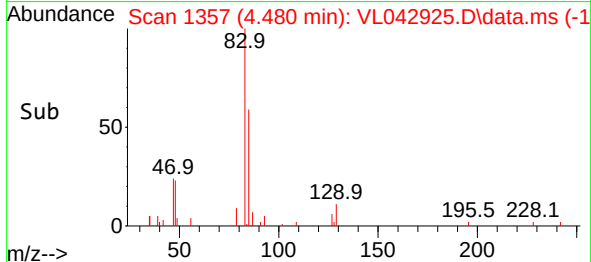
Instrument :
MSVOA_L
ClientSampleId :
SV2DL



Tgt Ion: 83 Resp: 7183
Ion Ratio Lower Upper
83 100
85 51.5 49.8 74.8
127 5.3 5.8 8.6

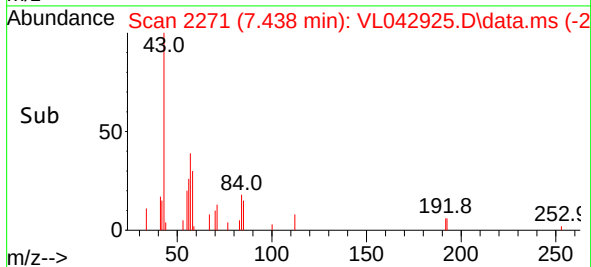
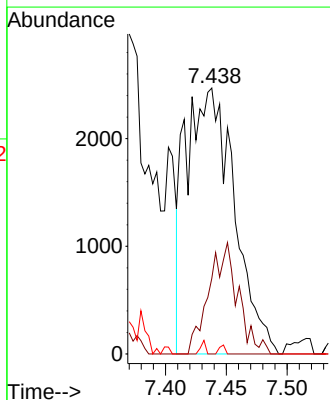
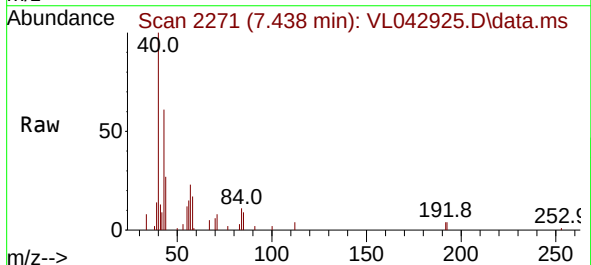
Manual Integrations
APPROVED

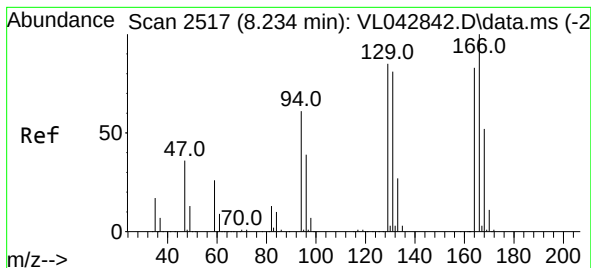
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#51
2-Hexanone
Concen: 0.257 ppbv m
RT: 7.438 min Scan# 2271
Delta R.T. 0.019 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

Tgt Ion: 43 Resp: 6862
Ion Ratio Lower Upper
43 100
58 0.0 41.0 61.6#
98 0.9 0.1 0.1#





#52

Tetrachloroethene

Concen: 8.850 ppbv

RT: 8.218 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VL042925.D

Acq: 10 Sep 2025 12:41

Instrument :

MSVOA_L

ClientSampleId :

SV2DL

Tgt Ion:164 Resp: 11388

Ion Ratio Lower Upper

164 100

166 121.1 96.5 144.7

129 107.3 81.8 122.6

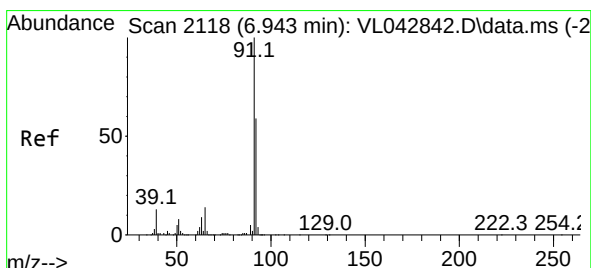
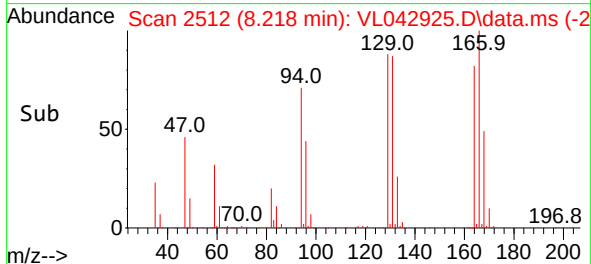
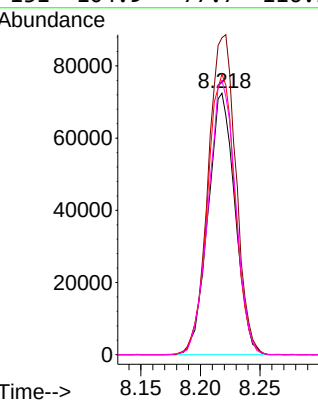
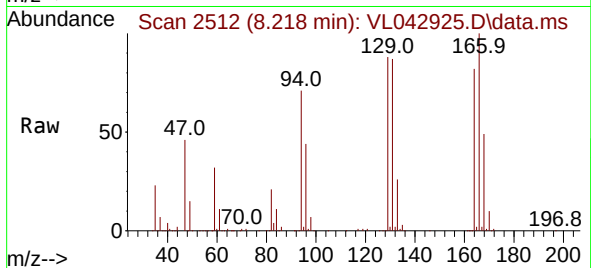
131 104.9 77.7 116.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/11/2025

Supervised By :Mahesh Dadoda 09/11/2025



#53

Toluene

Concen: 0.217 ppbv m

RT: 6.923 min Scan# 2112

Delta R.T. 0.010 min

Lab File: VL042925.D

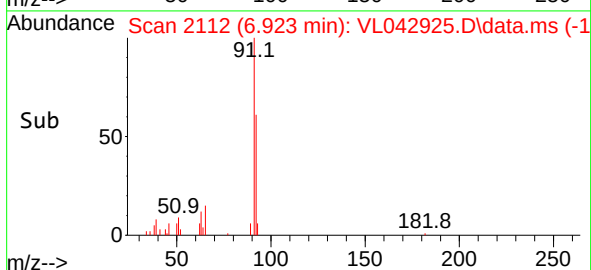
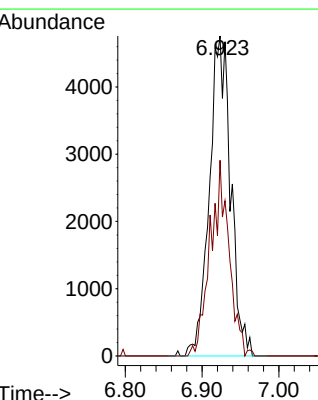
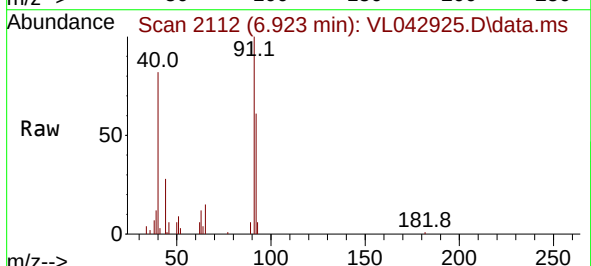
Acq: 10 Sep 2025 12:41

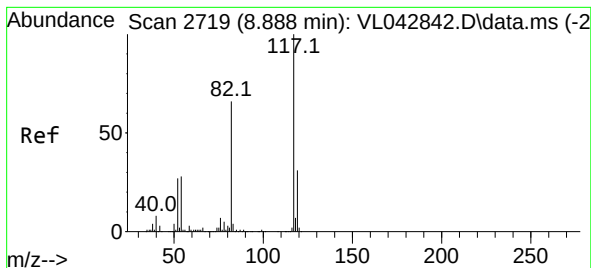
Tgt Ion: 91 Resp: 9196

Ion Ratio Lower Upper

91 100

92 53.6 47.8 71.6





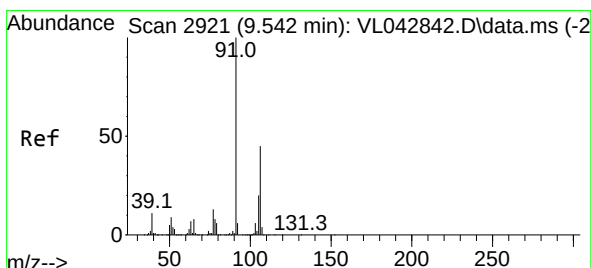
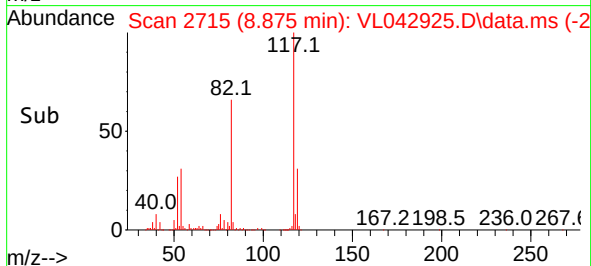
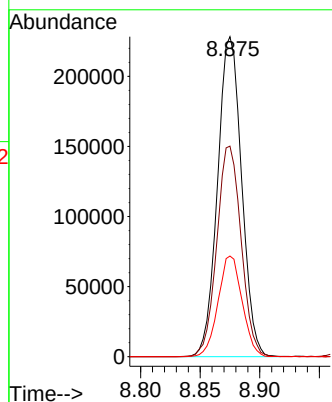
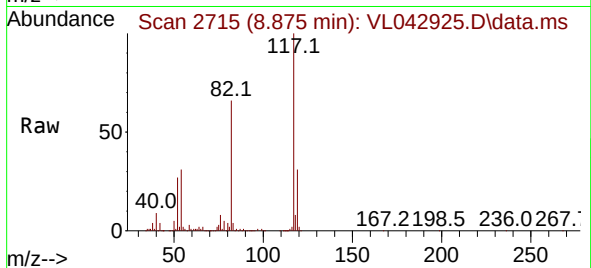
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. 0.006 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

Instrument :
MSVOA_L
ClientSampleId :
SV2DL

Tgt Ion:117 Resp: 320718
Ion Ratio Lower Upper
117 100
82 66.6 54.6 81.8
119 31.4 25.9 38.9

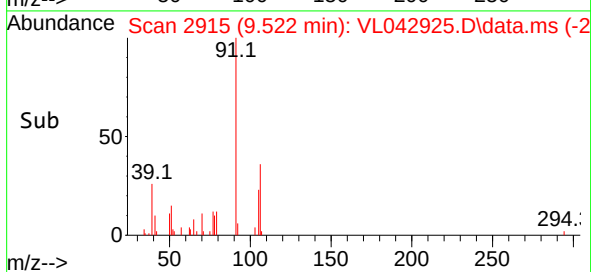
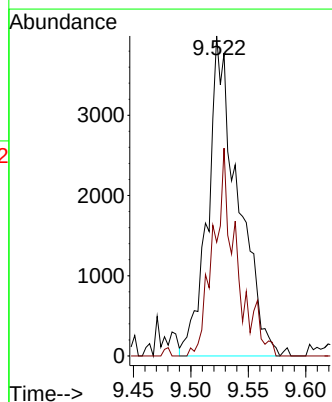
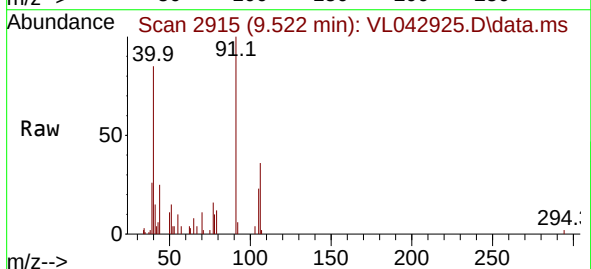
Manual Integrations
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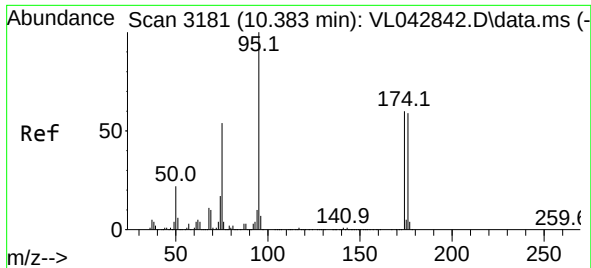
Reviewed By :Semsettin Yesilyurt 09/11/2025
Supervised By :Mahesh Dadoda 09/11/2025



#59
m/p-Xylene
Concen: 0.164 ppbv m
RT: 9.522 min Scan# 2915
Delta R.T. -0.016 min
Lab File: VL042925.D
Acq: 10 Sep 2025 12:41

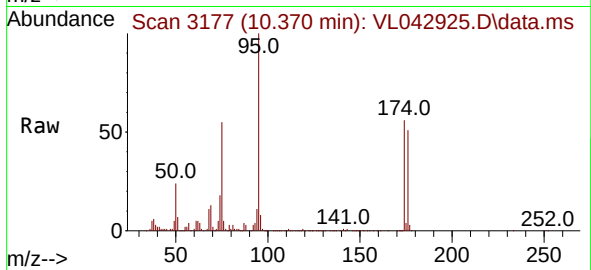
Tgt Ion: 91 Resp: 7276
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.298 ppbv
 RT: 10.370 min Scan# 3181
 Delta R.T. 0.006 min
 Lab File: VL042925.D
 Acq: 10 Sep 2025 12:41

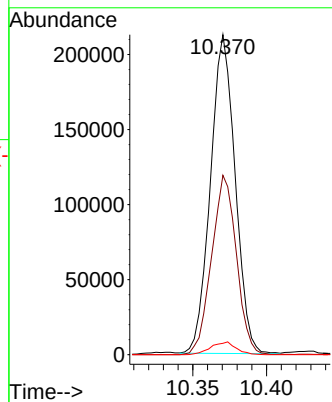
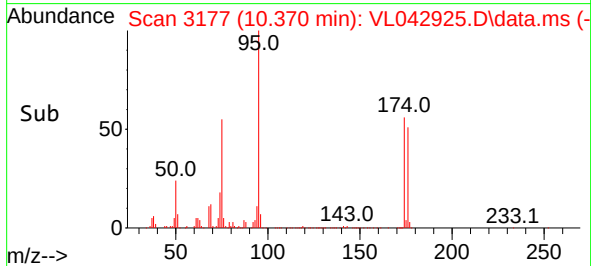
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2DL



Tgt Ion: 95 Resp: 247690
 Ion Ratio Lower Upper
 95 100
 174 56.5 48.4 72.6
 175 4.1 3.8 5.8

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	IA1	SDG No.:	Q3052
Lab Sample ID:	Q3052-03	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
VL042908.D	1		09/08/25 17:45	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.040	0.10		0.080	0.080	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	100	678	E	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	142000			2.784		
540-36-3	1,4-Difluorobenzene	357000			3.956		
3114-55-4	Chlorobenzene-d5	305000			8.879		

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\VL090825\
 Data File : VL042908.D
 Acq On : 08 Sep 2025 17:45
 Operator : SY/MD
 Sample : Q3052-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
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Reviewed By : Semsettin
 Yesilyurt

Quant Time: Sep 09 00:58:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

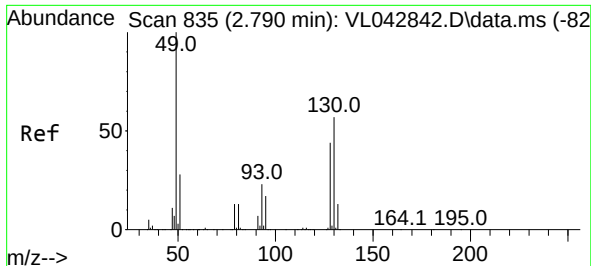
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	141872	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	356641	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.879	117	304804	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	229743	10.050	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.500%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	10936	0.526	ppbv	94
3) Chlorodifluoromethane	1.473	51	56721	2.468	ppbv #	90
4) Chloromethane	1.531	50	35993	4.290	ppbv	99
5) Vinyl Chloride	1.577	62	357m	0.043	ppbv	
7) Chloroethane	1.703	64	587	0.182	ppbv #	39
9) Propene	1.483	41	15520	1.564	ppbv	97
11) Trichlorofluoromethane	1.878	101	5506	0.268	ppbv	87
13) Ethanol	1.729	45	2713705	2990.172	ppbv	92
15) Acetone	1.836	43	269167	14.342	ppbv	95
17) tert-Butyl alcohol	2.046	59	9198	0.413	ppbv	100
19) Isopropyl Alcohol	1.888	45	754919	67.348	ppbv #	36
20) Methylene Chloride	2.062	84	14219	1.809	ppbv	93
23) Vinyl Acetate	2.451	43	54142m	2.098	ppbv	
25) Ethyl Acetate	2.836	43	114034	2.511	ppbv #	94
26) Hexane	2.823	57	20454m	0.976	ppbv	
29) Chloroform	2.846	83	24170	0.807	ppbv	97
34) 2-Butanone	2.558	43	39587	1.644	ppbv	99
35) Carbon Tetrachloride	3.765	117	3946	0.160	ppbv	93
36) Benzene	3.658	78	12361	0.362	ppbv	99
41) Tetrahydrofuran	3.062	42	3346	0.249	ppbv #	77
44) 2,2,4-Trimethylpentane	4.645	57	10459m	0.180	ppbv	
52) Tetrachloroethene	8.228	164	1262131	102.158	ppbv	94
53) Toluene	6.937	91	20494m	0.505	ppbv	
59) m/p-Xylene	9.529	91	11286m	0.268	ppbv	
60) o-Xylene	9.960	91	4961	0.117	ppbv	97
74) 1,2,4-Trimethylbenzene	11.533	105	5497	0.115	ppbv #	64

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

Reviewed By :Semsettin
Yesilyurt

09/11/2025





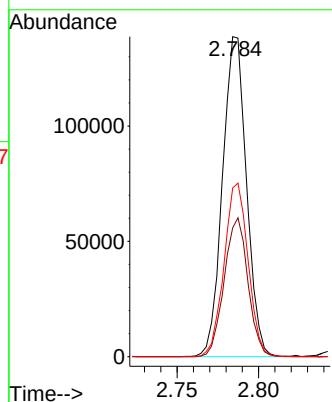
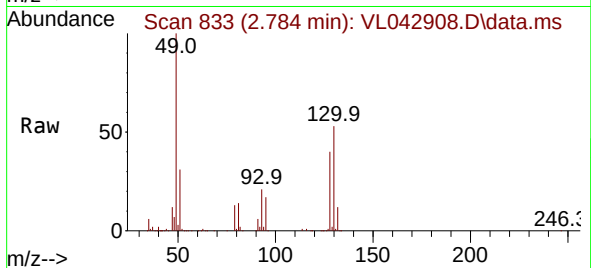
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 141872
Ion Ratio Lower Upper
49 100
128 42.9 23.7 71.1
130 54.3 30.6 91.6

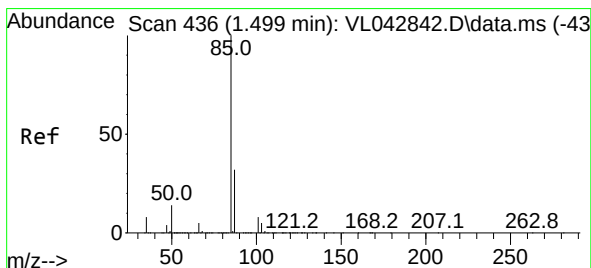
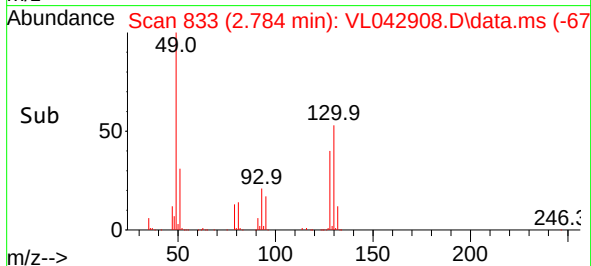
Manual Integrations
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Reviewed By :Semsettin
Yesilyurt



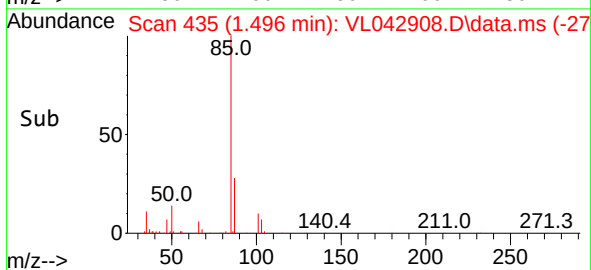
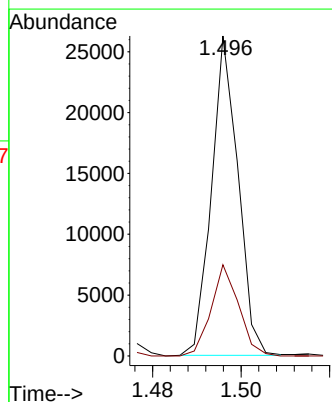
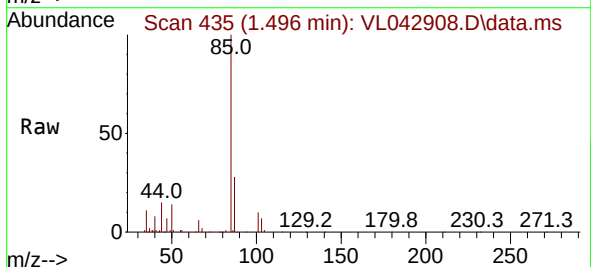
09/09/2025
Supervised By :Mahesh
Dadoda

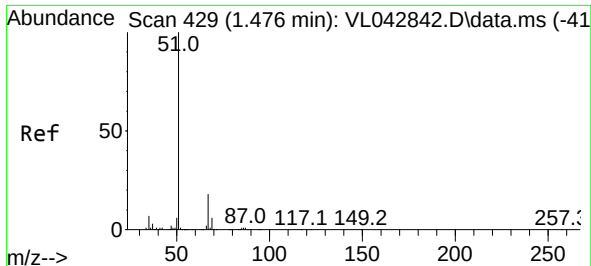
09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.526 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

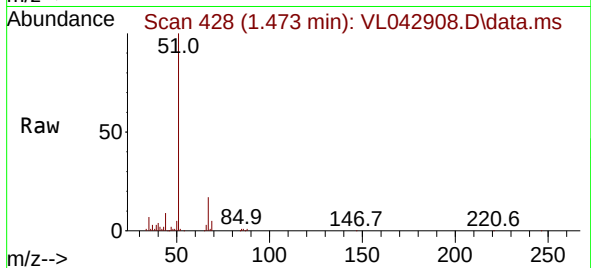
Tgt Ion: 85 Resp: 10936
Ion Ratio Lower Upper
85 100
87 28.5 25.3 37.9





#3
Chlorodifluoromethane
Concen: 2.468 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

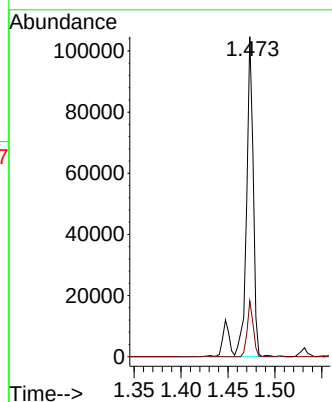
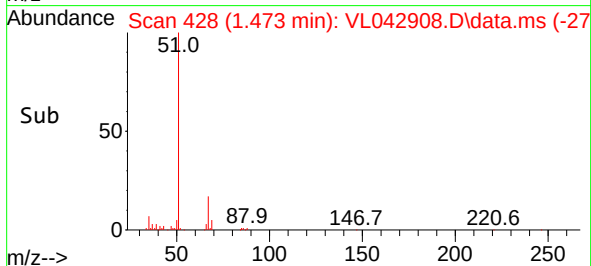
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 5672
Ion Ratio Lower Upper
51 100
67 14.2 14.9 22.3

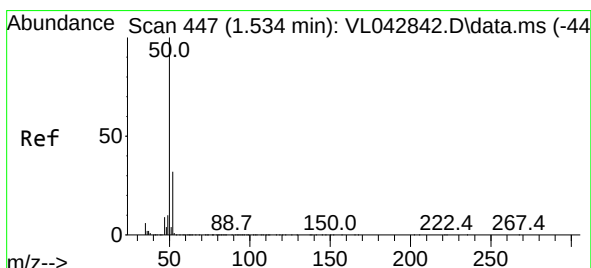
Manual Integrations
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Reviewed By :Semsettin
Yesilyurt

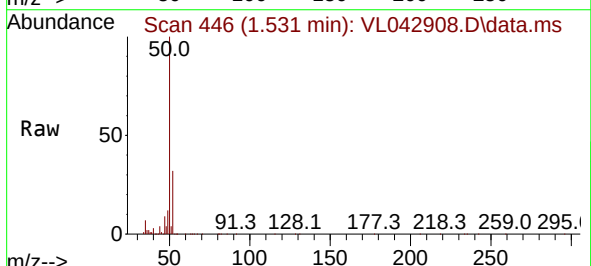


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Supervised By :Mahesh
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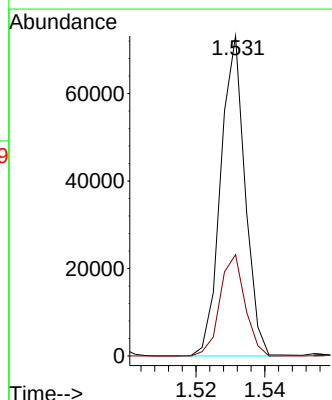
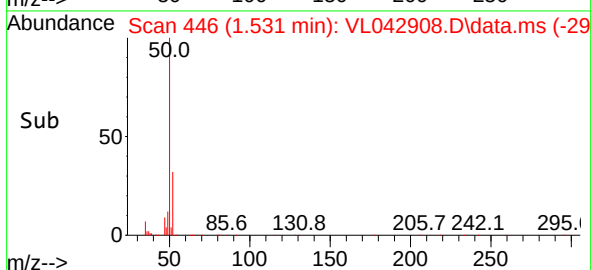
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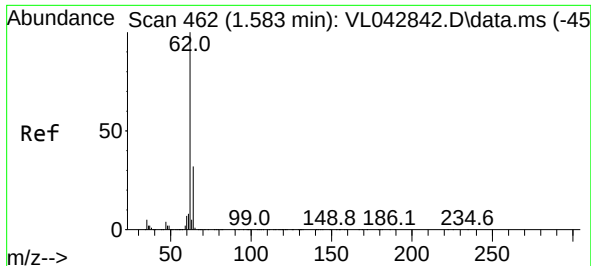


#4
Chloromethane
Concen: 4.290 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



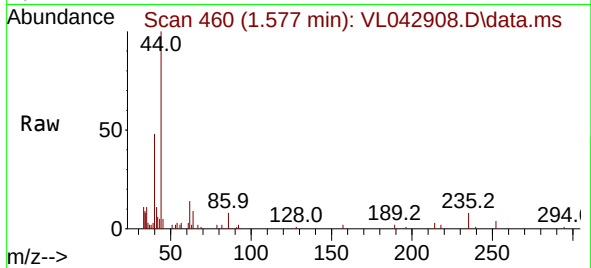
Tgt Ion: 50 Resp: 35993
Ion Ratio Lower Upper
50 100
52 31.7 25.9 38.9





#5
Vinyl Chloride
Concen: 0.043 ppbv m
RT: 1.577 min Scan# 40
Delta R.T. 0.000 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

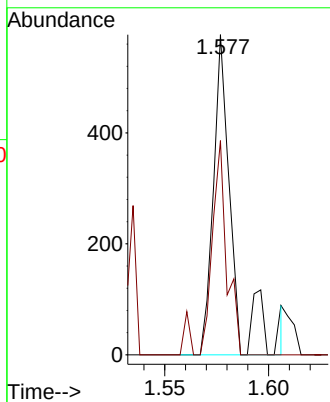
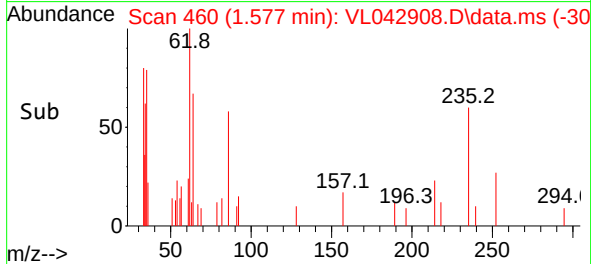
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 62 Resp: 35
Ion Ratio Lower Upper
62 100
64 66.9 25.4 38.2

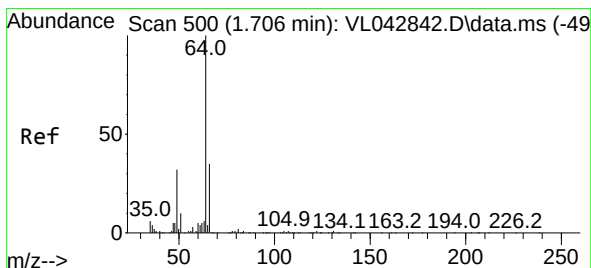
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

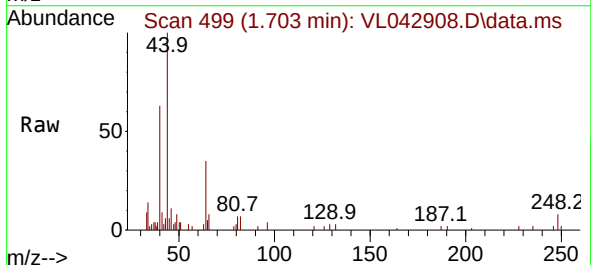


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Dadoda

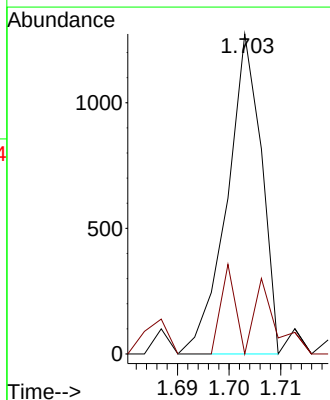
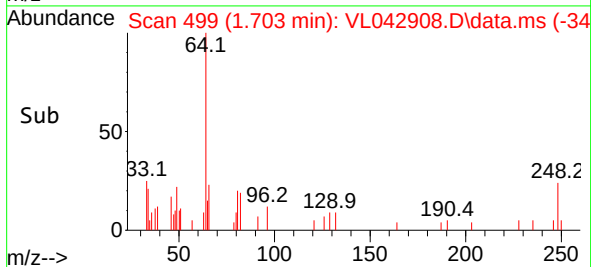
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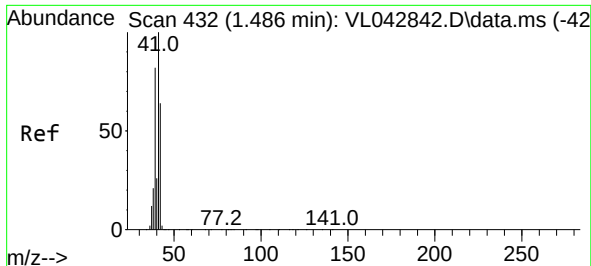


#7
Chloroethane
Concen: 0.182 ppbv
RT: 1.703 min Scan# 499
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



Tgt Ion: 64 Resp: 587
Ion Ratio Lower Upper
64 100
66 0.0 28.6 42.8





#9

Propene

Concen: 1.564 ppbv

RT: 1.483 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 15520

Ion Ratio Lower Upper

41 100

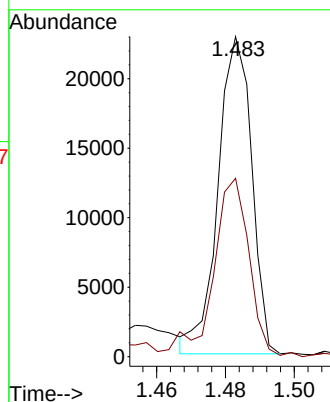
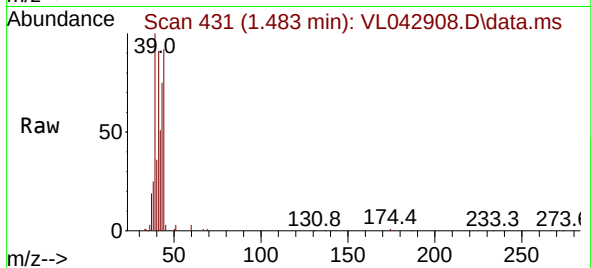
42 68.6 53.0 79.4

Manual Integrations

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Reviewed By :Semsettin

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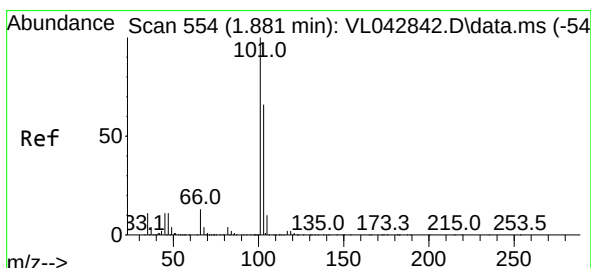
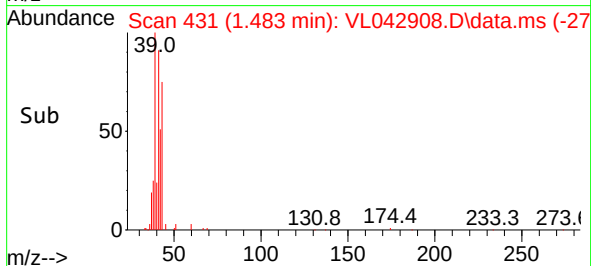


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#11

Trichlorofluoromethane

Concen: 0.268 ppbv

RT: 1.878 min Scan# 553

Delta R.T. 0.007 min

Lab File: VL042908.D

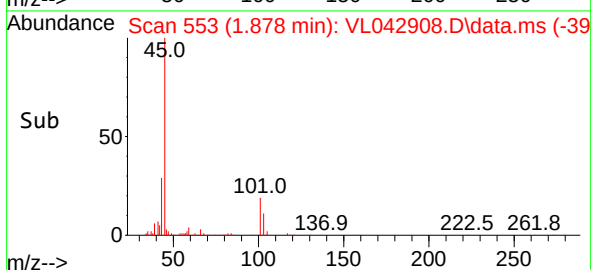
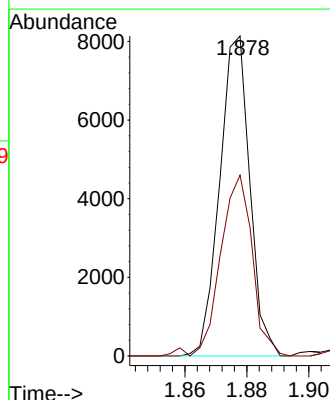
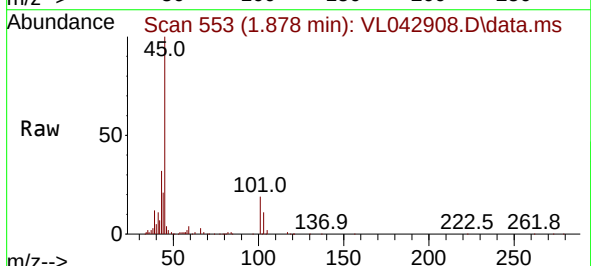
Acq: 08 Sep 2025 17:45

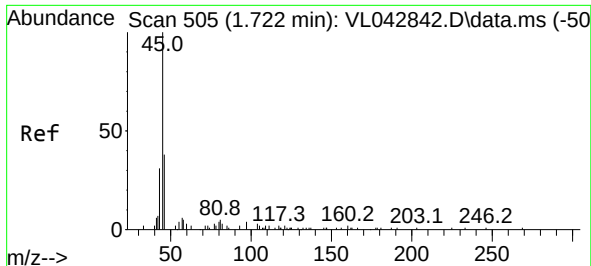
Tgt Ion:101 Resp: 5506

Ion Ratio Lower Upper

101 100

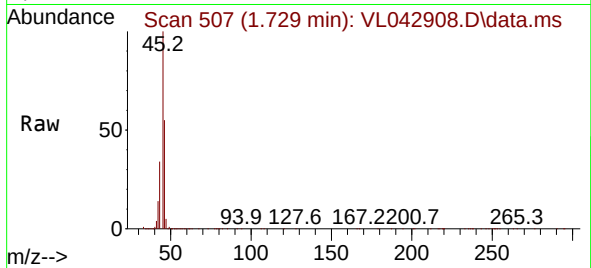
103 55.7 52.5 78.7





#13
Ethanol
Concen: 2990.172 ppbv
RT: 1.729 min Scan# 50
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

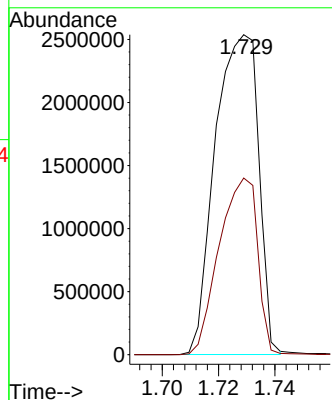
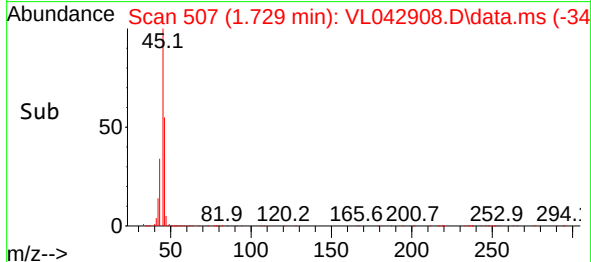
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 271370
Ion Ratio Lower Upper
45 100
46 49.2 17.5 69.9

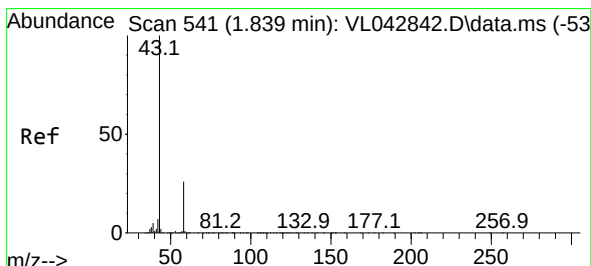
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Yesilyurt

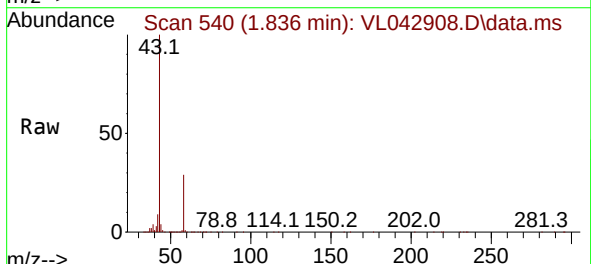


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Dadoda

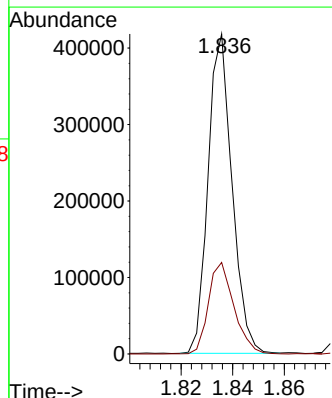
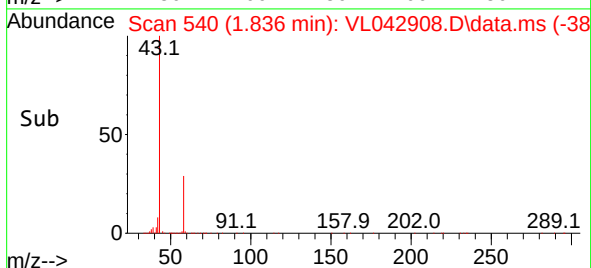
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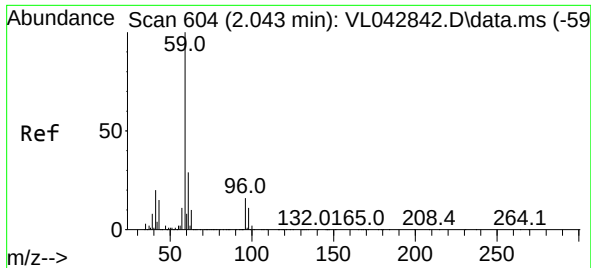


#15
Acetone
Concen: 14.342 ppbv
RT: 1.836 min Scan# 540
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



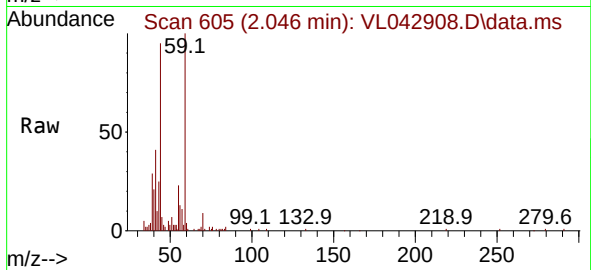
Tgt Ion: 43 Resp: 269167
Ion Ratio Lower Upper
43 100
58 30.6 22.4 33.6





#17
tert-Butyl alcohol
Concen: 0.413 ppbv
RT: 2.046 min Scan# 604
Delta R.T. 0.013 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

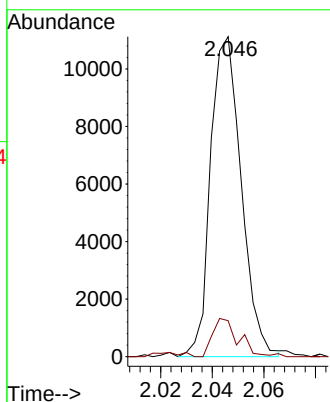
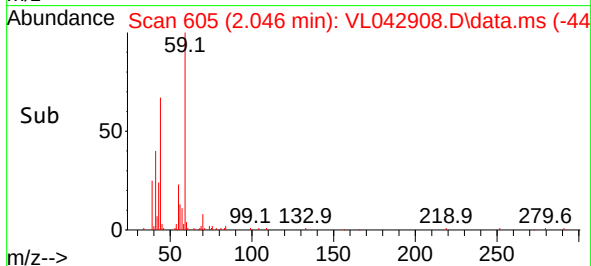
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 59 Resp: 9198
Ion Ratio Lower Upper
59 100
57 11.4 9.0 13.4

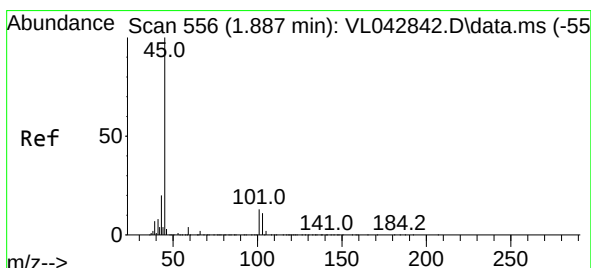
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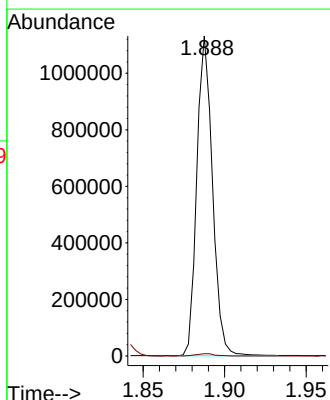
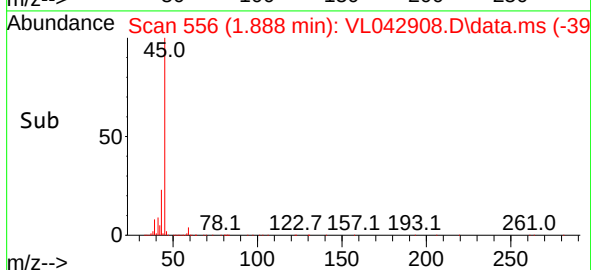
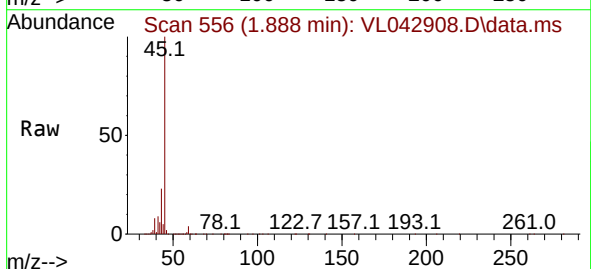
09/09/2025
Supervised By :Mahesh
Dadoda

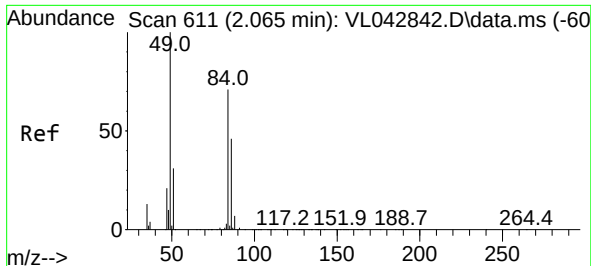
09/11/2025



#19
Isopropyl Alcohol
Concen: 67.348 ppbv
RT: 1.888 min Scan# 556
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

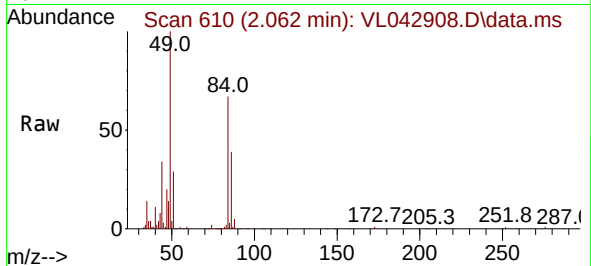
Tgt Ion: 45 Resp: 754919
Ion Ratio Lower Upper
45 100
58 0.9 32.7 49.1#





#20
Methylene Chloride
Concen: 1.809 ppbv
RT: 2.062 min Scan# 611
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

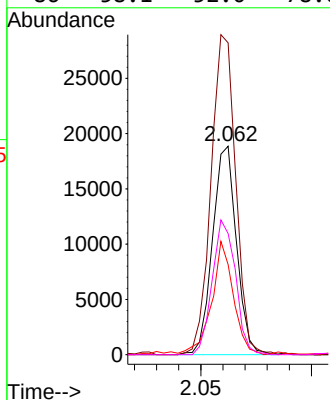
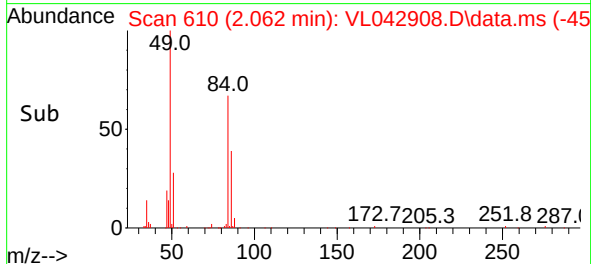
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 14219
Ion Ratio Lower Upper
84 100
49 149.5 112.3 168.5
51 42.5 36.0 54.0
86 58.1 52.0 78.0

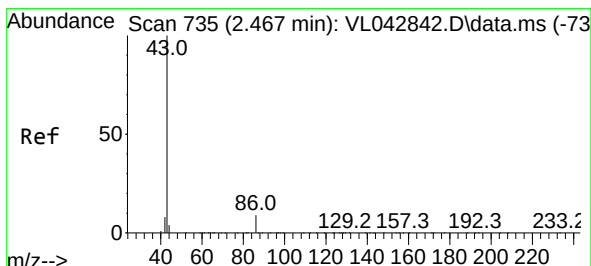
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Reviewed By :Semsettin
Yesilyurt

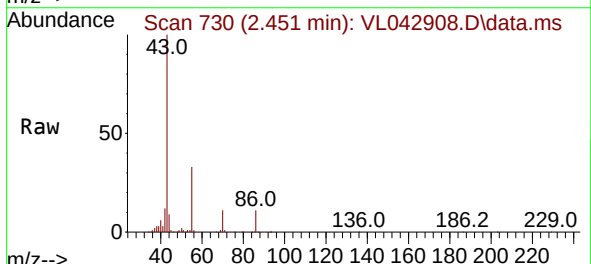


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Supervised By :Mahesh
Dadoda

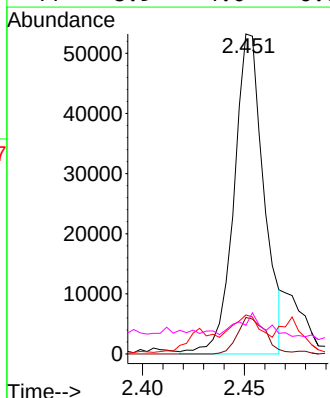
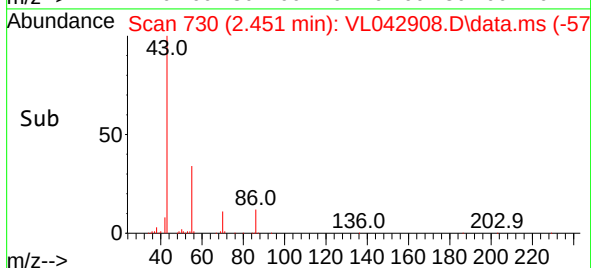
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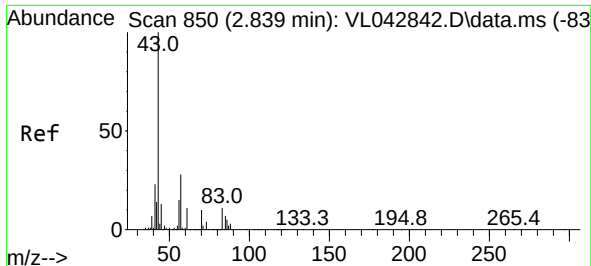


#23
Vinyl Acetate
Concen: 2.098 ppbv m
RT: 2.451 min Scan# 730
Delta R.T. -0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45



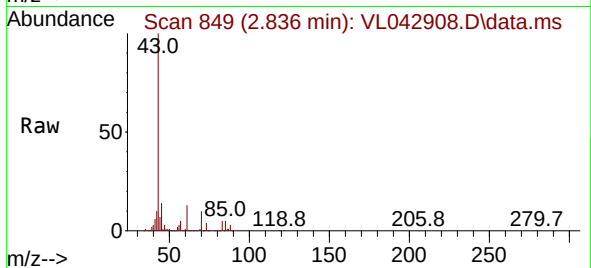
Tgt Ion: 43 Resp: 54142
Ion Ratio Lower Upper
43 100
86 11.4 6.6 9.8#
42 12.2 7.0 10.6#
44 8.9 4.0 6.0#





#25
Ethyl Acetate
Concen: 2.511 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

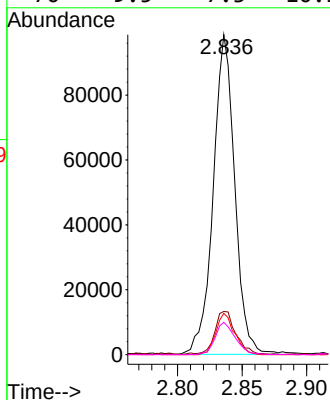
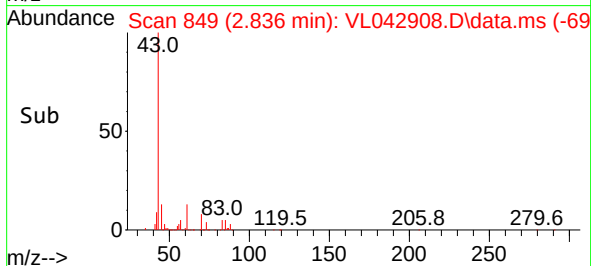
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 114034
Ion Ratio Lower Upper
43 100
45 13.9 8.1 12.1
61 11.3 7.4 11.2
70 9.5 7.3 10.9

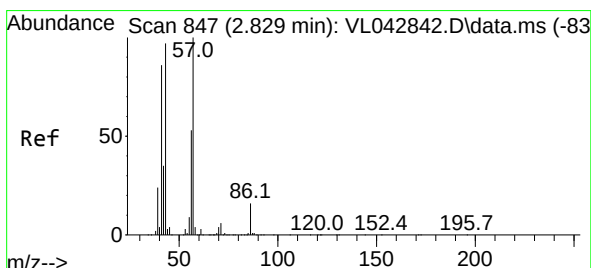
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Yesilyurt



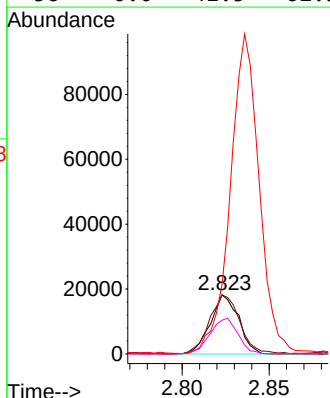
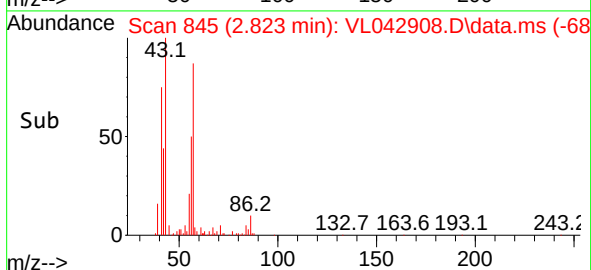
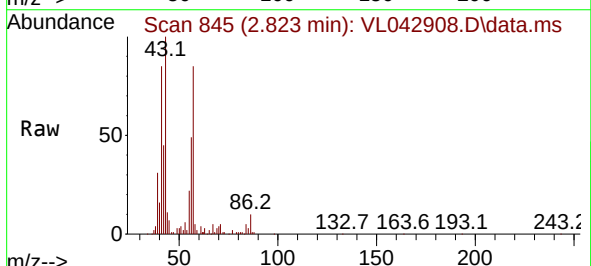
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Supervised By :Mahesh
Dadoda

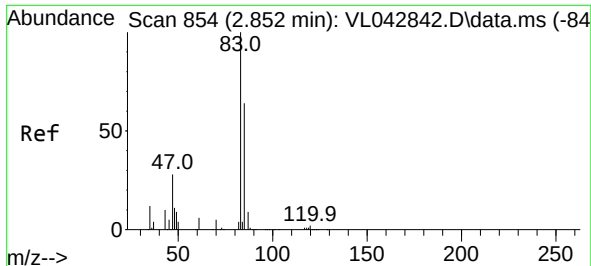
09/11/2025



#26
Hexane
Concen: 0.976 ppbv m
RT: 2.823 min Scan# 845
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion: 57 Resp: 20454
Ion Ratio Lower Upper
57 100
41 0.0 68.6 103.0#
43 0.0 168.5 252.7#
56 0.0 41.5 62.3#





#29

Chloroform

Concen: 0.807 ppbv

RT: 2.846 min Scan# 8

Delta R.T. 0.007 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 24170

Ion Ratio Lower Upper

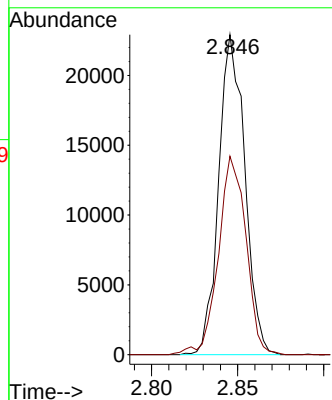
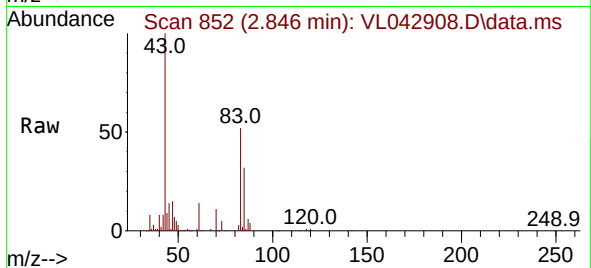
83 100

85 61.7 51.1 76.7

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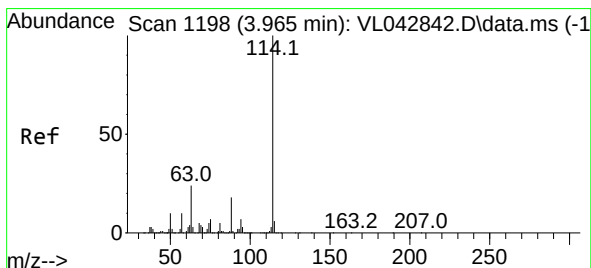
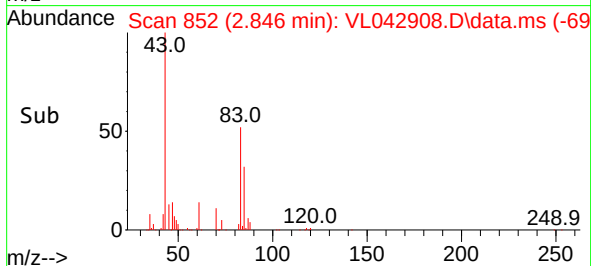
Reviewed By :Semsettin
Yesilyurt



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Supervised By :Mahesh
Dadoda

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. 0.013 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

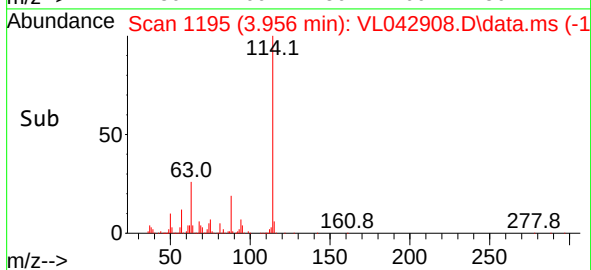
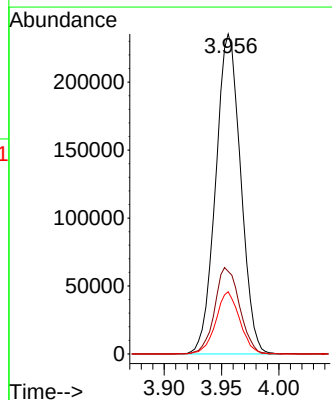
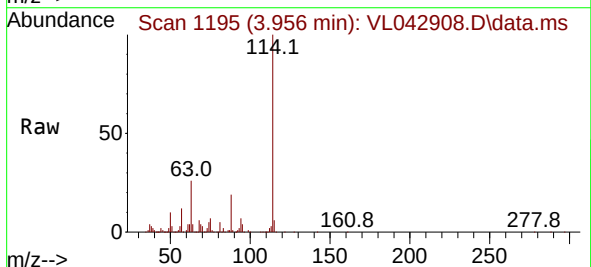
Tgt Ion:114 Resp: 356641

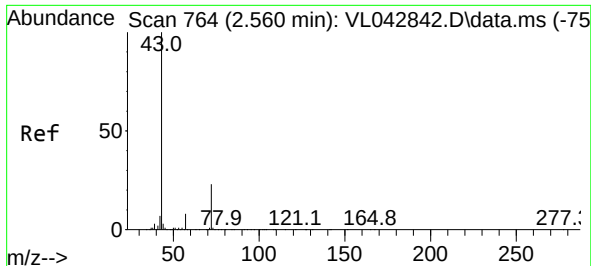
Ion Ratio Lower Upper

114 100

63 27.0 19.7 29.5

88 18.6 14.4 21.6





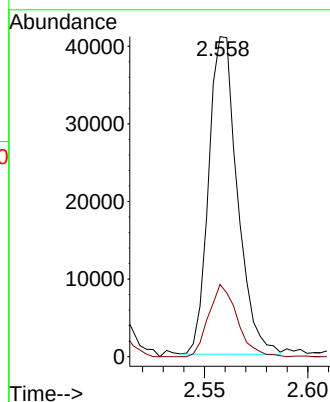
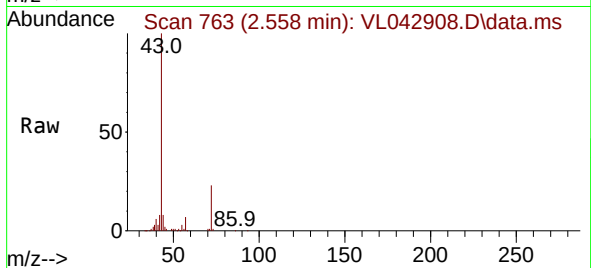
#34
2-Butanone
Concen: 1.644 ppbv
RT: 2.558 min Scan# 70
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 3958
Ion Ratio Lower Upper
43 100
72 22.7 18.6 28.0

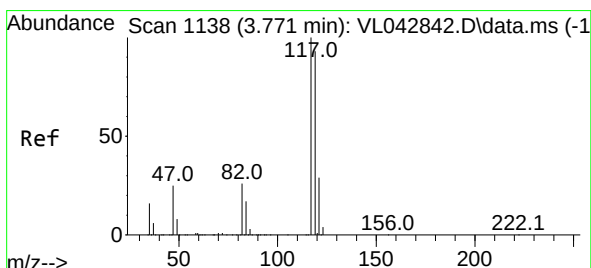
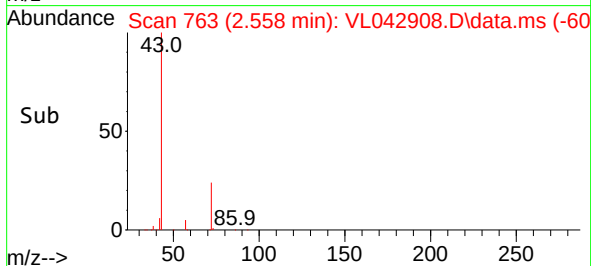
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Yesilyurt



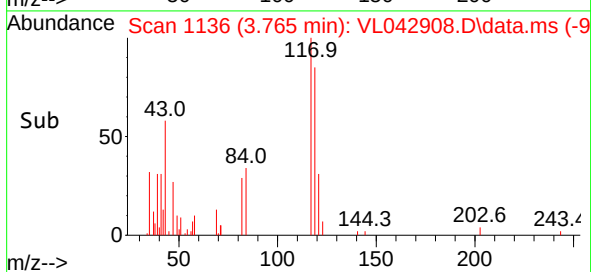
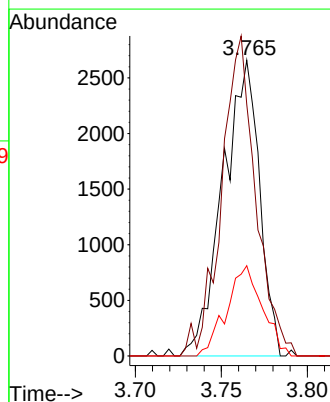
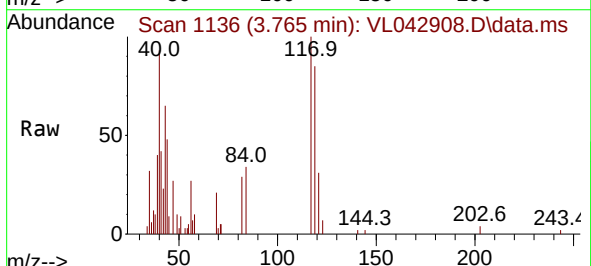
09/09/2025
Supervised By :Mahesh
Dadoda

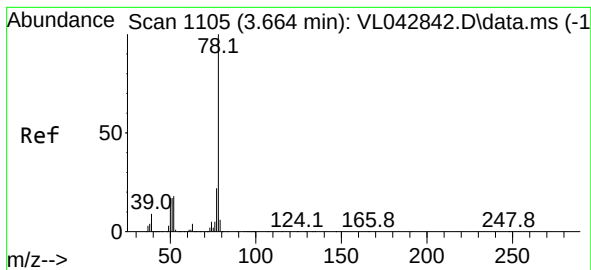
09/11/2025



#35
Carbon Tetrachloride
Concen: 0.160 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. 0.016 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:117 Resp: 3946
Ion Ratio Lower Upper
117 100
119 85.0 74.7 112.1
121 30.5 23.2 34.8





#36

Benzene

Concen: 0.362 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.013 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

Instrument :

MSVOA_L

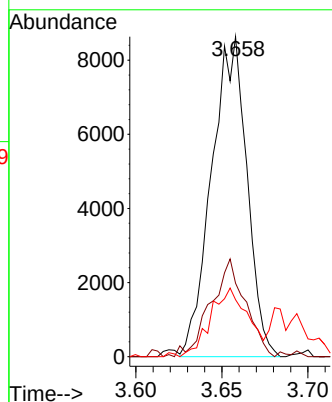
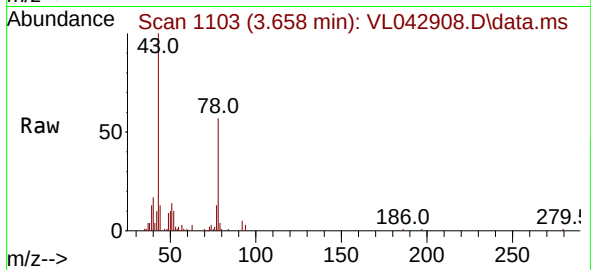
ClientSampleId :

IA1

Tgt Ion: 78	Resp: 1236
Ion Ratio	Lower Upper
78 100	
77 21.4	17.7 26.5
50 17.8	13.9 20.9

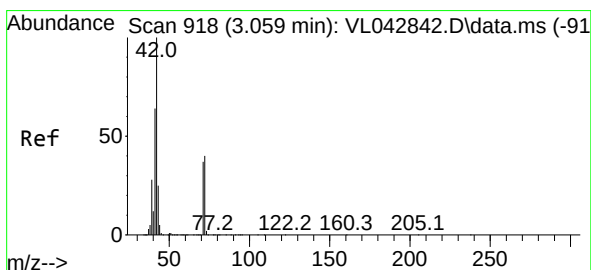
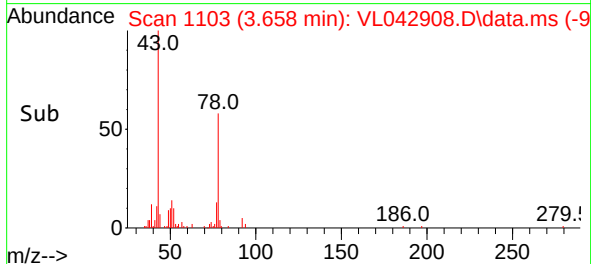
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



09/09/2025
Supervised By :Mahesh
Dadoda

09/11/2025



#41

Tetrahydrofuran

Concen: 0.249 ppbv

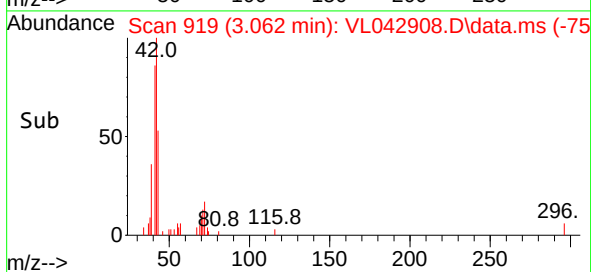
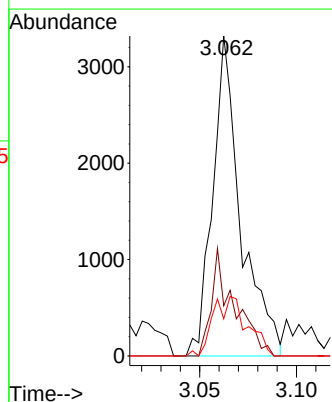
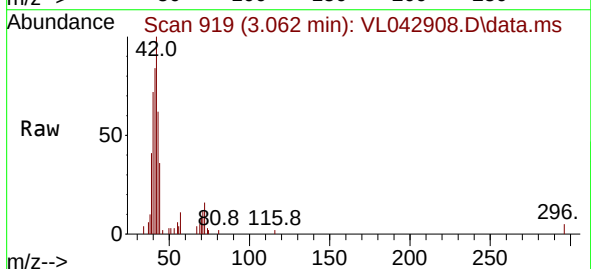
RT: 3.062 min Scan# 919

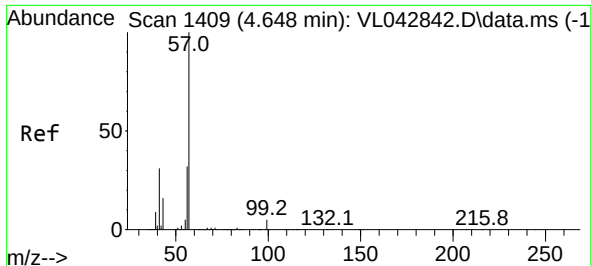
Delta R.T. 0.020 min

Lab File: VL042908.D

Acq: 08 Sep 2025 17:45

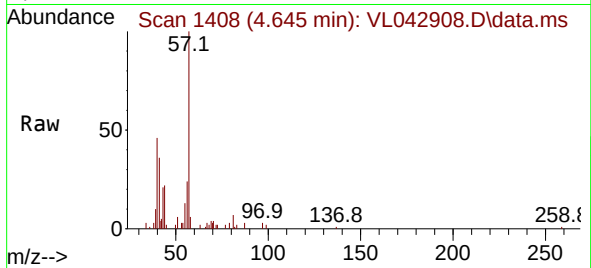
Tgt Ion: 42	Resp: 3346
Ion Ratio	Lower Upper
42 100	
72 27.4	32.6 48.8#
71 22.5	30.0 45.0#





#44
2,2,4-Trimethylpentane
Concen: 0.180 ppbv m
RT: 4.645 min Scan# 1409
Delta R.T. 0.023 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

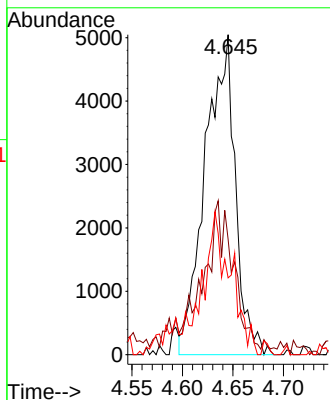
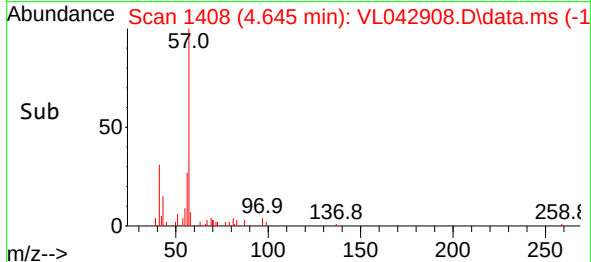
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 10459
Ion Ratio Lower Upper
57 100
41 49.1 24.8 37.2
56 49.2 25.5 38.3

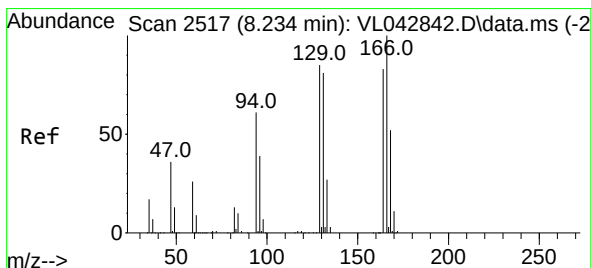
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



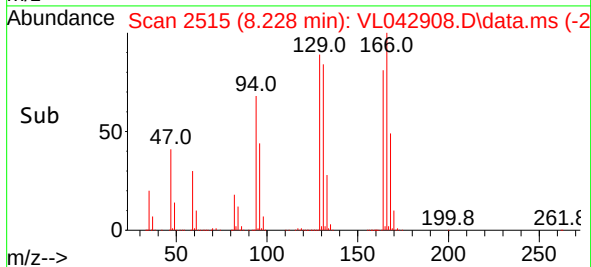
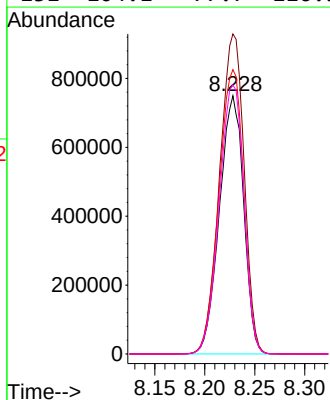
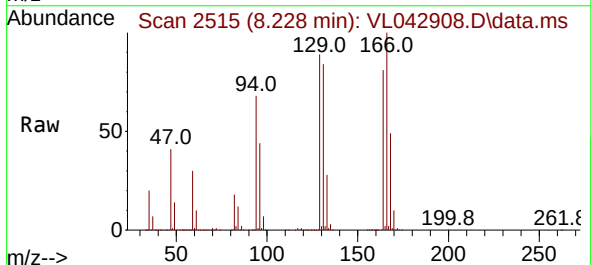
09/09/2025
Supervised By :Mahesh
Dadoda

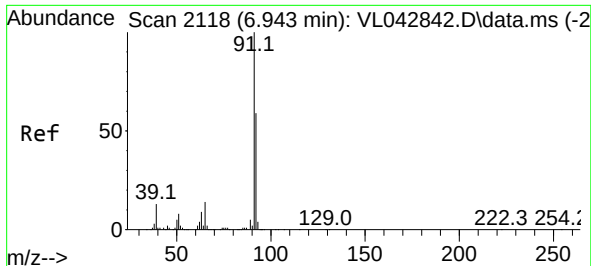
09/11/2025



#52
Tetrachloroethene
Concen: 102.158 ppbv
RT: 8.228 min Scan# 2515
Delta R.T. 0.016 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:164 Resp: 1262131
Ion Ratio Lower Upper
164 100
166 123.9 96.5 144.7
129 110.0 81.8 122.6
131 104.1 77.7 116.5





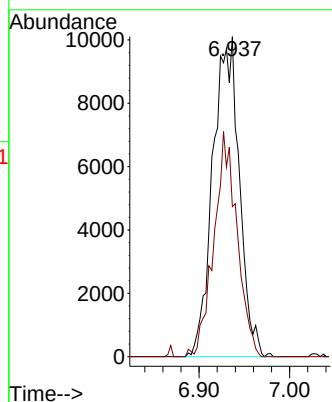
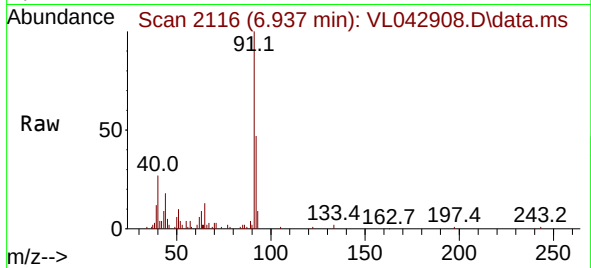
#53
Toluene
Concen: 0.505 ppbv m
RT: 6.937 min Scan# 2118
Delta R.T. 0.023 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 20494
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6

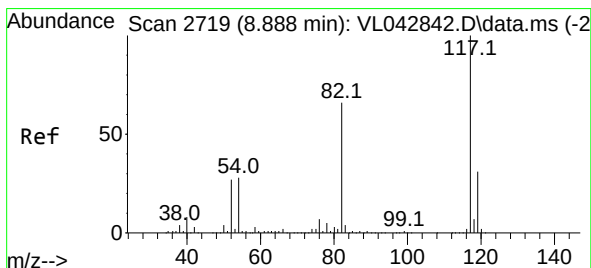
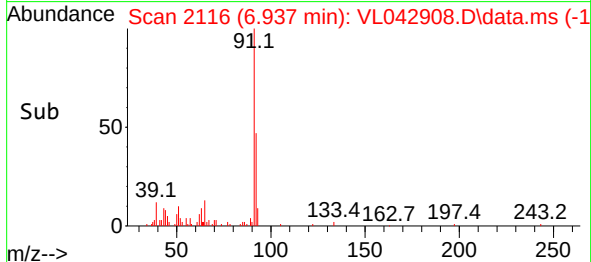
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



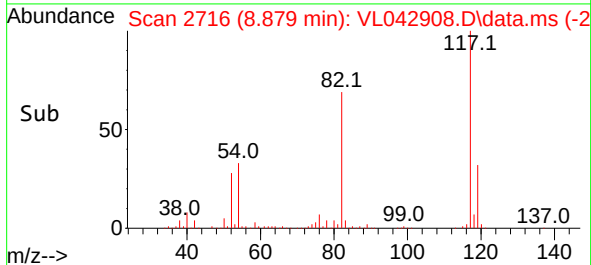
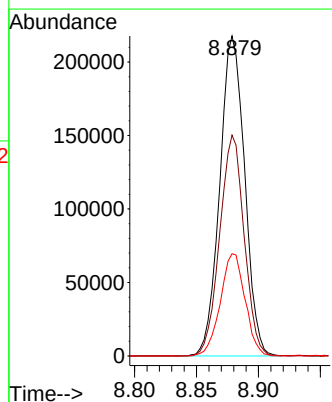
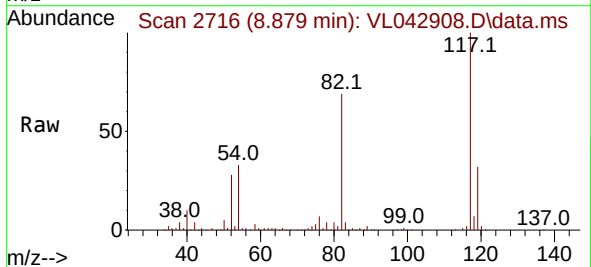
09/09/2025
Supervised By :Mahesh
Dadoda

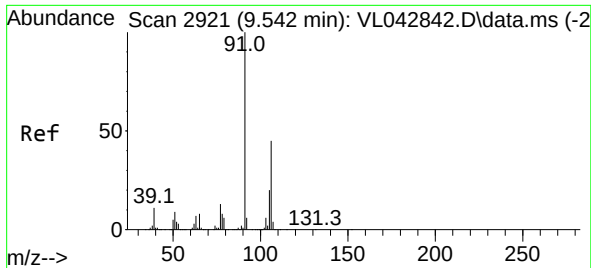
09/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:117 Resp: 304804
Ion Ratio Lower Upper
117 100
82 67.9 54.6 81.8
119 31.8 25.9 38.9





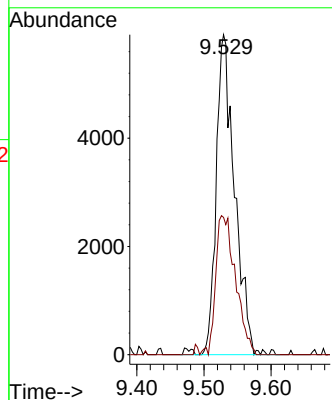
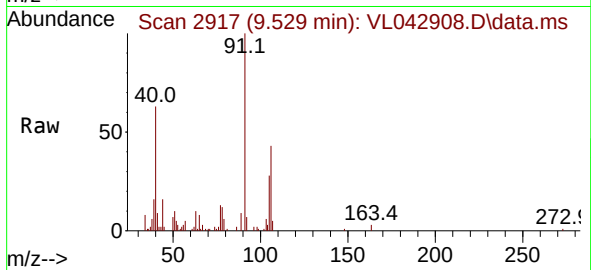
#59
m/p-Xylene
Concen: 0.268 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.009 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 11280
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

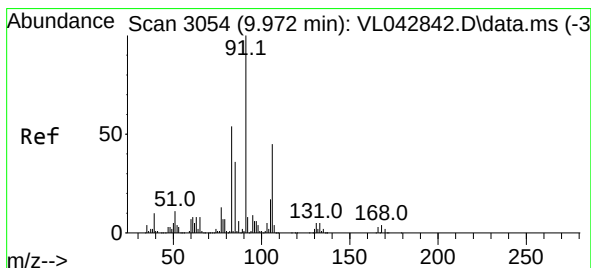
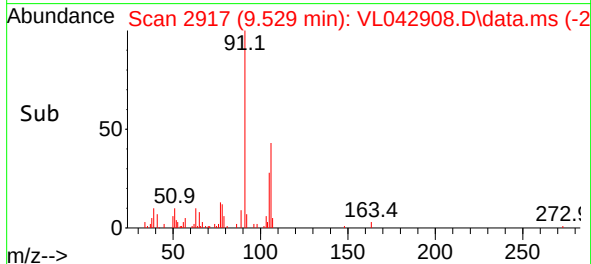
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



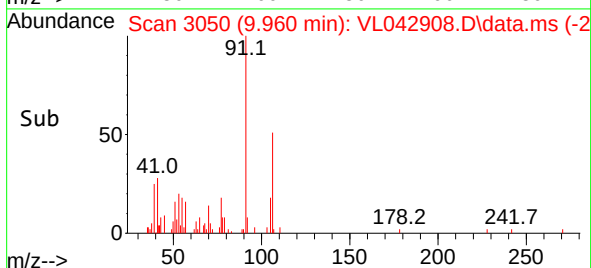
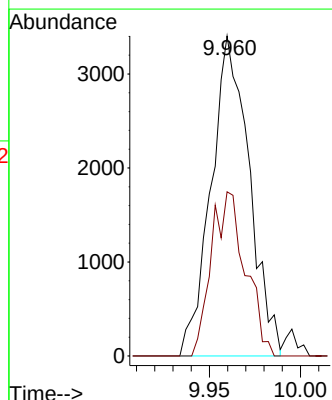
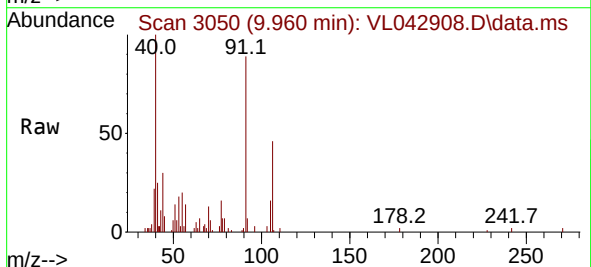
09/09/2025
Supervised By :Mahesh
Dadoda

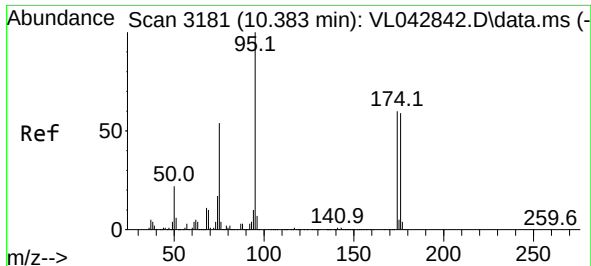
09/11/2025



#60
o-Xylene
Concen: 0.117 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. 0.007 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

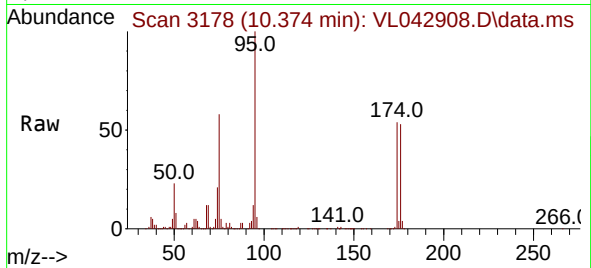
Tgt Ion: 91 Resp: 4961
Ion Ratio Lower Upper
91 100
106 45.8 21.8 65.4





#68
1-Bromo-4-Fluorobenzene
Concen: 10.050 ppbv
RT: 10.374 min Scan# 3181
Delta R.T. 0.010 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

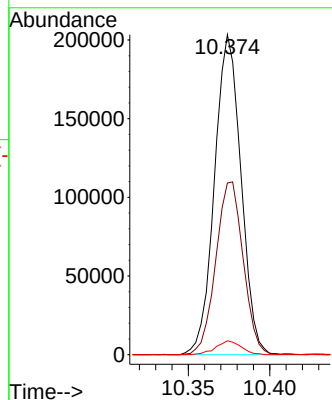
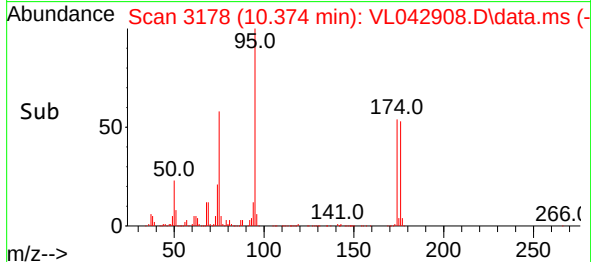
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 22974
Ion Ratio Lower Upper
95 100
174 56.0 48.4 72.6
175 4.2 3.8 5.8

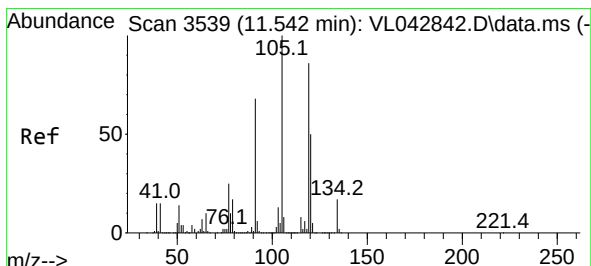
Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt



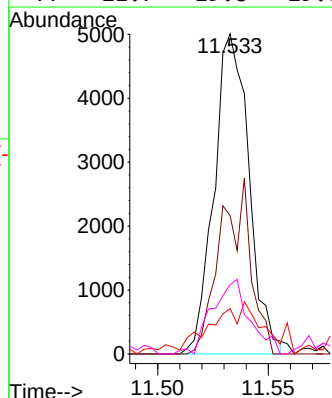
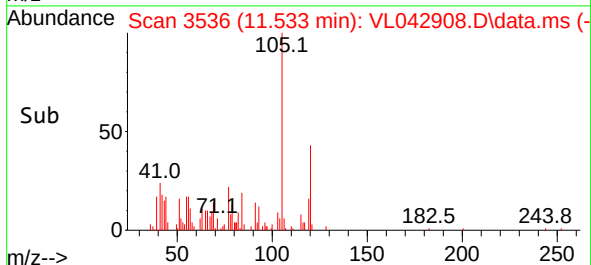
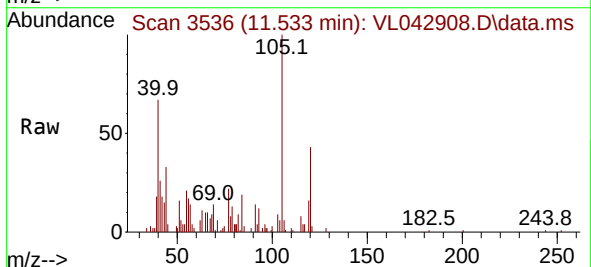
09/09/2025
Supervised By :Mahesh
Dadoda

09/11/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.115 ppbv
RT: 11.533 min Scan# 3536
Delta R.T. 0.003 min
Lab File: VL042908.D
Acq: 08 Sep 2025 17:45

Tgt Ion:105 Resp: 5497
Ion Ratio Lower Upper
105 100
120 46.2 39.8 59.6
91 11.1 54.2 81.4#
77 21.7 19.8 29.6



Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	IA1DL	SDG No.:	Q3052
Lab Sample ID:	Q3052-03DL	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
VL042913.D	20		09/08/25 21:08	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.50	1.28	UD	1.28	1.53	ug/m3
156-60-5	trans-1,2-Dichloroethene	2.40	9.52	UD	9.52	39.6	ug/m3
75-34-3	1,1-Dichloroethane	2.60	10.5	UD	10.5	40.5	ug/m3
156-59-2	cis-1,2-Dichloroethene	2.00	7.93	UD	7.93	39.6	ug/m3
71-55-6	1,1,1-Trichloroethane	0.32	1.75	UD	1.75	3.27	ug/m3
107-06-2	1,2-Dichloroethane	1.90	7.69	UD	7.69	40.5	ug/m3
79-01-6	Trichloroethene	0.48	2.58	UD	2.58	3.22	ug/m3
127-18-4	Tetrachloroethene	100	678	D	2.03	4.07	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	132000		2.784			
540-36-3	1,4-Difluorobenzene	323000		3.955			
3114-55-4	Chlorobenzene-d5	272000		8.878			

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\VL090825\
 Data File : VL042913.D
 Acq On : 08 Sep 2025 21:08
 Operator : SY/MD
 Sample : Q3052-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 01:00:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2025
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	132040	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	322758	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.878	117	271668	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	195379	9.589	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	668	0.035	ppbv	90
3) Chlorodifluoromethane	1.473	51	2494m	0.117	ppbv	
4) Chloromethane	1.531	50	2086	0.267	ppbv	92
9) Propene	1.483	41	3238m	0.351	ppbv	
13) Ethanol	1.719	45	330005	390.702	ppbv	90
15) Acetone	1.835	43	15233	0.872	ppbv	94
19) Isopropyl Alcohol	1.884	45	41906	4.017	ppbv #	38
20) Methylene Chloride	2.062	84	2308	0.315	ppbv #	78
25) Ethyl Acetate	2.836	43	4625	0.109	ppbv #	95
52) Tetrachloroethene	8.221	164	57004	5.098	ppbv	95

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

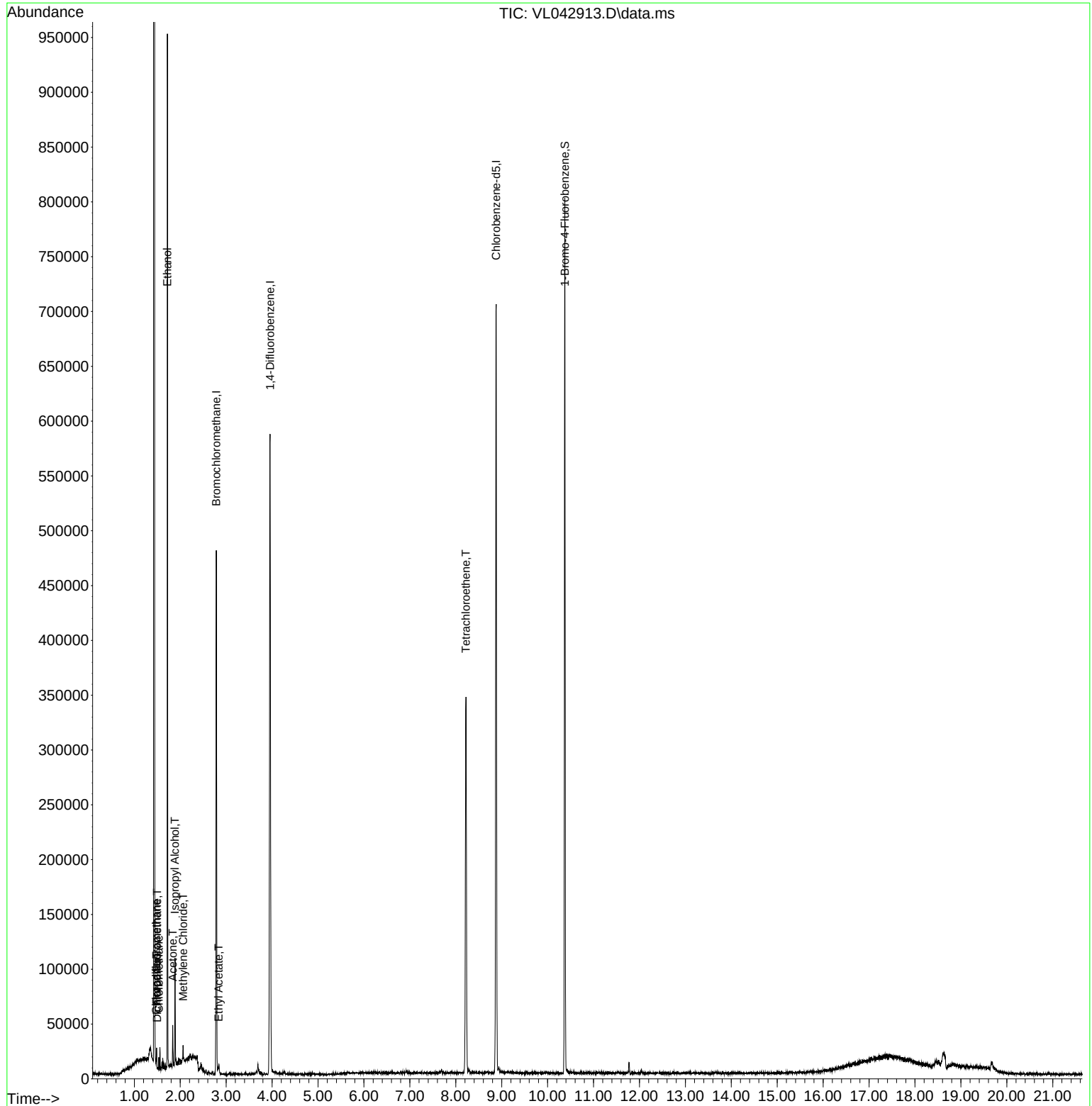
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042913.D
Acq On : 08 Sep 2025 21:08
Operator : SY/MD
Sample : Q3052-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

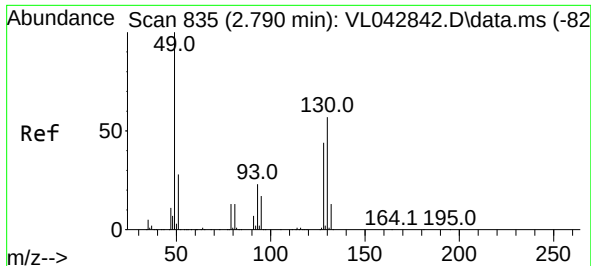
Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

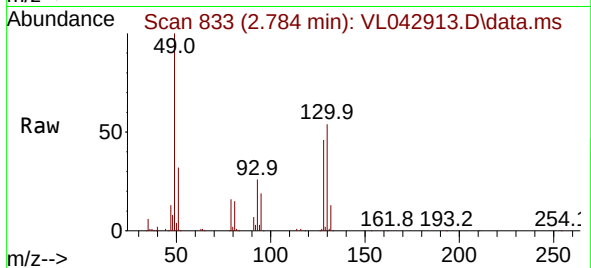
Quant Time: Sep 09 01:00:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 811
Delta R.T. 0.007 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

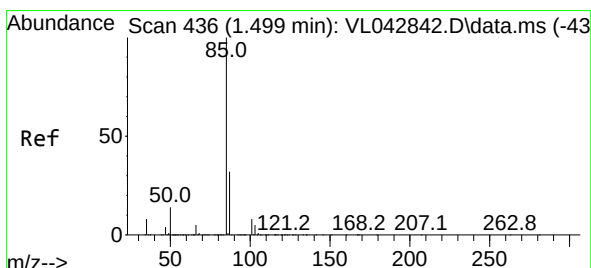
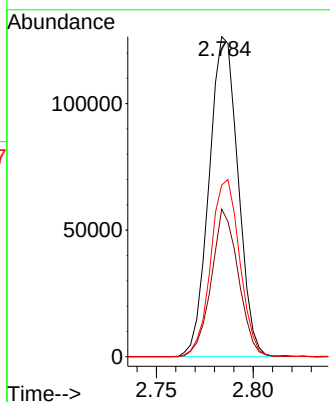
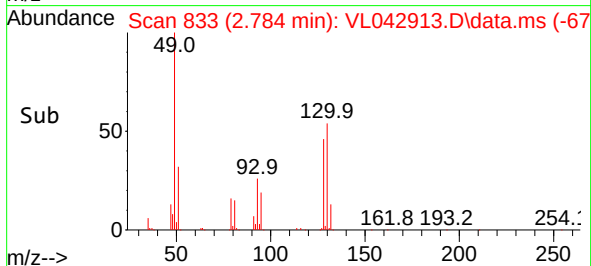
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion: 49 Resp: 132040
Ion Ratio Lower Upper
49 100
128 43.0 23.7 71.1
130 55.1 30.6 91.6

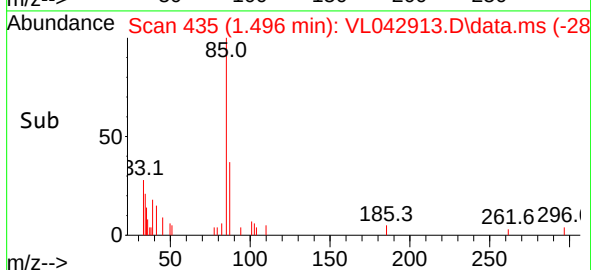
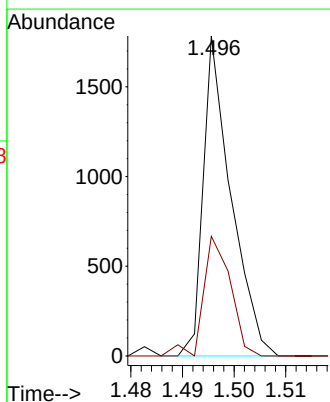
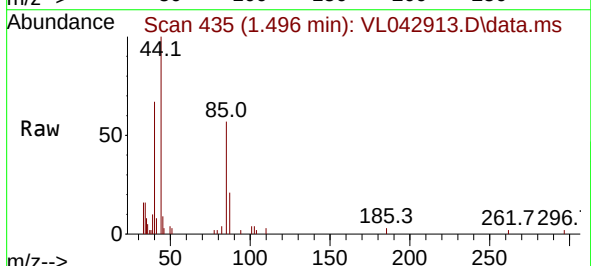
Manual Integrations
APPROVED

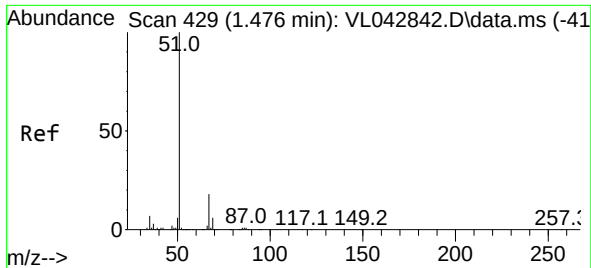
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.035 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 85 Resp: 668
Ion Ratio Lower Upper
85 100
87 37.4 25.3 37.9





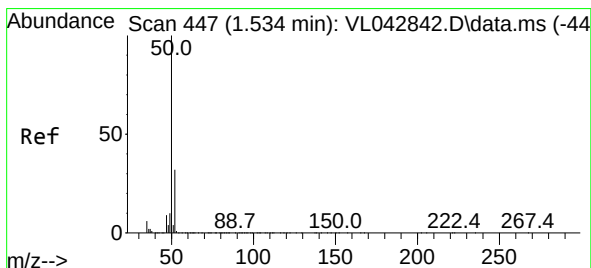
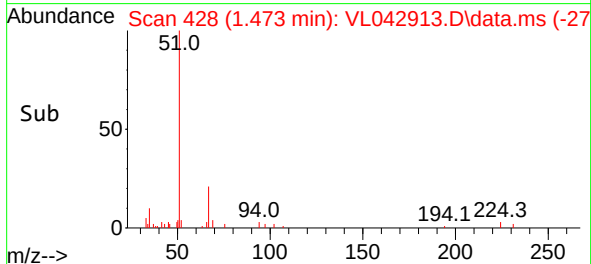
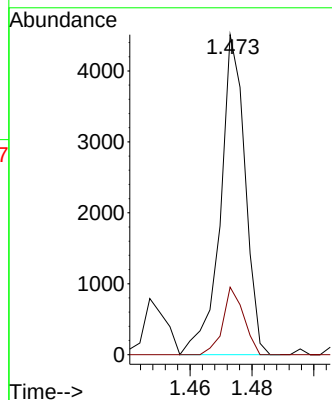
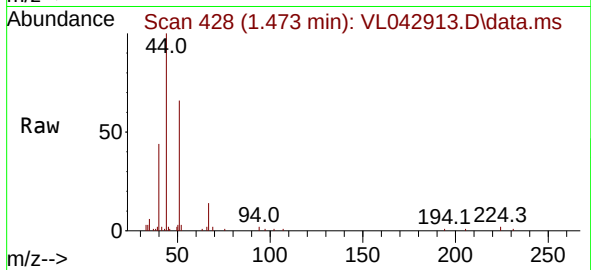
#3
Chlorodifluoromethane
Concen: 0.117 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Instrument :
MSVOA_L
ClientSampleId :
IA1DL

Tgt Ion: 51 Resp: 2494
Ion Ratio Lower Upper
51 100
67 1.3 14.9 22.3

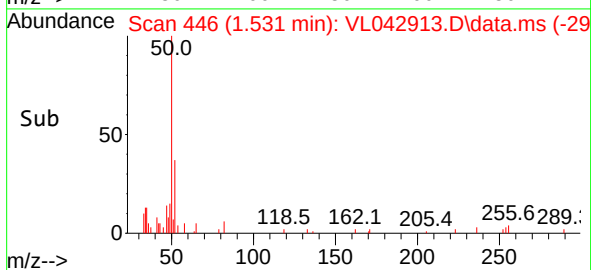
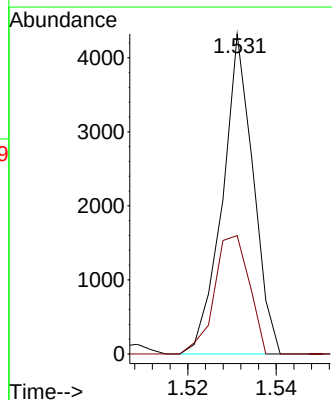
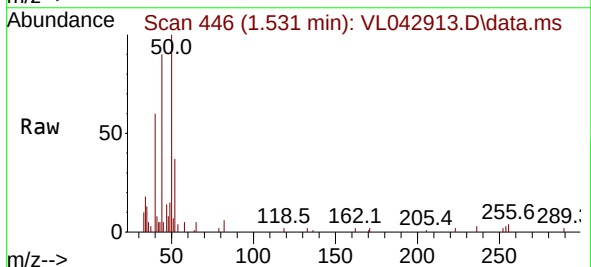
Manual Integrations
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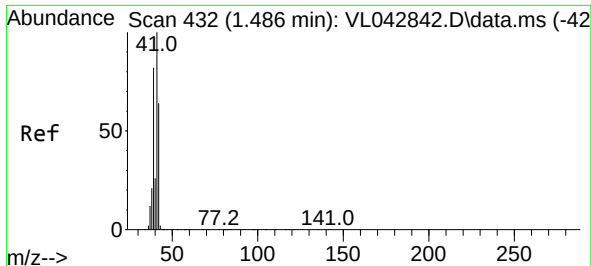
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.267 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 50 Resp: 2086
Ion Ratio Lower Upper
50 100
52 37.0 25.9 38.9





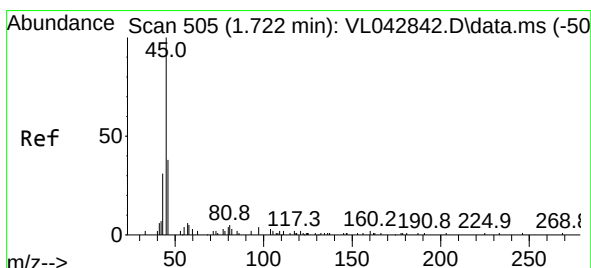
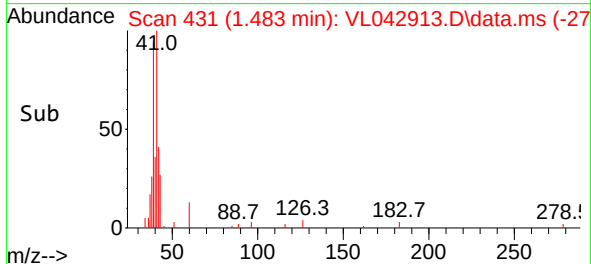
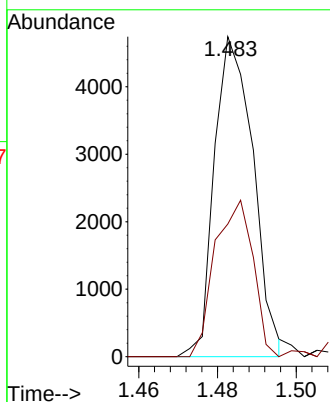
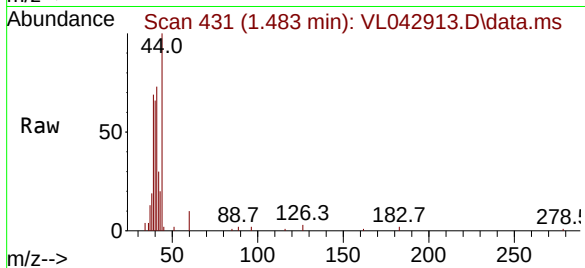
#9
 Propene
 Concen: 0.351 ppbv m
 RT: 1.483 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042913.D
 Acq: 08 Sep 2025 21:08

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Tgt Ion: 41 Resp: 3238
 Ion Ratio Lower Upper
 41 100
 42 99.3 53.0 79.4

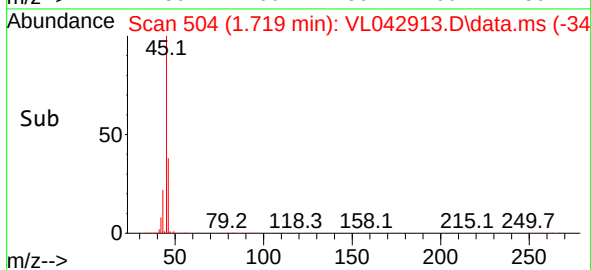
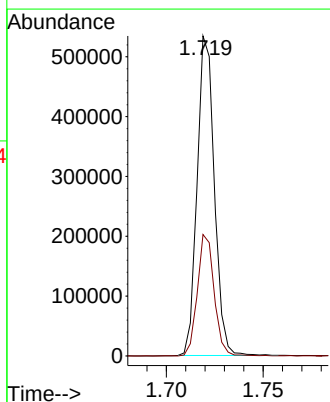
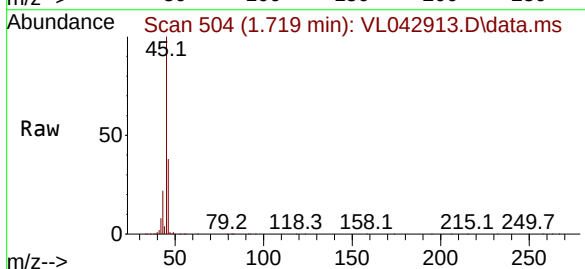
Manual Integrations
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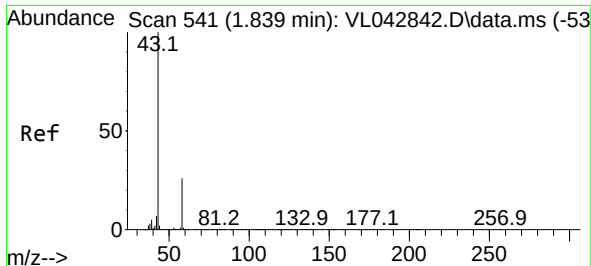
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#13
 Ethanol
 Concen: 390.702 ppbv
 RT: 1.719 min Scan# 504
 Delta R.T. 0.003 min
 Lab File: VL042913.D
 Acq: 08 Sep 2025 21:08

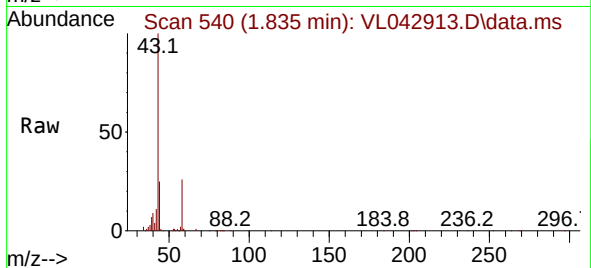
Tgt Ion: 45 Resp: 330005
 Ion Ratio Lower Upper
 45 100
 46 37.5 17.5 69.9





#15
Acetone
Concen: 0.872 ppbv
RT: 1.835 min Scan# 541
Delta R.T. 0.006 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

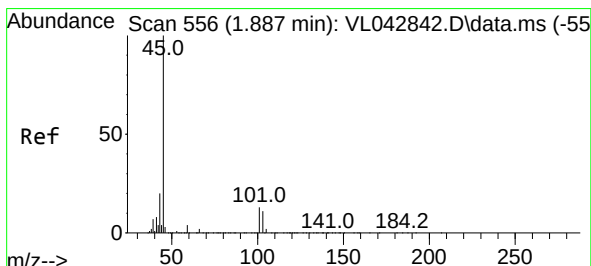
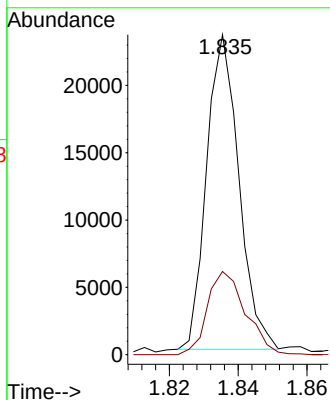
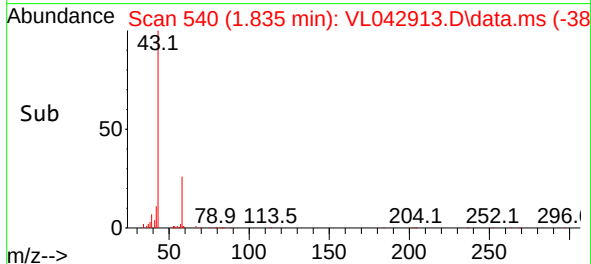
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



Tgt Ion: 43 Resp: 1523
Ion Ratio Lower Upper
43 100
58 31.3 22.4 33.6

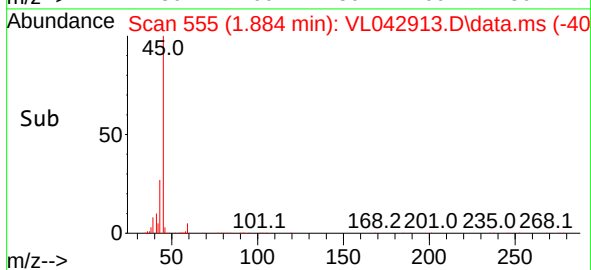
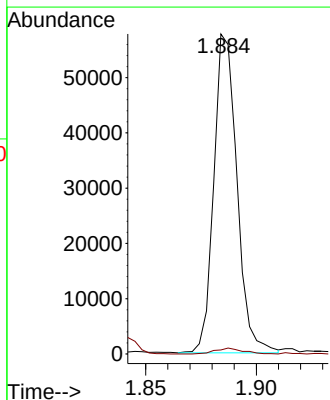
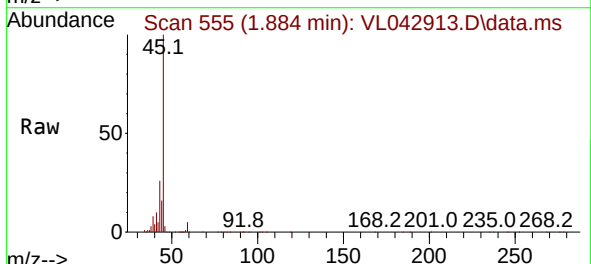
Manual Integrations
APPROVED

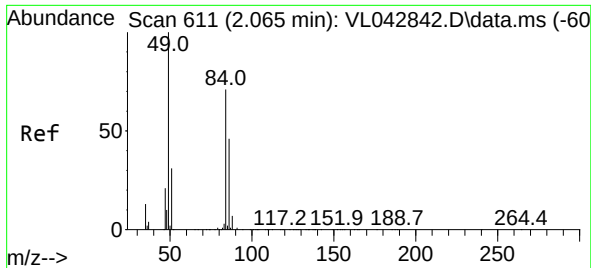
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#19
Isopropyl Alcohol
Concen: 4.017 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.003 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

Tgt Ion: 45 Resp: 41906
Ion Ratio Lower Upper
45 100
58 2.4 32.7 49.1#





#20

Methylene Chloride

Concen: 0.315 ppbv

RT: 2.062 min Scan# 611

Delta R.T. 0.006 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

Tgt Ion: 84 Resp: 2308

Ion Ratio Lower Upper

84 100

49 171.4 112.3 168.5

51 40.7 36.0 54.0

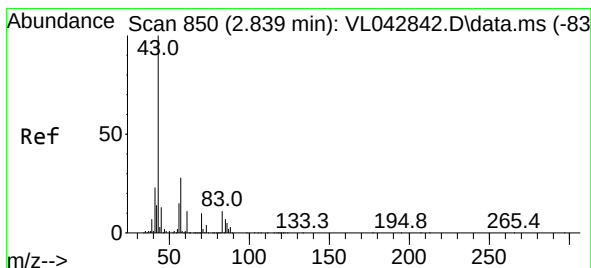
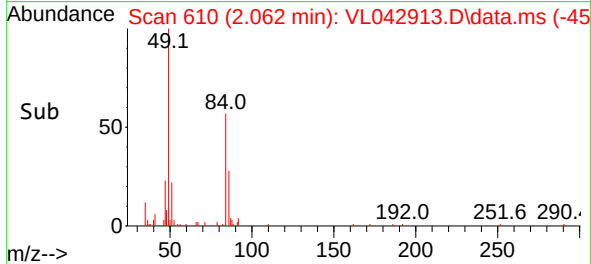
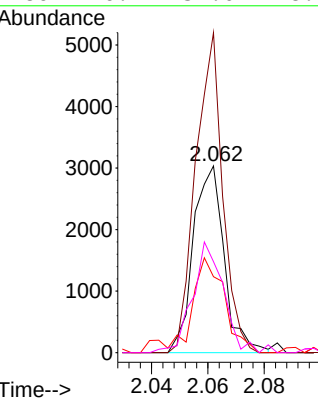
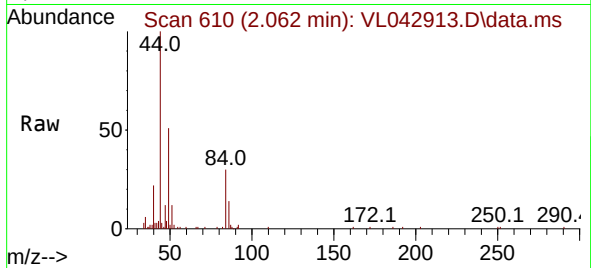
86 46.2 52.0 78.0#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#25

Ethyl Acetate

Concen: 0.109 ppbv

RT: 2.836 min Scan# 849

Delta R.T. 0.010 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Tgt Ion: 43 Resp: 4625

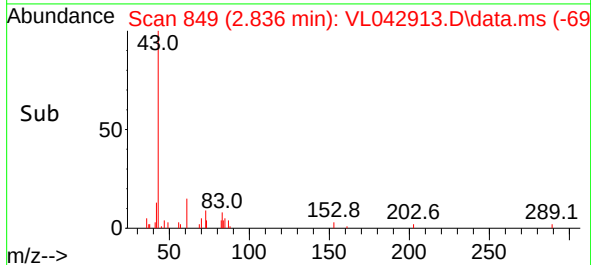
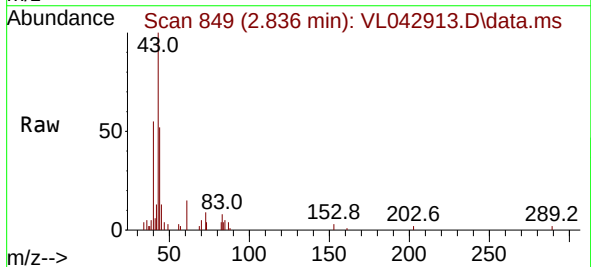
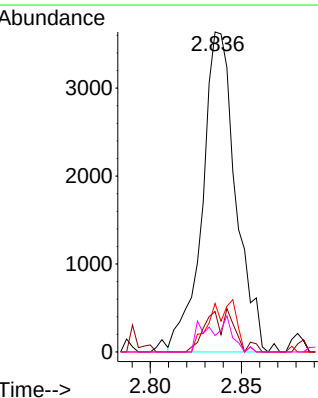
Ion Ratio Lower Upper

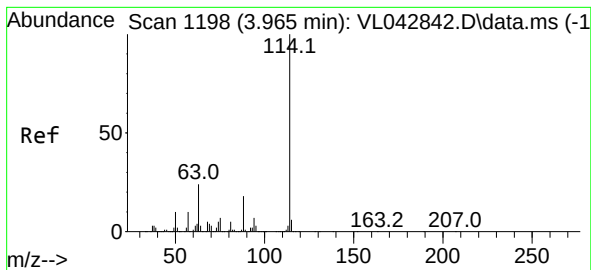
43 100

45 11.3 8.1 12.1

61 13.0 7.4 11.2#

70 8.5 7.3 10.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.955 min Scan# 1195

Delta R.T. 0.013 min

Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Instrument :

MSVOA_L

ClientSampleId :

IA1DL

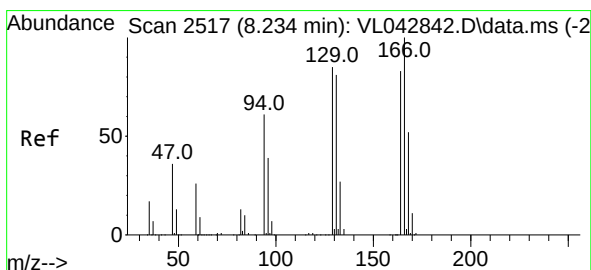
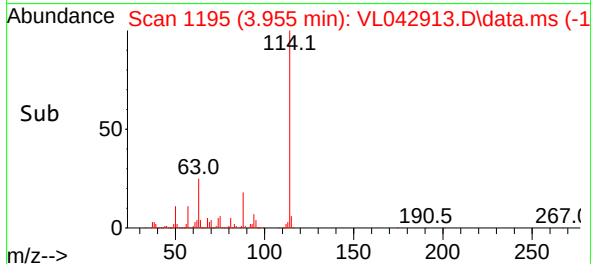
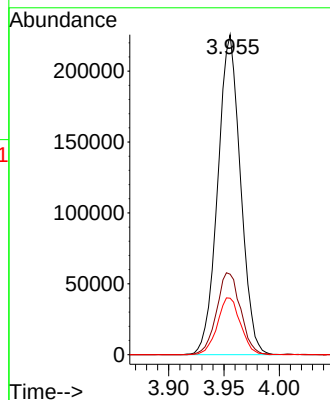
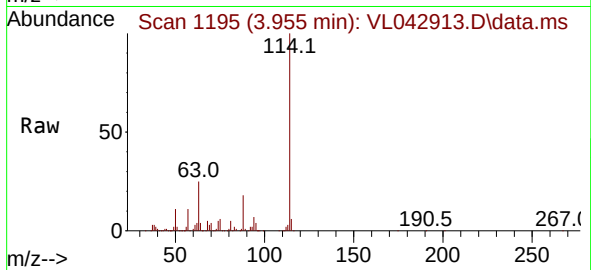
Tgt Ion:114 Resp: 32275

Ion	Ratio	Lower	Upper
114	100		
63	26.9	19.7	29.5
88	18.1	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#52

Tetrachloroethene

Concen: 5.098 ppbv

RT: 8.221 min Scan# 2513

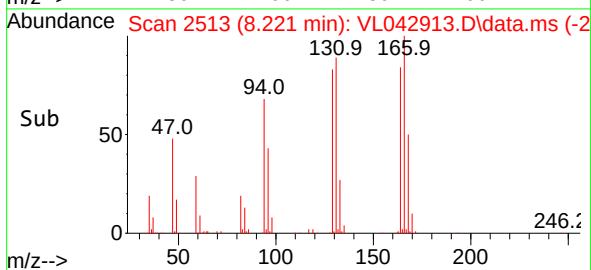
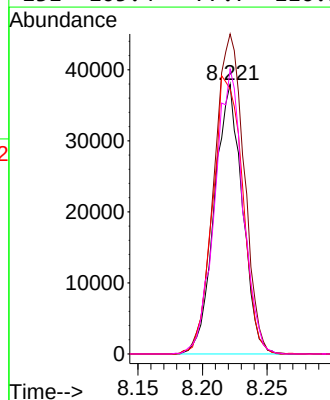
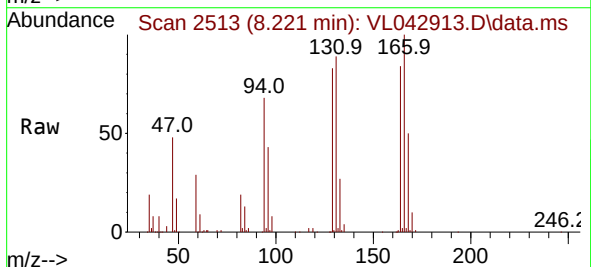
Delta R.T. 0.010 min

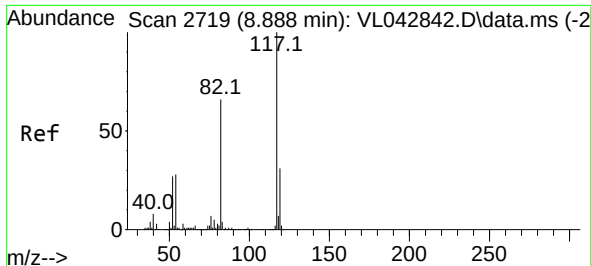
Lab File: VL042913.D

Acq: 08 Sep 2025 21:08

Tgt Ion:164 Resp: 57004

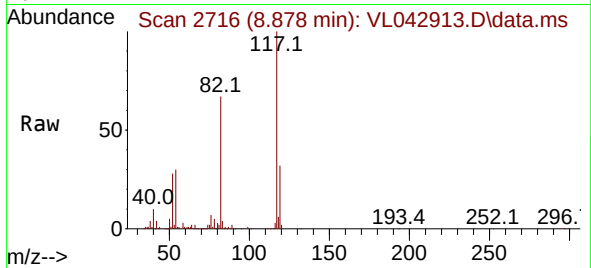
Ion	Ratio	Lower	Upper
164	100		
166	118.3	96.5	144.7
129	98.3	81.8	122.6
131	105.4	77.7	116.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08

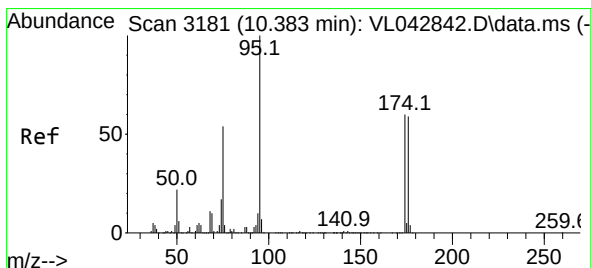
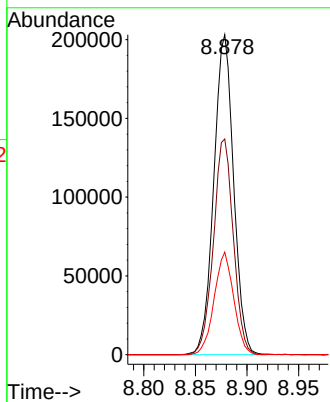
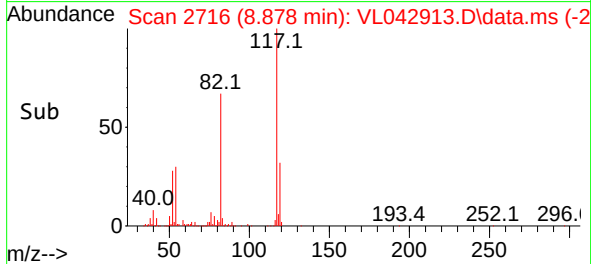
Instrument :
MSVOA_L
ClientSampleId :
IA1DL



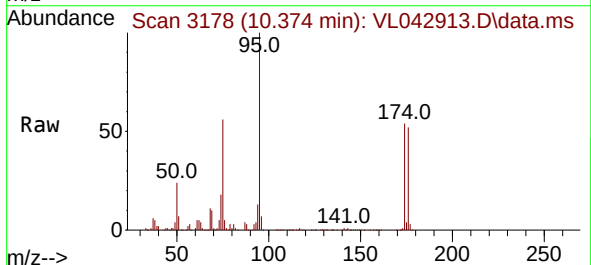
Tgt Ion: 117 Resp: 271668
Ion Ratio Lower Upper
117 100
82 67.6 54.6 81.8
119 31.7 25.9 38.9

Manual Integrations
APPROVED

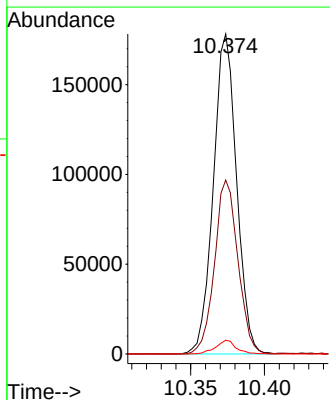
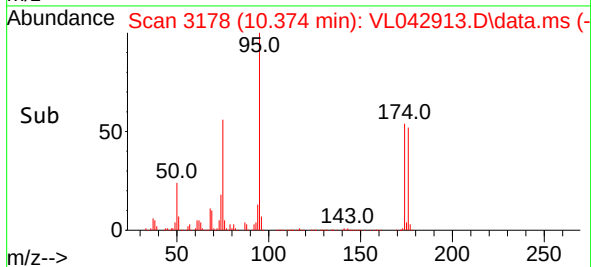
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.589 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042913.D
Acq: 08 Sep 2025 21:08



Tgt Ion: 95 Resp: 195379
Ion Ratio Lower Upper
95 100
174 55.1 48.4 72.6
175 3.8 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	09/06/25
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	09/08/25
Client Sample ID:	OA1	SDG No.:	Q3052
Lab Sample ID:	Q3052-04	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
VL042909.D	1		09/08/25 18:21	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	139000		2.781			
540-36-3	1,4-Difluorobenzene	343000		3.952			
3114-55-4	Chlorobenzene-d5	289000		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\VL090825\
 Data File : VL042909.D
 Acq On : 08 Sep 2025 18:21
 Operator : SY/MD
 Sample : Q3052-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:58:55 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	139372	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	343291	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	289088	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	215345	9.933	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	9893	0.484	ppbv	95
3) Chlorodifluoromethane	1.473	51	23114	1.024	ppbv	92
4) Chloromethane	1.528	50	4233	0.514	ppbv	94
9) Propene	1.479	41	7413	0.760	ppbv	95
11) Trichlorofluoromethane	1.874	101	4746	0.236	ppbv	93
13) Ethanol	1.719	45	15707	17.618	ppbv	100
15) Acetone	1.832	43	73089	3.964	ppbv	95
19) Isopropyl Alcohol	1.884	45	24154	2.193	ppbv #	44
20) Methylene Chloride	2.059	84	6484	0.840	ppbv	86
23) Vinyl Acetate	2.450	43	11529	0.455	ppbv #	91
26) Hexane	2.823	57	13897	0.675	ppbv #	41
34) 2-Butanone	2.557	43	9059	0.391	ppbv	95
35) Carbon Tetrachloride	3.755	117	2231m	0.094	ppbv	
36) Benzene	3.648	78	8823	0.268	ppbv #	91
44) 2,2,4-Trimethylpentane	4.635	57	10701m	0.192	ppbv	
53) Toluene	6.927	91	16132	0.413	ppbv	94
59) m/p-Xylene	9.529	91	7142m	0.179	ppbv	

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

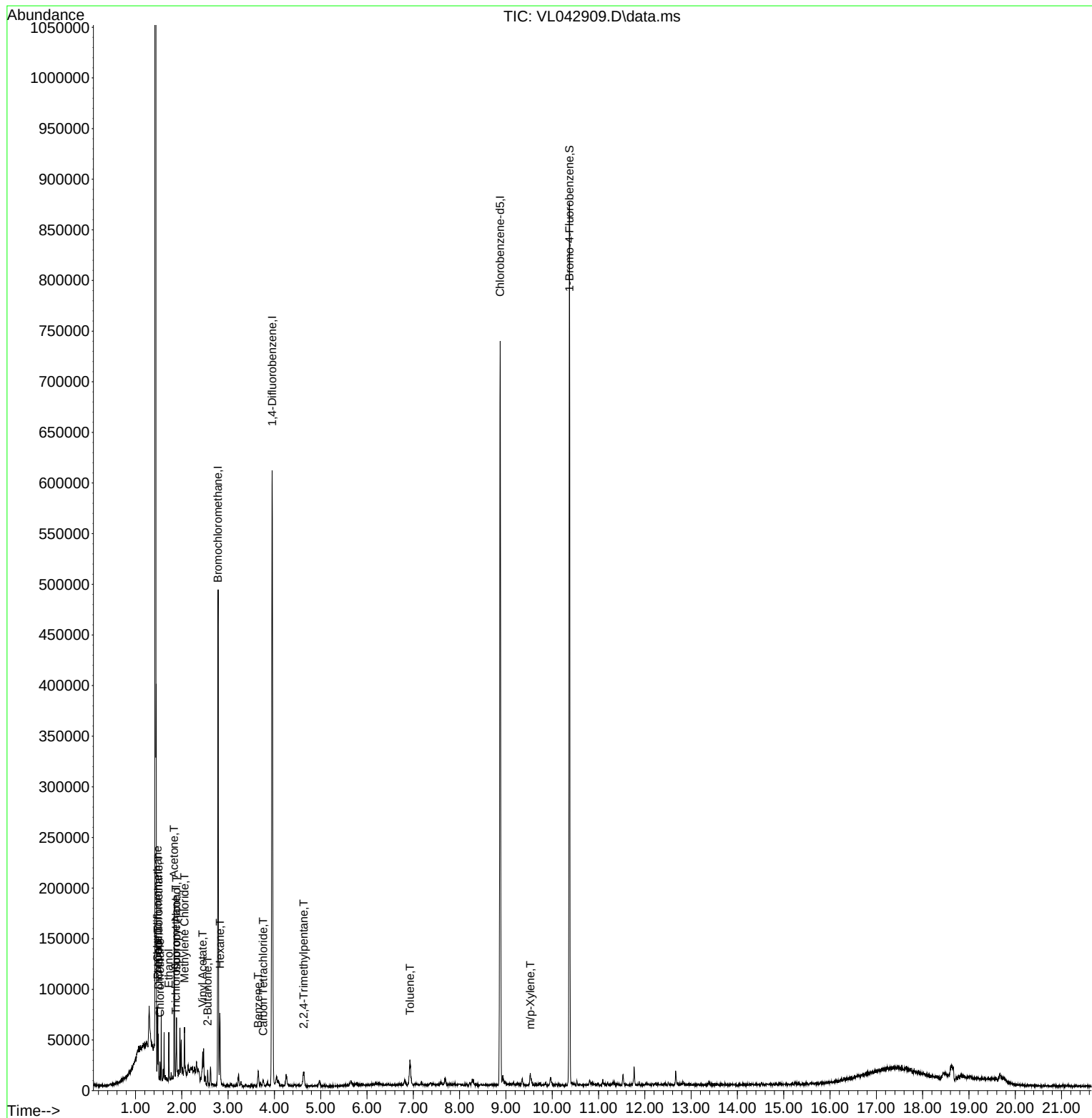
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042909.D
Acq On : 08 Sep 2025 18:21
Operator : SY/MD
Sample : Q3052-04
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

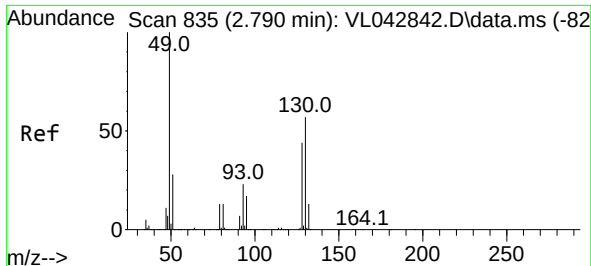
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Sep 09 00:58:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
Supervised By : Mahesh Dadoda 09/11/2025





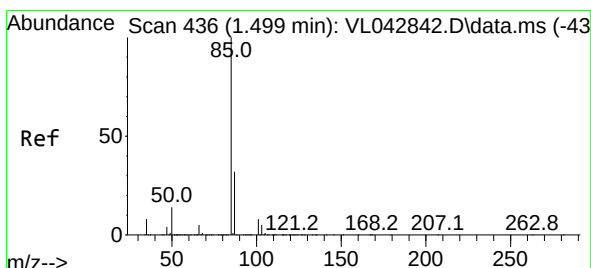
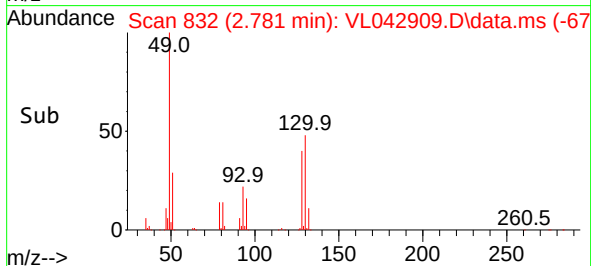
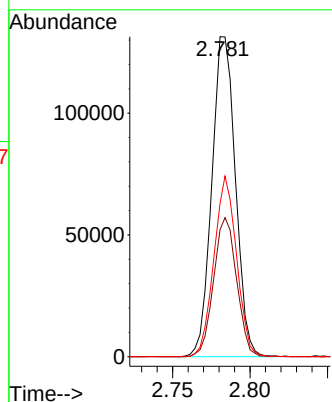
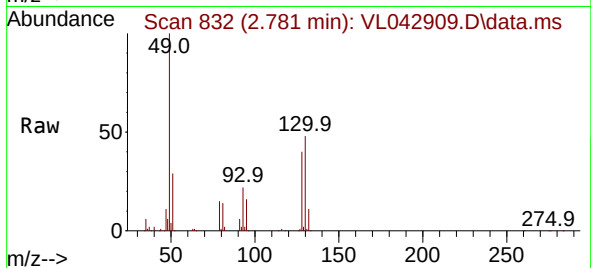
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. 0.004 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 139372
Ion Ratio Lower Upper
49 100
128 42.3 23.7 71.1
130 54.0 30.6 91.6

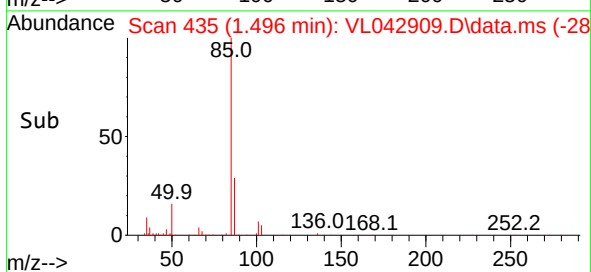
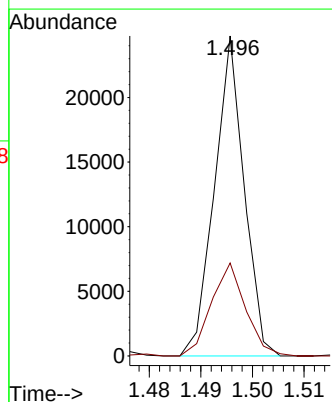
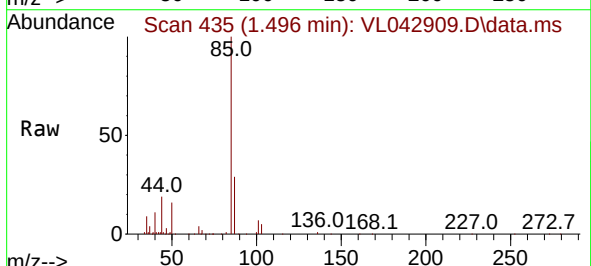
Manual Integrations
APPROVED

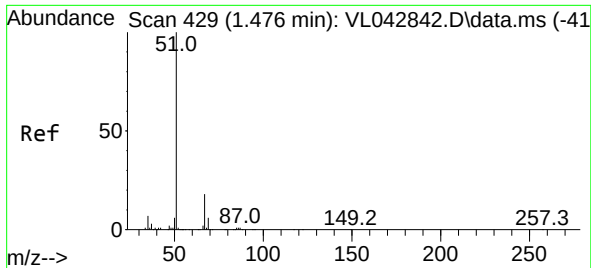
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#2
Dichlorodifluoromethane
Concen: 0.484 ppbv
RT: 1.496 min Scan# 435
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 85 Resp: 9893
Ion Ratio Lower Upper
85 100
87 29.1 25.3 37.9





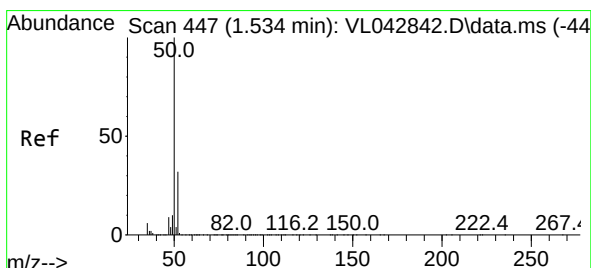
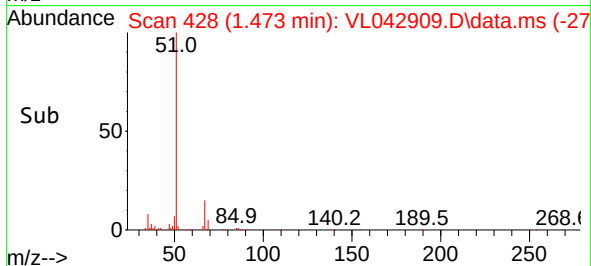
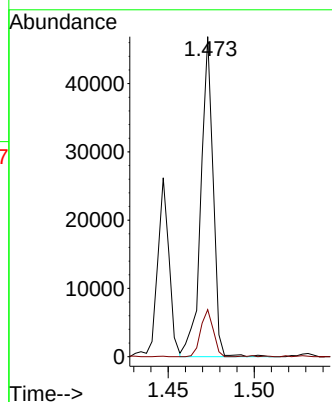
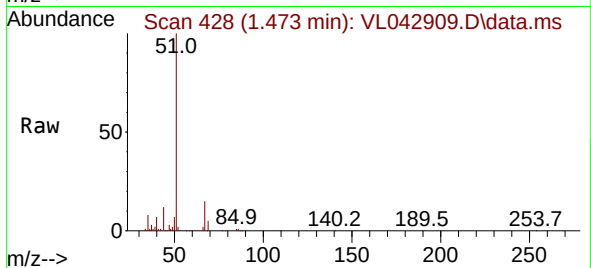
#3
Chlorodifluoromethane
Concen: 1.024 ppbv
RT: 1.473 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 23114
Ion Ratio Lower Upper
51 100
67 15.2 14.9 22.3

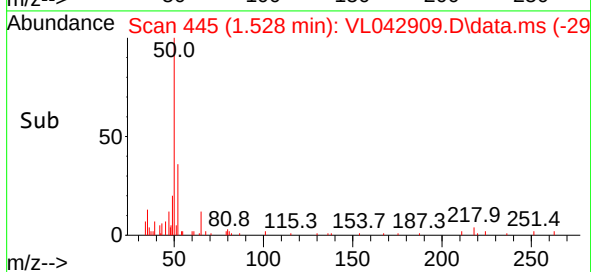
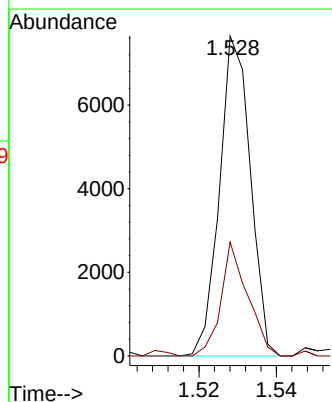
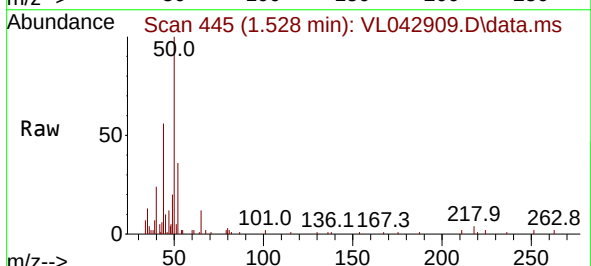
Manual Integrations
APPROVED

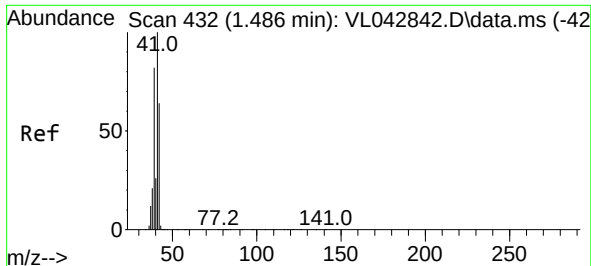
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#4
Chloromethane
Concen: 0.514 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.000 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

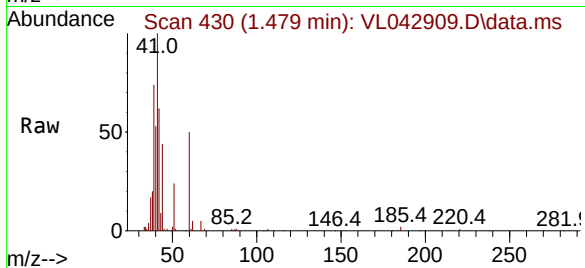
Tgt Ion: 50 Resp: 4233
Ion Ratio Lower Upper
50 100
52 35.6 25.9 38.9





#9
 Propene
 Concen: 0.760 ppbv
 RT: 1.479 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

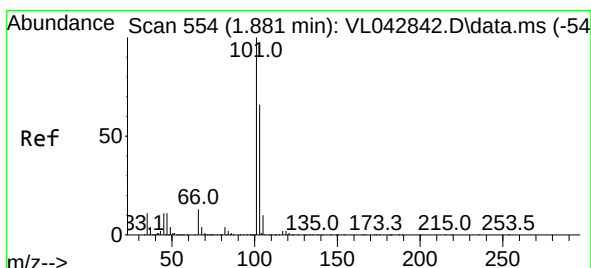
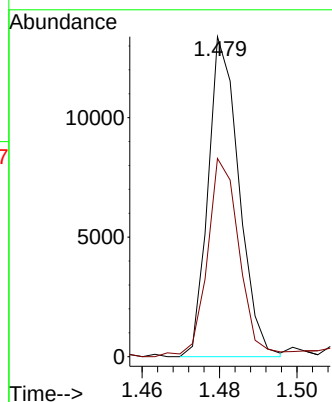
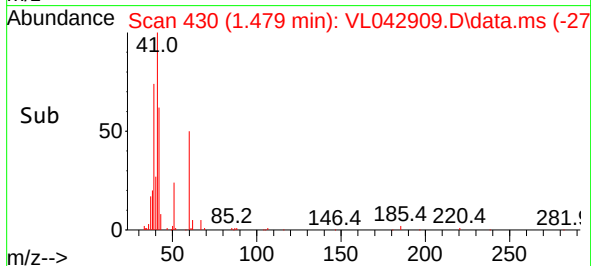
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



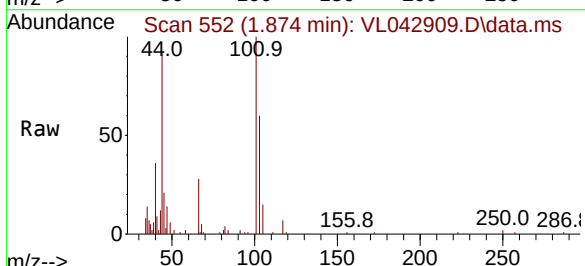
Tgt Ion: 41 Resp: 741
 Ion Ratio Lower Upper
 41 100
 42 70.5 53.0 79.4

Manual Integrations
 APPROVED

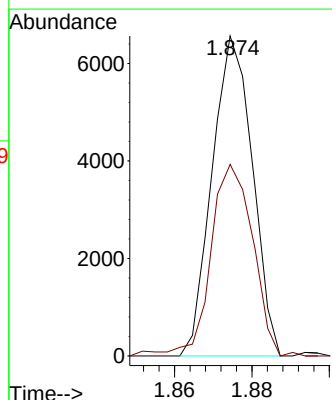
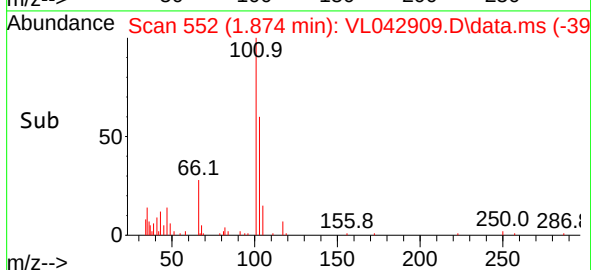
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

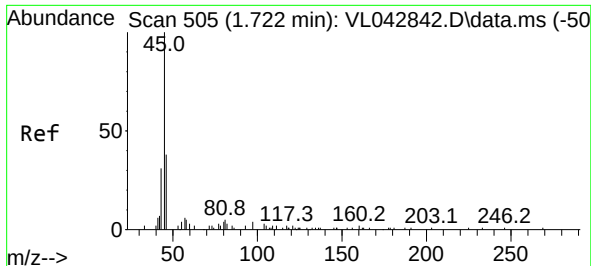


#11
 Trichlorofluoromethane
 Concen: 0.236 ppbv
 RT: 1.874 min Scan# 552
 Delta R.T. 0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21



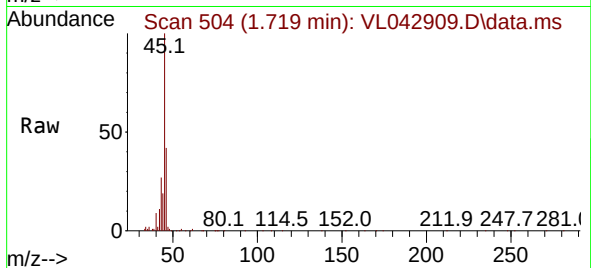
Tgt Ion:101 Resp: 4746
 Ion Ratio Lower Upper
 101 100
 103 59.9 52.5 78.7





#13
Ethanol
Concen: 17.618 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

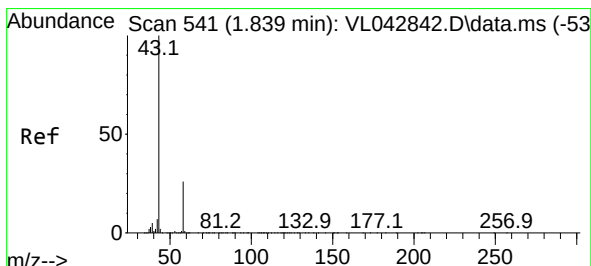
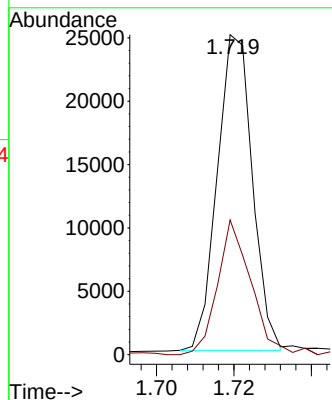
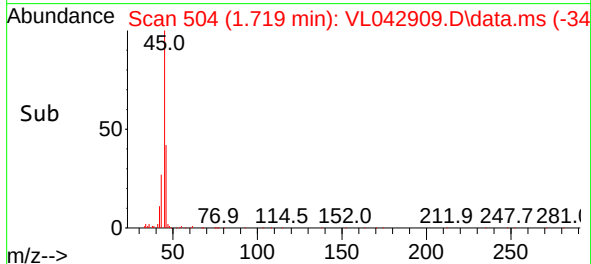
Instrument :
MSVOA_L
ClientSampleId :
OA1



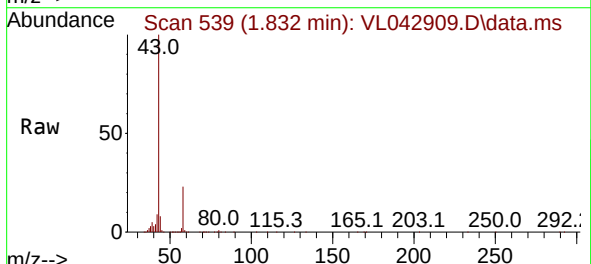
Tgt Ion: 45 Resp: 1570
Ion Ratio Lower Upper
45 100
46 43.4 17.5 69.9

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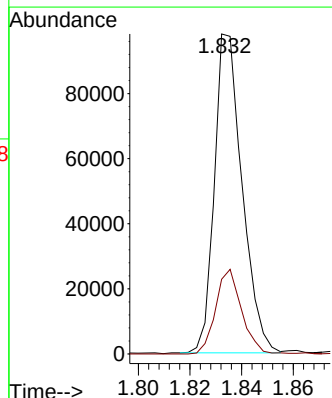
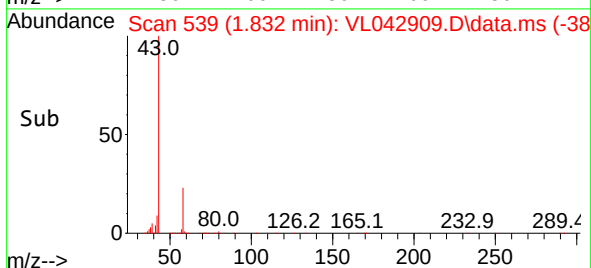
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025

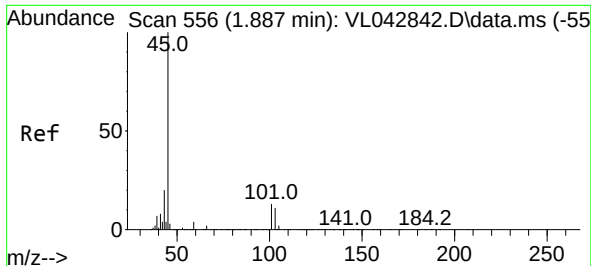


#15
Acetone
Concen: 3.964 ppbv
RT: 1.832 min Scan# 539
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21



Tgt Ion: 43 Resp: 73089
Ion Ratio Lower Upper
43 100
58 25.5 22.4 33.6





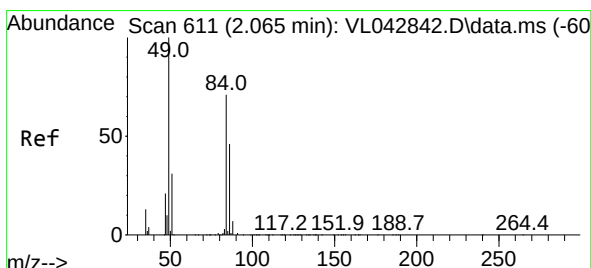
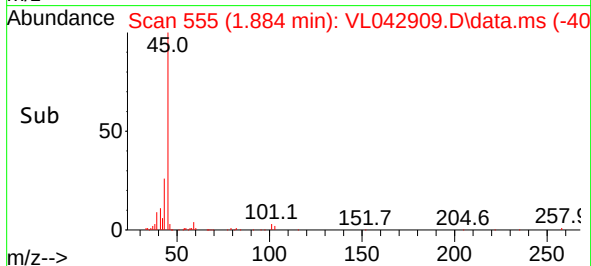
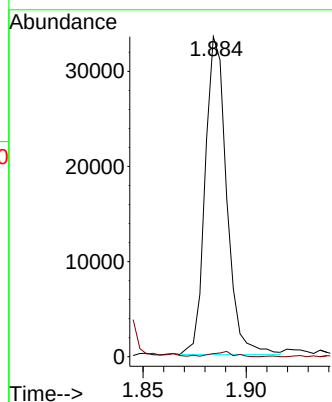
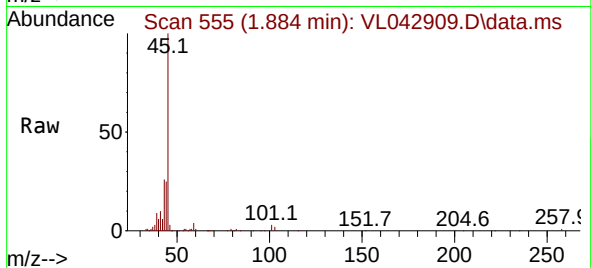
#19
Isopropyl Alcohol
Concen: 2.193 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 45 Resp: 24154
Ion Ratio Lower Upper
45 100
58 75.7 32.7 49.13

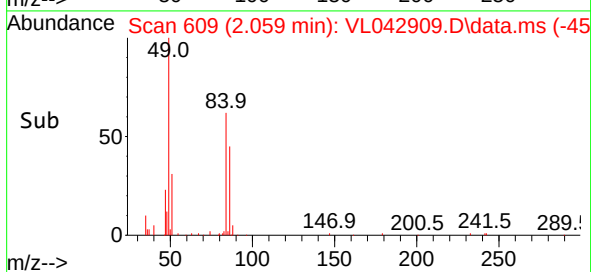
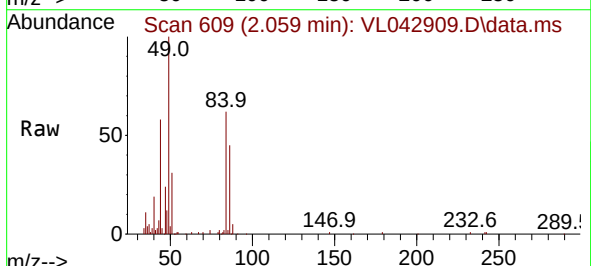
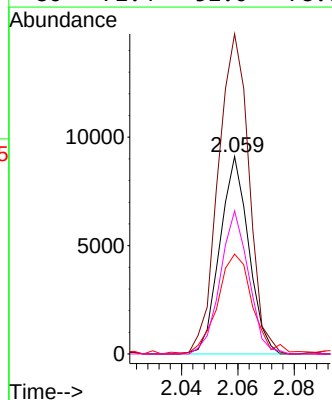
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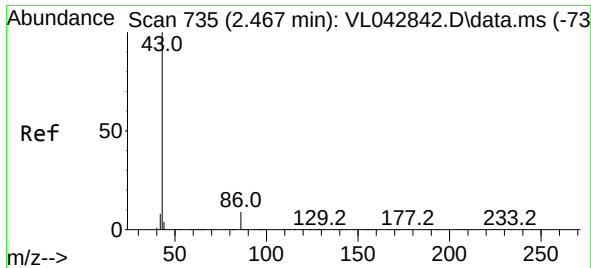
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#20
Methylene Chloride
Concen: 0.840 ppbv
RT: 2.059 min Scan# 609
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 84 Resp: 6484
Ion Ratio Lower Upper
84 100
49 162.1 112.3 168.5
51 50.0 36.0 54.0
86 72.4 52.0 78.0





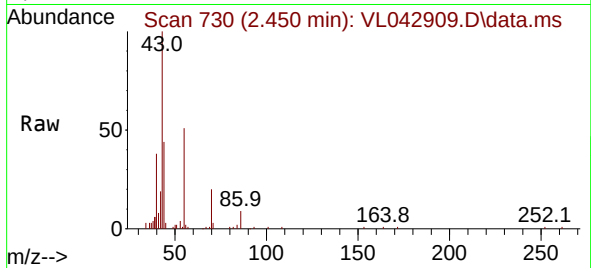
#23
 Vinyl Acetate
 Concen: 0.455 ppbv
 RT: 2.450 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

OA1

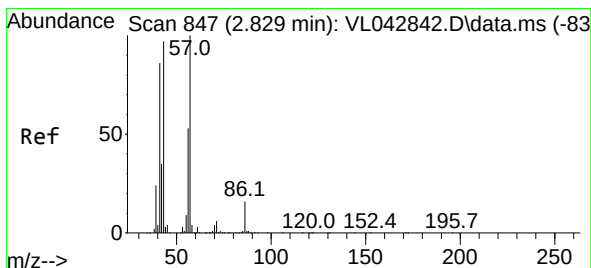
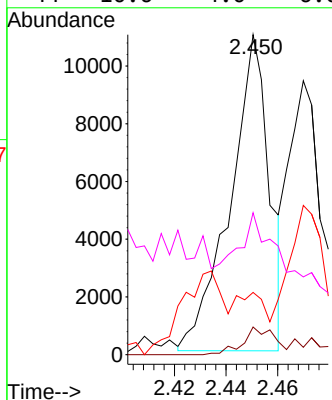
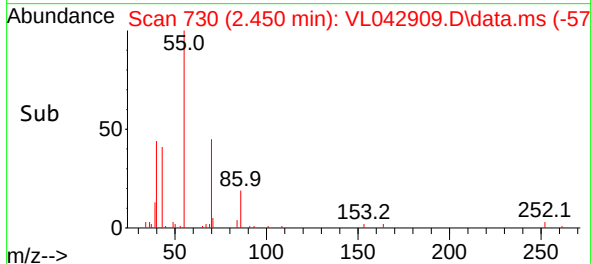


Tgt Ion: 43 Resp: 11529
 Ion Ratio Lower Upper
 43 100
 86 8.9 6.6 9.8
 42 4.4 7.0 10.6
 44 10.6 4.0 6.0#

Manual Integrations

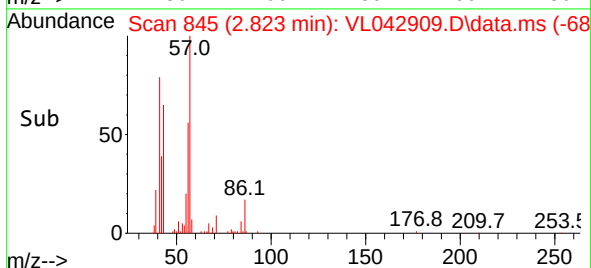
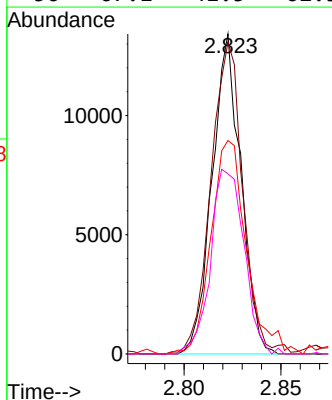
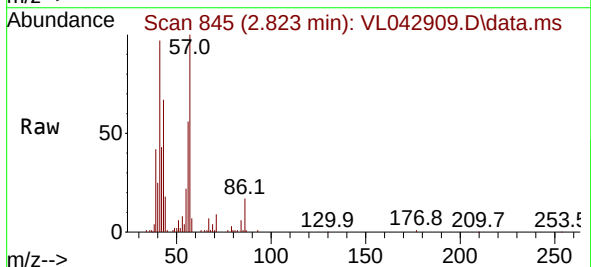
APPROVED

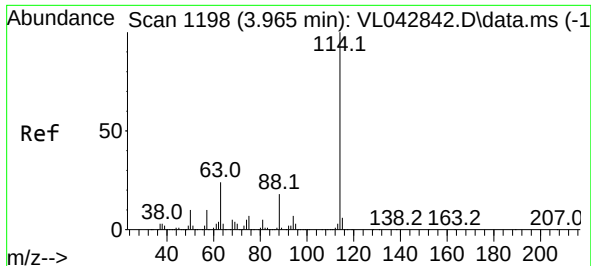
Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025



#26
 Hexane
 Concen: 0.675 ppbv
 RT: 2.823 min Scan# 845
 Delta R.T. 0.006 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

Tgt Ion: 57 Resp: 13897
 Ion Ratio Lower Upper
 57 100
 41 111.0 68.6 103.0#
 43 82.8 168.5 252.7#
 56 67.1 41.5 62.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.952 min Scan# 1194

Delta R.T. 0.010 min

Lab File: VL042909.D

Acq: 08 Sep 2025 18:21

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:114 Resp: 34329

Ion Ratio Lower Upper

114 100

63 26.7 19.7 29.5

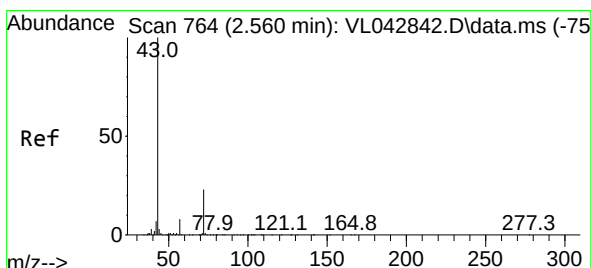
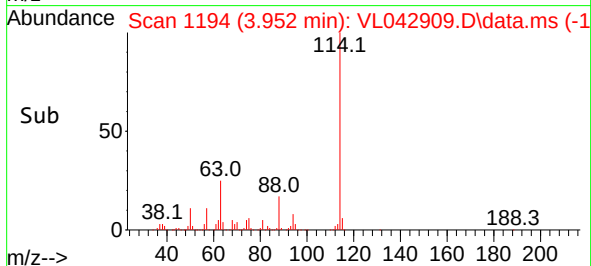
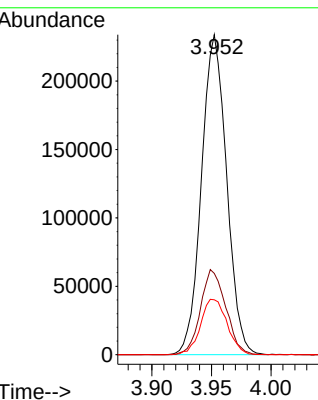
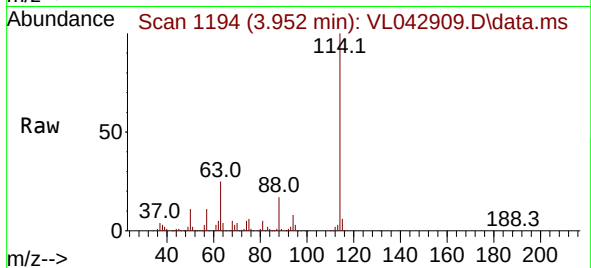
88 18.3 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 0.391 ppbv

RT: 2.557 min Scan# 763

Delta R.T. 0.010 min

Lab File: VL042909.D

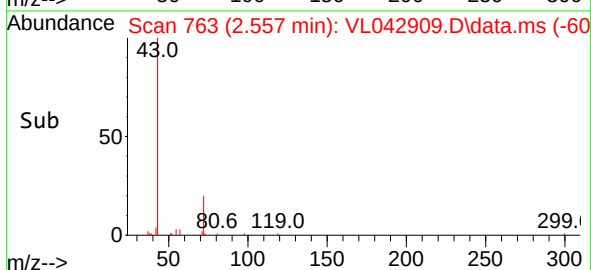
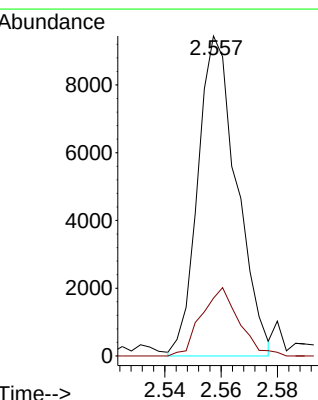
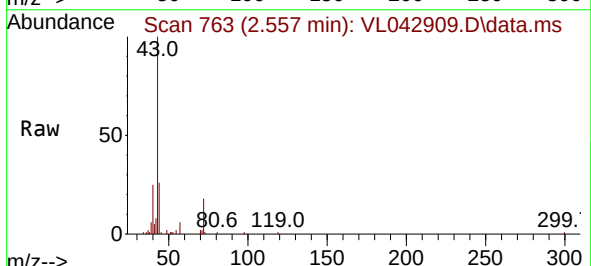
Acq: 08 Sep 2025 18:21

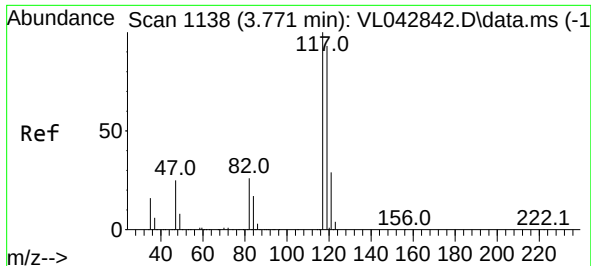
Tgt Ion: 43 Resp: 9059

Ion Ratio Lower Upper

43 100

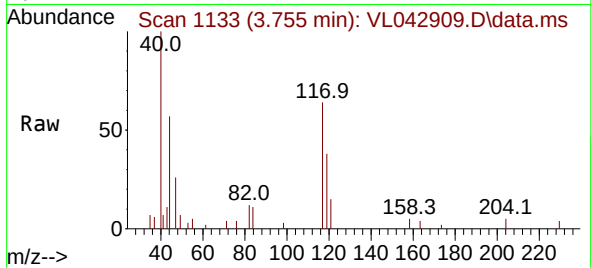
72 20.7 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.094 ppbv m
RT: 3.755 min Scan# 1138
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

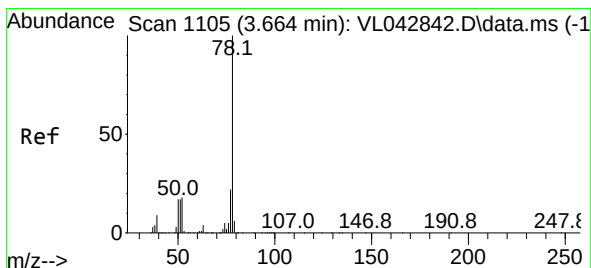
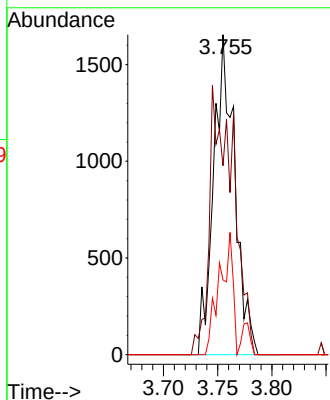
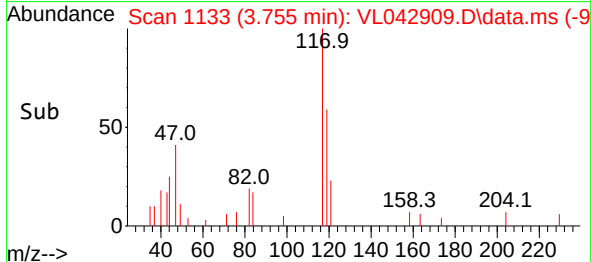
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 223
Ion Ratio Lower Upper
117 100
119 59.0 74.7 112.1
121 23.3 23.2 34.8

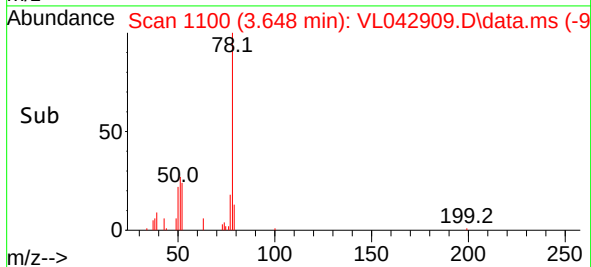
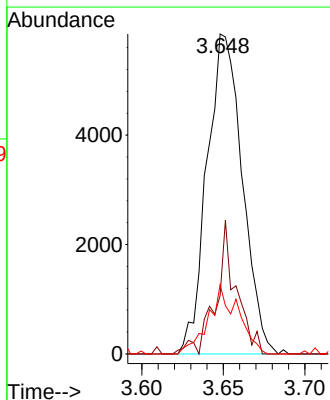
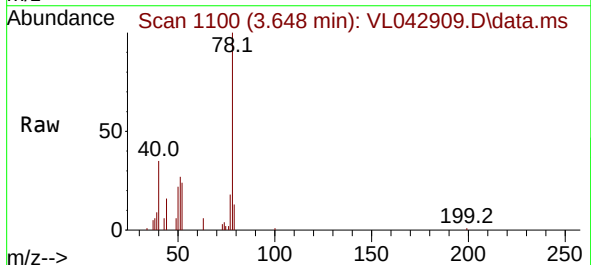
Manual Integrations
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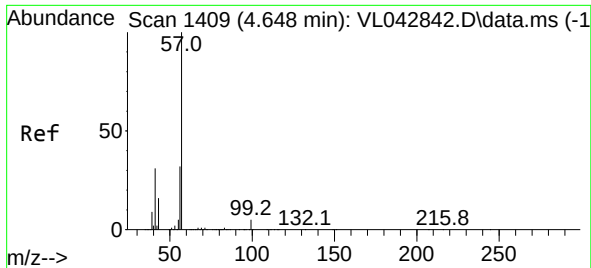
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#36
Benzene
Concen: 0.268 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. 0.003 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Tgt Ion: 78 Resp: 8823
Ion Ratio Lower Upper
78 100
77 18.3 17.7 26.5
50 21.6 13.9 20.9#





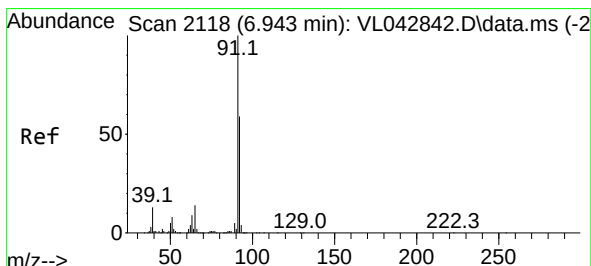
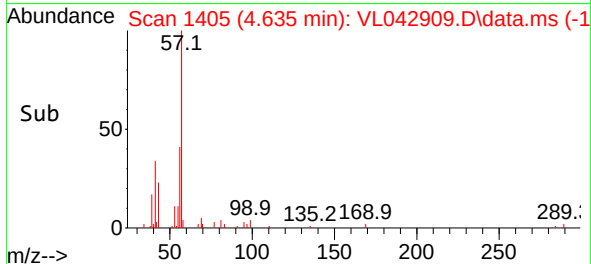
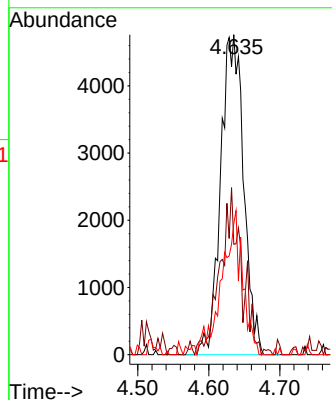
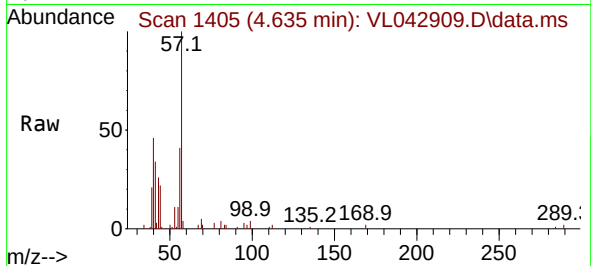
#44
2,2,4-Trimethylpentane
Concen: 0.192 ppbv m
RT: 4.635 min Scan# 1409
Delta R.T. 0.013 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 57 Resp: 1070
Ion Ratio Lower Upper
57 100
41 48.9 24.8 37.2
56 0.0 25.5 38.3

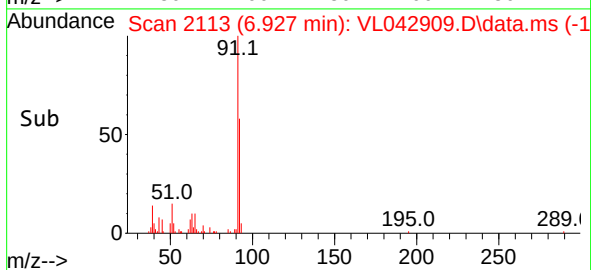
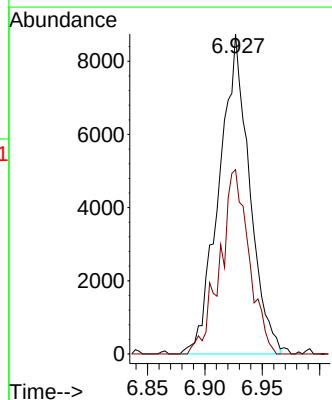
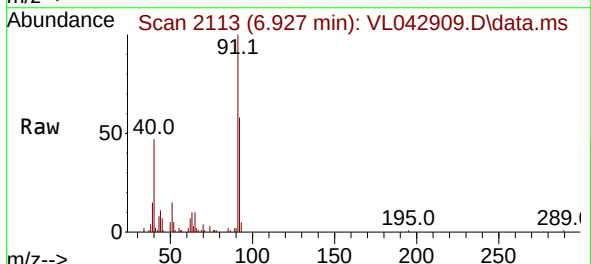
Manual Integrations
APPROVED

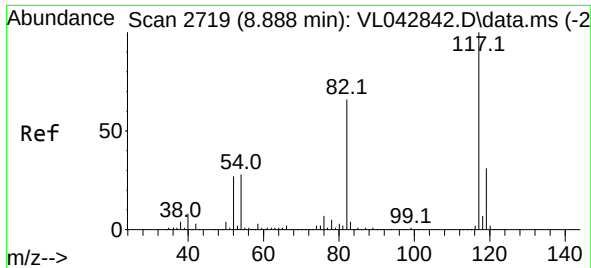
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#53
Toluene
Concen: 0.413 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. 0.013 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

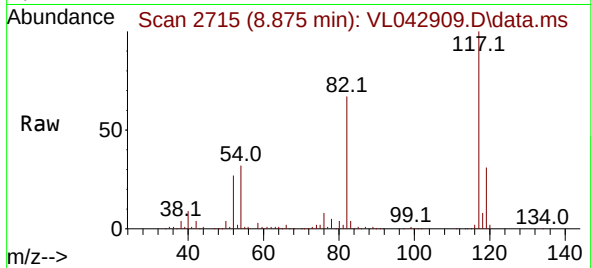
Tgt Ion: 91 Resp: 16132
Ion Ratio Lower Upper
91 100
92 55.0 47.8 71.6





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2175
Delta R.T. 0.006 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

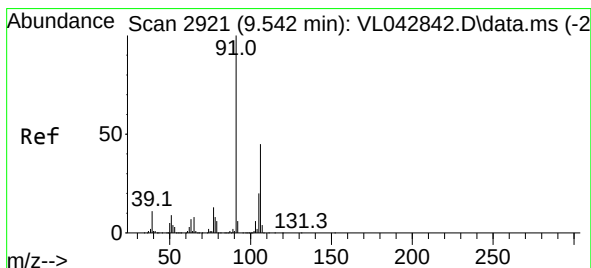
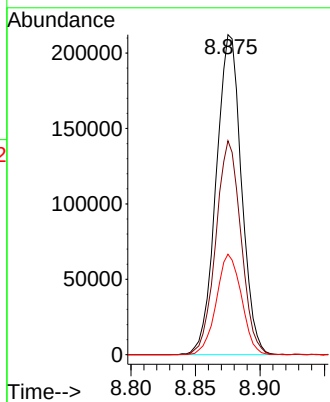
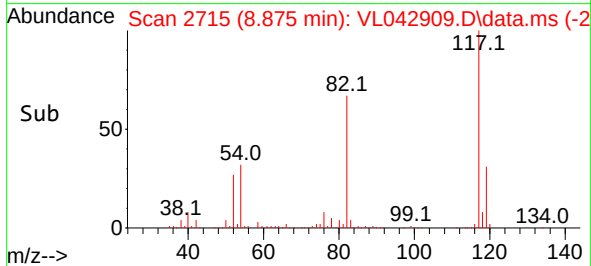
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:117 Resp: 28908
Ion Ratio Lower Upper
117 100
82 66.6 54.6 81.8
119 31.2 25.9 38.9

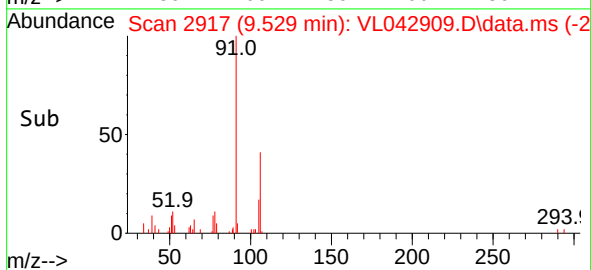
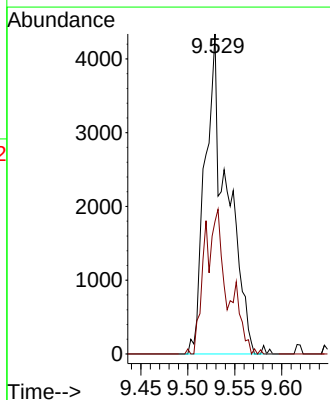
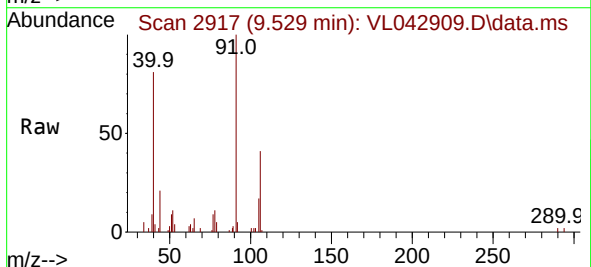
Manual Integrations
APPROVED

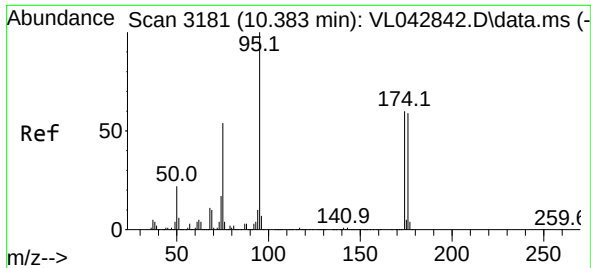
Reviewed By :Semsettin Yesilyurt 09/09/2025
Supervised By :Mahesh Dadoda 09/11/2025



#59
m/p-Xylene
Concen: 0.179 ppbv m
RT: 9.529 min Scan# 2917
Delta R.T. -0.010 min
Lab File: VL042909.D
Acq: 08 Sep 2025 18:21

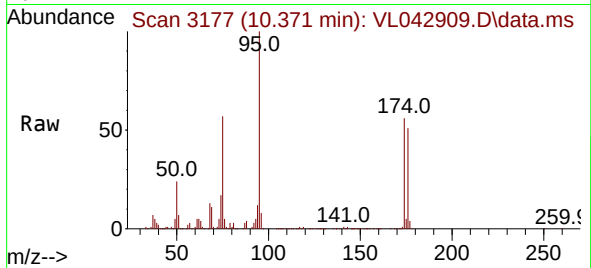
Tgt Ion: 91 Resp: 7142
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.933 ppbv
 RT: 10.371 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL042909.D
 Acq: 08 Sep 2025 18:21

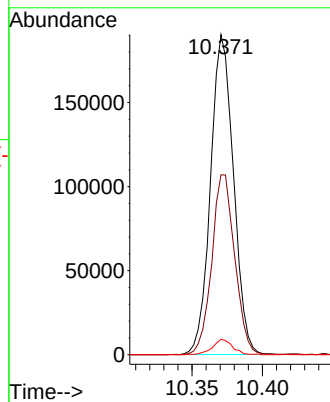
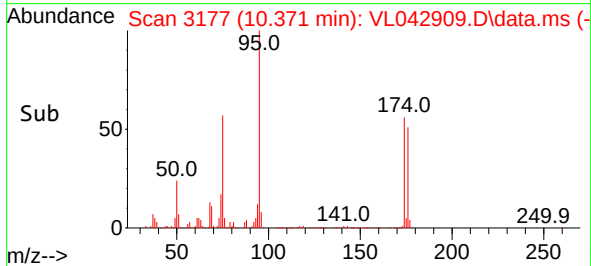
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 95 Resp: 215349
 Ion Ratio Lower Upper
 95 100
 174 56.4 48.4 72.6
 175 4.2 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q3052</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date(s):	<u>08/13/2025</u> <u>08/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>08:30</u> <u>12:06</u>
GC Column:	<u>RTX-1</u> ID: <u>0.32</u> (mm)		

LAB FILE ID:		RRF010 = VL042842.D		RRF002 = VL042843.D		RRF001 = VL042844.D		
		RRF0.5 = VL042845.D		RRF0.1 = VL042846.D		RRF.03 = VL042847.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.502	0.550	0.559	0.593	0.639	0.728	0.582	13.7
trans-1,2-Dichloroethene	0.537	0.604	0.613	0.630			0.586	7.1
1,1-Dichloroethane	1.040	1.185	1.223	1.317			1.171	9.4
cis-1,2-Dichloroethene	1.346	1.524	1.524	1.625			1.476	8.1
1,1,1-Trichloroethane	1.999	2.215	2.148	2.209	2.528	2.448	2.230	8.7
1,2-Dichloroethane	0.483	0.503	0.516	0.512			0.500	2.9
Trichloroethene	0.399	0.453	0.448	0.501	0.448	0.416	0.437	8.3
Tetrachloroethene	0.313	0.345	0.333	0.369	0.379	0.391	0.346	10.2
1-Bromo-4-Fluorobenzene	0.755	0.744	0.760	0.755	0.746	0.736	0.750	1.1

* 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 : VL081325AIR.M

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

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.566	1.525	1.511	1.343	1.383	1.466	6.61
3) Chlorodifluoro...			1.752	1.621	1.714	1.509	1.504	1.620	7.05
4) Chloromethane			0.648	0.618	0.606	0.533	0.551	0.591	8.09
5) T Vinyl Chloride	0.728	0.639	0.593	0.559	0.550	0.502	0.507	0.582	13.72
6) T Bromomethane			0.248	0.268	0.239	0.203	0.206	0.233	12.06
7) Chloroethane			0.266	0.240	0.219	0.202	0.210	0.227	11.46
8) T Dichlorotetra...			1.273	1.235	1.245	1.122	1.122	1.199	6.02
9) T Propene			0.824	0.692	0.715	0.656	0.611	0.700	11.40
10) T Heptane			2.009	2.011	1.917	1.718	1.713	1.874	7.96
11) T Trichlorofluor...			1.614	1.533	1.467	1.271	1.345	1.446	9.59
12) T 1,1,2-Trichlor...			1.259	1.202	1.189	1.047	1.066	1.152	7.95
13) Ethanol			0.089	0.069	0.070	0.046	0.047	0.064	27.87
14) T Bromoethene			0.462	0.416	0.436	0.381	0.391	0.417	7.89
15) T Acetone			1.708	1.475	1.476	0.950	1.005	1.323	24.92
16) T 1,3-Butadiene			0.783	0.633	0.579	0.500	0.503	0.600	19.47
17) tert-Butyl alc...			1.920	1.660	1.557	1.371	1.335	1.569	15.14
18) T 1,1-Dichloroet...			0.552	0.509	0.532	0.469	0.472	0.507	7.21
19) T Isopropyl Alcohol			0.976	0.847	0.799	0.649	0.679	0.790	16.79
20) T Methylene Chlo...			0.792	0.596	0.544	0.414	0.425	0.554	27.79
21) T Allyl Chloride			1.122	0.902	0.945	0.850	0.854	0.935	11.98
22) T trans-1,2-Dich...			0.630	0.613	0.604	0.537	0.546	0.586	7.10
23) T Vinyl Acetate			2.161	1.733	1.849	1.663	1.689	1.819	11.22
24) T 1,1-Dichloroet...			1.317	1.223	1.185	1.040	1.088	1.171	9.38
25) T Ethyl Acetate			3.491	3.346	3.324	2.932	2.914	3.202	8.19
26) T Hexane			1.557	1.552	1.522	1.392	1.366	1.478	6.19
27) T Carbon Disulfide			1.504	1.513	1.511	1.314	1.348	1.438	6.84
28) T Methyl tert-Bu...			0.833	0.747	0.817	0.661	0.710	0.754	9.61
29) T Chloroform			2.299	2.183	2.166	1.932	1.970	2.110	7.32
30) T Cyclohexane			1.425	1.283	1.340	1.214	1.217	1.296	6.87
31) T cis-1,2-Dichlo...			1.625	1.524	1.524	1.346	1.362	1.476	8.06
32) T 1,1,1-Trichlor...	2.448	2.528	2.209	2.148	2.215	1.999	2.063	2.230	8.69

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.702	0.700	0.610	0.611	0.675	9.33
35) T Carbon Tetrach...	0.736	0.738	0.682	0.700	0.692	0.636	0.643	0.689	5.84
36) T Benzene			1.013	0.978	0.990	0.912	0.896	0.958	5.33
37) T 1,2-Dichloroet...			0.512	0.516	0.503	0.483	0.488	0.500	2.87
38) T Trichloroethene	0.416	0.448	0.501	0.448	0.453	0.399	0.397	0.437	8.35
39) T 1,2-Dichloropr...			0.378	0.365	0.356	0.324	0.326	0.350	6.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL081325AIR.M										
40)	T	1,4-Dioxane		0.189	0.185	0.166	0.148	0.144	0.166	12.22
41)	T	Tetrahydrofuran		0.395	0.389	0.392	0.355	0.351	0.376	5.64
42)	T	Bromodichlorom...		0.786	0.742	0.777	0.708	0.714	0.745	4.77
43)		Methyl Methacr...		0.427	0.402	0.415	0.368	0.362	0.394	7.31
44)	T	2,2,4-Trimethy...		1.728	1.719	1.676	1.515	1.489	1.625	7.06
45)	T	t-1,3-Dichloro...		0.450	0.464	0.456	0.428	0.427	0.445	3.73
46)	T	cis-1,3-Dichlo...		0.568	0.559	0.578	0.539	0.529	0.555	3.67
47)	T	1,1,2-Trichlor...		0.395	0.382	0.386	0.341	0.348	0.371	6.52
48)	T	Dibromochlorom...		0.596	0.605	0.632	0.584	0.581	0.600	3.44
49)	T	Bromoform		0.466	0.514	0.535	0.491	0.467	0.495	6.07
50)	T	4-Methyl-2-Pen...		0.960	0.917	0.946	0.881	0.859	0.913	4.67
51)	T	2-Hexanone		0.723	0.737	0.750	0.699	0.683	0.718	3.82
52)	T	Tetrachloroethene	0.391 0.379	0.369	0.333	0.345	0.313	0.295	0.346	10.19
53)	T	Toluene		1.219	1.180	1.160	1.072	1.061	1.138	6.09
54)	T	1,2-Dibromoethane	0.599	0.549	0.532	0.552	0.506	0.512	0.542	6.24
-----ISTD-----										
55)	I	Chlorobenzene-d5								
56)		1,1,1,2-Tetrac...		0.534	0.549	0.551	0.476	0.476	0.517	7.39
57)	T	Chlorobenzene		1.026	0.990	0.994	0.878	0.866	0.951	7.68
58)	T	Ethyl Benzene		1.854	1.866	1.838	1.636	1.630	1.765	6.84
59)	T	m/p-Xylene		1.447	1.454	1.455	1.283	1.277	1.383	6.81
60)	T	o-Xylene		1.532	1.472	1.445	1.266	1.242	1.391	9.31
61)	T	Styrene		0.711	0.677	0.660	0.610	0.601	0.652	7.09
62)		Isopropylbenzene		2.149	2.194	2.133	1.852	1.838	2.033	8.53
63)	T	1,1,2,2-Tetrac...	0.881 0.774	0.795	0.784	0.772	0.674	0.677	0.765	9.39
64)		n-propylbenzene		0.570	0.528	0.549	0.475	0.472	0.519	8.47
65)		tert-Butylbenzene		1.907	1.991	1.910	1.605	1.549	1.793	11.19
66)	T	Benzyl Chloride		0.232	0.226	0.246	0.227	0.207	0.228	6.21
67)		sec-Butylbenzene		2.669	2.754	2.706	2.250	2.202	2.516	10.62
68)	S	1-Bromo-4-Fluo...	0.736 0.746	0.755	0.760	0.744	0.755	0.754	0.750	1.09
69)		p-Isopropyltol...		2.338	2.372	2.328	1.905	1.856	2.160	11.85
70)		n-Butylbenzene		2.234	2.303	2.333	1.927	1.915	2.142	9.58
71)		2-Chlorotoluene		1.709	1.719	1.641	1.418	1.408	1.579	9.77
72)	T	4-Ethyltoluene		1.738	1.806	1.784	1.563	1.543	1.687	7.39
73)	T	1,3,5-Trimethy...		1.548	1.535	1.512	1.293	1.283	1.434	9.37
74)	T	1,2,4-Trimethy...		1.710	1.706	1.698	1.394	1.365	1.574	11.33
75)	T	1,3-Dichlorobe...		0.937	0.946	0.967	0.831	0.795	0.895	8.59
76)	T	1,4-Dichlorobe...		0.966	0.946	0.978	0.833	0.803	0.905	8.93
77)	T	1,2-Dichlorobe...		0.937	0.956	0.947	0.781	0.761	0.876	11.03
78)	T	Hexachloro-1,3...		0.814	0.845	0.804	0.572	0.556	0.718	19.74
79)	T	Naphthalene	1.174	1.383	1.647	1.746	1.315	1.300	1.427	15.50
80)	T	Naphthalene,2-...		0.430	0.554	0.708	0.478	0.497	0.533	20.15
81)	T	1,2,4-Trichlor...		0.623	0.797	0.855	0.661	0.650	0.717	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluoro...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	950548m	18.524	ppbv	
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	1817m	2.008	ppbv	
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	13510m	2.022	ppbv	
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	33851m	2.111	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.558	91	211704m	4.200	ppbv	
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

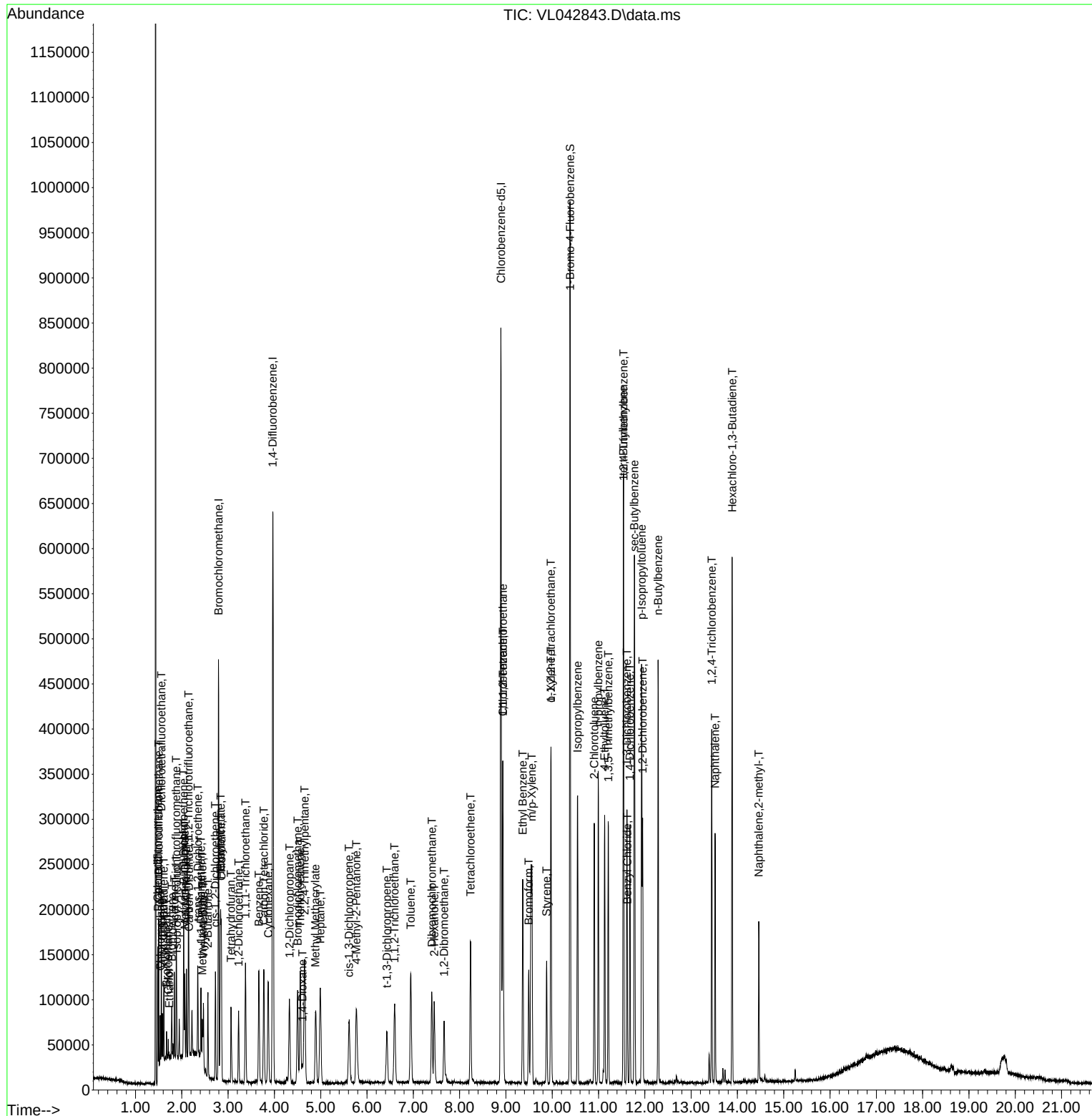
Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 265708 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.985	43	25850m	1.075	ppbv	
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	883m	0.991	ppbv	
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.344	96	7882m	1.082	ppbv	
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	14595m	1.042	ppbv	
40) 1,4-Dioxane	4.603	88	7386m	1.127	ppbv	
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.885	69	16073m	1.022	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	68813m	1.069	ppbv	
45) t-1,3-Dichloropropene	6.419	75	18580m	1.042	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

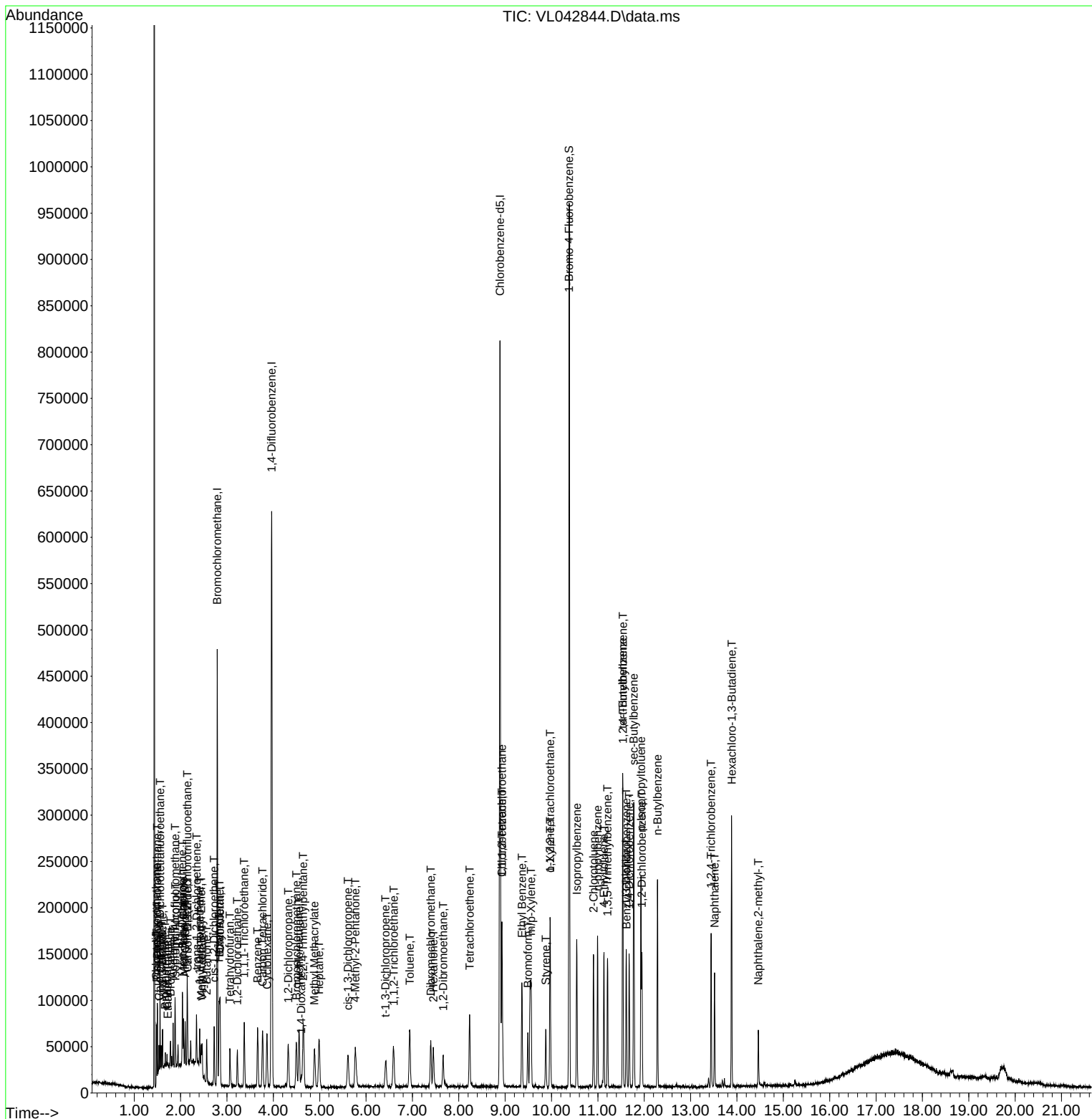
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.558	91	101634m	2.098	ppbv	
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Aug 14 01:47:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	262663	10.064	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	3743m	0.577	ppbv	
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	8461m	0.544	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	34237m	0.537	ppbv	
45) t-1,3-Dichloropropene	6.435	75	8911m	0.505	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	ppbv	
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.956	91	24155m	0.535	ppbv	
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.561	91	50372m	1.045	ppbv	
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 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

08/14/2025
 Supervised By :Mahesh
 Dadoda

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							08/18/2025
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00	
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00	
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00	
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%	
Target Compounds							Qvalue
5) Vinyl Chloride	1.583	62	790	0.110	ppbv	#	86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv		
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv		89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv		
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv		
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv		
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv		99
79) Naphthalene	13.520	128	4051m	0.083	ppbv		

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

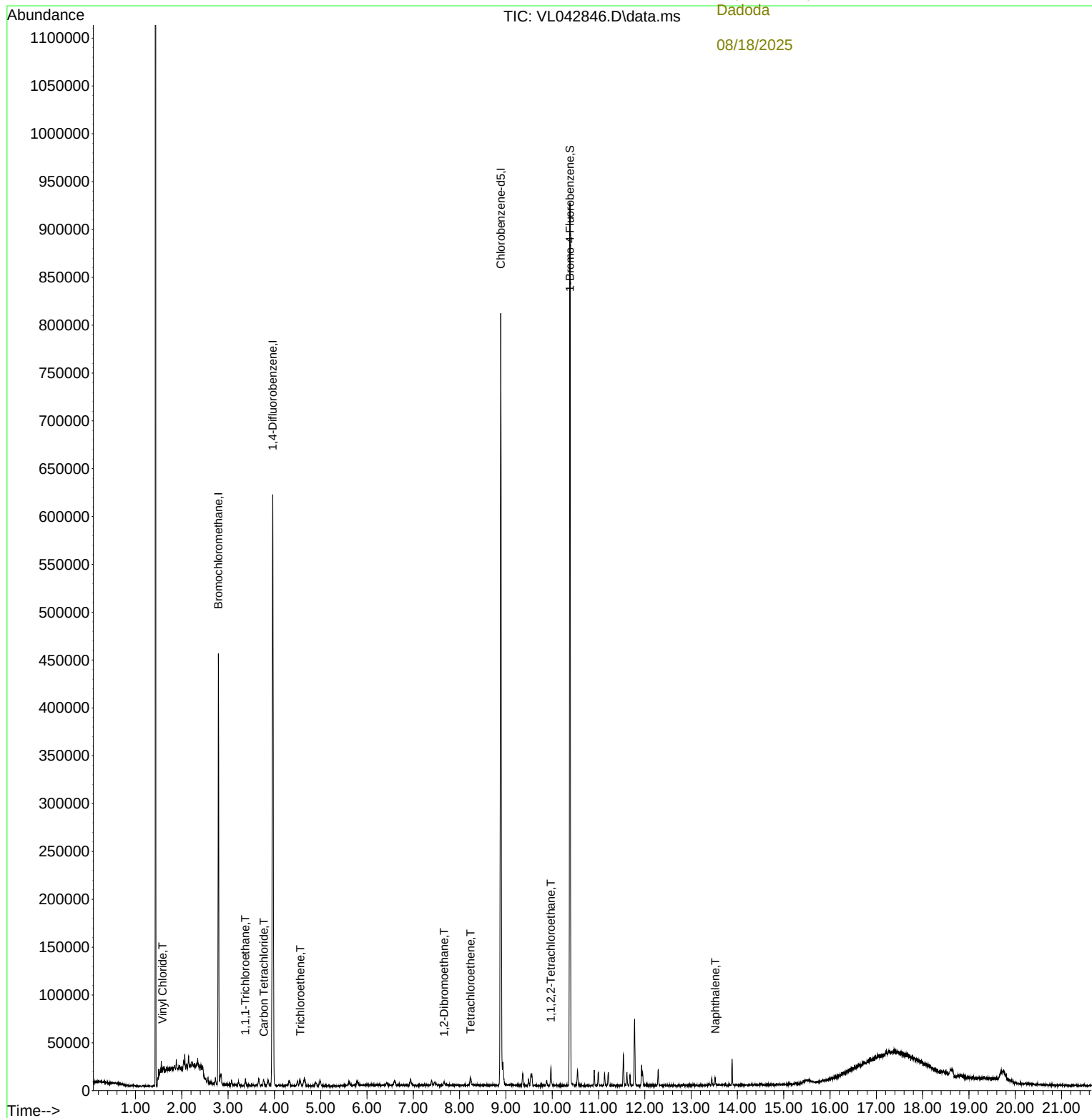
Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Semsettin
Yesilyurt

08/14/2025
Supervised By :Mahesh
Dadoda

08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
32) 1,1,1-Trichloroethane	3.379	97	901m	0.033	ppbv	
35) Carbon Tetrachloride	3.774	117	861m	0.032	ppbv	
38) Trichloroethene	4.573	130	487m	0.029	ppbv	
52) Tetrachloroethene	8.241	164	458m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	898m	0.035	ppbv	

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

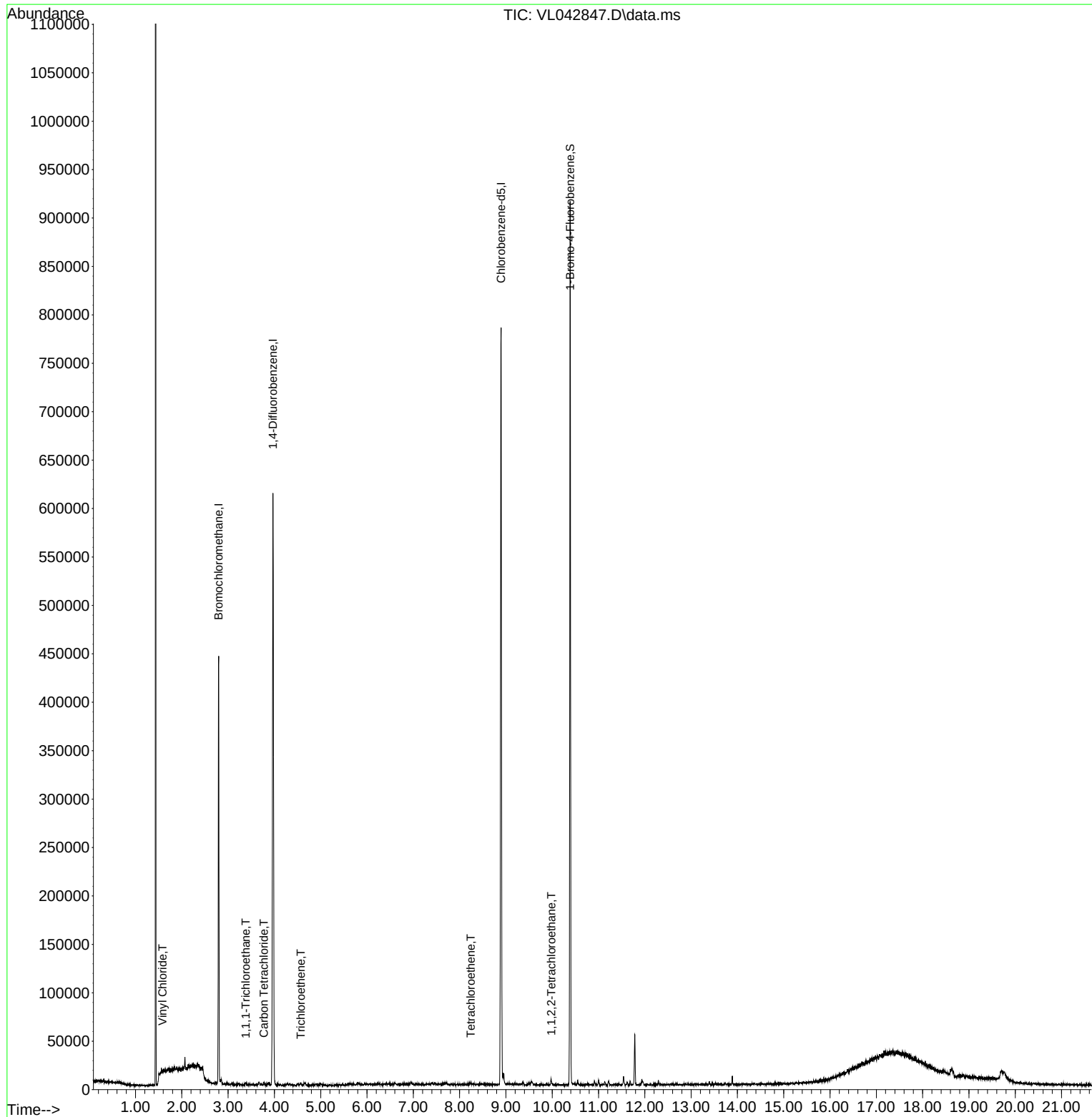
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 254655 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.561	91	1294381m	27.650	ppbv	
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 252268 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.561	91	865106m	18.754	ppbv	
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	1.466	1.334	9.0	91	0.00
3	Chlorodifluoromethane	1.620	1.511	6.7	92	0.00
4	Chloromethane	0.591	0.520	12.0	90	0.00
5 T	Vinyl Chloride	0.582	0.479	17.7	88	0.00
6 T	Bromomethane	0.233	0.205	12.0	93	0.00
7	Chloroethane	0.227	0.190	16.3	87	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.109	7.5	91	0.00
9 T	Propene	0.700	0.624	10.9	88	0.00
10 T	Heptane	1.874	1.685	10.1	90	0.00
11 T	Trichlorofluoromethane	1.446	1.259	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.017	11.7	89	0.00
13	Ethanol	0.064	0.049#	23.4	97	0.00
14 T	Bromoethene	0.417	0.380	8.9	92	0.00
15 T	Acetone	1.323	0.977	26.2	95	0.00
16 T	1,3-Butadiene	0.600	0.497	17.2	91	0.00
17	tert-Butyl alcohol	1.569	1.359	13.4	91	0.00
18 T	1,1-Dichloroethene	0.507	0.460	9.3	90	0.00
19 T	Isopropyl Alcohol	0.790	0.644	18.5	91	0.00
20 T	Methylene Chloride	0.554	0.390	29.6	87	0.00
21 T	Allyl Chloride	0.935	0.837	10.5	91	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.522	10.9	89	0.00
23 T	Vinyl Acetate	1.819	1.617	11.1	89	0.00
24 T	1,1-Dichloroethane	1.171	1.042	11.0	92	0.00
25 T	Ethyl Acetate	3.202	2.958	7.6	93	0.00
26 T	Hexane	1.478	1.366	7.6	90	0.00
27 T	Carbon Disulfide	1.438	1.271	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.670	11.1	93	0.00
29 T	Chloroform	2.110	1.978	6.3	94	0.00
30 T	Cyclohexane	1.296	1.204	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.357	8.1	93	0.00
32 T	1,1,1-Trichloroethane	2.230	2.064	7.4	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.675	0.617	8.6	92	0.00
35 T	Carbon Tetrachloride	0.689	0.653	5.2	93	0.00
36 T	Benzene	0.958	0.919	4.1	91	0.00
37 T	1,2-Dichloroethane	0.500	0.500	0.0	94	0.00
38 T	Trichloroethene	0.437	0.402	8.0	91	0.00
39 T	1,2-Dichloropropane	0.350	0.330	5.7	92	0.00
40 T	1,4-Dioxane	0.166	0.148	10.8	90	0.00
41 T	Tetrahydrofuran	0.376	0.353	6.1	90	0.00
42 T	Bromodichloromethane	0.745	0.721	3.2	92	0.00
43	Methyl Methacrylate	0.394	0.364	7.6	90	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.510	7.1	90	0.00
45 T	t-1,3-Dichloropropene	0.445	0.429	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.534	3.8	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.354	4.6	94	0.00
48 T	Dibromochloromethane	0.600	0.582	3.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.467	5.7	86	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.861	5.7	88	0.00
51 T	2-Hexanone	0.718	0.703	2.1	91	0.00
52 T	Tetrachloroethene	0.346	0.296	14.5	86	0.00
53 T	Toluene	1.138	1.063	6.6	90	0.00
54 T	1,2-Dibromoethane	0.542	0.516	4.8	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.480	7.2	91	0.00
57 T	Chlorobenzene	0.951	0.892	6.2	91	0.00
58 T	Ethyl Benzene	1.765	1.661	5.9	91	0.00
59 T	m/p-Xylene	1.383	1.297	6.2	91	0.02
60 T	o-Xylene	1.391	1.286	7.5	91	0.00
61 T	Styrene	0.652	0.611	6.3	90	0.00
62	Isopropylbenzene	2.033	1.872	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.675	11.8	90	0.00
64	n-propylbenzene	0.519	0.474	8.7	90	0.00
65	tert-Butylbenzene	1.793	1.604	10.5	90	0.00
66 T	Benzyl Chloride	0.228	0.206	9.6	81	0.00
67	sec-Butylbenzene	2.516	2.287	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.756	-0.8	90	0.00
69	p-Isopropyltoluene	2.160	1.903	11.9	90	0.00
70	n-Butylbenzene	2.142	1.941	9.4	91	0.00
71	2-Chlorotoluene	1.579	1.455	7.9	92	0.00
72 T	4-Ethyltoluene	1.687	1.575	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.306	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.408	10.5	91	0.00
75 T	1,3-Dichlorobenzene	0.895	0.824	7.9	89	0.00
76 T	1,4-Dichlorobenzene	0.905	0.813	10.2	88	0.00
77 T	1,2-Dichlorobenzene	0.876	0.766	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.559	22.1	88	0.00
79 T	Naphthalene	1.427	1.325	7.1	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.437	18.0	82	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.647	9.8	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	10.000	9.105	8.9	91	0.00
3	Chlorodifluoromethane	10.000	9.327	6.7	92	0.00
4	Chloromethane	10.000	8.784	12.2	90	0.00
5 T	Vinyl Chloride	10.000	8.232	17.7	88	0.00
6 T	Bromomethane	10.000	8.801	12.0	93	0.00
7	Chloroethane	10.000	8.360	16.4	87	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.248	7.5	91	0.00
9 T	Propene	10.000	8.922	10.8	88	0.00
10 T	Heptane	10.000	8.990	10.1	90	0.00
11 T	Trichlorofluoromethane	10.000	8.707	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.824	11.8	89	0.00
13	Ethanol	10.000	7.678	23.2	97	0.00
14 T	Bromoethene	10.000	9.105	8.9	92	0.00
15 T	Acetone	10.000	7.389	26.1	95	0.00
16 T	1,3-Butadiene	10.000	8.285	17.1	91	0.00
17	tert-Butyl alcohol	10.000	8.663	13.4	91	0.00
18 T	1,1-Dichloroethene	10.000	9.087	9.1	90	0.00
19 T	Isopropyl Alcohol	10.000	8.146	18.5	91	0.00
20 T	Methylene Chloride	10.000	7.041	29.6	87	0.00
21 T	Allyl Chloride	10.000	8.956	10.4	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.904	11.0	89	0.00
23 T	Vinyl Acetate	10.000	8.891	11.1	89	0.00
24 T	1,1-Dichloroethane	10.000	8.903	11.0	92	0.00
25 T	Ethyl Acetate	10.000	9.240	7.6	93	0.00
26 T	Hexane	10.000	9.246	7.5	90	0.00
27 T	Carbon Disulfide	10.000	8.841	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.898	11.0	93	0.00
29 T	Chloroform	10.000	9.377	6.2	94	0.00
30 T	Cyclohexane	10.000	9.289	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.196	8.0	93	0.00
32 T	1,1,1-Trichloroethane	10.000	9.256	7.4	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.135	8.7	92	0.00
35 T	Carbon Tetrachloride	10.000	9.478	5.2	93	0.00
36 T	Benzene	10.000	9.592	4.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.991	0.1	94	0.00
38 T	Trichloroethene	10.000	9.202	8.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.436	5.6	92	0.00
40 T	1,4-Dioxane	10.000	8.879	11.2	90	0.00
41 T	Tetrahydrofuran	10.000	9.372	6.3	90	0.00
42 T	Bromodichloromethane	10.000	9.678	3.2	92	0.00
43	Methyl Methacrylate	10.000	9.229	7.7	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.290	7.1	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.645	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.628	3.7	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.553	4.5	94	0.00
48 T	Dibromochloromethane	10.000	9.708	2.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	9.446	5.5	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.430	5.7	88	0.00
51 T	2-Hexanone	10.000	9.791	2.1	91	0.00
52 T	Tetrachloroethene	10.000	8.544	14.6	86	0.00
53 T	Toluene	10.000	9.340	6.6	90	0.00
54 T	1,2-Dibromoethane	10.000	9.535	4.6	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.291	7.1	91	0.00
57 T	Chlorobenzene	10.000	9.378	6.2	91	0.00
58 T	Ethyl Benzene	10.000	9.414	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.754	6.2	91	0.02
60 T	o-Xylene	10.000	9.239	7.6	91	0.00
61 T	Styrene	10.000	9.377	6.2	90	0.00
62	Isopropylbenzene	10.000	9.206	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.826	11.7	90	0.00
64	n-propylbenzene	10.000	9.145	8.6	90	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	9.031	9.7	81	0.00
67	sec-Butylbenzene	10.000	9.088	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.086	-0.9	90	0.00
69	p-Isopropyltoluene	10.000	8.810	11.9	90	0.00
70	n-Butylbenzene	10.000	9.062	9.4	91	0.00
71	2-Chlorotoluene	10.000	9.214	7.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.338	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.108	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.943	10.6	91	0.00
75 T	1,3-Dichlorobenzene	10.000	9.209	7.9	89	0.00
76 T	1,4-Dichlorobenzene	10.000	8.976	10.2	88	0.00
77 T	1,2-Dichlorobenzene	10.000	8.736	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.778	22.2	88	0.00
79 T	Naphthalene	10.000	9.284	7.2	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.188	18.1	82	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.016	9.8	88	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>Q3052</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>09/08/2025 11:05</u>
Lab File ID:	<u>VL042900.D</u>	Init. Calib. Date(s):	<u>08/13/2025 08/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:30 12:06</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.582	0.560		-3.78	30
trans-1,2-Dichloroethene	0.586	0.585		-0.17	30
1,1-Dichloroethane	1.171	1.205		2.9	30
cis-1,2-Dichloroethene	1.476	1.441		-2.37	30
1,1,1-Trichloroethane	2.230	2.143		-3.9	30
1,2-Dichloroethane	0.500	0.635		27	30
Trichloroethene	0.437	0.455		4.12	30
Tetrachloroethene	0.346	0.331		-4.34	30
1-Bromo-4-Fluorobenzene	0.750	0.786		4.8	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\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 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 09/09/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	126678	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.943	114	333606	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.869	117	282770	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 222314 10.483 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	195136	10.511	ppbv	100
3) Chlorodifluoromethane	1.470	51	223887	10.910	ppbv	98
4) Chloromethane	1.528	50	74830	9.988	ppbv	99
5) Vinyl Chloride	1.577	62	70899	9.609	ppbv	99
6) Bromomethane	1.664	94	28498	9.659	ppbv	99
7) Chloroethane	1.700	64	28496	9.889	ppbv	89
8) Dichlorotetrafluoroethane	1.551	85	158303	10.420	ppbv	96
9) Propene	1.476	41	88702	10.009	ppbv	99
10) Heptane	4.959	43	234952	9.898	ppbv	98
11) Trichlorofluoromethane	1.871	101	188309	10.280	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	147287	10.089	ppbv	96
13) Ethanol	1.716	45	6525	8.052	ppbv	98
14) Bromoethene	1.777	108	53755	10.171	ppbv	99
15) Acetone	1.829	43	145289	8.670	ppbv	98
16) 1,3-Butadiene	1.602	39	70713	9.308	ppbv	100
17) tert-Butyl alcohol	2.033	59	170394	8.574	ppbv	99
18) 1,1-Dichloroethene	2.026	96	63544	9.900	ppbv	94
19) Isopropyl Alcohol	1.881	45	89009	8.893	ppbv	95
20) Methylene Chloride	2.056	84	57698	8.219	ppbv	93
21) Allyl Chloride	2.088	41	114332	9.658	ppbv	94
22) trans-1,2-Dichloroethene	2.331	96	74045	9.971	ppbv	93
23) Vinyl Acetate	2.454	43	228268	9.907	ppbv #	97
24) 1,1-Dichloroethane	2.402	63	152618	10.291	ppbv	99
25) Ethyl Acetate	2.826	43	415386	10.242	ppbv	99
26) Hexane	2.816	57	187779	10.031	ppbv	95
27) Carbon Disulfide	2.143	76	193262	10.608	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	85774	8.986	ppbv	93
29) Chloroform	2.839	83	281659	10.538	ppbv	98
30) Cyclohexane	3.842	84	153066	9.326	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	182592	9.765	ppbv	99
32) 1,1,1-Trichloroethane	3.357	97	271429	9.609	ppbv	96
34) 2-Butanone	2.548	43	272735	12.107	ppbv	98
35) Carbon Tetrachloride	3.748	117	269097	11.700	ppbv	99
36) Benzene	3.645	78	366027	11.458	ppbv	97
37) 1,2-Dichloroethane	3.208	62	211728	12.686	ppbv	98
38) Trichloroethene	4.532	130	151915	10.413	ppbv	95
39) 1,2-Dichloropropane	4.299	63	139657	11.970	ppbv	96
40) 1,4-Dioxane	4.561	88	56013	10.096	ppbv #	88
41) Tetrahydrofuran	3.043	42	148990	11.863	ppbv	96
42) Bromodichloromethane	4.473	83	301814	12.136	ppbv	98
43) Methyl Methacrylate	4.859	69	141813	10.776	ppbv	95
44) 2,2,4-Trimethylpentane	4.622	57	631245	11.642	ppbv	99
45) t-1,3-Dichloropropene	6.393	75	154622	10.411	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 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 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.580	75	200797	10.851	ppbv	98
47) 1,1,2-Trichloroethane	6.561	97	144209	11.666	ppbv	98
48) Dibromochloromethane	7.370	129	228649	11.430	ppbv	100
49) Bromoform	9.471	173	184068	11.158	ppbv	98
50) 4-Methyl-2-Pentanone	5.729	43	359329	11.801	ppbv	96
51) 2-Hexanone	7.419	43	284454	11.872	ppbv #	95
52) Tetrachloroethene	8.212	164	110334	9.547	ppbv	98
53) Toluene	6.914	91	402080	10.587	ppbv	100
54) 1,2-Dibromoethane	7.636	107	204276	11.307	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.914	131	170319	11.648	ppbv	99
57) Chlorobenzene	8.911	112	311373	11.581	ppbv	97
58) Ethyl Benzene	9.345	91	558102	11.184	ppbv	99
59) m/p-Xylene	9.539	91	914783m	23.388	ppbv	
60) o-Xylene	9.953	91	460968	11.716	ppbv	100
61) Styrene	9.859	104	195007	10.579	ppbv	99
62) Isopropylbenzene	10.529	105	655164	11.394	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.953	83	266435	12.314	ppbv	100
64) n-propylbenzene	10.979	120	164610	11.220	ppbv	90
65) tert-Butylbenzene	11.523	119	561409	11.075	ppbv	97
66) Benzyl Chloride	11.607	91	50803	7.895	ppbv #	98
67) sec-Butylbenzene	11.759	105	833114	11.709	ppbv	98
69) p-Isopropyltoluene	11.918	119	667558	10.929	ppbv	99
70) n-Butylbenzene	12.274	91	711012	11.736	ppbv	98
71) 2-Chlorotoluene	10.892	91	498072	11.156	ppbv	97
72) 4-Ethyltoluene	11.118	105	554411	11.624	ppbv	98
73) 1,3,5-Trimethylbenzene	11.196	105	450409	11.105	ppbv	98
74) 1,2,4-Trimethylbenzene	11.529	105	508605	11.424	ppbv	95
75) 1,3-Dichlorobenzene	11.597	146	289650	11.445	ppbv	99
76) 1,4-Dichlorobenzene	11.662	146	287352	11.226	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	281307	11.351	ppbv	99
78) Hexachloro-1,3-Butadiene	13.873	225	167893	8.266	ppbv	99
79) Naphthalene	13.504	128	428355	10.613	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	127751	8.470	ppbv	96
81) 1,2,4-Trichlorobenzene	13.432	180	207455	10.226	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	95	0.00
2 T	Dichlorodifluoromethane	1.466	1.540	-5.0	109	0.00
3	Chlorodifluoromethane	1.620	1.767	-9.1	111	0.00
4	Chloromethane	0.591	0.591	0.0	105	0.00
5 T	Vinyl Chloride	0.582	0.560	3.8	106	0.00
6 T	Bromomethane	0.233	0.225	3.4	106	0.00
7	Chloroethane	0.227	0.225	0.9	106	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.250	-4.3	106	0.00
9 T	Propene	0.700	0.700	0.0	102	0.00
10 T	Heptane	1.874	1.855	1.0	103	0.00
11 T	Trichlorofluoromethane	1.446	1.487	-2.8	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.163	-1.0	106	0.00
13	Ethanol	0.064	0.052	18.8	106	0.00
14 T	Bromoethene	0.417	0.424	-1.7	106	0.00
15 T	Acetone	1.323	1.147	13.3	115	0.00
16 T	1,3-Butadiene	0.600	0.558	7.0	106	0.00
17	tert-Butyl alcohol	1.569	1.345	14.3	93	0.00
18 T	1,1-Dichloroethene	0.507	0.502	1.0	102	0.00
19 T	Isopropyl Alcohol	0.790	0.703	11.0	103	0.00
20 T	Methylene Chloride	0.554	0.455	17.9	105	0.00
21 T	Allyl Chloride	0.935	0.903	3.4	101	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.585	0.2	104	0.00
23 T	Vinyl Acetate	1.819	1.802	0.9	103	0.00
24 T	1,1-Dichloroethane	1.171	1.205	-2.9	110	0.00
25 T	Ethyl Acetate	3.202	3.279	-2.4	106	0.00
26 T	Hexane	1.478	1.482	-0.3	101	0.00
27 T	Carbon Disulfide	1.438	1.526	-6.1	110	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.677	10.2	98	0.00
29 T	Chloroform	2.110	2.223	-5.4	110	0.00
30 T	Cyclohexane	1.296	1.208	6.8	95	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.441	2.4	102	0.00
32 T	1,1,1-Trichloroethane	2.230	2.143	3.9	102	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	81	0.00
34 T	2-Butanone	0.675	0.818	-21.2	108	0.00
35 T	Carbon Tetrachloride	0.689	0.807	-17.1	102	0.00
36 T	Benzene	0.958	1.097	-14.5	97	0.00
37 T	1,2-Dichloroethane	0.500	0.635	-27.0	106	0.00
38 T	Trichloroethene	0.437	0.455	-4.1	92	0.00
39 T	1,2-Dichloropropane	0.350	0.419	-19.7	104	0.00
40 T	1,4-Dioxane	0.166	0.168	-1.2	91	0.00
41 T	Tetrahydrofuran	0.376	0.447	-18.9	101	0.00
42 T	Bromodichloromethane	0.745	0.905	-21.5	103	0.00
43	Methyl Methacrylate	0.394	0.425	-7.9	93	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.892	-16.4	101	0.00
45 T	t-1,3-Dichloropropene	0.445	0.463	-4.0	87	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.602	-8.5	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.432	-16.4	102	0.00
48 T	Dibromochloromethane	0.600	0.685	-14.2	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	0.495	0.552	-11.5	91	0.00
50 T	4-Methyl-2-Pentanone	0.913	1.077	-18.0	99	0.00
51 T	2-Hexanone	0.718	0.853	-18.8	98	0.00
52 T	Tetrachloroethene	0.346	0.331	4.3	85	0.00
53 T	Toluene	1.138	1.205	-5.9	91	0.00
54 T	1,2-Dibromoethane	0.542	0.612	-12.9	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	76	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.602	-16.4	97	0.00
57 T	Chlorobenzene	0.951	1.101	-15.8	96	0.00
58 T	Ethyl Benzene	1.765	1.974	-11.8	92	0.00
59 T	m/p-Xylene	1.383	1.618	-17.0	96	0.00
60 T	o-Xylene	1.391	1.630	-17.2	98	0.00
61 T	Styrene	0.652	0.690	-5.8	86	0.00
62	Isopropylbenzene	2.033	2.317	-14.0	96	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.942	-23.1	107	0.00
64	n-propylbenzene	0.519	0.582	-12.1	94	0.00
65	tert-Butylbenzene	1.793	1.985	-10.7	94	0.00
66 T	Benzyl Chloride	0.228	0.180	21.1	60	0.00
67	sec-Butylbenzene	2.516	2.946	-17.1	100	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.786	-4.8	80	0.00
69	p-Isopropyltoluene	2.160	2.361	-9.3	95	0.00
70	n-Butylbenzene	2.142	2.514	-17.4	100	0.00
71	2-Chlorotoluene	1.579	1.761	-11.5	95	0.00
72 T	4-Ethyltoluene	1.687	1.961	-16.2	96	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.593	-11.1	94	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.799	-14.3	99	0.00
75 T	1,3-Dichlorobenzene	0.895	1.024	-14.4	94	0.00
76 T	1,4-Dichlorobenzene	0.905	1.016	-12.3	93	0.00
77 T	1,2-Dichlorobenzene	0.876	0.995	-13.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.594	17.3	79	0.00
79 T	Naphthalene	1.427	1.515	-6.2	88	0.00
80 T	Naphthalene,2-methyl-	0.533	0.452	15.2	72	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.734	-2.4	85	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	95	0.00
2 T	Dichlorodifluoromethane	10.000	10.511	-5.1	109	0.00
3	Chlorodifluoromethane	10.000	10.910	-9.1	111	0.00
4	Chloromethane	10.000	9.988	0.1	105	0.00
5 T	Vinyl Chloride	10.000	9.609	3.9	106	0.00
6 T	Bromomethane	10.000	9.659	3.4	106	0.00
7	Chloroethane	10.000	9.889	1.1	106	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.420	-4.2	106	0.00
9 T	Propene	10.000	10.009	-0.1	102	0.00
10 T	Heptane	10.000	9.898	1.0	103	0.00
11 T	Trichlorofluoromethane	10.000	10.280	-2.8	111	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.089	-0.9	106	0.00
13	Ethanol	10.000	8.052	19.5	106	0.00
14 T	Bromoethene	10.000	10.171	-1.7	106	0.00
15 T	Acetone	10.000	8.670	13.3	115	0.00
16 T	1,3-Butadiene	10.000	9.308	6.9	106	0.00
17	tert-Butyl alcohol	10.000	8.574	14.3	93	0.00
18 T	1,1-Dichloroethene	10.000	9.900	1.0	102	0.00
19 T	Isopropyl Alcohol	10.000	8.893	11.1	103	0.00
20 T	Methylene Chloride	10.000	8.219	17.8	105	0.00
21 T	Allyl Chloride	10.000	9.658	3.4	101	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.971	0.3	104	0.00
23 T	Vinyl Acetate	10.000	9.907	0.9	103	0.00
24 T	1,1-Dichloroethane	10.000	10.291	-2.9	110	0.00
25 T	Ethyl Acetate	10.000	10.242	-2.4	106	0.00
26 T	Hexane	10.000	10.031	-0.3	101	0.00
27 T	Carbon Disulfide	10.000	10.608	-6.1	110	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.986	10.1	98	0.00
29 T	Chloroform	10.000	10.538	-5.4	110	0.00
30 T	Cyclohexane	10.000	9.326	6.7	95	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.765	2.3	102	0.00
32 T	1,1,1-Trichloroethane	10.000	9.609	3.9	102	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	81	0.00
34 T	2-Butanone	10.000	12.107	-21.1	108	0.00
35 T	Carbon Tetrachloride	10.000	11.700	-17.0	102	0.00
36 T	Benzene	10.000	11.458	-14.6	97	0.00
37 T	1,2-Dichloroethane	10.000	12.686	-26.9	106	0.00
38 T	Trichloroethene	10.000	10.413	-4.1	92	0.00
39 T	1,2-Dichloropropane	10.000	11.970	-19.7	104	0.00
40 T	1,4-Dioxane	10.000	10.096	-1.0	91	0.00
41 T	Tetrahydrofuran	10.000	11.863	-18.6	101	0.00
42 T	Bromodichloromethane	10.000	12.136	-21.4	103	0.00
43	Methyl Methacrylate	10.000	10.776	-7.8	93	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.642	-16.4	101	0.00
45 T	t-1,3-Dichloropropene	10.000	10.411	-4.1	87	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.851	-8.5	90	0.00
47 T	1,1,2-Trichloroethane	10.000	11.666	-16.7	102	0.00
48 T	Dibromochloromethane	10.000	11.430	-14.3	95	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042900.D
 Acq On : 08 Sep 2025 11:05
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	11.158	-11.6	91	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.801	-18.0	99	0.00
51 T	2-Hexanone	10.000	11.872	-18.7	98	0.00
52 T	Tetrachloroethene	10.000	9.547	4.5	85	0.00
53 T	Toluene	10.000	10.587	-5.9	91	0.00
54 T	1,2-Dibromoethane	10.000	11.307	-13.1	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	76	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.648	-16.5	97	0.00
57 T	Chlorobenzene	10.000	11.581	-15.8	96	0.00
58 T	Ethyl Benzene	10.000	11.184	-11.8	92	0.00
59 T	m/p-Xylene	20.000	23.388	-16.9	96	0.00
60 T	o-Xylene	10.000	11.716	-17.2	98	0.00
61 T	Styrene	10.000	10.579	-5.8	86	0.00
62	Isopropylbenzene	10.000	11.394	-13.9	96	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.314	-23.1	107	0.00
64	n-propylbenzene	10.000	11.220	-12.2	94	0.00
65	tert-Butylbenzene	10.000	11.075	-10.7	94	0.00
66 T	Benzyl Chloride	10.000	7.895	21.1	60	0.00
67	sec-Butylbenzene	10.000	11.709	-17.1	100	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.483	-4.8	80	0.00
69	p-Isopropyltoluene	10.000	10.929	-9.3	95	0.00
70	n-Butylbenzene	10.000	11.736	-17.4	100	0.00
71	2-Chlorotoluene	10.000	11.156	-11.6	95	0.00
72 T	4-Ethyltoluene	10.000	11.624	-16.2	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.105	-11.1	94	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.424	-14.2	99	0.00
75 T	1,3-Dichlorobenzene	10.000	11.445	-14.5	94	0.00
76 T	1,4-Dichlorobenzene	10.000	11.226	-12.3	93	0.00
77 T	1,2-Dichlorobenzene	10.000	11.351	-13.5	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.266	17.3	79	0.00
79 T	Naphthalene	10.000	10.613	-6.1	88	0.00
80 T	Naphthalene,2-methyl-	10.000	8.470	15.3	72	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.226	-2.3	85	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>Q3052</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>09/10/2025</u> <u>09:36</u>
Lab File ID:	<u>VL042921.D</u>	Init. Calib. Date(s):	<u>08/13/2025</u> <u>08/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:30</u> <u>12:06</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.582	0.557		-4.3	30
trans-1,2-Dichloroethene	0.586	0.590		0.68	30
1,1-Dichloroethane	1.171	1.178		0.6	30
cis-1,2-Dichloroethene	1.476	1.360		-7.86	30
1,1,1-Trichloroethane	2.230	1.999		-10.36	30
1,2-Dichloroethane	0.500	0.609		21.8	30
Trichloroethene	0.437	0.443		1.37	30
Tetrachloroethene	0.346	0.322		-6.94	30
1-Bromo-4-Fluorobenzene	0.750	0.787		4.93	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\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 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 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:09:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	144491	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	369791	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.878	117	305623	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 240462 10.491 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	219399	10.361	ppbv	98
3) Chlorodifluoromethane	1.473	51	246673	10.538	ppbv	97
4) Chloromethane	1.531	50	85744	10.034	ppbv	99
5) Vinyl Chloride	1.580	62	80418	9.555	ppbv	99
6) Bromomethane	1.667	94	32182	9.563	ppbv	94
7) Chloroethane	1.703	64	30351	9.235	ppbv	91
8) Dichlorotetrafluoroethane	1.554	85	179453	10.356	ppbv	95
9) Propene	1.479	41	59661	5.902	ppbv	89
10) Heptane	4.978	43	260221	9.611	ppbv	98
11) Trichlorofluoromethane	1.878	101	206293	9.874	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	167643	10.067	ppbv	95
13) Ethanol	1.719	45	6825	7.384	ppbv	92
14) Bromoethene	1.780	108	59848	9.928	ppbv	99
15) Acetone	1.835	43	165034	8.634	ppbv	99
16) 1,3-Butadiene	1.609	39	78297	9.036	ppbv	98
17) tert-Butyl alcohol	2.039	59	183075	8.077	ppbv	100
18) 1,1-Dichloroethene	2.033	96	74153	10.129	ppbv	93
19) Isopropyl Alcohol	1.884	45	98538	8.632	ppbv	92
20) Methylene Chloride	2.059	84	63489	7.929	ppbv	85
21) Allyl Chloride	2.094	41	129434	9.586	ppbv	95
22) trans-1,2-Dichloroethene	2.340	96	85301	10.071	ppbv	99
23) Vinyl Acetate	2.460	43	261874	9.965	ppbv	99
24) 1,1-Dichloroethane	2.408	63	170273	10.066	ppbv	99
25) Ethyl Acetate	2.832	43	468275	10.123	ppbv	98
26) Hexane	2.823	57	208072	9.745	ppbv	93
27) Carbon Disulfide	2.149	76	212382	10.221	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	92228	8.471	ppbv	93
29) Chloroform	2.845	83	303826	9.966	ppbv	99
30) Cyclohexane	3.855	84	168007	8.974	ppbv	95
31) cis-1,2-Dichloroethene	2.719	61	196556	9.216	ppbv	97
32) 1,1,1-Trichloroethane	3.366	97	288888	8.966	ppbv	97
34) 2-Butanone	2.557	43	294642	11.800	ppbv	99
35) Carbon Tetrachloride	3.761	117	286634	11.243	ppbv	99
36) Benzene	3.654	78	404205	11.415	ppbv	98
37) 1,2-Dichloroethane	3.217	62	225218	12.174	ppbv	99
38) Trichloroethene	4.545	130	163714	10.123	ppbv	94
39) 1,2-Dichloropropane	4.311	63	154962	11.982	ppbv	98
40) 1,4-Dioxane	4.577	88	58073	9.443	ppbv #	86
41) Tetrahydrofuran	3.052	42	160811	11.551	ppbv	97
42) Bromodichloromethane	4.486	83	328462	11.915	ppbv	98
43) Methyl Methacrylate	4.875	69	155022	10.627	ppbv	98
44) 2,2,4-Trimethylpentane	4.635	57	706023	11.747	ppbv	98
45) t-1,3-Dichloropropene	6.415	75	162626m	9.879	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 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 09/11/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:09:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	216444	10.552	ppbv	99
47) 1,1,2-Trichloroethane	6.577	97	156830	11.446	ppbv	96
48) Dibromochloromethane	7.383	129	251601	11.347	ppbv	98
49) Bromoform	9.484	173	200058	10.940	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	395608	11.721	ppbv	96
51) 2-Hexanone	7.432	43	311297	11.721	ppbv #	95
52) Tetrachloroethene	8.225	164	119161	9.302	ppbv	95
53) Toluene	6.930	91	439287	10.435	ppbv	99
54) 1,2-Dibromoethane	7.648	107	219380	10.955	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.924	131	186640	11.809	ppbv	98
57) Chlorobenzene	8.920	112	340369	11.713	ppbv #	97
58) Ethyl Benzene	9.354	91	606281	11.241	ppbv	100
59) m/p-Xylene	9.548	91	999819m	23.651	ppbv	
60) o-Xylene	9.963	91	502791	11.823	ppbv	100
61) Styrene	9.869	104	206921	10.386	ppbv	99
62) Isopropylbenzene	10.539	105	710629	11.435	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.963	83	299792	12.819	ppbv	99
64) n-propylbenzene	10.989	120	183438	11.569	ppbv	93
65) tert-Butylbenzene	11.529	119	616689	11.256	ppbv	97
66) Benzyl Chloride	11.613	91	58646	8.432	ppbv	98
67) sec-Butylbenzene	11.765	105	896657	11.660	ppbv	98
69) p-Isopropyltoluene	11.924	119	727408	11.018	ppbv	99
70) n-Butylbenzene	12.280	91	766483	11.706	ppbv	99
71) 2-Chlorotoluene	10.901	91	542770	11.248	ppbv	96
72) 4-Ethyltoluene	11.125	105	593493	11.513	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	489404	11.164	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	561027	11.659	ppbv	97
75) 1,3-Dichlorobenzene	11.607	146	316381	11.566	ppbv	98
76) 1,4-Dichlorobenzene	11.672	146	317342	11.471	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	305223	11.395	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	180011	8.200	ppbv	99
79) Naphthalene	13.513	128	460877	10.565	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	127495	7.821	ppbv	99
81) 1,2,4-Trichlorobenzene	13.439	180	221503	10.102	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 11 01:09:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	109	0.00
2 T	Dichlorodifluoromethane	1.466	1.518	-3.5	123	0.00
3	Chlorodifluoromethane	1.620	1.707	-5.4	123	0.00
4	Chloromethane	0.591	0.593	-0.3	121	0.00
5 T	Vinyl Chloride	0.582	0.557	4.3	120	0.00
6 T	Bromomethane	0.233	0.223	4.3	119	0.00
7	Chloroethane	0.227	0.210	7.5	113	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.242	-3.6	120	0.00
9 T	Propene	0.700	0.413	41.0#	68	0.00
10 T	Heptane	1.874	1.801	3.9	114	0.02
11 T	Trichlorofluoromethane	1.446	1.428	1.2	122	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.160	-0.7	120	0.00
13	Ethanol	0.064	0.047#	26.6	111	0.00
14 T	Bromoethene	0.417	0.414	0.7	118	0.00
15 T	Acetone	1.323	1.142	13.7	131	0.00
16 T	1,3-Butadiene	0.600	0.542	9.7	118	0.00
17	tert-Butyl alcohol	1.569	1.267	19.2	100	0.00
18 T	1,1-Dichloroethene	0.507	0.513	-1.2	119	0.00
19 T	Isopropyl Alcohol	0.790	0.682	13.7	114	0.00
20 T	Methylene Chloride	0.554	0.439	20.8	115	0.00
21 T	Allyl Chloride	0.935	0.896	4.2	114	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.590	-0.7	119	0.00
23 T	Vinyl Acetate	1.819	1.812	0.4	118	0.00
24 T	1,1-Dichloroethane	1.171	1.178	-0.6	123	0.00
25 T	Ethyl Acetate	3.202	3.241	-1.2	120	0.00
26 T	Hexane	1.478	1.440	2.6	112	0.00
27 T	Carbon Disulfide	1.438	1.470	-2.2	121	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.638	15.4	105	0.00
29 T	Chloroform	2.110	2.103	0.3	118	0.00
30 T	Cyclohexane	1.296	1.163	10.3	104	0.01
31 T	cis-1,2-Dichloroethene	1.476	1.360	7.9	110	0.00
32 T	1,1,1-Trichloroethane	2.230	1.999	10.4	109	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.01
34 T	2-Butanone	0.675	0.797	-18.1	117	0.00
35 T	Carbon Tetrachloride	0.689	0.775	-12.5	109	0.01
36 T	Benzene	0.958	1.093	-14.1	107	0.00
37 T	1,2-Dichloroethane	0.500	0.609	-21.8	113	0.00
38 T	Trichloroethene	0.437	0.443	-1.4	99	0.01
39 T	1,2-Dichloropropane	0.350	0.419	-19.7	116	0.01
40 T	1,4-Dioxane	0.166	0.157	5.4	95	0.02
41 T	Tetrahydrofuran	0.376	0.435	-15.7	109	0.00
42 T	Bromodichloromethane	0.745	0.888	-19.2	112	0.01
43	Methyl Methacrylate	0.394	0.419	-6.3	102	0.02
44 T	2,2,4-Trimethylpentane	1.625	1.909	-17.5	113	0.01
45 T	t-1,3-Dichloropropene	0.445	0.440	1.1	92	0.02
46 T	cis-1,3-Dichloropropene	0.555	0.585	-5.4	97	0.02
47 T	1,1,2-Trichloroethane	0.371	0.424	-14.3	111	0.02
48 T	Dibromochloromethane	0.600	0.680	-13.3	104	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 11 01:09:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	0.495	0.541	-9.3	99	0.01
50 T	4-Methyl-2-Pentanone	0.913	1.070	-17.2	109	0.02
51 T	2-Hexanone	0.718	0.842	-17.3	108	0.01
52 T	Tetrachloroethene	0.346	0.322	6.9	92	0.01
53 T	Toluene	1.138	1.188	-4.4	99	0.02
54 T	1,2-Dibromoethane	0.542	0.593	-9.4	105	0.01
55 I	Chlorobenzene-d5	1.000	1.000	0.0	83	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.611	-18.2	106	0.00
57 T	Chlorobenzene	0.951	1.114	-17.1	105	0.00
58 T	Ethyl Benzene	1.765	1.984	-12.4	100	0.00
59 T	m/p-Xylene	1.383	1.636	-18.3	105	0.00
60 T	o-Xylene	1.391	1.645	-18.3	107	0.00
61 T	Styrene	0.652	0.677	-3.8	92	0.00
62	Isopropylbenzene	2.033	2.325	-14.4	104	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.981	-28.2	120	0.00
64	n-propylbenzene	0.519	0.600	-15.6	104	0.00
65	tert-Butylbenzene	1.793	2.018	-12.5	104	0.00
66 T	Benzyl Chloride	0.228	0.192	15.8	70	0.00
67	sec-Butylbenzene	2.516	2.934	-16.6	108	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.787	-4.9	86	0.01
69	p-Isopropyltoluene	2.160	2.380	-10.2	103	0.00
70	n-Butylbenzene	2.142	2.508	-17.1	107	0.00
71	2-Chlorotoluene	1.579	1.776	-12.5	103	0.00
72 T	4-Ethyltoluene	1.687	1.942	-15.1	103	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.601	-11.6	102	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.836	-16.6	109	0.00
75 T	1,3-Dichlorobenzene	0.895	1.035	-15.6	103	0.00
76 T	1,4-Dichlorobenzene	0.905	1.038	-14.7	103	0.00
77 T	1,2-Dichlorobenzene	0.876	0.999	-14.0	106	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.589	18.0	85	0.00
79 T	Naphthalene	1.427	1.508	-5.7	95	0.00
80 T	Naphthalene,2-methyl-	0.533	0.417	21.8	72	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.725	-1.1	90	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 11 01:09:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	109	0.00
2 T	Dichlorodifluoromethane	10.000	10.361	-3.6	123	0.00
3	Chlorodifluoromethane	10.000	10.538	-5.4	123	0.00
4	Chloromethane	10.000	10.034	-0.3	121	0.00
5 T	Vinyl Chloride	10.000	9.555	4.5	120	0.00
6 T	Bromomethane	10.000	9.563	4.4	119	0.00
7	Chloroethane	10.000	9.235	7.7	113	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.356	-3.6	120	0.00
9 T	Propene	10.000	5.902	41.0#	68	0.00
10 T	Heptane	10.000	9.611	3.9	114	0.02
11 T	Trichlorofluoromethane	10.000	9.874	1.3	122	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.067	-0.7	120	0.00
13	Ethanol	10.000	7.384	26.2	111	0.00
14 T	Bromoethene	10.000	9.928	0.7	118	0.00
15 T	Acetone	10.000	8.634	13.7	131	0.00
16 T	1,3-Butadiene	10.000	9.036	9.6	118	0.00
17	tert-Butyl alcohol	10.000	8.077	19.2	100	0.00
18 T	1,1-Dichloroethene	10.000	10.129	-1.3	119	0.00
19 T	Isopropyl Alcohol	10.000	8.632	13.7	114	0.00
20 T	Methylene Chloride	10.000	7.929	20.7	115	0.00
21 T	Allyl Chloride	10.000	9.586	4.1	114	0.00
22 T	trans-1,2-Dichloroethene	10.000	10.071	-0.7	119	0.00
23 T	Vinyl Acetate	10.000	9.965	0.4	118	0.00
24 T	1,1-Dichloroethane	10.000	10.066	-0.7	123	0.00
25 T	Ethyl Acetate	10.000	10.123	-1.2	120	0.00
26 T	Hexane	10.000	9.745	2.6	112	0.00
27 T	Carbon Disulfide	10.000	10.221	-2.2	121	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.471	15.3	105	0.00
29 T	Chloroform	10.000	9.966	0.3	118	0.00
30 T	Cyclohexane	10.000	8.974	10.3	104	0.01
31 T	cis-1,2-Dichloroethene	10.000	9.216	7.8	110	0.00
32 T	1,1,1-Trichloroethane	10.000	8.966	10.3	109	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	89	0.01
34 T	2-Butanone	10.000	11.800	-18.0	117	0.00
35 T	Carbon Tetrachloride	10.000	11.243	-12.4	109	0.01
36 T	Benzene	10.000	11.415	-14.1	107	0.00
37 T	1,2-Dichloroethane	10.000	12.174	-21.7	113	0.00
38 T	Trichloroethene	10.000	10.123	-1.2	99	0.01
39 T	1,2-Dichloropropane	10.000	11.982	-19.8	116	0.01
40 T	1,4-Dioxane	10.000	9.443	5.6	95	0.02
41 T	Tetrahydrofuran	10.000	11.551	-15.5	109	0.00
42 T	Bromodichloromethane	10.000	11.915	-19.1	112	0.01
43	Methyl Methacrylate	10.000	10.627	-6.3	102	0.02
44 T	2,2,4-Trimethylpentane	10.000	11.747	-17.5	113	0.01
45 T	t-1,3-Dichloropropene	10.000	9.879	1.2	92	0.02
46 T	cis-1,3-Dichloropropene	10.000	10.552	-5.5	97	0.02
47 T	1,1,2-Trichloroethane	10.000	11.446	-14.5	111	0.02
48 T	Dibromochloromethane	10.000	11.347	-13.5	104	0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042921.D
 Acq On : 10 Sep 2025 09:36
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Sep 11 01:09:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 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	10.940	-9.4	99	0.01
50 T	4-Methyl-2-Pentanone	10.000	11.721	-17.2	109	0.02
51 T	2-Hexanone	10.000	11.721	-17.2	108	0.01
52 T	Tetrachloroethene	10.000	9.302	7.0	92	0.01
53 T	Toluene	10.000	10.435	-4.4	99	0.02
54 T	1,2-Dibromoethane	10.000	10.955	-9.6	105	0.01
55 I	Chlorobenzene-d5	10.000	10.000	0.0	83	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.809	-18.1	106	0.00
57 T	Chlorobenzene	10.000	11.713	-17.1	105	0.00
58 T	Ethyl Benzene	10.000	11.241	-12.4	100	0.00
59 T	m/p-Xylene	20.000	23.651	-18.3	105	0.00
60 T	o-Xylene	10.000	11.823	-18.2	107	0.00
61 T	Styrene	10.000	10.386	-3.9	92	0.00
62	Isopropylbenzene	10.000	11.435	-14.4	104	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.819	-28.2	120	0.00
64	n-propylbenzene	10.000	11.569	-15.7	104	0.00
65	tert-Butylbenzene	10.000	11.256	-12.6	104	0.00
66 T	Benzyl Chloride	10.000	8.432	15.7	70	0.00
67	sec-Butylbenzene	10.000	11.660	-16.6	108	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.491	-4.9	86	0.01
69	p-Isopropyltoluene	10.000	11.018	-10.2	103	0.00
70	n-Butylbenzene	10.000	11.706	-17.1	107	0.00
71	2-Chlorotoluene	10.000	11.248	-12.5	103	0.00
72 T	4-Ethyltoluene	10.000	11.513	-15.1	103	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.164	-11.6	102	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.659	-16.6	109	0.00
75 T	1,3-Dichlorobenzene	10.000	11.566	-15.7	103	0.00
76 T	1,4-Dichlorobenzene	10.000	11.471	-14.7	103	0.00
77 T	1,2-Dichlorobenzene	10.000	11.395	-13.9	106	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.200	18.0	85	0.00
79 T	Naphthalene	10.000	10.565	-5.6	95	0.00
80 T	Naphthalene,2-methyl-	10.000	7.821	21.8	72	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.102	-1.0	90	0.00

(#) = Out of Range

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



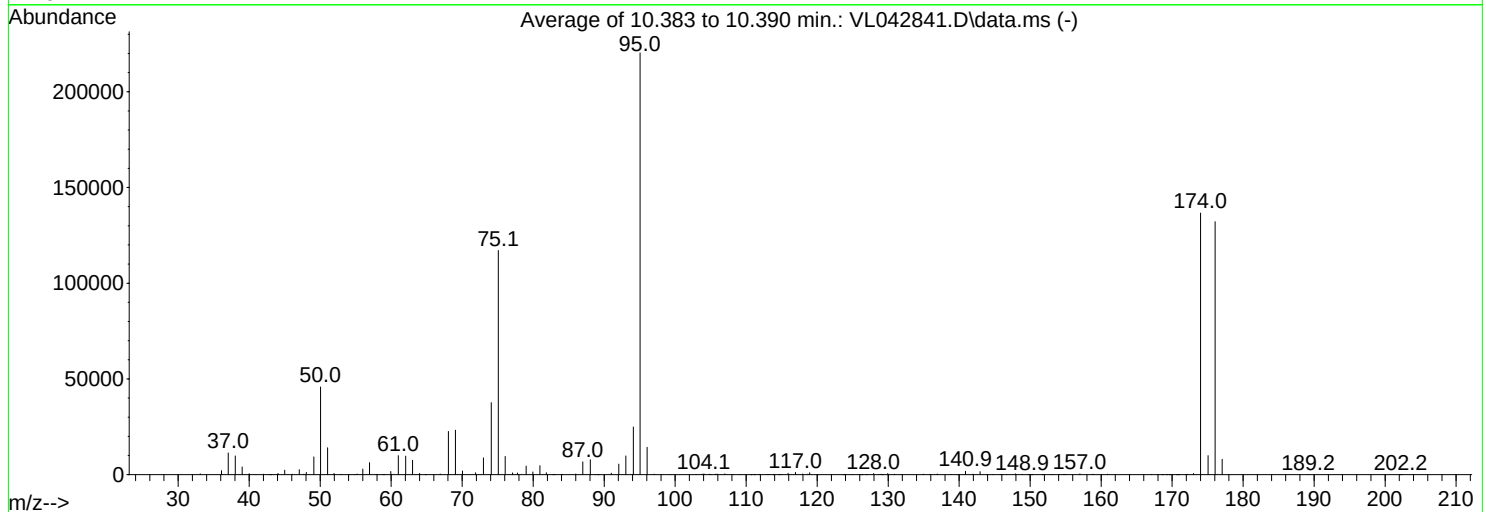
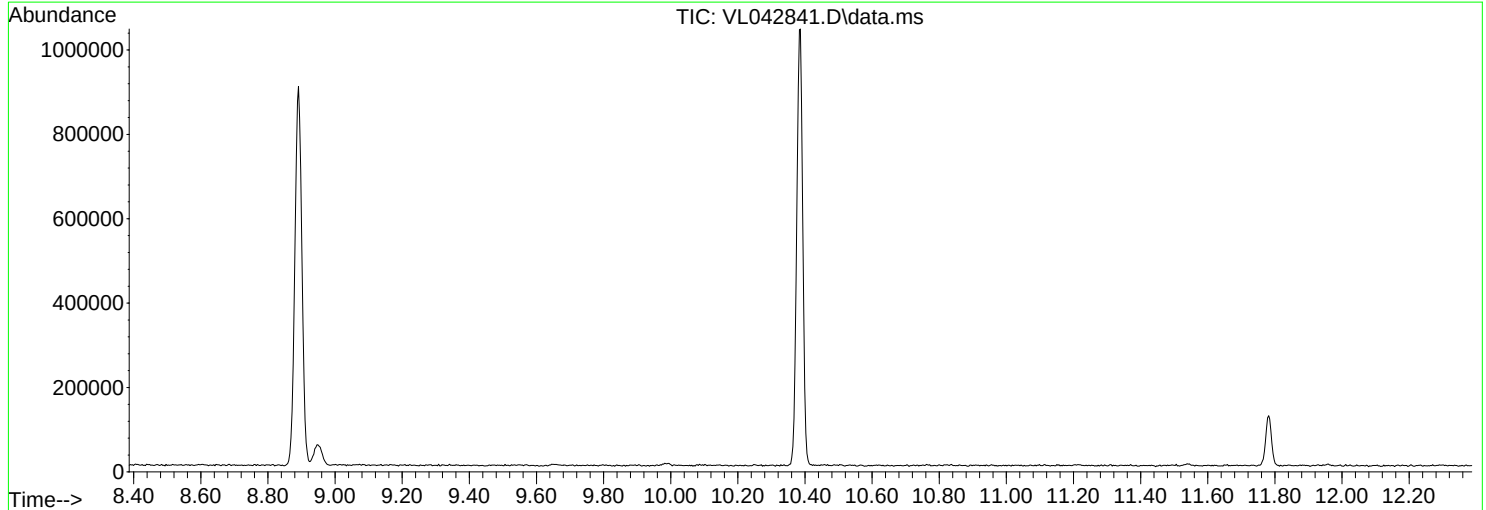
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042841.D
Acq On : 13 Aug 2025 07:45
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	132147	PASS
177	176	5	9	6.1	8054	PASS

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	435	45.00	2327	54.85	120	64.00	681
36.10	2065	46.05	279	55.20	357	64.80	30
37.05	11354	47.05	2620	56.00	2948	65.95	9
38.05	9819	47.70	280	56.95	6253	66.90	32
39.00	4004	48.05	1145	57.90	171	68.05	22548
40.00	533	49.10	9251	58.10	91	69.05	23213
40.95	49	50.05	45819	58.90	22	70.05	1937
42.00	227	51.05	14036	59.95	1687	71.90	1041
42.80	161	51.95	671	61.00	9948	73.00	8793
43.05	39	52.95	188	62.05	9678	74.10	37600
44.05	666	53.95	37	63.00	7566	75.10	117101

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	9555	87.00	6682	98.15	54	109.10	102
77.10	918	88.05	7760	99.30	64	110.70	18
77.80	815	88.80	77	102.95	130	111.15	1
79.00	4555	89.10	20	103.80	231	111.85	129
79.95	1463	91.00	725	104.05	430	112.95	69
80.95	4661	92.05	5511	104.85	224	113.20	121
81.85	1009	93.05	9746	105.05	89	113.80	17
82.80	45	94.10	24915	105.70	222	114.60	40
83.10	154	95.05	220336	105.90	378	115.00	164
84.10	59	96.05	14308	107.00	405	115.90	792
86.00	343	97.05	232	108.25	56	116.95	1160

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.95	357	127.95	629	138.85	68	147.95	426
118.70	248	128.70	103	139.80	86	148.90	159
118.95	989	129.00	282	140.05	107	149.70	172
120.00	35	129.20	46	140.90	1771	149.90	92
121.95	196	129.95	557	141.95	222	150.20	25
123.70	34	130.90	241	142.95	1603	151.70	42
124.00	187	131.95	49	143.90	46	152.10	65
125.00	93	134.00	75	144.75	112	152.90	115
125.90	42	134.95	263	145.80	52	153.10	90
126.30	20	135.85	80	146.05	101	154.10	102
126.90	38	136.90	300	146.70	83	154.70	65

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

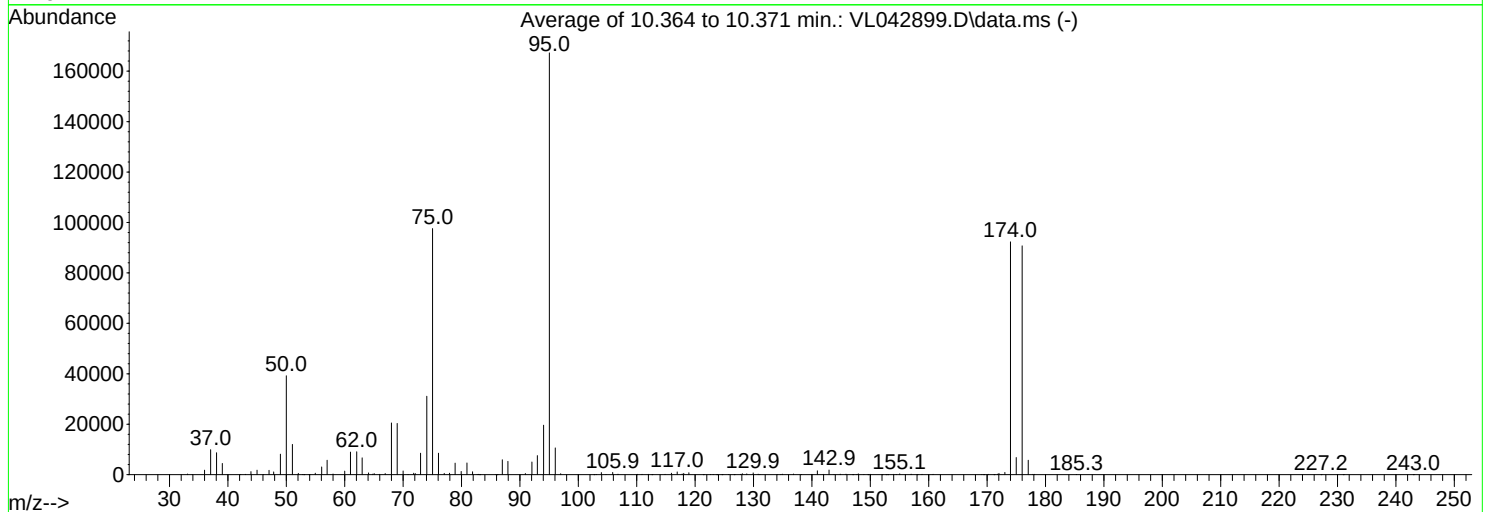
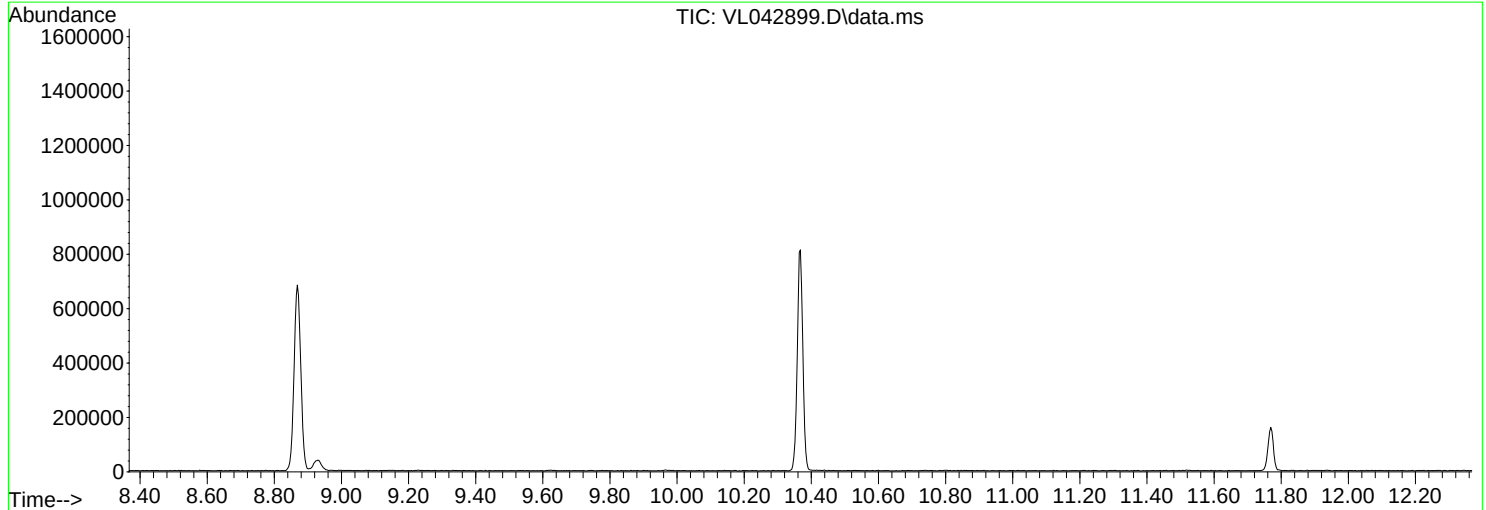
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.90	185	170.60	19	189.20	100		
155.10	115	170.90	27	202.20	25		
157.00	453	171.05	82				
158.85	271	171.90	66				
160.90	247	172.20	170				
167.10	83	173.00	581				
168.00	69	174.00	136669				
168.60	43	175.05	9984				
169.20	47	176.05	132147				
169.60	20	177.05	8054				
170.05	75	177.95	182				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042899.D
Acq On : 08 Sep 2025 08:41
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 09 00:52:26 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	39187	PASS
75	95	30	66	58.3	97600	PASS
95	95	100	100	100.0	167275	PASS
96	95	5	9	6.4	10626	PASS
173	174	0.00	2	1.0	912	PASS
174	95	50	120	55.2	92299	PASS
175	174	4	9	7.3	6771	PASS
176	174	93	101	98.3	90712	PASS
177	176	5	9	6.3	5742	PASS

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	277	47.05	1703	57.00	5718	68.00	2049
33.90	76	47.85	1098	58.00	264	69.00	2031
36.00	1753	49.00	8120	60.00	1371	70.00	145
37.05	9902	50.00	39187	61.00	8956	70.85	8
38.05	8709	51.05	12023	62.05	9092	71.80	573
39.05	4451	52.05	538	63.00	6674	72.10	455
42.20	43	52.80	70	64.10	689	73.00	8527
43.00	155	53.00	34	64.80	191	74.05	31123
43.95	1185	53.90	19	65.05	457	75.05	97600
45.00	1756	54.95	607	65.95	113	76.05	8503
46.10	88	56.05	3033	66.95	475	77.05	485

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.95	573	87.95	5283	104.75	99	118.05	490
78.90	4606	90.95	451	105.90	886	118.95	748
79.95	1303	92.05	4997	106.80	189	121.40	28
80.95	4620	93.00	7539	110.15	132	122.65	45
81.90	1148	94.05	19635	110.90	167	123.10	45
82.70	56	95.05	167275	112.00	165	123.70	23
82.90	163	96.05	10626	112.60	37	124.60	30
83.10	23	97.00	366	114.85	160	125.75	80
85.90	69	102.70	25	115.95	603	126.70	21
86.10	24	103.10	60	116.95	1113	127.80	118
87.00	5921	103.95	835	117.80	269	128.10	385

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
128.85	290	141.95	142	152.00	18	169.10	55
129.95	727	142.95	1818	152.70	36	169.40	20
130.80	191	143.80	58	153.00	24	170.20	135
131.10	55	144.85	184	154.00	144	171.20	19
134.05	42	145.85	181	154.45	64	171.80	185
134.70	75	147.00	27	155.05	308	172.05	532
134.95	219	147.70	102	156.00	56	173.05	912
136.85	269	147.95	342	157.00	194	174.00	92299
138.20	68	148.90	78	158.00	17	175.00	6771
140.00	141	149.60	29	158.85	156	176.00	90712
140.95	1550	150.00	159	160.75	151	177.05	5742

Average of 10.364 to 10.371 min.: VL042899.D\data.ms

BFB

Modified:subtracted

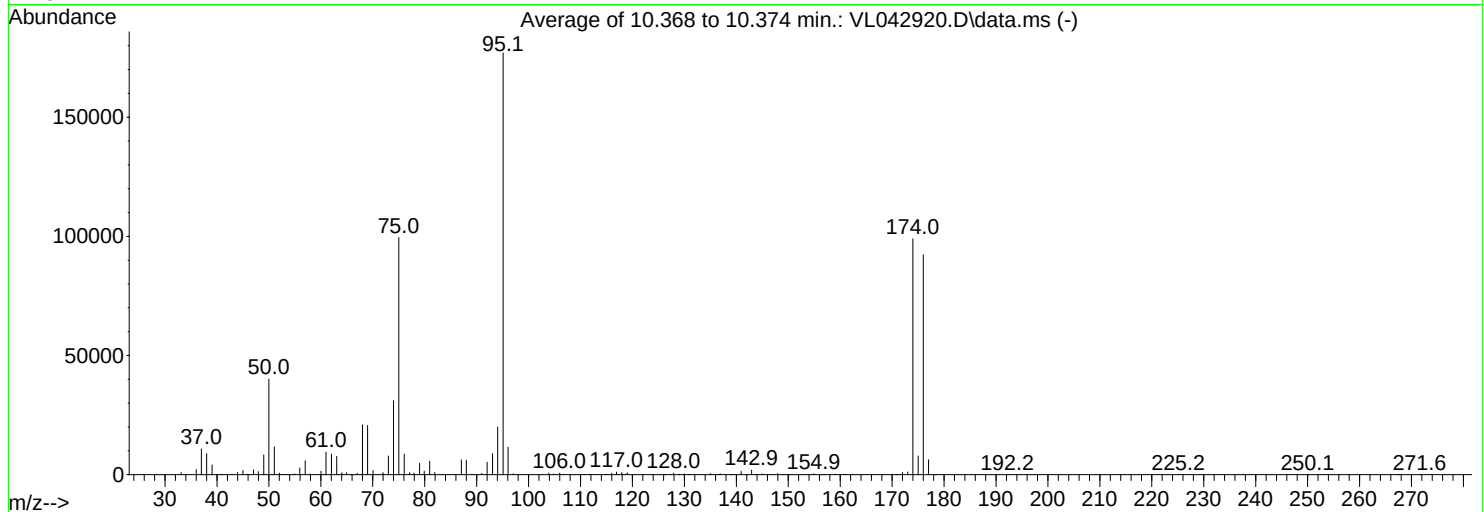
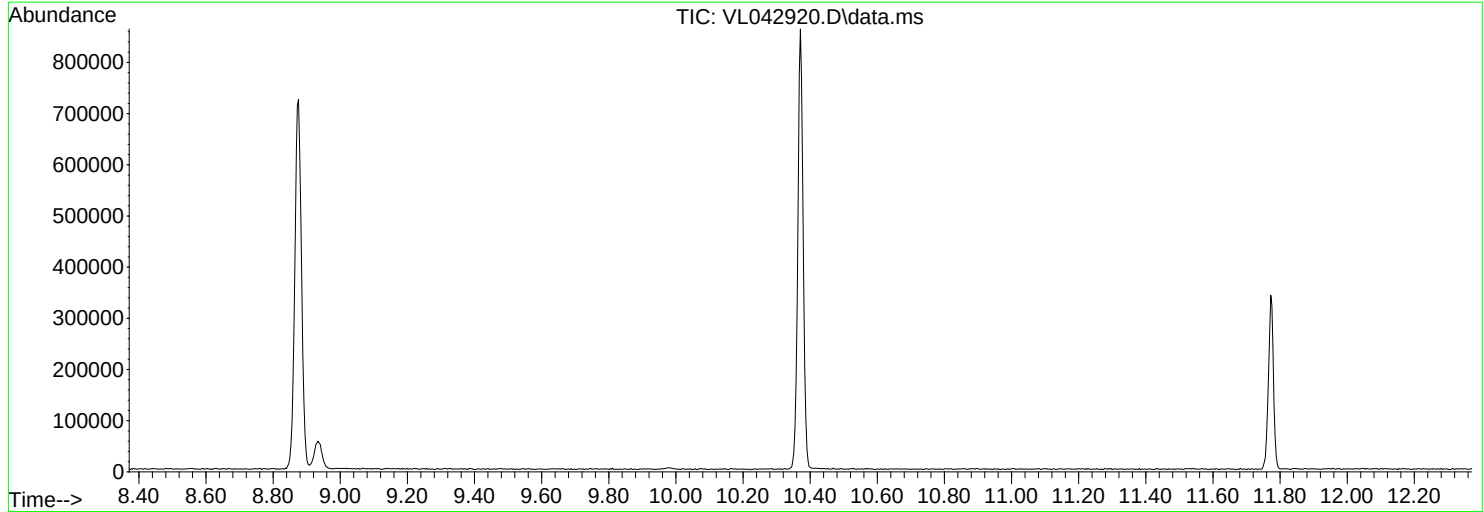
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.85	114						
178.10	127						
185.30	42						
227.20	22						
231.00	19						
243.00	18						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
Data File : VL042920.D
Acq On : 10 Sep 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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Sep 09 00:52:26 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	40072	PASS
75	95	30	66	56.2	99493	PASS
95	95	100	100	100.0	177003	PASS
96	95	5	9	6.5	11579	PASS
173	174	0.00	2	1.1	1122	PASS
174	95	50	120	55.9	98960	PASS
175	174	4	9	8.0	7895	PASS
176	174	93	101	93.2	92245	PASS
177	176	5	9	6.8	6227	PASS

Average of 10.368 to 10.374 min.: VL042920.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	876	45.00	1774	53.85	119	64.95	78
33.80	16	45.90	104	54.80	163	65.80	2
34.10	149	46.20	69	55.00	306	67.00	57
36.00	2143	47.05	1988	55.95	2803	68.00	2086
37.00	10828	47.95	1311	57.00	5846	69.00	20629
38.00	8801	49.00	8294	57.95	341	70.05	1745
39.05	4125	50.00	40072	60.05	1509	71.95	902
40.80	37	51.05	11612	61.00	9493	73.00	7869
41.70	43	52.05	660	62.05	8604	74.00	31011
42.90	171	52.75	127	63.05	7688	75.00	99493
43.95	930	53.10	42	64.05	797	76.05	8630

Average of 10.368 to 10.374 min.: VL042920.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
77.10	850	91.00	535	109.60	51	118.80	290
77.95	675	92.00	5254	110.00	98	119.00	753
79.00	4773	93.05	8813	110.80	152	121.95	77
79.90	1505	94.05	19989	111.70	118	126.20	20
80.95	5631	95.10	177003	111.90	61	127.30	73
81.95	934	96.05	11579	112.85	172	127.95	598
82.90	103	97.05	357	114.80	54	128.90	69
85.65	136	103.90	701	115.05	124	129.05	232
87.05	6182	104.85	264	115.95	551	129.80	141
88.00	6018	106.00	622	116.95	1110	130.00	320
89.05	98	106.80	137	117.95	861	130.70	50

Average of 10.368 to 10.374 min.: VL042920.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
131.00	166	143.70	94	156.30	36	172.00	927
134.95	444	144.95	265	156.95	173	173.00	1122
135.90	39	145.95	180	159.05	183	174.00	98960
136.60	55	147.10	52	160.70	71	175.00	7895
136.90	322	147.95	404	161.05	168	176.00	92245
139.00	29	149.10	110	165.05	66	177.00	6227
140.00	103	149.80	31	168.45	142	177.90	133
140.95	1394	150.10	37	170.05	82	178.30	33
141.70	53	151.95	56	170.80	28	192.20	18
142.00	102	152.90	97	171.00	66	225.15	65
142.95	1868	154.95	336	171.60	97	250.05	38

Average of 10.368 to 10.374 min.: VL042920.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
267.50	25						
271.60	32						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	
Client Sample ID:	VL0908ABL01	SDG No.:	Q3052
Lab Sample ID:	VL0908ABL01	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
VL042901.D	1		09/08/25 11:55	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	141000		2.784			
540-36-3	1,4-Difluorobenzene	355000		3.952			
3114-55-4	Chlorobenzene-d5	299000		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\VL090825\
 Data File : VL042901.D
 Acq On : 08 Sep 2025 11:55
 Operator : SY/MD
 Sample : VL0908ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABL01

Quant Time: Sep 09 00:55:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	141293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	355217	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	298537	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	227668	10.169	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.700%

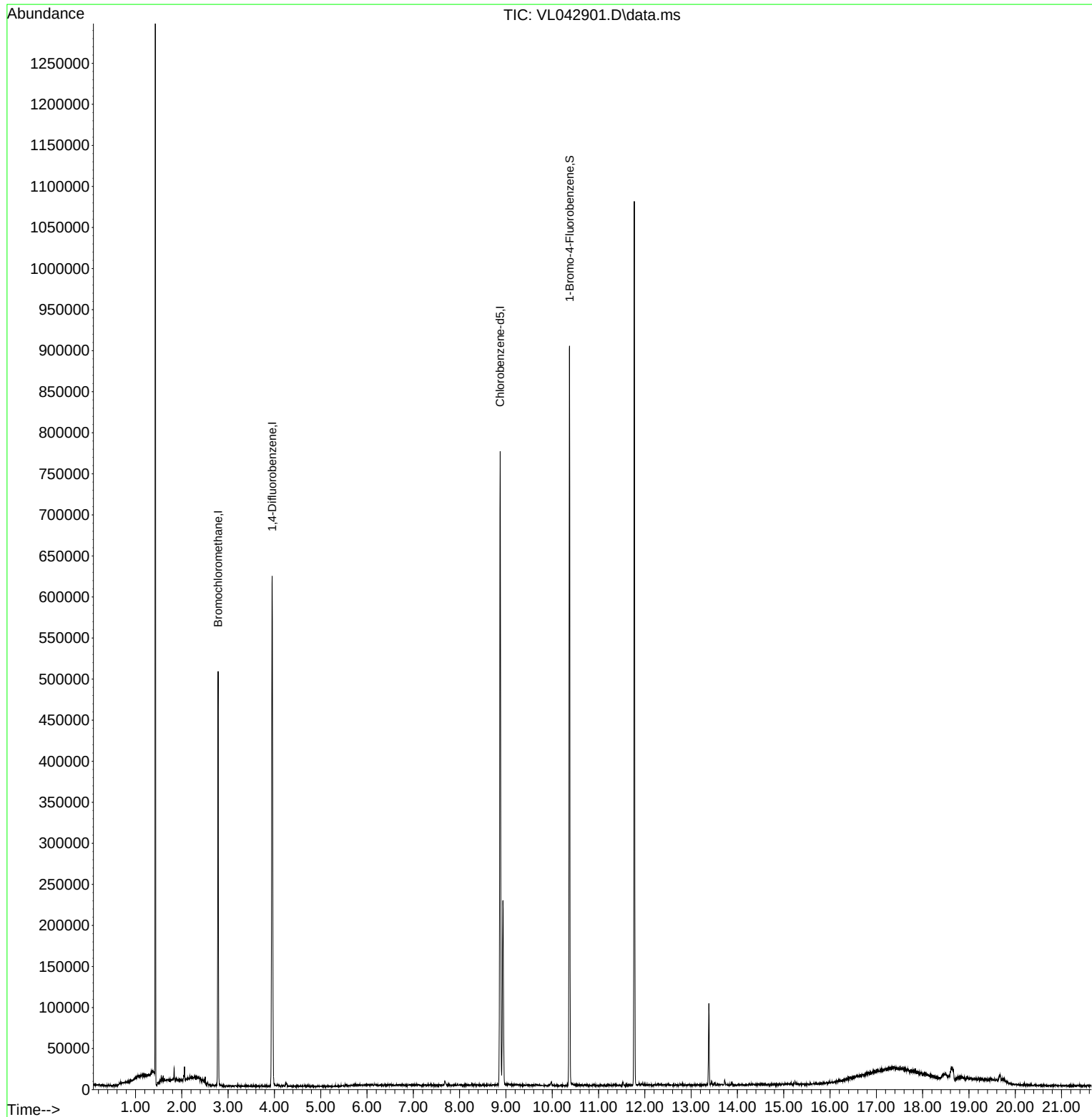
Target Compounds	Qvalue

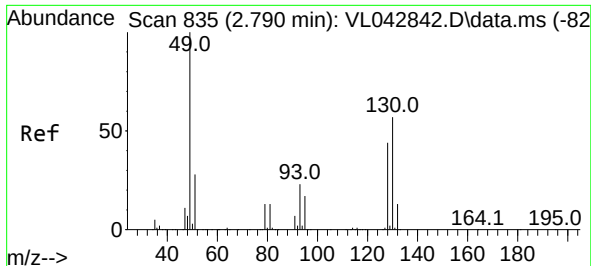
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
Data File : VL042901.D
Acq On : 08 Sep 2025 11:55
Operator : SY/MD
Sample : VL0908ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Quant Time: Sep 09 00:55:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

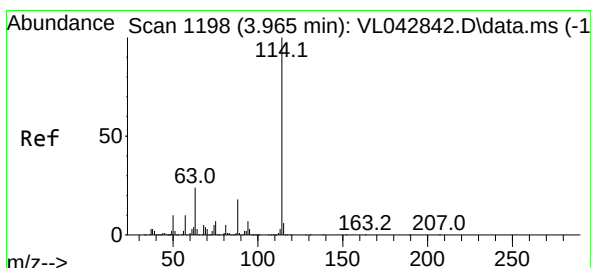
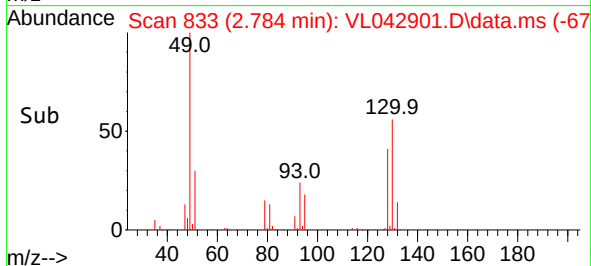
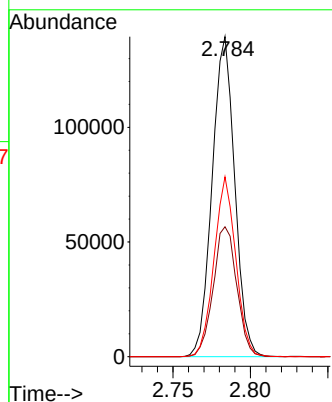
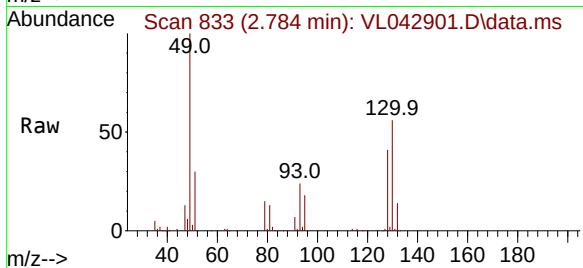




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

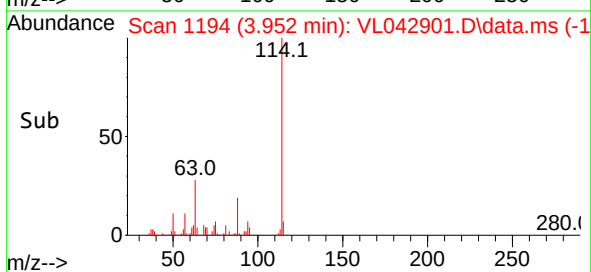
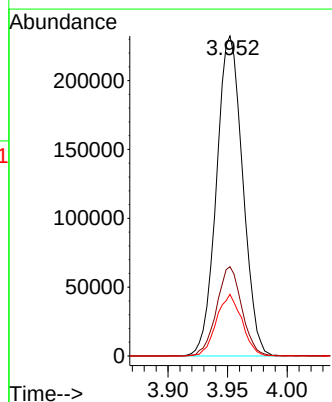
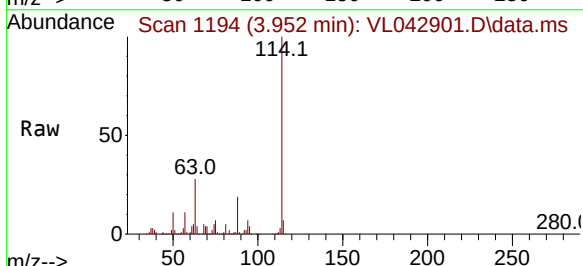
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

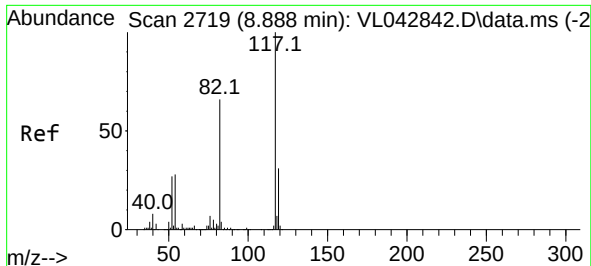
Tgt Ion: 49 Resp: 141293
Ion Ratio Lower Upper
49 100
128 42.4 23.7 71.1
130 54.2 30.6 91.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. 0.009 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Tgt Ion: 114 Resp: 355217
Ion Ratio Lower Upper
114 100
63 26.9 19.7 29.5
88 18.7 14.4 21.6

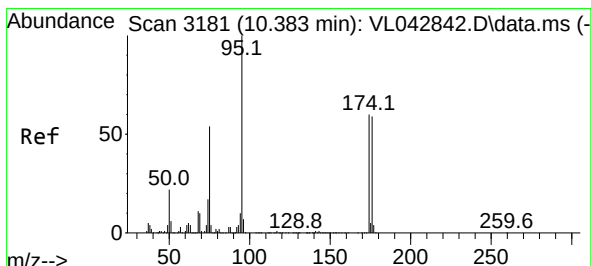
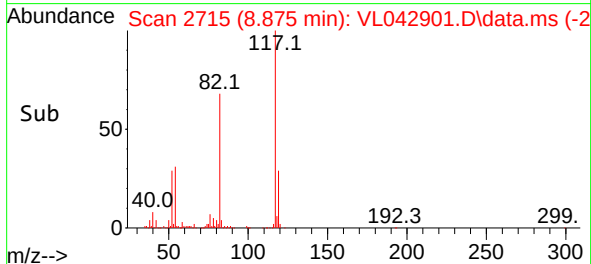
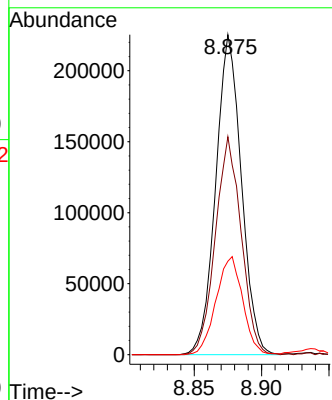
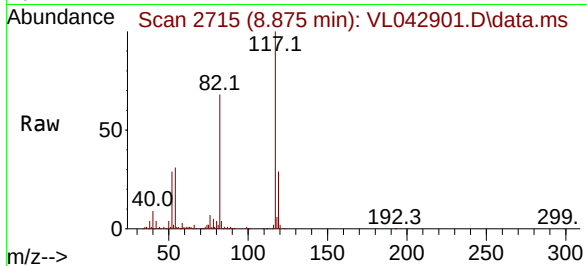




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

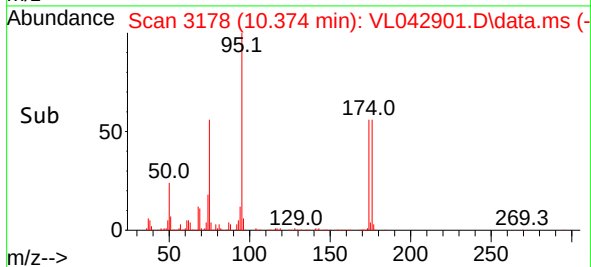
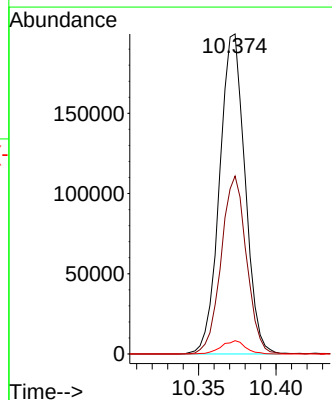
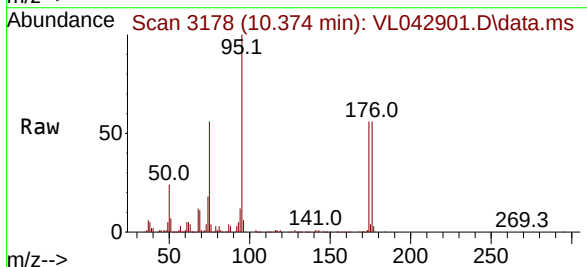
Instrument :
MSVOA_L
ClientSampleId :
VL0908ABL01

Tgt Ion:117 Resp: 298537
Ion Ratio Lower Upper
117 100
82 68.4 54.6 81.8
119 31.8 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.169 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.009 min
Lab File: VL042901.D
Acq: 08 Sep 2025 11:55

Tgt Ion: 95 Resp: 227668
Ion Ratio Lower Upper
95 100
174 55.5 48.4 72.6
175 3.9 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	
Client Sample ID:	VL0910ABL01	SDG No.:	Q3052
Lab Sample ID:	VL0910ABL01	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
VL042922.D	1		09/10/25 10:21	VL091025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
156-60-5	trans-1,2-Dichloroethene	0.12	0.48	U	0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	0.13	0.53	U	0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	137000		2.784			
540-36-3	1,4-Difluorobenzene	340000		3.949			
3114-55-4	Chlorobenzene-d5	284000		8.878			

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\VL091025\
 Data File : VL042922.D
 Acq On : 10 Sep 2025 10:21
 Operator : SY/MD
 Sample : VL0910ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABL01

Quant Time: Sep 11 01:10:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 09 00:52:26 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	137030	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	339612	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	283645	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	211755	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

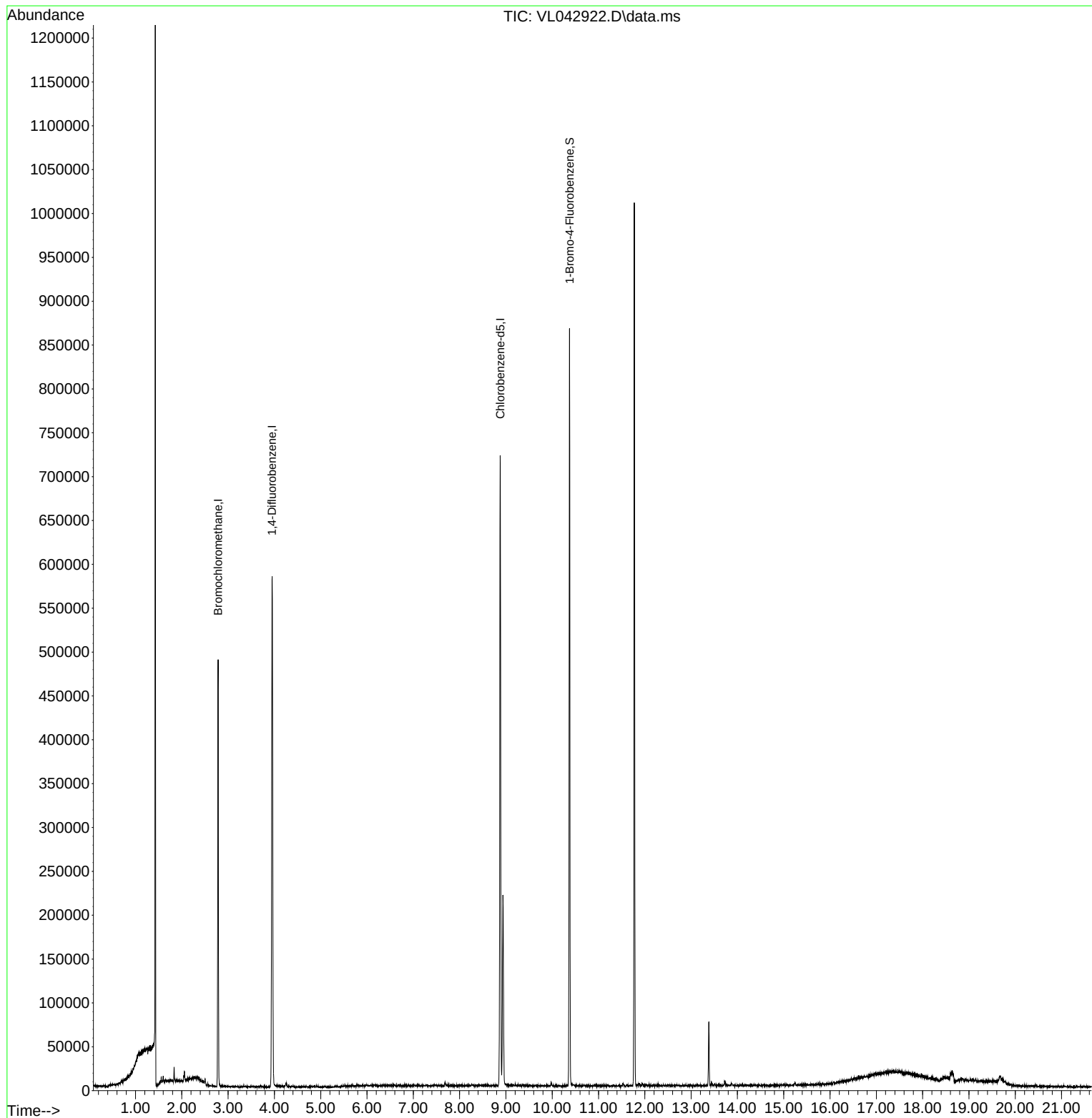
Target Compounds	Qvalue

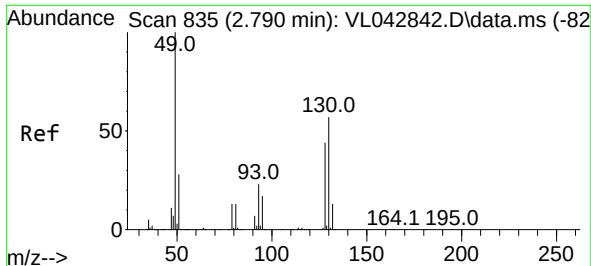
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
Data File : VL042922.D
Acq On : 10 Sep 2025 10:21
Operator : SY/MD
Sample : VL0910ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

Quant Time: Sep 11 01:10:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Sep 09 00:52:26 2025
Response via : Initial Calibration

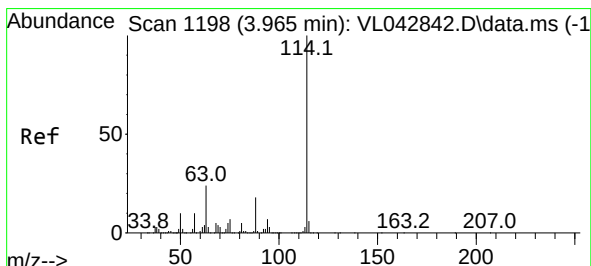
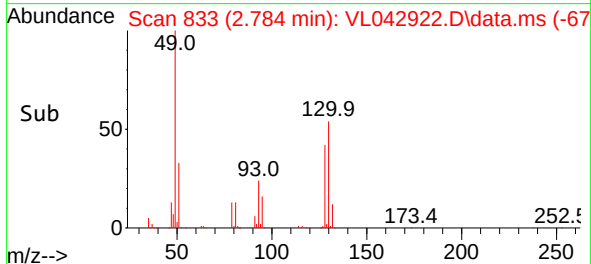
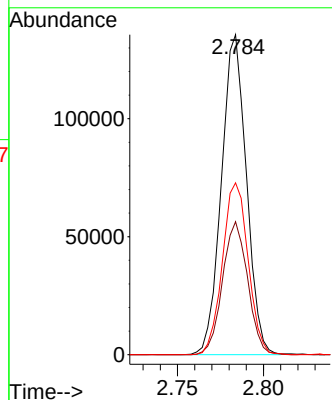
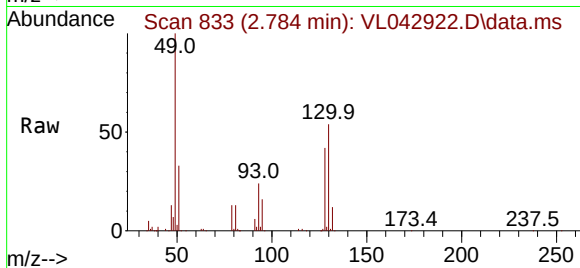




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. 0.007 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

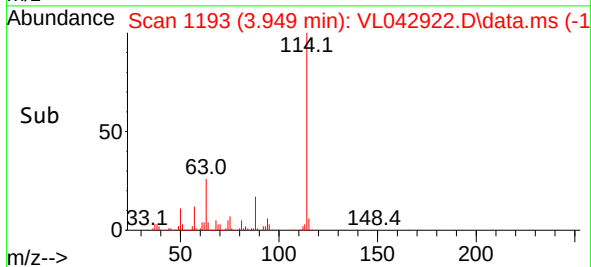
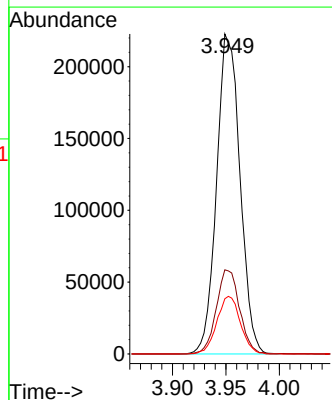
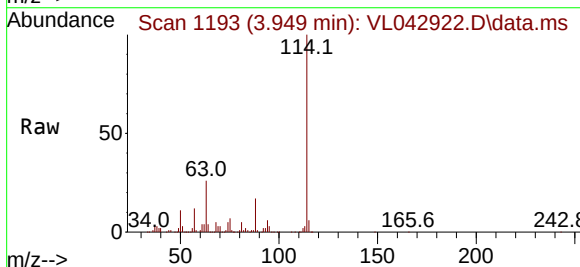
Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

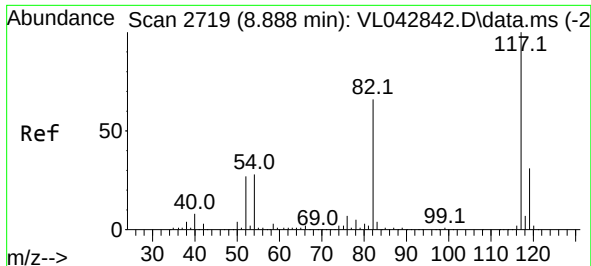
Tgt Ion: 49 Resp: 137030
Ion Ratio Lower Upper
49 100
128 41.9 23.7 71.1
130 55.2 30.6 91.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1193
Delta R.T. 0.006 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion:114 Resp: 339612
Ion Ratio Lower Upper
114 100
63 26.2 19.7 29.5
88 18.1 14.4 21.6

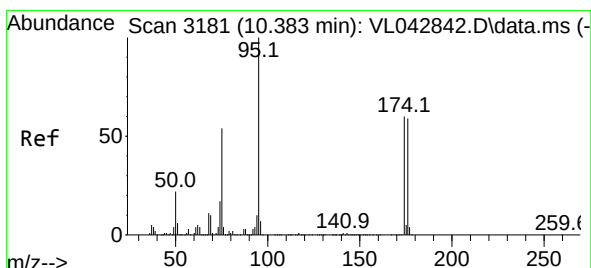
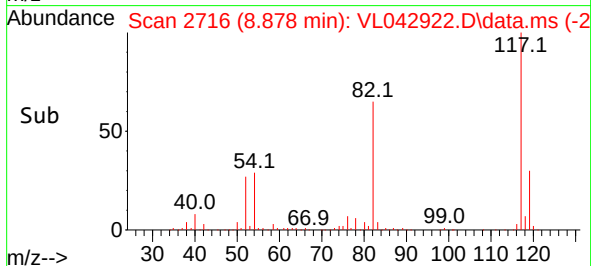
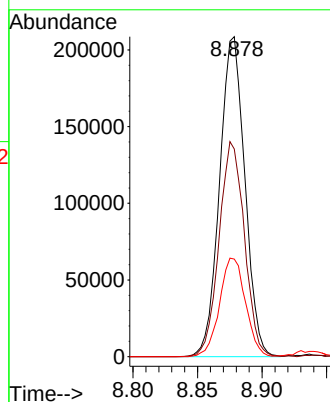
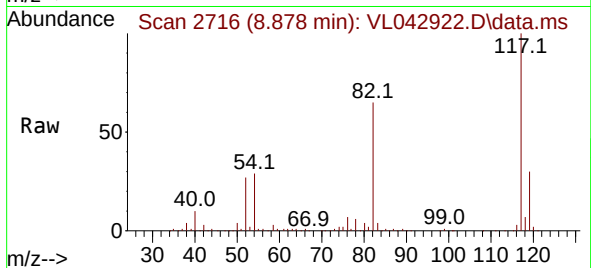




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

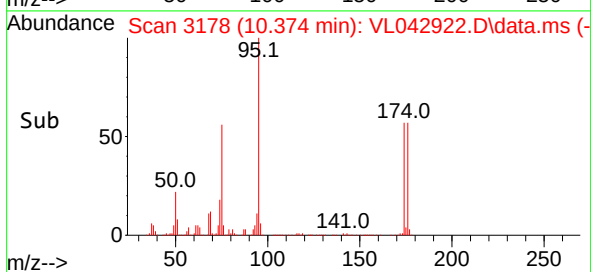
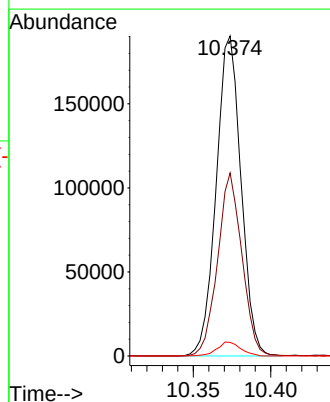
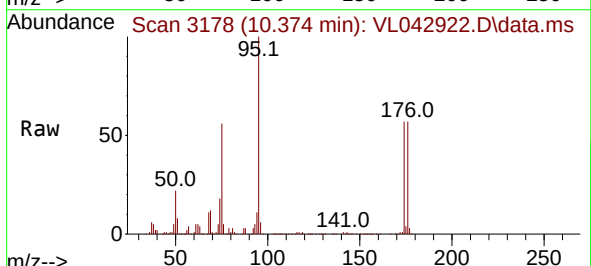
Instrument :
MSVOA_L
ClientSampleId :
VL0910ABL01

Tgt Ion:117 Resp: 283645
Ion Ratio Lower Upper
117 100
82 67.5 54.6 81.8
119 31.8 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.954 ppbv
RT: 10.374 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042922.D
Acq: 10 Sep 2025 10:21

Tgt Ion: 95 Resp: 211755
Ion Ratio Lower Upper
95 100
174 56.1 48.4 72.6
175 4.2 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	
Client Sample ID:	VL0908ABS01	SDG No.:	Q3052
Lab Sample ID:	VL0908ABS01	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
VL042902.D	1		09/08/25 13:35	VL090825

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.60	24.5		0.080	0.080	ug/m3
156-60-5	trans-1,2-Dichloroethene	10.0	39.6		0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	10.1	40.9		0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.80	38.9		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.40	51.3		0.11	0.16	ug/m3
107-06-2	1,2-Dichloroethane	12.7	51.4		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.4	55.9		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.60	65.1		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	140000		2.781			
540-36-3	1,4-Difluorobenzene	366000		3.946			
3114-55-4	Chlorobenzene-d5	306000		8.872			

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\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	139945	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.946	114	365857	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.872	117	306385	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 240840 10.481 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	220085	10.731	ppbv	99
3) Chlorodifluoromethane	1.470	51	263595	11.627	ppbv	98
4) Chloromethane	1.528	50	84783	10.244	ppbv	99
5) Vinyl Chloride	1.577	62	78545	9.636	ppbv	99
6) Bromomethane	1.664	94	31405	9.636	ppbv	96
7) Chloroethane	1.700	64	30810	9.679	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	175617	10.464	ppbv	96
9) Propene	1.476	41	56496m	5.770	ppbv	
10) Heptane	4.965	43	256593	9.785	ppbv	99
11) Trichlorofluoromethane	1.871	101	206104	10.185	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.133	101	164464	10.197	ppbv	96
13) Ethanol	1.716	45	7225	8.071	ppbv	92
14) Bromoethene	1.777	108	58442	10.009	ppbv	99
15) Acetone	1.829	43	156147	8.435	ppbv	99
16) 1,3-Butadiene	1.606	39	77632	9.250	ppbv	97
17) tert-Butyl alcohol	2.036	59	176056	8.020	ppbv	99
18) 1,1-Dichloroethene	2.026	96	68830	9.707	ppbv	97
19) Isopropyl Alcohol	1.881	45	97198	8.791	ppbv	93
20) Methylene Chloride	2.056	84	62334	8.038	ppbv	93
21) Allyl Chloride	2.091	41	125191	9.573	ppbv	94
22) trans-1,2-Dichloroethene	2.334	96	82077	10.005	ppbv	98
23) Vinyl Acetate	2.454	43	270676	10.634	ppbv #	99
24) 1,1-Dichloroethane	2.402	63	164910	10.066	ppbv	99
25) Ethyl Acetate	2.826	43	458640	10.237	ppbv	99
26) Hexane	2.816	57	207705	10.043	ppbv	95
27) Carbon Disulfide	2.143	76	206751	10.273	ppbv	98
28) Methyl tert-Butyl Ether	2.431	73	95768	9.082	ppbv	93
29) Chloroform	2.839	83	311859	10.562	ppbv	97
30) Cyclohexane	3.845	84	169353	9.340	ppbv	96
31) cis-1,2-Dichloroethene	2.713	61	202349	9.796	ppbv	97
32) 1,1,1-Trichloroethane	3.357	97	293618	9.409	ppbv	96
34) 2-Butanone	2.551	43	298071	12.066	ppbv	98
35) Carbon Tetrachloride	3.748	117	297085	11.779	ppbv	98
36) Benzene	3.645	78	407263	11.625	ppbv	99
37) 1,2-Dichloroethane	3.208	62	232809	12.720	ppbv	99
38) Trichloroethene	4.532	130	166529	10.408	ppbv	96
39) 1,2-Dichloropropane	4.302	63	153042	11.961	ppbv	96
40) 1,4-Dioxane	4.567	88	61682	10.138	ppbv #	88
41) Tetrahydrofuran	3.046	42	164268	11.927	ppbv	97
42) Bromodichloromethane	4.473	83	336858	12.351	ppbv	98
43) Methyl Methacrylate	4.862	69	158457	10.979	ppbv	98
44) 2,2,4-Trimethylpentane	4.625	57	701486	11.797	ppbv	98
45) t-1,3-Dichloropropene	6.399	75	169435	10.403	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090825\
 Data File : VL042902.D
 Acq On : 08 Sep 2025 13:35
 Operator : SY/MD
 Sample : VL0908ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0908ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.583	75	223871	11.031	ppbv	96
47) 1,1,2-Trichloroethane	6.564	97	156460	11.541	ppbv	95
48) Dibromochloromethane	7.373	129	256923	11.712	ppbv	99
49) Bromoform	9.474	173	203018	11.222	ppbv	99
50) 4-Methyl-2-Pentanone	5.732	43	390291	11.688	ppbv	97
51) 2-Hexanone	7.422	43	311589	11.858	ppbv #	95
52) Tetrachloroethene	8.212	164	122229	9.644	ppbv	93
53) Toluene	6.920	91	447844	10.752	ppbv	99
54) 1,2-Dibromoethane	7.639	107	223417	11.277	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.917	131	190922	12.050	ppbv	98
57) Chlorobenzene	8.911	112	345342	11.855	ppbv	99
58) Ethyl Benzene	9.344	91	618650	11.442	ppbv	99
59) m/p-Xylene	9.542	91	1015739m	23.968	ppbv	
60) o-Xylene	9.956	91	504922	11.844	ppbv	99
61) Styrene	9.862	104	212594	10.644	ppbv	100
62) Isopropylbenzene	10.532	105	717761	11.521	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	295111	12.588	ppbv	99
64) n-propylbenzene	10.982	120	186258	11.717	ppbv	94
65) tert-Butylbenzene	11.523	119	633844	11.541	ppbv	97
66) Benzyl Chloride	11.607	91	55458	7.954	ppbv	99
67) sec-Butylbenzene	11.759	105	904977	11.739	ppbv	99
69) p-Isopropyltoluene	11.918	119	743217	11.229	ppbv	98
70) n-Butylbenzene	12.274	91	793205	12.084	ppbv	97
71) 2-Chlorotoluene	10.892	91	551398	11.398	ppbv	97
72) 4-Ethyltoluene	11.118	105	613510	11.871	ppbv	99
73) 1,3,5-Trimethylbenzene	11.196	105	505222	11.496	ppbv	100
74) 1,2,4-Trimethylbenzene	11.529	105	562868	11.668	ppbv	99
75) 1,3-Dichlorobenzene	11.600	146	322979	11.778	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	320689	11.563	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	309433	11.524	ppbv	100
78) Hexachloro-1,3-Butadiene	13.876	225	187990	8.542	ppbv	97
79) Naphthalene	13.507	128	477313	10.914	ppbv	99
80) Naphthalene,2-methyl-	14.449	142	142381	8.713	ppbv	97
81) 1,2,4-Trichlorobenzene	13.432	180	228630	10.401	ppbv	99

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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	280 CONNECTICUT AVE NORWALK CT	Date Received:	
Client Sample ID:	VL0910ABS01	SDG No.:	Q3052
Lab Sample ID:	VL0910ABS01	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
VL042923.D	1		09/10/25 11:15	VL091025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.10	23.3		0.080	0.080	ug/m3
156-60-5	trans-1,2-Dichloroethene	9.60	38.1		0.48	1.98	ug/m3
75-34-3	1,1-Dichloroethane	9.60	38.9		0.53	2.02	ug/m3
156-59-2	cis-1,2-Dichloroethene	8.80	34.9		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	8.60	46.9		0.11	0.16	ug/m3
107-06-2	1,2-Dichloroethane	12.5	50.6		0.36	2.02	ug/m3
79-01-6	Trichloroethene	10.3	55.4		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.20	62.4		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135	107%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	144000		2.787			
540-36-3	1,4-Difluorobenzene	359000		3.955			
3114-55-4	Chlorobenzene-d5	297000		8.881			

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\VL091025\
 Data File : VL042923.D
 Acq On : 10 Sep 2025 11:15
 Operator : SY/MD
 Sample : VL0910ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:11:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	144213	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	359262	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.881	117	297345	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.377 95 239057 10.720 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 107.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	221043	10.458	ppbv	100
3) Chlorodifluoromethane	1.473	51	242940	10.399	ppbv	98
4) Chloromethane	1.531	50	83483	9.788	ppbv	99
5) Vinyl Chloride	1.580	62	76726	9.134	ppbv	94
6) Bromomethane	1.667	94	31758	9.456	ppbv	97
7) Chloroethane	1.703	64	31204	9.512	ppbv	90
8) Dichlorotetrafluoroethane	1.554	85	174948	10.115	ppbv	97
9) Propene	1.479	41	9933m	0.985	ppbv	
10) Heptane	4.975	43	257575	9.532	ppbv	98
11) Trichlorofluoromethane	1.877	101	205050	9.833	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	150856	9.077	ppbv	99
13) Ethanol	1.722	45	7091	7.687	ppbv	94
14) Bromoethene	1.780	108	56638	9.413	ppbv	97
15) Acetone	1.835	43	158979	8.334	ppbv	99
16) 1,3-Butadiene	1.609	39	75764	8.761	ppbv	98
17) tert-Butyl alcohol	2.039	59	169191	7.479	ppbv	98
18) 1,1-Dichloroethene	2.033	96	70847	9.696	ppbv	98
19) Isopropyl Alcohol	1.884	45	95301	8.364	ppbv #	38
20) Methylene Chloride	2.059	84	59956	7.503	ppbv	89
21) Allyl Chloride	2.094	41	120472	8.939	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	81412	9.630	ppbv	94
23) Vinyl Acetate	2.463	43	243847	9.296	ppbv #	98
24) 1,1-Dichloroethane	2.408	63	162104	9.602	ppbv	99
25) Ethyl Acetate	2.835	43	455568	9.867	ppbv	98
26) Hexane	2.822	57	202096	9.483	ppbv	93
27) Carbon Disulfide	2.149	76	198034	9.549	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	87510	8.053	ppbv	95
29) Chloroform	2.848	83	299968	9.859	ppbv	98
30) Cyclohexane	3.855	84	162101	8.676	ppbv	94
31) cis-1,2-Dichloroethene	2.719	61	186454	8.759	ppbv	93
32) 1,1,1-Trichloroethane	3.366	97	276772	8.607	ppbv	96
34) 2-Butanone	2.557	43	285943	11.787	ppbv	97
35) Carbon Tetrachloride	3.761	117	284318	11.479	ppbv	97
36) Benzene	3.654	78	391321	11.375	ppbv	97
37) 1,2-Dichloroethane	3.217	62	224329	12.481	ppbv	98
38) Trichloroethene	4.544	130	161710	10.292	ppbv	98
39) 1,2-Dichloropropane	4.311	63	148506	11.819	ppbv	93
40) 1,4-Dioxane	4.583	88	59487	9.957	ppbv #	89
41) Tetrahydrofuran	3.052	42	153801	11.372	ppbv	97
42) Bromodichloromethane	4.486	83	324553	12.118	ppbv	99
43) Methyl Methacrylate	4.878	69	148932	10.509	ppbv	98
44) 2,2,4-Trimethylpentane	4.638	57	694873	11.900	ppbv	98
45) t-1,3-Dichloropropene	6.415	75	150074	9.383	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL091025\
 Data File : VL042923.D
 Acq On : 10 Sep 2025 11:15
 Operator : SY/MD
 Sample : VL0910ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0910ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/11/2025
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 11 01:11:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.599	75	208230	10.449	ppbv	99
47) 1,1,2-Trichloroethane	6.580	97	155939	11.714	ppbv	98
48) Dibromochloromethane	7.386	129	245474	11.395	ppbv	99
49) Bromoform	9.483	173	197231	11.102	ppbv	100
50) 4-Methyl-2-Pentanone	5.748	43	382819	11.675	ppbv	97
51) 2-Hexanone	7.435	43	302643	11.729	ppbv #	94
52) Tetrachloroethene	8.221	164	115064	9.245	ppbv	94
53) Toluene	6.933	91	421930	10.316	ppbv	99
54) 1,2-Dibromoethane	7.652	107	217893	11.200	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.924	131	183667	11.945	ppbv	97
57) Chlorobenzene	8.920	112	341190	12.068	ppbv	98
58) Ethyl Benzene	9.354	91	596255	11.363	ppbv	98
59) m/p-Xylene	9.551	91	985225m	23.955	ppbv	
60) o-Xylene	9.962	91	495429	11.975	ppbv	99
61) Styrene	9.872	104	200674	10.352	ppbv	100
62) Isopropylbenzene	10.539	105	702444	11.618	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.962	83	299163	13.149	ppbv	100
64) n-propylbenzene	10.989	120	180169	11.679	ppbv	91
65) tert-Butylbenzene	11.529	119	608720	11.420	ppbv	97
66) Benzyl Chloride	11.616	91	56398	8.335	ppbv	99
67) sec-Butylbenzene	11.769	105	890610	11.904	ppbv	98
69) p-Isopropyltoluene	11.924	119	719966	11.209	ppbv	99
70) n-Butylbenzene	12.280	91	773841	12.147	ppbv	97
71) 2-Chlorotoluene	10.901	91	532195	11.336	ppbv	97
72) 4-Ethyltoluene	11.124	105	586546	11.695	ppbv	99
73) 1,3,5-Trimethylbenzene	11.202	105	490288	11.495	ppbv	100
74) 1,2,4-Trimethylbenzene	11.535	105	552511	11.802	ppbv	95
75) 1,3-Dichlorobenzene	11.607	146	315165	11.842	ppbv	99
76) 1,4-Dichlorobenzene	11.671	146	311459	11.572	ppbv	99
77) 1,2-Dichlorobenzene	11.947	146	311221	11.942	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	178304	8.348	ppbv	99
79) Naphthalene	13.513	128	453434	10.683	ppbv	98
80) Naphthalene,2-methyl-	14.458	142	121054	7.633	ppbv	98
81) 1,2,4-Trichlorobenzene	13.439	180	218326	10.235	ppbv	99

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

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	trans-1,2-Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	4-Methyl-2-Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDCCC010	VL042864.D	m/p-Xylene	SAM	8/14/2025 7:47:54 AM	MMDadoda	8/18/2025 8:43:18 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL081325

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	vl090825	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042900.D	m/p-Xylene	sam	9/9/2025 12:26:34 PM	MMDadoda	9/11/2025 5:28:20 PM	Peak Integrated by Software
VL0908ABS01	VL042902.D	m/p-Xylene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software
VL0908ABS01	VL042902.D	Propene	sam	9/9/2025 12:26:38 PM	MMDadoda	9/11/2025 5:24:29 PM	Peak Integrated by Software
Q3052-03	VL042908.D	2,2,4-Trimethylpentane	sam	9/9/2025 12:31:16 PM	MMDadoda	9/11/2025 5:25:37 PM	Peak Integrated by Software
Q3052-03	VL042908.D	m/p-Xylene	sam	9/9/2025 12:31:16 PM	MMDadoda	9/11/2025 5:25:37 PM	Peak Integrated by Software
Q3052-03	VL042908.D	Toluene	sam	9/9/2025 12:31:16 PM	MMDadoda	9/11/2025 5:25:37 PM	Peak Integrated by Software
Q3052-03	VL042908.D	Vinyl Acetate	sam	9/9/2025 12:31:16 PM	MMDadoda	9/11/2025 5:25:37 PM	Peak Integrated by Software
Q3052-04	VL042909.D	2,2,4-Trimethylpentane	sam	9/9/2025 12:31:56 PM	MMDadoda	9/11/2025 5:25:46 PM	Peak Integrated by Software
Q3052-04	VL042909.D	Carbon Tetrachloride	sam	9/9/2025 12:31:56 PM	MMDadoda	9/11/2025 5:25:46 PM	Peak Integrated by Software
Q3052-04	VL042909.D	m/p-Xylene	sam	9/9/2025 12:31:56 PM	MMDadoda	9/11/2025 5:25:46 PM	Peak Integrated by Software
Q3052-04	VL042909.D	Tetrachloroethene	sam	9/9/2025 12:31:56 PM	MMDadoda	9/11/2025 5:25:46 PM	Peak Integrated by Software
Q3052-01	VL042910.D	Ethanol	sam	9/9/2025 12:32:01 PM	MMDadoda	9/11/2025 5:26:22 PM	Peak Integrated by Software
Q3052-01	VL042910.D	m/p-Xylene	sam	9/9/2025 12:32:01 PM	MMDadoda	9/11/2025 5:26:22 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VI090825

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3052-01	VL042910.D	Toluene	sam	9/9/2025 12:32:01 PM	MMDadoda	9/11/2025 5:26:22 PM	Peak Integrated by Software
Q3052-01	VL042910.D	Trichloroethene	sam	9/9/2025 12:32:01 PM	MMDadoda	9/11/2025 5:26:22 PM	Peak Integrated by Software
Q3052-03DL	VL042913.D	Chlorodifluoromethane	sam	9/9/2025 12:32:07 PM	MMDadoda	9/11/2025 5:27:03 PM	Peak Integrated by Software
Q3052-03DL	VL042913.D	Propene	sam	9/9/2025 12:32:07 PM	MMDadoda	9/11/2025 5:27:03 PM	Peak Integrated by Software
Q3052-04DUP	VL042914.D	2,2,4-Trimethylpentane	sam	9/9/2025 12:31:26 PM	MMDadoda	9/11/2025 5:27:18 PM	Peak Integrated by Software
Q3052-04DUP	VL042914.D	Carbon Tetrachloride	sam	9/9/2025 12:31:26 PM	MMDadoda	9/11/2025 5:27:18 PM	Peak Integrated by Software
Q3052-04DUP	VL042914.D	m/p-Xylene	sam	9/9/2025 12:31:26 PM	MMDadoda	9/11/2025 5:27:18 PM	Peak Integrated by Software
Q3052-04DUP	VL042914.D	Toluene	sam	9/9/2025 12:31:26 PM	MMDadoda	9/11/2025 5:27:18 PM	Peak Integrated by Software
Q3052-01DL	VL042918.D	Ethanol	sam	9/10/2025 3:05:08 PM	MMDadoda	9/11/2025 5:27:54 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL091025	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042921.D	m/p-Xylene	sam	9/11/2025 9:02:57 AM	MMDadoda	9/11/2025 5:33:09 PM	Peak Integrated by Software
VSTDCCC010	VL042921.D	t-1,3-Dichloropropene	sam	9/11/2025 9:02:57 AM	MMDadoda	9/11/2025 5:33:09 PM	Peak Integrated by Software
VL0910ABS01	VL042923.D	m/p-Xylene	sam	9/11/2025 9:03:04 AM	MMDadoda	9/11/2025 5:33:11 PM	Peak Integrated by Software
VL0910ABS01	VL042923.D	Propene	sam	9/11/2025 9:03:04 AM	MMDadoda	9/11/2025 5:33:11 PM	Peak Integrated by Software
Q3052-02	VL042924.D	1,4-Dioxane	sam	9/11/2025 9:03:08 AM	MMDadoda	9/11/2025 5:33:13 PM	Peak Integrated by Software
Q3052-02	VL042924.D	2-Hexanone	sam	9/11/2025 9:03:08 AM	MMDadoda	9/11/2025 5:33:13 PM	Peak Integrated by Software
Q3052-02	VL042924.D	4-Methyl-2-Pentanone	sam	9/11/2025 9:03:08 AM	MMDadoda	9/11/2025 5:33:13 PM	Peak Integrated by Software
Q3052-02	VL042924.D	Trichloroethene	sam	9/11/2025 9:03:08 AM	MMDadoda	9/11/2025 5:33:13 PM	Peak Integrated by Software
Q3052-02DL	VL042925.D	2-Hexanone	sam	9/11/2025 9:03:13 AM	MMDadoda	9/11/2025 5:33:15 PM	Peak Integrated by Software
Q3052-02DL	VL042925.D	Heptane	sam	9/11/2025 9:03:13 AM	MMDadoda	9/11/2025 5:33:15 PM	Peak Integrated by Software
Q3052-02DL	VL042925.D	m/p-Xylene	sam	9/11/2025 9:03:13 AM	MMDadoda	9/11/2025 5:33:15 PM	Peak Integrated by Software
Q3052-02DL	VL042925.D	Toluene	sam	9/11/2025 9:03:13 AM	MMDadoda	9/11/2025 5:33:15 PM	Peak Integrated by Software
Q3052-02DLDU P	VL042926.D	2-Hexanone	sam	9/11/2025 9:03:18 AM	MMDadoda	9/11/2025 5:35:37 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL091025

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q3052-02DLDU P	VL042926.D	Bromodichloromethane	sam	9/11/2025 9:03:18 AM	MMDadoda	9/11/2025 5:35:37 PM	Peak Integrated by Software
Q3052-02DLDU P	VL042926.D	Heptane	sam	9/11/2025 9:03:18 AM	MMDadoda	9/11/2025 5:35:37 PM	Peak Integrated by Software
Q3052-02DLDU P	VL042926.D	m/p-Xylene	sam	9/11/2025 9:03:18 AM	MMDadoda	9/11/2025 5:35:37 PM	Peak Integrated by Software
Q3052-02DLDU P	VL042926.D	Toluene	sam	9/11/2025 9:03:18 AM	MMDadoda	9/11/2025 5:35:37 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	Sampleld	Data File Name	Date-Time	Operator	Status
1	BFB	VL042841.D	13 Aug 2025 07:45	SY/MD	Ok
2	VSTDICCC010	VL042842.D	13 Aug 2025 08:30	SY/MD	Ok,M
3	VSTDICCC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICCC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICCC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICCC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICCC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICCC015	VL042848.D	13 Aug 2025 12:06	SY/MD	Ok,M
9	VSTDICV010	VL042849.D	13 Aug 2025 12:56	SY/MD	Ok,M
10	VL0813ABL01	VL042850.D	13 Aug 2025 13:46	SY/MD	Ok
11	VL0813ABS01	VL042851.D	13 Aug 2025 14:32	SY/MD	Ok,M
12	Q2727-01DL2	VL042852.D	13 Aug 2025 15:10	SY/MD	Ok
13	Q2126-14 0.1 PPB LOQ	VL042853.D	13 Aug 2025 15:49	SY/MD	Ok,M
14	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27	SY/MD	Ok
15	Q2794-01	VL042855.D	13 Aug 2025 17:05	SY/MD	Dilution
16	Q2794-01DUP	VL042856.D	13 Aug 2025 17:43	SY/MD	Ok,M
17	Q2794-01DL	VL042857.D	13 Aug 2025 18:21	SY/MD	Ok,M
18	Q2794-02	VL042858.D	13 Aug 2025 18:58	SY/MD	Ok,M
19	Q2794-02DL	VL042859.D	13 Aug 2025 19:35	SY/MD	Not Ok
20	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12	SY/MD	Ok
21	Q2834-01	VL042861.D	13 Aug 2025 20:49	SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2834-02	VL042862.D	13 Aug 2025 21:26	SY/MD	Ok,M
23	Q2834-02DL	VL042863.D	13 Aug 2025 22:02	SY/MD	Not Ok
24	VSTDCCC010	VL042864.D	13 Aug 2025 22:39	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Maresh Dadoda	Review On	9/11/2025 5:29:46 PM
Supervise By		Supervise On	
SubDirectory	VL090825	HP Acquire Method	TO15AIR
		HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2655		
Initial Calibration Stds	AP2650,AP2652,AP2653		
CCC	AP2650		
Internal Standard/PEM	AP2655		
ICV/I.BLK	AP2654		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042899.D	08 Sep 2025 08:41	SY/MD	Ok
2	VSTDCCC010	VL042900.D	08 Sep 2025 11:05	SY/MD	Ok,M
3	VL0908ABL01	VL042901.D	08 Sep 2025 11:55	SY/MD	Ok
4	VL0908ABS01	VL042902.D	08 Sep 2025 13:35	SY/MD	Ok,M
5	Q3038-01	VL042903.D	08 Sep 2025 14:19	SY/MD	Not Ok
6	Q3037-01	VL042904.D	08 Sep 2025 15:15	SY/MD	Ok,M
7	Q3037-01DUP	VL042905.D	08 Sep 2025 15:59	SY/MD	Ok,M
8	Q3038-01	VL042906.D	08 Sep 2025 16:33	SY/MD	Ok,M
9	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09	SY/MD	Ok
10	Q3052-03	VL042908.D	08 Sep 2025 17:45	SY/MD	Dilution
11	Q3052-04	VL042909.D	08 Sep 2025 18:21	SY/MD	Ok,M
12	Q3052-01	VL042910.D	08 Sep 2025 18:56	SY/MD	Dilution
13	Q3052-02	VL042911.D	08 Sep 2025 19:31	SY/MD	Not Ok
14	VIBLK	VL042912.D	08 Sep 2025 20:33	SY/MD	Ok
15	Q3052-03DL	VL042913.D	08 Sep 2025 21:08	SY/MD	Ok,M
16	Q3052-04DUP	VL042914.D	08 Sep 2025 21:45	SY/MD	Ok,M
17	Q3052-02DL	VL042915.D	08 Sep 2025 22:20	SY/MD	Not Ok
18	Q3052-02	VL042916.D	08 Sep 2025 22:55	SY/MD	Not Ok
19	Q3052-02	VL042917.D	09 Sep 2025 07:48	SY/MD	Not Ok
20	Q3052-01DL	VL042918.D	09 Sep 2025 08:22	SY/MD	Ok,M
21	Q3052-02	VL042919.D	09 Sep 2025 08:57	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL091025

Review By	Semsettin Yesilyurt	Review On	9/11/2025 9:03:49 AM		
Supervise By	Maresh Dadoda	Supervise On	9/11/2025 5:35:46 PM		
SubDirectory	VL091025	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042920.D	10 Sep 2025 08:00	SY/MD	Ok
2	VSTDCCC010	VL042921.D	10 Sep 2025 09:36	SY/MD	Ok,M
3	VL0910ABL01	VL042922.D	10 Sep 2025 10:21	SY/MD	Ok
4	VL0910ABS01	VL042923.D	10 Sep 2025 11:15	SY/MD	Ok,M
5	Q3052-02	VL042924.D	10 Sep 2025 12:05	SY/MD	Dilution
6	Q3052-02DL	VL042925.D	10 Sep 2025 12:41	SY/MD	Ok,M
7	Q3052-02DL DUP	VL042926.D	10 Sep 2025 13:33	SY/MD	Ok,M
8	VIBLK	VL042927.D	10 Sep 2025 14:10	SY/MD	Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL081325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2655
Initial Calibration Stds	AP2650,AP2652,AP2653
CCC	AP2650
Internal Standard/PEM	AP2655
ICV/I.BLK	AP2654
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042841.D	13 Aug 2025 07:45		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042842.D	13 Aug 2025 08:30		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042843.D	13 Aug 2025 09:06		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042844.D	13 Aug 2025 09:41		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042845.D	13 Aug 2025 10:17		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042846.D	13 Aug 2025 10:53		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042847.D	13 Aug 2025 11:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042848.D	13 Aug 2025 12:06		SY/MD	Ok,M
9	VSTDICV010	ICVVL081325	VL042849.D	13 Aug 2025 12:56		SY/MD	Ok,M
10	VL0813ABL01	VL0813ABL01	VL042850.D	13 Aug 2025 13:46		SY/MD	Ok
11	VL0813ABS01	VL0813ABS01	VL042851.D	13 Aug 2025 14:32		SY/MD	Ok,M
12	Q2727-01DL2	AE073-1100DL2	VL042852.D	13 Aug 2025 15:10		SY/MD	Ok
13	Q2126-14 0.1 PPB LOC	LOQ-AIR-02-QT2-2025	VL042853.D	13 Aug 2025 15:49		SY/MD	Ok,M
14	QC080725 CAN10282	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27		SY/MD	Ok
15	Q2794-01	IA1	VL042855.D	13 Aug 2025 17:05	Need 10X	SY/MD	Dilution
16	Q2794-01DUP	IA1DUP	VL042856.D	13 Aug 2025 17:43		SY/MD	Ok,M
17	Q2794-01DL	IA1DL	VL042857.D	13 Aug 2025 18:21		SY/MD	Ok,M
18	Q2794-02	OA1	VL042858.D	13 Aug 2025 18:58		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2794-02DL	OA1DL	VL042859.D	13 Aug 2025 19:35	Not Required	SY/MD	Not Ok
20	QC081125 CAN 10280	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12		SY/MD	Ok
21	Q2834-01	IA1	VL042861.D	13 Aug 2025 20:49		SY/MD	Ok,M
22	Q2834-02	SV1	VL042862.D	13 Aug 2025 21:26		SY/MD	Ok,M
23	Q2834-02DL	SV1DL	VL042863.D	13 Aug 2025 22:02	Not Required	SY/MD	Not Ok
24	VSTDCCC010	VSTDCCC010EC	VL042864.D	13 Aug 2025 22:39		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Maresh Dadoda	Review On	9/11/2025 5:29:46 PM
Supervise By		Supervise On	
SubDirectory	VL090825	HP Acquire Method	TO15AIR
		HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2655		
Initial Calibration Stds	AP2650,AP2652,AP2653		
CCC	AP2650		
Internal Standard/PEM	AP2655		
ICV/I.BLK	AP2654		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042899.D	08 Sep 2025 08:41		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042900.D	08 Sep 2025 11:05		SY/MD	Ok,M
3	VL0908ABL01	VL0908ABL01	VL042901.D	08 Sep 2025 11:55		SY/MD	Ok
4	VL0908ABS01	VL0908ABS01	VL042902.D	08 Sep 2025 13:35		SY/MD	Ok,M
5	Q3038-01	SV-1	VL042903.D	08 Sep 2025 14:19	Not required	SY/MD	Not Ok
6	Q3037-01	IA-2	VL042904.D	08 Sep 2025 15:15		SY/MD	Ok,M
7	Q3037-01DUP	IA-2	VL042905.D	08 Sep 2025 15:59		SY/MD	Ok,M
8	Q3038-01	SV-1	VL042906.D	08 Sep 2025 16:33		SY/MD	Ok,M
9	QC090425 CAN 10158	QC090425 CAN 10158	VL042907.D	08 Sep 2025 17:09		SY/MD	Ok
10	Q3052-03	IA1	VL042908.D	08 Sep 2025 17:45	Need 20X	SY/MD	Dilution
11	Q3052-04	OA1	VL042909.D	08 Sep 2025 18:21		SY/MD	Ok,M
12	Q3052-01	SV1	VL042910.D	08 Sep 2025 18:56	Need 200X	SY/MD	Dilution
13	Q3052-02	SV2	VL042911.D	08 Sep 2025 19:31	Not required	SY/MD	Not Ok
14	VIBLK	VIBLK	VL042912.D	08 Sep 2025 20:33		SY/MD	Ok
15	Q3052-03DL	IA1DL	VL042913.D	08 Sep 2025 21:08		SY/MD	Ok,M
16	Q3052-04DUP	OA1	VL042914.D	08 Sep 2025 21:45		SY/MD	Ok,M
17	Q3052-02DL	SV2DL	VL042915.D	08 Sep 2025 22:20	Not match	SY/MD	Not Ok
18	Q3052-02	SV2	VL042916.D	08 Sep 2025 22:55	Not required	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL090825

Review By	Mahesh Dadoda	Review On	9/11/2025 5:29:46 PM		
Supervise By		Supervise On			
SubDirectory	VL090825	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q3052-02	SV2	VL042917.D	09 Sep 2025 07:48	Not required	SY/MD	Not Ok
20	Q3052-01DL	SV1DL	VL042918.D	09 Sep 2025 08:22		SY/MD	Ok,M
21	Q3052-02	SV2	VL042919.D	09 Sep 2025 08:57	Need 60X,out of tune time	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL091025

Review By	Semsettin Yesilyurt	Review On	9/11/2025 9:03:49 AM		
Supervise By	Mahesh Dadoda	Supervise On	9/11/2025 5:35:46 PM		
SubDirectory	VL091025	HP Acquire Method	TO15AIR	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042920.D	10 Sep 2025 08:00		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042921.D	10 Sep 2025 09:36		SY/MD	Ok,M
3	VL0910ABL01	VL0910ABL01	VL042922.D	10 Sep 2025 10:21		SY/MD	Ok
4	VL0910ABS01	VL0910ABS01	VL042923.D	10 Sep 2025 11:15		SY/MD	Ok,M
5	Q3052-02	SV2	VL042924.D	10 Sep 2025 12:05	Need 40X	SY/MD	Dilution
6	Q3052-02DL	SV2DL	VL042925.D	10 Sep 2025 12:41		SY/MD	Ok,M
7	Q3052-02DL DUP	SV2DL DUP	VL042926.D	10 Sep 2025 13:33		SY/MD	Ok,M
8	VIBLK	VIBLK	VL042927.D	10 Sep 2025 14:10		SY/MD	Ok

M : Manual Integration

Client Contact Information		Bottle Order ID : B2508043	Courier : F Galdun	COCs #2 of 4	
Client ID : GFEL01	Project ID : 200-ESBIDA-ST-BURGESS-HS-NJ	Sampler Name(s) : Frank Galdun		Analysis Matrix	
Customer Name : GFE LLC	Project Manager : Frank galdun				
Address : 58 Nokomis Ave	Phone Number : 646-542-3465				
	Fax Number : 973-334-1692				
	Site Details: 280 Connecticut Ave Norwalk CT				
City : Lake Hiawatha	Analysis Turnaround Time 5 DAY				
State : NJ	Standard : ASTM D1555 OR				
Zip Code : 07034	Rush (Specify): 5 Days				
Country :					

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg") (Start)	Can Vacuum in Field ("Hg") (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IAI	9/12/25	11:08	1:08	OKL 30	4.5	75	78	-30	-5.1	10707	10280	6 L	50	VLO42860.D	/	

Data Package Type : RESULTS ONLY

EDD Type : PDF

GC/MS Analyst Signature (TO-15)

[Signature]

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

REPORT ONLY: TCE, TCe, cis-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCA, 1,1-DCA, 1,2-DCA, VINYLCHLORIDE

Please follow the instructions on the back of this COC.

PID Readings:		O.O
High	Medium	Low

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High

Sampling site (State):

Quick Connector required : NA	Date/Time: 8/27/25	Canisters Received by: AB	Date/Time: 9/18/25	1320
Canisters Shipped by: [Signature]	Date/Time: 9/18/25	Received by:	Date/Time:	
Samples Relinquished by: ELS PL	Date/Time:	Relinquished by:	Date/Time:	

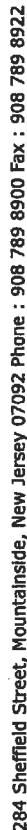
B2508043 - 4



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

Alliance Project No. :

Client Contact Information				Bottle Order ID : B2508043				Courier : F Galdun				K44 of 4 COCs			
Client ID : GFEL01				Project ID : 202508043-CT-888888888888				Sampler Name(s) : FRANK Galdun				Analysis			
Customer Name : GFE LLC				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				Matrix			
Address : 58 Nokomis Ave				Phone Number : 646-542-3465											
City : Lake Hiawatha				Fax Number : 973-334-1692											
State : NJ				Analysis Turnaround Time : 5 DAY				Data Package Type : RESULTS ONLY							
Zip Code : 07034				Standard : 18 business days OR				EDD Type : RDI							
Country :				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	Soil Gas
OA1		9/16/25	10:18	12:28	10.18	10.30	1	1	-30	-5.1	10528	10315	6 L	50	VL042860.D
Temperature (Fahrenheit)															
Ambient		Maximum		Minimum											
Start		80													
Stop		64													
GC/MS Analyst Signature (TO-15)															
GC/MS Analyst Signature (TO-15)															
** Submittal of this COC indicates approval of the analysis based on existing conditions.															
REPORT ONLY: PCE, TCE, cis-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCA, 1,1-DCA, 1,2-DCA, VINYLCHLORIDE															
Please follow the instructions on the back of this COC.															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium Low															
Sampling site (State):															
Quick Connector required : NR															
Canisters Shipped by: JH															
Samples Relinquished by: JH															
Relinquished by: JH															
Canisters Received by: JH															
Received by: JH															
Date/Time: 9/18/25 1320															
Date/Time: B2508043 - 5															

Date/Time:



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

Alliance Project No. :

Client Contact Information				Bottle Order ID : B2508043				Courier : T Galdun				2 of 4 COCs															
Client ID : GFEL01				Project ID :				Sampler Name(s) : Frank Galdun				Analysis															
Customer Name : GFE LLC				Project Manager : Frank Galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified				Matrix															
Address : 58 Nokomis Ave				Phone Number : 646-542-3465																							
City : Lake Hiawatha				Fax Number : 973-334-1692																							
State : NJ				Analysis Turnaround Time : 5 DAY				Data Package Type : RESULTS ONLY																			
Zip Code : 07034				Standard : 30 Business Days OR				EDD Type : RDE																			
Country :				Rush (Specify):																							
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		Flow Controller Readout (ml/min)		Can Cert ID			
SVZ		9/25/15		1:15		1:30		0.55		5.5		75		78		-30		-7.5		10525		6 L		50		VL042860.D	
Temperature (Fahrenheit)																											
Start		Ambient		Maximum		Minimum																					
Stop																											
Pressure (Inches of Hg)																											
Start		Ambient		Maximum		Minimum																					
Stop																											
GC/MS Analyst Signature (TO-15)																											
GC/MS Analyst Signature (TO-15)																											
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: POETCE, cis-1,2-DCE, TRANS-1,2-DCE, 1,1,1-TCA, 1,1-DCA, 1,2-DCA, VINYLCHLORIDE																											
Please follow the instructions on the back of this COC.																											
Special Instructions/QC Requirements & Comments :																											
Suspected Contamination: High Medium Low																											
Sampling site (State):																											
Quick Connector required : NO																											
Canisters Shipped by: [Signature]																											
Date/Time: 9/27/15																											
Canisters Received by: [Signature]																											
Date/Time: 9/27/15																											
Samples Relinquished by: [Signature]																											
Date/Time: 9/27/15																											
Relinquished by: [Signature]																											
Date/Time: 9/27/15																											
B2508043 - 7																											

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

~~NORSE~~

Title: Sample Custodian

Field Sample Seal No.: Q3052

Date Broken 9/9/2025

Military Time Seal Broken: 13:20:00

Case No.: 280 CONNECTICUT AVE NC

Analytical Parameter/Fraction: OCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q3052-01	SV1		
Q3052-02	SV2		
Q3052-03	IA1		
Q3052-04	OAI		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
9/8/25	15:15	Signature 	Signature  15:15	
		Printed Name <u>Cassanova Perez</u>	Printed Name <u>Amy Roder</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

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 : Q3052

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
09/09/2025	B2508043	Q3052-02	-7.5	10590	6 L	10525		C2508003	VL042860.D Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D
09/09/2025	B2508043	Q3052-01	-5.5	10321	6 L	10767		C2508003	VL042860.D Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D
09/09/2025	B2508043	Q3052-04	-5.1	10315	6 L	10528		C2508003	VL042860.D Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D
09/09/2025	B2508043	Q3052-03	-5.1	10280	6 L	10707		C2508003	VL042860.D Seq :VL081325 TUNE : VL042841.D ICAL : VL042847.D CCAL : VL042842.D MB : VL042850.D

10321

155

CHEMTECH'S SAMPLE
Date Received: _____

Storage Location: VOA Lab
Sample: Q3052-01
Cust #: SV1

Client Sample ID #: SV1
Client Name: GFE
Project Name: CONNECTICUT AVE
Date: 9/6 Time: 10:15
Analysis: TO-15
Comments: _____

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

CHEMTECH

1-800-441-1000

B2508043

10590

155

CHEMTECH'S SAM
Date Received: _____

Storage Location: VOA Lab
Sample: Q3052-02
Cust #: SV2

Client Sample ID #: SV2
Client Name: GFE
Project Name: CONNECTICUT AVE
Date: 9/6 Time: 10:16
Analysis: TO-15
Comments: _____

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

CHEMTECH

50

1000

B2508043

CHEMTECH

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

Client Sample ID #: IA1Client Name: GFEProject Name: CONNECTICUT AVEDate: 9/6

Time: _____

Analysis: TO-15

Comments: _____

CHEMTECH'S SAM

Date Received: _____

Storage Location: VOA Lab
Sample: Q3052-03
Cust #: IA1

155

Q3052-01

Q3052-03

CHEMTECH

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

Client Sample ID #:

OAI

Client Name:

GFE

Project Name:

CONNECTICUT AVE

Date:

9/6

Time:

Analysis:

TO-15

Comments:

CHEMTECH'S S

Date Received:

Storage Location: VOA Lab

Sample: Q3052-04

Cust #: OAI

psal:

10315

B22508043