



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2507029				Courier : F. Galdun				1 of 7 COCs																												
Client ID : GFEL01 Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																												
Customer : GFE LLC Name : 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: 739 NOSTRAND AVE BROOKLYN, NY																																				
Analysis Turnaround Time 7 DAY				Standard : 10 Business days OR				Data Package Type : RESULTS ONLY																																
Rush (Specify): 7 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																								
SU1	7/28/25	7:26g	7:40g	OVER 30	5	70	70	-30	-42	10226	10607	6 L	50	VL042562.D	1	1																								
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop					Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15)						
	Ambient	Maximum	Minimum																																					
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Special Instructions/QC Requirements & Comments :																																								
Suspected Contamination: High Medium Low PID Readings: 0,1																																								
Sampling site (State):																																								
Quick Connector required : NO																																								
Canisters Shipped by: Sam				Date/Time: 7/24/25				Canisters Received by: CP				Date/Time: 7/28/25 13:00																												
Samples Relinquished by: FRAN				Date/Time: 7/28/25				Received by:				Date/Time:																												
Relinquished by:				Date/Time:				Received by:				Date/Time:																												
																B2507029 - 9																								

Client Contact Information				Bottle Order ID : B2507029				Courier : F. Galdun				<u>2</u> of <u>7</u> COCs			
Client ID : GFEL01				Project ID : 10 Exchange St.				Sampler Name(s) : FRANK GALDUN				Analysis			
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				Indoor/Ambient Air Soil Gas			
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 739 Nostrand Ave Brooklyn, NY											
Analysis Turnaround Time 1 DAY				Standard : 5 business days OR				Data Package Type : RESULTS ONLY							
Rush (Specify): #7 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					
SV2	1/28/25	7:36	9:36	0.52	5.5	70	70	-30	-4.7	10649	10282	6 L	50	VL042562.D	1					

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.1

Sampling site (State):

Quick Connector required : No

Canisters Shipped by: <u>Sam</u>	Date/Time: <u>07/24/25</u>	Canisters Received by:	Date/Time: <u>7/28/25</u> <u>BAO</u>
Samples Relinquished by:	Date/Time:	Received by: <u>CR</u>	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2507029				Courier : FGaldun				3 of 7 COCs			
Client ID : GFEL01 Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK Galdun				Analysis				Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 739 NOSTRAND AVE BROOKLYN, NY											
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY							
				Standard : 16 business days OR				EDD Type : PDF							
Rush (Specify): 7 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
SV3	7/28/25	7:41	9:41	30	4	70	70	-30	-5.1	10503	10320	6 L	50	VL042562.D	1		1

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: Sam	Date/Time: 7/24/25	Canisters Received by: CP	Date/Time: 7/28/25 1300
Samples Relinquished by: FG	Date/Time: 7/28/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2507029 - 6

Client Contact Information				Bottle Order ID : B2507029				Courier : FGALDUN				5 of 7 COCs					
Client ID : GFEL01 Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 739 Nostrand Ave Brooklyn NY													
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY									
				Standard : 10 business days OR				EDD Type : PDF									
Rush (Specify): 7 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
IAZ	7/28/15	7:46	9:46	OVER 30	5	70	70	-30	-5.1	10511	10275	6 L	50	VL042600.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sut							
	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-DCP, 1,1-DCP, 1,1,1-TCA, 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: OP																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sams				Date/Time: 7/24/15				Canisters Received by: OP				Date/Time: 7/28/15 1300					
Samples Relinquished by: FRANK				Date/Time: 7/28/15				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2507029				Courier : F GALDUN				6 of 7 COCs			
Client ID : GFEL01				Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 139 Nostrand Ave BROOKLYN, NY											
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY							
				Standard : 10 business days OR				EDD Type : PDF							
Rush (Specify): 7 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																								
IAB3	7/28/25	9:48	10:48	3.5	10	70	70	-30	-4.7	10525	10445	6 L	50	VL042562.D	1	1																									
Temperature (Fahrenheit) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>																			Ambient	Maximum	Minimum	Start				Stop					Ambient	Maximum	Minimum	Start				Stop			
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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, 1,1-DCE, 1,1,1-TEA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																																									

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: **00**

Sampling site (State):

Quick Connector required : **No**

Canisters Shipped by: SEAN	Date/Time: 07/24/25	Canisters Received by: CF	Date/Time: 7/28/25 1300
Samples Relinquished by: FRANK	Date/Time: 7/28/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2507029				Courier : FGALDUN				<u>7</u> of <u>7</u> COCs																	
Client ID : GFEL01 Project ID : 10 Eldridge St.				Sampler Name(s) FRANK GALDUN				Analysis				Matrix																	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Individual Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 739 NOSTRAND AVE BROOKLYN, NY																									
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY																					
				Standard : 10 business days OR				EDD Type : PDF																					
				Rush (Specify): 7 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	7/24/25	5:52	9:52	over 30	Z	---	---	-30	-4.3	10579	10158	6 L	50	VL042562.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td>80</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td>83</td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start	80			Stop	83			GC/MS Analyst Signature (TO-15)							
	Ambient	Maximum	Minimum																										
Start	80																												
Stop	83																												
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DEE, 1,1-DEE, 1,1,1-TCA, 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 <u>Low</u> PID Readings: 0.0																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sam				Date/Time: 7/24/25				Canisters Received by: OP				Date/Time: 7/28/25 1300				B2507029 - 1													
Samples Relinquished by: FRANK				Date/Time: 7/28/25				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2507029				Courier : FGALDUN				4 of 7 COCs																	
Client ID : GFEL01 Project ID : 10 Bridge St.				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 739 Nostrand Ave Brooklyn NY																									
Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY																									
Standard : to business days OR				Rush (Specify): 7 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												
IA1	7/28/15	7:45	7:45	30	4.5	70	70	-30	-3.5	10613	10300	6 L	50	VL042562.D	1	1													
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
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	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings:																													
Sampling site (State):																													
Quick Connector required : No																													
Canisters Shipped by: SA				Date/Time: 7/24/15				Canisters Received by: OR				Date/Time: 7/28/15 1300																	
Samples Relinquished by: FOR				Date/Time: 7/28/15				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Laboratory Certification

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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>		
QA/QC :	Title: <u>Sample Custodian</u>		
Field Sample Seal No. <u>Q2712</u>	Date Broken <u>7/28/2025</u>		Military Time Seal Broken: <u>13:00:00</u>
Case No.: <u>50 Jefferson Blvd, Staten I</u>	Analytical Parameter/Fraction/QCMS Group2		

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2712-01	SV1		
Q2712-02	SV2		
Q2712-03	SV3		
Q2712-04	IA2		
Q2712-05	IA3		
Q2712-06	OA1		
Q2712-07	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
<u>7/28/25</u> <u>1415</u>		Signature <u>[Signature]</u> Printed Name <u>Cassanova, Dan</u>	Signature <u>[Signature]</u> Printed Name <u>San Sebastian, Yael</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

Distribution: White - Original (Sent With Report) Yellow - Contractor Archive Pink - Sample Custodian - Interim Copy

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following "Results Qualifiers" are used:

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

LAB CHRONICLE

OrderID:	Q2712	OrderDate:	7/28/2025 1:51:00 PM
Client:	GFE LLC	Project:	739 Nostrand Ave, Brooklyn, NY
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2712-01	SV1	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-01DL	SV1DL	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-02	SV2	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-03	SV3	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-04	IA2	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-05	IA3	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-06	OA1	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25
Q2712-07	IA1	Air	VOCMS Group2	TO-15	07/28/25		07/29/25	07/28/25

Hit Summary Sheet
SW-846

SDG No.: Q2712

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q2712-01	SV1	Air	cis-1,2-Dichloroethene	4.36	J	3.93	19.8	ug/m3
Q2712-01	SV1	Air	Trichloroethene	45.7		1.29	1.61	ug/m3
Q2712-01	SV1	Air	Tetrachloroethene	1420	E	1.02	2.03	ug/m3
			Total Voc :	1470				
			Total Concentration:	1470				
Client ID:	SV1DL							
Q2712-01DL	SV1DL	Air	Trichloroethene	50.0	D	5.16	6.45	ug/m3
Q2712-01DL	SV1DL	Air	Tetrachloroethene	1490	D	4.07	8.14	ug/m3
			Total Voc :	1540				
			Total Concentration:	1540				
Client ID:	SV2							
Q2712-02	SV2	Air	Tetrachloroethene	284		1.02	2.03	ug/m3
			Total Voc :	284				
			Total Concentration:	284				
Client ID:	SV3							
Q2712-03	SV3	Air	Trichloroethene	2.36		1.29	1.61	ug/m3
Q2712-03	SV3	Air	Tetrachloroethene	426		1.02	2.03	ug/m3
			Total Voc :	428				
			Total Concentration:	428				
Client ID:	IA2							
Q2712-04	IA2	Air	Tetrachloroethene	0.81		0.14	0.20	ug/m3
			Total Voc :	0.81				
			Total Concentration:	0.81				
Client ID:	IA3							
Q2712-05	IA3	Air	Vinyl Chloride	0.10		0.080	0.080	ug/m3
Q2712-05	IA3	Air	Tetrachloroethene	0.47		0.14	0.20	ug/m3
			Total Voc :	0.57				
			Total Concentration:	0.57				
Client ID:	OA1							
Q2712-06	OA1	Air	Tetrachloroethene	0.34		0.14	0.20	ug/m3
			Total Voc :	0.34				
			Total Concentration:	0.34				
Client ID:	IA1							
Q2712-07	IA1	Air	Tetrachloroethene	0.75		0.14	0.20	ug/m3
			Total Voc :	0.75				
			Total Concentration:	0.75				



QC SUMMARY

Surrogate Summary

SDG No.: Q2712

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2712-01	SV1	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q2712-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.2	102		65	135
Q2712-02	SV2	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
Q2712-03	SV3	1-Bromo-4-Fluorobenzene	10	9.91	99		65	135
Q2712-04	IA2	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
Q2712-04DUP	IA2DUP	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q2712-05	IA3	1-Bromo-4-Fluorobenzene	10	10.3	104		65	135
Q2712-06	OA1	1-Bromo-4-Fluorobenzene	10	9.92	99		65	135
Q2712-07	IA1	1-Bromo-4-Fluorobenzene	10	10.4	104		65	135
VL0729ABL01	VL0729ABL01	1-Bromo-4-Fluorobenzene	10	9.87	99		65	135
VL0729ABS01	VL0729ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2712</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042775.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0729ABS01	Vinyl Chloride	10	8.00	ppbv	80			70	130	
	1,1-Dichloroethene	10	8.50	ppbv	85			70	130	
	cis-1,2-Dichloroethene	10	9.60	ppbv	96			70	130	
	1,1,1-Trichloroethane	10	9.50	ppbv	95			70	130	
	Trichloroethene	10	9.70	ppbv	97			70	130	
	Tetrachloroethene	10	9.30	ppbv	93			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2712-04DUP	Q2712-04
Client Id :	IA2DUP	IA2
DF :	1	1
Datafile :	VL042783.D	VL042782.D
Anal Date & Time :	07/29/2025 14:59	07/29/2025 14:24

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.11	0.12	8.7
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA2DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2712

Lab File ID: VL042783.D

Lab Sample ID: Q2712-04DUP

Date Analyzed: 07/29/2025

Time Analyzed: 14:59

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
IA2DUP	Q2712-04DUP	VL042783.D	07/29/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0729ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2712

Lab File ID: VL042774.D

Lab Sample ID: VL0729ABL01

Date Analyzed: 07/29/2025

Time Analyzed: 09:16

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
VL0729ABS01	VL0729ABS01	VL042775.D	07/29/2025
SV1	Q2712-01	VL042776.D	07/29/2025
SV1DL	Q2712-01DL	VL042777.D	07/29/2025
SV2	Q2712-02	VL042778.D	07/29/2025
SV3	Q2712-03	VL042780.D	07/29/2025
IA2	Q2712-04	VL042782.D	07/29/2025
IA3	Q2712-05	VL042784.D	07/29/2025
OA1	Q2712-06	VL042785.D	07/29/2025
IA1	Q2712-07	VL042786.D	07/29/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance
Lab Code: ACE
Lab File ID: VL042746.D
Instrument ID: MSVOA_L
GC Column: RTX-1 ID: 0.32 (mm)

Contract: GFEL01
SDG NO.: Q2712
BFB Injection Date: 07/23/2025
BFB Injection Time: 08:00
Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.9
75	30.0 - 66.0% of mass 95	59.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.5 (0.8) 1
174	50.0 - 120.0% of mass 95	65.3
175	4.0 - 9.0% of mass 174	5.2 (8) 1
176	93.0 - 101.0% of mass 174	64.6 (99) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 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	VL042747.D	07/23/2025	08:58
VSTDICCC002	VSTDICCC002	VL042748.D	07/23/2025	09:34
VSTDICCC001	VSTDICCC001	VL042749.D	07/23/2025	10:08
VSTDICCC0.5	VSTDICCC0.5	VL042750.D	07/23/2025	10:42
VSTDICCC0.03	VSTDICCC0.03	VL042752.D	07/23/2025	11:50
VSTDICCC015	VSTDICCC015	VL042753.D	07/23/2025	12:26
VSTDICCC0.1	VSTDICCC0.1	VL042754.D	07/23/2025	13:00

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2712

Lab File ID: VL042772.D

BFB Injection Date: 07/29/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:37

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	24.8
75	30.0 - 66.0% of mass 95	59
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	0.5 (0.7) 1
174	50.0 - 120.0% of mass 95	64.8
175	4.0 - 9.0% of mass 174	4.8 (7.4) 1
176	93.0 - 101.0% of mass 174	61.9 (95.5) 1
177	5.0 - 9.0% of mass 176	4.1 (6.5) 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	VL042773.D	07/29/2025	08:28
VL0729ABL01	VL0729ABL01	VL042774.D	07/29/2025	09:16
VL0729ABS01	VL0729ABS01	VL042775.D	07/29/2025	10:03
SV1	Q2712-01	VL042776.D	07/29/2025	10:50
SV1DL	Q2712-01DL	VL042777.D	07/29/2025	11:26
SV2	Q2712-02	VL042778.D	07/29/2025	12:02
SV3	Q2712-03	VL042780.D	07/29/2025	13:13
IA2	Q2712-04	VL042782.D	07/29/2025	14:24
IA2DUP	Q2712-04DUP	VL042783.D	07/29/2025	14:59
IA3	Q2712-05	VL042784.D	07/29/2025	15:35
OA1	Q2712-06	VL042785.D	07/29/2025	16:10
IA1	Q2712-07	VL042786.D	07/29/2025	16:48

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q2712
 Lab File ID: VL042773.D Date Analyzed: 07/29/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:28
 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	145476	2.79	401016	3.96	363840	8.89
UPPER LIMIT	203666	3.12	561422	4.29	509376	9.22
LOWER LIMIT	87285.6	2.46	240610	3.63	218304	8.56
EPA SAMPLE NO.						
SV1	151661	2.79	409840	3.97	382977	8.89
SV1DL	150928	2.79	416737	3.97	379617	8.89
SV2	149429	2.79	410248	3.97	394368	8.89
SV3	149648	2.79	397221	3.97	391610	8.89
IA2	149325	2.79	414208	3.97	375602	8.89
IA2DUP	149234	2.79	414556	3.97	375438	8.89
IA3	149475	2.79	412836	3.97	369597	8.89
OA1	149534	2.79	413656	3.97	365762	8.89
IA1	144757	2.79	398064	3.96	363372	8.89
VL0729ABL01	145155	2.79	404421	3.96	360190	8.89
VL0729ABS01	147720	2.79	406248	3.96	362182	8.89

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

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG NO.:	<u>Q2712</u>
Lab File ID:	<u>VL042773.D</u>	Date Analyzed:	<u>07/29/2025</u>
Instrument ID:	<u>MSVOA_L</u>	Time Analyzed:	<u>08:28</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)
		Heated Purge:	(Y/N) <u>N</u>

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
SV1	0	0.00				
SV1DL	0	0.00				
SV2	0	0.00				
SV3	0	0.00				
IA2	0	0.00				
IA2DUP	0	0.00				
IA3	0	0.00				
OA1	0	0.00				
IA1	0	0.00				
VL0729ABL01	0	0.00				
VL0729ABS01	0	0.00				

IS4 =

AREA UPPER LIMIT = +40% of internal standard area
 AREA LOWER LIMIT = -40% of internal standard area
 RT UPPER LIMIT = +0.33 minutes of internal standard RT
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	SV1	SDG No.:	Q2712
Lab Sample ID:	Q2712-01	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
VL042776.D	10		07/29/25 10:50	vl072925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
156-59-2	cis-1,2-Dichloroethene	1.10	4.36	J	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	U	0.87	1.64	ug/m3
79-01-6	Trichloroethene	8.50	45.7		1.29	1.61	ug/m3
127-18-4	Tetrachloroethene	210	1420	E	1.02	2.03	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	152000			2.79		
540-36-3	1,4-Difluorobenzene	410000			3.965		
3114-55-4	Chlorobenzene-d5	383000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042776.D
 Acq On : 29 Jul 2025 10:50
 Operator : SY/MD
 Sample : Q2712-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
 Supervised By : Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:08:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	151661	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	409840	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	382977	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	309355	10.200	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	179518	8.953	ppbv	96
3) Chlorodifluoromethane	1.476	51	240720	9.216	ppbv #	89
10) Heptane	4.994	43	5526m	0.216	ppbv	
11) Trichlorofluoromethane	1.881	101	338950	16.398	ppbv	99
13) Ethanol	1.725	45	4877m	5.903	ppbv	
15) Acetone	1.839	43	73359	3.503	ppbv	98
26) Hexane	2.829	57	18933	0.931	ppbv #	43
29) Chloroform	2.855	83	16839	0.536	ppbv	94
31) cis-1,2-Dichloroethene	2.725	61	2211	0.106	ppbv #	81
34) 2-Butanone	2.567	43	17553	0.605	ppbv	100
38) Trichloroethene	4.554	130	15898m	0.852	ppbv	
52) Tetrachloroethene	8.234	164	331325	20.579	ppbv	97
53) Toluene	6.946	91	12967m	0.311	ppbv	
59) m/p-Xylene	9.542	91	20861	0.432	ppbv	100
60) o-Xylene	9.969	91	11841	0.245	ppbv	93
74) 1,2,4-Trimethylbenzene	11.542	105	7384	0.143	ppbv #	65
79) Naphthalene	13.516	128	2825	0.483	ppbv #	11

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

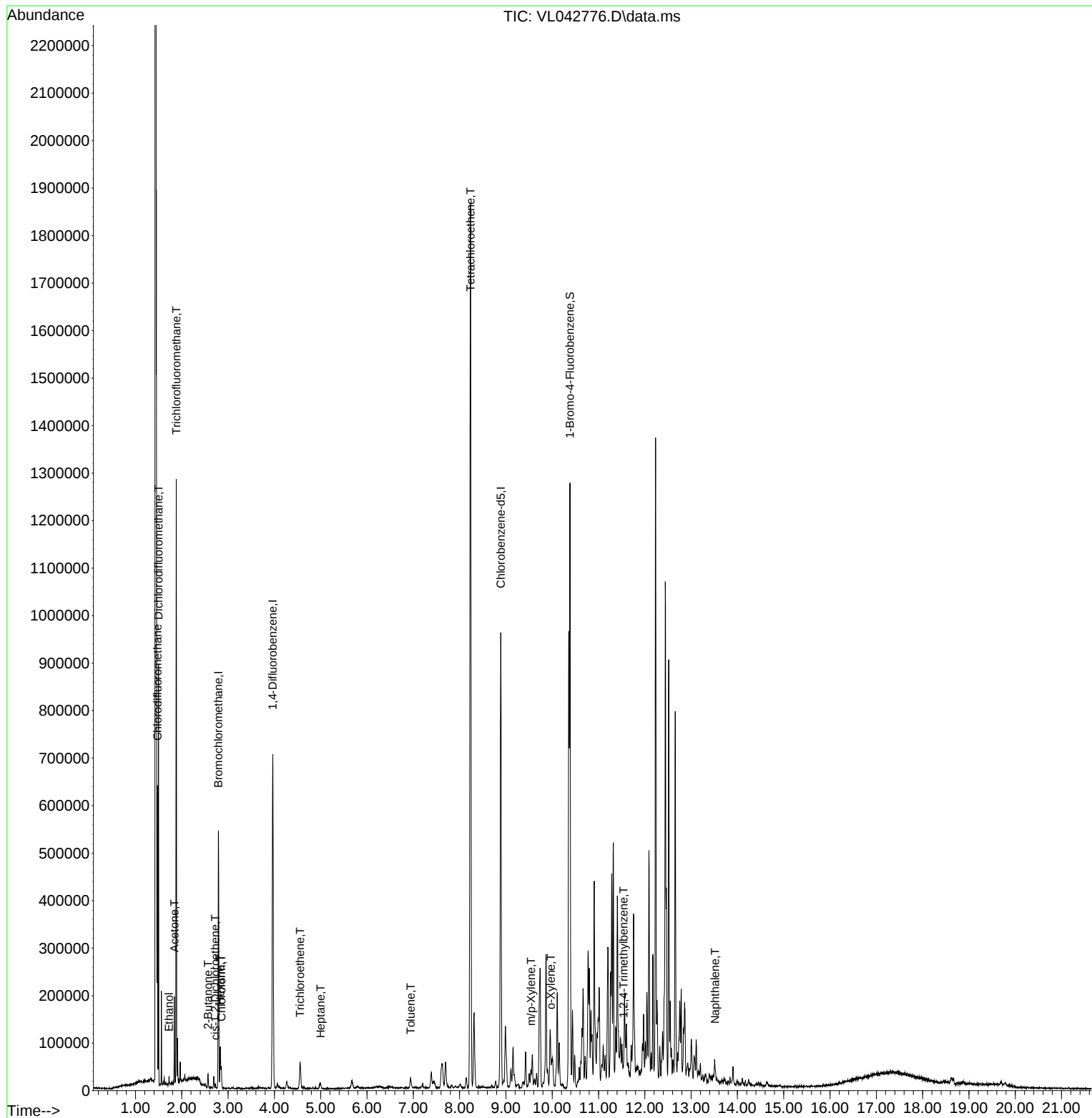
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042776.D
Acq On : 29 Jul 2025 10:50
Operator : SY/MD
Sample : Q2712-01 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

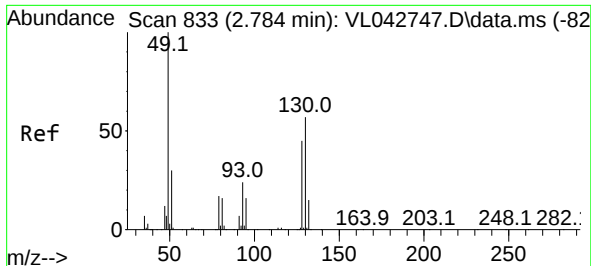
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

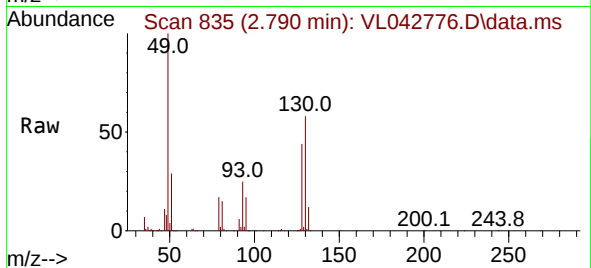
Quant Time: Jul 30 01:08:13 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

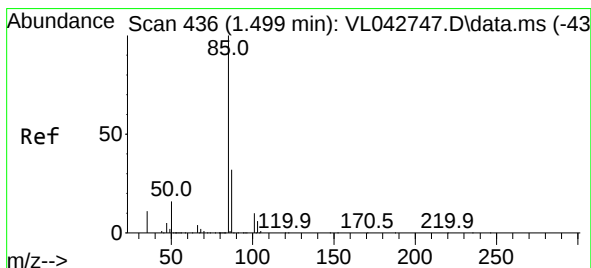
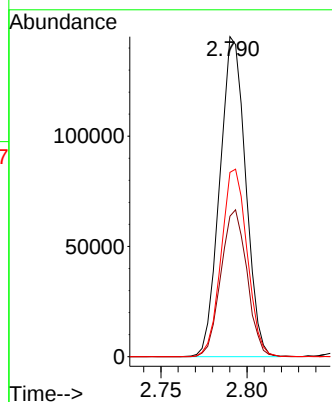
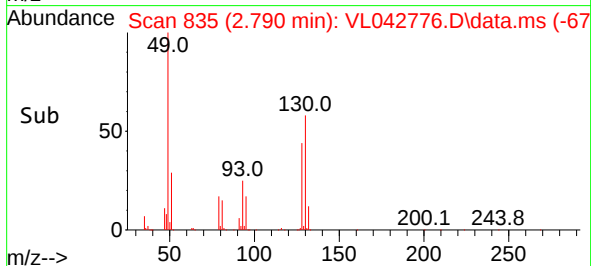
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 15166
Ion Ratio Lower Upper
49 100
128 46.3 23.6 71.0
130 58.8 30.3 90.8

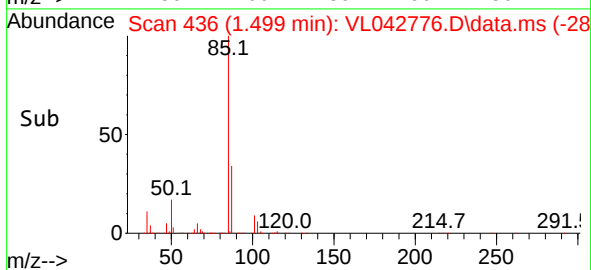
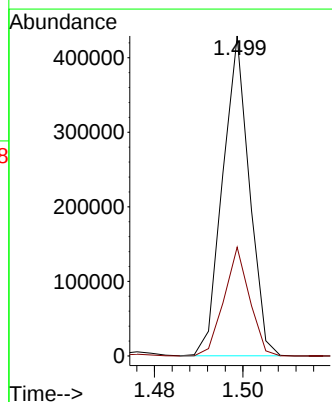
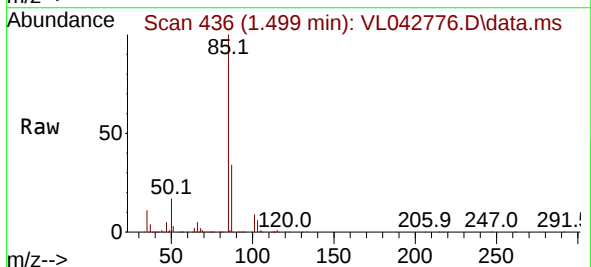
Manual Integrations
APPROVED

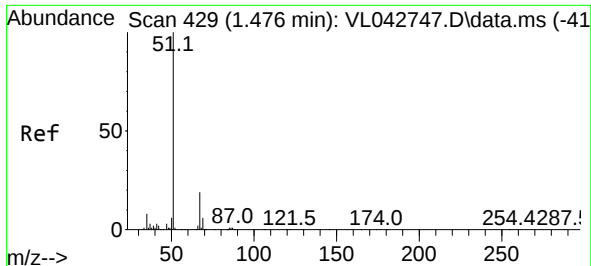
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 8.953 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

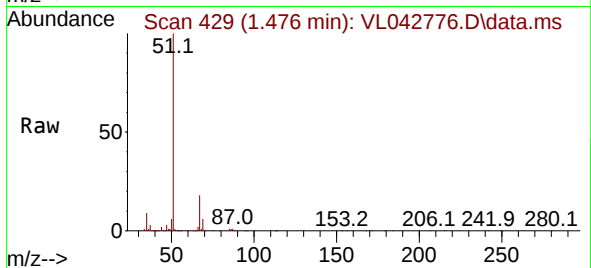
Tgt Ion: 85 Resp: 179518
Ion Ratio Lower Upper
85 100
87 34.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 9.216 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

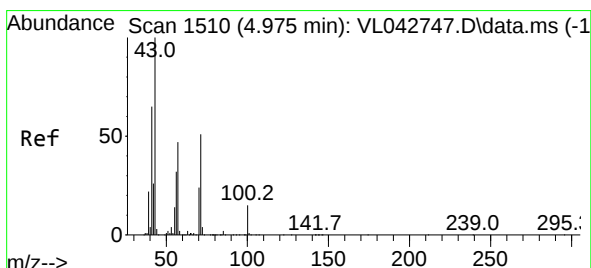
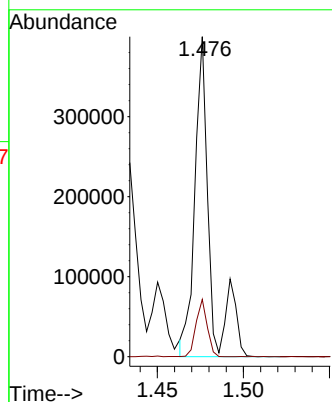
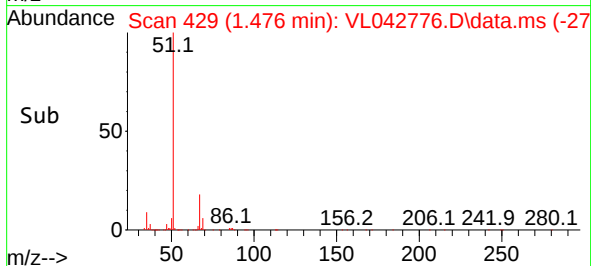
Instrument :
MSVOA_L
ClientSampleId :
SV1



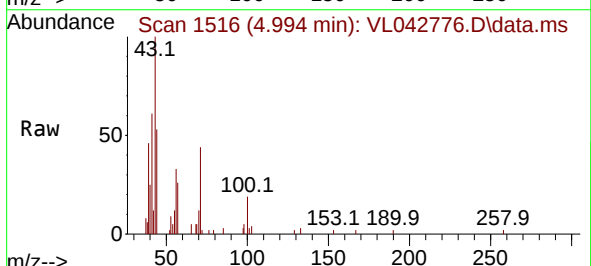
Tgt Ion: 51 Resp: 240720
Ion Ratio Lower Upper
51 100
67 13.9 15.0 22.6

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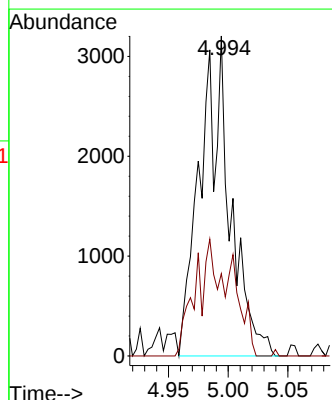
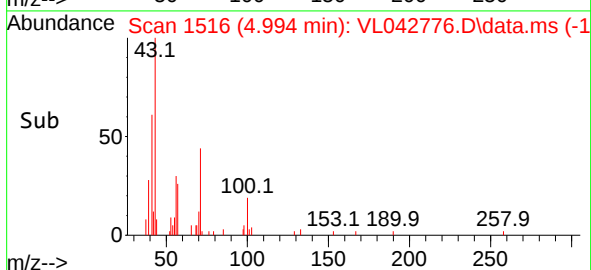
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

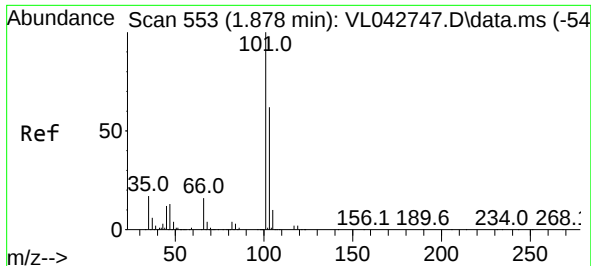


#10
Heptane
Concen: 0.216 ppbv m
RT: 4.994 min Scan# 1516
Delta R.T. 0.019 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50



Tgt Ion: 43 Resp: 5526
Ion Ratio Lower Upper
43 100
57 43.6 39.9 59.9





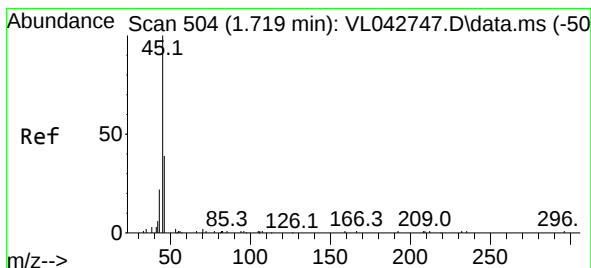
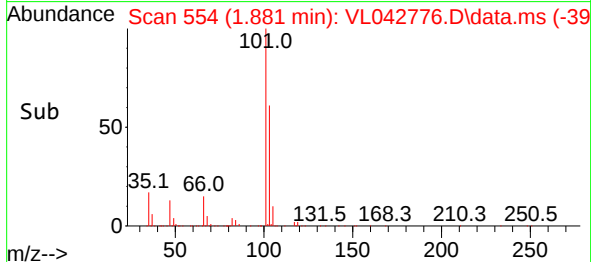
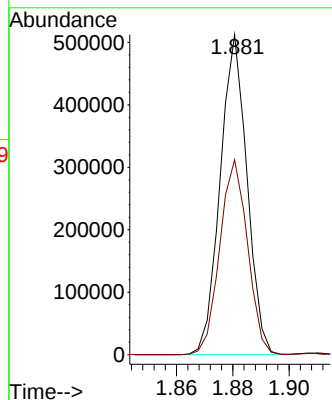
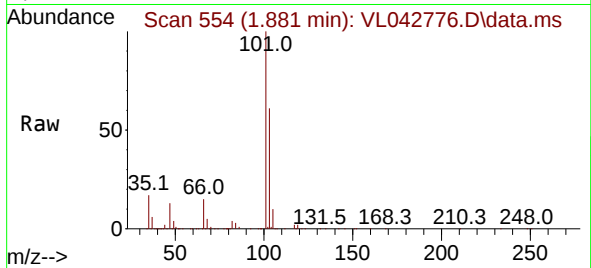
#11
Trichlorofluoromethane
Concen: 16.398 ppbv
RT: 1.881 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:101 Resp: 338950
Ion Ratio Lower Upper
101 100
103 60.9 49.6 74.4

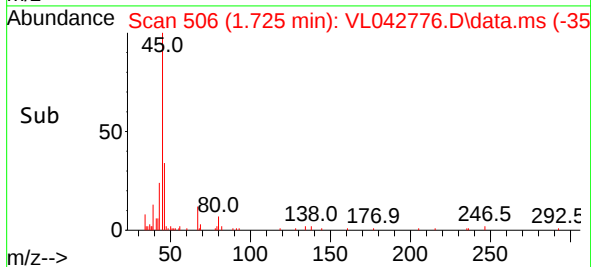
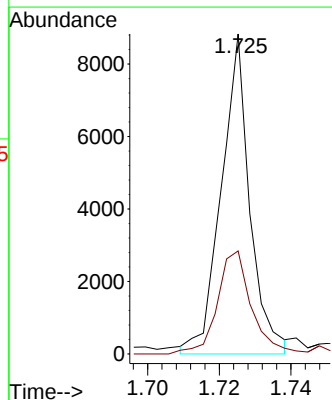
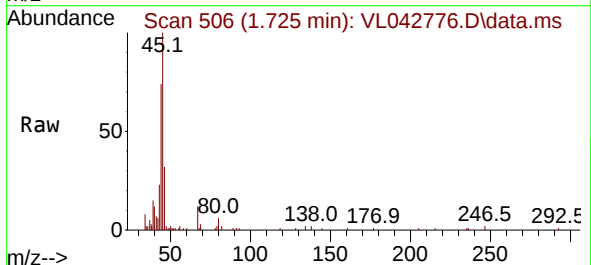
Manual Integrations
APPROVED

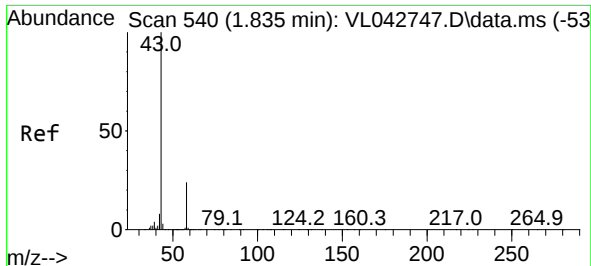
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#13
Ethanol
Concen: 5.903 ppbv m
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

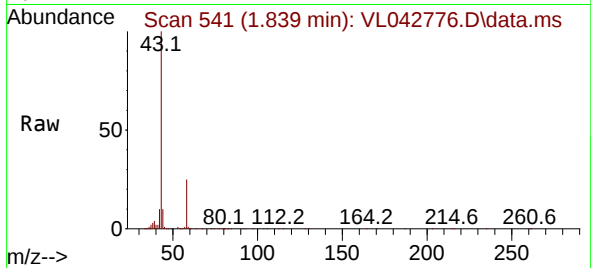
Tgt Ion: 45 Resp: 4877
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4#





#15
Acetone
Concen: 3.503 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

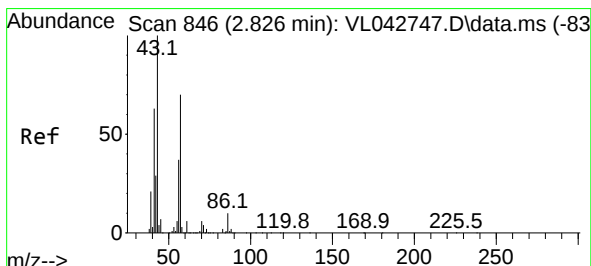
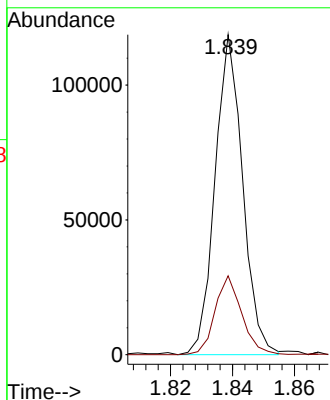
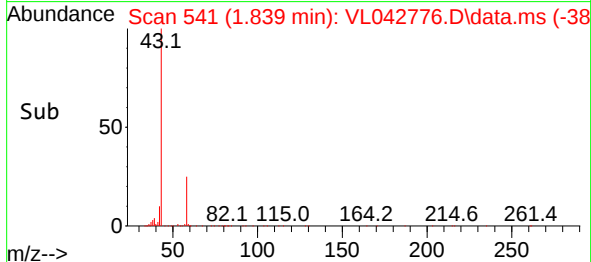
Instrument :
MSVOA_L
ClientSampleId :
SV1



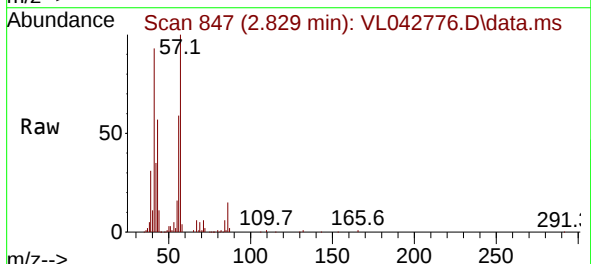
Tgt Ion: 43 Resp: 73359
Ion Ratio Lower Upper
43 100
58 24.0 19.8 29.8

Manual Integrations
APPROVED

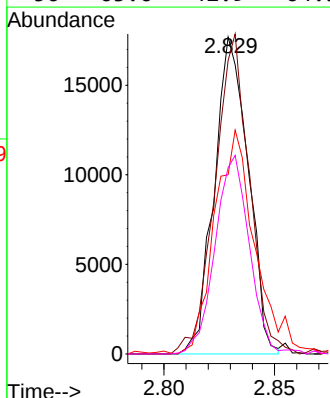
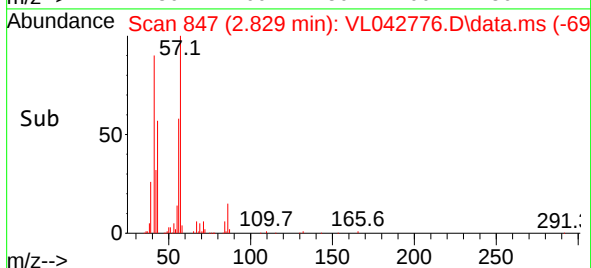
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

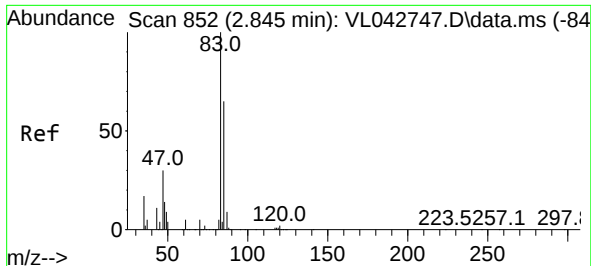


#26
Hexane
Concen: 0.931 ppbv
RT: 2.829 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50



Tgt Ion: 57 Resp: 18933
Ion Ratio Lower Upper
57 100
41 102.1 75.4 113.2
43 85.8 185.0 277.6#
56 63.6 42.9 64.3





#29

Chloroform

Concen: 0.536 ppbv

RT: 2.855 min Scan# 815

Delta R.T. 0.010 min

Lab File: VL042776.D

Acq: 29 Jul 2025 10:50

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 16839

Ion Ratio Lower Upper

83 100

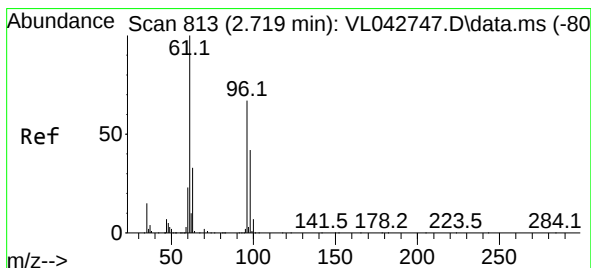
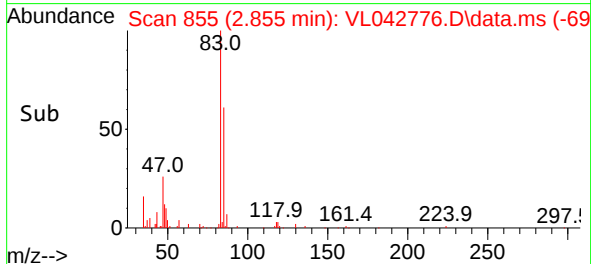
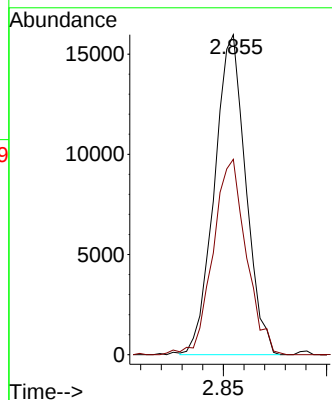
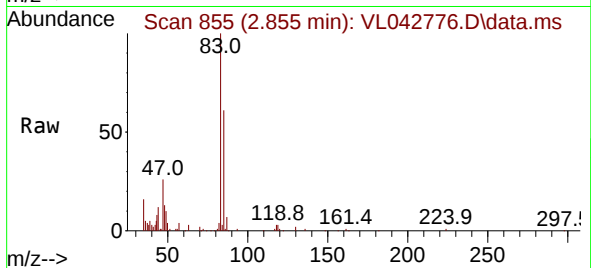
85 60.5 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#31

cis-1,2-Dichloroethene

Concen: 0.106 ppbv

RT: 2.725 min Scan# 815

Delta R.T. 0.006 min

Lab File: VL042776.D

Acq: 29 Jul 2025 10:50

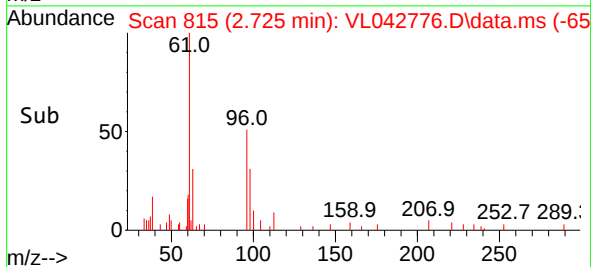
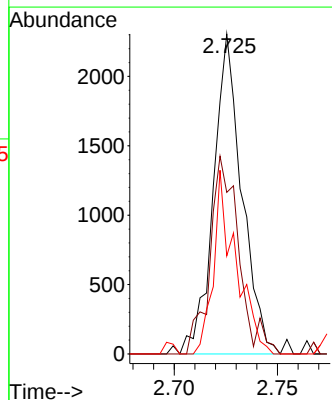
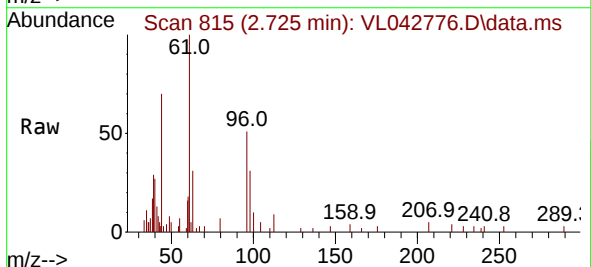
Tgt Ion: 61 Resp: 2211

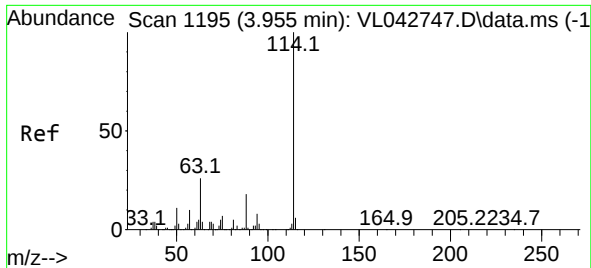
Ion Ratio Lower Upper

61 100

96 50.5 53.5 80.3#

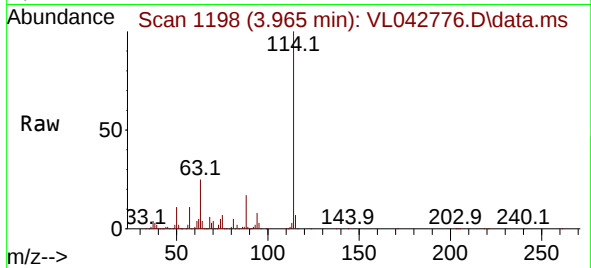
98 30.7 33.6 50.4#





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1195
Delta R.T. 0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

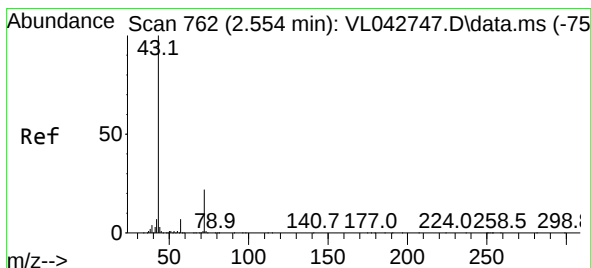
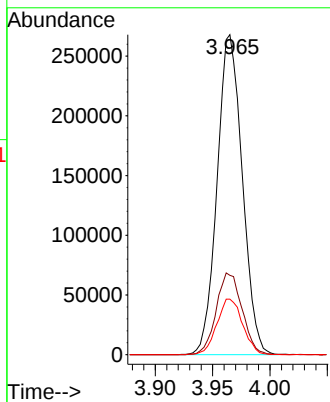
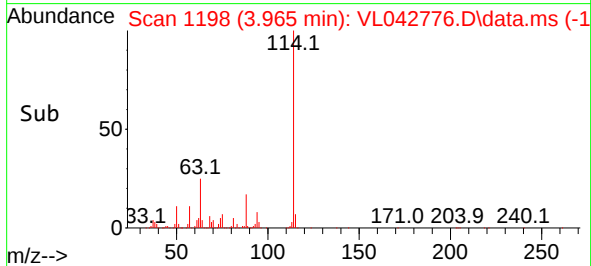
Instrument :
MSVOA_L
ClientSampleId :
SV1



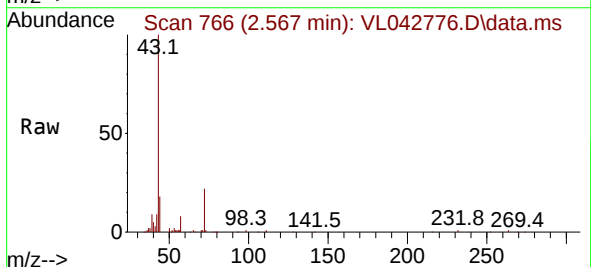
Tgt Ion:114 Resp: 409840
Ion Ratio Lower Upper
114 100
63 26.2 20.5 30.7
88 17.8 14.0 21.0

Manual Integrations
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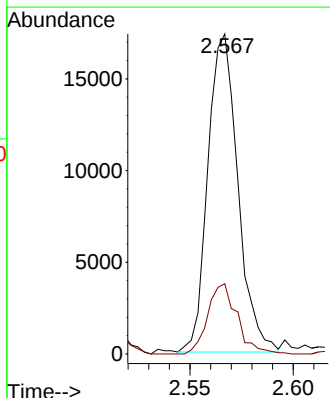
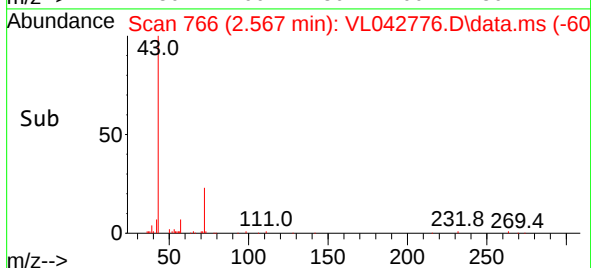
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

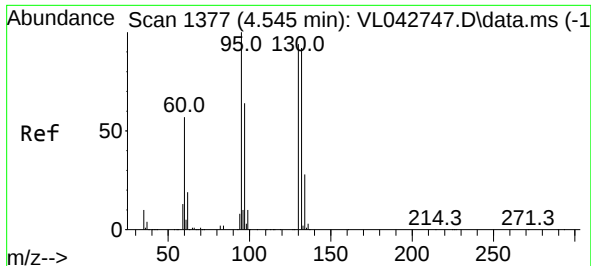


#34
2-Butanone
Concen: 0.605 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50



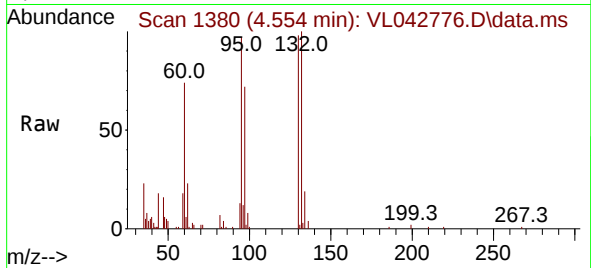
Tgt Ion: 43 Resp: 17553
Ion Ratio Lower Upper
43 100
72 21.6 17.4 26.0





#38
 Trichloroethene
 Concen: 0.852 ppbv m
 RT: 4.554 min Scan# 1377
 Delta R.T. 0.010 min
 Lab File: VL042776.D
 Acq: 29 Jul 2025 10:50

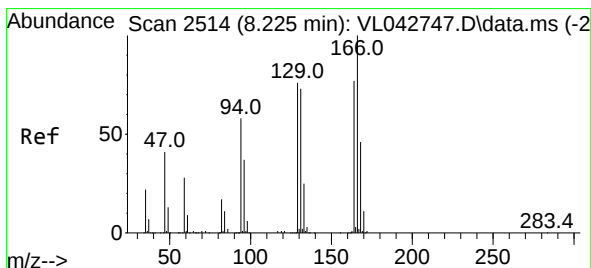
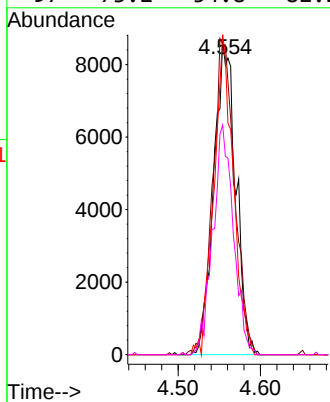
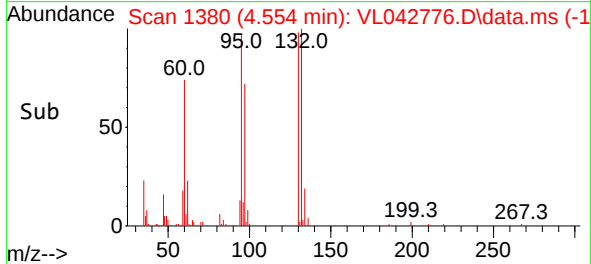
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:130 Resp: 1589
 Ion Ratio Lower Upper
 130 100
 95 98.8 85.4 128.2
 132 101.9 78.2 117.2
 97 73.2 54.8 82.2

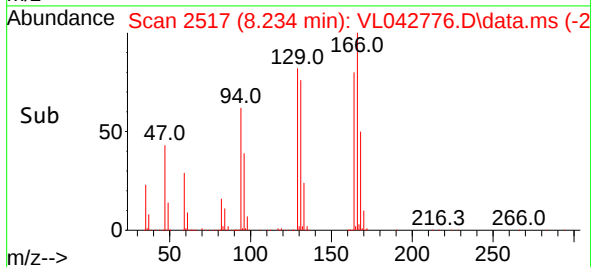
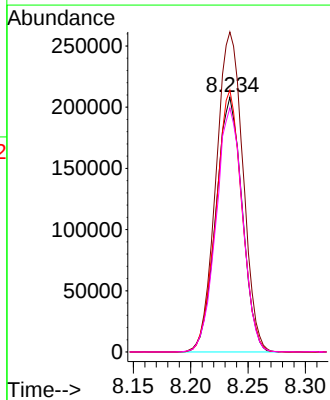
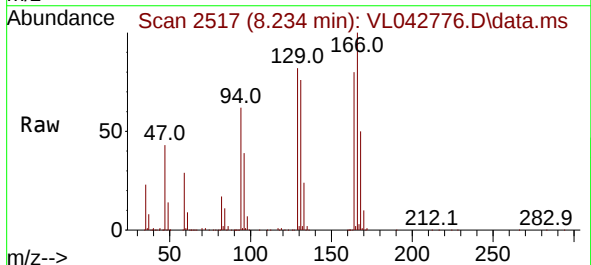
Manual Integrations
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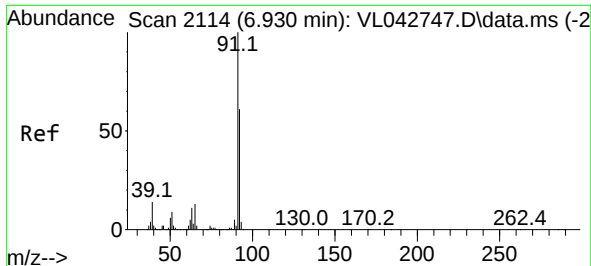
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#52
 Tetrachloroethene
 Concen: 20.579 ppbv
 RT: 8.234 min Scan# 2517
 Delta R.T. 0.010 min
 Lab File: VL042776.D
 Acq: 29 Jul 2025 10:50

Tgt Ion:164 Resp: 331325
 Ion Ratio Lower Upper
 164 100
 166 125.6 104.0 156.0
 129 102.9 79.2 118.8
 131 95.8 76.2 114.4





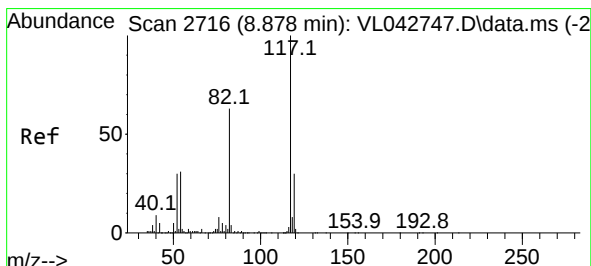
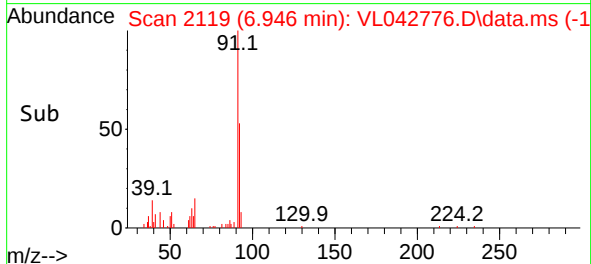
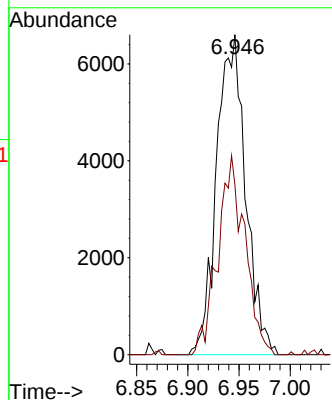
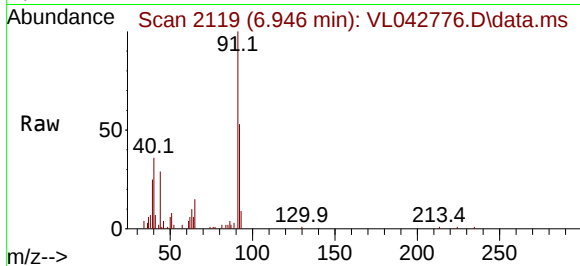
#53
Toluene
Concen: 0.311 ppbv m
RT: 6.946 min Scan# 2114
Delta R.T. 0.016 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 1296
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0

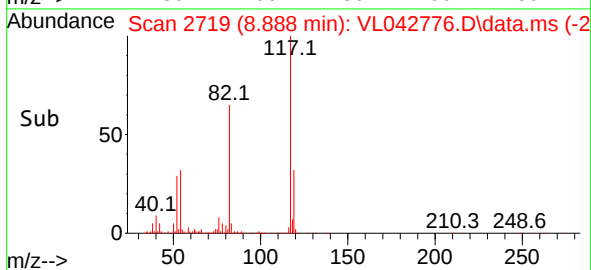
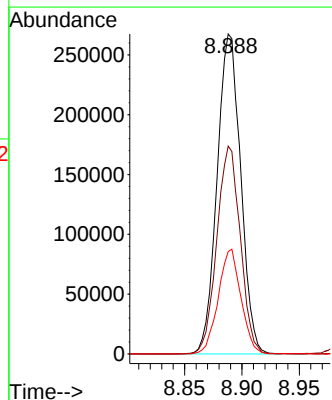
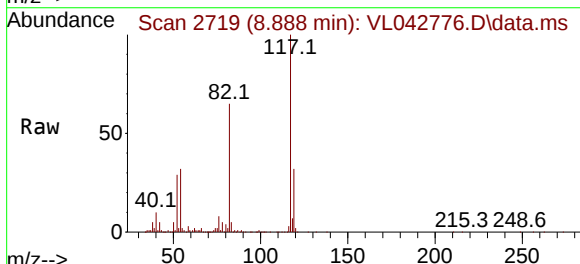
Manual Integrations
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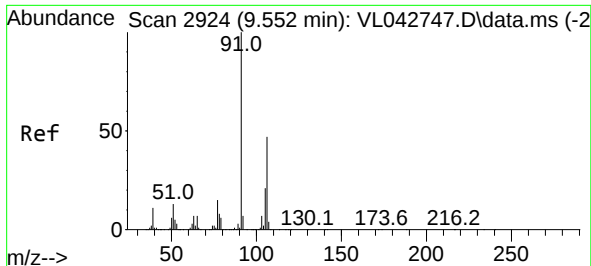
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Tgt Ion:117 Resp: 382977
Ion Ratio Lower Upper
117 100
82 64.6 53.3 79.9
119 31.6 25.8 38.6





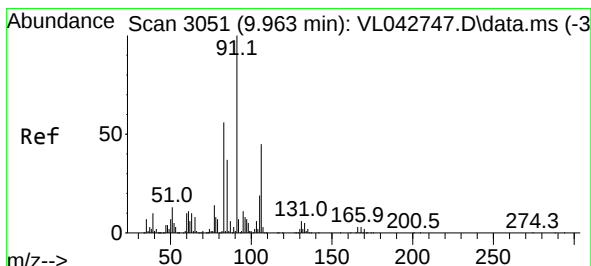
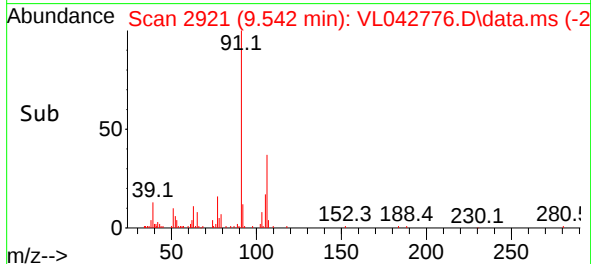
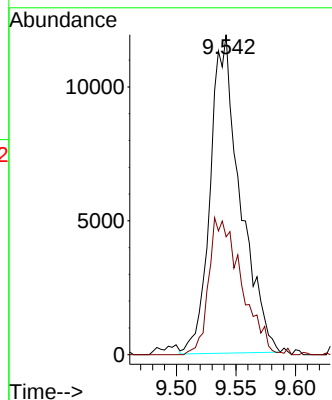
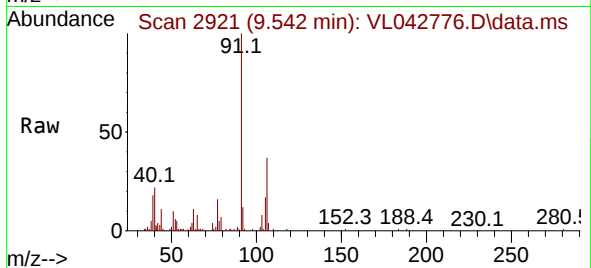
#59
m/p-Xylene
Concen: 0.432 ppbv
RT: 9.542 min Scan# 2924
Delta R.T. -0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 2086
Ion Ratio Lower Upper
91 100
106 47.0 37.4 56.2

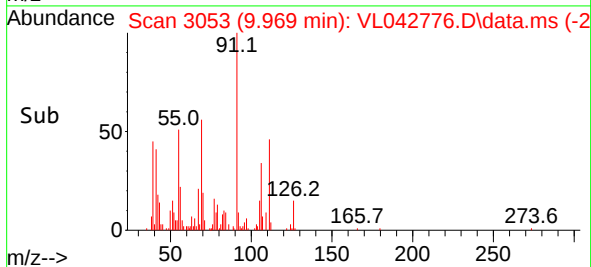
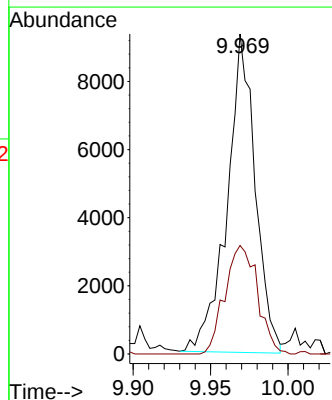
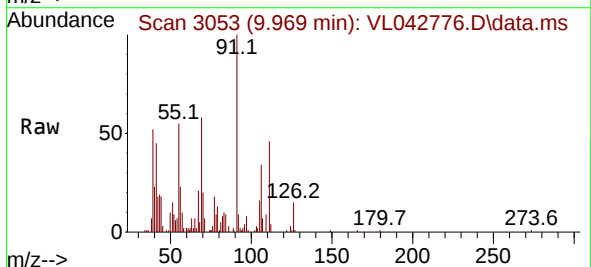
Manual Integrations
APPROVED

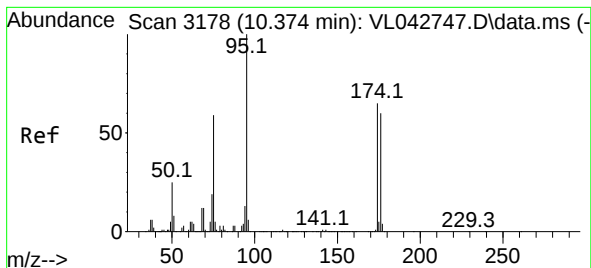
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#60
o-Xylene
Concen: 0.245 ppbv
RT: 9.969 min Scan# 3053
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Tgt Ion: 91 Resp: 11841
Ion Ratio Lower Upper
91 100
106 39.7 22.0 66.0





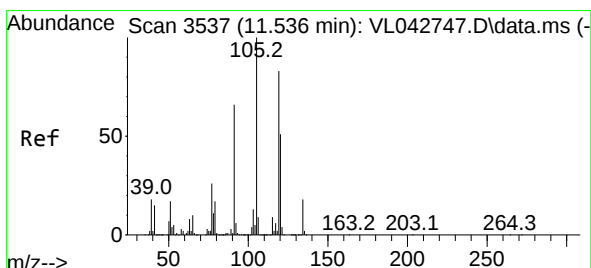
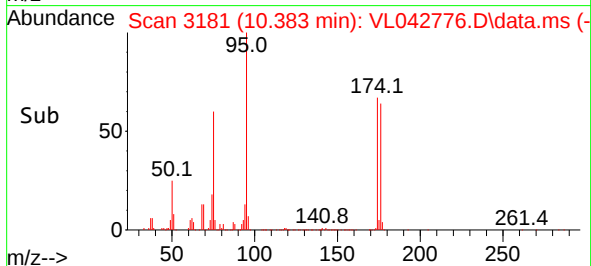
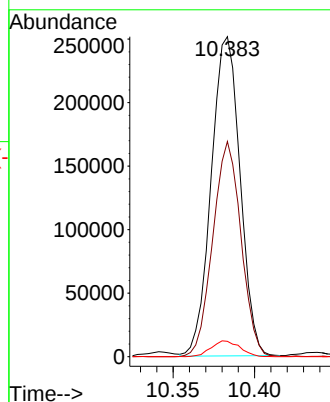
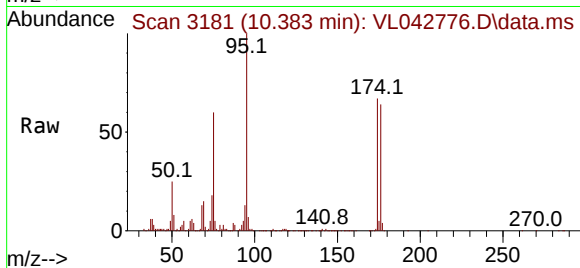
#68
1-Bromo-4-Fluorobenzene
Concen: 10.200 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 30935
Ion Ratio Lower Upper
95 100
174 66.2 53.8 80.6
175 5.0 4.0 6.0

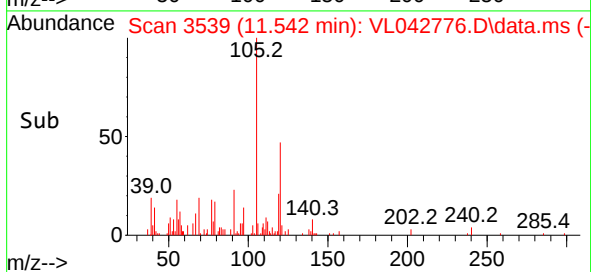
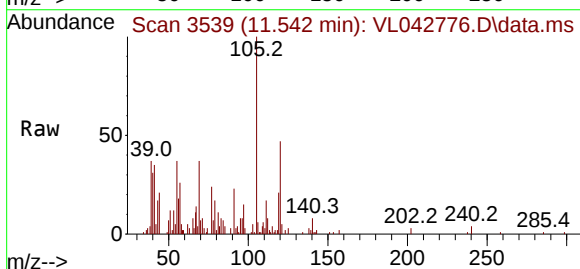
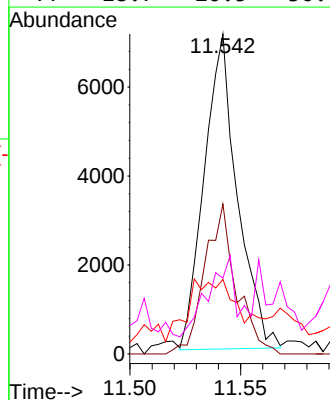
Manual Integrations
APPROVED

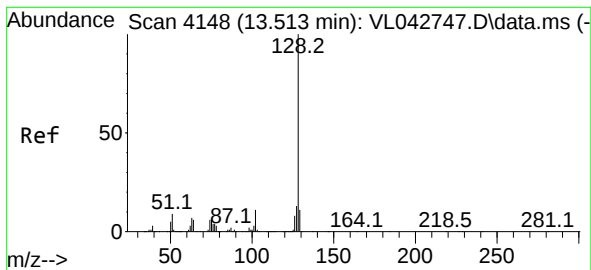
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

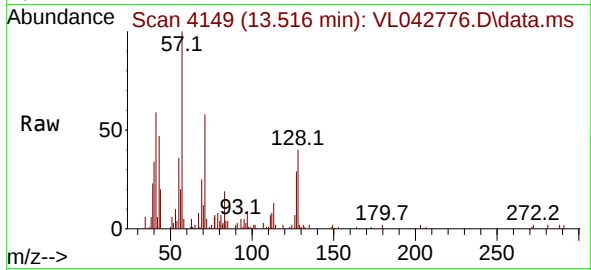
Tgt Ion:105 Resp: 7384
Ion Ratio Lower Upper
105 100
120 47.8 40.8 61.2
91 12.8 53.0 79.4#
77 18.7 20.5 30.7#





#79
Naphthalene
Concen: 0.483 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042776.D
Acq: 29 Jul 2025 10:50

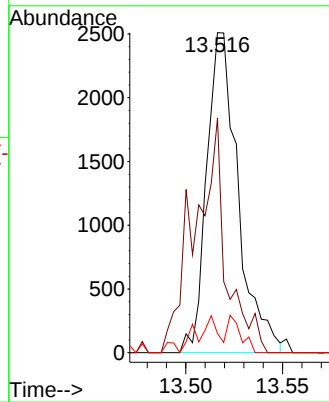
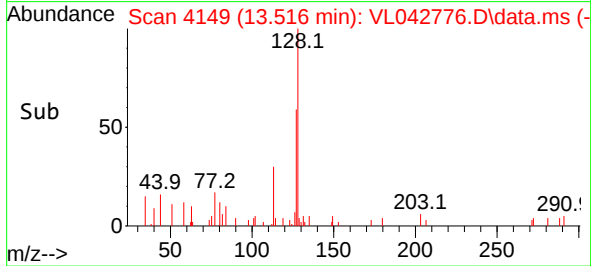
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:128 Resp: 2825
Ion Ratio Lower Upper
128 100
127 73.3 10.5 15.7
129 6.0 8.6 13.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	SV1DL	SDG No.:	Q2712
Lab Sample ID:	Q2712-01DL	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
VL042777.D	40		07/29/25 11:26	vl072925

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
75-35-4	1,1-Dichloroethene	6.00	23.8	UD	23.8	79.3	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
79-01-6	Trichloroethene	9.30	50.0	D	5.16	6.45	ug/m3
127-18-4	Tetrachloroethene	220	1490	D	4.07	8.14	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	151000		2.793			
540-36-3	1,4-Difluorobenzene	417000		3.965			
3114-55-4	Chlorobenzene-d5	380000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042777.D
 Acq On : 29 Jul 2025 11:26
 Operator : SY/MD
 Sample : Q2712-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:09:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	150928	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	416737	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379617	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 306954 10.210 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 102.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	40115	2.010	ppbv	95
3) Chlorodifluoromethane	1.476	51	68331	2.629	ppbv #	88
11) Trichlorofluoromethane	1.881	101	90539	4.402	ppbv	92
13) Ethanol	1.725	45	1670m	1.276	ppbv	
15) Acetone	1.839	43	21573	1.035	ppbv	95
26) Hexane	2.832	57	5066m	0.250	ppbv	
29) Chloroform	2.852	83	4427	0.142	ppbv	85
34) 2-Butanone	2.570	43	4617	0.156	ppbv #	88
38) Trichloroethene	4.554	130	4416m	0.233	ppbv	
52) Tetrachloroethene	8.234	164	91193	5.570	ppbv	95
59) m/p-Xylene	9.542	91	5374m	0.112	ppbv	

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

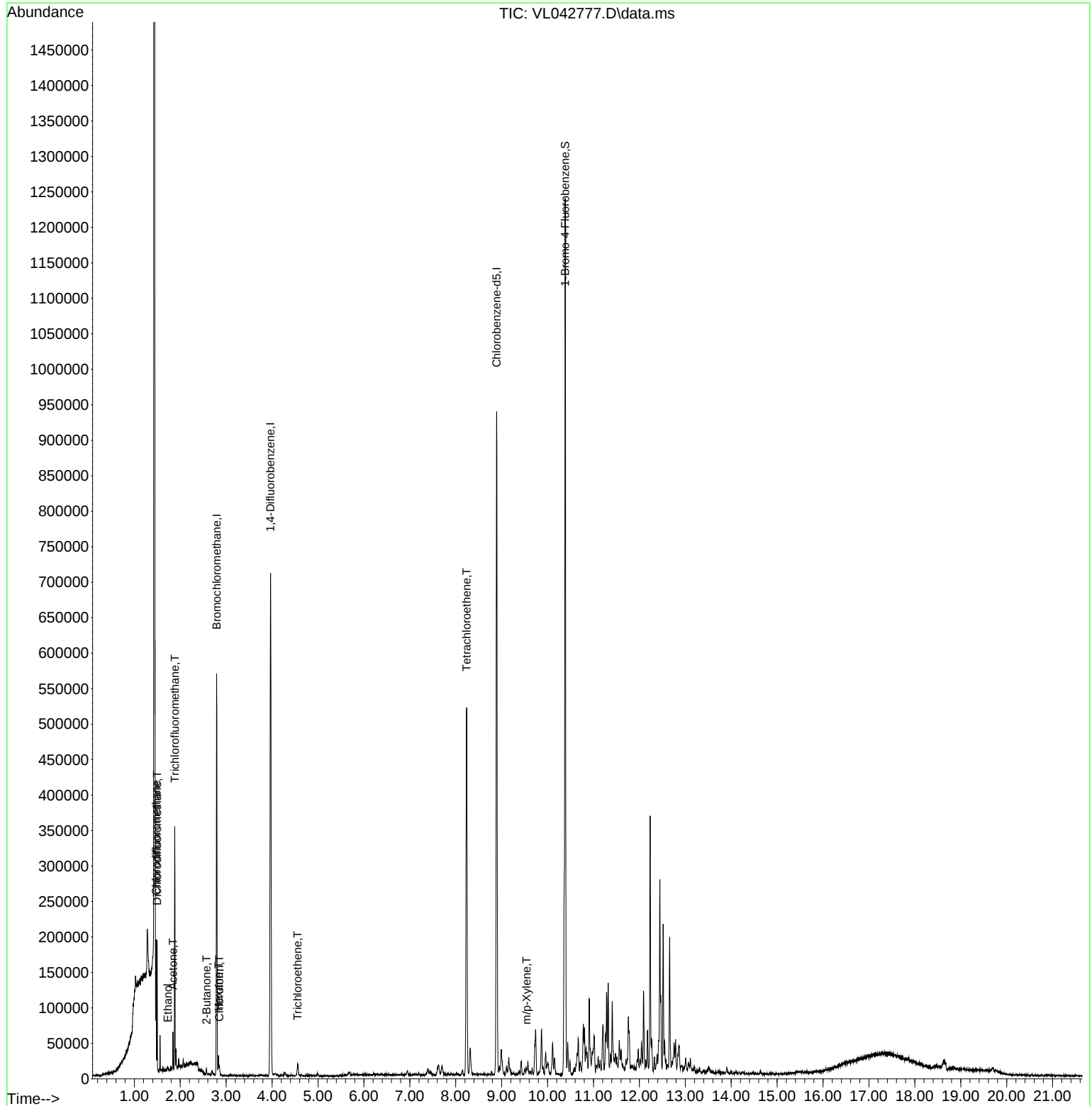
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042777.D
Acq On : 29 Jul 2025 11:26
Operator : SY/MD
Sample : Q2712-01DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

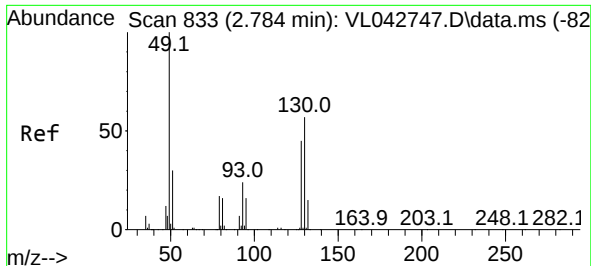
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
Supervised By : Mahesh Dadoda 07/30/2025

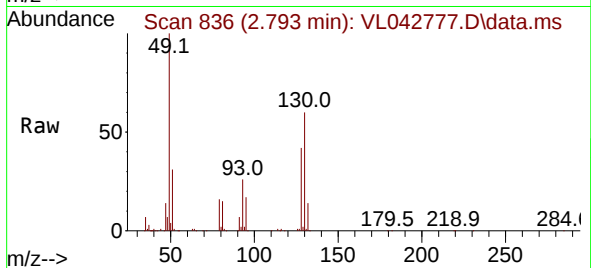
Quant Time: Jul 30 01:09:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 836
Delta R.T. 0.009 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

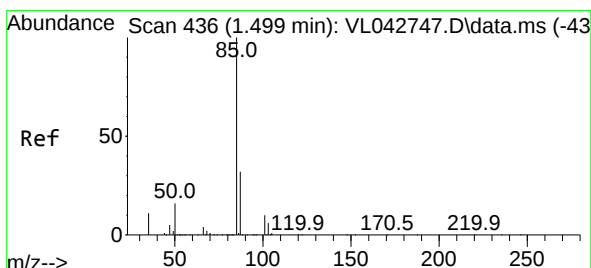
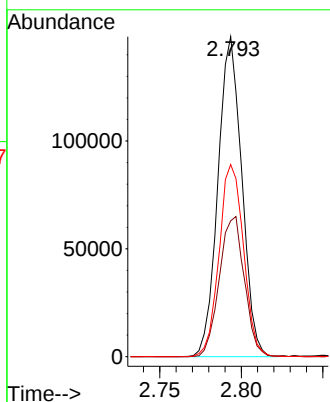
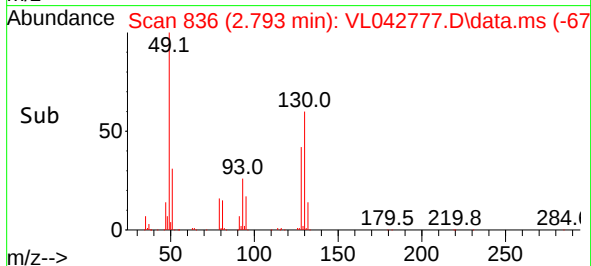
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 49 Resp: 150928
Ion Ratio Lower Upper
49 100
128 46.0 23.6 71.0
130 61.5 30.3 90.8

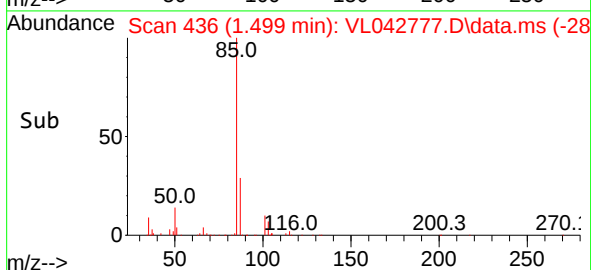
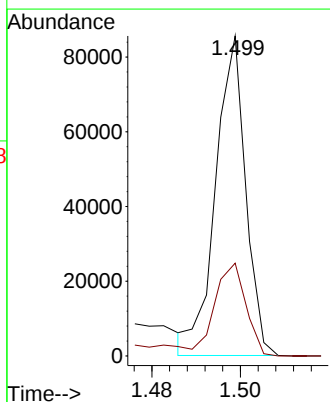
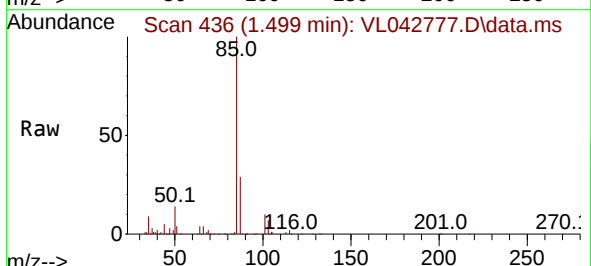
Manual Integrations
APPROVED

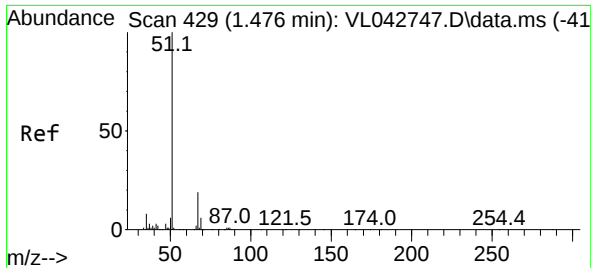
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 2.010 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

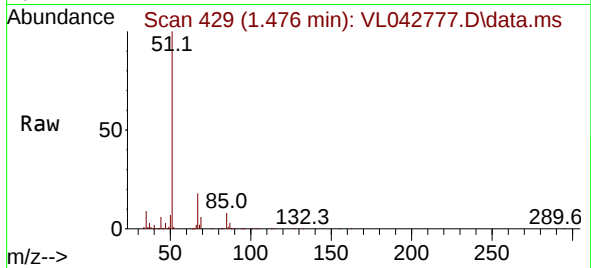
Tgt Ion: 85 Resp: 40115
Ion Ratio Lower Upper
85 100
87 29.0 25.4 38.2





#3
Chlorodifluoromethane
Concen: 2.629 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.000 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

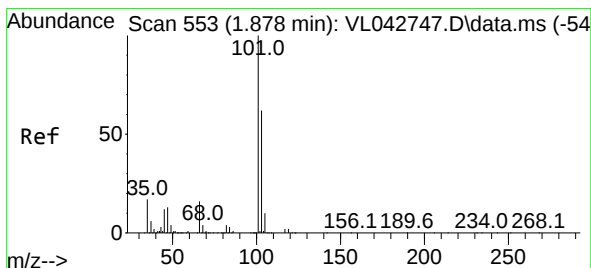
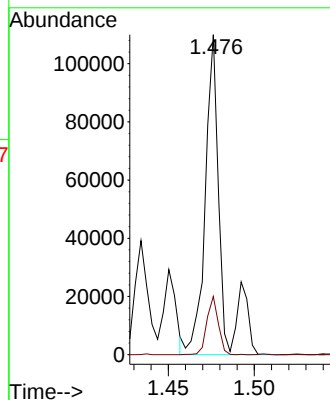
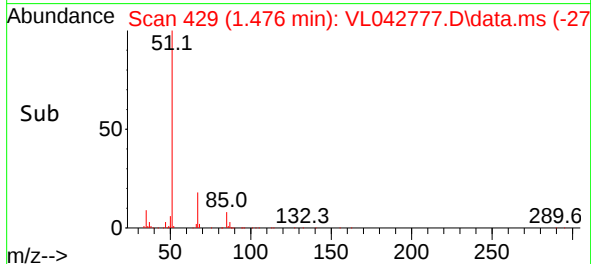
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 51 Resp: 6833
Ion Ratio Lower Upper
51 100
67 13.6 15.0 22.6

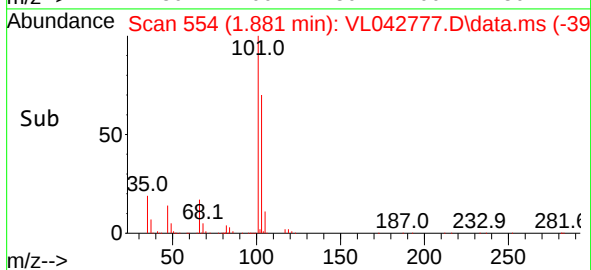
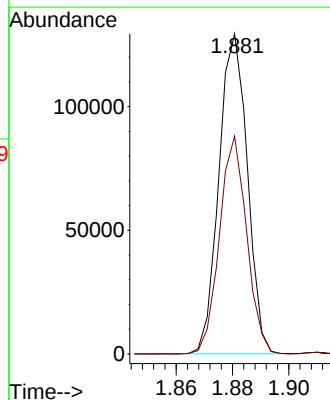
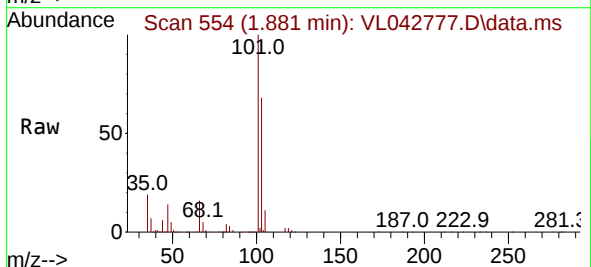
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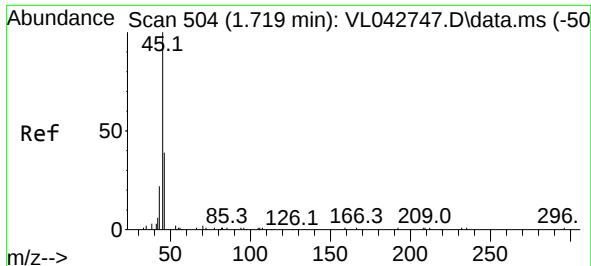
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#11
Trichlorofluoromethane
Concen: 4.402 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

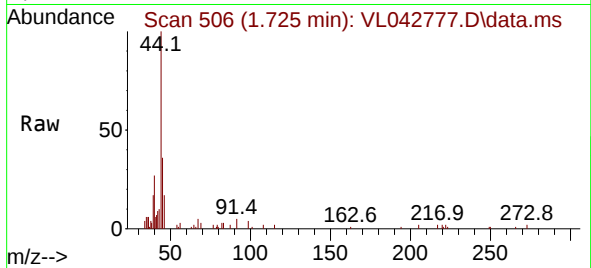
Tgt Ion:101 Resp: 90539
Ion Ratio Lower Upper
101 100
103 68.1 49.6 74.4





#13
Ethanol
Concen: 1.276 ppbv m
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

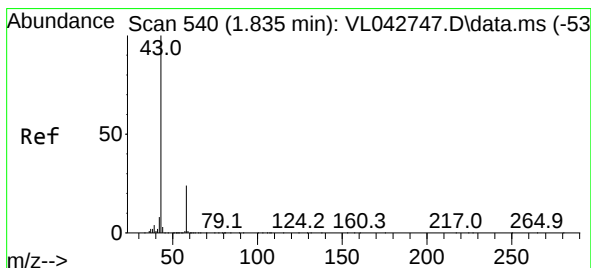
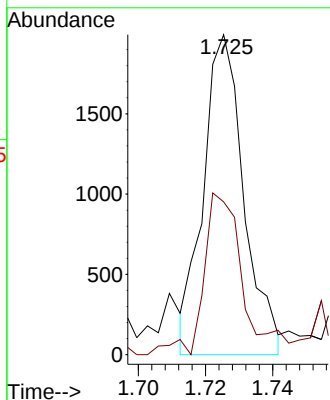
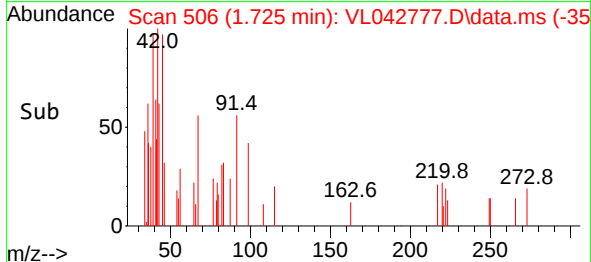
Instrument :
MSVOA_L
ClientSampleId :
SV1DL



Tgt Ion: 45 Resp: 1670
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4

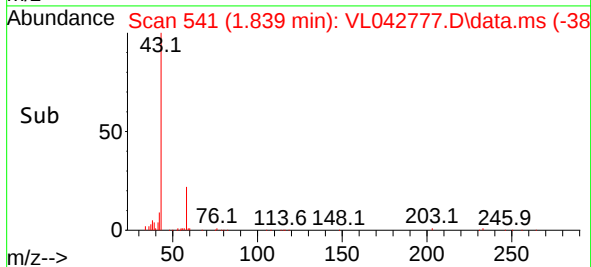
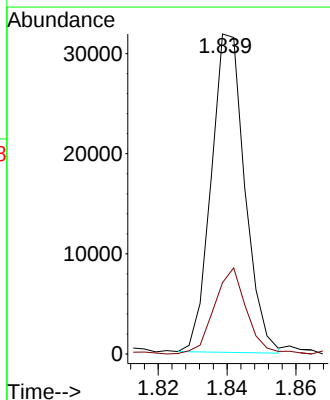
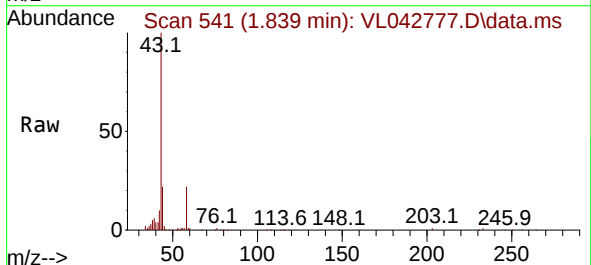
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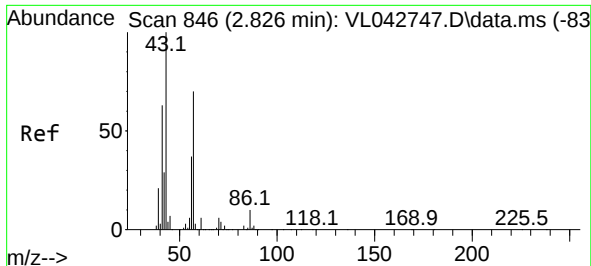
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#15
Acetone
Concen: 1.035 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

Tgt Ion: 43 Resp: 21573
Ion Ratio Lower Upper
43 100
58 27.3 19.8 29.8





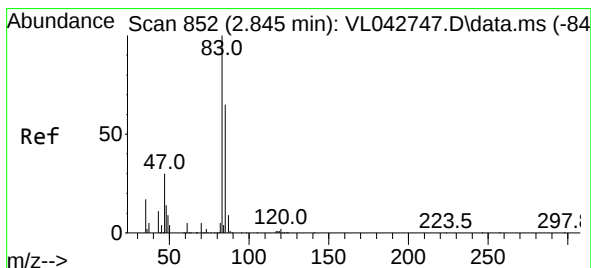
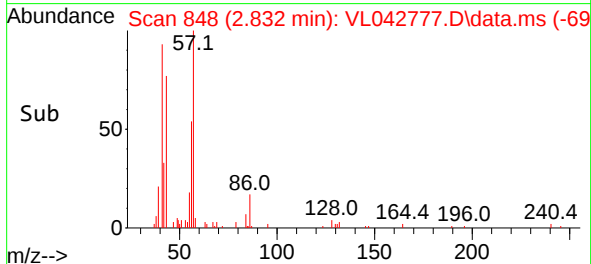
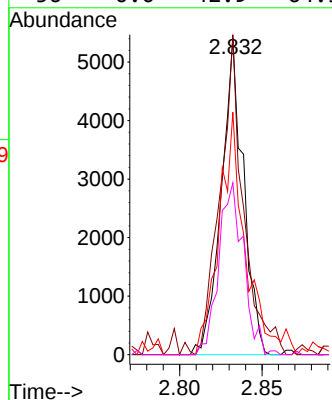
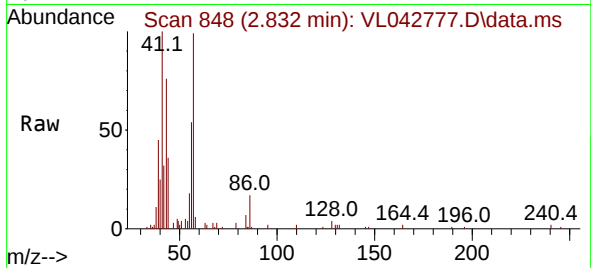
#26
Hexane
Concen: 0.250 ppbv m
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 57 Resp: 5060
Ion Ratio Lower Upper
57 100
41 0.0 75.4 113.2
43 0.0 185.0 277.6
56 0.0 42.9 64.3

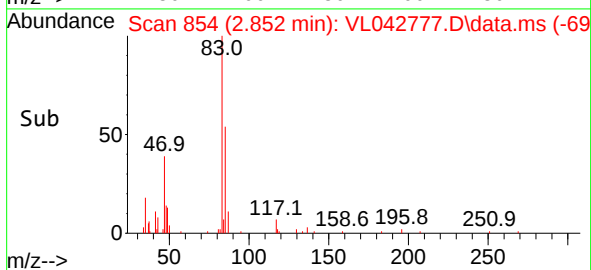
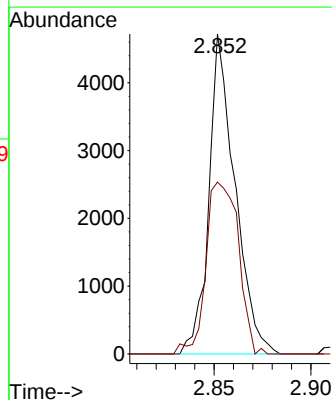
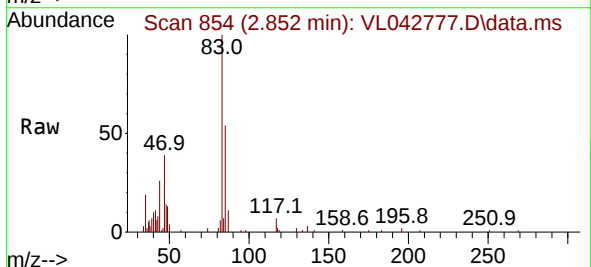
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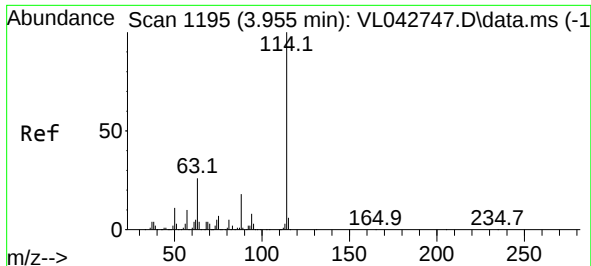
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#29
Chloroform
Concen: 0.142 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042777.D
Acq: 29 Jul 2025 11:26

Tgt Ion: 83 Resp: 4427
Ion Ratio Lower Upper
83 100
85 53.7 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042777.D

Acq: 29 Jul 2025 11:26

Instrument :

MSVOA_L

ClientSampleId :

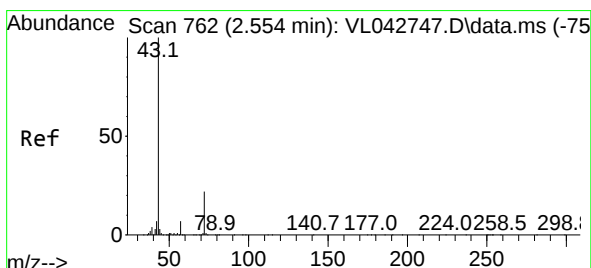
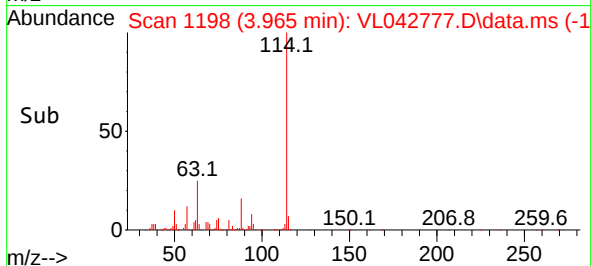
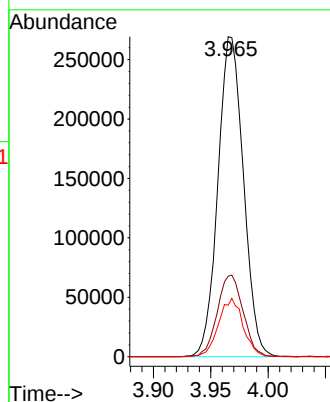
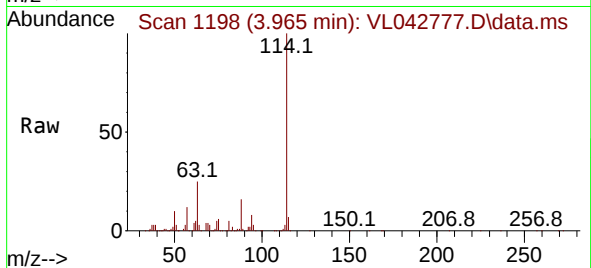
SV1DL

Tgt Ion:114 Resp: 41673
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.6 14.0 21.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#34

2-Butanone

Concen: 0.156 ppbv

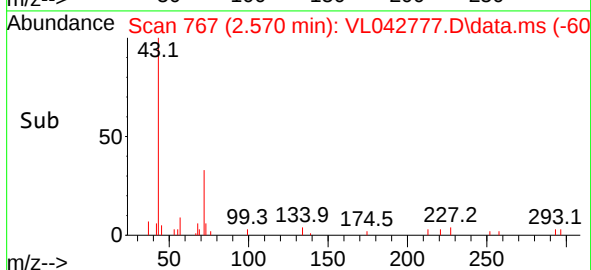
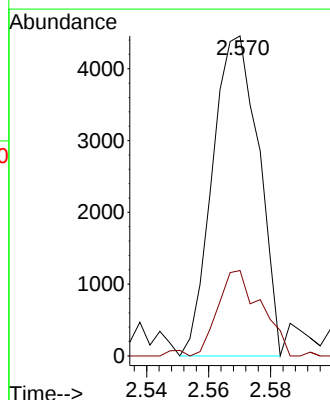
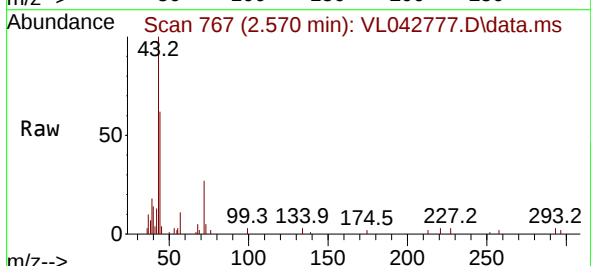
RT: 2.570 min Scan# 767

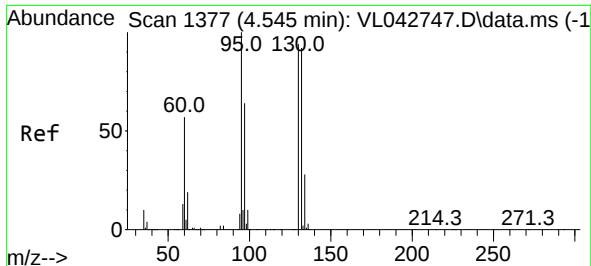
Delta R.T. 0.016 min

Lab File: VL042777.D

Acq: 29 Jul 2025 11:26

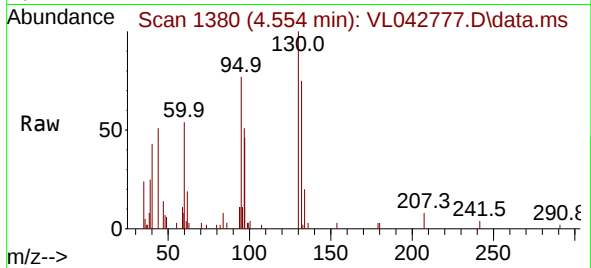
Tgt Ion: 43 Resp: 4617
 Ion Ratio Lower Upper
 43 100
 72 27.4 17.4 26.0





#38
 Trichloroethene
 Concen: 0.233 ppbv m
 RT: 4.554 min Scan# 1377
 Delta R.T. 0.010 min
 Lab File: VL042777.D
 Acq: 29 Jul 2025 11:26

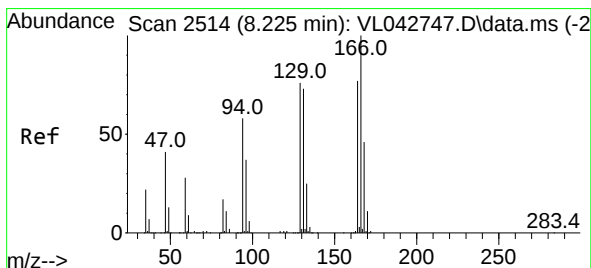
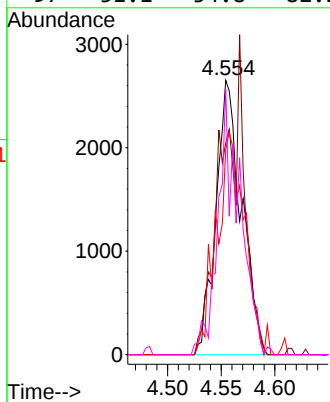
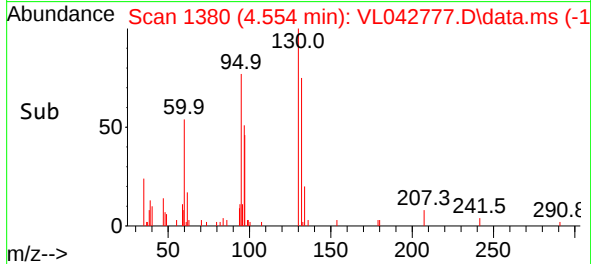
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion:130 Resp: 4410
 Ion Ratio Lower Upper
 130 100
 95 77.1 85.4 128.2
 132 74.7 78.2 117.2
 97 51.1 54.8 82.2

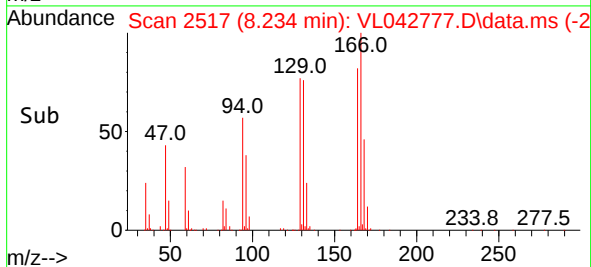
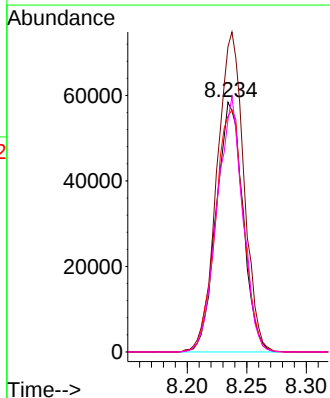
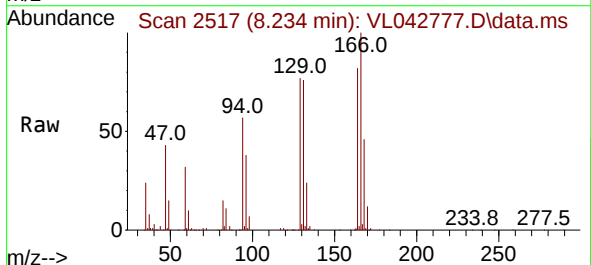
Manual Integrations
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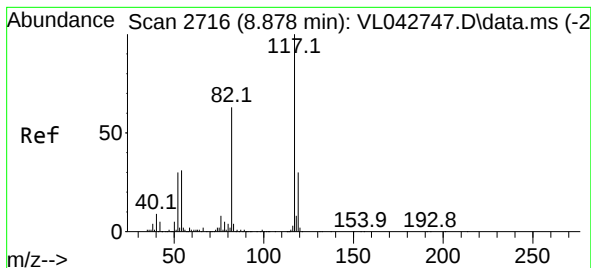
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#52
 Tetrachloroethene
 Concen: 5.570 ppbv
 RT: 8.234 min Scan# 2517
 Delta R.T. 0.010 min
 Lab File: VL042777.D
 Acq: 29 Jul 2025 11:26

Tgt Ion:164 Resp: 91193
 Ion Ratio Lower Upper
 164 100
 166 122.2 104.0 156.0
 129 94.4 79.2 118.8
 131 92.9 76.2 114.4





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL042777.D

Acq: 29 Jul 2025 11:26

Instrument :

MSVOA_L

ClientSampleId :

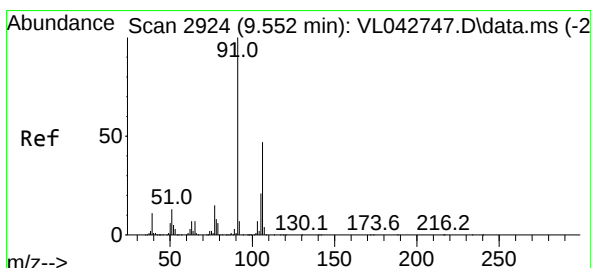
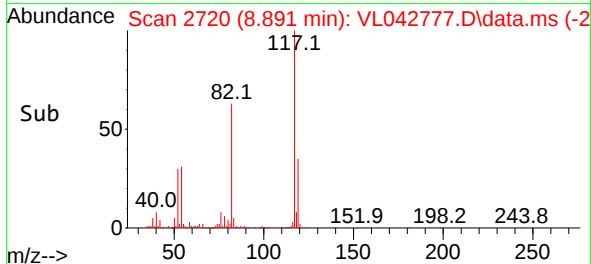
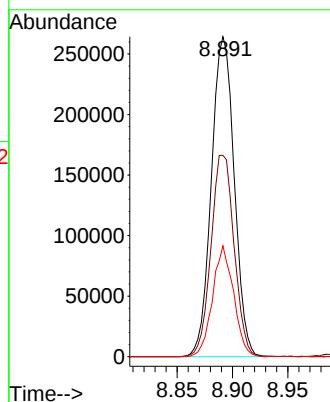
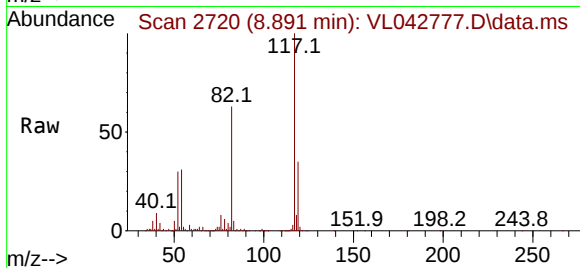
SV1DL

Tgt Ion:	117	Resp:	37961
Ion Ratio	Lower	Upper	
117	100		
82	63.8	53.3	79.9
119	32.0	25.8	38.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#59

m/p-Xylene

Concen: 0.112 ppbv m

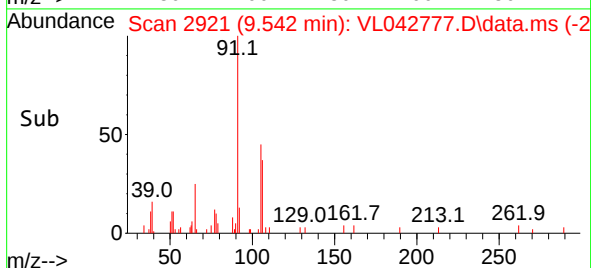
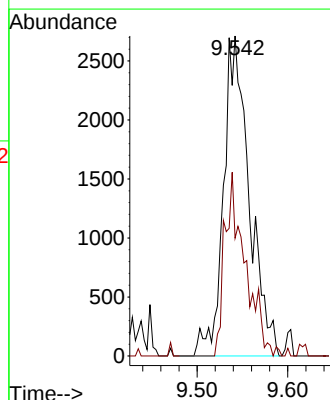
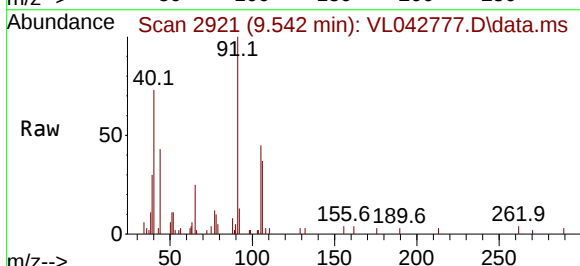
RT: 9.542 min Scan# 2921

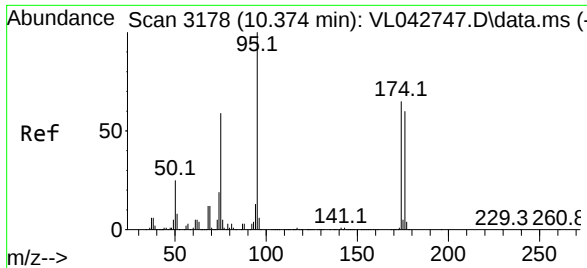
Delta R.T. -0.010 min

Lab File: VL042777.D

Acq: 29 Jul 2025 11:26

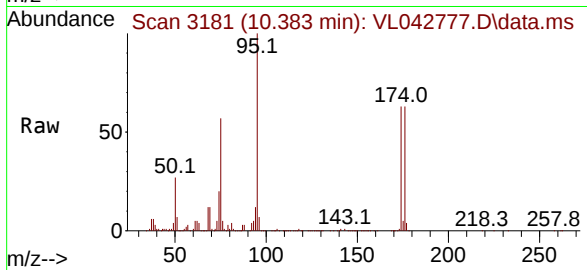
Tgt Ion:	91	Resp:	5374
Ion Ratio	Lower	Upper	
91	100		
106	0.0	37.4	56.2#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.210 ppbv
 RT: 10.383 min Scan# 31
 Delta R.T. 0.010 min
 Lab File: VL042777.D
 Acq: 29 Jul 2025 11:26

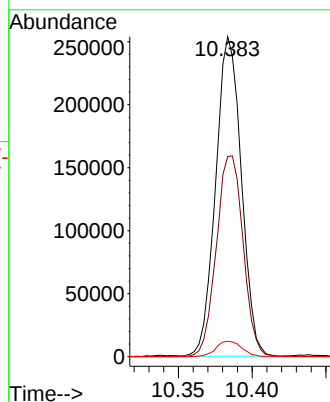
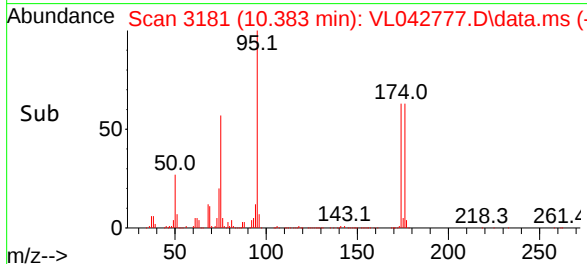
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL



Tgt Ion: 95 Resp: 306954
 Ion Ratio Lower Upper
 95 100
 174 65.6 53.8 80.6
 175 4.9 4.0 6.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	SV2	SDG No.:	Q2712
Lab Sample ID:	Q2712-02	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
VL042778.D	10		07/29/25 12:02	vl072925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	U	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	U	0.87	1.64	ug/m3
79-01-6	Trichloroethene	0.24	1.29	U	1.29	1.61	ug/m3
127-18-4	Tetrachloroethene	41.9	284		1.02	2.03	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	149000		2.793			
540-36-3	1,4-Difluorobenzene	410000		3.968			
3114-55-4	Chlorobenzene-d5	394000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042778.D
 Acq On : 29 Jul 2025 12:02
 Operator : SY/MD
 Sample : Q2712-02 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:09:32 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		2.793	49	149429	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		3.968	114	410248	10.000	ppbv	0.01
55) Chlorobenzene-d5		8.888	117	394368	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		10.383	95	314955	10.085	ppbv	0.00
Spiked Amount		10.000	Range 65 - 135		Recovery	= 100.800%	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		1.499	85	2929	0.148	ppbv	94
9) Propene		1.489	41	2624m	0.281	ppbv	
10) Heptane		4.991	43	13821m	0.548	ppbv	
11) Trichlorofluoromethane		1.884	101	4733	0.232	ppbv	98
13) Ethanol		1.725	45	95182	138.599	ppbv	88
15) Acetone		1.839	43	89139	4.320	ppbv	98
19) Isopropyl Alcohol		1.894	45	7506	0.685	ppbv #	1
26) Hexane		2.832	57	55756	2.783	ppbv #	60
29) Chloroform		2.855	83	2989	0.097	ppbv	93
34) 2-Butanone		2.567	43	13180	0.454	ppbv	96
52) Tetrachloroethene		8.237	164	67451	4.185	ppbv	96
53) Toluene		6.943	91	29236	0.700	ppbv	97
58) Ethyl Benzene		9.367	91	7527	0.121	ppbv	97
59) m/p-Xylene		9.538	91	35649m	0.716	ppbv	
60) o-Xylene		9.972	91	17420	0.350	ppbv	91
74) 1,2,4-Trimethylbenzene		11.542	105	6761	0.127	ppbv #	53

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

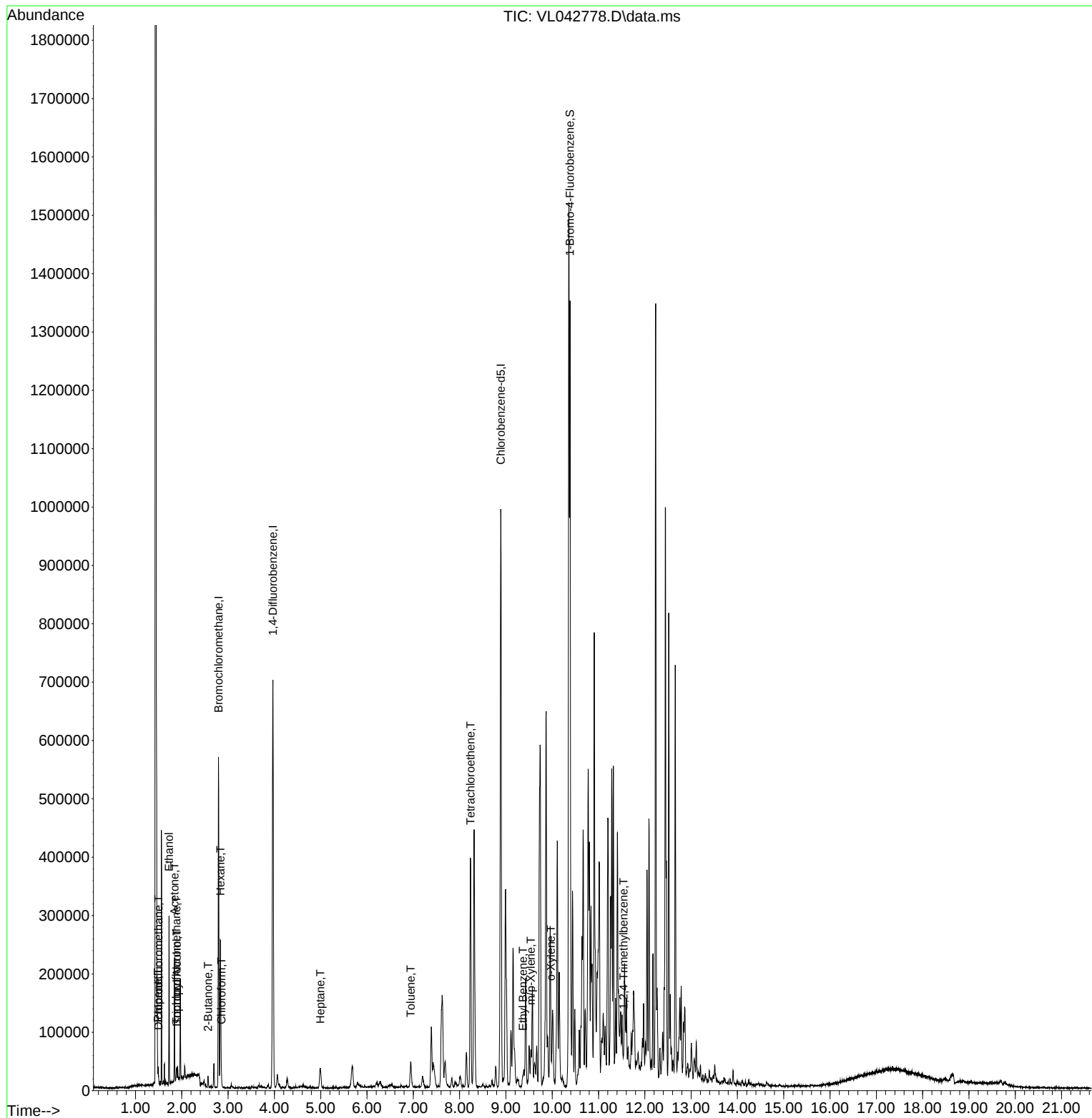
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042778.D
Acq On : 29 Jul 2025 12:02
Operator : SY/MD
Sample : Q2712-02 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

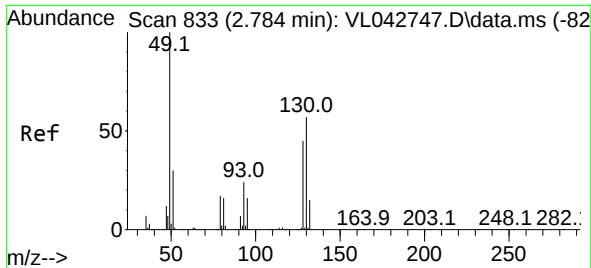
Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Jul 30 01:09:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Manual Integrations
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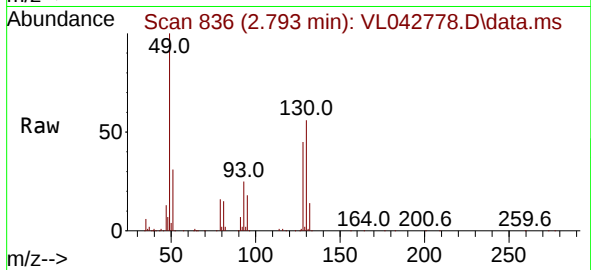
Reviewed By : Semsettin Yesilyurt 07/30/2025
Supervised By : Mahesh Dadoda 07/30/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

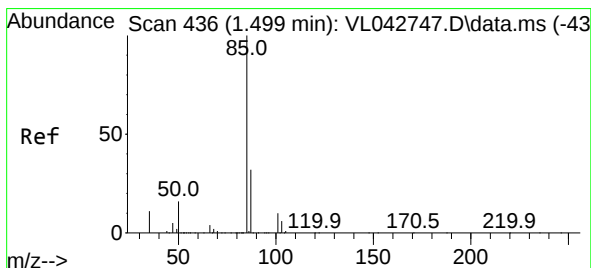
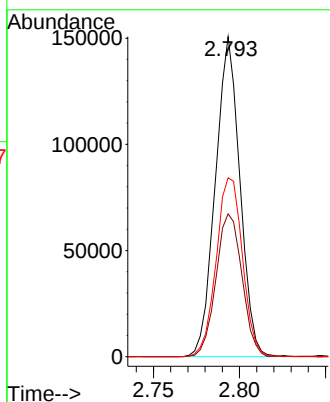
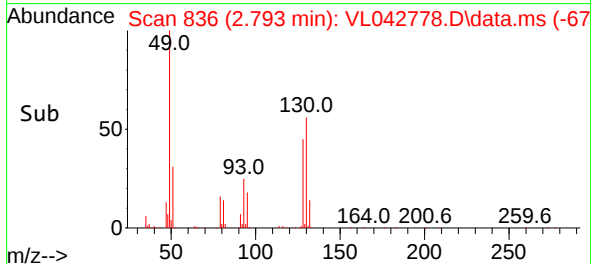
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 149429
Ion Ratio Lower Upper
49 100
128 47.4 23.6 71.0
130 59.8 30.3 90.8

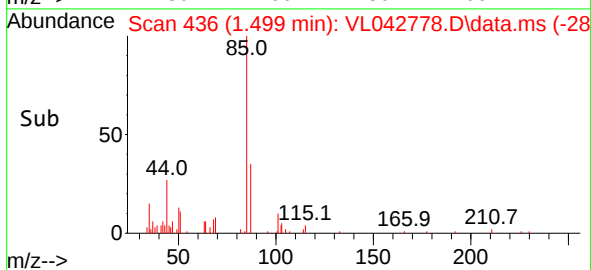
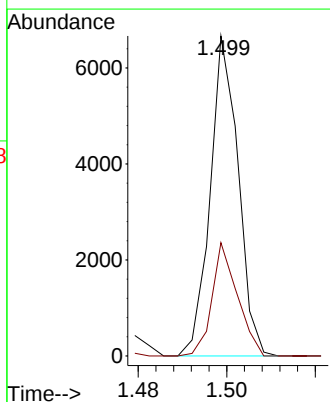
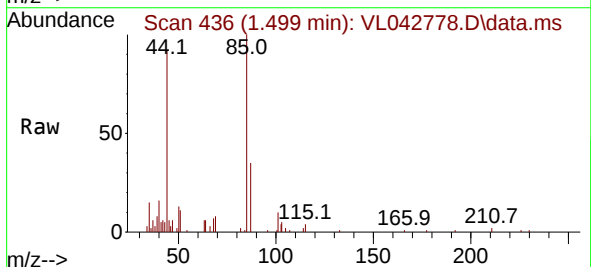
Manual Integrations
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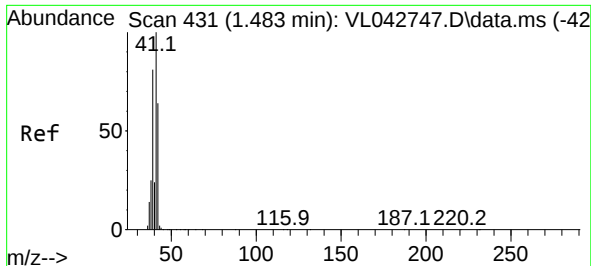
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.148 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

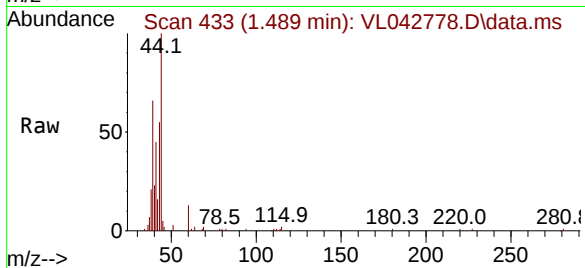
Tgt Ion: 85 Resp: 2929
Ion Ratio Lower Upper
85 100
87 35.4 25.4 38.2





#9
 Propene
 Concen: 0.281 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.006 min
 Lab File: VL042778.D
 Acq: 29 Jul 2025 12:02

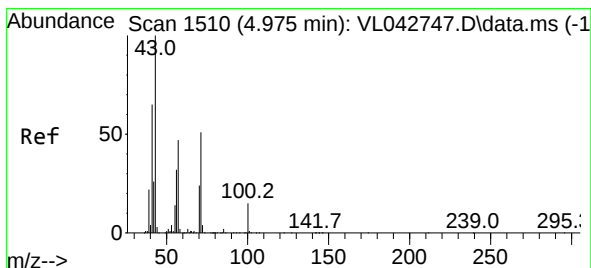
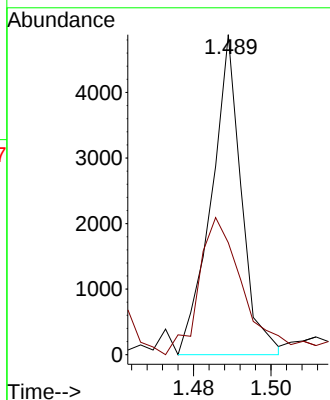
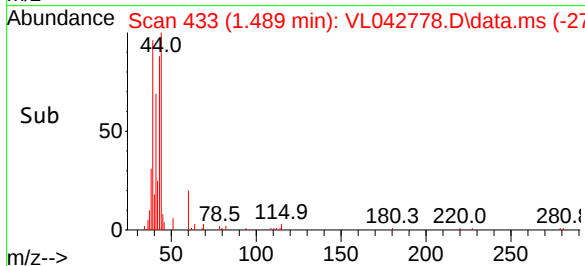
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2



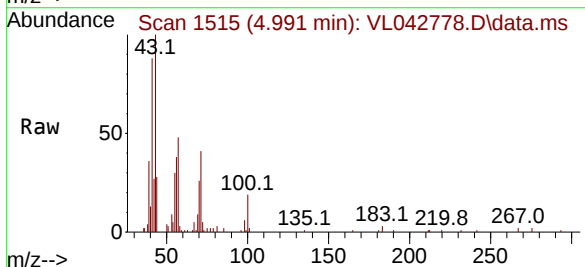
Tgt Ion: 41 Resp: 2624
 Ion Ratio Lower Upper
 41 100
 42 1216.7 53.2 79.8

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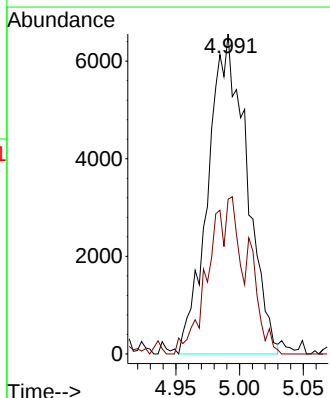
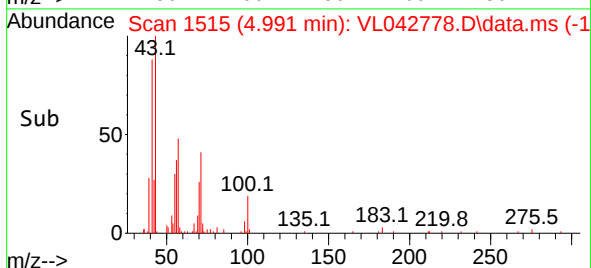
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

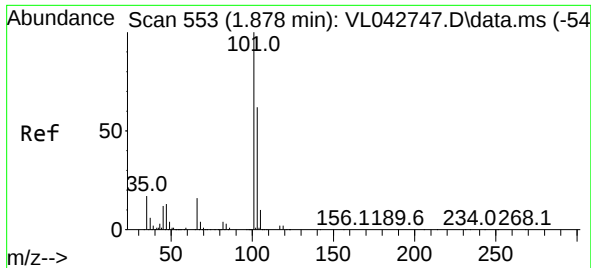


#10
 Heptane
 Concen: 0.548 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.016 min
 Lab File: VL042778.D
 Acq: 29 Jul 2025 12:02



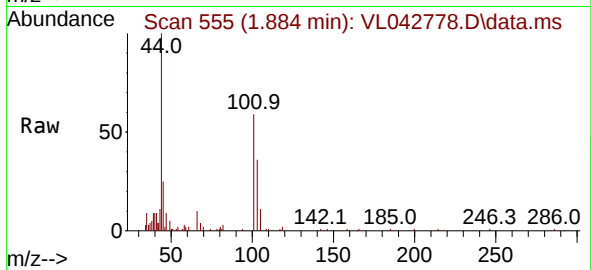
Tgt Ion: 43 Resp: 13821
 Ion Ratio Lower Upper
 43 100
 57 51.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.232 ppbv
RT: 1.884 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

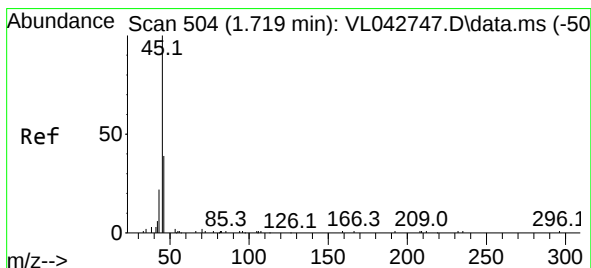
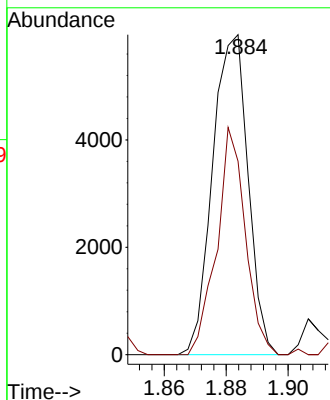
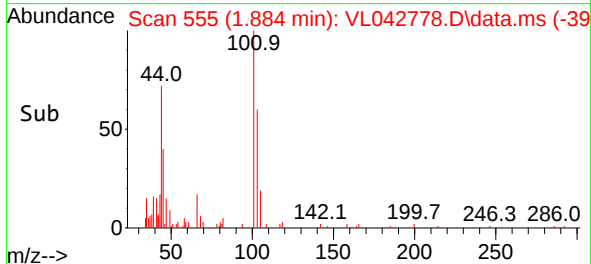
Instrument :
MSVOA_L
ClientSampleId :
SV2



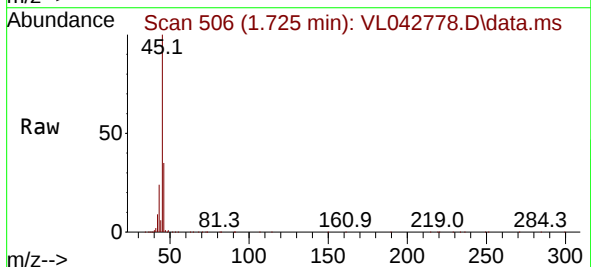
Tgt Ion:101 Resp: 473
Ion Ratio Lower Upper
101 100
103 60.5 49.6 74.4

Manual Integrations
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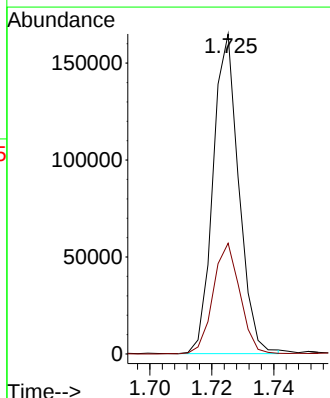
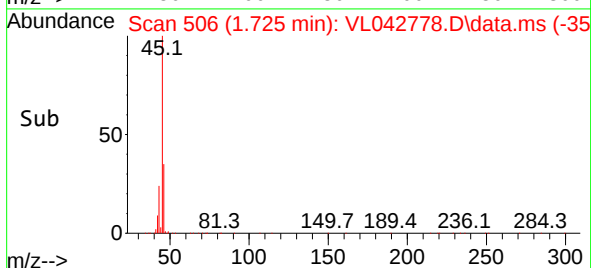
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

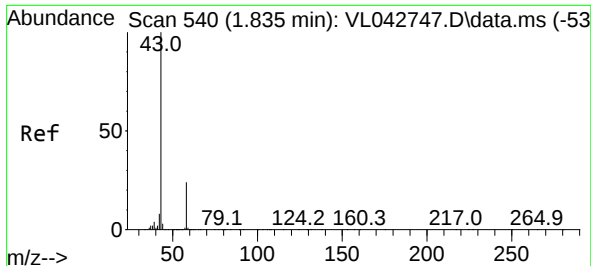


#13
Ethanol
Concen: 138.599 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02



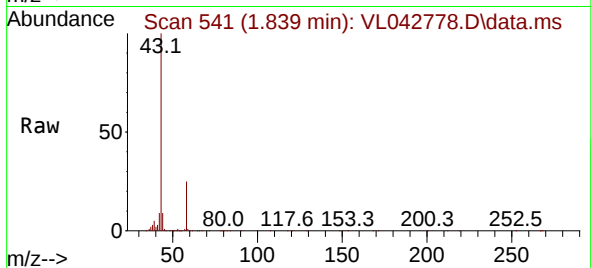
Tgt Ion: 45 Resp: 95182
Ion Ratio Lower Upper
45 100
46 36.8 17.8 71.4





#15
Acetone
Concen: 4.320 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

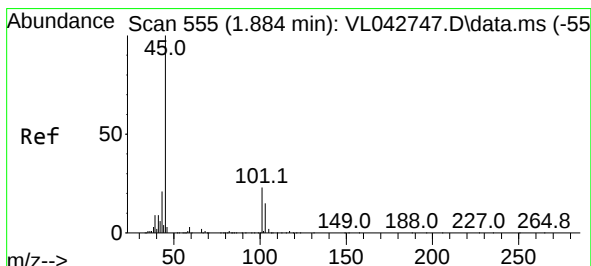
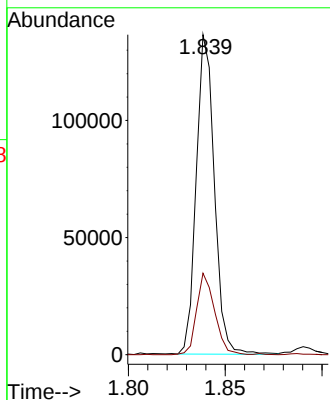
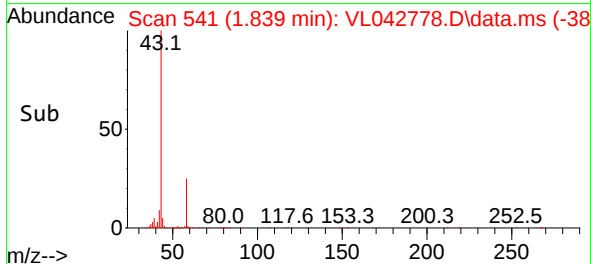
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 89139
Ion Ratio Lower Upper
43 100
58 25.6 19.8 29.8

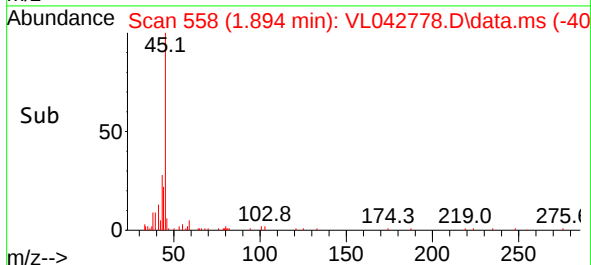
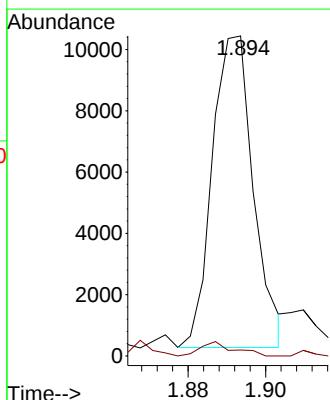
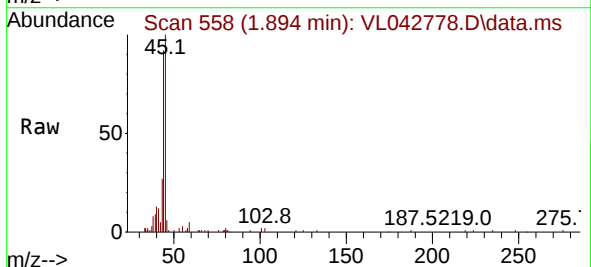
Manual Integrations
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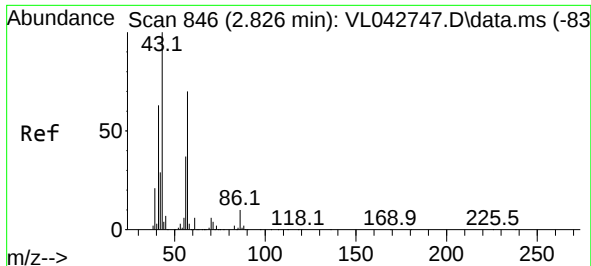
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#19
Isopropyl Alcohol
Concen: 0.685 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.010 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

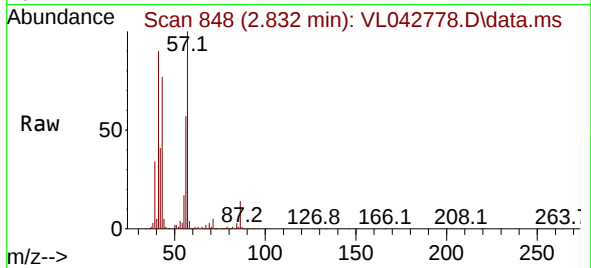
Tgt Ion: 45 Resp: 7506
Ion Ratio Lower Upper
45 100
58 303.4 30.0 45.0#





#26
Hexane
Concen: 2.783 ppbv
RT: 2.832 min Scan# 846
Delta R.T. 0.006 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

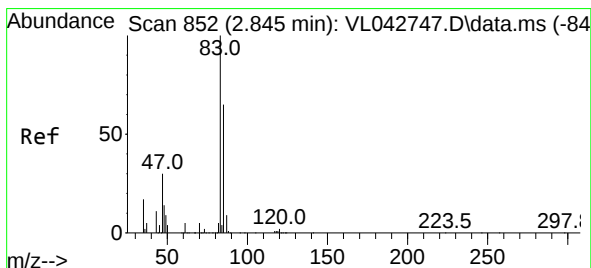
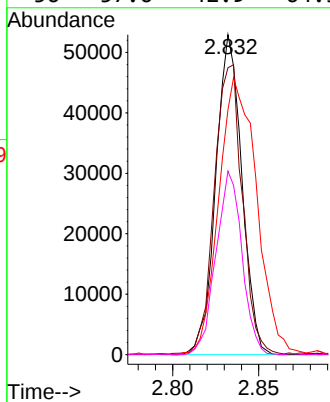
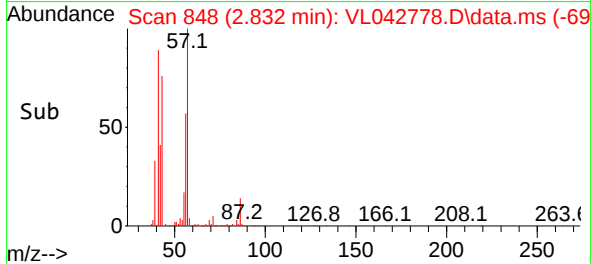
Instrument :
MSVOA_L
ClientSampleId :
SV2



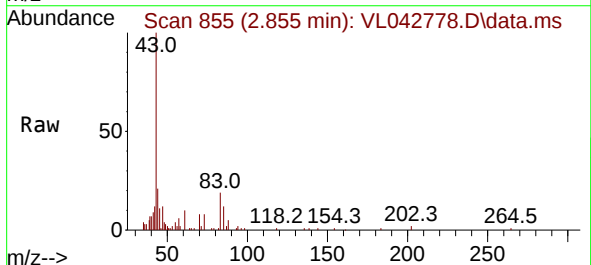
Tgt Ion: 57 Resp: 55750
Ion Ratio Lower Upper
57 100
41 97.8 75.4 113.2
43 126.4 185.0 277.6
56 57.6 42.9 64.3

Manual Integrations
APPROVED

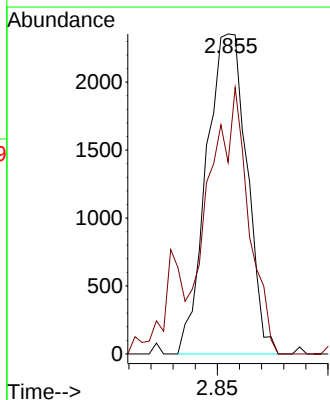
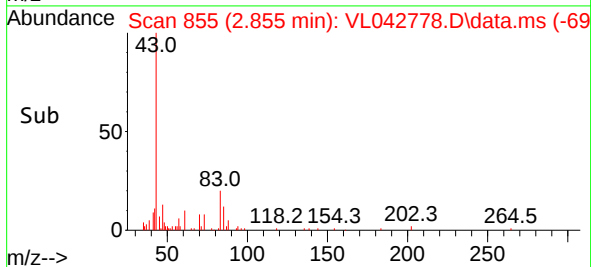
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

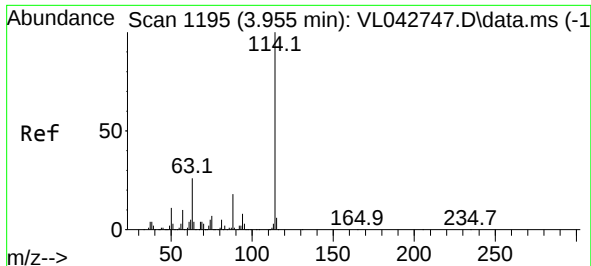


#29
Chloroform
Concen: 0.097 ppbv
RT: 2.855 min Scan# 855
Delta R.T. 0.010 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02



Tgt Ion: 83 Resp: 2989
Ion Ratio Lower Upper
83 100
85 59.9 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.013 min

Lab File: VL042778.D

Acq: 29 Jul 2025 12:02

Instrument :

MSVOA_L

ClientSampleId :

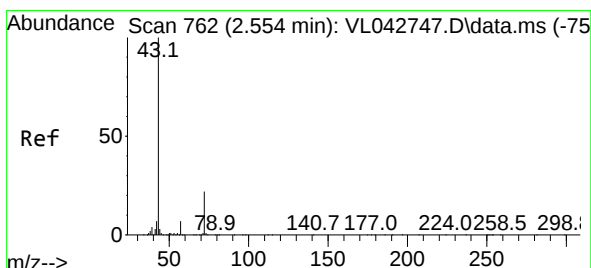
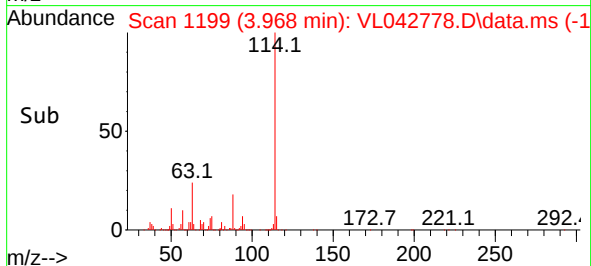
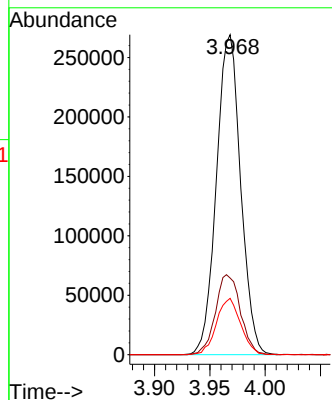
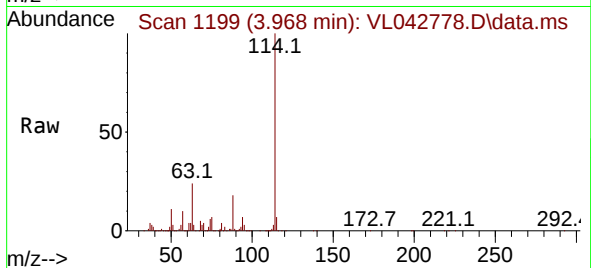
SV2

Tgt Ion:114 Resp: 410248
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.5 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#34

2-Butanone

Concen: 0.454 ppbv

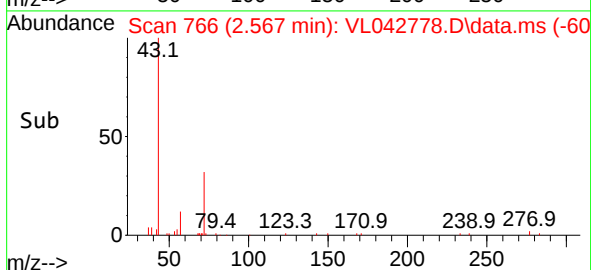
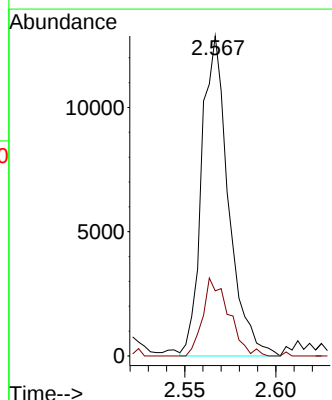
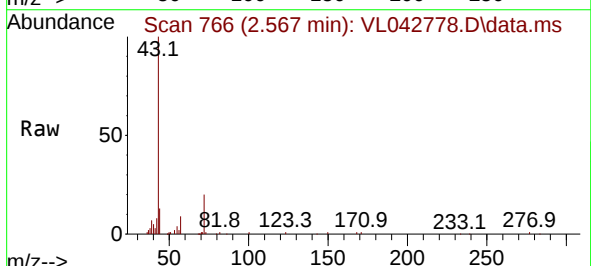
RT: 2.567 min Scan# 766

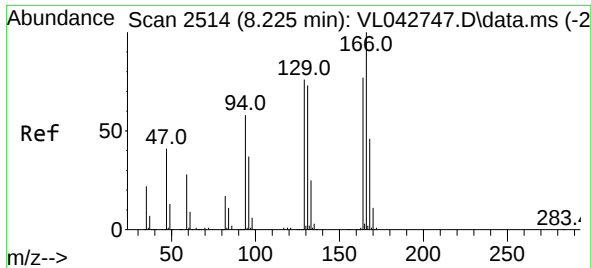
Delta R.T. 0.013 min

Lab File: VL042778.D

Acq: 29 Jul 2025 12:02

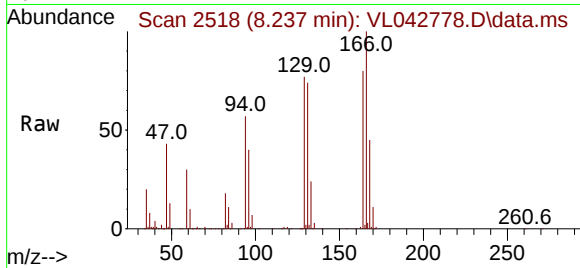
Tgt Ion: 43 Resp: 13180
 Ion Ratio Lower Upper
 43 100
 72 23.7 17.4 26.0





#52
Tetrachloroethene
Concen: 4.185 ppbv
RT: 8.237 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

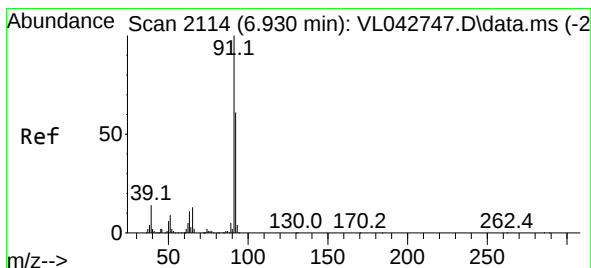
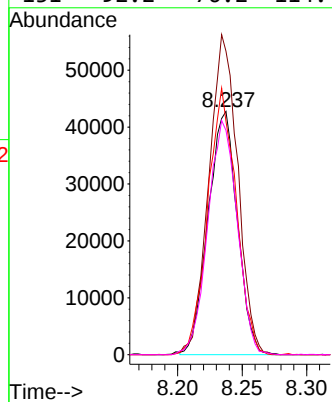
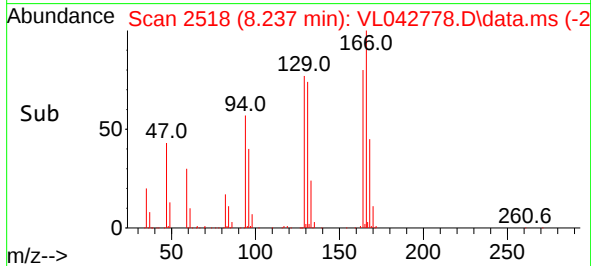
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 6745
Ion Ratio Lower Upper
164 100
166 124.8 104.0 156.0
129 96.1 79.2 118.8
131 92.2 76.2 114.4

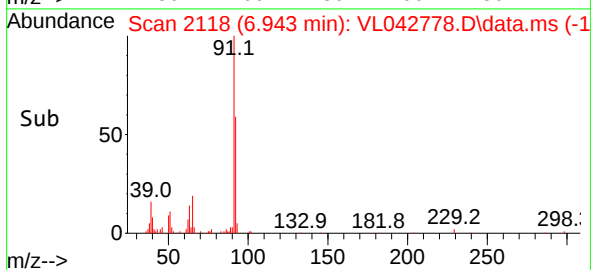
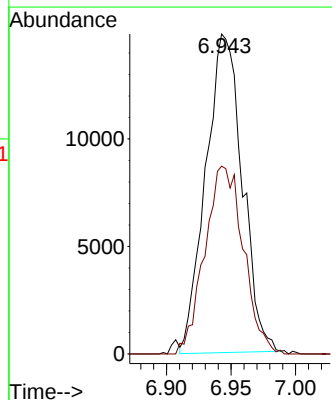
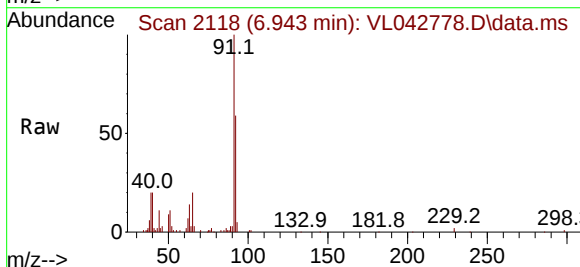
Manual Integrations
APPROVED

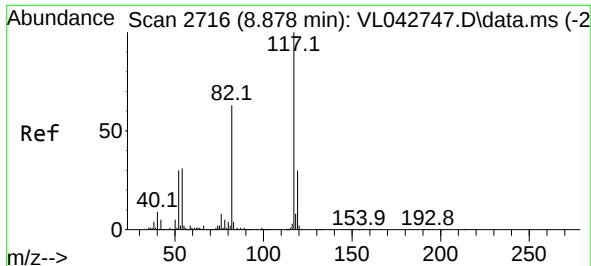
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 0.700 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

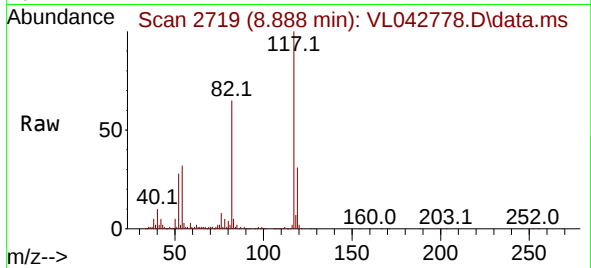
Tgt Ion: 91 Resp: 29236
Ion Ratio Lower Upper
91 100
92 62.2 48.0 72.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

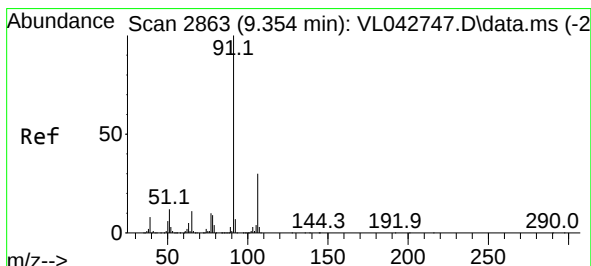
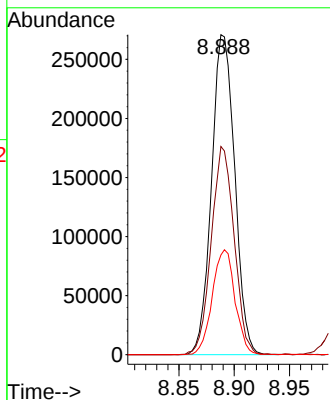
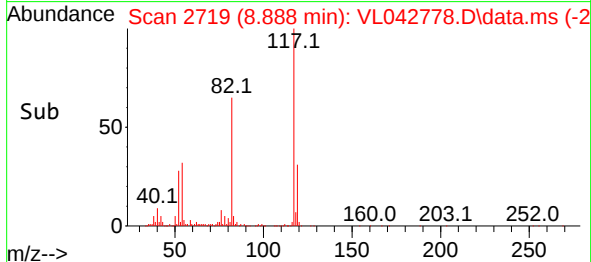
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 117 Resp: 394368
Ion Ratio Lower Upper
117 100
82 64.4 53.3 79.9
119 32.4 25.8 38.6

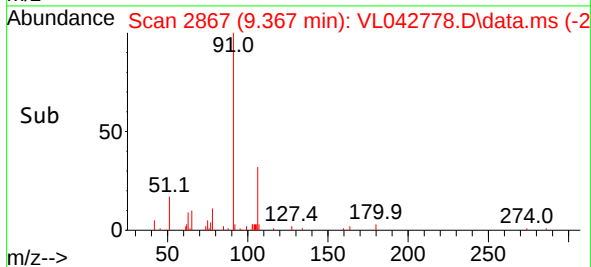
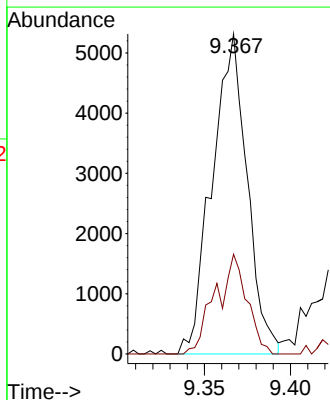
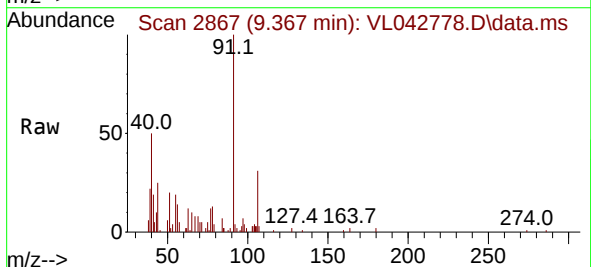
Manual Integrations
APPROVED

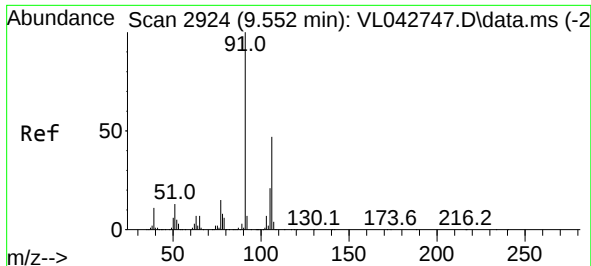
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#58
Ethyl Benzene
Concen: 0.121 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.013 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

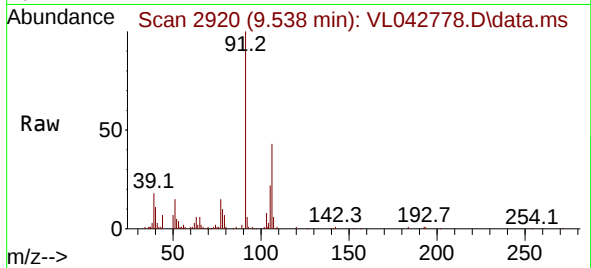
Tgt Ion: 91 Resp: 7527
Ion Ratio Lower Upper
91 100
106 31.2 23.8 35.6





#59
m/p-Xylene
Concen: 0.716 ppbv m
RT: 9.538 min Scan# 2924
Delta R.T. -0.013 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

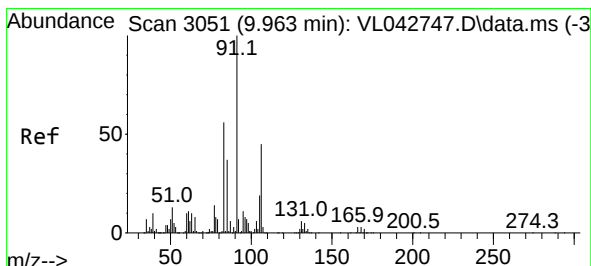
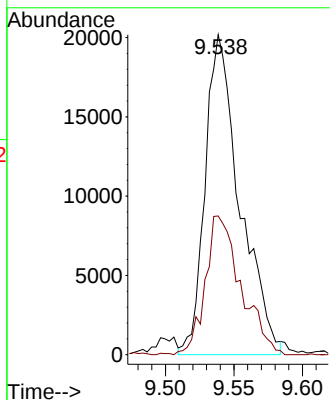
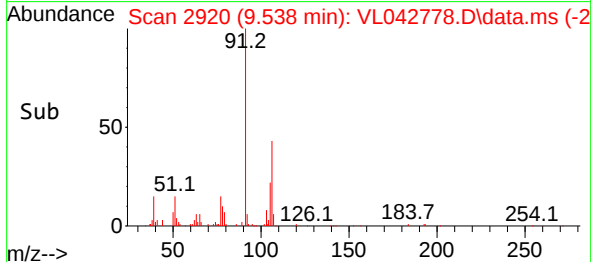
Instrument :
MSVOA_L
ClientSampleId :
SV2



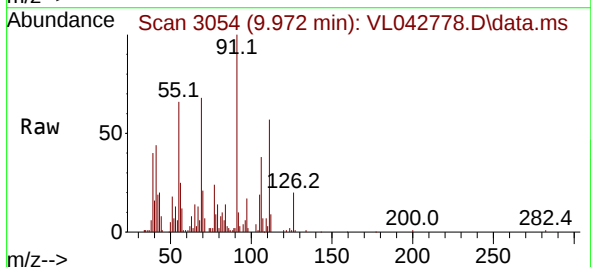
Tgt Ion: 91 Resp: 35649
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

Manual Integrations
APPROVED

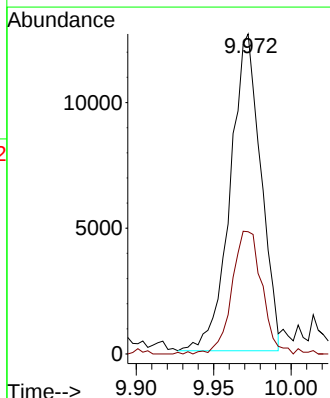
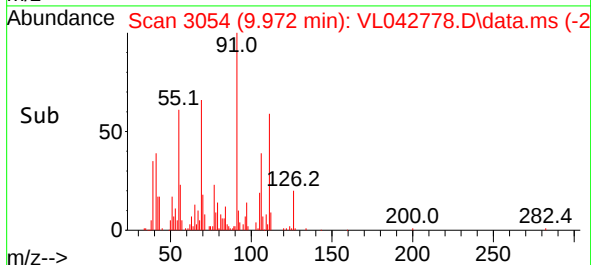
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

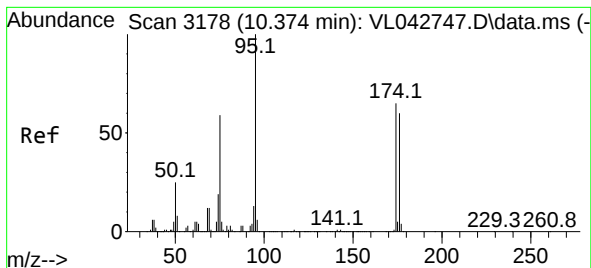


#60
o-Xylene
Concen: 0.350 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02



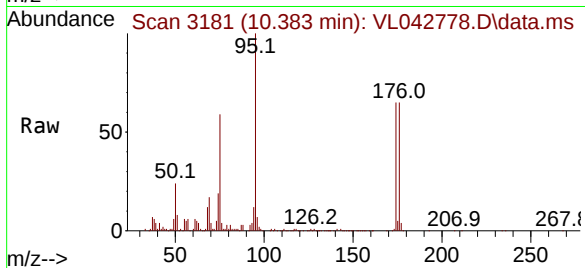
Tgt Ion: 91 Resp: 17420
Ion Ratio Lower Upper
91 100
106 38.2 22.0 66.0





#68
1-Bromo-4-Fluorobenzene
Concen: 10.085 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02

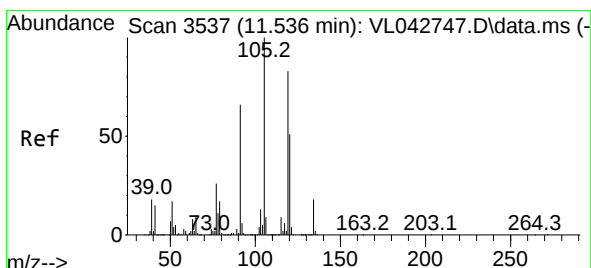
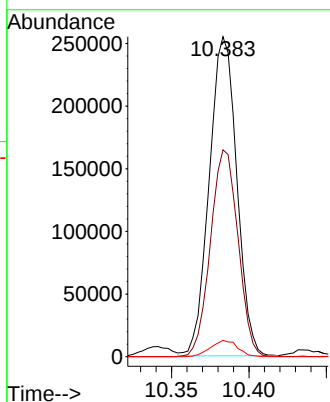
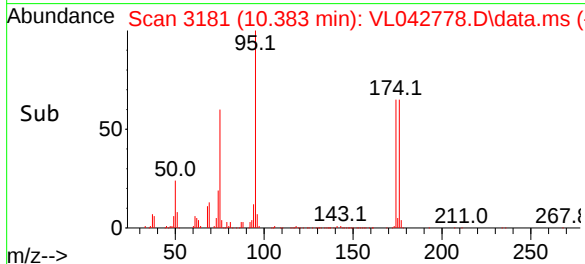
Instrument :
MSVOA_L
ClientSampleId :
SV2



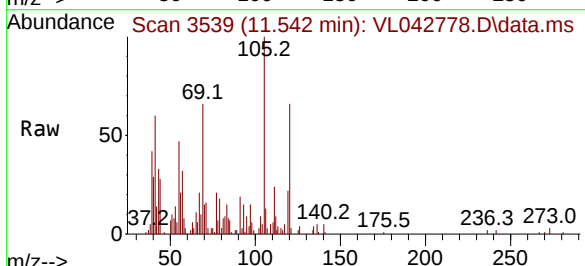
Tgt Ion: 95 Resp: 31495
Ion Ratio Lower Upper
95 100
174 64.9 53.8 80.6
175 5.0 4.0 6.0

Manual Integrations
APPROVED

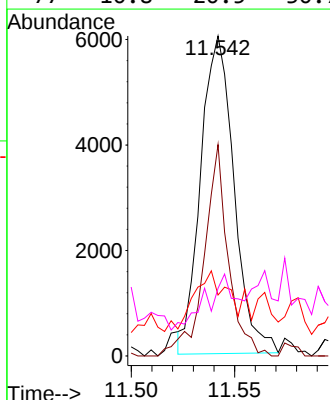
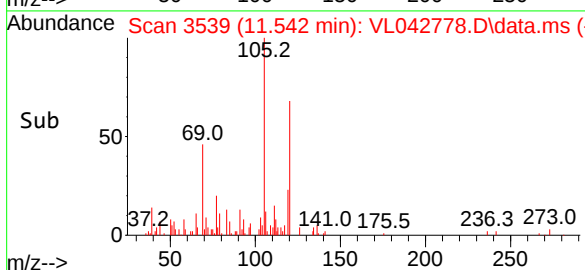
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.127 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042778.D
Acq: 29 Jul 2025 12:02



Tgt Ion:105 Resp: 6761
Ion Ratio Lower Upper
105 100
120 69.6 40.8 61.2#
91 10.7 53.0 79.4#
77 10.8 20.5 30.7#



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	SV3	SDG No.:	Q2712
Lab Sample ID:	Q2712-03	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
VL042780.D	10		07/29/25 13:13	vl072925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	U	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	U	0.87	1.64	ug/m3
79-01-6	Trichloroethene	0.44	2.36		1.29	1.61	ug/m3
127-18-4	Tetrachloroethene	62.8	426		1.02	2.03	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	150000		2.79			
540-36-3	1,4-Difluorobenzene	397000		3.965			
3114-55-4	Chlorobenzene-d5	392000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042780.D
 Acq On : 29 Jul 2025 13:13
 Operator : SY/MD
 Sample : Q2712-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:10:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	149648	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	397221	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	391610	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	307367	9.911	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.100%
Target Compounds						
					Qvalue	
10) Heptane	4.991	43	44714	1.770	ppbv	98
11) Trichlorofluoromethane	1.878	101	13031	0.639	ppbv	95
13) Ethanol	1.722	45	12033	16.490	ppbv #	31
15) Acetone	1.839	43	248629	12.032	ppbv	100
19) Isopropyl Alcohol	1.891	45	8436m	0.768	ppbv	
26) Hexane	2.829	57	136934	6.825	ppbv #	41
29) Chloroform	2.852	83	44204	1.426	ppbv	91
34) 2-Butanone	2.564	43	14645	0.520	ppbv	98
36) Benzene	3.658	78	5133m	0.136	ppbv	
38) Trichloroethene	4.558	130	793m	0.044	ppbv	
41) Tetrahydrofuran	3.072	42	2839	0.198	ppbv	95
51) 2-Hexanone	7.438	43	88180	3.219	ppbv #	58
52) Tetrachloroethene	8.234	164	98048	6.283	ppbv	97
53) Toluene	6.943	91	75371	1.864	ppbv	99
58) Ethyl Benzene	9.361	91	25341	0.410	ppbv	98
59) m/p-Xylene	9.542	91	142931m	2.892	ppbv	
60) o-Xylene	9.972	91	51884	1.051	ppbv	96
62) Isopropylbenzene	10.545	105	15964	0.219	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	24049	0.454	ppbv #	61

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

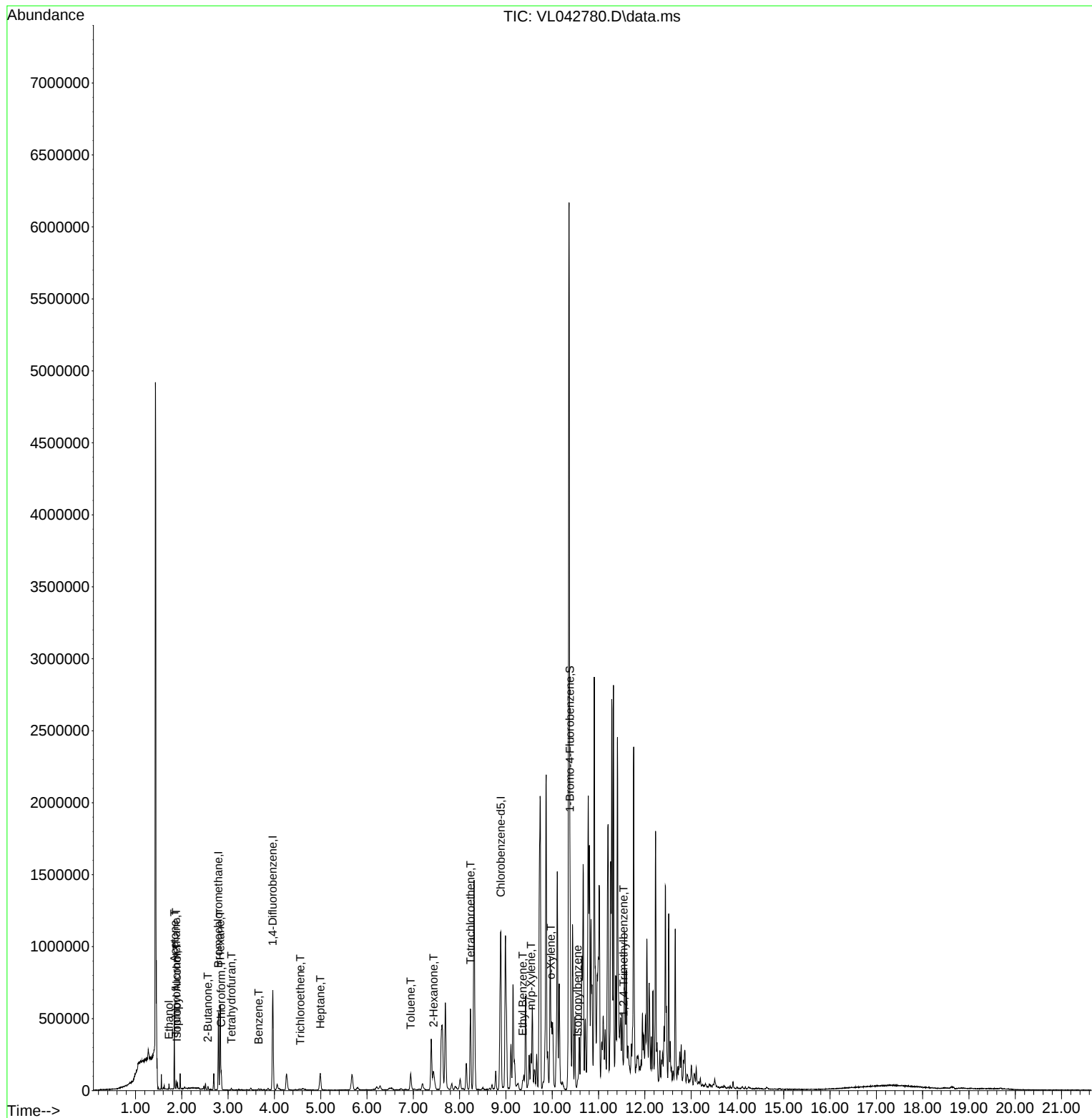
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042780.D
Acq On : 29 Jul 2025 13:13
Operator : SY/MD
Sample : Q2712-03 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

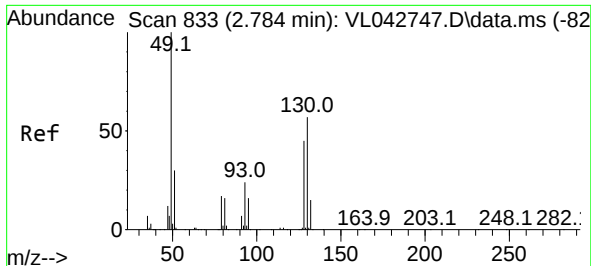
Instrument :
MSVOA_L
ClientSampleId :
SV3

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
Supervised By : Mahesh Dadoda 07/30/2025

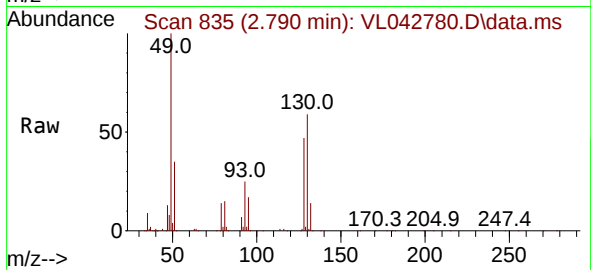
Quant Time: Jul 30 01:10:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

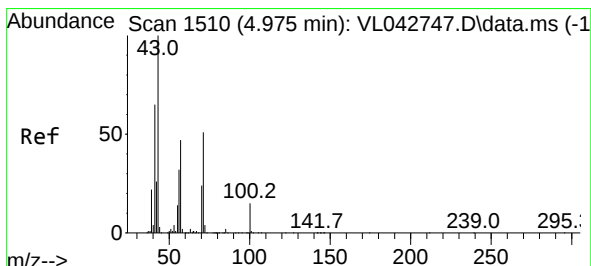
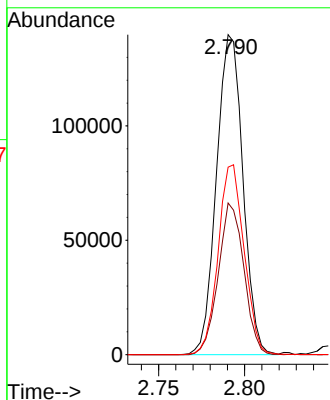
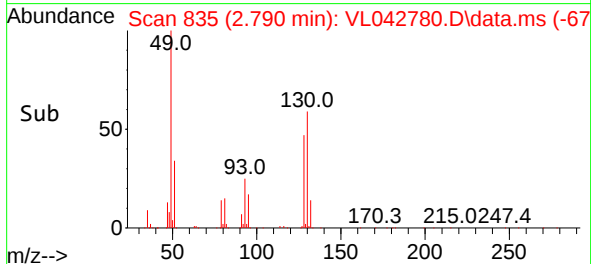
Instrument :
MSVOA_L
ClientSampleId :
SV3



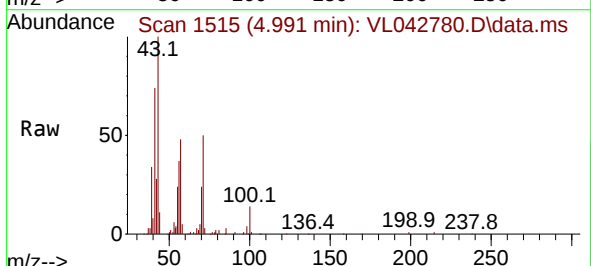
Tgt Ion: 49 Resp: 149648
Ion Ratio Lower Upper
49 100
128 45.8 23.6 71.0
130 58.5 30.3 90.8

Manual Integrations
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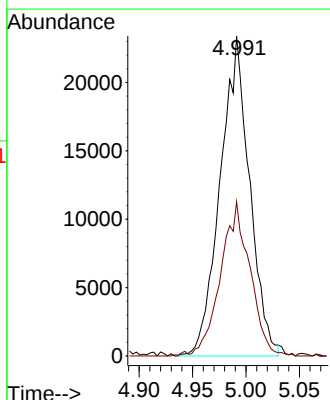
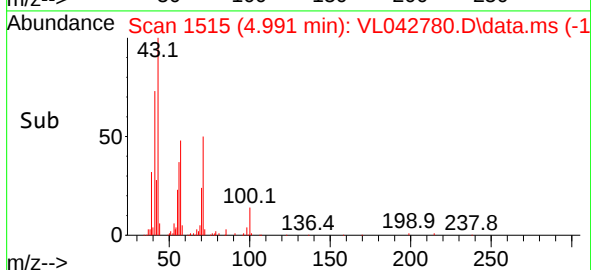
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

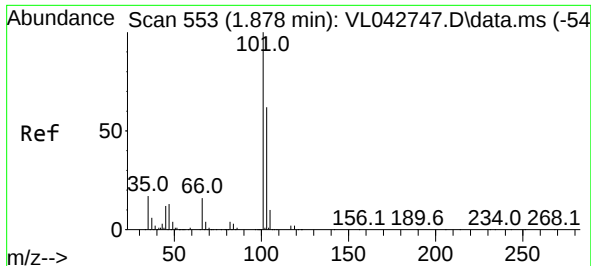


#10
Heptane
Concen: 1.770 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.016 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13



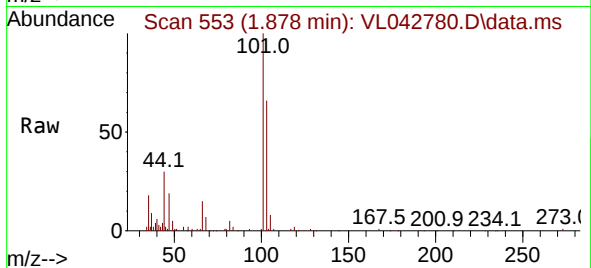
Tgt Ion: 43 Resp: 44714
Ion Ratio Lower Upper
43 100
57 48.4 39.9 59.9





#11
Trichlorofluoromethane
Concen: 0.639 ppbv
RT: 1.878 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

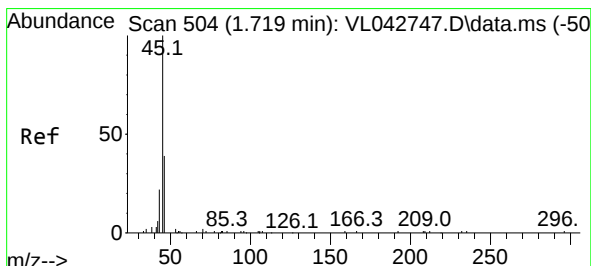
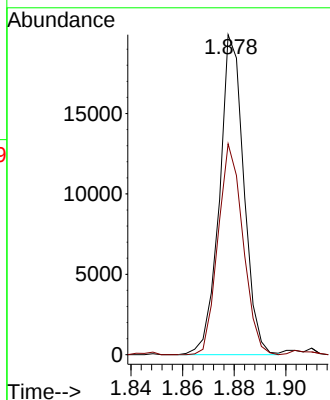
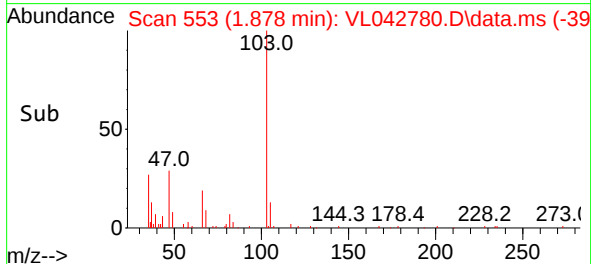
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:101 Resp: 1303
Ion Ratio Lower Upper
101 100
103 65.9 49.6 74.4

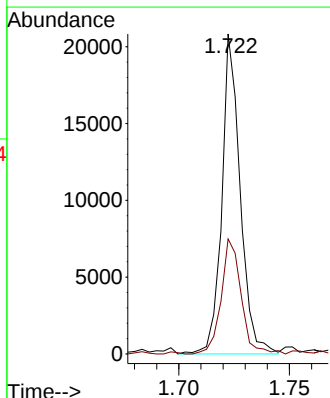
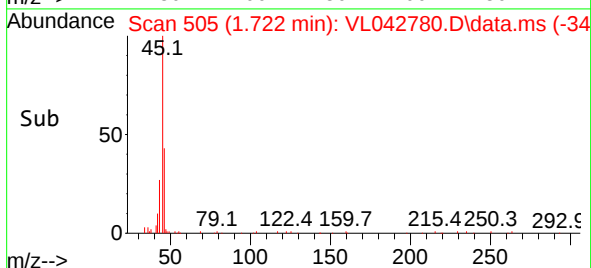
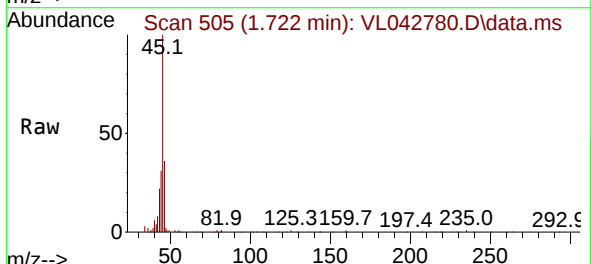
Manual Integrations
APPROVED

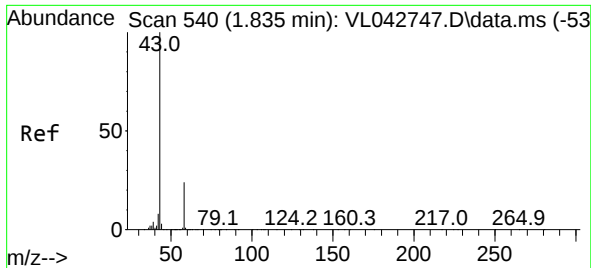
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#13
Ethanol
Concen: 16.490 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

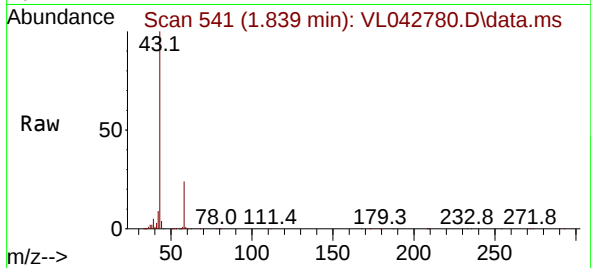
Tgt Ion: 45 Resp: 12033
Ion Ratio Lower Upper
45 100
46 0.0 17.8 71.4#





#15
Acetone
Concen: 12.032 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

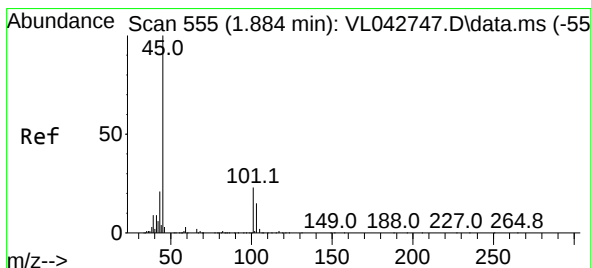
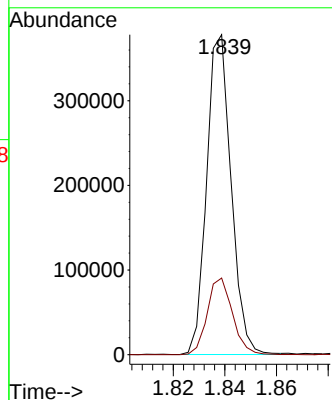
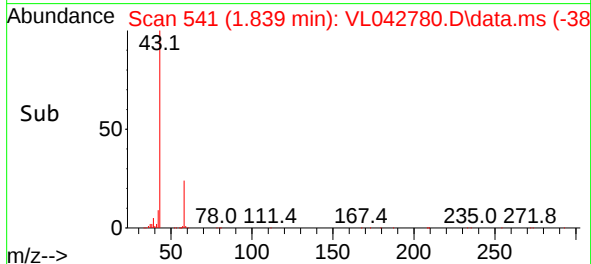
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 43 Resp: 248629
Ion Ratio Lower Upper
43 100
58 24.7 19.8 29.8

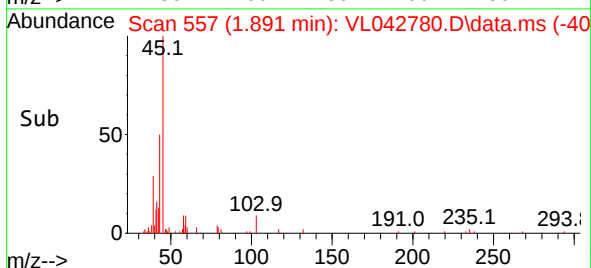
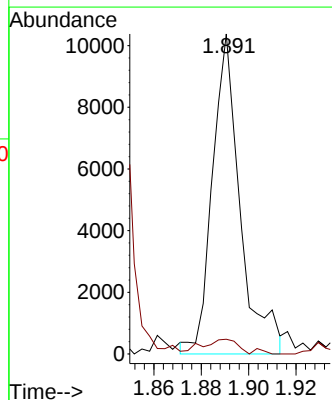
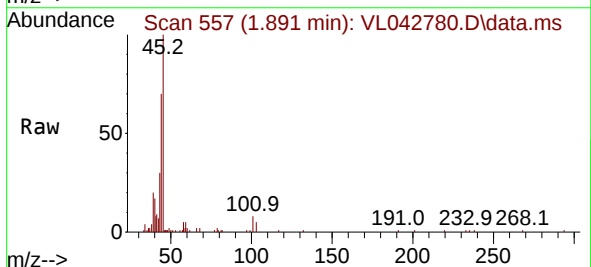
Manual Integrations
APPROVED

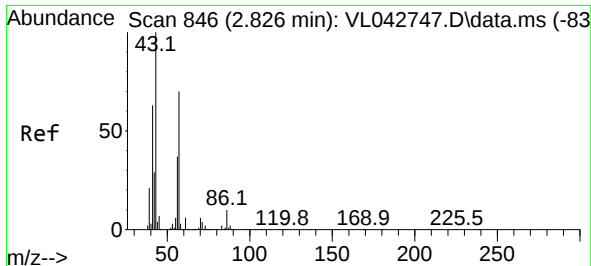
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#19
Isopropyl Alcohol
Concen: 0.768 ppbv m
RT: 1.891 min Scan# 557
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

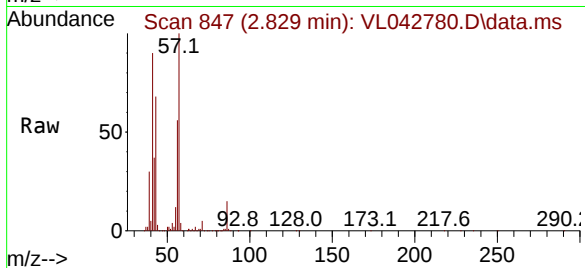
Tgt Ion: 45 Resp: 8436
Ion Ratio Lower Upper
45 100
58 0.0 30.0 45.0#





#26
Hexane
Concen: 6.825 ppbv
RT: 2.829 min Scan# 846
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

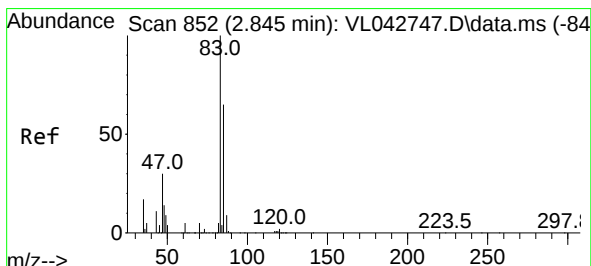
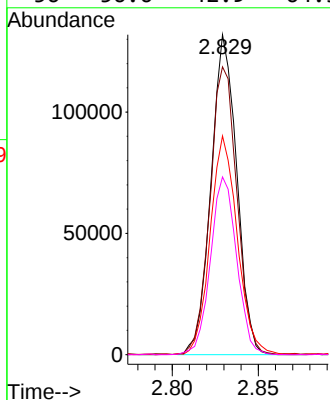
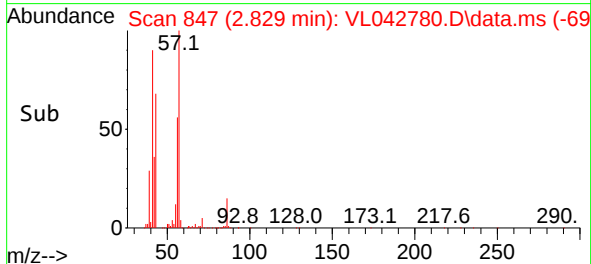
Instrument :
MSVOA_L
ClientSampleId :
SV3



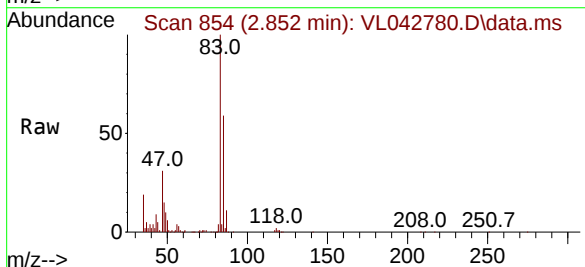
Tgt Ion: 57 Resp: 136934
Ion Ratio Lower Upper
57 100
41 95.2 75.4 113.2
43 72.8 185.0 277.6
56 56.6 42.9 64.3

Manual Integrations
APPROVED

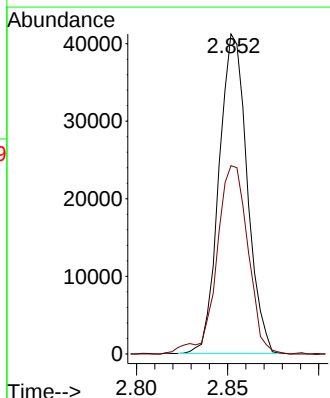
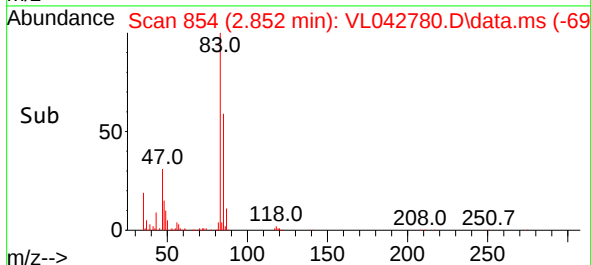
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

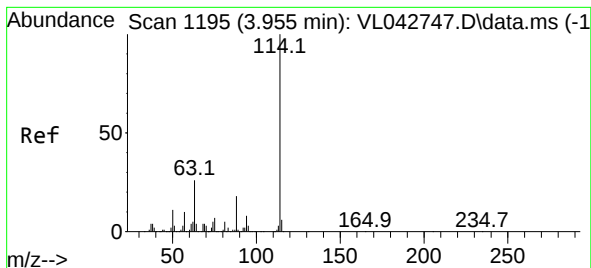


#29
Chloroform
Concen: 1.426 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13



Tgt Ion: 83 Resp: 44204
Ion Ratio Lower Upper
83 100
85 58.3 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1195

Delta R.T. 0.010 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

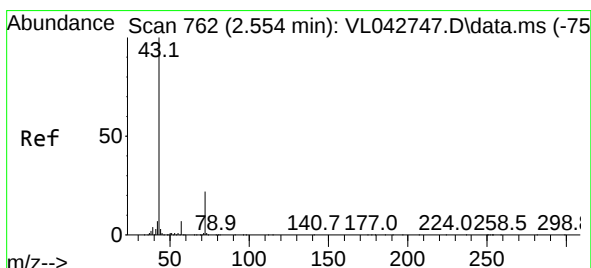
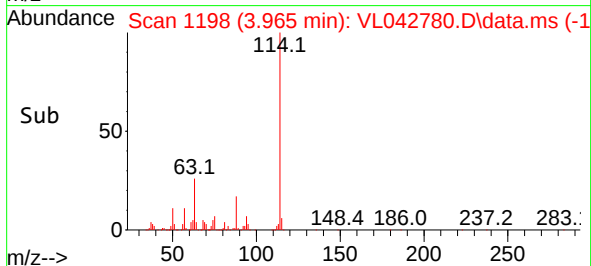
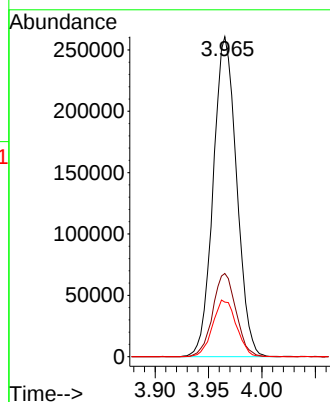
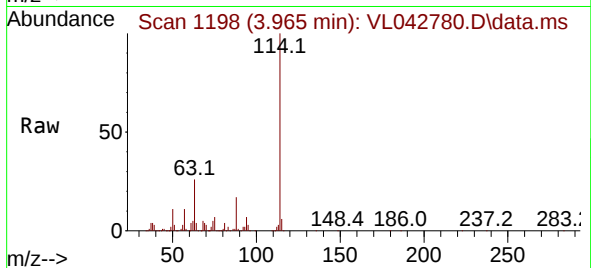
SV3

Tgt Ion:114 Resp: 39722
 Ion Ratio Lower Upper
 114 100
 63 26.0 20.5 30.7
 88 18.0 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#34

2-Butanone

Concen: 0.520 ppbv

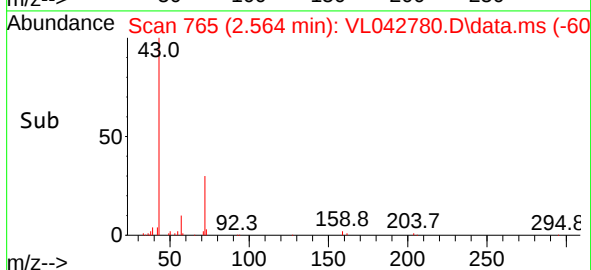
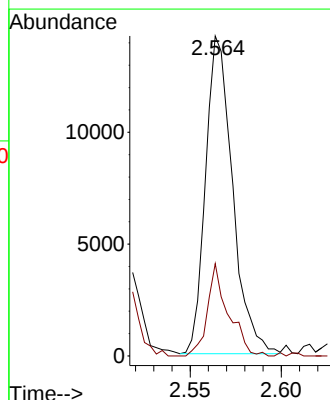
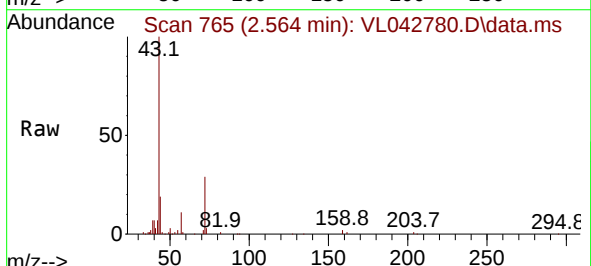
RT: 2.564 min Scan# 765

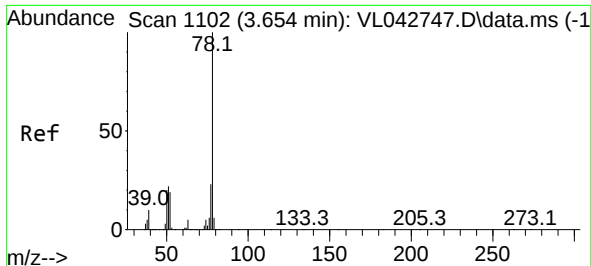
Delta R.T. 0.010 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

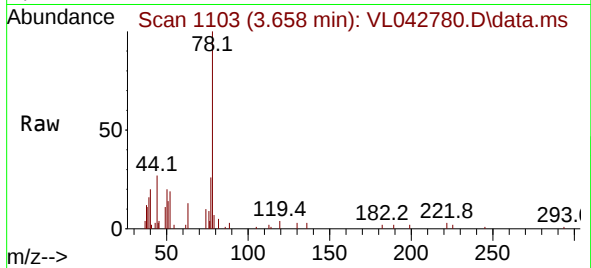
Tgt Ion: 43 Resp: 14645
 Ion Ratio Lower Upper
 43 100
 72 22.7 17.4 26.0





#36
Benzene
Concen: 0.136 ppbv m
RT: 3.658 min Scan# 1103
Delta R.T. 0.003 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

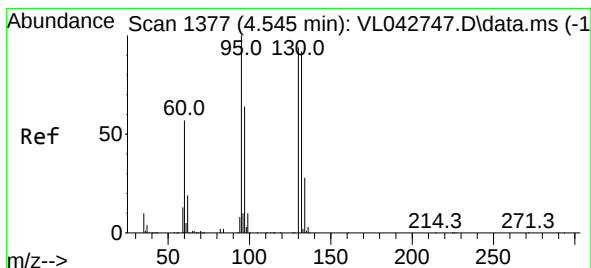
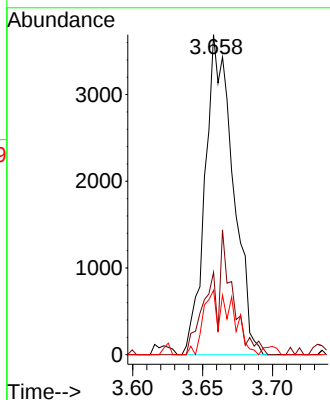
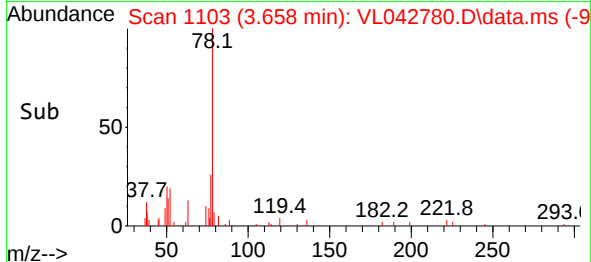
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 78 Resp: 513
Ion Ratio Lower Upper
78 100
77 25.8 18.5 27.7
50 20.1 16.2 24.2

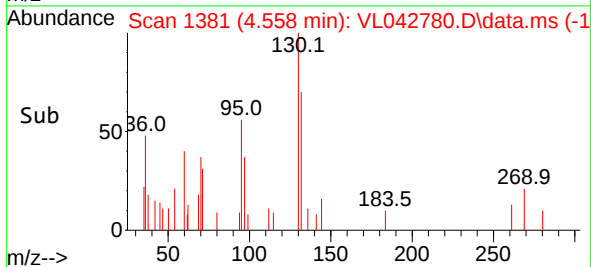
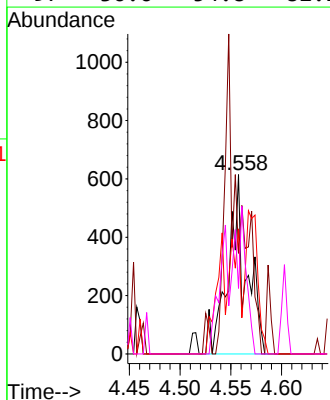
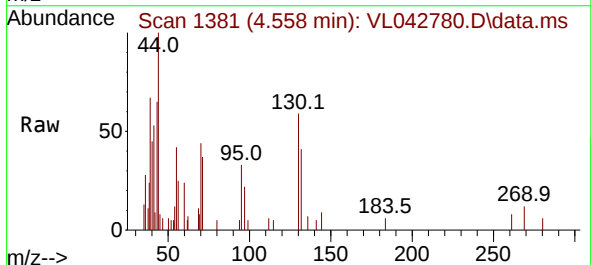
Manual Integrations
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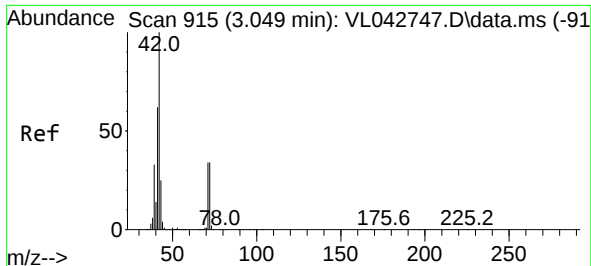
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 4.558 min Scan# 1381
Delta R.T. 0.013 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

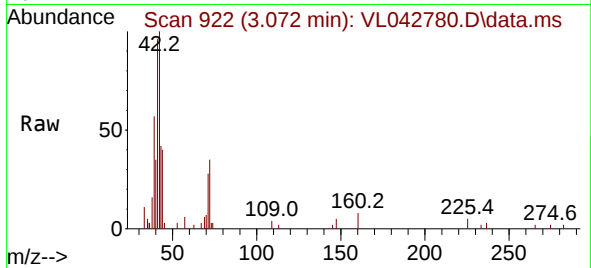
Tgt Ion:130 Resp: 793
Ion Ratio Lower Upper
130 100
95 56.1 85.4 128.2#
132 69.8 78.2 117.2#
97 36.6 54.8 82.2#





#41
Tetrahydrofuran
Concen: 0.198 ppbv
RT: 3.072 min Scan# 915
Delta R.T. 0.023 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

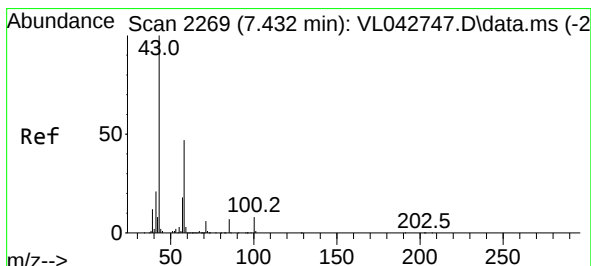
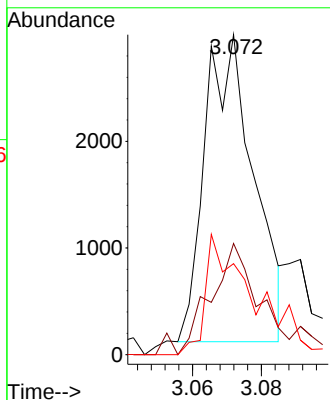
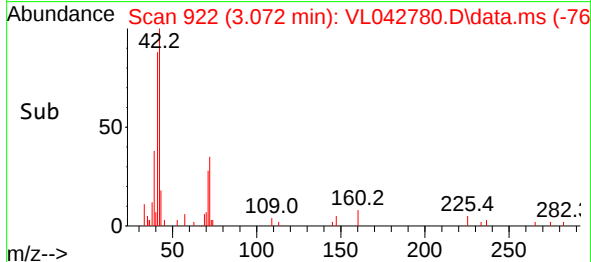
Instrument :
MSVOA_L
ClientSampleId :
SV3



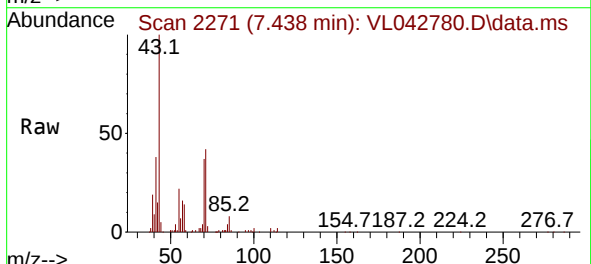
Tgt Ion: 42 Resp: 2839
Ion Ratio Lower Upper
42 100
72 39.8 30.9 46.3
71 40.2 28.6 43.0

Manual Integrations
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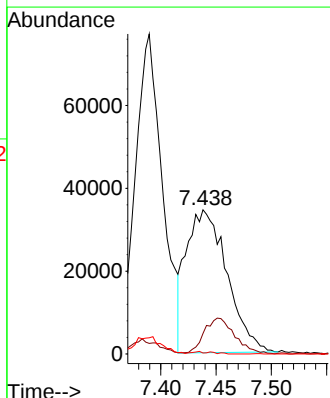
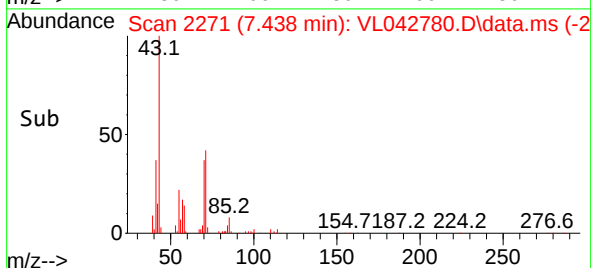
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

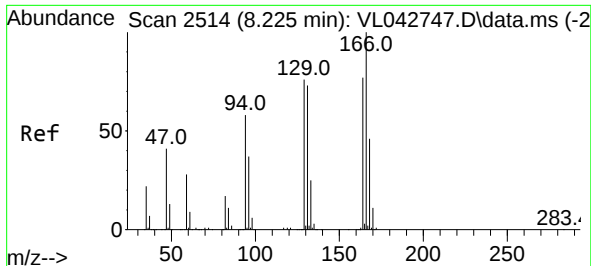


#51
2-Hexanone
Concen: 3.219 ppbv
RT: 7.438 min Scan# 2271
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13



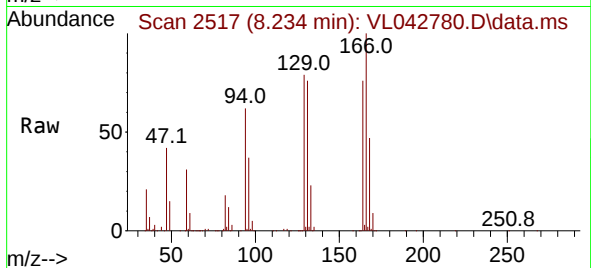
Tgt Ion: 43 Resp: 88180
Ion Ratio Lower Upper
43 100
58 19.4 38.0 57.0#
98 0.8 0.2 0.4#





#52
Tetrachloroethene
Concen: 6.283 ppbv
RT: 8.234 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

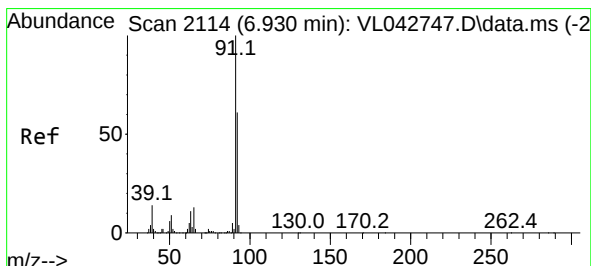
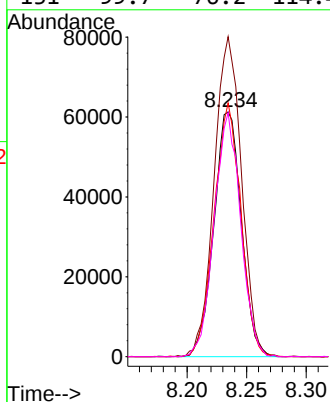
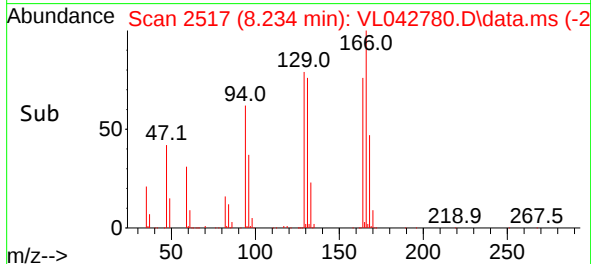
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:164 Resp: 98048
Ion Ratio Lower Upper
164 100
166 130.5 104.0 156.0
129 103.6 79.2 118.8
131 99.7 76.2 114.4

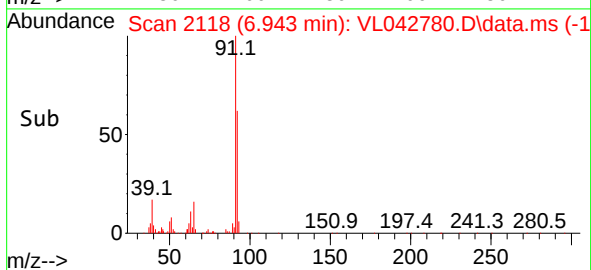
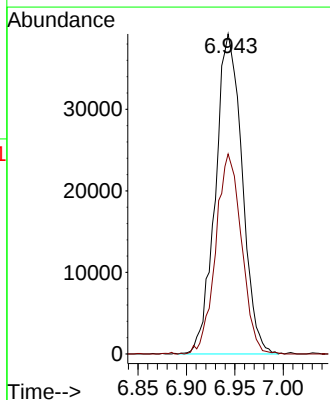
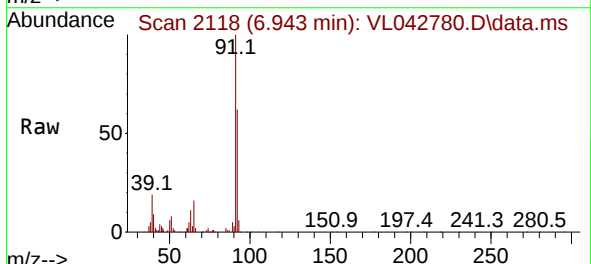
Manual Integrations
APPROVED

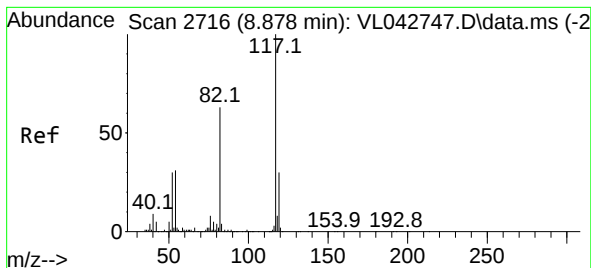
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 1.864 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 91 Resp: 75371
Ion Ratio Lower Upper
91 100
92 60.6 48.0 72.0





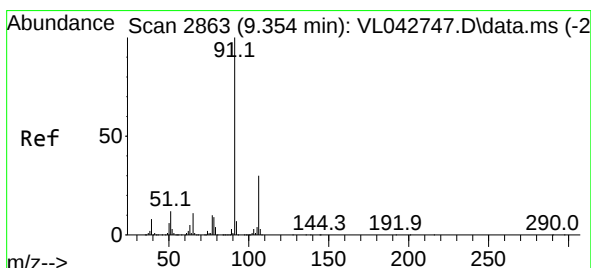
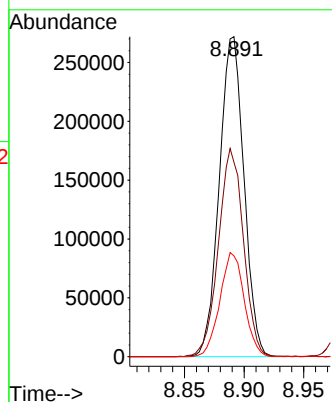
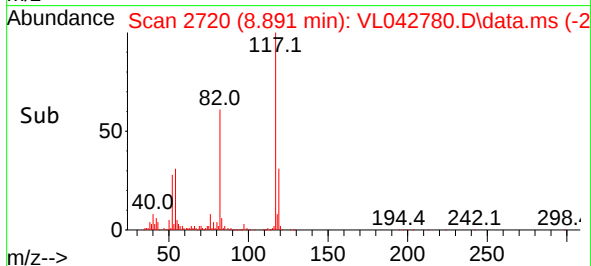
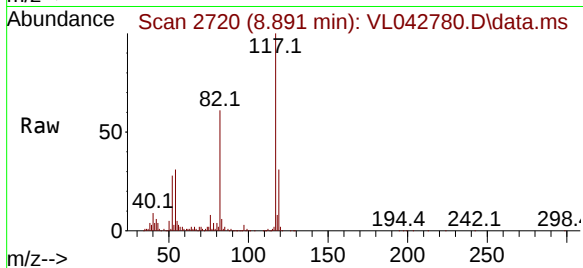
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion:117 Resp: 391610
Ion Ratio Lower Upper
117 100
82 66.1 53.3 79.9
119 32.1 25.8 38.6

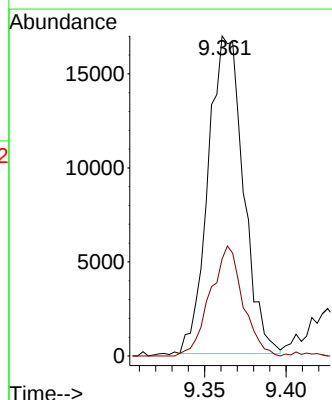
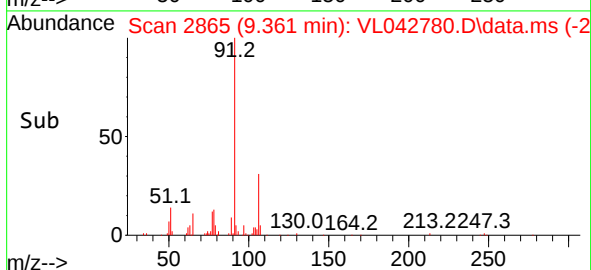
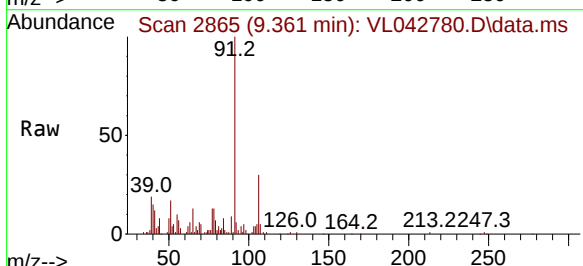
Manual Integrations
APPROVED

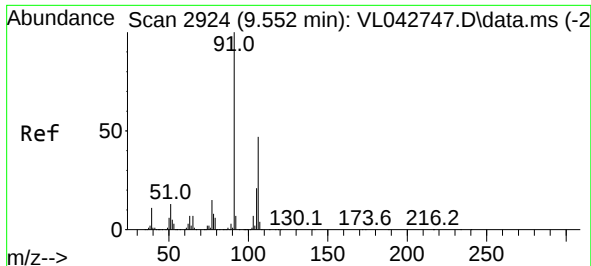
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#58
Ethyl Benzene
Concen: 0.410 ppbv
RT: 9.361 min Scan# 2865
Delta R.T. 0.007 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 91 Resp: 25341
Ion Ratio Lower Upper
91 100
106 30.6 23.8 35.6





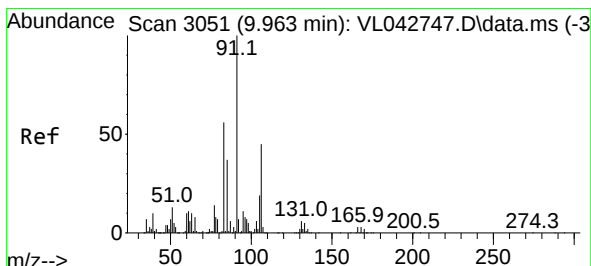
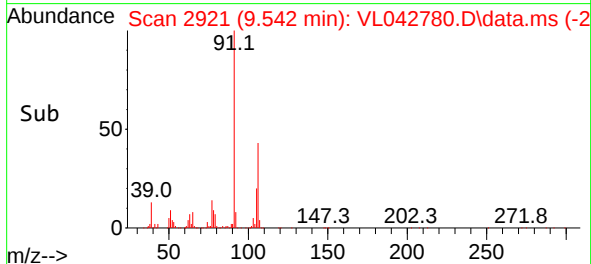
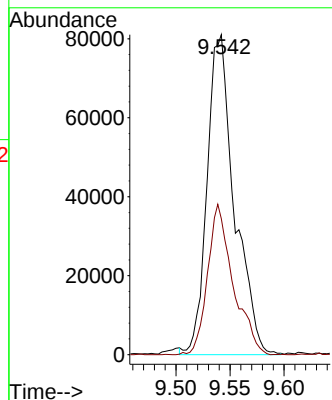
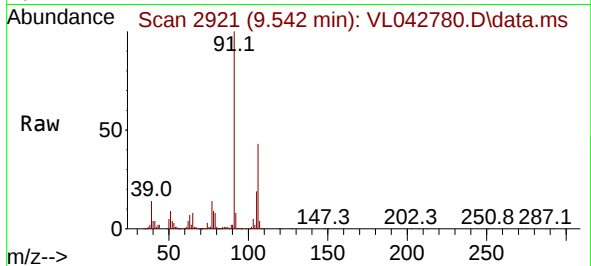
#59
m/p-Xylene
Concen: 2.892 ppbv m
RT: 9.542 min Scan# 2924
Delta R.T. -0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 14293
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

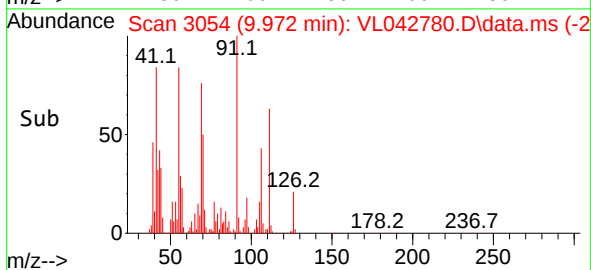
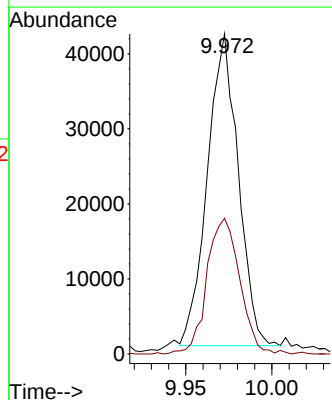
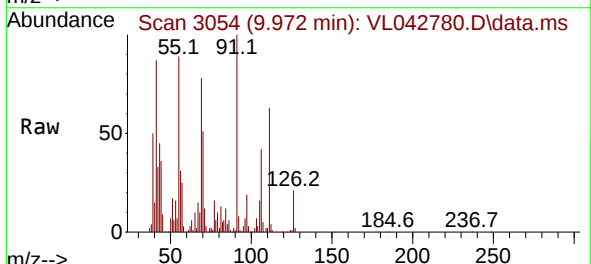
Manual Integrations
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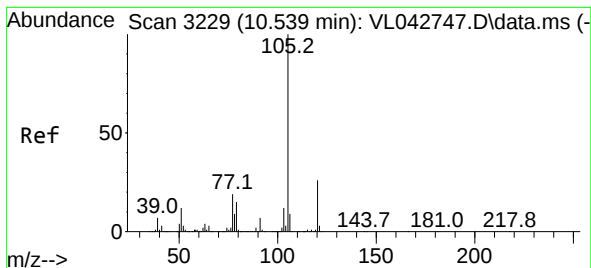
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#60
o-Xylene
Concen: 1.051 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042780.D
Acq: 29 Jul 2025 13:13

Tgt Ion: 91 Resp: 51884
Ion Ratio Lower Upper
91 100
106 46.6 22.0 66.0





#62

Isopropylbenzene

Concen: 0.219 ppbv

RT: 10.545 min Scan# 31

Delta R.T. 0.007 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion:105 Resp: 15964

Ion Ratio Lower Upper

105 100

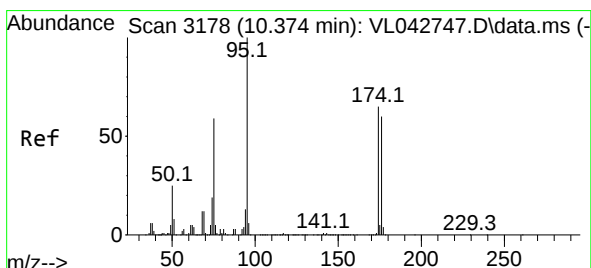
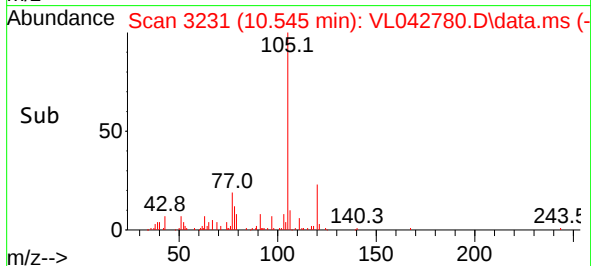
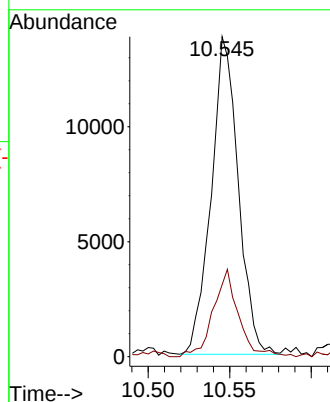
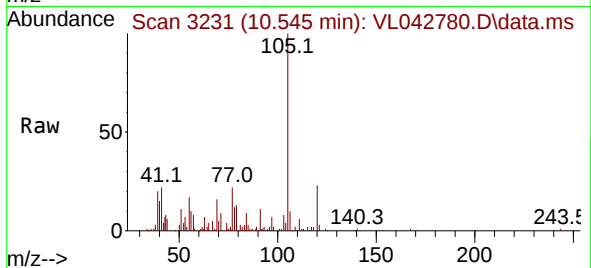
120 27.2 20.5 30.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#68

1-Bromo-4-Fluorobenzene

Concen: 9.911 ppbv

RT: 10.383 min Scan# 3181

Delta R.T. 0.010 min

Lab File: VL042780.D

Acq: 29 Jul 2025 13:13

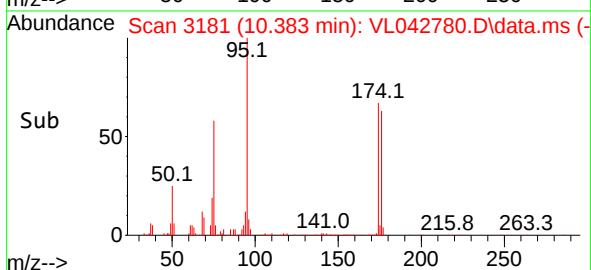
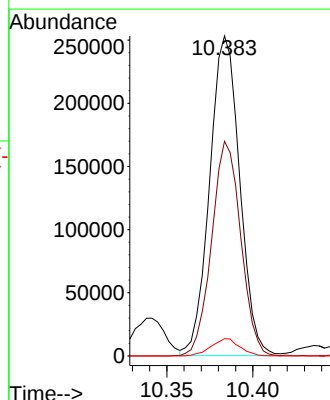
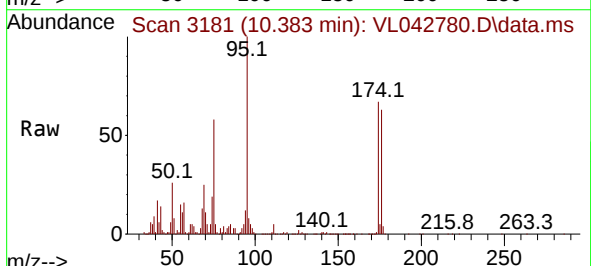
Tgt Ion: 95 Resp: 307367

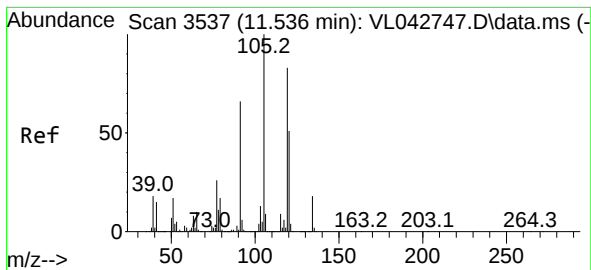
Ion Ratio Lower Upper

95 100

174 65.2 53.8 80.6

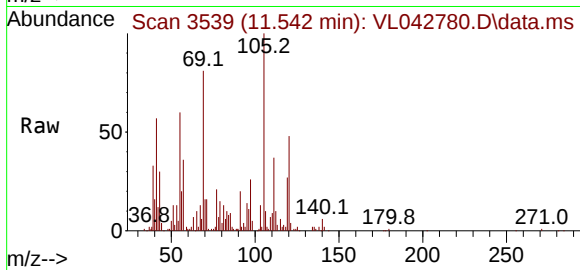
175 5.2 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.454 ppbv
 RT: 11.542 min Scan# 3539
 Delta R.T. 0.007 min
 Lab File: VL042780.D
 Acq: 29 Jul 2025 13:13

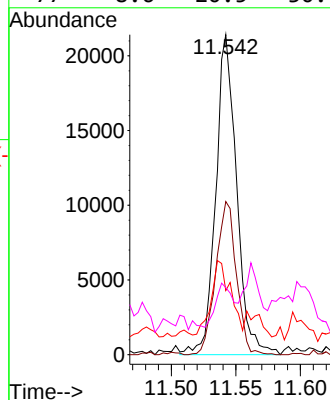
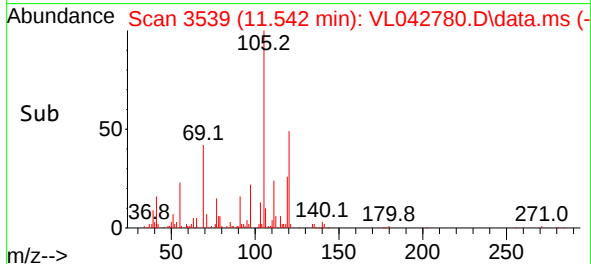
Instrument : MSVOA_L
 ClientSampleId : SV3



Tgt Ion:	105	Resp:	24049
Ion Ratio	Lower	Upper	
105	100		
120	47.9	40.8	61.2
91	13.0	53.0	79.4
77	8.6	20.5	30.7

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	IA2	SDG No.:	Q2712
Lab Sample ID:	Q2712-04	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
VL042782.D	1		07/29/25 14:24	vl072925

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
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.12	0.81		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	149000		2.793			
540-36-3	1,4-Difluorobenzene	414000		3.968			
3114-55-4	Chlorobenzene-d5	376000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042782.D
 Acq On : 29 Jul 2025 14:24
 Operator : SY/MD
 Sample : Q2712-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:12:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	149325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	414208	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	375602	10.000	ppbv	0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 309167 10.394 ppbv 0.01
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.900%

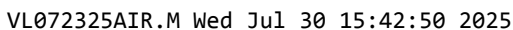
Target Compounds

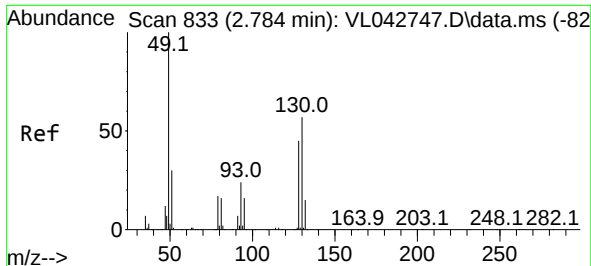
						Qvalue
2) Dichlorodifluoromethane	1.499	85	16650	0.843	ppbv	98
3) Chlorodifluoromethane	1.473	51	58901m	2.290	ppbv	
4) Chloromethane	1.534	50	7070	0.885	ppbv	94
10) Heptane	4.994	43	15030m	0.596	ppbv	
11) Trichlorofluoromethane	1.884	101	24157	1.187	ppbv	95
13) Ethanol	1.729	45	1607041	2360.036	ppbv	100
15) Acetone	1.839	43	375143	18.194	ppbv	98
19) Isopropyl Alcohol	1.890	45	106307	9.702	ppbv #	12
23) Vinyl Acetate	2.463	43	78293m	3.132	ppbv	
25) Ethyl Acetate	2.842	43	752515	16.488	ppbv #	91
29) Chloroform	2.858	83	22930	0.741	ppbv	97
34) 2-Butanone	2.567	43	66120	2.254	ppbv	99
35) Carbon Tetrachloride	3.771	117	4664	0.152	ppbv #	86
36) Benzene	3.667	78	11868	0.302	ppbv #	94
44) 2,2,4-Trimethylpentane	4.655	57	10995m	0.172	ppbv	
50) 4-Methyl-2-Pentanone	5.791	43	29133m	0.771	ppbv	
51) 2-Hexanone	7.457	43	23562	0.825	ppbv #	97
52) Tetrachloroethene	8.244	164	1884m	0.116	ppbv	
53) Toluene	6.953	91	72108	1.711	ppbv	98
58) Ethyl Benzene	9.367	91	12419	0.209	ppbv	95
59) m/p-Xylene	9.545	91	43961	0.927	ppbv	99
60) o-Xylene	9.972	91	22835	0.482	ppbv	97
61) Styrene	9.878	104	23868	1.198	ppbv	92
64) n-propylbenzene	10.995	120	5095	0.280	ppbv	77
69) p-Isopropyltoluene	11.934	119	52072	0.723	ppbv	99
72) 4-Ethyltoluene	11.134	105	29045	0.513	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.212	105	34083	0.732	ppbv	95
74) 1,2,4-Trimethylbenzene	11.545	105	132016	2.598	ppbv #	64
76) 1,4-Dichlorobenzene	11.681	146	10764	0.309	ppbv	97
79) Naphthalene	13.520	128	15108	0.697	ppbv #	94

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

Manual Integrations APPROVED

Quant Time: Jul 30 01:12:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





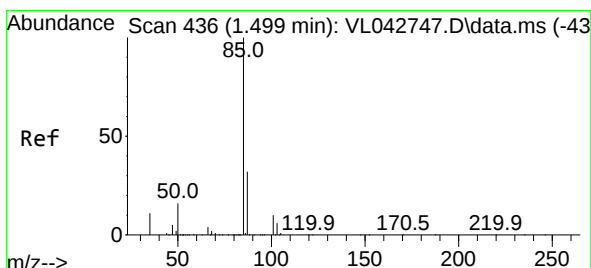
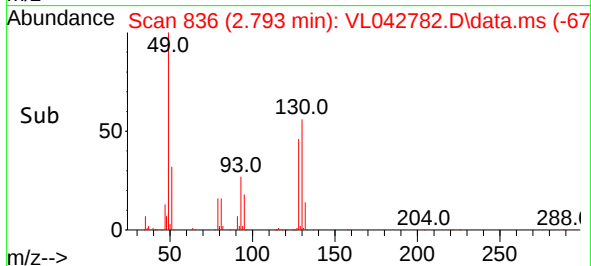
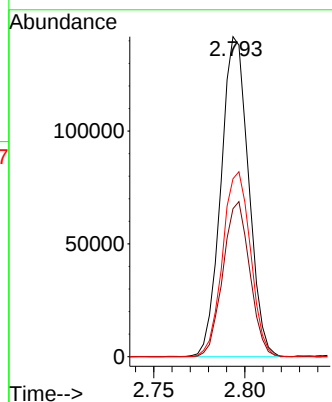
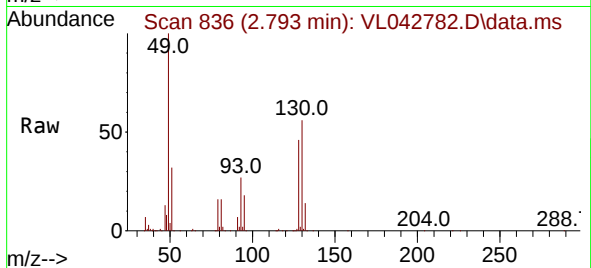
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. 0.009 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 49 Resp: 14932
Ion Ratio Lower Upper
49 100
128 47.1 23.6 71.0
130 58.6 30.3 90.8

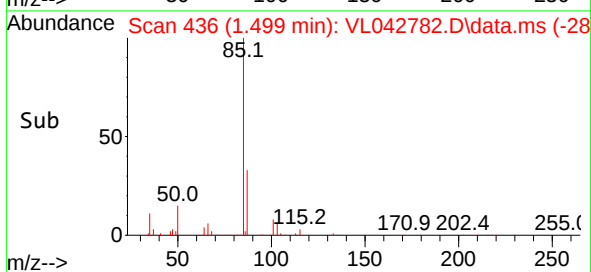
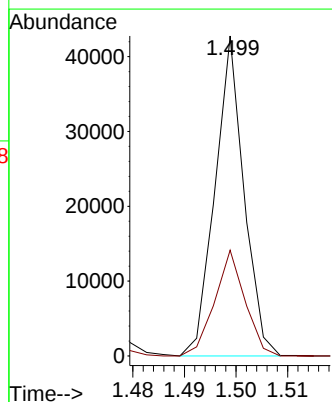
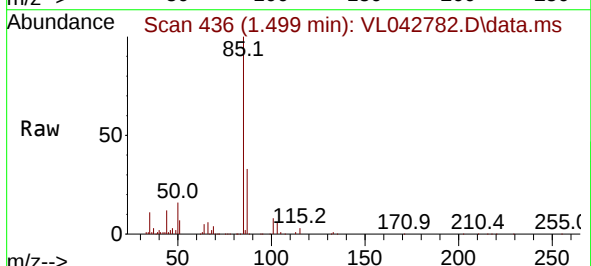
Manual Integrations
APPROVED

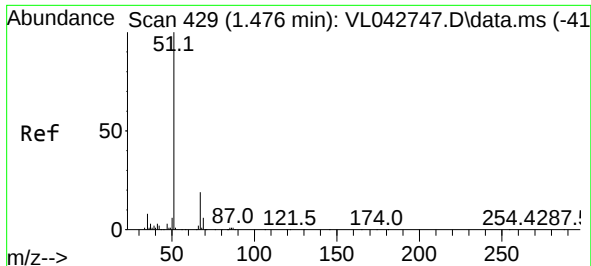
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.843 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

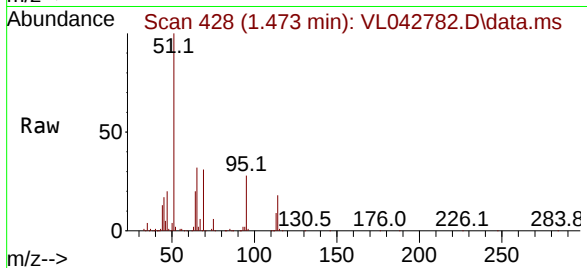
Tgt Ion: 85 Resp: 16650
Ion Ratio Lower Upper
85 100
87 33.1 25.4 38.2





#3
Chlorodifluoromethane
Concen: 2.290 ppbv m
RT: 1.473 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

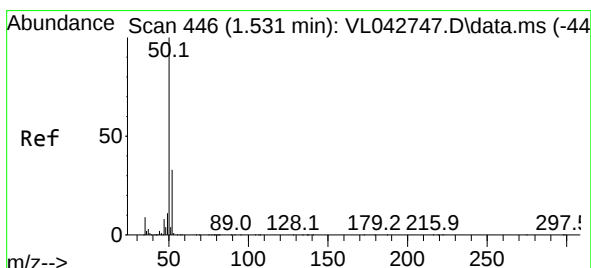
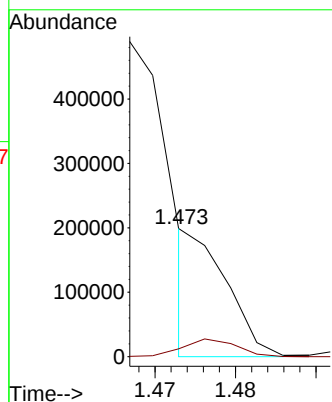
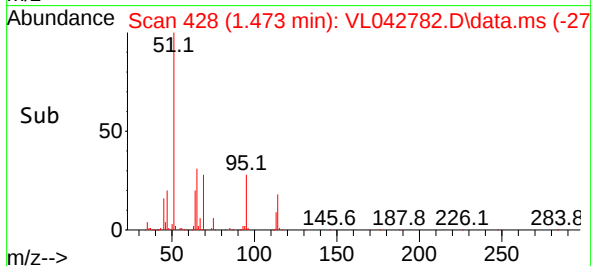
Instrument :
MSVOA_L
ClientSampleId :
IA2



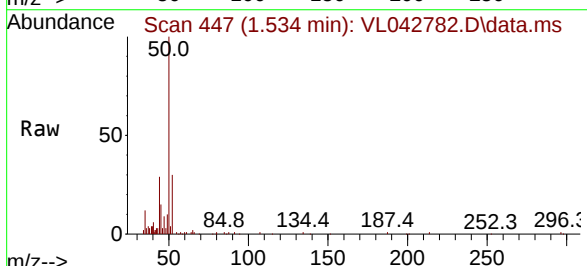
Tgt Ion: 51 Resp: 5890
Ion Ratio Lower Upper
51 100
67 23.7 15.0 22.6

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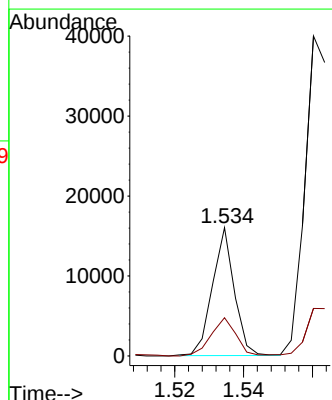
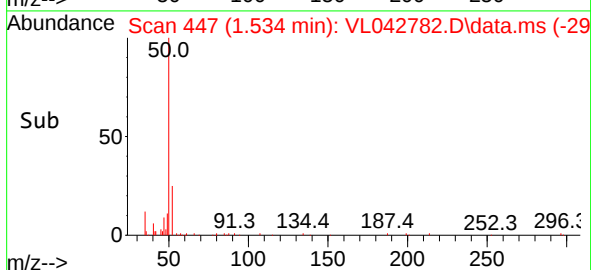
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

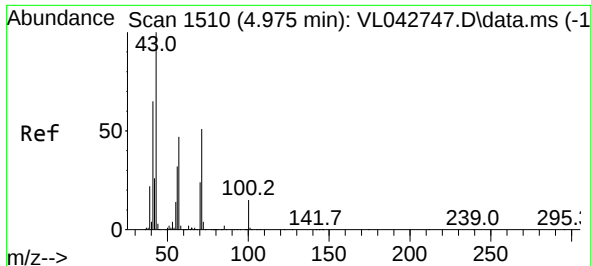


#4
Chloromethane
Concen: 0.885 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



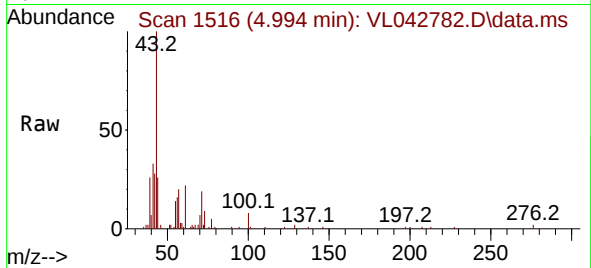
Tgt Ion: 50 Resp: 7070
Ion Ratio Lower Upper
50 100
52 30.0 26.6 40.0





#10
Heptane
Concen: 0.596 ppbv m
RT: 4.994 min Scan# 1510
Delta R.T. 0.019 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

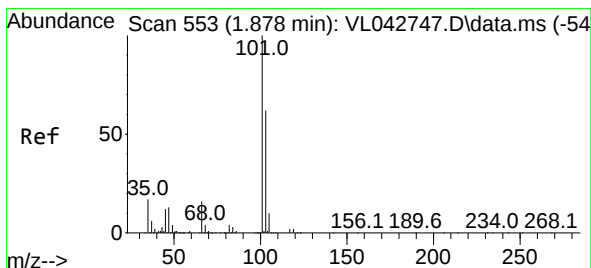
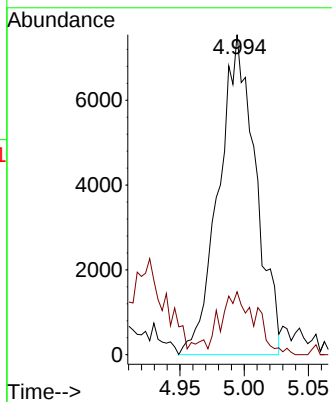
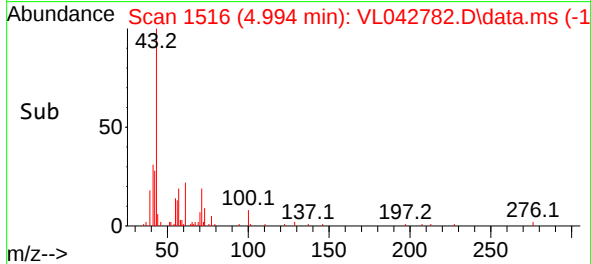
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 15030
Ion Ratio Lower Upper
43 100
57 19.6 39.9 59.9

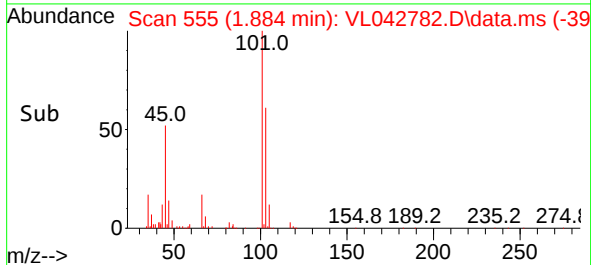
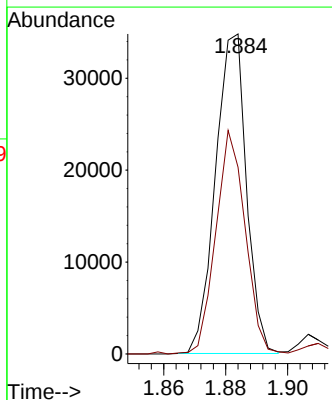
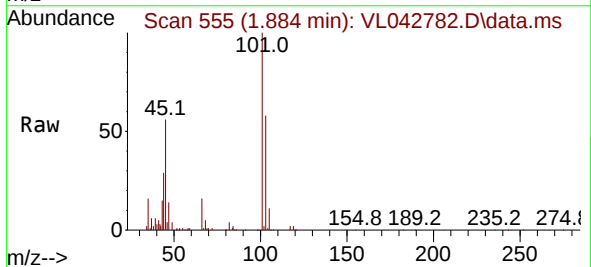
Manual Integrations
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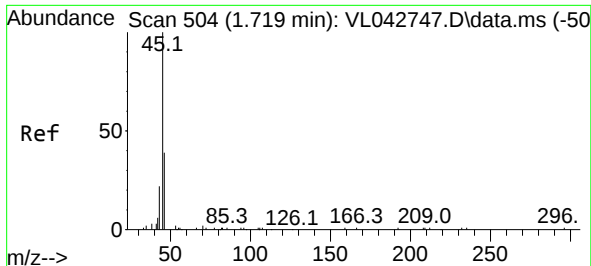
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#11
Trichlorofluoromethane
Concen: 1.187 ppbv
RT: 1.884 min Scan# 555
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

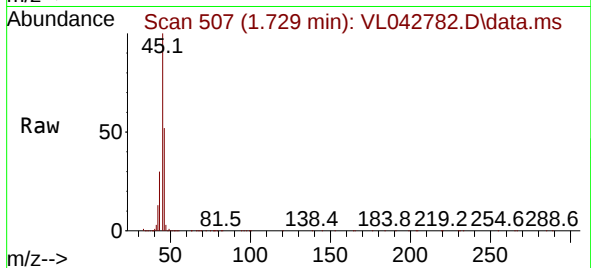
Tgt Ion:101 Resp: 24157
Ion Ratio Lower Upper
101 100
103 58.2 49.6 74.4





#13
Ethanol
Concen: 2360.036 ppbv
RT: 1.729 min Scan# 504
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

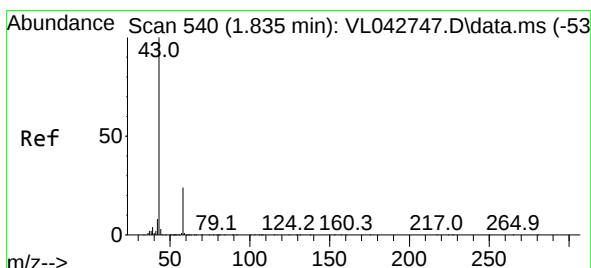
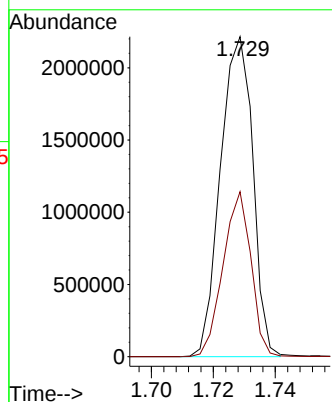
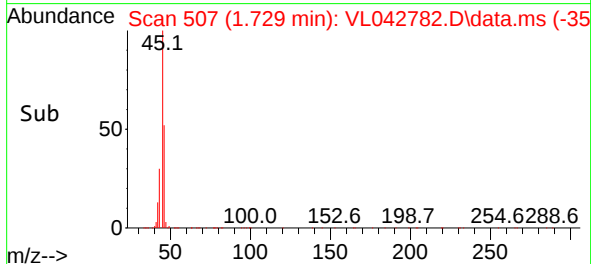
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 160704
Ion Ratio Lower Upper
45 100
46 44.7 17.8 71.4

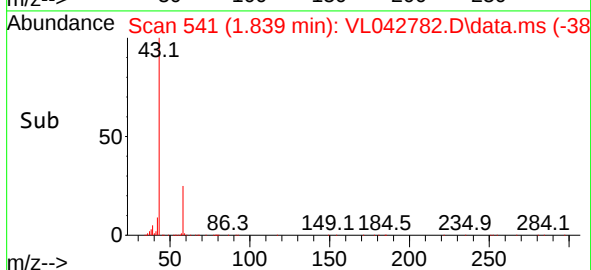
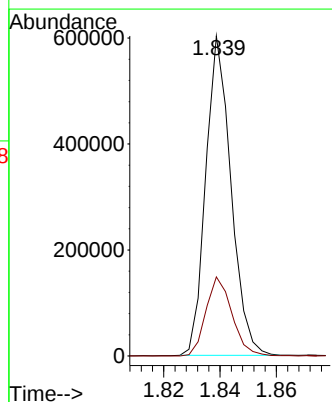
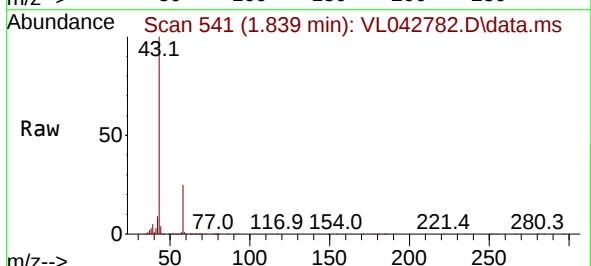
Manual Integrations
APPROVED

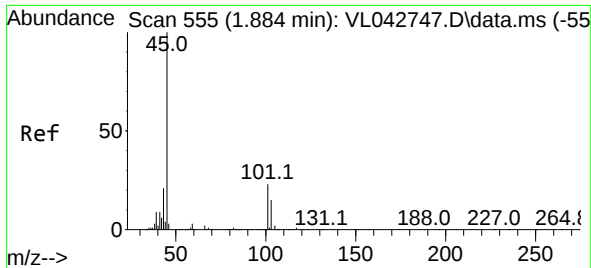
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#15
Acetone
Concen: 18.194 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 43 Resp: 375143
Ion Ratio Lower Upper
43 100
58 25.6 19.8 29.8





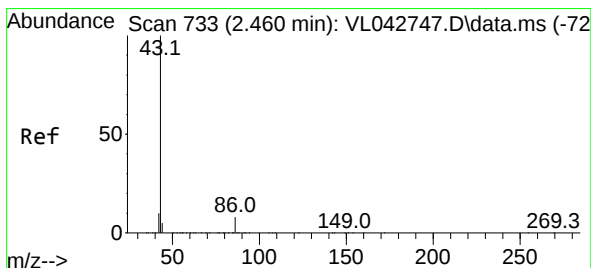
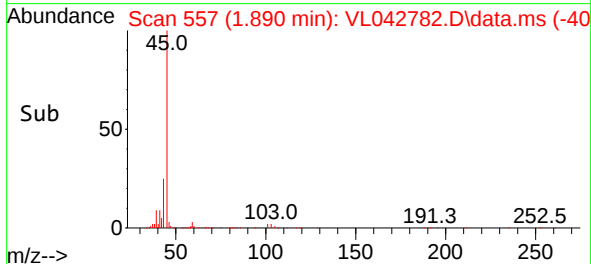
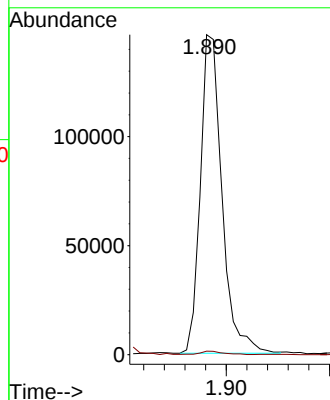
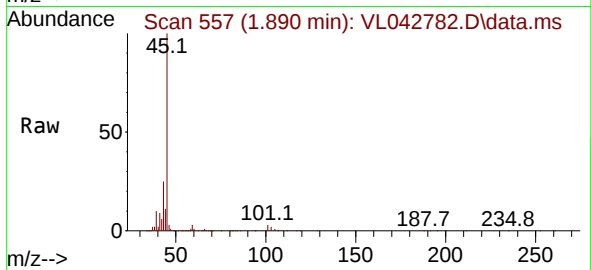
#19
Isopropyl Alcohol
Concen: 9.702 ppbv
RT: 1.890 min Scan# 51
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 45 Resp: 106307
Ion Ratio Lower Upper
45 100
58 90.4 30.0 45.0

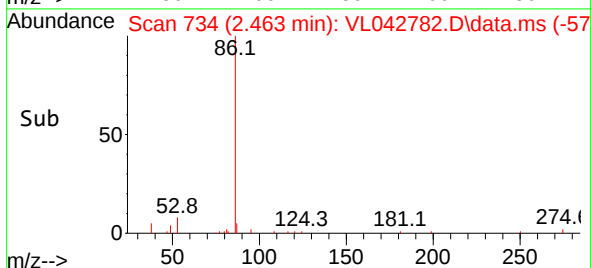
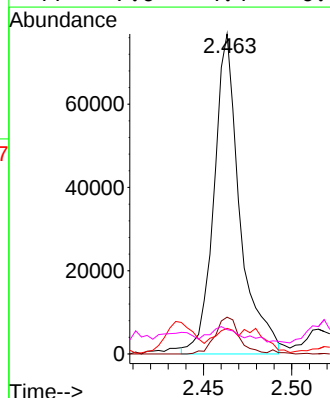
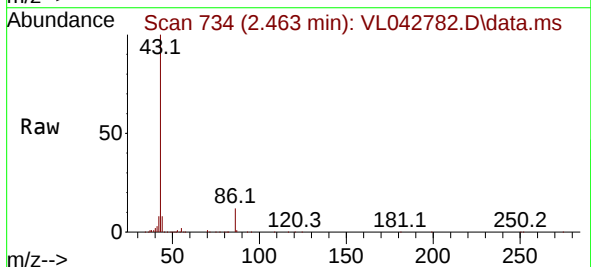
Manual Integrations
APPROVED

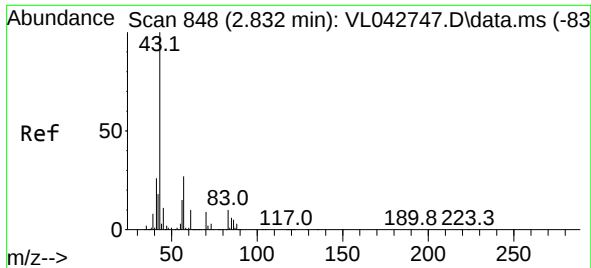
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#23
Vinyl Acetate
Concen: 3.132 ppbv m
RT: 2.463 min Scan# 734
Delta R.T. 0.003 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion: 43 Resp: 78293
Ion Ratio Lower Upper
43 100
86 11.5 6.1 9.1#
42 8.0 7.8 11.8
44 7.6 4.4 6.6#





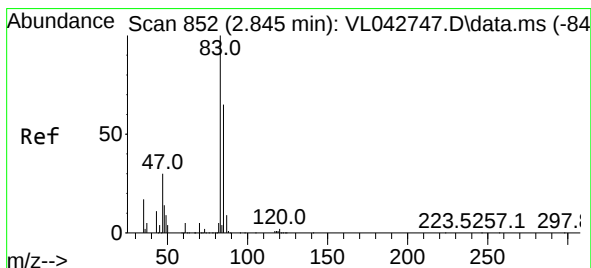
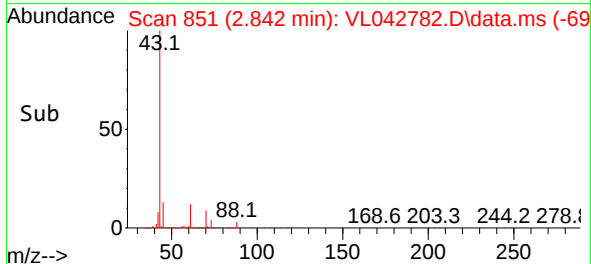
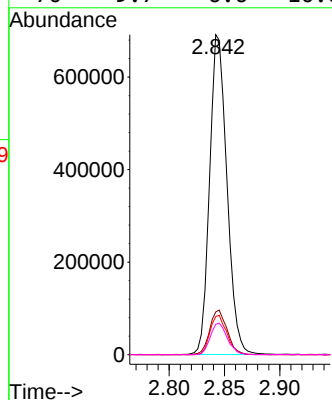
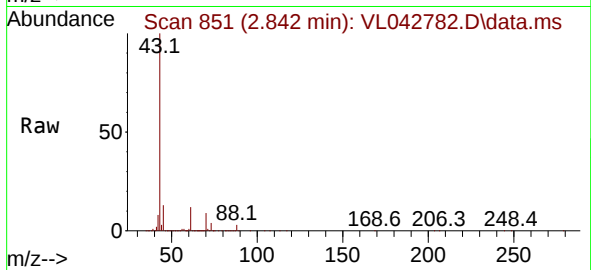
#25
Ethyl Acetate
Concen: 16.488 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 75251
Ion Ratio Lower Upper
43 100
45 14.1 7.8 11.6
61 12.1 6.7 10.1
70 9.7 6.6 10.0

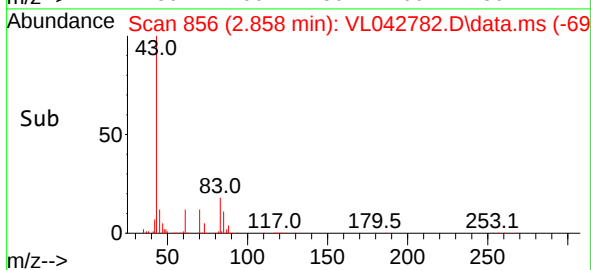
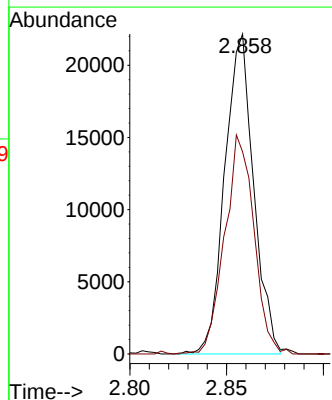
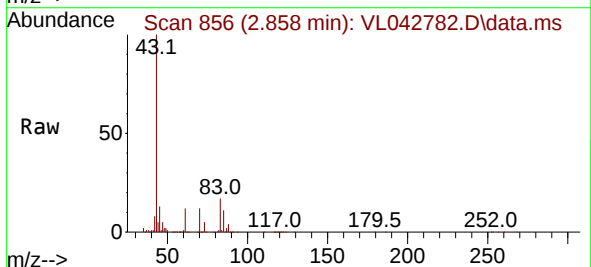
Manual Integrations
APPROVED

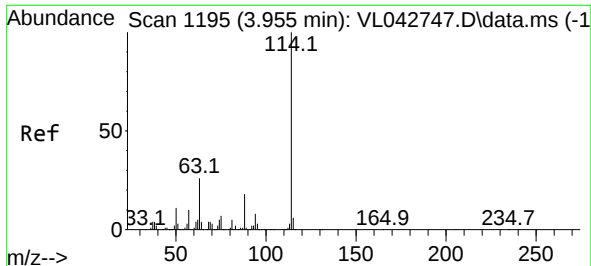
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#29
Chloroform
Concen: 0.741 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

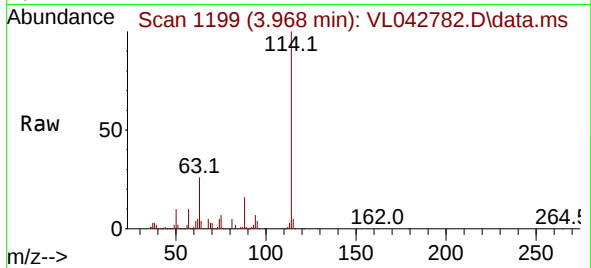
Tgt Ion: 83 Resp: 22930
Ion Ratio Lower Upper
83 100
85 62.9 52.2 78.2





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

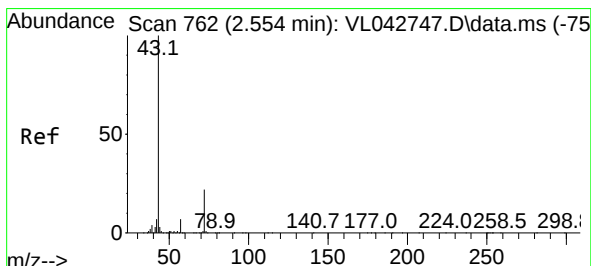
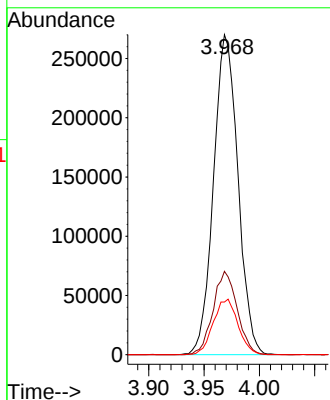
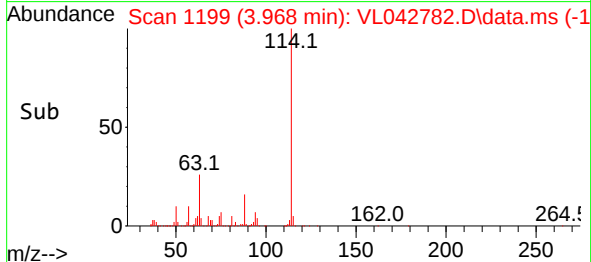
Instrument :
MSVOA_L
ClientSampleId :
IA2



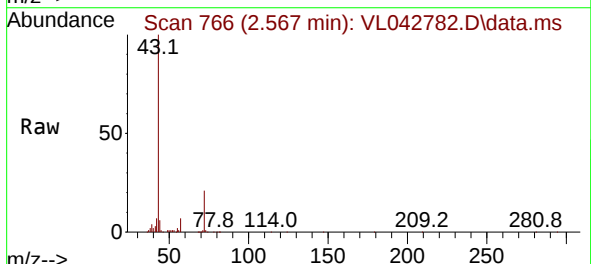
Tgt Ion:114 Resp: 414208
Ion Ratio Lower Upper
114 100
63 25.8 20.5 30.7
88 17.6 14.0 21.0

Manual Integrations
APPROVED

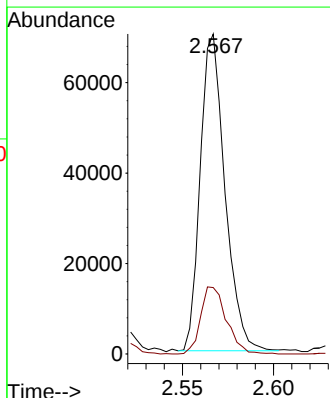
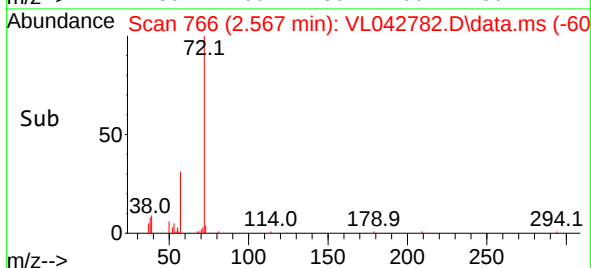
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

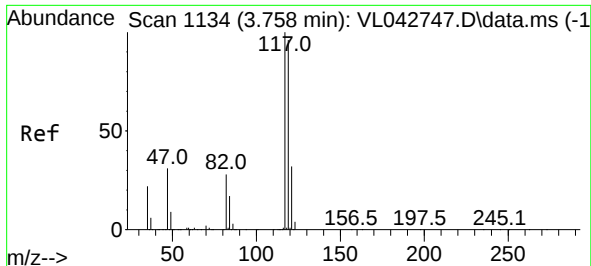


#34
2-Butanone
Concen: 2.254 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



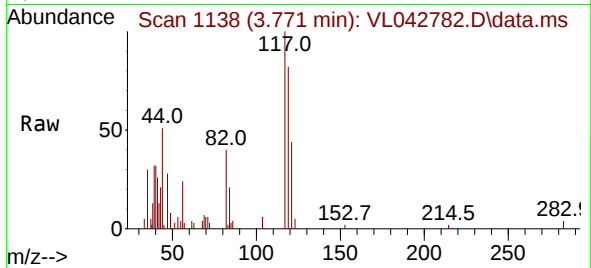
Tgt Ion: 43 Resp: 66120
Ion Ratio Lower Upper
43 100
72 22.1 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.152 ppbv
RT: 3.771 min Scan# 1134
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

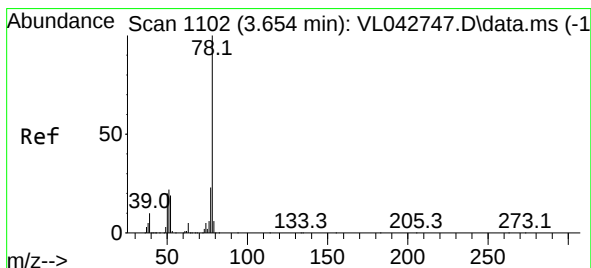
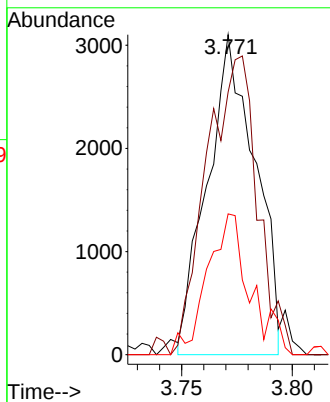
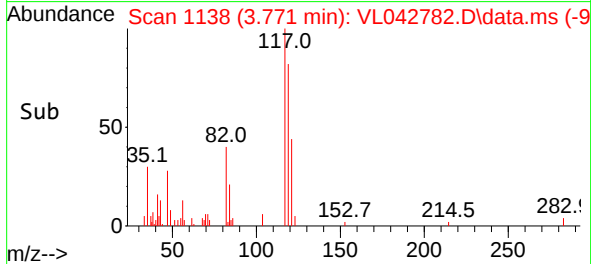
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 117 Resp: 4664
Ion Ratio Lower Upper
117 100
119 82.2 77.1 115.7
121 38.6 25.5 38.3

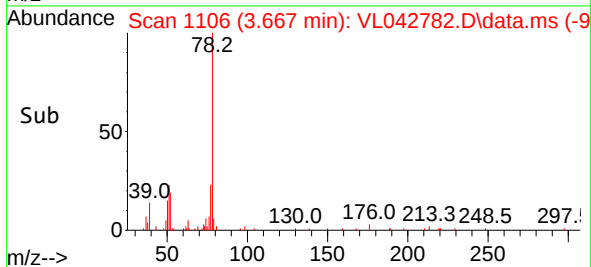
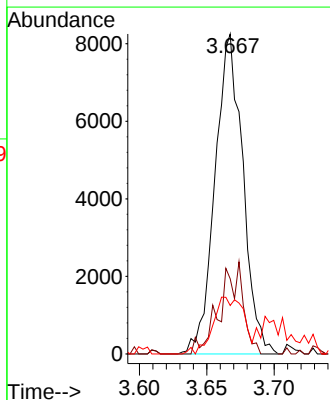
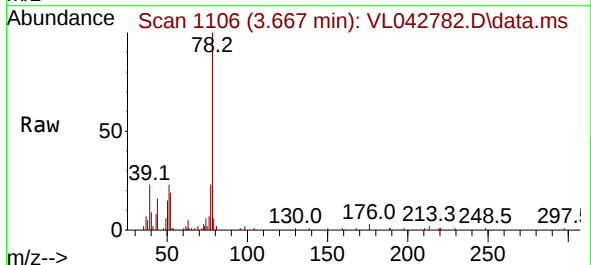
Manual Integrations
APPROVED

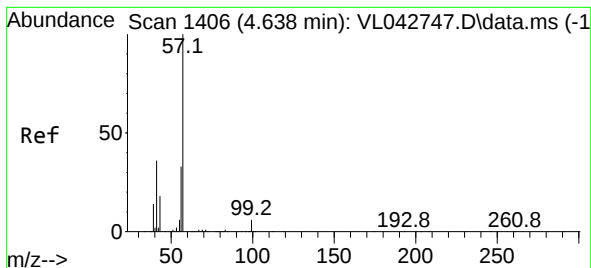
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#36
Benzene
Concen: 0.302 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

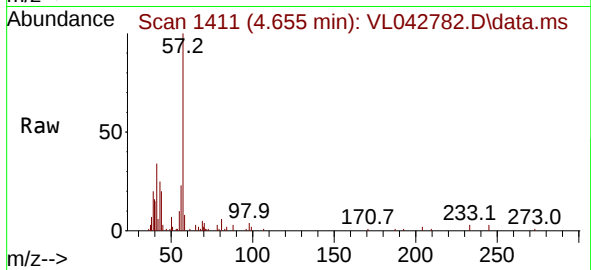
Tgt Ion: 78 Resp: 11868
Ion Ratio Lower Upper
78 100
77 23.5 18.5 27.7
50 15.1 16.2 24.2#





#44
2,2,4-Trimethylpentane
Concen: 0.172 ppbv m
RT: 4.655 min Scan# 1406
Delta R.T. 0.016 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

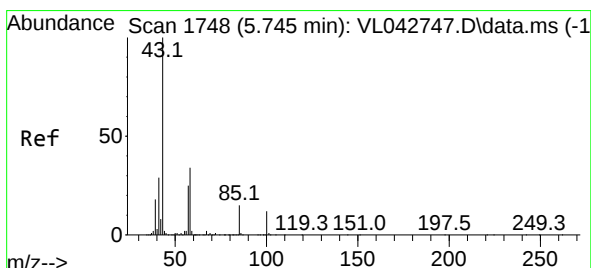
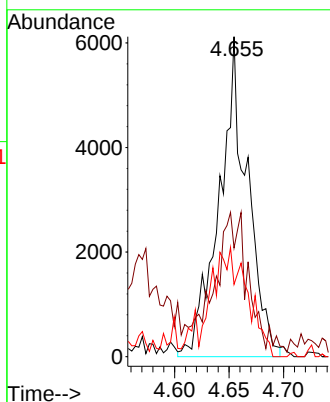
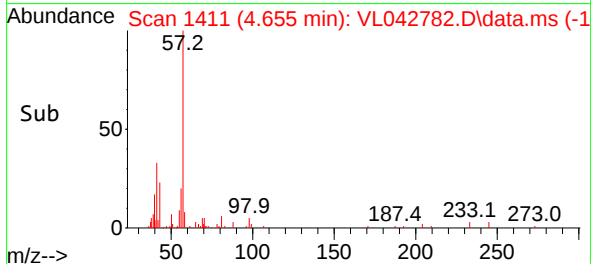
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 1099
Ion Ratio Lower Upper
57 100
41 50.5 28.3 42.5
56 46.3 25.8 38.6

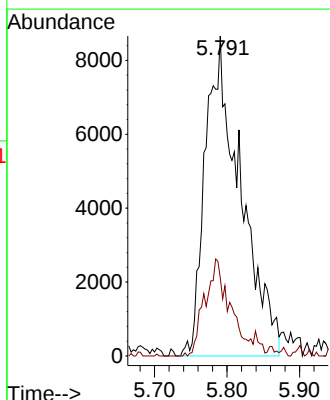
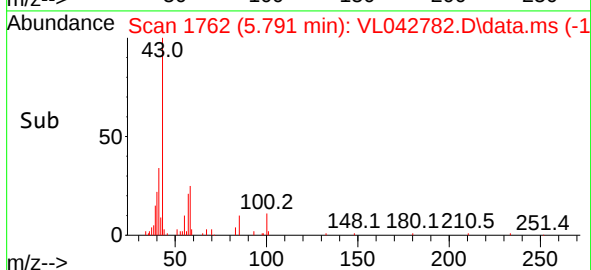
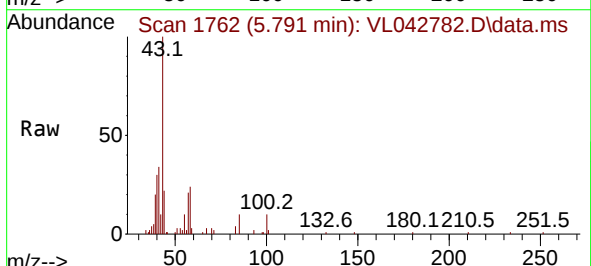
Manual Integrations
APPROVED

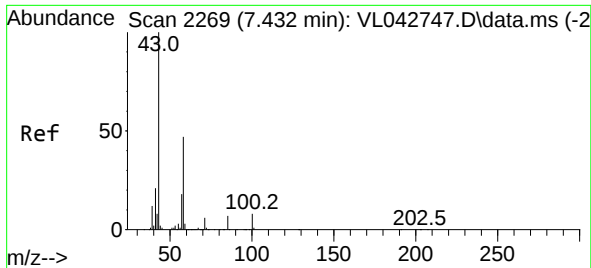
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#50
4-Methyl-2-Pentanone
Concen: 0.771 ppbv m
RT: 5.791 min Scan# 1762
Delta R.T. 0.045 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

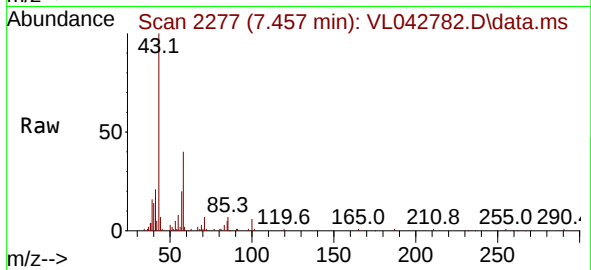
Tgt Ion: 43 Resp: 29133
Ion Ratio Lower Upper
43 100
58 24.0 27.8 41.8





#51
2-Hexanone
Concen: 0.825 ppbv
RT: 7.457 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

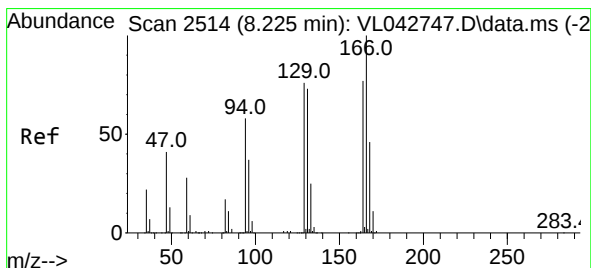
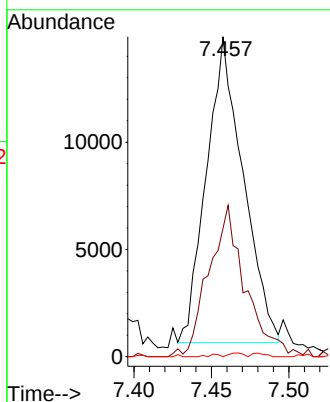
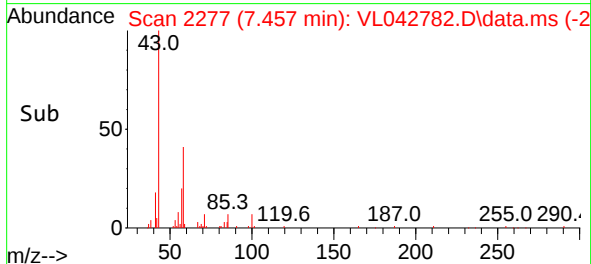
Instrument :
MSVOA_L
ClientSampleId :
IA2



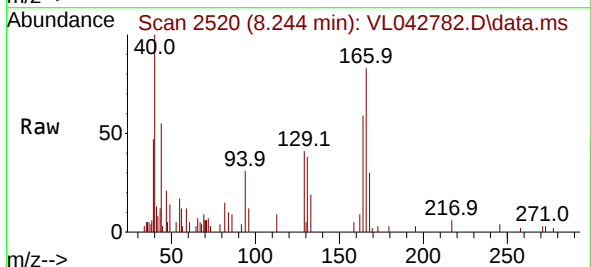
Tgt Ion: 43 Resp: 2356
Ion Ratio Lower Upper
43 100
58 49.5 38.0 57.0
98 1.1 0.2 0.4

Manual Integrations
APPROVED

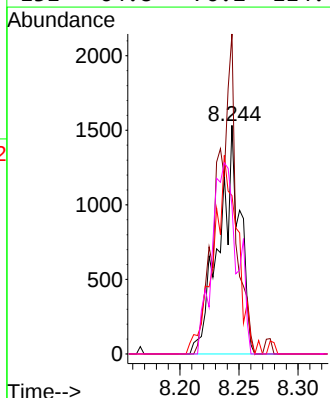
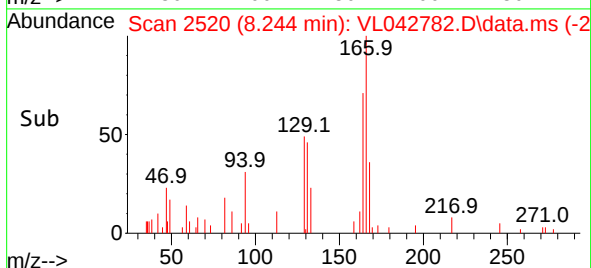
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

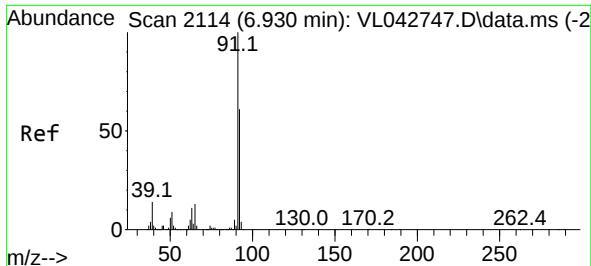


#52
Tetrachloroethene
Concen: 0.116 ppbv m
RT: 8.244 min Scan# 2520
Delta R.T. 0.019 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



Tgt Ion:164 Resp: 1884
Ion Ratio Lower Upper
164 100
166 140.0 104.0 156.0
129 69.3 79.2 118.8#
131 64.8 76.2 114.4#





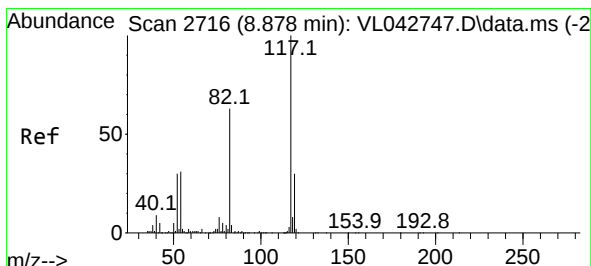
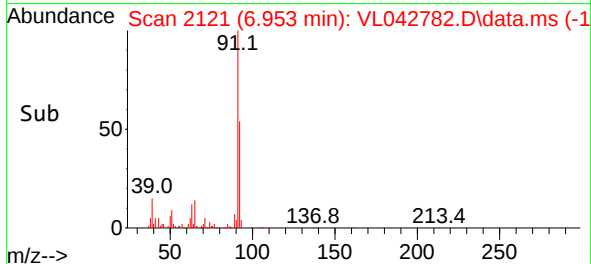
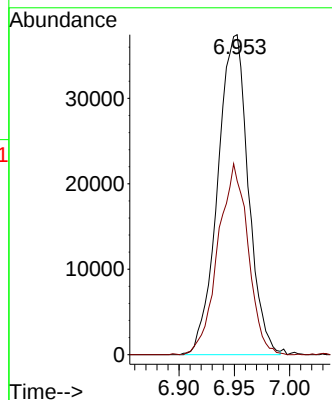
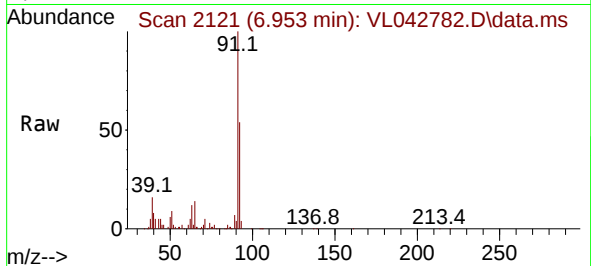
#53
Toluene
Concen: 1.711 ppbv
RT: 6.953 min Scan# 2114
Delta R.T. 0.023 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 72108
Ion Ratio Lower Upper
91 100
92 58.6 48.0 72.0

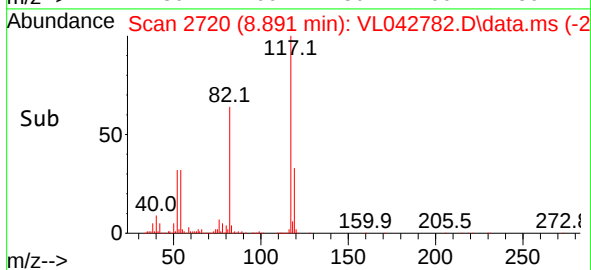
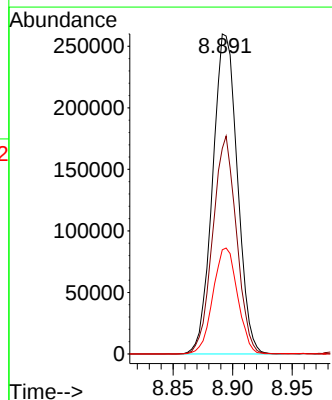
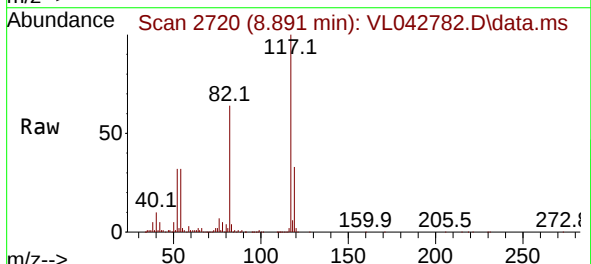
Manual Integrations
APPROVED

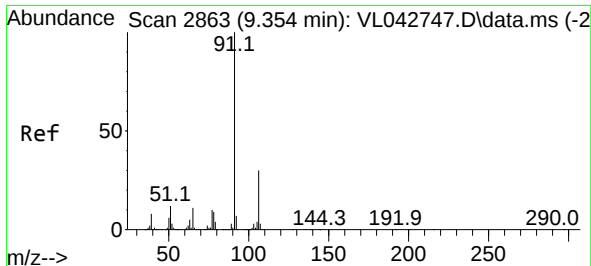
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

Tgt Ion:117 Resp: 375602
Ion Ratio Lower Upper
117 100
82 65.3 53.3 79.9
119 32.9 25.8 38.6





#58

Ethyl Benzene

Concen: 0.209 ppbv

RT: 9.367 min Scan# 2867

Delta R.T. 0.013 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

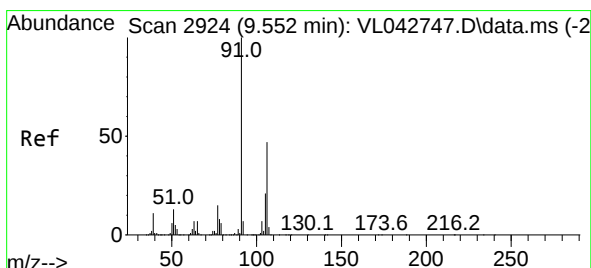
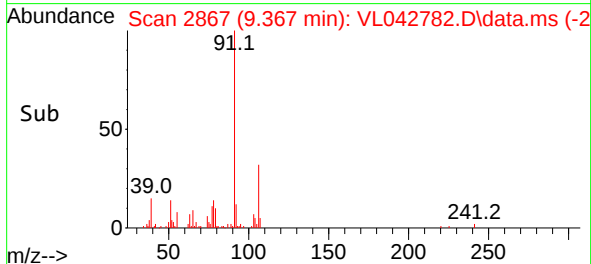
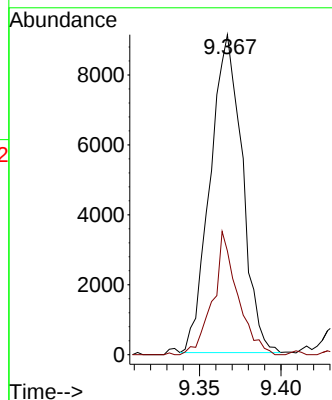
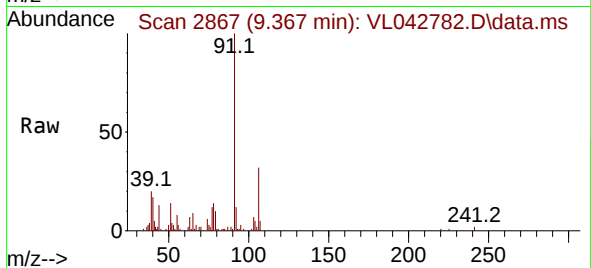
IA2

Tgt Ion: 91 Resp: 12419
 Ion Ratio Lower Upper
 91 100
 106 32.6 23.8 35.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#59

m/p-Xylene

Concen: 0.927 ppbv

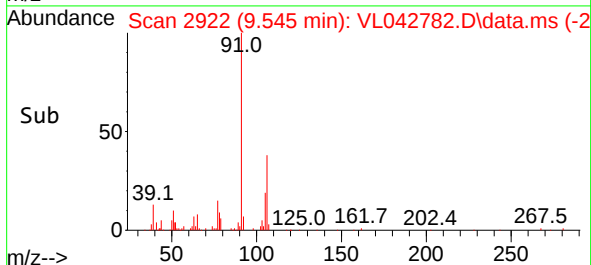
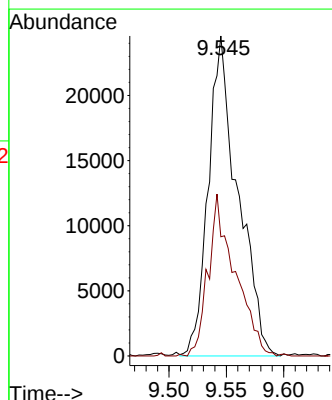
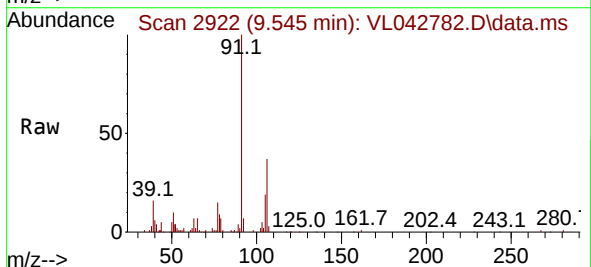
RT: 9.545 min Scan# 2922

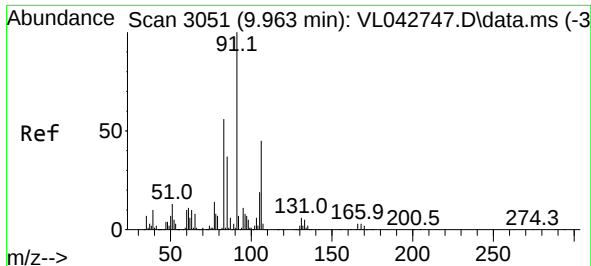
Delta R.T. -0.006 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

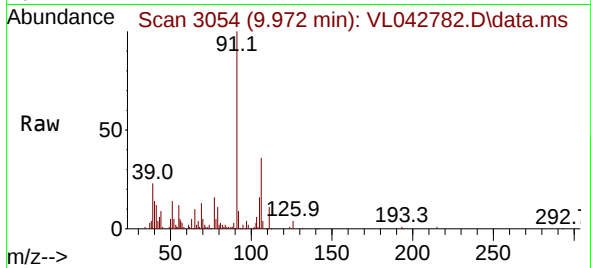
Tgt Ion: 91 Resp: 43961
 Ion Ratio Lower Upper
 91 100
 106 46.2 37.4 56.2





#60
o-Xylene
Concen: 0.482 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

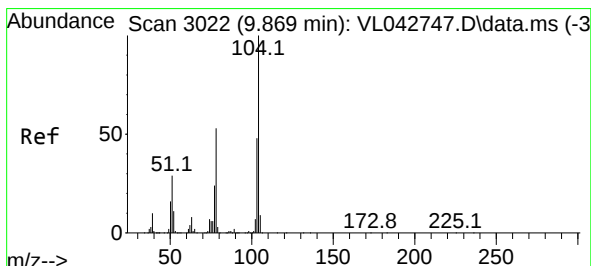
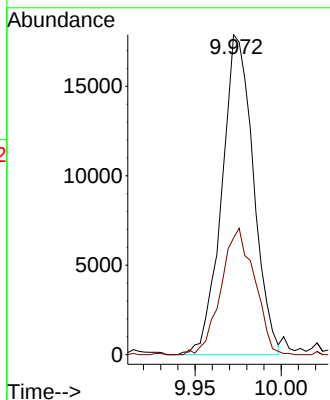
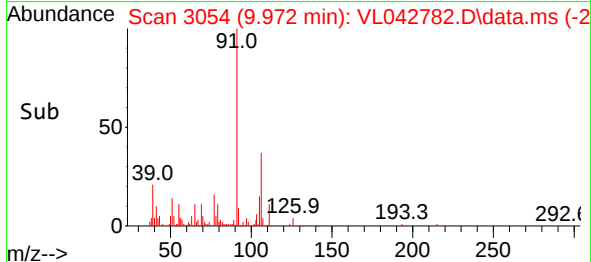
Instrument :
MSVOA_L
ClientSampleId :
IA2



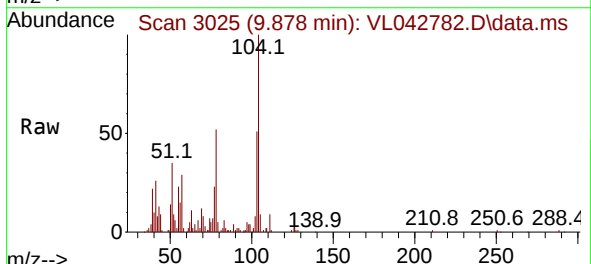
Tgt Ion: 91 Resp: 22835
Ion Ratio Lower Upper
91 100
106 41.9 22.0 66.0

Manual Integrations
APPROVED

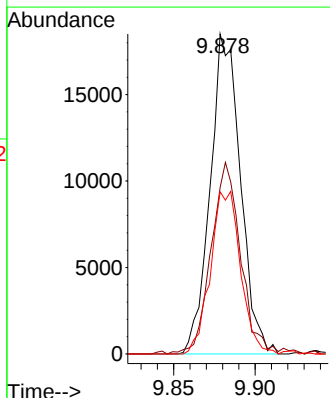
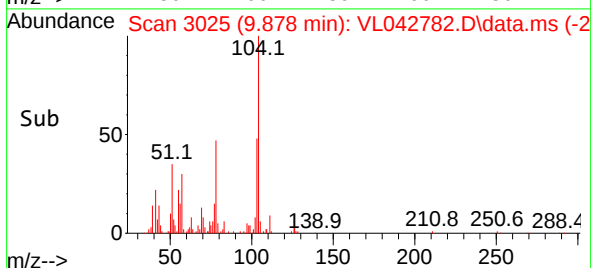
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

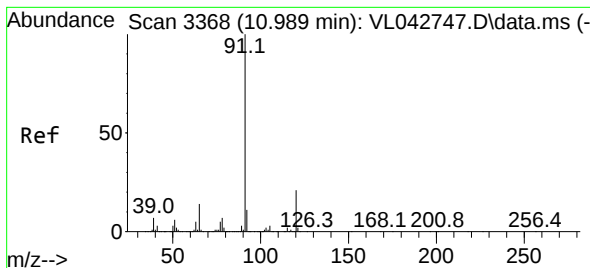


#61
Styrene
Concen: 1.198 ppbv
RT: 9.878 min Scan# 3025
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



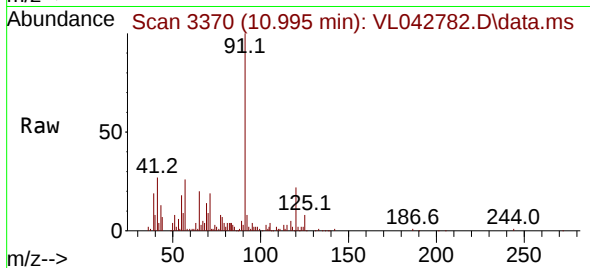
Tgt Ion:104 Resp: 23868
Ion Ratio Lower Upper
104 100
78 59.2 41.5 62.3
103 50.8 37.5 56.3





#64
n-propylbenzene
Concen: 0.280 ppbv
RT: 10.995 min Scan# 311
Delta R.T. 0.006 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

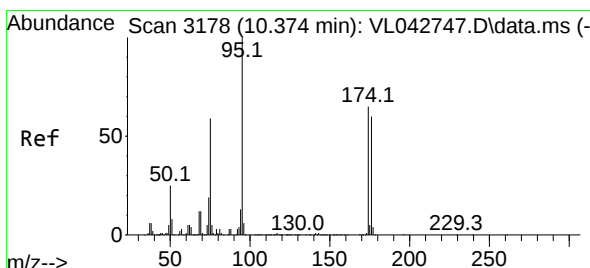
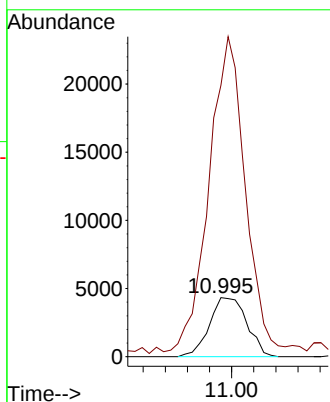
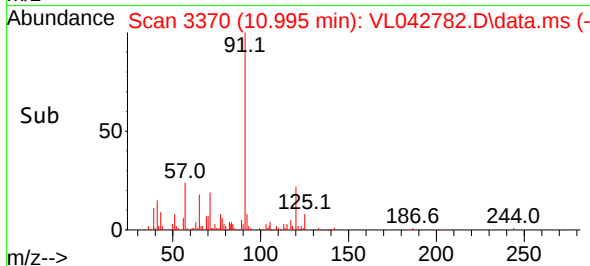
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:120 Resp: 509
Ion Ratio Lower Upper
120 100
91 526.8 372.7 559.1

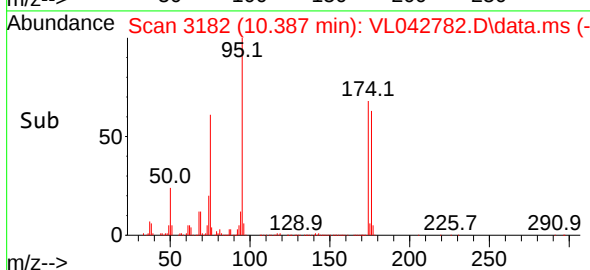
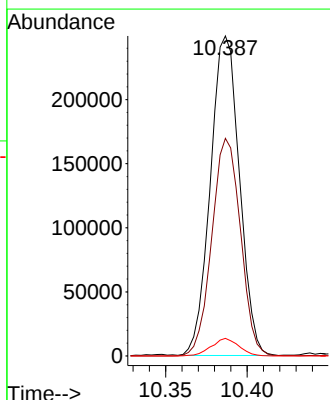
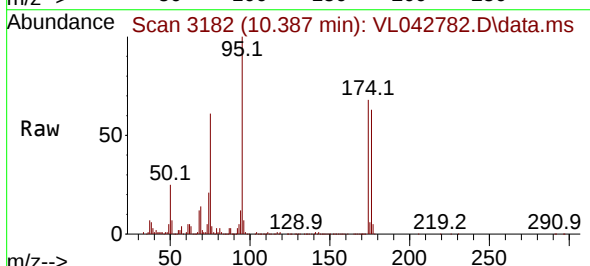
Manual Integrations
APPROVED

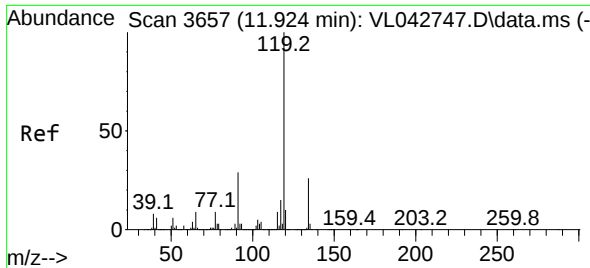
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.394 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.013 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

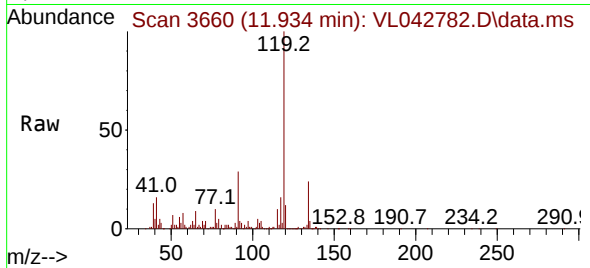
Tgt Ion: 95 Resp: 309167
Ion Ratio Lower Upper
95 100
174 67.2 53.8 80.6
175 5.2 4.0 6.0





#69
p-Isopropyltoluene
Concen: 0.723 ppbv
RT: 11.934 min Scan# 3657
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24

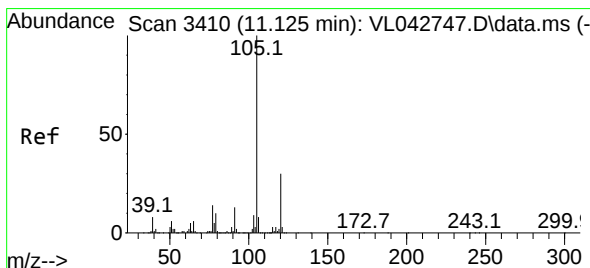
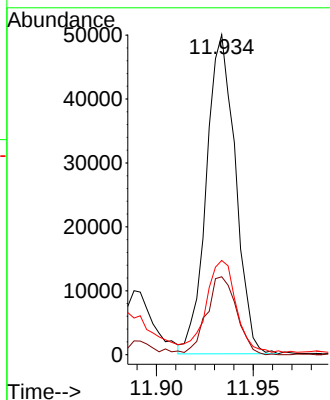
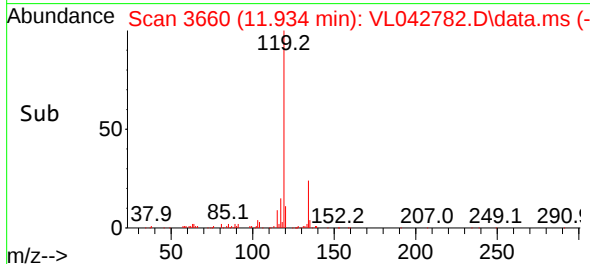
Instrument :
MSVOA_L
ClientSampleId :
IA2



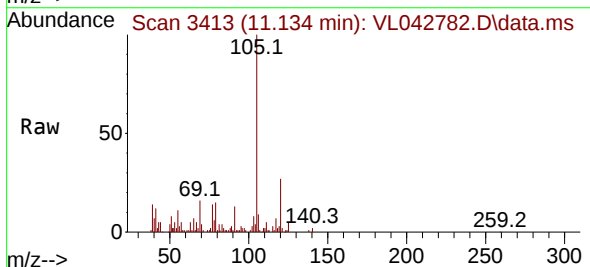
Tgt Ion:119 Resp: 52072
Ion Ratio Lower Upper
119 100
134 25.5 20.6 31.0
91 30.1 23.2 34.8

Manual Integrations
APPROVED

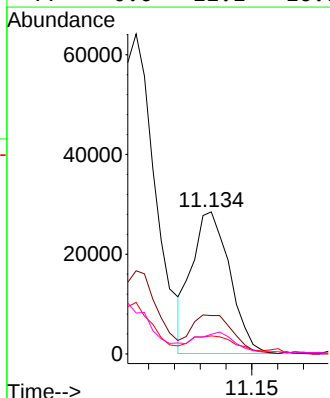
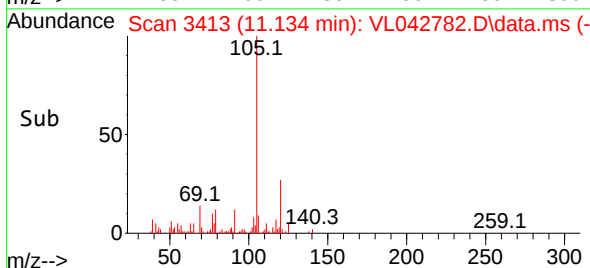
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

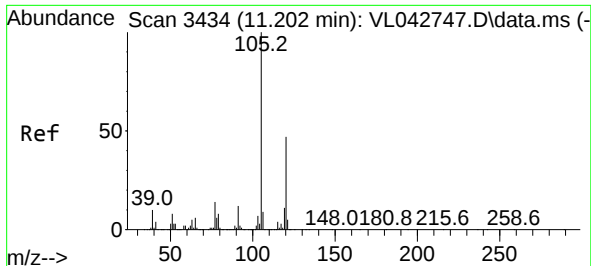


#72
4-Ethyltoluene
Concen: 0.513 ppbv
RT: 11.134 min Scan# 3413
Delta R.T. 0.010 min
Lab File: VL042782.D
Acq: 29 Jul 2025 14:24



Tgt Ion:105 Resp: 29045
Ion Ratio Lower Upper
105 100
120 0.0 24.4 36.6#
91 0.0 10.6 15.8#
77 0.0 11.1 16.7#





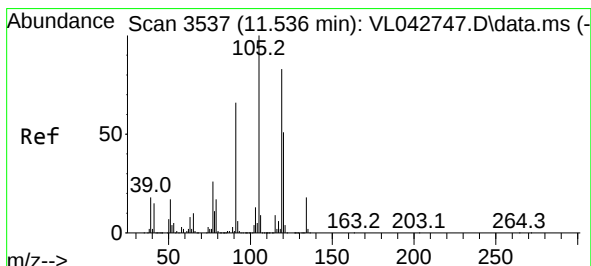
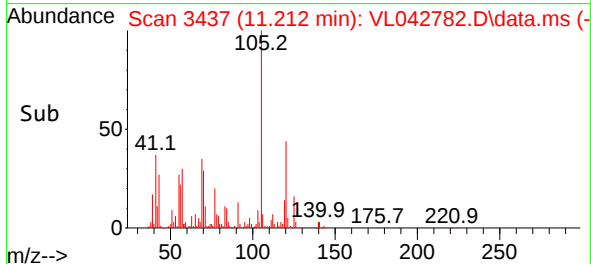
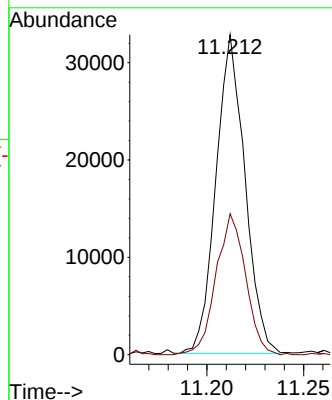
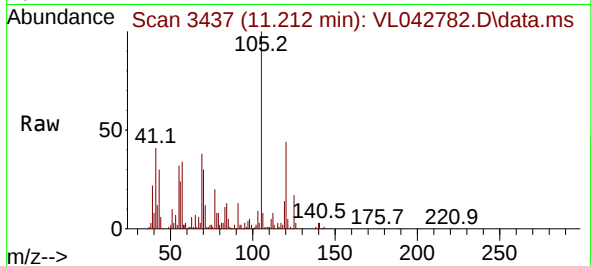
#73
 1,3,5-Trimethylbenzene
 Concen: 0.732 ppbv
 RT: 11.212 min Scan# 3437
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Tgt Ion:105 Resp: 3408
 Ion Ratio Lower Upper
 105 100
 120 44.2 37.8 56.8

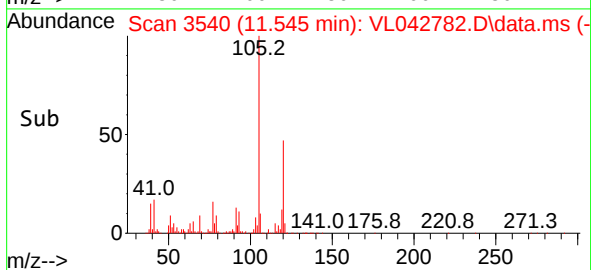
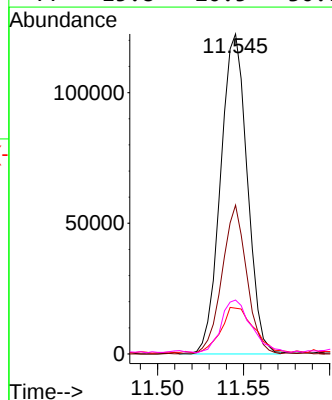
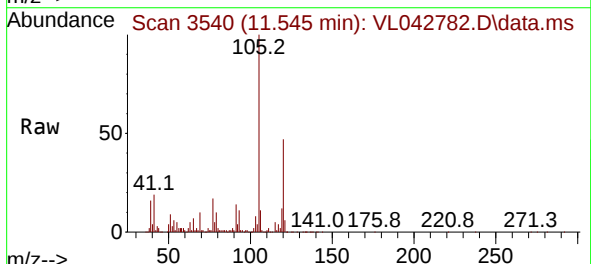
Manual Integrations
 APPROVED

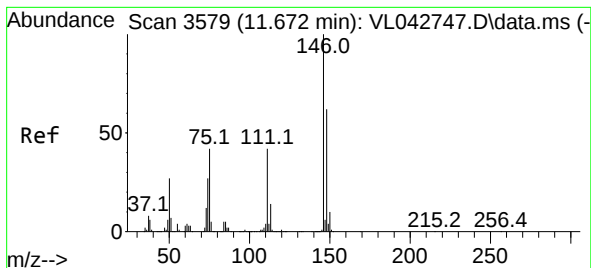
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#74
 1,2,4-Trimethylbenzene
 Concen: 2.598 ppbv
 RT: 11.545 min Scan# 3540
 Delta R.T. 0.010 min
 Lab File: VL042782.D
 Acq: 29 Jul 2025 14:24

Tgt Ion:105 Resp: 132016
 Ion Ratio Lower Upper
 105 100
 120 46.5 40.8 61.2
 91 13.8 53.0 79.4#
 77 15.8 20.5 30.7#





#76

1,4-Dichlorobenzene

Concen: 0.309 ppbv

RT: 11.681 min Scan# 3582

Delta R.T. 0.010 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Instrument :

MSVOA_L

ClientSampleId :

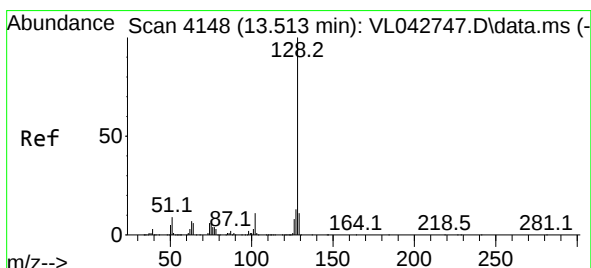
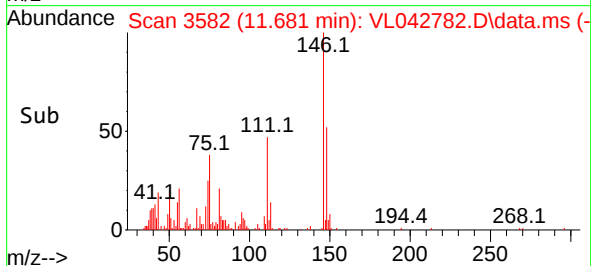
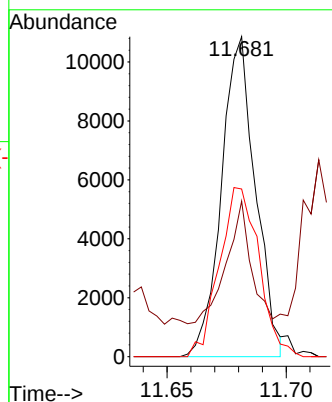
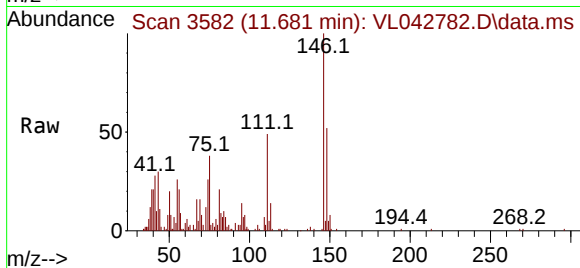
IA2

Tgt Ion:	146	Resp:	10764
Ion Ratio	Lower	Upper	
146	100		
111	44.2	21.4	64.2
148	61.6	32.1	96.3

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#79

Naphthalene

Concen: 0.697 ppbv

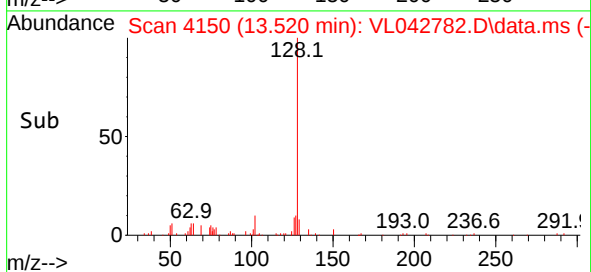
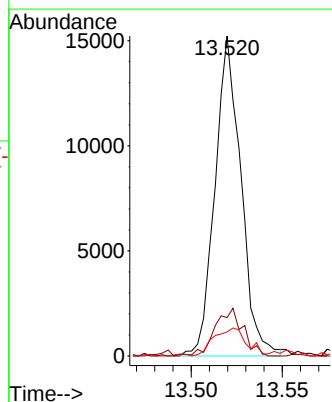
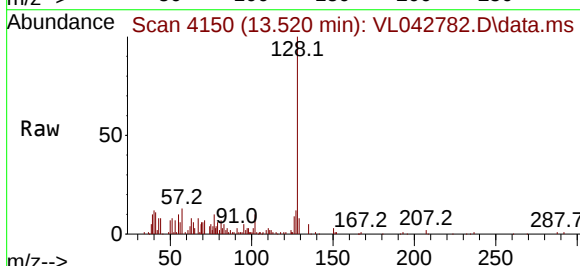
RT: 13.520 min Scan# 4150

Delta R.T. 0.006 min

Lab File: VL042782.D

Acq: 29 Jul 2025 14:24

Tgt Ion:	128	Resp:	15108
Ion Ratio	Lower	Upper	
128	100		
127	12.0	10.5	15.7
129	7.0	8.6	13.0



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	IA3	SDG No.:	Q2712
Lab Sample ID:	Q2712-05	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
VL042784.D	1		07/29/25 15:35	vl072925

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
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.070	0.47		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	149000		2.79			
540-36-3	1,4-Difluorobenzene	413000		3.965			
3114-55-4	Chlorobenzene-d5	370000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042784.D
 Acq On : 29 Jul 2025 15:35
 Operator : SY/MD
 Sample : Q2712-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:13:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	149475	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	412836	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	369597	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	302994	10.352	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	10053	0.509	ppbv	98
3) Chlorodifluoromethane	1.473	51	25597m	0.994	ppbv	
4) Chloromethane	1.531	50	5685	0.711	ppbv	91
5) Vinyl Chloride	1.577	62	291	0.037	ppbv #	78
9) Propene	1.483	41	6451m	0.689	ppbv	
10) Heptane	4.991	43	10495m	0.416	ppbv	
11) Trichlorofluoromethane	1.881	101	7217	0.354	ppbv	89
13) Ethanol	1.725	45	904849	1326.987	ppbv	92
15) Acetone	1.839	43	419725	20.335	ppbv	99
19) Isopropyl Alcohol	1.890	45	67692	6.172	ppbv #	1
25) Ethyl Acetate	2.842	43	274388	6.006	ppbv #	90
29) Chloroform	2.852	83	106698	3.445	ppbv	97
34) 2-Butanone	2.564	43	32223	1.102	ppbv	99
35) Carbon Tetrachloride	3.771	117	6342	0.207	ppbv	98
36) Benzene	3.664	78	10145	0.259	ppbv	94
41) Tetrahydrofuran	3.065	42	6611	0.444	ppbv #	56
44) 2,2,4-Trimethylpentane	4.651	57	9313	0.146	ppbv #	70
50) 4-Methyl-2-Pentanone	5.771	43	51635	1.371	ppbv	99
52) Tetrachloroethene	8.241	164	1176m	0.073	ppbv	
53) Toluene	6.943	91	59133	1.407	ppbv	100
58) Ethyl Benzene	9.364	91	8223	0.141	ppbv #	82
59) m/p-Xylene	9.535	91	27817m	0.596	ppbv	
60) o-Xylene	9.972	91	15404	0.330	ppbv	94
61) Styrene	9.882	104	16256	0.829	ppbv	93
64) n-propylbenzene	10.998	120	5296	0.295	ppbv	96
69) p-Isopropyltoluene	11.931	119	27703	0.391	ppbv #	94
72) 4-Ethyltoluene	11.128	105	25180	0.452	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.209	105	28346	0.618	ppbv	94
74) 1,2,4-Trimethylbenzene	11.542	105	99678	1.994	ppbv #	62
76) 1,4-Dichlorobenzene	11.678	146	7100	0.207	ppbv	89
79) Naphthalene	13.520	128	15482	0.708	ppbv #	95

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

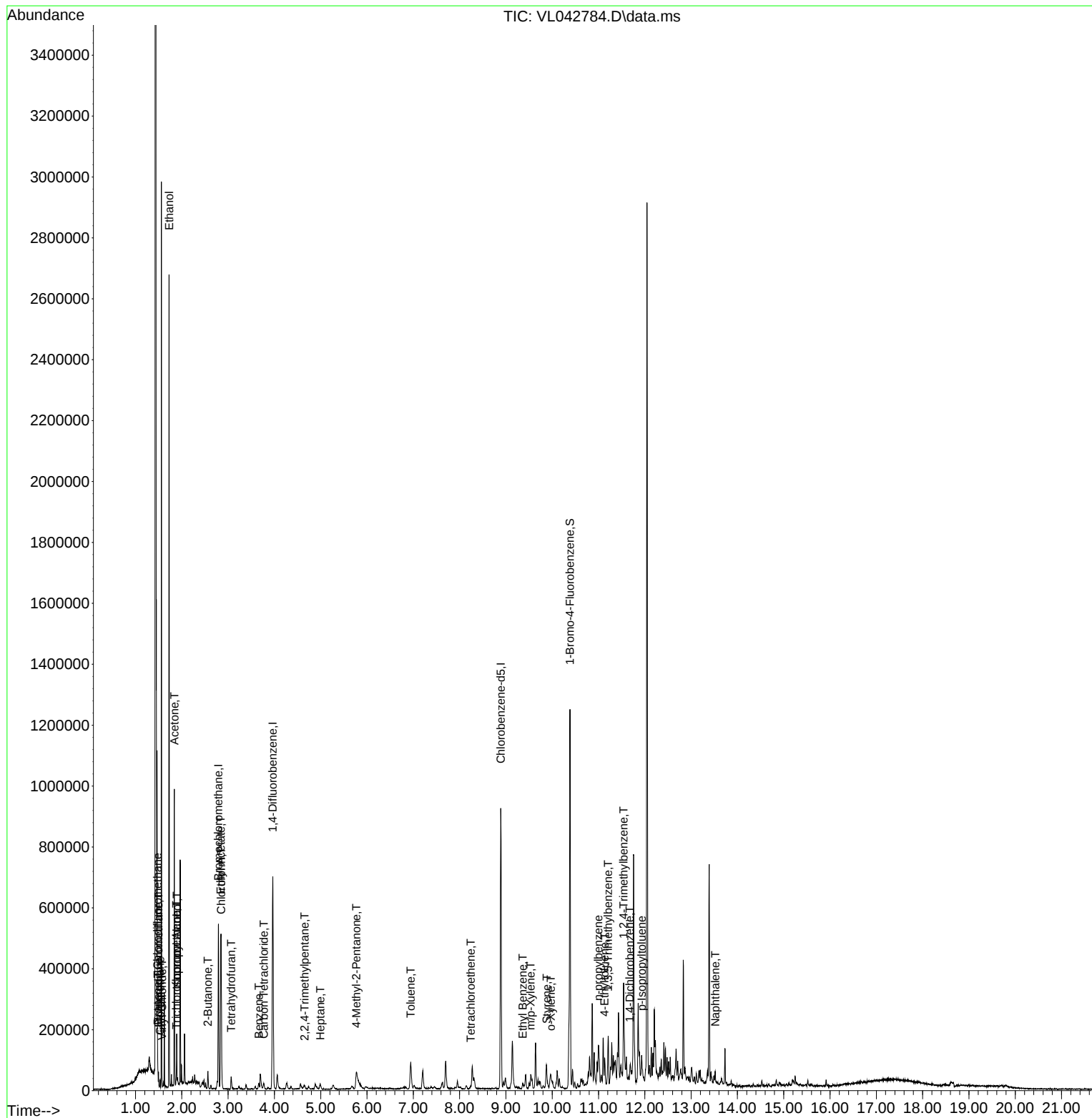
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042784.D
Acq On : 29 Jul 2025 15:35
Operator : SY/MD
Sample : Q2712-05
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

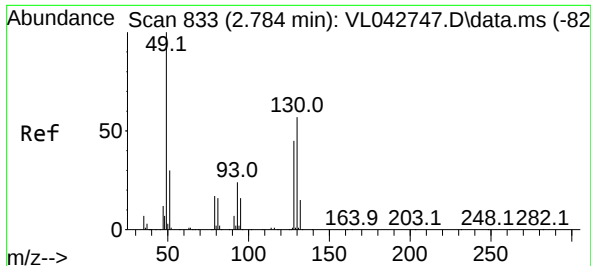
Instrument :
MSVOA_L
ClientSampleId :
IA3

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

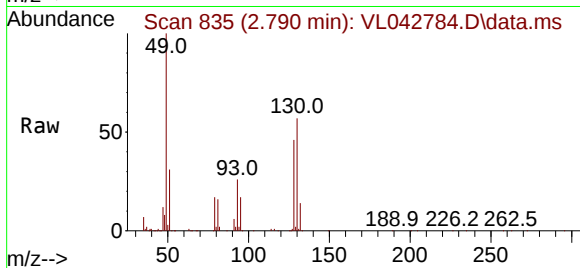
Quant Time: Jul 30 01:13:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.006 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

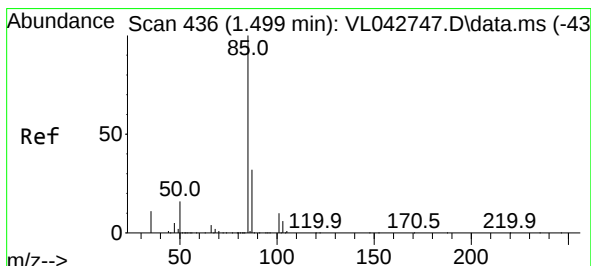
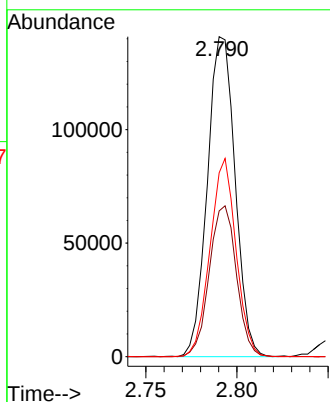
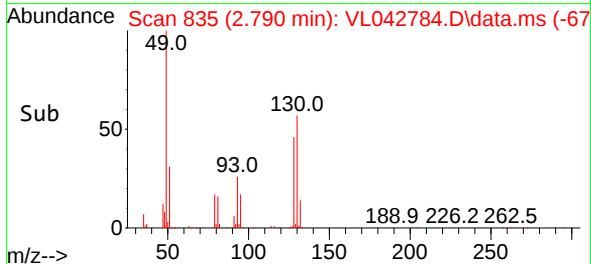
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 49 Resp: 149475
Ion Ratio Lower Upper
49 100
128 46.1 23.6 71.0
130 58.0 30.3 90.8

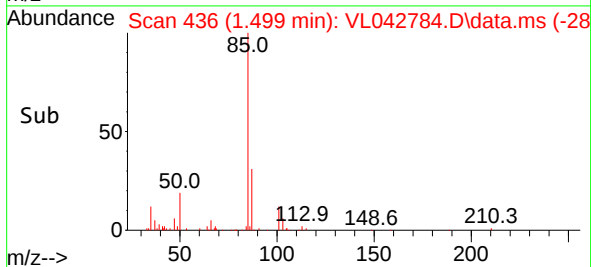
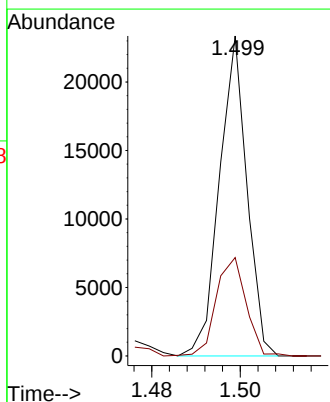
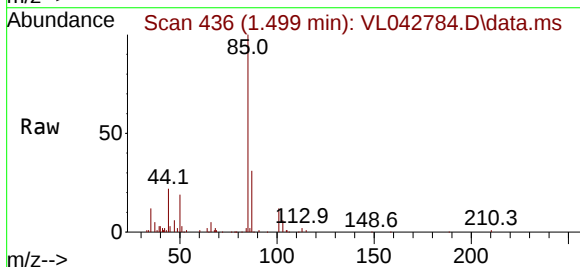
Manual Integrations
APPROVED

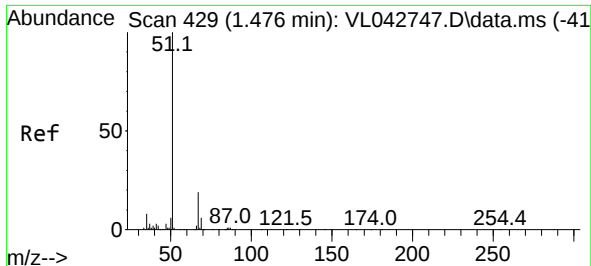
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.509 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

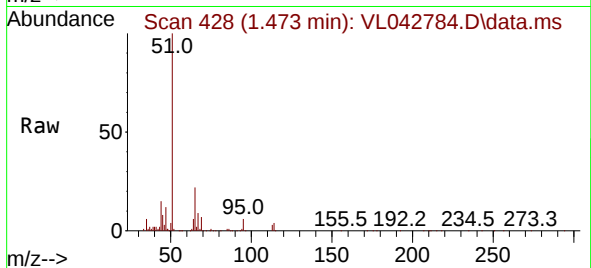
Tgt Ion: 85 Resp: 10053
Ion Ratio Lower Upper
85 100
87 30.5 25.4 38.2





#3
Chlorodifluoromethane
Concen: 0.994 ppbv m
RT: 1.473 min Scan# 429
Delta R.T. -0.003 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

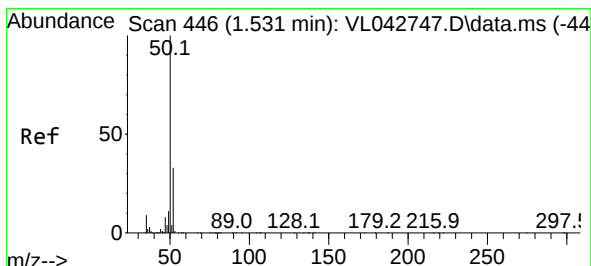
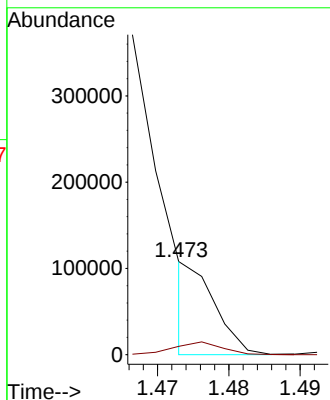
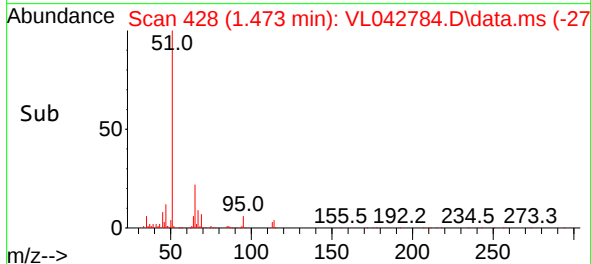
Instrument :
MSVOA_L
ClientSampleId :
IA3



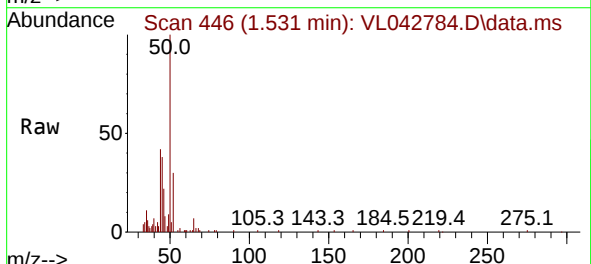
Tgt Ion: 51 Resp: 25597
Ion Ratio Lower Upper
51 100
67 28.2 15.0 22.6

Manual Integrations
APPROVED

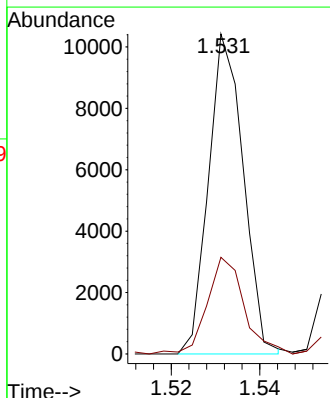
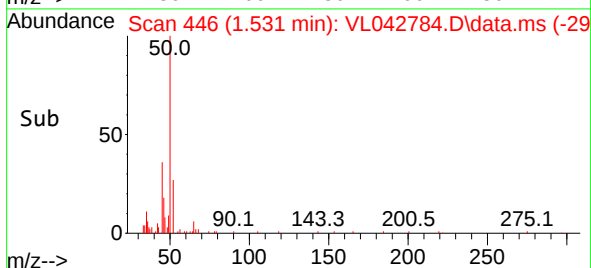
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

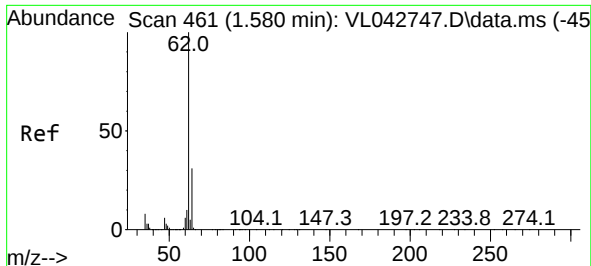


#4
Chloromethane
Concen: 0.711 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35



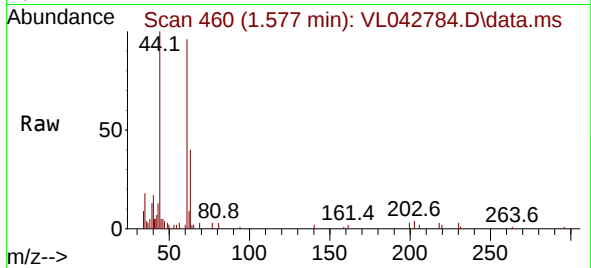
Tgt Ion: 50 Resp: 5685
Ion Ratio Lower Upper
50 100
52 28.1 26.6 40.0





#5
 Vinyl Chloride
 Concen: 0.037 ppbv
 RT: 1.577 min Scan# 460
 Delta R.T. -0.003 min
 Lab File: VL042784.D
 Acq: 29 Jul 2025 15:35

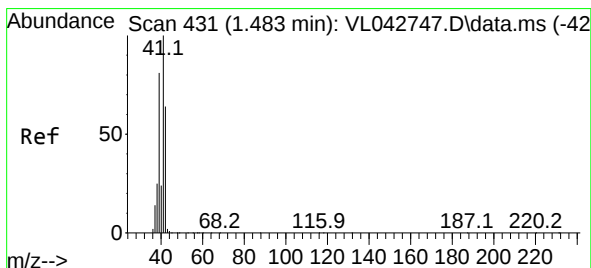
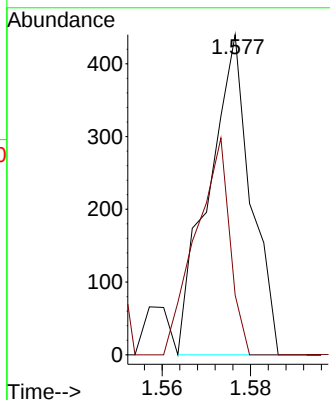
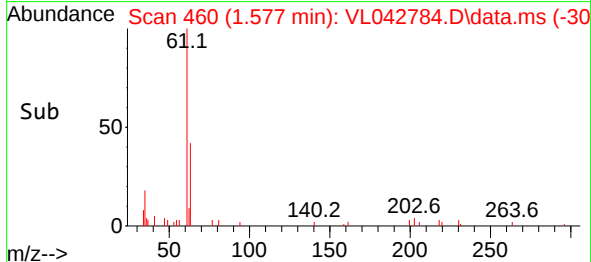
Instrument :
 MSVOA_L
 ClientSampleId :
 IA3



Tgt Ion: 62 Resp: 29
 Ion Ratio Lower Upper
 62 100
 64 18.6 24.5 36.7

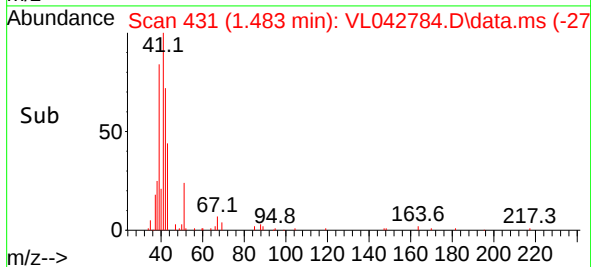
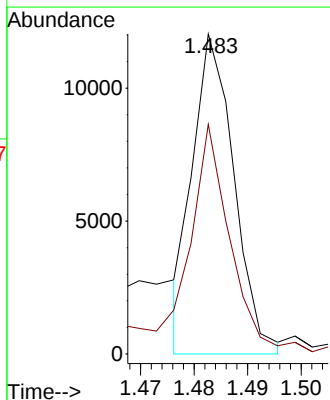
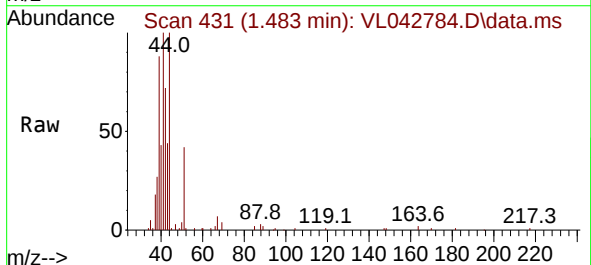
Manual Integrations
 APPROVED

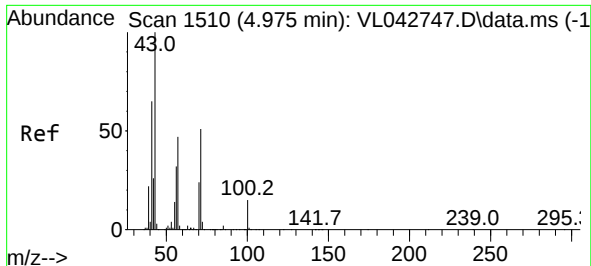
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#9
 Propene
 Concen: 0.689 ppbv m
 RT: 1.483 min Scan# 431
 Delta R.T. -0.000 min
 Lab File: VL042784.D
 Acq: 29 Jul 2025 15:35

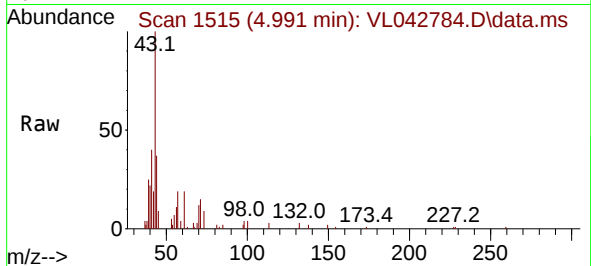
Tgt Ion: 41 Resp: 6451
 Ion Ratio Lower Upper
 41 100
 42 3229.9 53.2 79.8#





#10
Heptane
Concen: 0.416 ppbv m
RT: 4.991 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

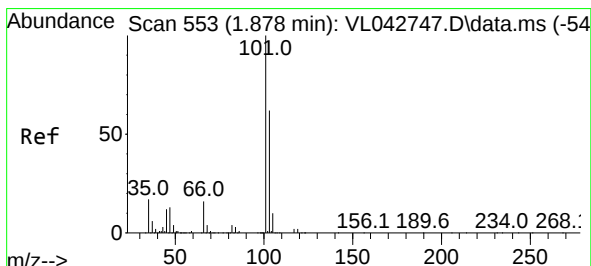
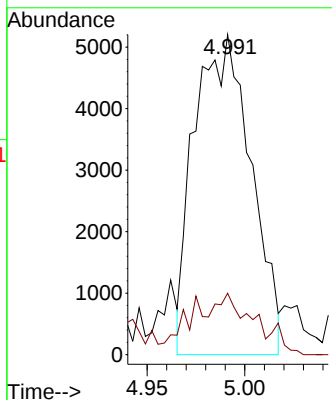
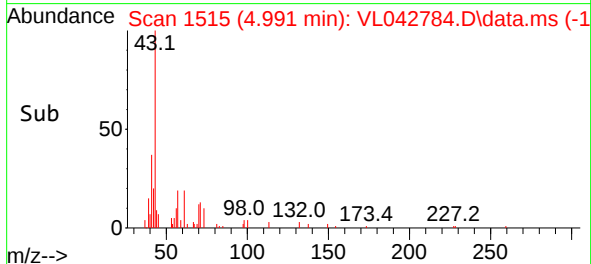
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 43 Resp: 1049
Ion Ratio Lower Upper
43 100
57 0.0 39.9 59.9

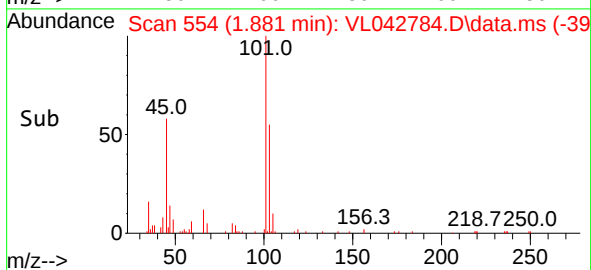
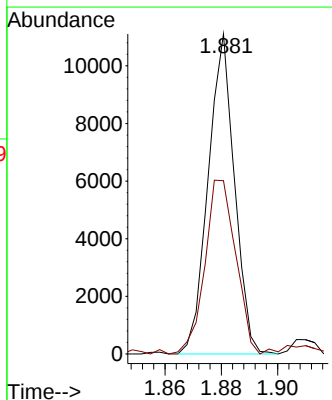
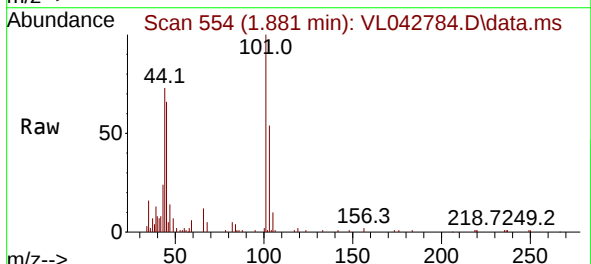
Manual Integrations
APPROVED

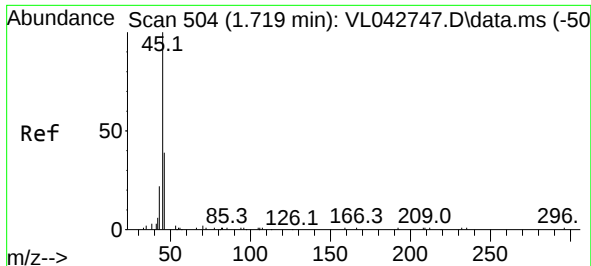
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#11
Trichlorofluoromethane
Concen: 0.354 ppbv
RT: 1.881 min Scan# 554
Delta R.T. 0.003 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

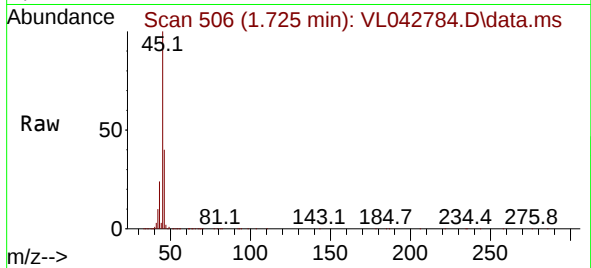
Tgt Ion:101 Resp: 7217
Ion Ratio Lower Upper
101 100
103 53.5 49.6 74.4





#13
Ethanol
Concen: 1326.987 ppbv
RT: 1.725 min Scan# 504
Delta R.T. 0.006 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

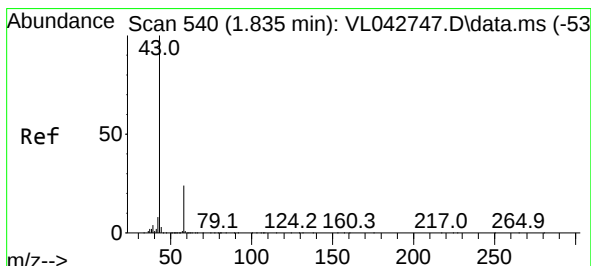
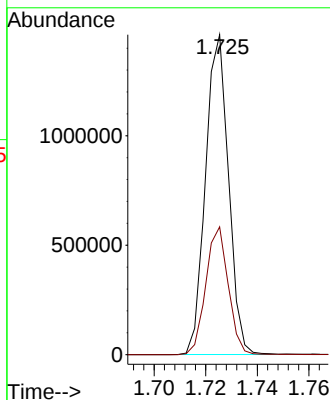
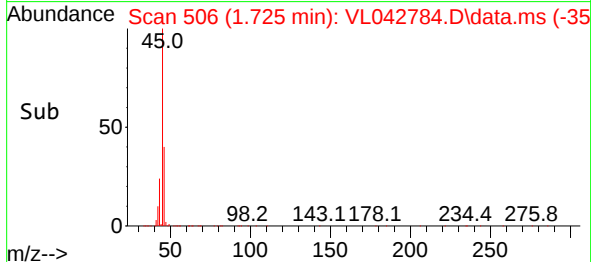
Instrument :
MSVOA_L
ClientSampleId :
IA3



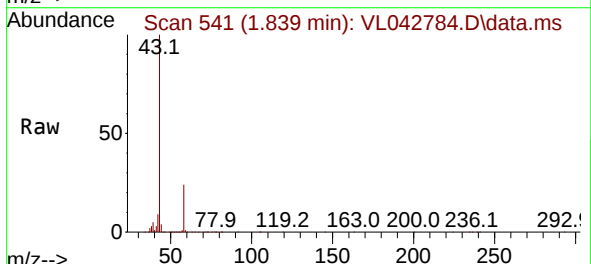
Tgt Ion: 45 Resp: 904849
Ion Ratio Lower Upper
45 100
46 39.3 17.8 71.4

Manual Integrations
APPROVED

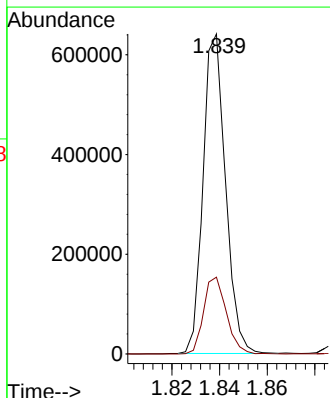
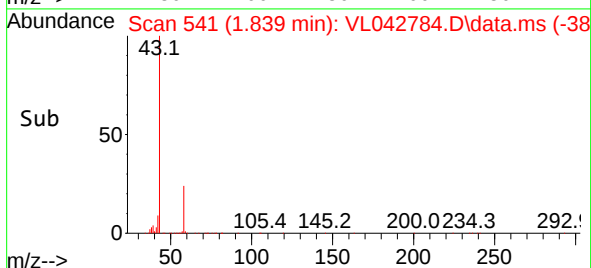
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

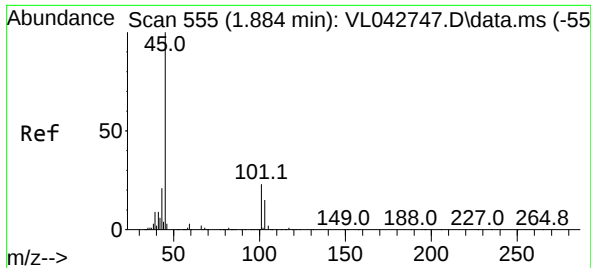


#15
Acetone
Concen: 20.335 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35



Tgt Ion: 43 Resp: 419725
Ion Ratio Lower Upper
43 100
58 24.5 19.8 29.8





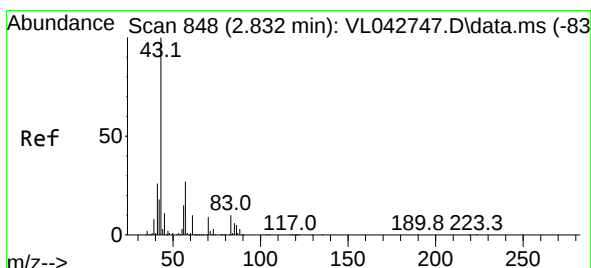
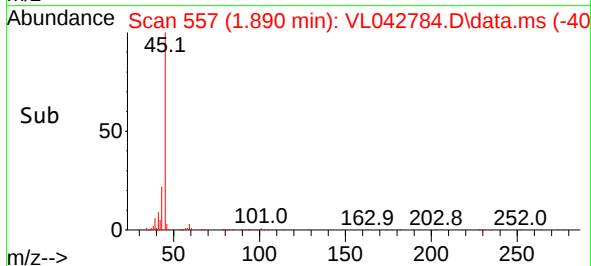
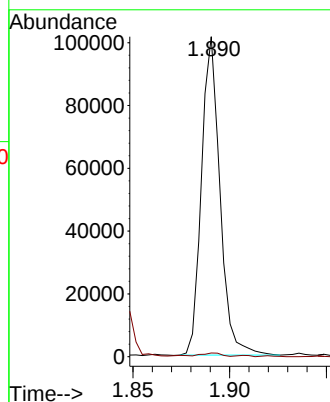
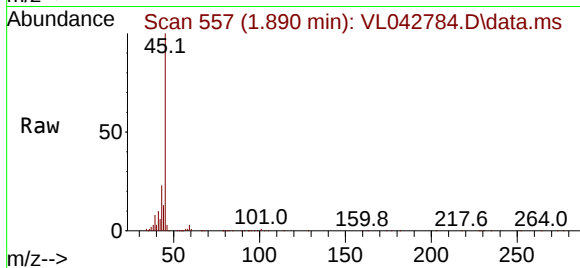
#19
Isopropyl Alcohol
Concen: 6.172 ppbv
RT: 1.890 min Scan# 511
Delta R.T. 0.006 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 45 Resp: 67692
Ion Ratio Lower Upper
45 100
58 151.7 30.0 45.0

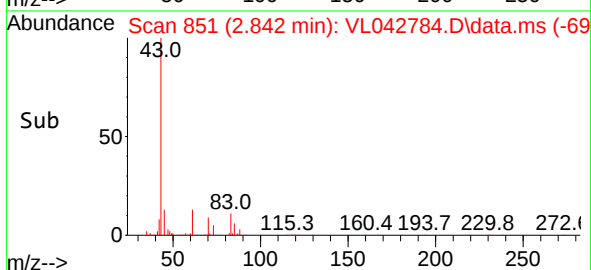
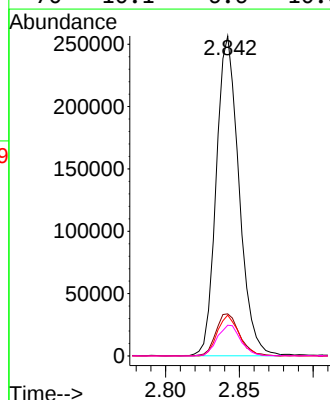
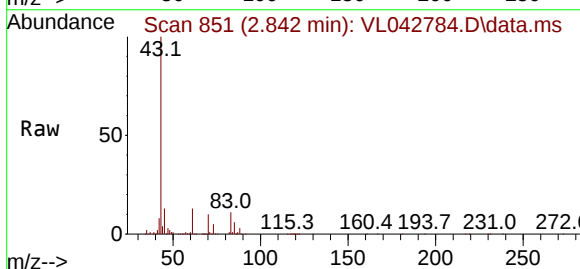
Manual Integrations
APPROVED

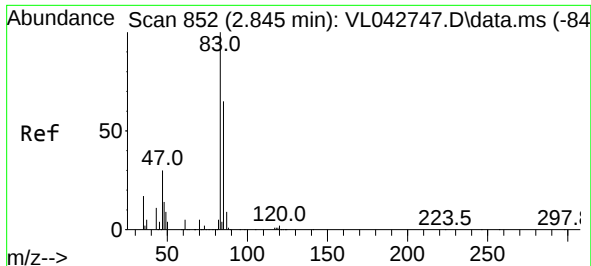
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#25
Ethyl Acetate
Concen: 6.006 ppbv
RT: 2.842 min Scan# 851
Delta R.T. 0.010 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

Tgt Ion: 43 Resp: 274388
Ion Ratio Lower Upper
43 100
45 14.1 7.8 11.6#
61 12.3 6.7 10.1#
70 10.1 6.6 10.0#





#29

Chloroform

Concen: 3.445 ppbv

RT: 2.852 min Scan# 852

Delta R.T. 0.006 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA3

Tgt Ion: 83 Resp: 106698

Ion Ratio Lower Upper

83 100

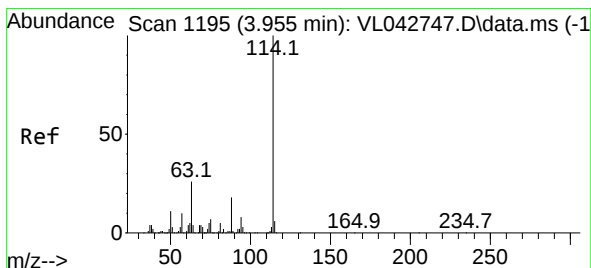
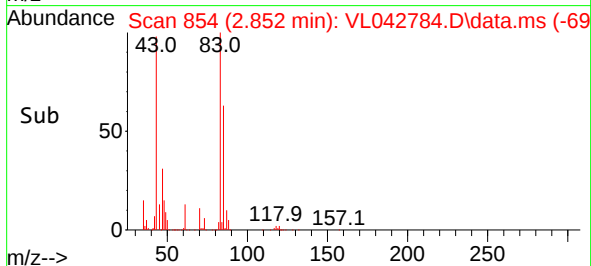
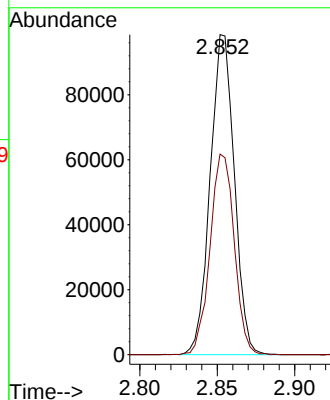
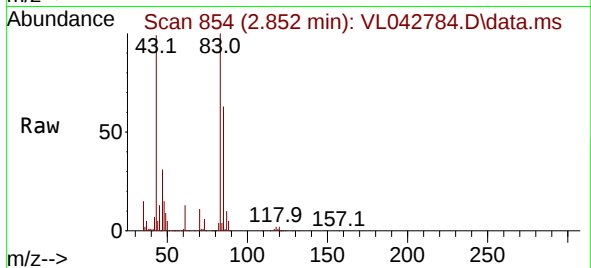
85 62.7 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

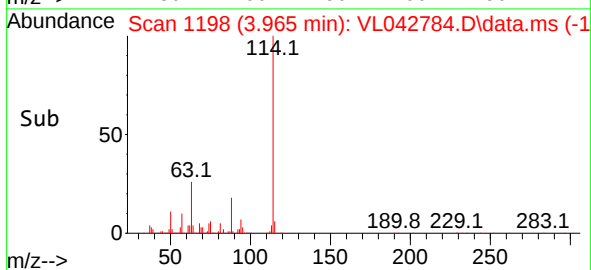
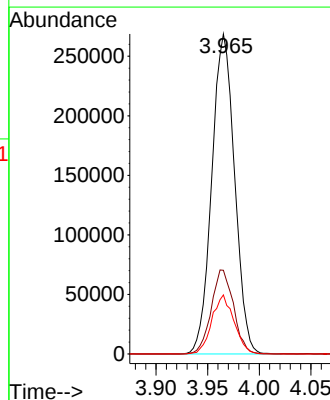
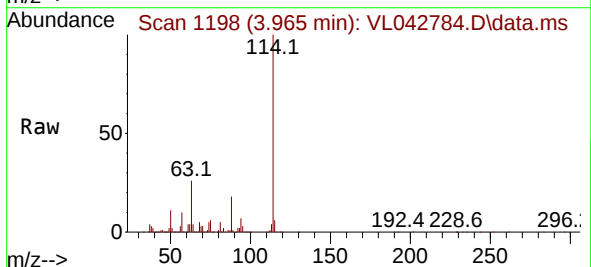
Tgt Ion:114 Resp: 412836

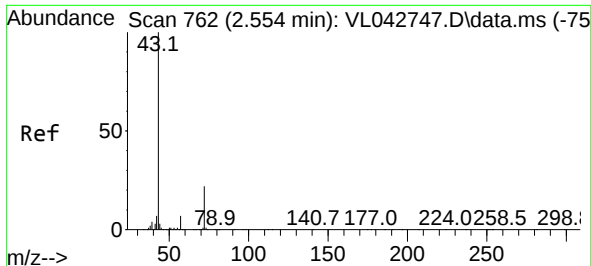
Ion Ratio Lower Upper

114 100

63 25.7 20.5 30.7

88 17.9 14.0 21.0





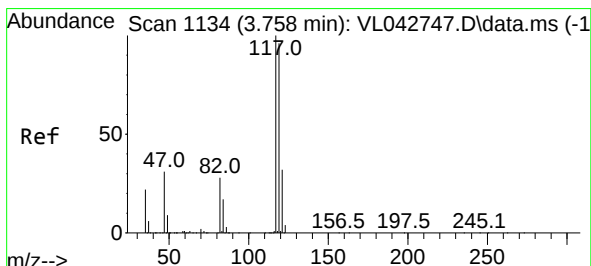
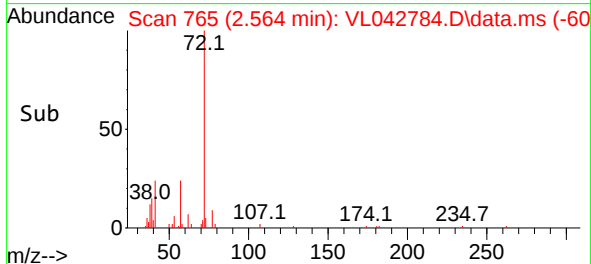
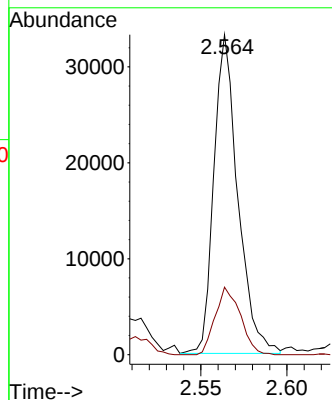
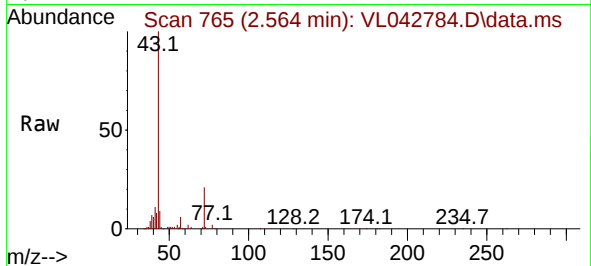
#34
2-Butanone
Concen: 1.102 ppbv
RT: 2.564 min Scan# 762
Delta R.T. 0.010 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 43 Resp: 3222
Ion Ratio Lower Upper
43 100
72 22.2 17.4 26.0

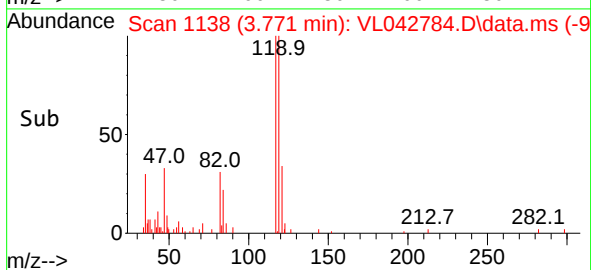
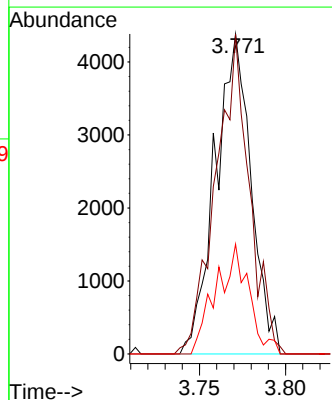
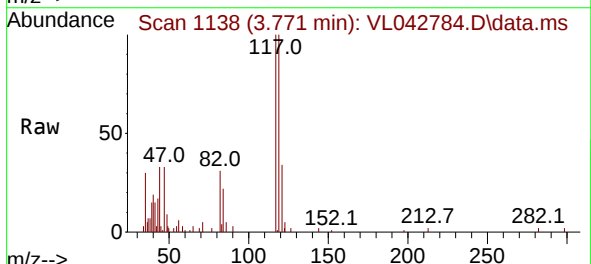
Manual Integrations
APPROVED

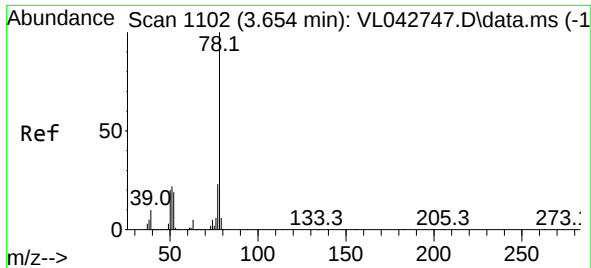
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#35
Carbon Tetrachloride
Concen: 0.207 ppbv
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

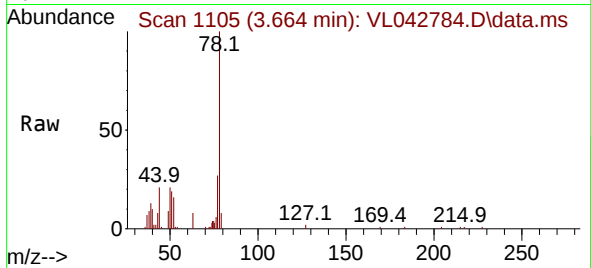
Tgt Ion:117 Resp: 6342
Ion Ratio Lower Upper
117 100
119 98.0 77.1 115.7
121 34.3 25.5 38.3





#36
Benzene
Concen: 0.259 ppbv
RT: 3.664 min Scan# 1102
Delta R.T. 0.010 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

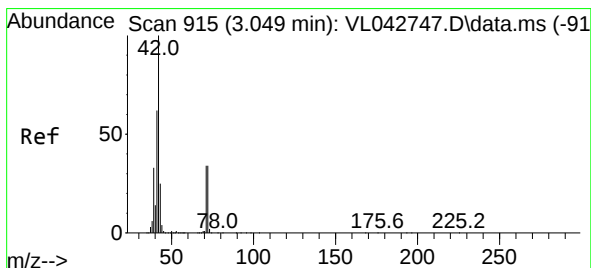
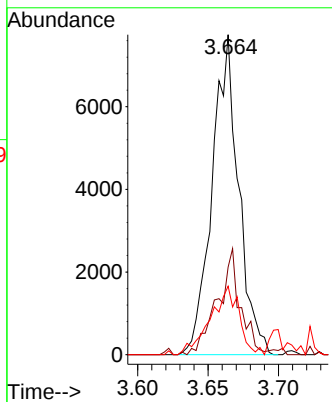
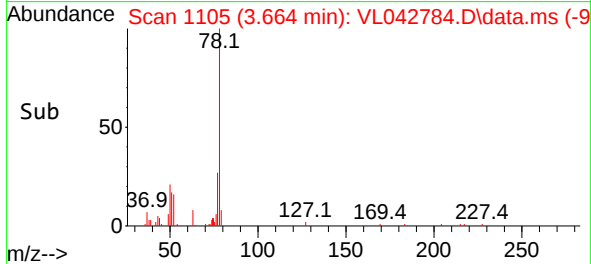
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 78 Resp: 1014
Ion Ratio Lower Upper
78 100
77 27.3 18.5 27.7
50 21.4 16.2 24.2

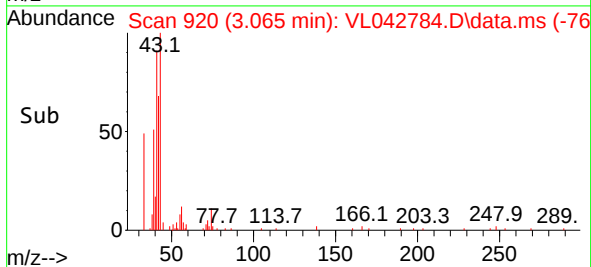
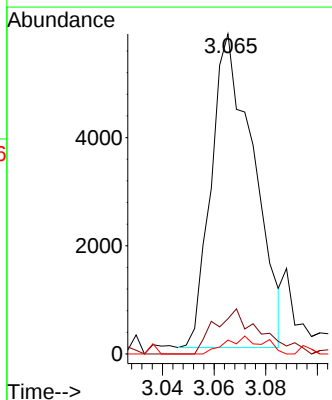
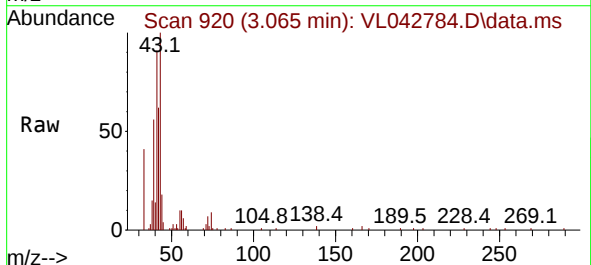
Manual Integrations
APPROVED

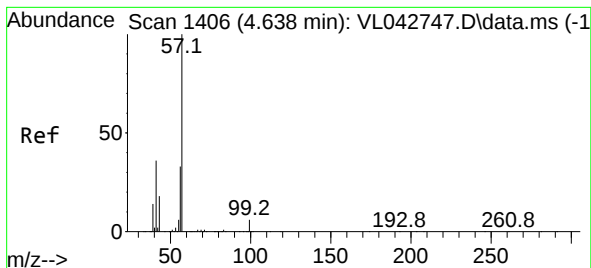
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#41
Tetrahydrofuran
Concen: 0.444 ppbv
RT: 3.065 min Scan# 920
Delta R.T. 0.016 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

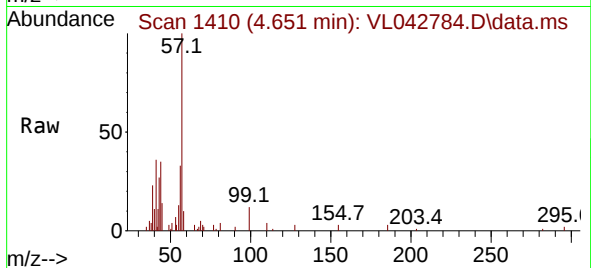
Tgt Ion: 42 Resp: 6611
Ion Ratio Lower Upper
42 100
72 16.2 30.9 46.3#
71 5.9 28.6 43.0#





#44
2,2,4-Trimethylpentane
Concen: 0.146 ppbv
RT: 4.651 min Scan# 1406
Delta R.T. 0.013 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

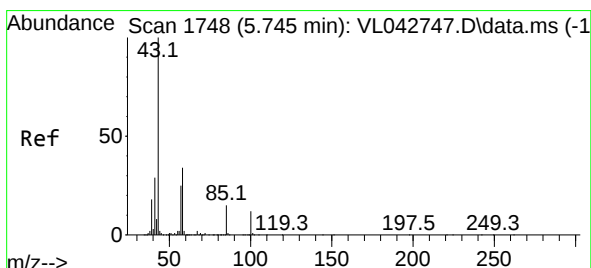
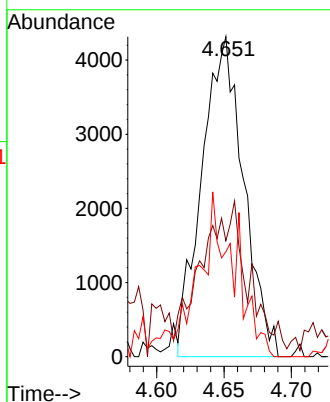
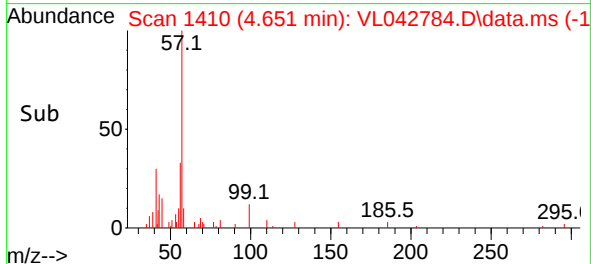
Instrument :
MSVOA_L
ClientSampleId :
IA3



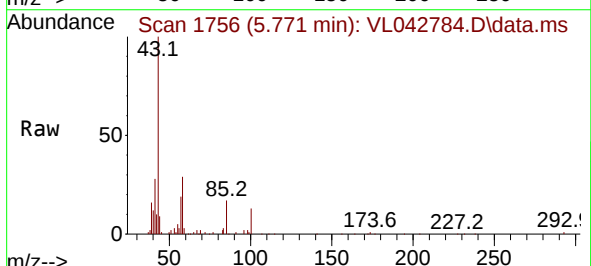
Tgt Ion: 57 Resp: 931
Ion Ratio Lower Upper
57 100
41 51.1 28.3 42.5
56 50.9 25.8 38.6

Manual Integrations
APPROVED

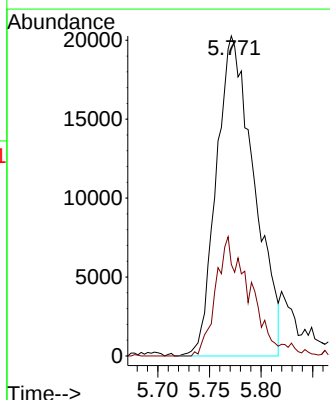
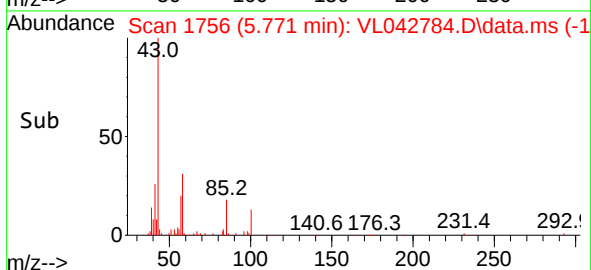
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

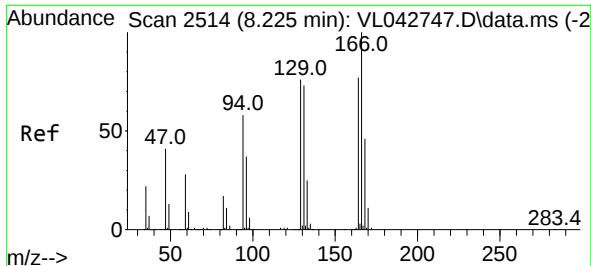


#50
4-Methyl-2-Pentanone
Concen: 1.371 ppbv
RT: 5.771 min Scan# 1756
Delta R.T. 0.026 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35



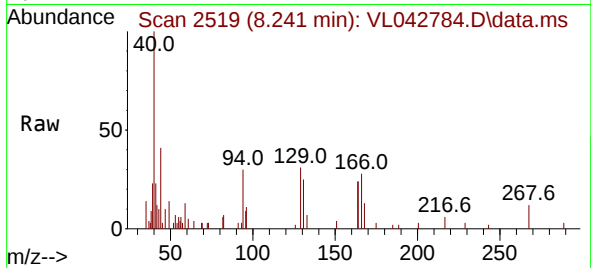
Tgt Ion: 43 Resp: 51635
Ion Ratio Lower Upper
43 100
58 34.4 27.8 41.8





#52
Tetrachloroethene
Concen: 0.073 ppbv m
RT: 8.241 min Scan# 2118
Delta R.T. 0.016 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

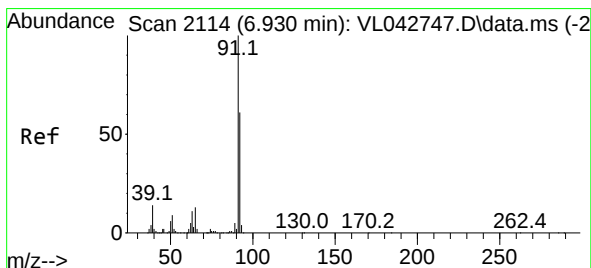
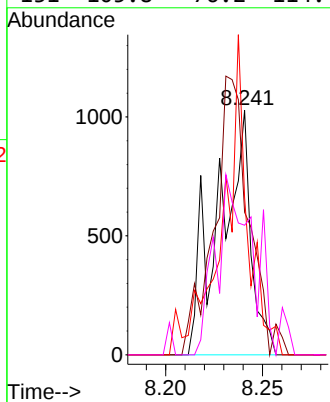
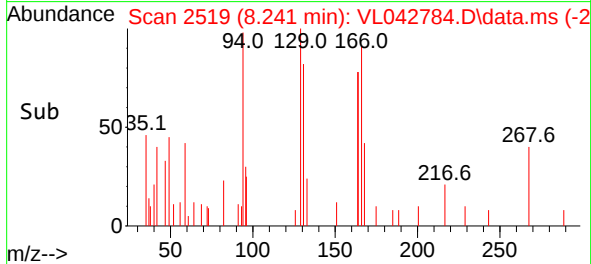
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:164 Resp: 1170
Ion Ratio Lower Upper
164 100
166 116.3 104.0 156.0
129 128.3 79.2 118.8
131 105.8 76.2 114.4

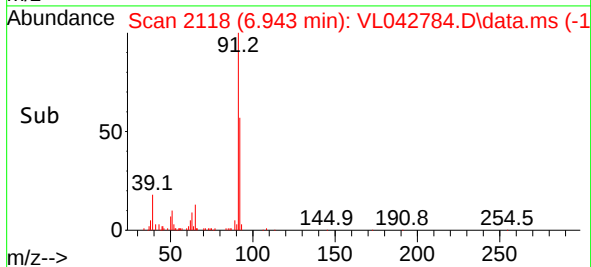
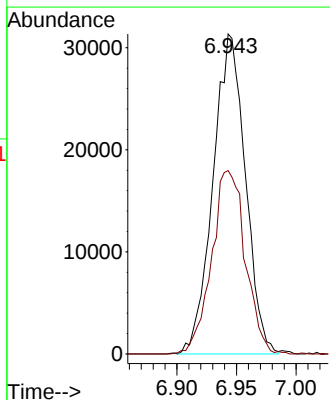
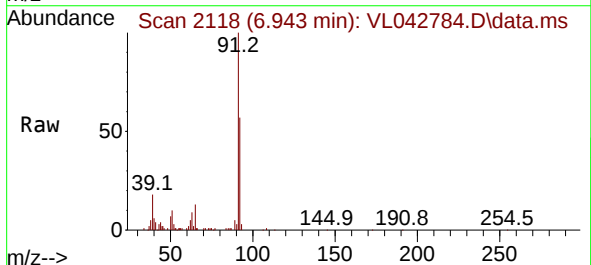
Manual Integrations
APPROVED

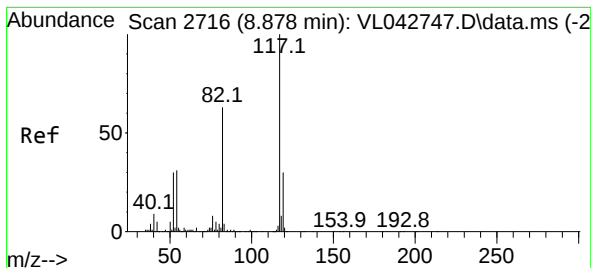
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 1.407 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

Tgt Ion: 91 Resp: 59133
Ion Ratio Lower Upper
91 100
92 59.7 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

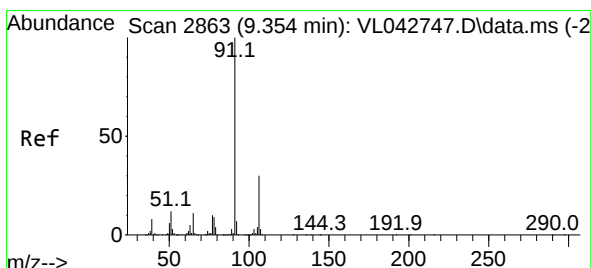
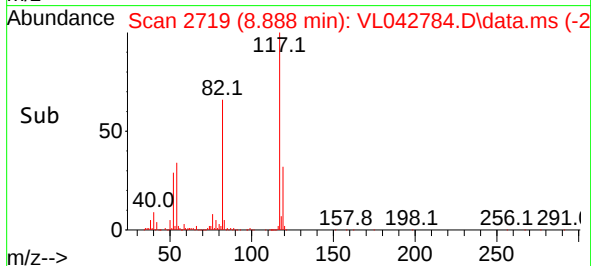
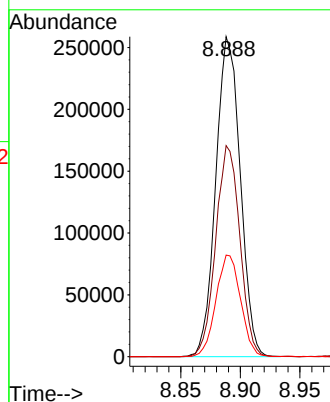
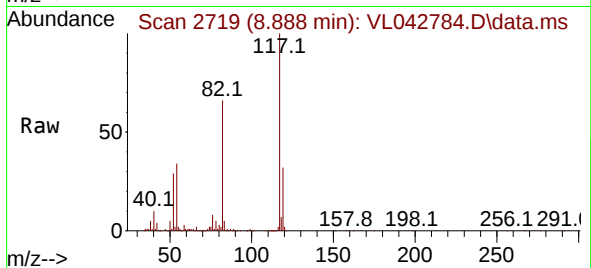
IA3

Tgt Ion:117 Resp: 36959
 Ion Ratio Lower Upper
 117 100
 82 65.1 53.3 79.9
 119 31.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#58

Ethyl Benzene

Concen: 0.141 ppbv

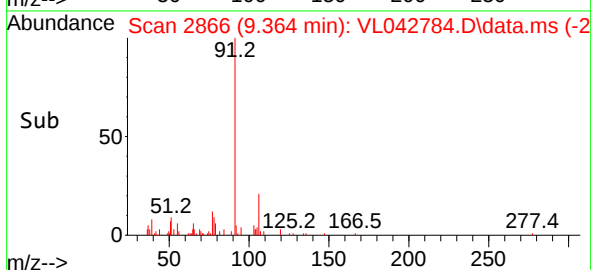
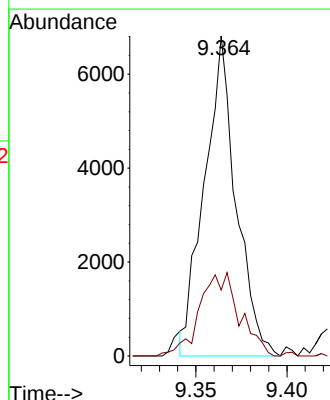
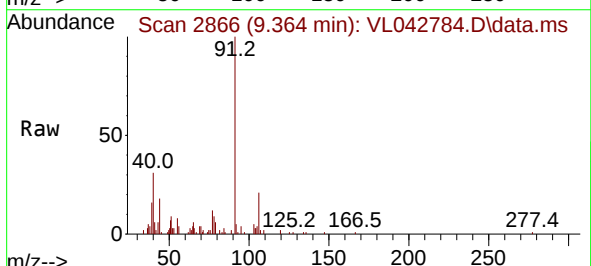
RT: 9.364 min Scan# 2866

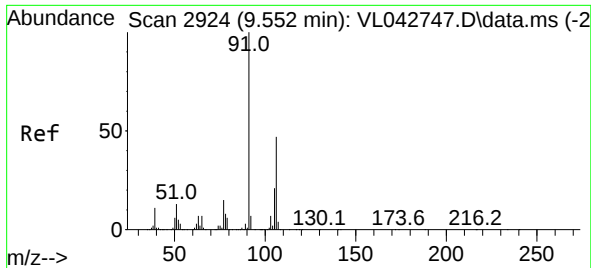
Delta R.T. 0.010 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Tgt Ion: 91 Resp: 8223
 Ion Ratio Lower Upper
 91 100
 106 19.8 23.8 35.6#





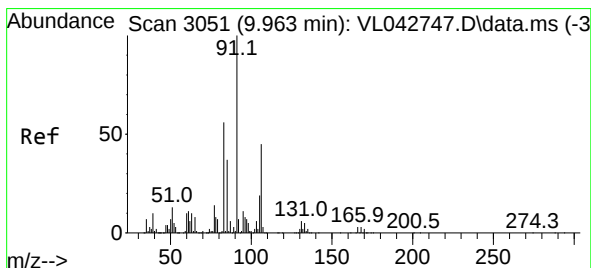
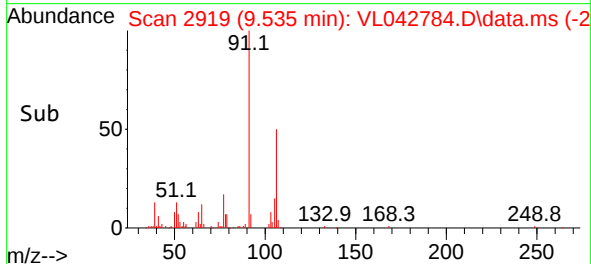
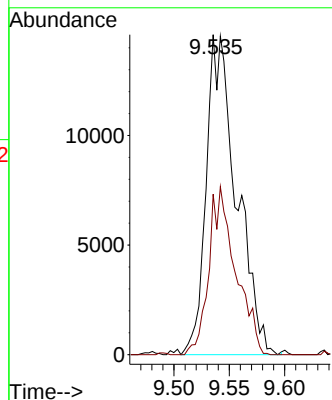
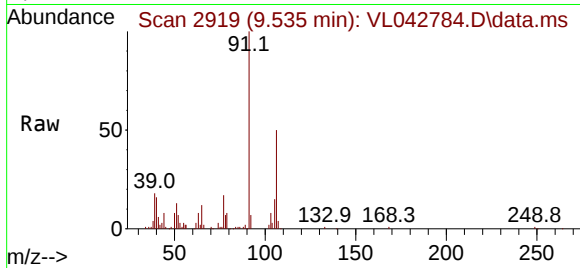
#59
m/p-Xylene
Concen: 0.596 ppbv m
RT: 9.535 min Scan# 2919
Delta R.T. -0.016 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 2781
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

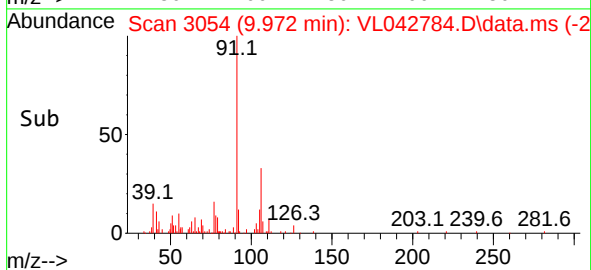
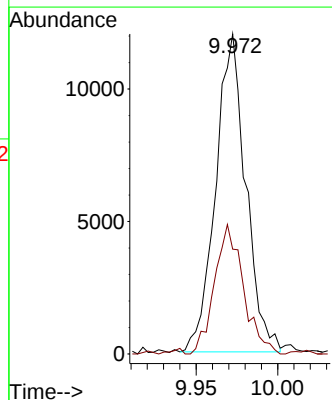
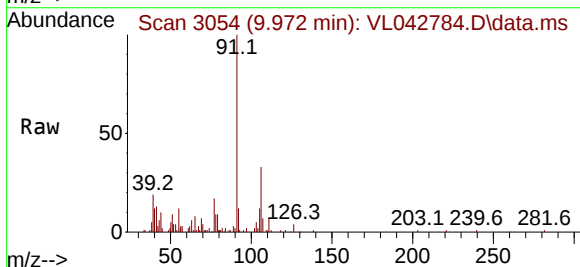
Manual Integrations
APPROVED

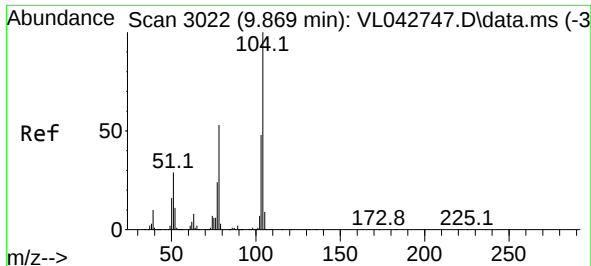
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#60
o-Xylene
Concen: 0.330 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

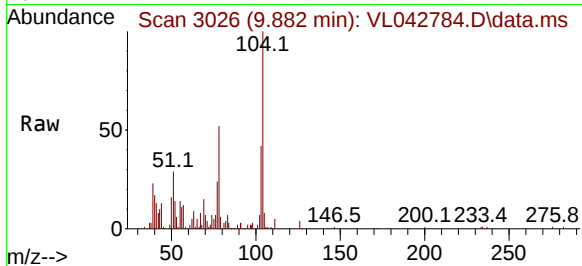
Tgt Ion: 91 Resp: 15404
Ion Ratio Lower Upper
91 100
106 40.4 22.0 66.0





#61
Styrene
Concen: 0.829 ppbv
RT: 9.882 min Scan# 3026
Delta R.T. 0.013 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

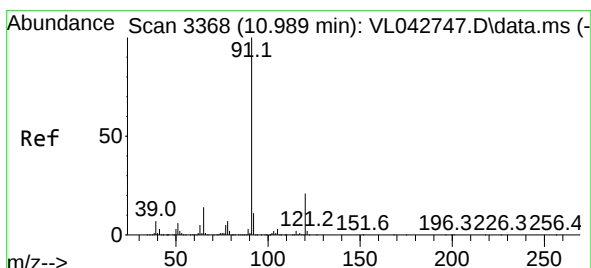
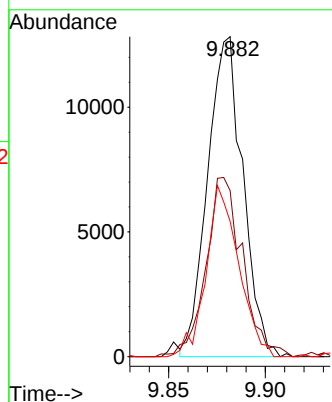
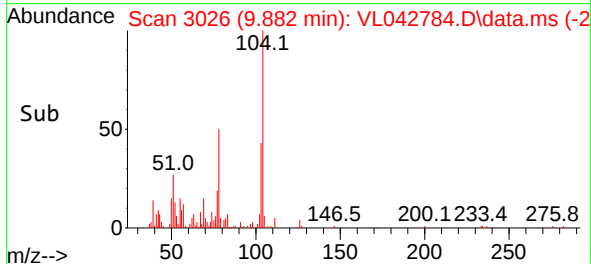
Instrument :
MSVOA_L
ClientSampleId :
IA3



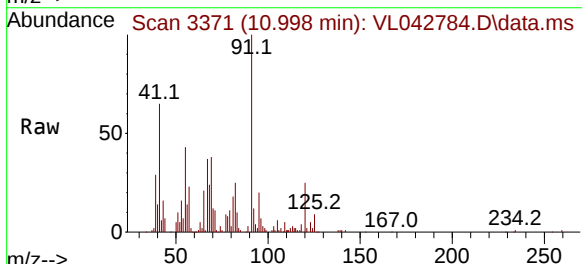
Tgt Ion:104 Resp: 16250
Ion Ratio Lower Upper
104 100
78 58.5 41.5 62.3
103 49.4 37.5 56.3

Manual Integrations
APPROVED

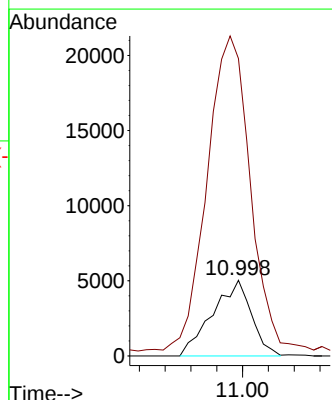
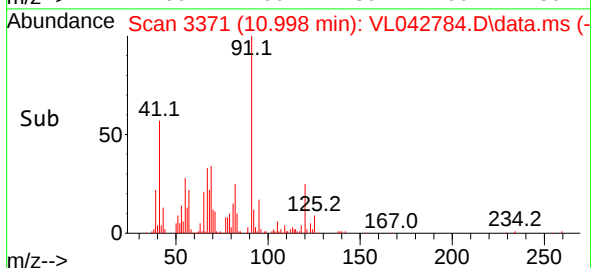
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

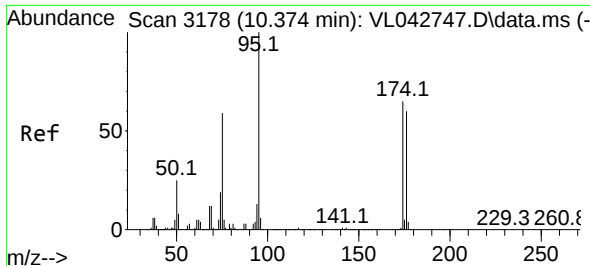


#64
n-propylbenzene
Concen: 0.295 ppbv
RT: 10.998 min Scan# 3371
Delta R.T. 0.010 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35



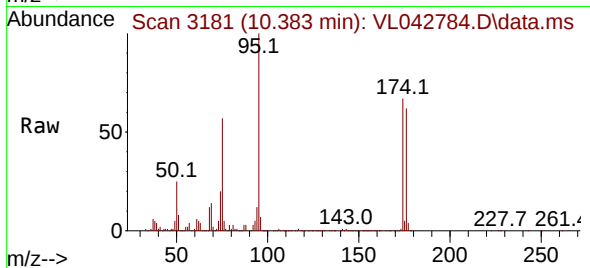
Tgt Ion:120 Resp: 5296
Ion Ratio Lower Upper
120 100
91 475.9 372.7 559.1





#68
1-Bromo-4-Fluorobenzene
Concen: 10.352 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

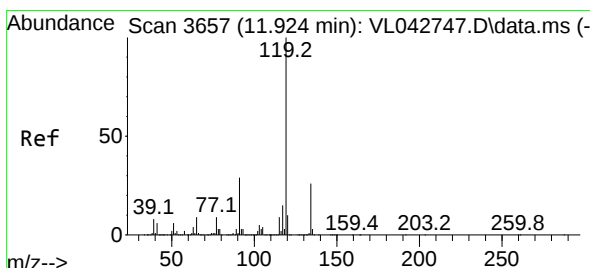
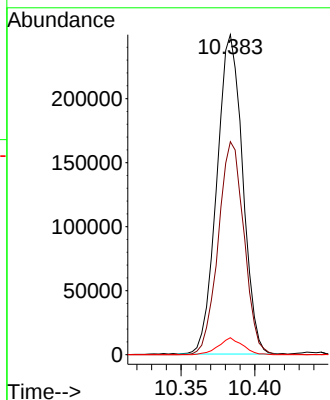
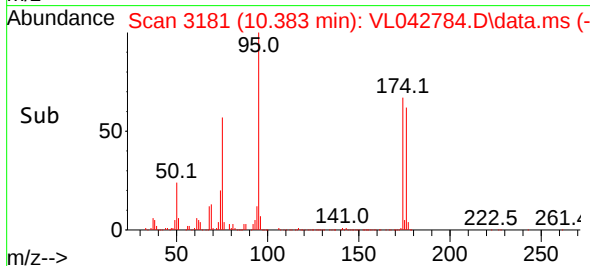
Instrument :
MSVOA_L
ClientSampleId :
IA3



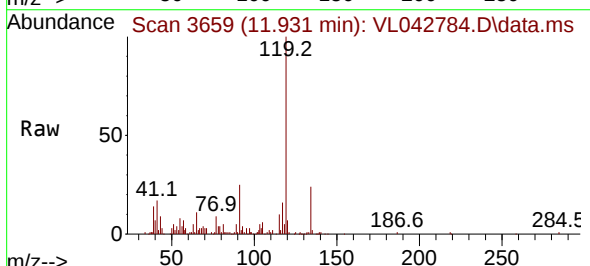
Tgt Ion: 95 Resp: 302994
Ion Ratio Lower Upper
95 100
174 66.9 53.8 80.6
175 4.9 4.0 6.0

Manual Integrations
APPROVED

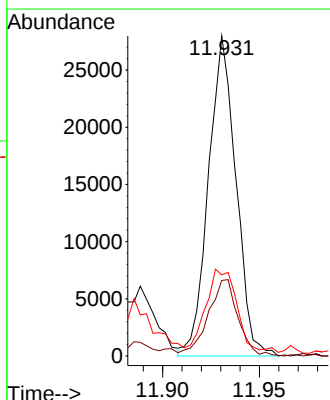
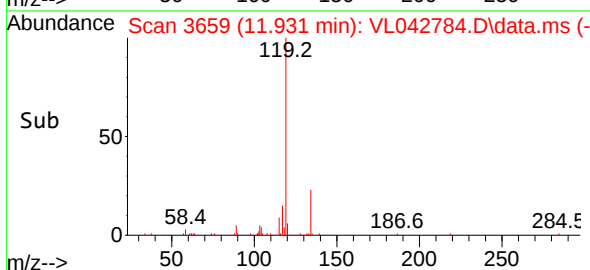
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

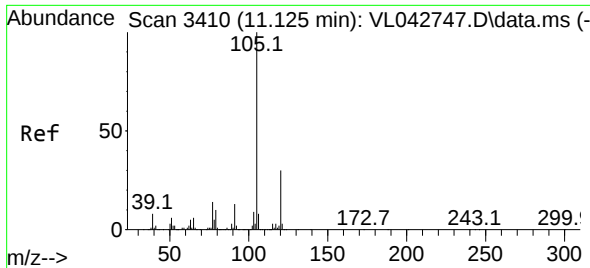


#69
p-Isopropyltoluene
Concen: 0.391 ppbv
RT: 11.931 min Scan# 3659
Delta R.T. 0.006 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35



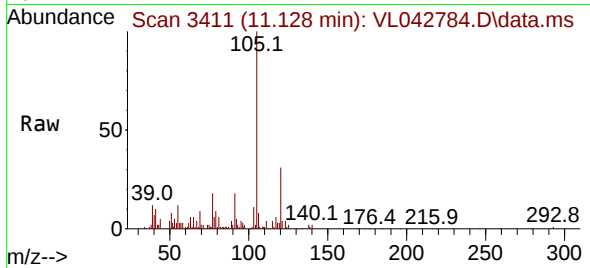
Tgt Ion:119 Resp: 27703
Ion Ratio Lower Upper
119 100
134 31.7 20.6 31.0#
91 29.4 23.2 34.8





#72
4-Ethyltoluene
Concen: 0.452 ppbv
RT: 11.128 min Scan# 3410
Delta R.T. 0.003 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35

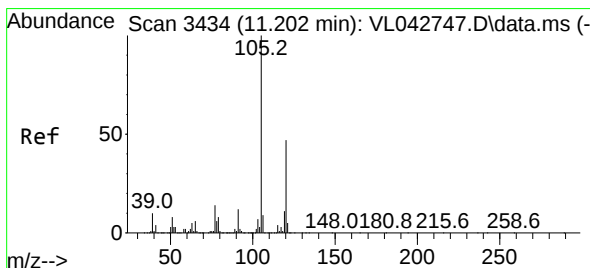
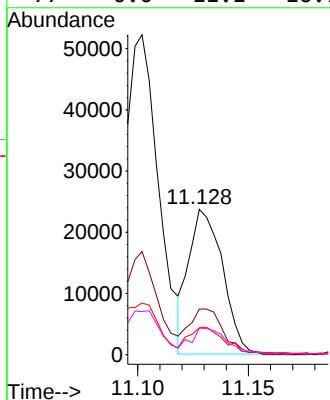
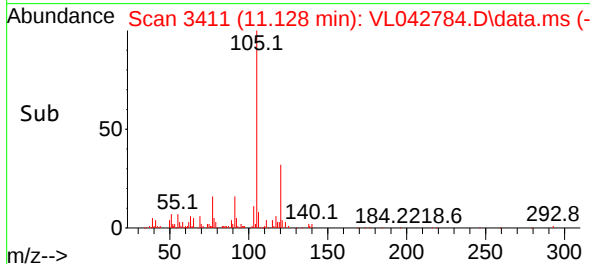
Instrument :
MSVOA_L
ClientSampleId :
IA3



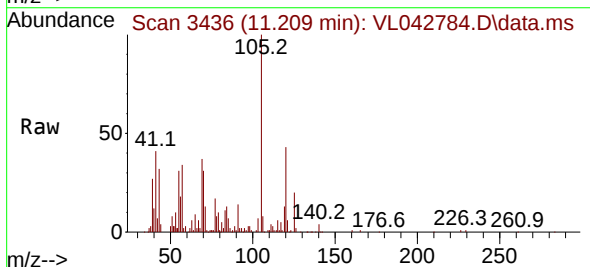
Tgt Ion:105 Resp: 25180
Ion Ratio Lower Upper
105 100
120 0.0 24.4 36.6
91 0.0 10.6 15.8
77 0.0 11.1 16.7#

Manual Integrations
APPROVED

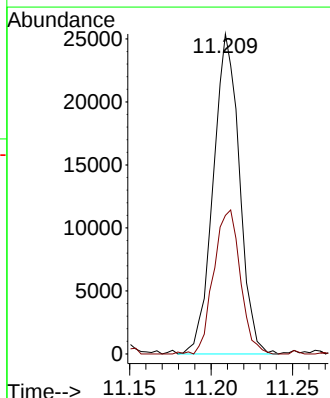
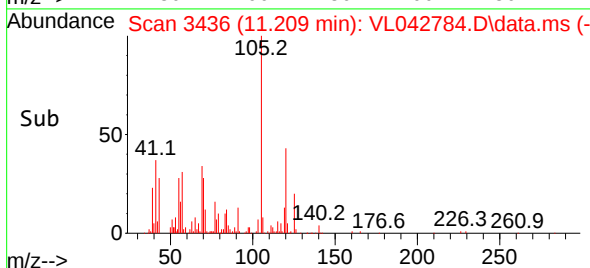
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

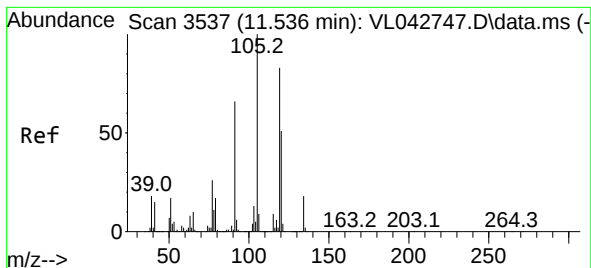


#73
1,3,5-Trimethylbenzene
Concen: 0.618 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.006 min
Lab File: VL042784.D
Acq: 29 Jul 2025 15:35



Tgt Ion:105 Resp: 28346
Ion Ratio Lower Upper
105 100
120 43.3 37.8 56.8





#74

1,2,4-Trimethylbenzene

Concen: 1.994 ppbv

RT: 11.542 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA3

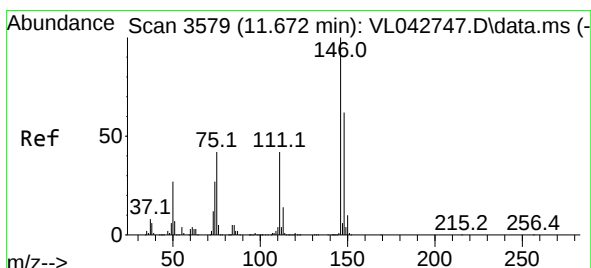
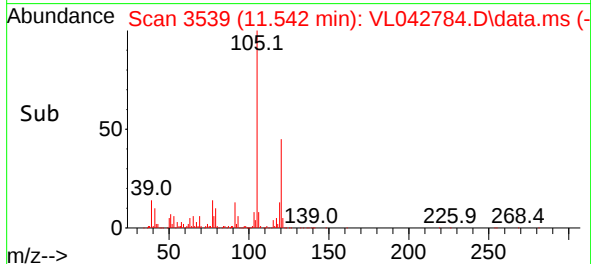
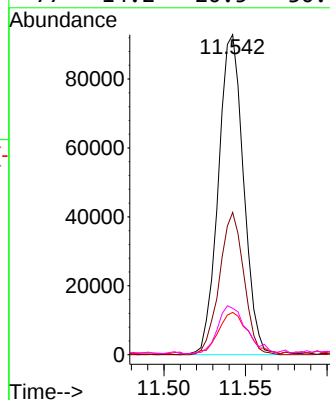
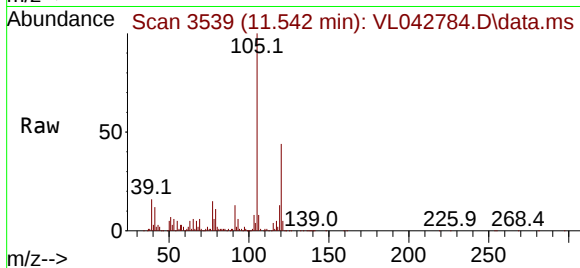
Tgt Ion:	105	Resp:	99678
Ion Ratio	Lower	Upper	
105	100		
120	44.5	40.8	61.2
91	12.8	53.0	79.4
77	14.2	20.5	30.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#76

1,4-Dichlorobenzene

Concen: 0.207 ppbv

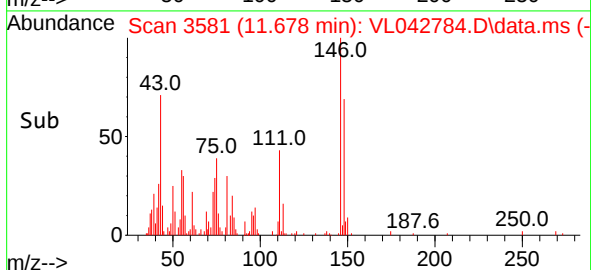
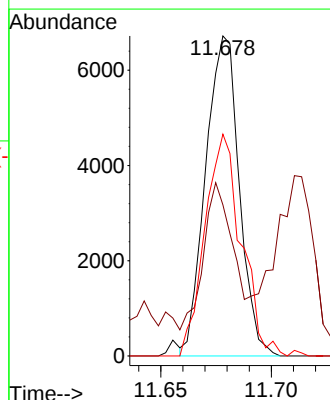
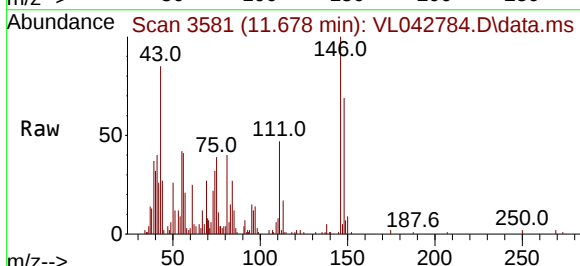
RT: 11.678 min Scan# 3581

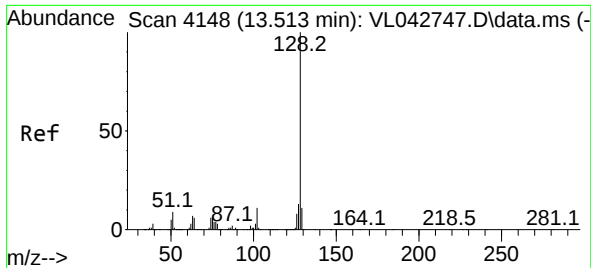
Delta R.T. 0.006 min

Lab File: VL042784.D

Acq: 29 Jul 2025 15:35

Tgt Ion:	146	Resp:	7100
Ion Ratio	Lower	Upper	
146	100		
111	47.0	21.4	64.2
148	75.5	32.1	96.3





#79

Naphthalene

Concen: 0.708 ppbv

RT: 13.520 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042784.D

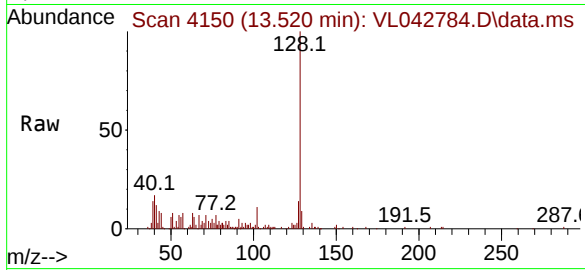
Acq: 29 Jul 2025 15:35

Instrument :

MSVOA_L

ClientSampleId :

IA3



Tgt Ion:128 Resp: 1548

Ion Ratio Lower Upper

128 100

127 14.3 10.5 15.7

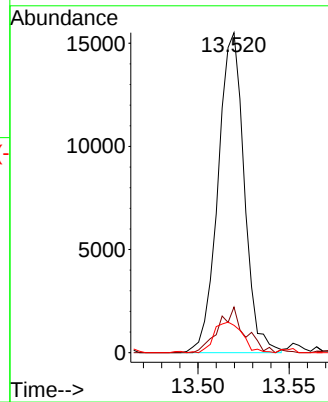
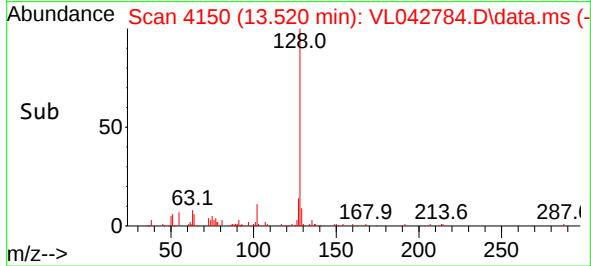
129 8.2 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	OA1	SDG No.:	Q2712
Lab Sample ID:	Q2712-06	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
VL042785.D	1		07/29/25 16:10	vl072925

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
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.050	0.34		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	150000		2.79			
540-36-3	1,4-Difluorobenzene	414000		3.965			
3114-55-4	Chlorobenzene-d5	366000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042785.D
 Acq On : 29 Jul 2025 16:10
 Operator : SY/MD
 Sample : Q2712-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
 Supervised By : Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:14:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	149534	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413656	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	365762	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	287317	9.919	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.200%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	9710	0.491	ppbv	96
3) Chlorodifluoromethane	1.476	51	11117m	0.432	ppbv	
4) Chloromethane	1.534	50	4905	0.613	ppbv #	82
9) Propene	1.486	41	14290m	1.527	ppbv	
10) Heptane	4.991	43	5720m	0.227	ppbv	
11) Trichlorofluoromethane	1.881	101	4847	0.238	ppbv	98
13) Ethanol	1.722	45	299258	437.926	ppbv	89
15) Acetone	1.839	43	162360	7.863	ppbv	99
19) Isopropyl Alcohol	1.890	45	51757	4.717	ppbv #	36
20) Methylene Chloride	2.065	84	4554	0.700	ppbv #	90
25) Ethyl Acetate	2.845	43	48188	1.054	ppbv #	87
29) Chloroform	2.852	83	15792	0.510	ppbv	98
34) 2-Butanone	2.564	43	16650	0.568	ppbv	97
35) Carbon Tetrachloride	3.771	117	2484m	0.081	ppbv	
36) Benzene	3.664	78	16885	0.431	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	13410m	0.210	ppbv	
52) Tetrachloroethene	8.238	164	761m	0.047	ppbv	
53) Toluene	6.946	91	31140	0.740	ppbv	99
58) Ethyl Benzene	9.367	91	6131m	0.106	ppbv	
59) m/p-Xylene	9.539	91	14022m	0.304	ppbv	
60) o-Xylene	9.972	91	5849	0.127	ppbv	92
74) 1,2,4-Trimethylbenzene	11.542	105	14560	0.294	ppbv #	60
79) Naphthalene	13.520	128	3153	0.491	ppbv	96

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

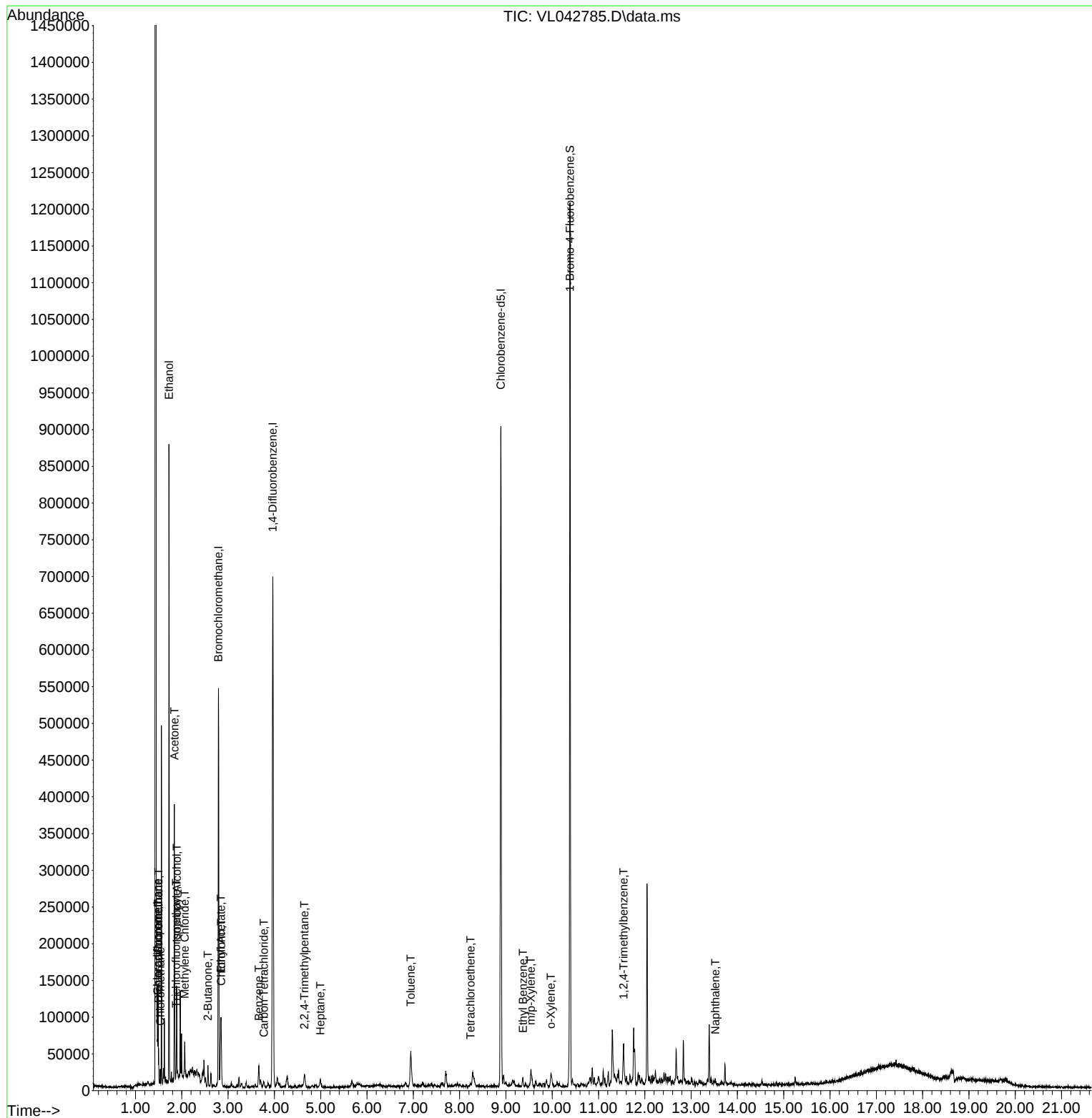
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Acq On : 29 Jul 2025 16:10
Operator : SY/MD
Sample : Q2712-06
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

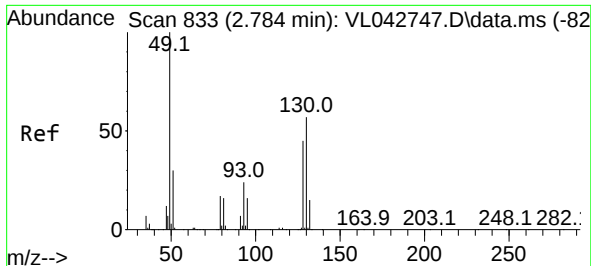
Instrument :
MSVOA_L
ClientSampleId :
OA1

Quant Time: Jul 30 01:14:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
Supervised By : Mahesh Dadoda 07/30/2025





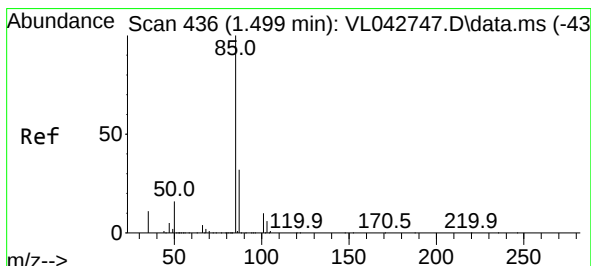
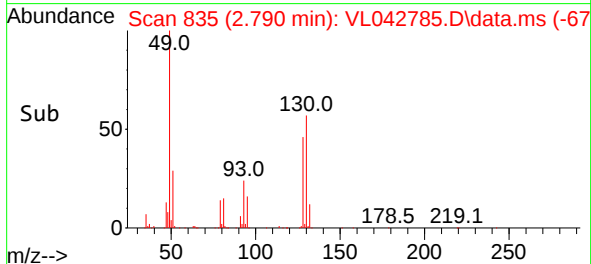
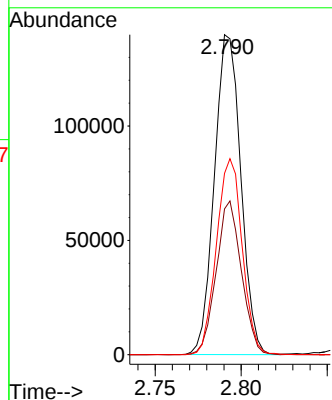
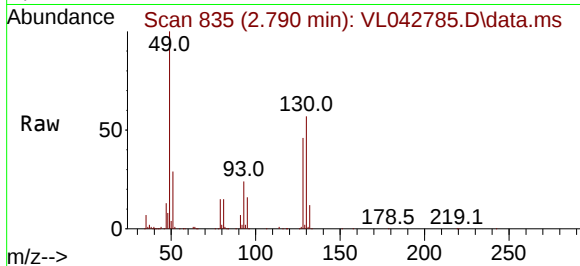
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 49 Resp: 149534
Ion Ratio Lower Upper
49 100
128 46.0 23.6 71.0
130 59.8 30.3 90.8

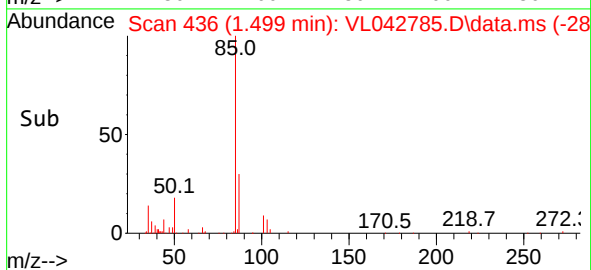
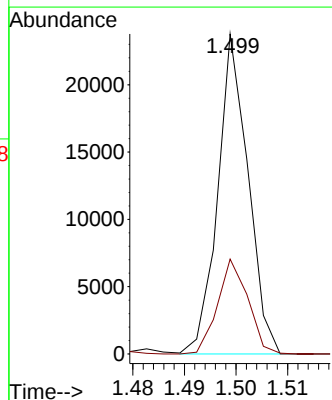
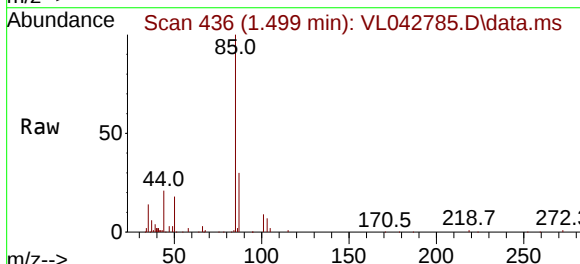
Manual Integrations
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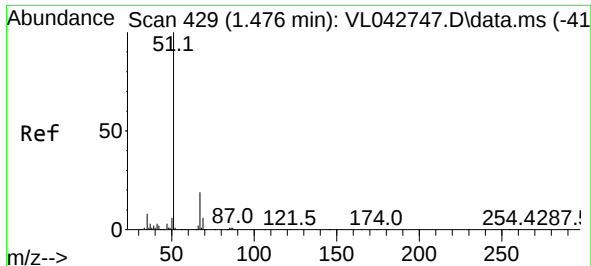
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.491 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion: 85 Resp: 9710
Ion Ratio Lower Upper
85 100
87 29.7 25.4 38.2





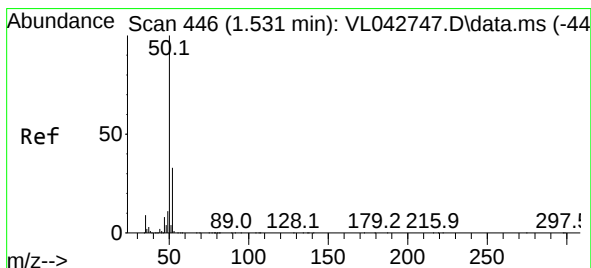
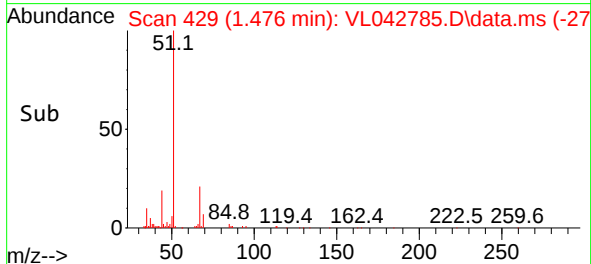
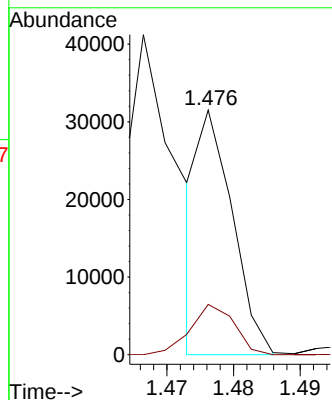
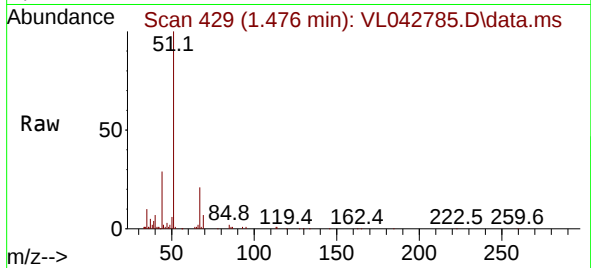
#3
Chlorodifluoromethane
Concen: 0.432 ppbv m
RT: 1.476 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 1111
Ion Ratio Lower Upper
51 100
67 27.6 15.0 22.6

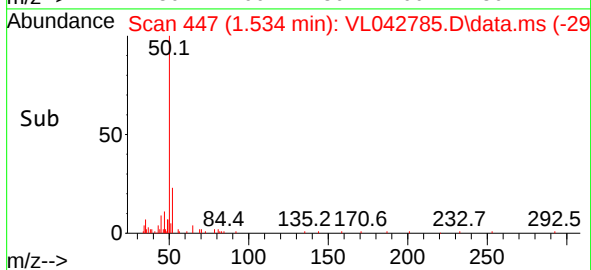
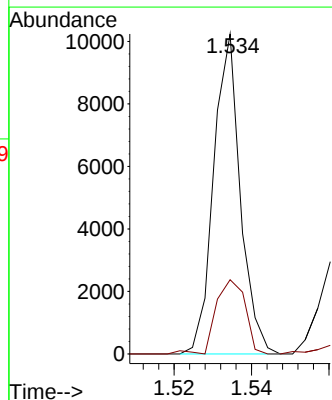
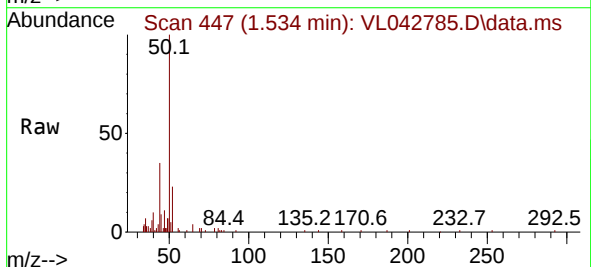
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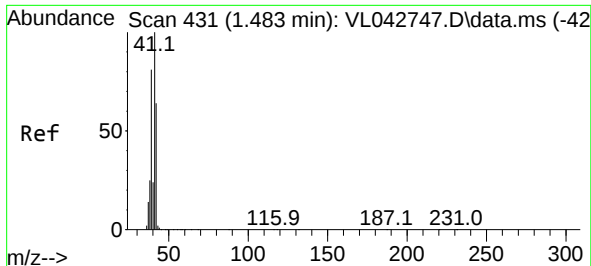
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#4
Chloromethane
Concen: 0.613 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

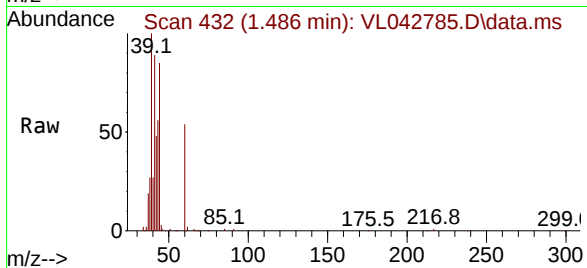
Tgt Ion: 50 Resp: 4905
Ion Ratio Lower Upper
50 100
52 23.2 26.6 40.0





#9
 Propene
 Concen: 1.527 ppbv m
 RT: 1.486 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL042785.D
 Acq: 29 Jul 2025 16:10

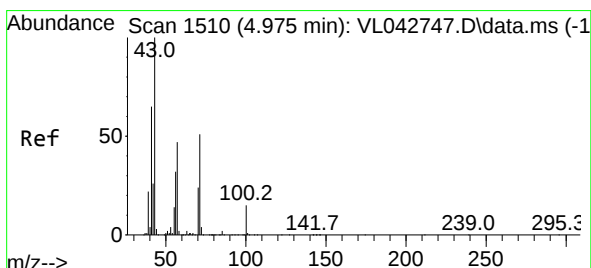
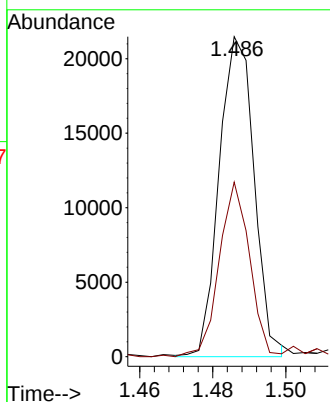
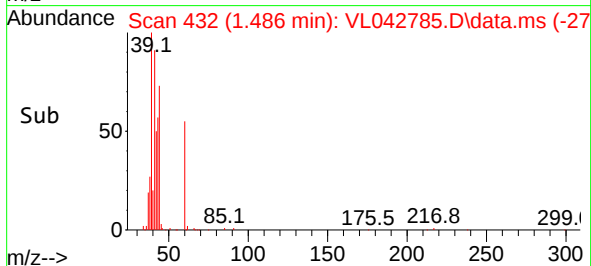
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



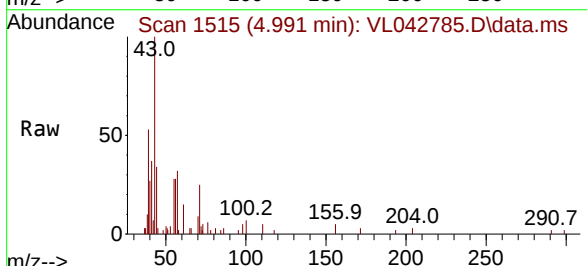
Tgt Ion: 41 Resp: 14290
 Ion Ratio Lower Upper
 41 100
 42 237.5 53.2 79.8

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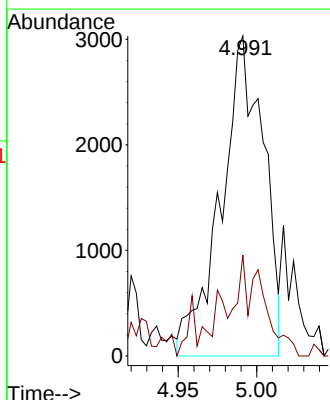
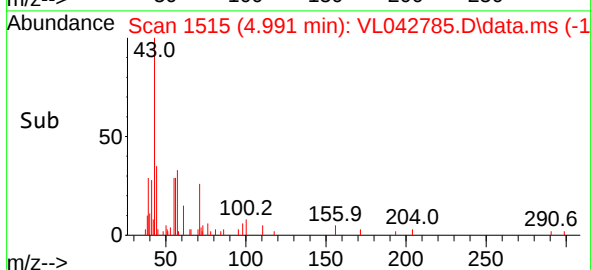
Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

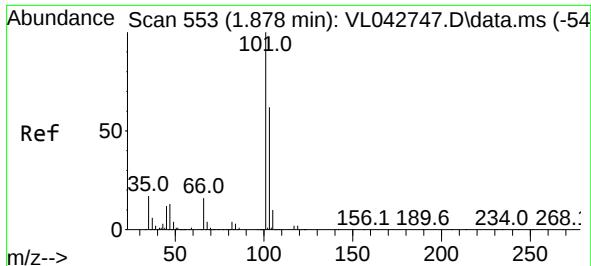


#10
 Heptane
 Concen: 0.227 ppbv m
 RT: 4.991 min Scan# 1515
 Delta R.T. 0.016 min
 Lab File: VL042785.D
 Acq: 29 Jul 2025 16:10



Tgt Ion: 43 Resp: 5720
 Ion Ratio Lower Upper
 43 100
 57 30.2 39.9 59.9





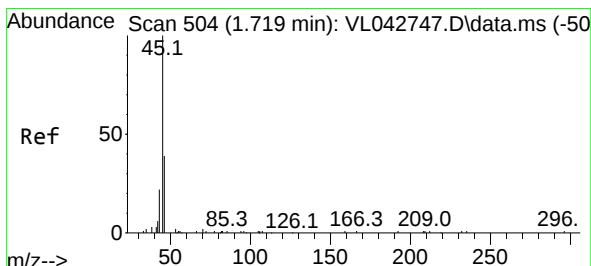
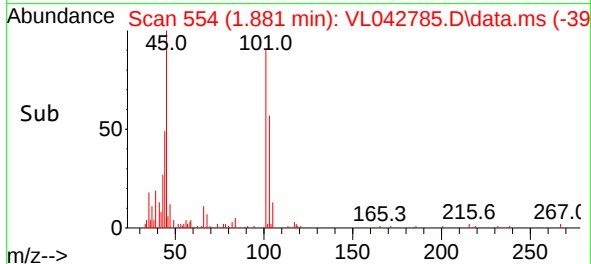
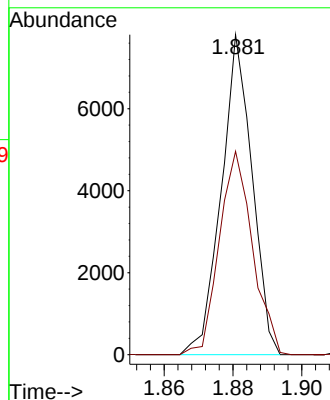
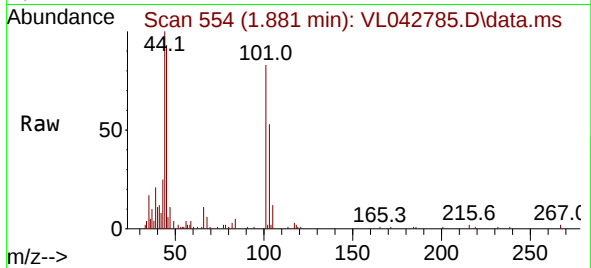
#11
Trichlorofluoromethane
Concen: 0.238 ppbv
RT: 1.881 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:101 Resp: 484
Ion Ratio Lower Upper
101 100
103 63.6 49.6 74.4

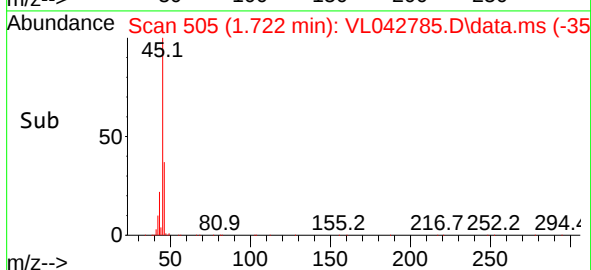
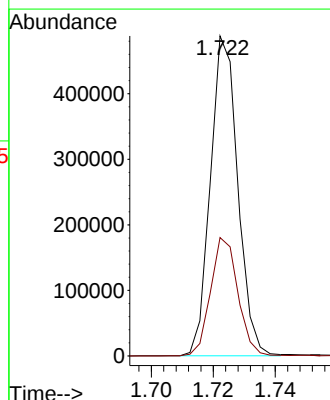
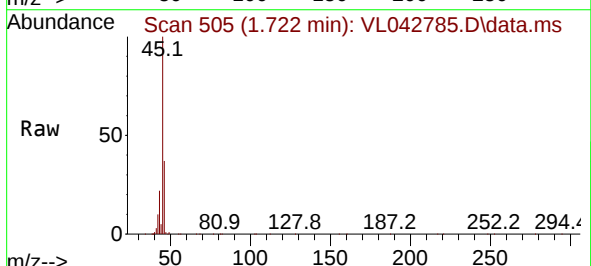
Manual Integrations
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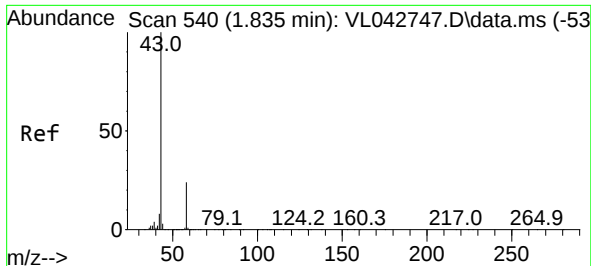
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#13
Ethanol
Concen: 437.926 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

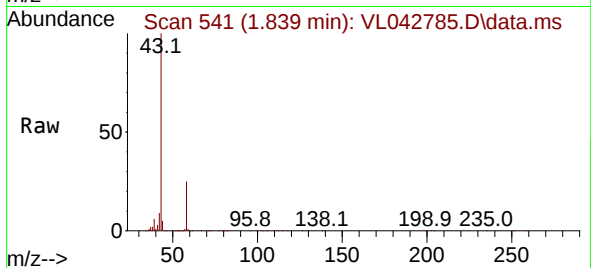
Tgt Ion: 45 Resp: 299258
Ion Ratio Lower Upper
45 100
46 37.4 17.8 71.4





#15
Acetone
Concen: 7.863 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

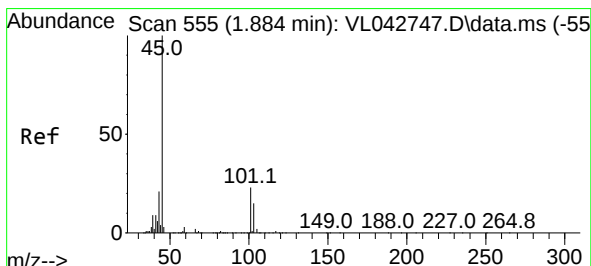
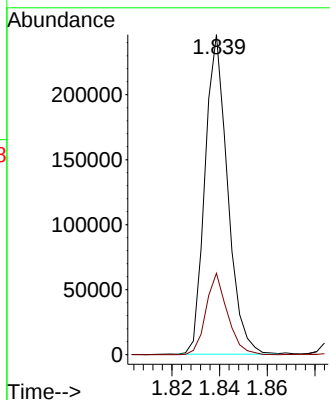
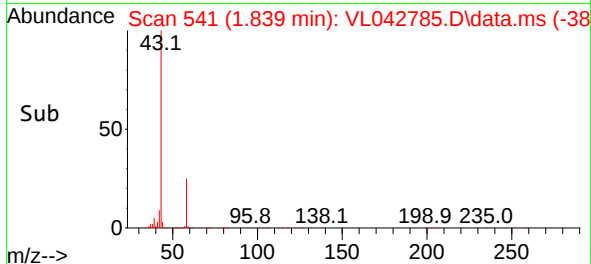
Instrument :
MSVOA_L
ClientSampleId :
OA1



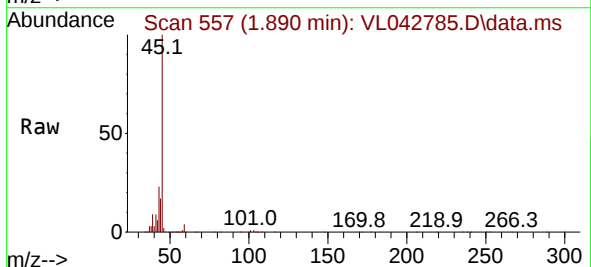
Tgt Ion: 43 Resp: 162360
Ion Ratio Lower Upper
43 100
58 24.2 19.8 29.8

Manual Integrations
APPROVED

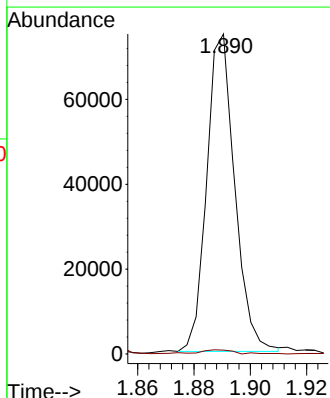
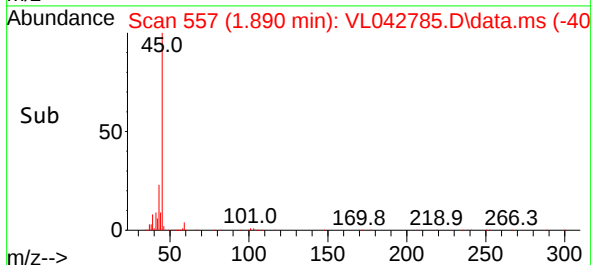
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

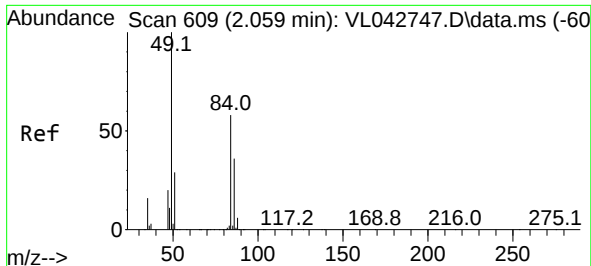


#19
Isopropyl Alcohol
Concen: 4.717 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10



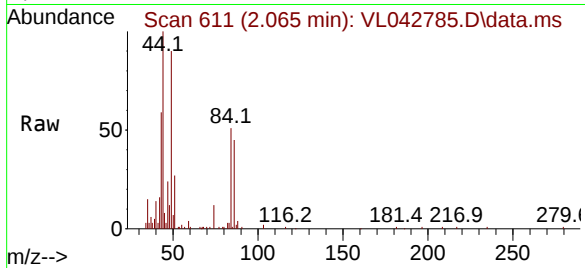
Tgt Ion: 45 Resp: 51757
Ion Ratio Lower Upper
45 100
58 75.8 30.0 45.0#





#20
Methylene Chloride
Concen: 0.700 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

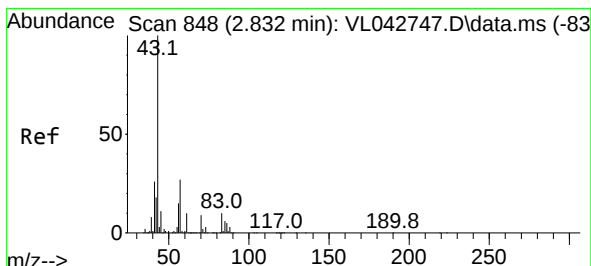
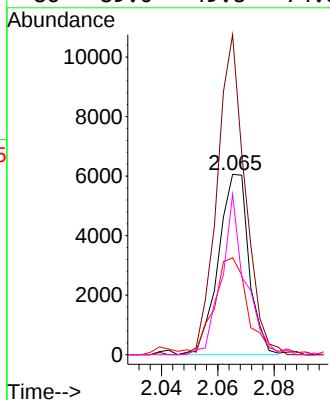
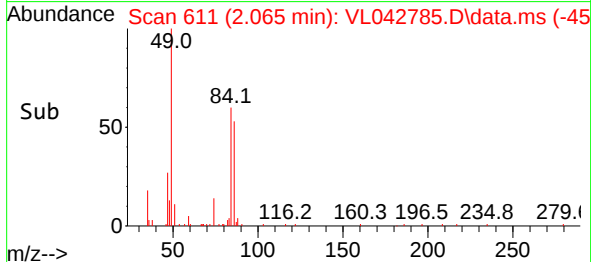
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 4554
Ion Ratio Lower Upper
84 100
49 177.5 138.6 208.0
51 51.9 40.6 61.0
86 89.0 49.8 74.8#

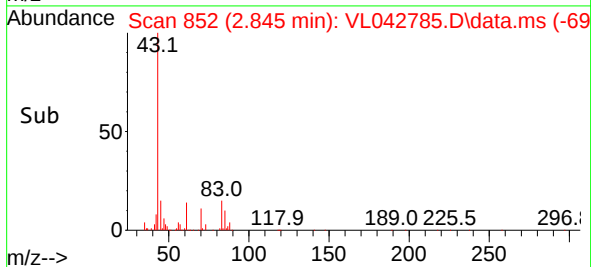
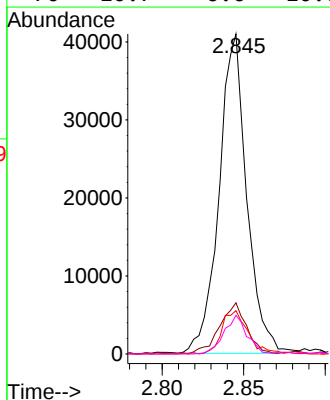
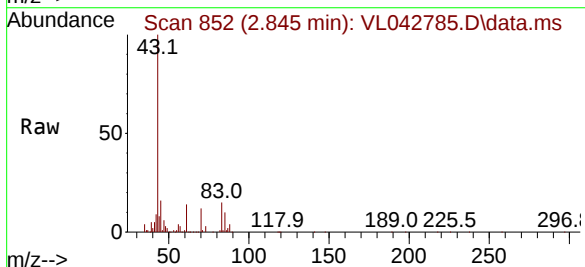
Manual Integrations
APPROVED

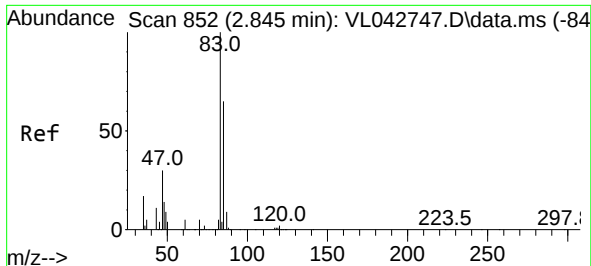
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#25
Ethyl Acetate
Concen: 1.054 ppbv
RT: 2.845 min Scan# 852
Delta R.T. 0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion: 43 Resp: 48188
Ion Ratio Lower Upper
43 100
45 16.6 7.8 11.6#
61 13.0 6.7 10.1#
70 10.7 6.6 10.0#





#29

Chloroform

Concen: 0.510 ppbv

RT: 2.852 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion: 83 Resp: 15792

Ion Ratio Lower Upper

83 100

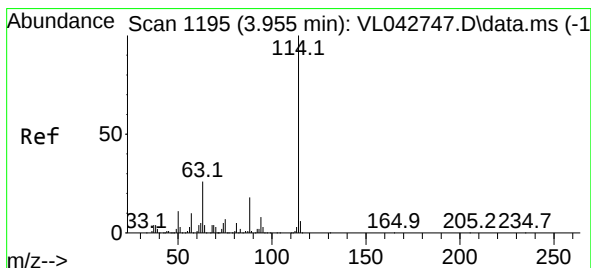
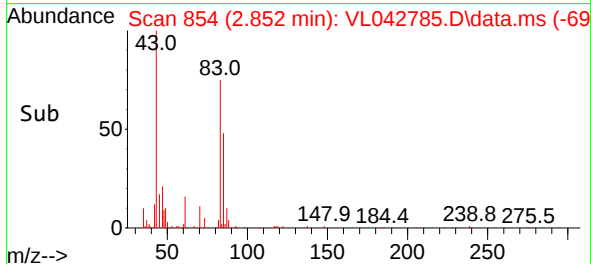
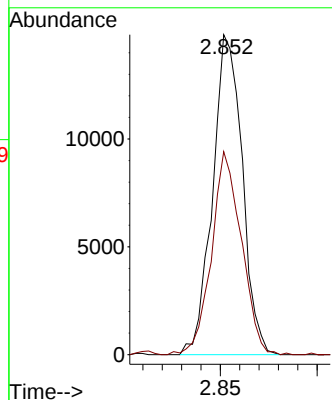
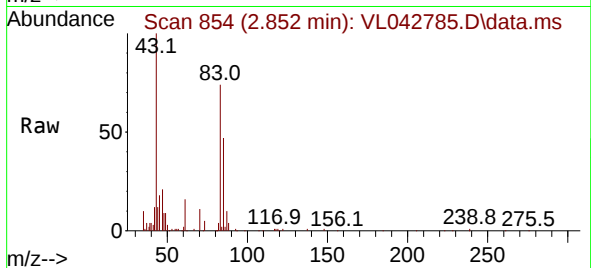
85 63.5 52.2 78.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.010 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

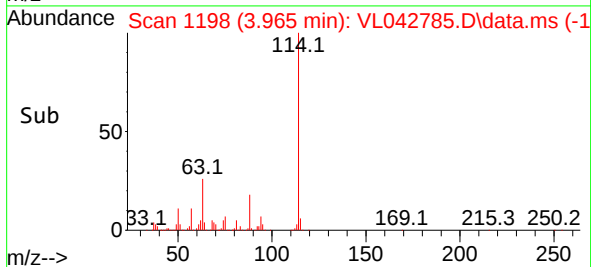
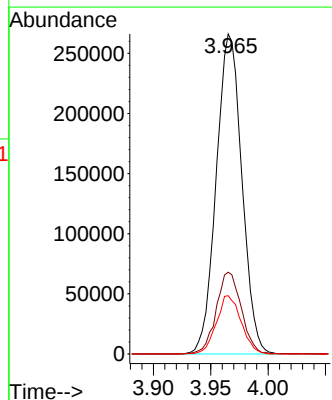
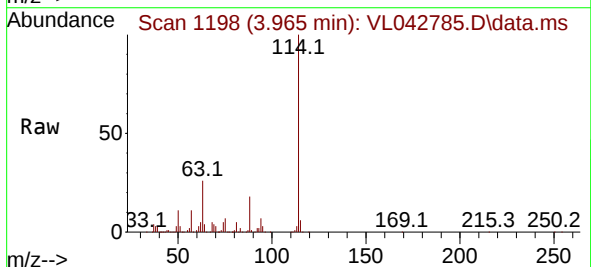
Tgt Ion:114 Resp: 413656

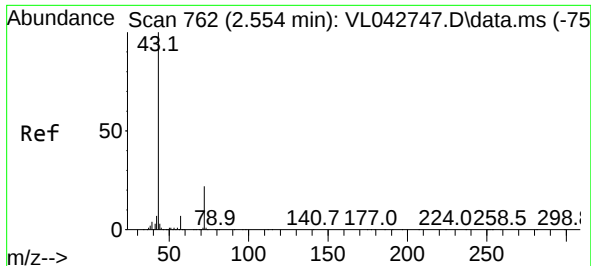
Ion Ratio Lower Upper

114 100

63 25.0 20.5 30.7

88 17.6 14.0 21.0





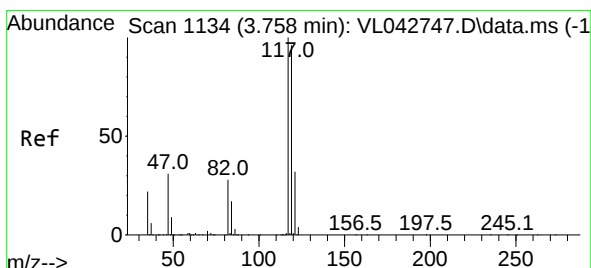
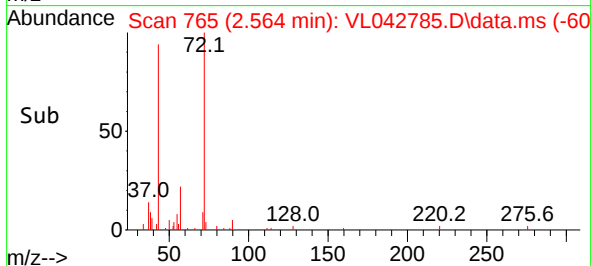
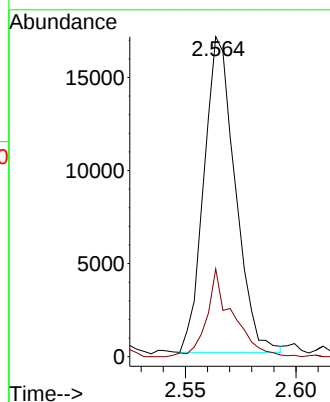
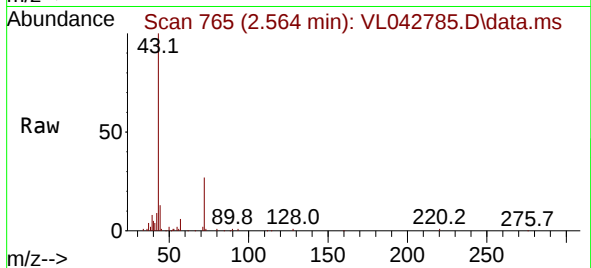
#34
2-Butanone
Concen: 0.568 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 43 Resp: 16650
Ion Ratio Lower Upper
43 100
72 23.1 17.4 26.0

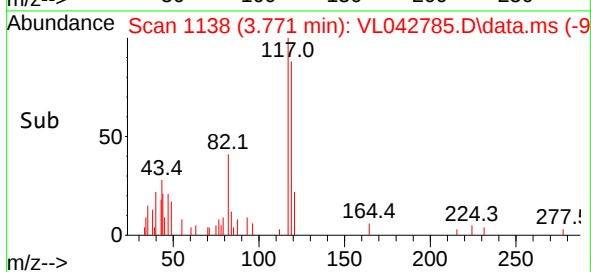
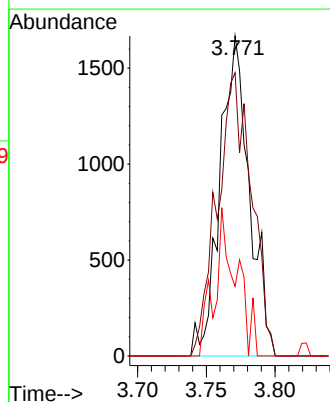
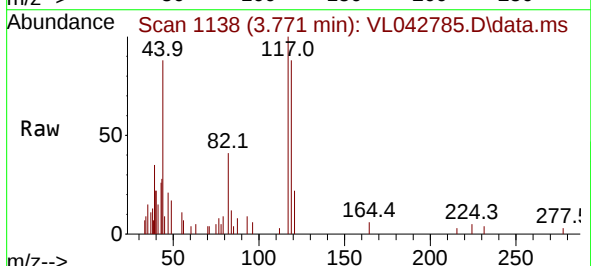
Manual Integrations
APPROVED

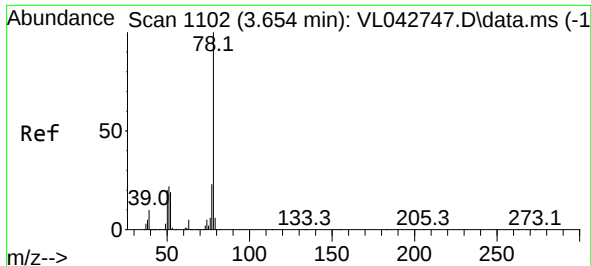
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#35
Carbon Tetrachloride
Concen: 0.081 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. 0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

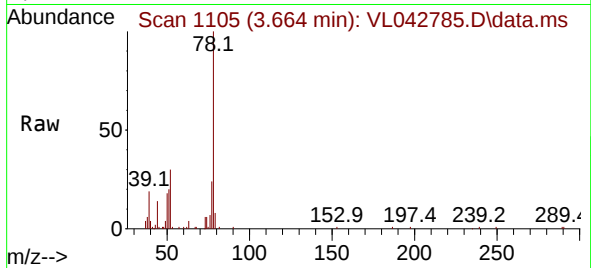
Tgt Ion:117 Resp: 2484
Ion Ratio Lower Upper
117 100
119 88.5 77.1 115.7
121 21.8 25.5 38.3





#36
Benzene
Concen: 0.431 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

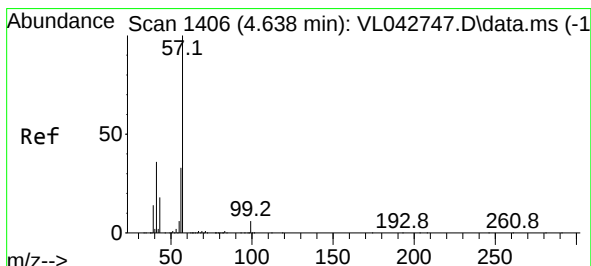
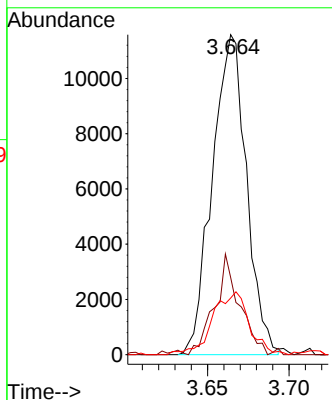
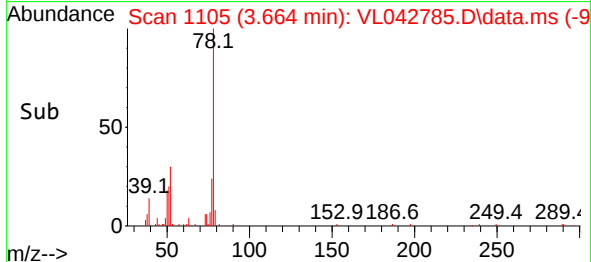
Instrument :
MSVOA_L
ClientSampleId :
OA1



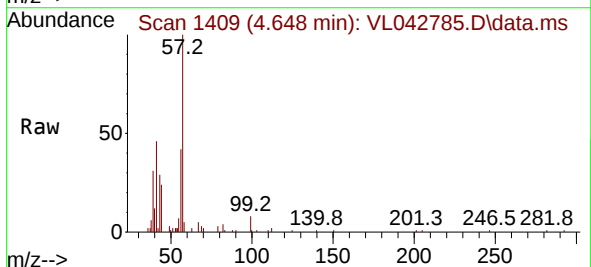
Tgt Ion: 78 Resp: 1688
Ion Ratio Lower Upper
78 100
77 22.7 18.5 27.7
50 16.8 16.2 24.2

Manual Integrations
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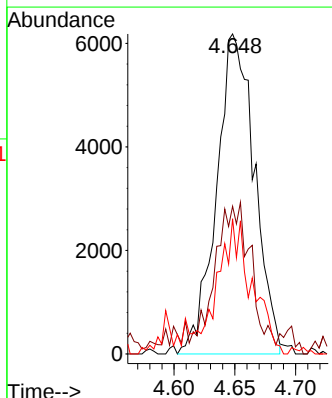
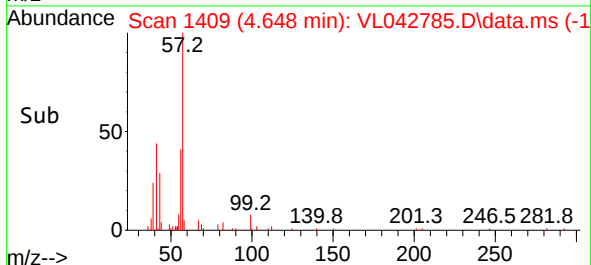
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

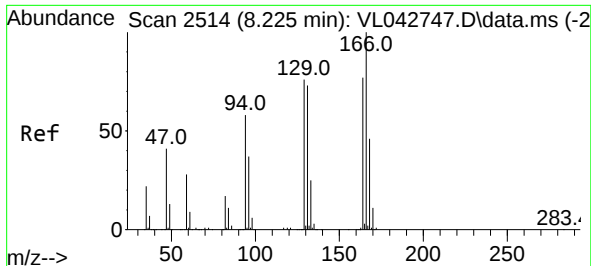


#44
2,2,4-Trimethylpentane
Concen: 0.210 ppbv m
RT: 4.648 min Scan# 1409
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10



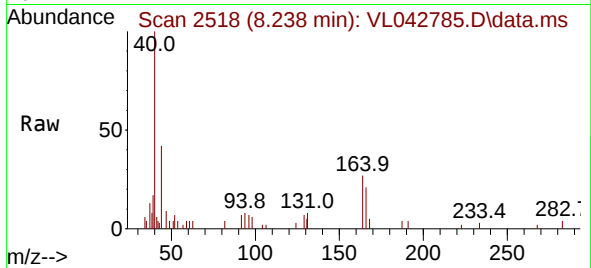
Tgt Ion: 57 Resp: 13410
Ion Ratio Lower Upper
57 100
41 50.2 28.3 42.5#
56 40.3 25.8 38.6#





#52
Tetrachloroethene
Concen: 0.047 ppbv m
RT: 8.238 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

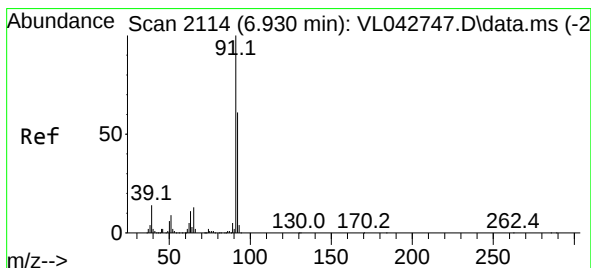
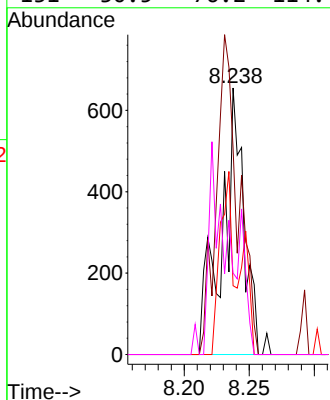
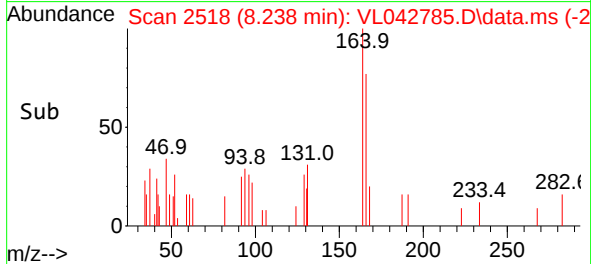
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:164 Resp: 76
Ion Ratio Lower Upper
164 100
166 77.4 104.0 156.0
129 25.8 79.2 118.8
131 30.5 76.2 114.4

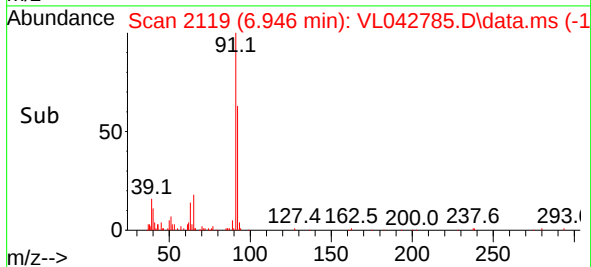
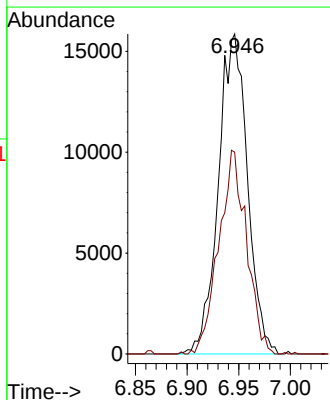
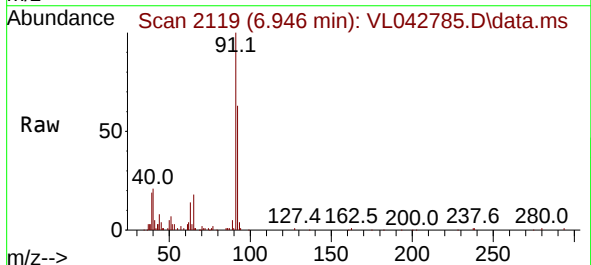
Manual Integrations
APPROVED

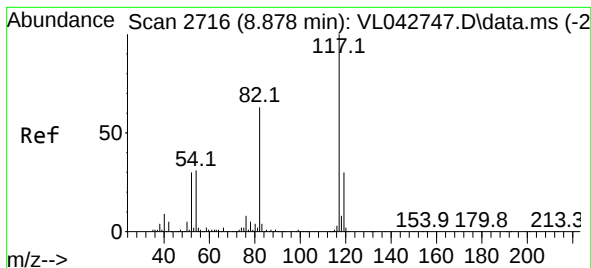
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 0.740 ppbv
RT: 6.946 min Scan# 2119
Delta R.T. 0.016 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Tgt Ion: 91 Resp: 31140
Ion Ratio Lower Upper
91 100
92 60.7 48.0 72.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. 0.010 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Instrument :

MSVOA_L

ClientSampleId :

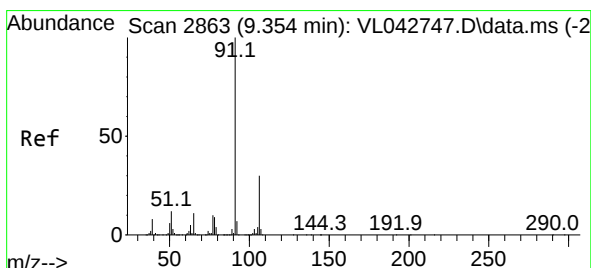
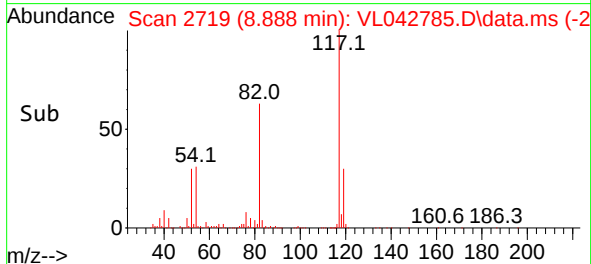
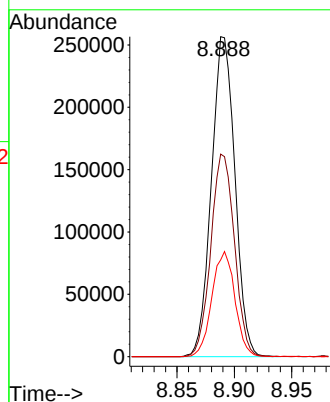
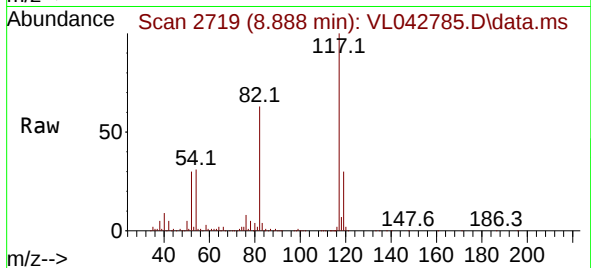
OA1

Tgt Ion:	117	Resp:	36576
Ion Ratio	Lower	Upper	
117	100		
82	63.7	53.3	79.9
119	32.2	25.8	38.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#58

Ethyl Benzene

Concen: 0.106 ppbv m

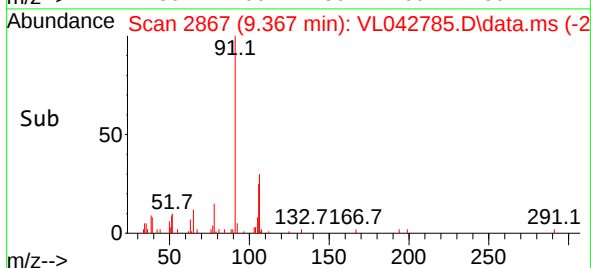
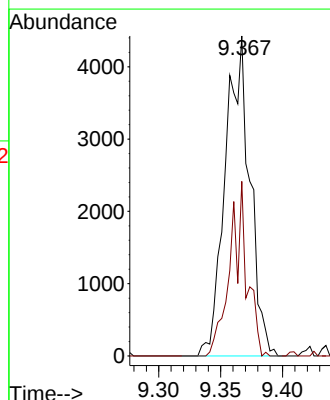
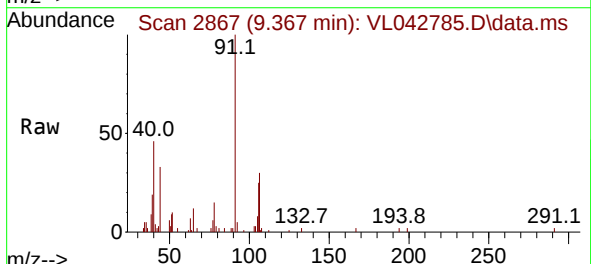
RT: 9.367 min Scan# 2867

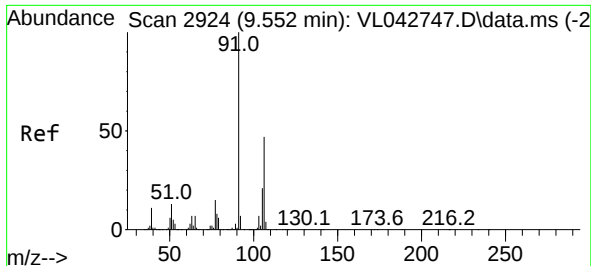
Delta R.T. 0.013 min

Lab File: VL042785.D

Acq: 29 Jul 2025 16:10

Tgt Ion:	91	Resp:	6131
Ion Ratio	Lower	Upper	
91	100		
106	30.0	23.8	35.6





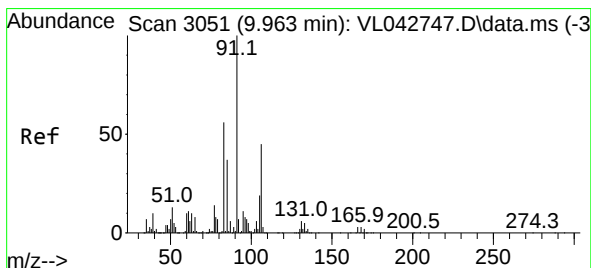
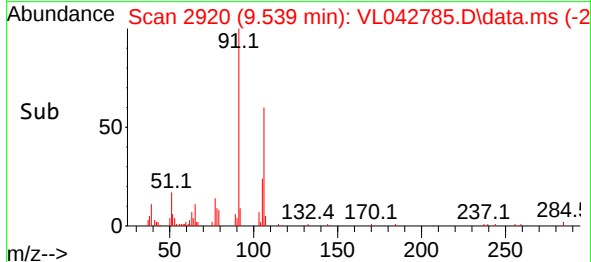
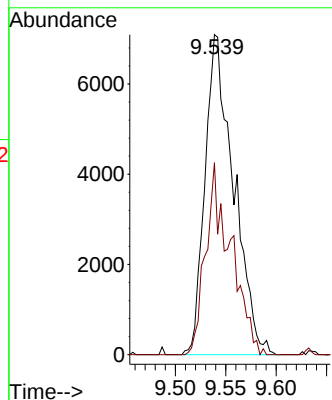
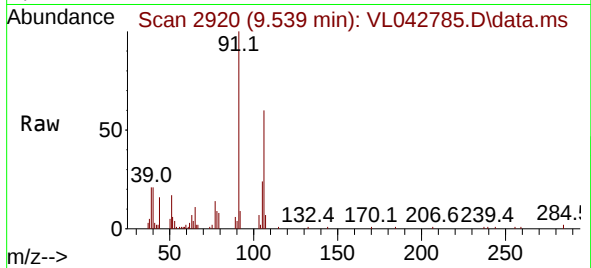
#59
m/p-Xylene
Concen: 0.304 ppbv m
RT: 9.539 min Scan# 2924
Delta R.T. -0.013 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 91 Resp: 1402
Ion Ratio Lower Upper
91 100
106 0.0 37.4 56.2

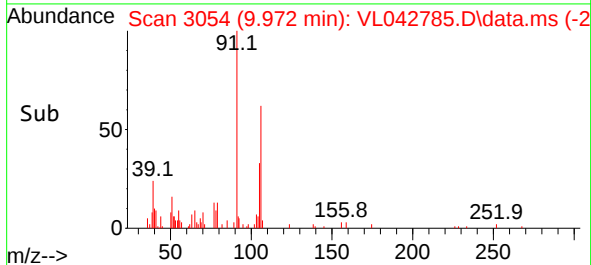
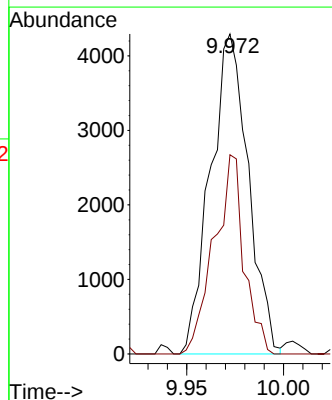
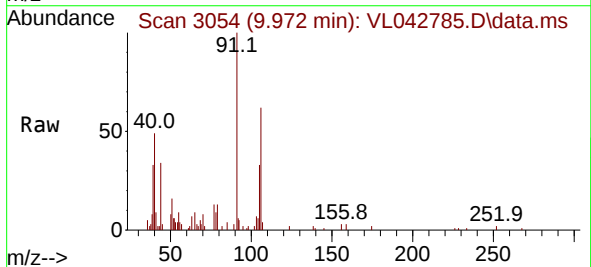
Manual Integrations
APPROVED

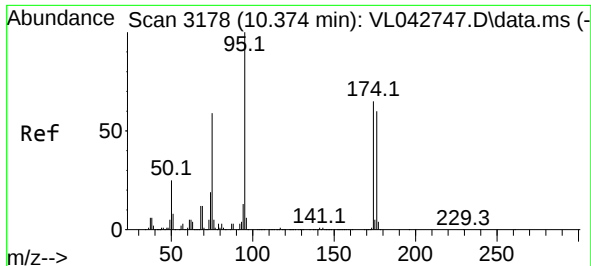
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#60
o-Xylene
Concen: 0.127 ppbv
RT: 9.972 min Scan# 3054
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

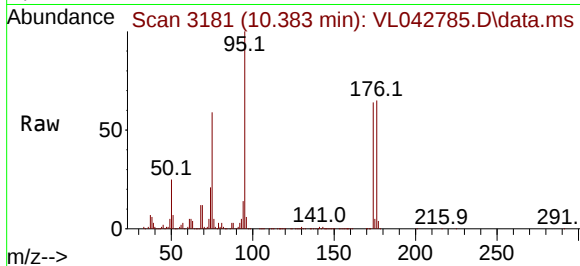
Tgt Ion: 91 Resp: 5849
Ion Ratio Lower Upper
91 100
106 49.0 22.0 66.0





#68
1-Bromo-4-Fluorobenzene
Concen: 9.919 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

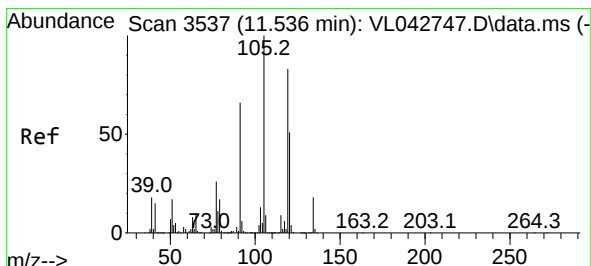
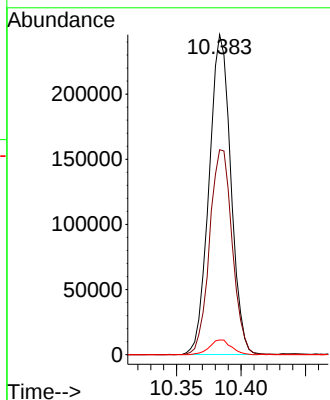
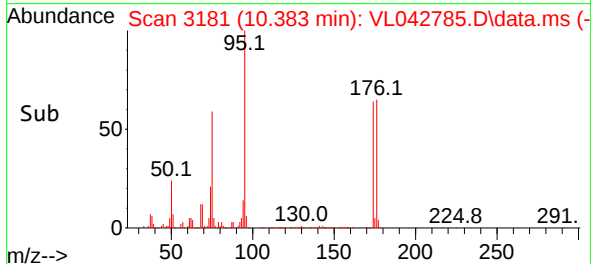
Instrument :
MSVOA_L
ClientSampleId :
OA1



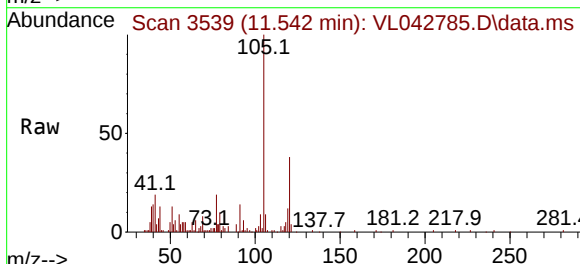
Tgt Ion: 95 Resp: 28731
Ion Ratio Lower Upper
95 100
174 66.7 53.8 80.6
175 4.6 4.0 6.0

Manual Integrations
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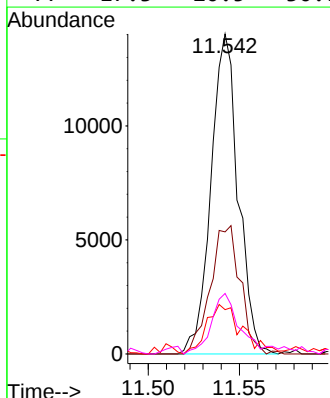
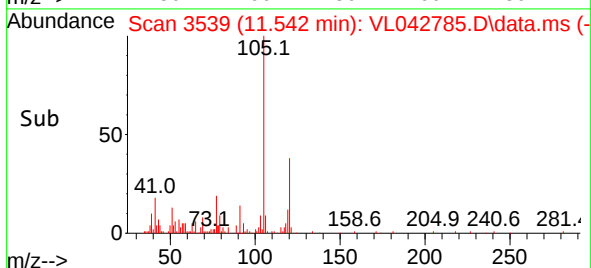
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

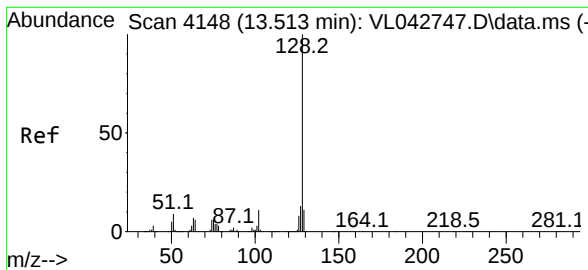


#74
1,2,4-Trimethylbenzene
Concen: 0.294 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10



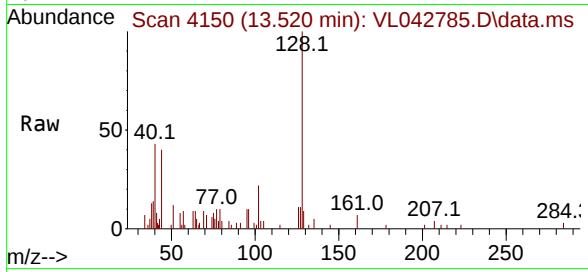
Tgt Ion:105 Resp: 14560
Ion Ratio Lower Upper
105 100
120 38.2 40.8 61.2#
91 13.2 53.0 79.4#
77 17.3 20.5 30.7#





#79
Naphthalene
Concen: 0.491 ppbv
RT: 13.520 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL042785.D
Acq: 29 Jul 2025 16:10

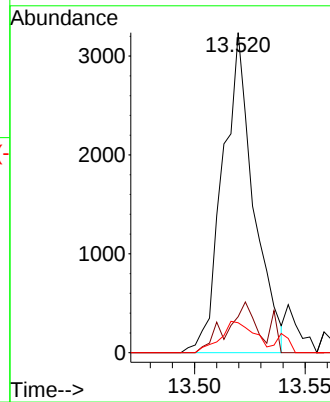
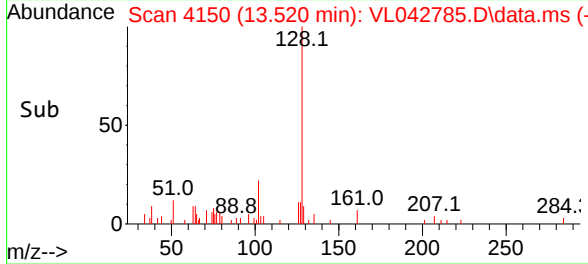
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion:	128	Resp:	315
Ion	Ratio	Lower	Upper
128	100		
127	11.2	10.5	15.7
129	9.4	8.6	13.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	07/28/25
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	07/28/25
Client Sample ID:	IA1	SDG No.:	Q2712
Lab Sample ID:	Q2712-07	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
VL042786.D	1		07/29/25 16:48	vl072925

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
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.11	0.75		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	145000		2.79			
540-36-3	1,4-Difluorobenzene	398000		3.962			
3114-55-4	Chlorobenzene-d5	363000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042786.D
 Acq On : 29 Jul 2025 16:48
 Operator : SY/MD
 Sample : Q2712-07
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:15:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

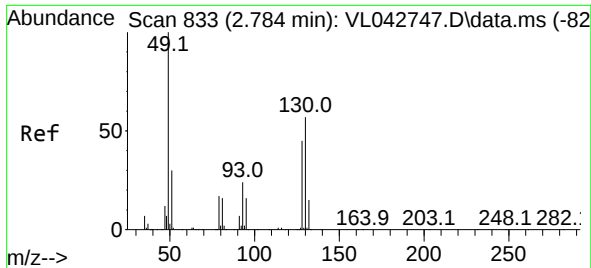
QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

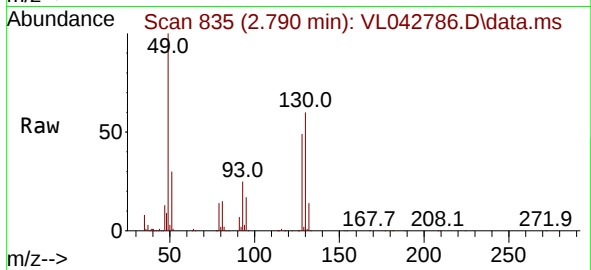
Internal Standards						
1) Bromochloromethane	2.790	49	144757	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	398064	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	363372	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	299457	10.406	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.100%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	14009	0.732	ppbv	96
3) Chlorodifluoromethane	1.473	51	42028m	1.686	ppbv	
4) Chloromethane	1.531	50	5410	0.699	ppbv	97
9) Propene	1.486	41	32197m	3.553	ppbv	
10) Heptane	4.991	43	13850	0.567	ppbv #	51
11) Trichlorofluoromethane	1.881	101	21818	1.106	ppbv	93
13) Ethanol	1.725	45	1501601	2274.737	ppbv	99
15) Acetone	1.839	43	393351	19.679	ppbv	98
19) Isopropyl Alcohol	1.890	45	109463	10.305	ppbv #	7
20) Methylene Chloride	2.065	84	5920	0.940	ppbv #	85
23) Vinyl Acetate	2.457	43	109547	4.521	ppbv #	94
25) Ethyl Acetate	2.839	43	703519	15.901	ppbv #	91
29) Chloroform	2.852	83	20938	0.698	ppbv	100
34) 2-Butanone	2.564	43	69967	2.481	ppbv	100
35) Carbon Tetrachloride	3.774	117	3830m	0.130	ppbv	
36) Benzene	3.661	78	11967	0.317	ppbv	96
41) Tetrahydrofuran	3.062	42	19230	1.340	ppbv #	48
44) 2,2,4-Trimethylpentane	4.645	57	10747m	0.175	ppbv	
50) 4-Methyl-2-Pentanone	5.774	43	36734m	1.011	ppbv	
51) 2-Hexanone	7.448	43	26639	0.971	ppbv #	97
52) Tetrachloroethene	8.234	164	1644m	0.105	ppbv	
53) Toluene	6.943	91	92975	2.295	ppbv	98
58) Ethyl Benzene	9.364	91	10925	0.190	ppbv #	85
59) m/p-Xylene	9.535	91	37151	0.810	ppbv	100
60) o-Xylene	9.972	91	17984	0.392	ppbv	98
61) Styrene	9.878	104	22758	1.181	ppbv	95
64) n-propylbenzene	10.995	120	4688	0.266	ppbv	85
69) p-Isopropyltoluene	11.927	119	32129	0.461	ppbv #	90
72) 4-Ethyltoluene	11.131	105	22908	0.419	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.209	105	27631	0.613	ppbv #	82
74) 1,2,4-Trimethylbenzene	11.542	105	103870	2.113	ppbv #	61
76) 1,4-Dichlorobenzene	11.675	146	8416	0.250	ppbv	90
79) Naphthalene	13.516	128	13453	0.676	ppbv	97

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 81
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

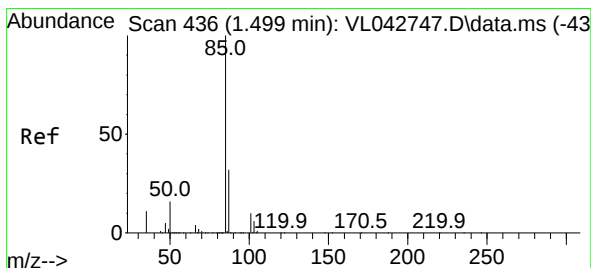
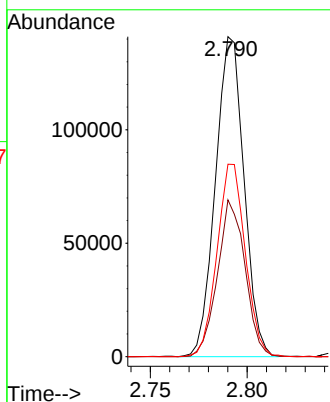
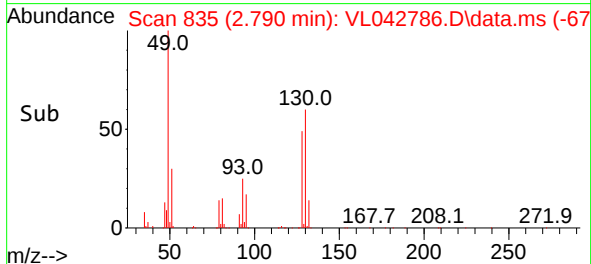
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 14475
Ion Ratio Lower Upper
49 100
128 47.2 23.6 71.0
130 59.6 30.3 90.8

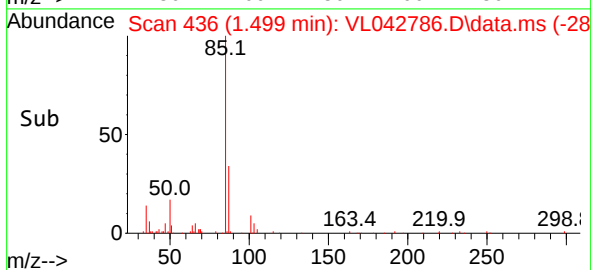
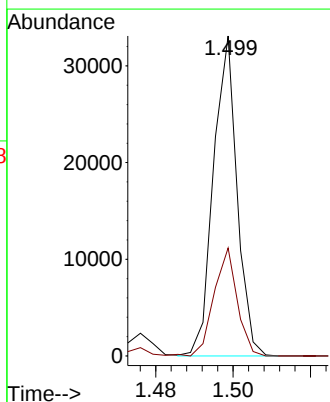
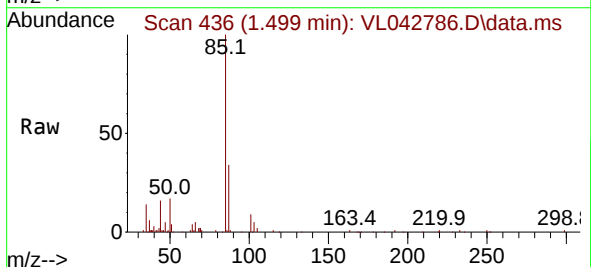
Manual Integrations
APPROVED

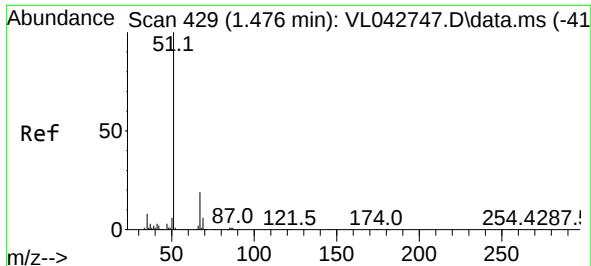
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#2
Dichlorodifluoromethane
Concen: 0.732 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.000 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 85 Resp: 14009
Ion Ratio Lower Upper
85 100
87 33.8 25.4 38.2





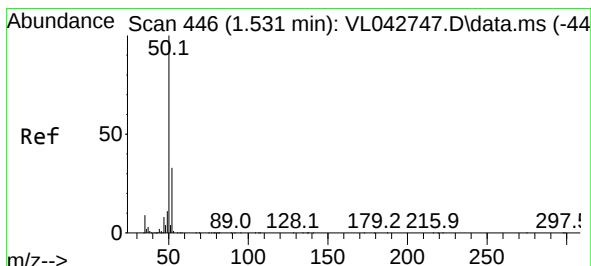
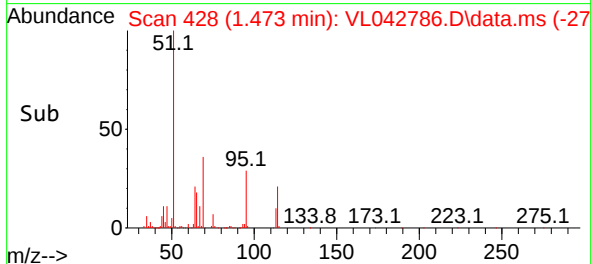
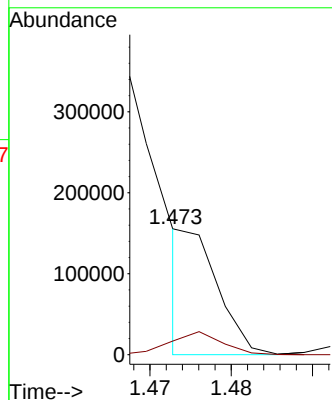
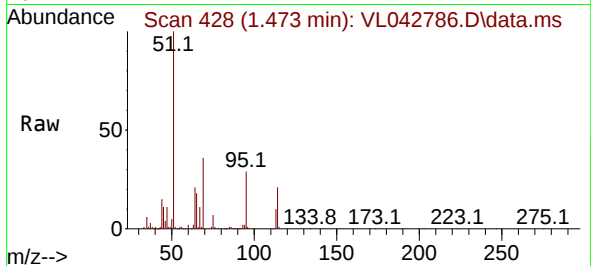
#3
Chlorodifluoromethane
Concen: 1.686 ppbv m
RT: 1.473 min Scan# 428
Delta R.T. -0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 51 Resp: 42028
Ion Ratio Lower Upper
51 100
67 33.1 15.0 22.6

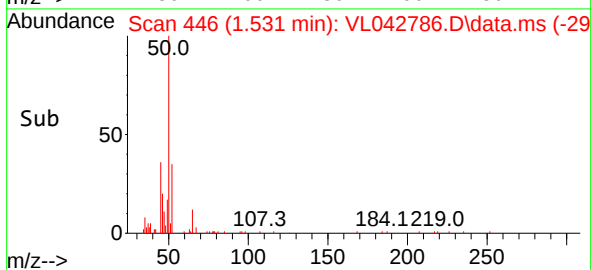
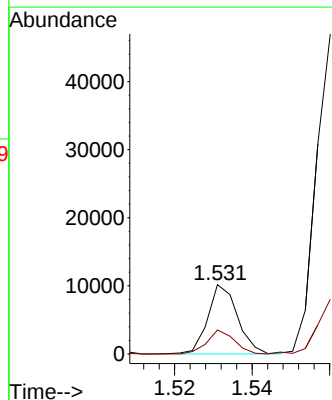
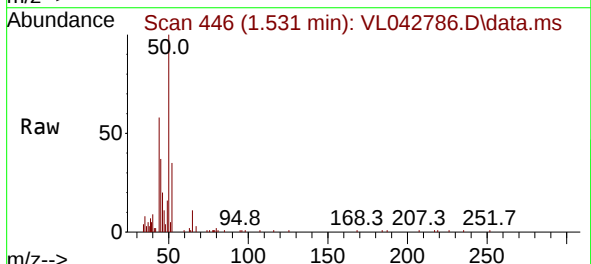
Manual Integrations
APPROVED

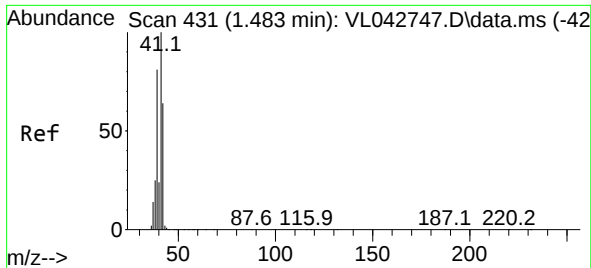
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#4
Chloromethane
Concen: 0.699 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.000 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 50 Resp: 5410
Ion Ratio Lower Upper
50 100
52 35.1 26.6 40.0





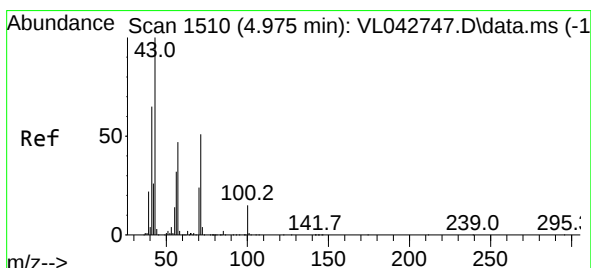
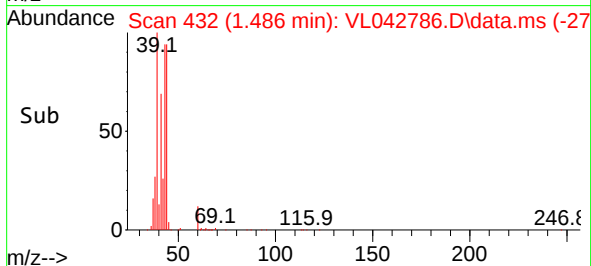
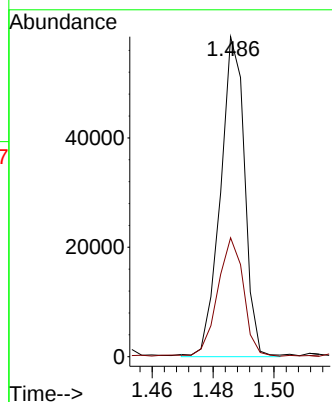
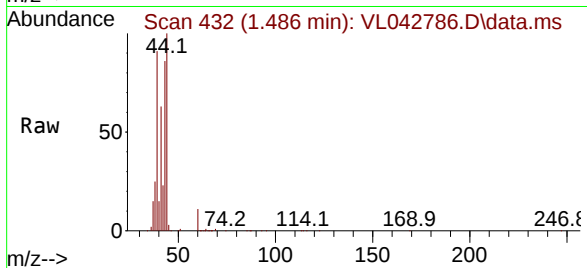
#9
Propene
Concen: 3.553 ppbv m
RT: 1.486 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 41 Resp: 3219
Ion Ratio Lower Upper
41 100
42 1926.9 53.2 79.8

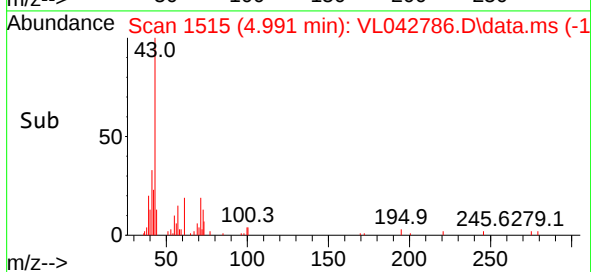
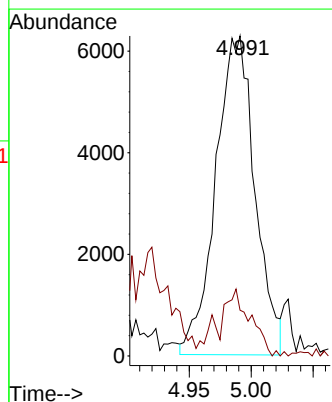
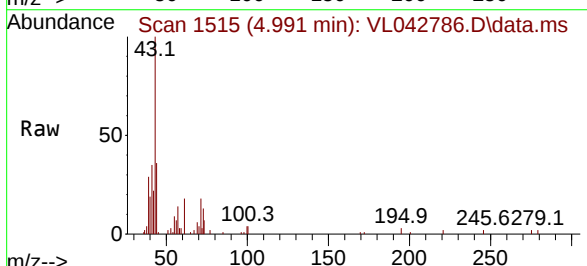
Manual Integrations
APPROVED

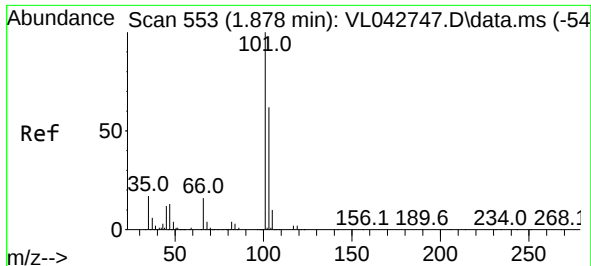
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#10
Heptane
Concen: 0.567 ppbv
RT: 4.991 min Scan# 1515
Delta R.T. 0.016 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 43 Resp: 13850
Ion Ratio Lower Upper
43 100
57 16.5 39.9 59.9#





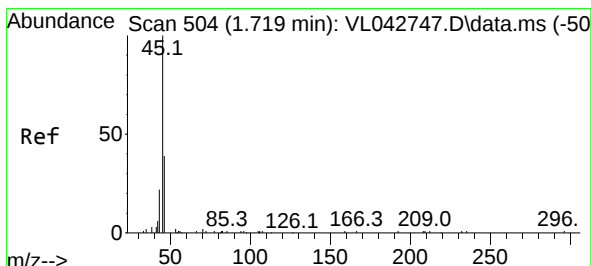
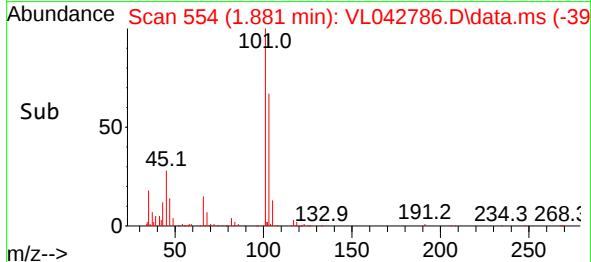
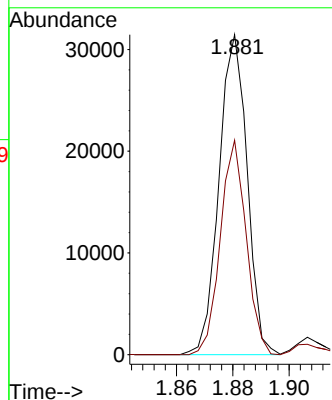
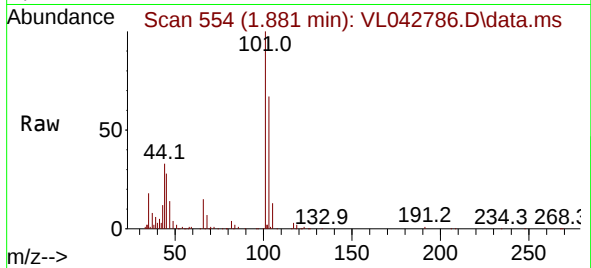
#11
Trichlorofluoromethane
Concen: 1.106 ppbv
RT: 1.881 min Scan# 506
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:101 Resp: 21818
Ion Ratio Lower Upper
101 100
103 67.0 49.6 74.4

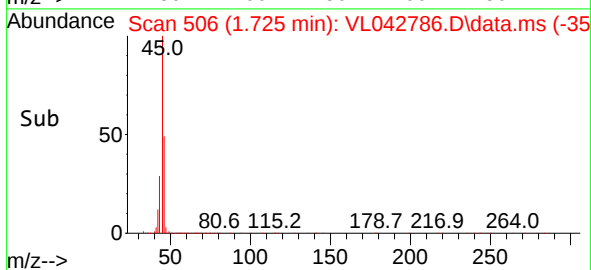
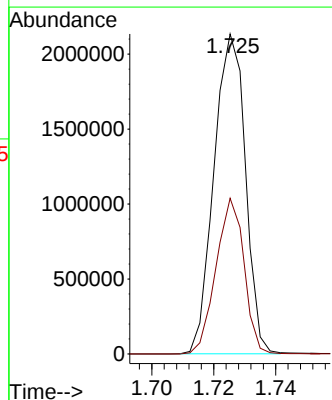
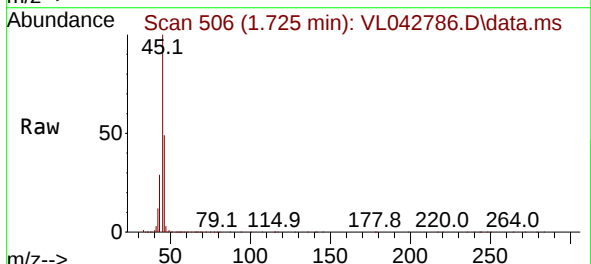
Manual Integrations
APPROVED

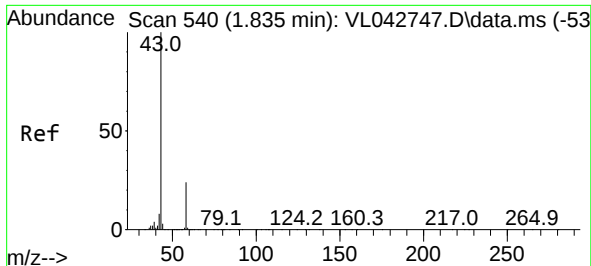
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#13
Ethanol
Concen: 2274.737 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

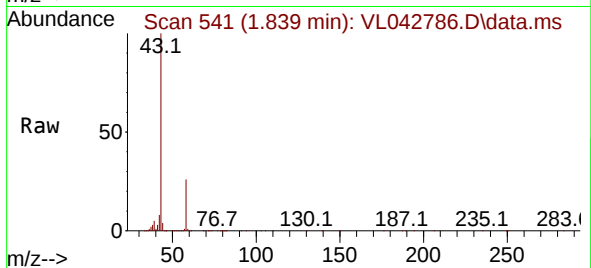
Tgt Ion: 45 Resp: 1501601
Ion Ratio Lower Upper
45 100
46 43.7 17.8 71.4





#15
Acetone
Concen: 19.679 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

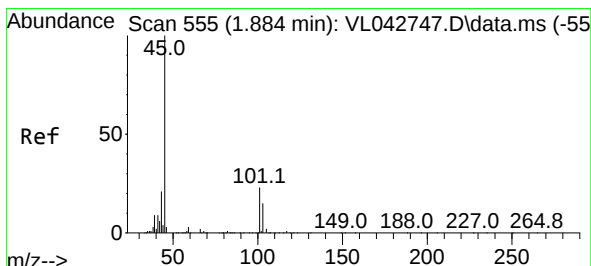
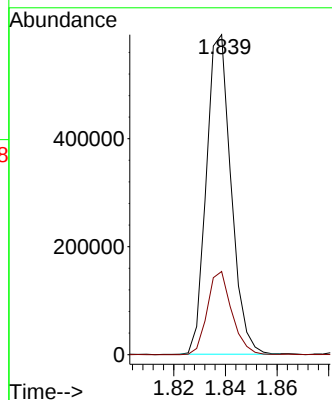
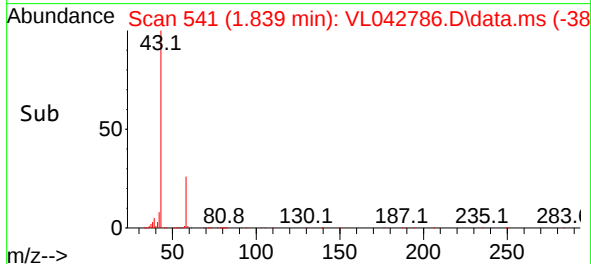
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 39335
Ion Ratio Lower Upper
43 100
58 26.0 19.8 29.8

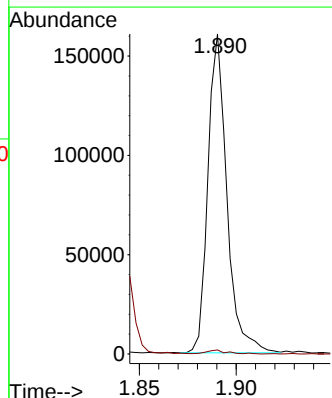
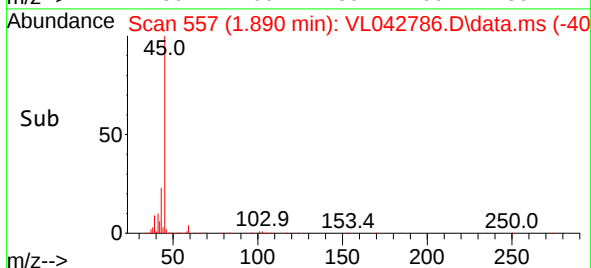
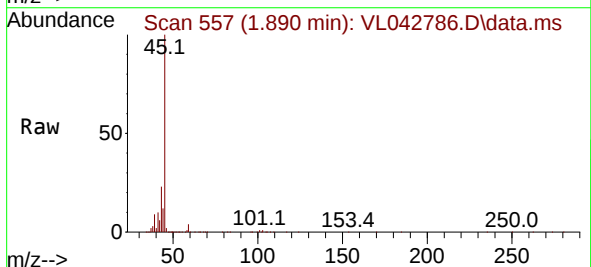
Manual Integrations
APPROVED

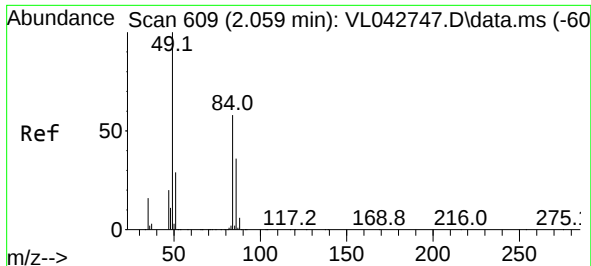
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#19
Isopropyl Alcohol
Concen: 10.305 ppbv
RT: 1.890 min Scan# 557
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

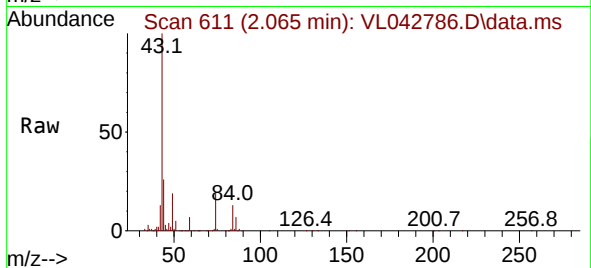
Tgt Ion: 45 Resp: 109463
Ion Ratio Lower Upper
45 100
58 93.3 30.0 45.0#





#20
Methylene Chloride
Concen: 0.940 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

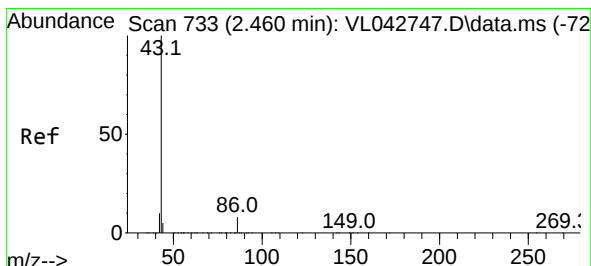
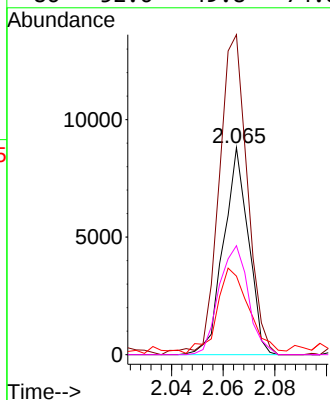
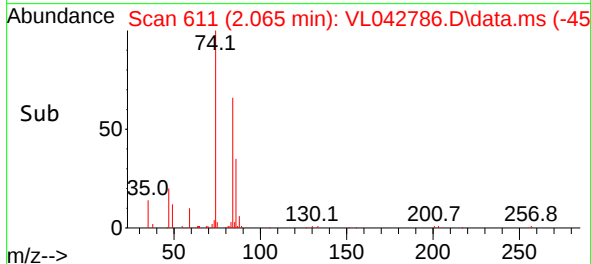
Instrument :
MSVOA_L
ClientSampleId :
IA1



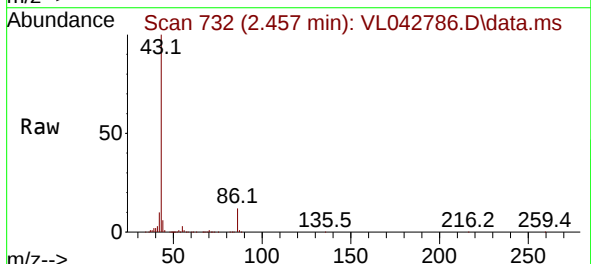
Tgt Ion: 84 Resp: 5920
Ion Ratio Lower Upper
84 100
49 154.5 138.6 208.0
51 35.7 40.6 61.0
86 52.6 49.8 74.8

Manual Integrations
APPROVED

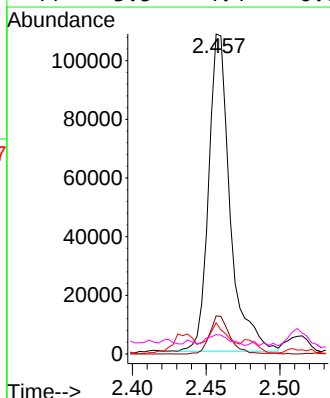
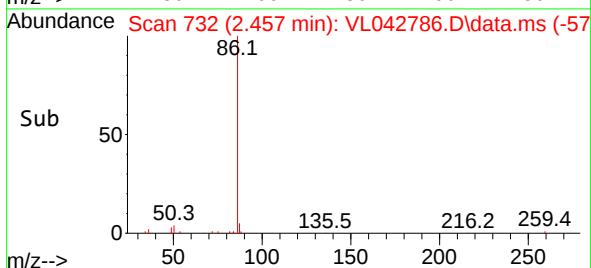
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

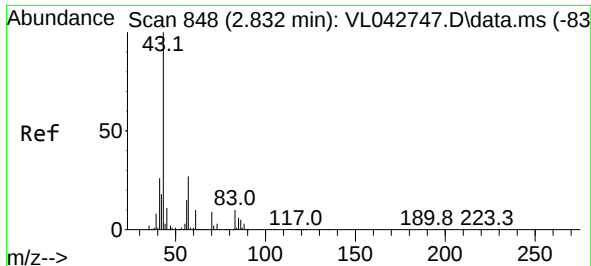


#23
Vinyl Acetate
Concen: 4.521 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48



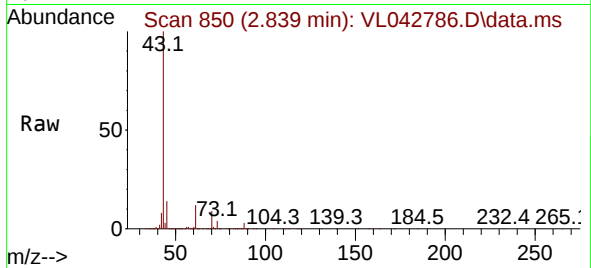
Tgt Ion: 43 Resp: 109547
Ion Ratio Lower Upper
43 100
86 12.0 6.1 9.1#
42 9.5 7.8 11.8
44 3.5 4.4 6.6#





#25
Ethyl Acetate
Concen: 15.901 ppbv
RT: 2.839 min Scan# 80
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

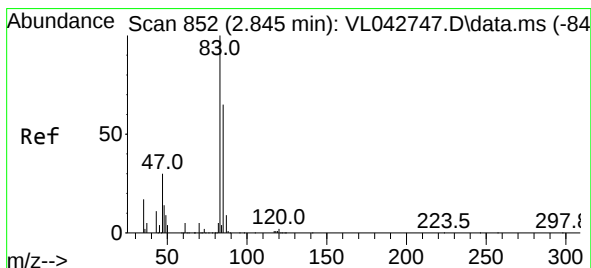
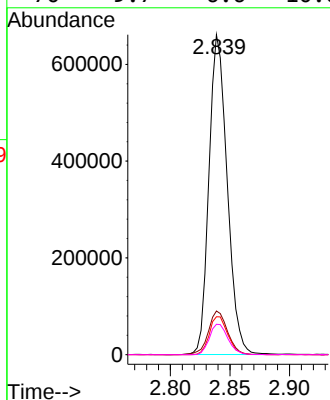
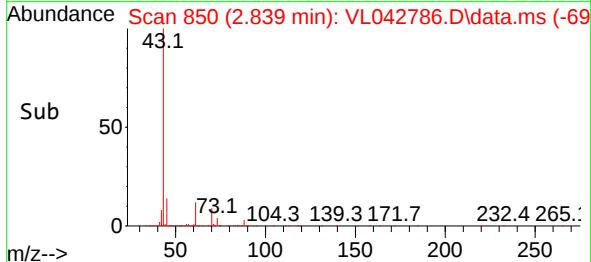
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 703519
Ion Ratio Lower Upper
43 100
45 14.5 7.8 11.6
61 12.1 6.7 10.1
70 9.7 6.6 10.0

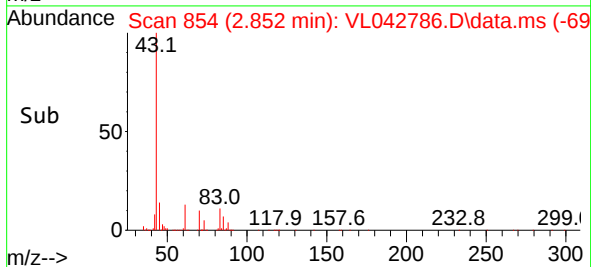
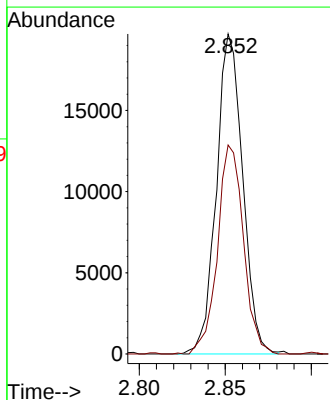
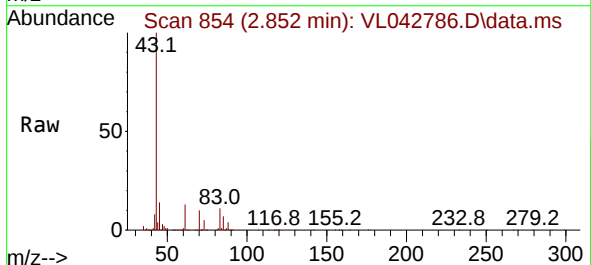
Manual Integrations
APPROVED

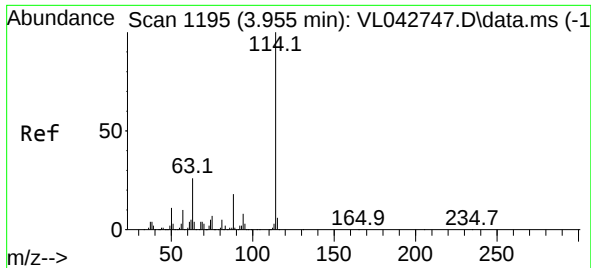
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#29
Chloroform
Concen: 0.698 ppbv
RT: 2.852 min Scan# 854
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 83 Resp: 20938
Ion Ratio Lower Upper
83 100
85 65.3 52.2 78.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

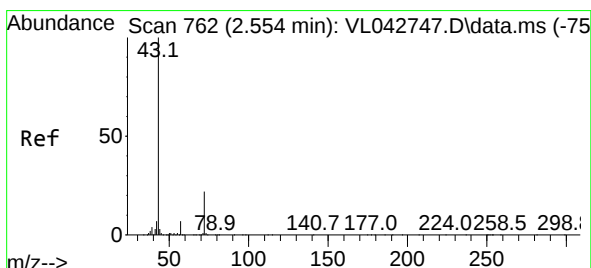
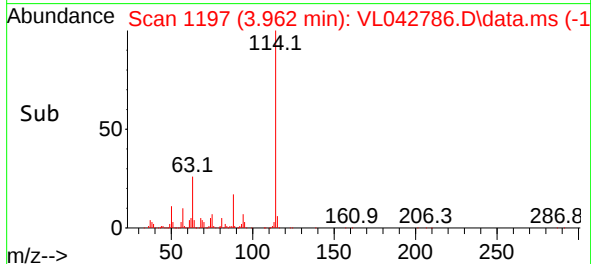
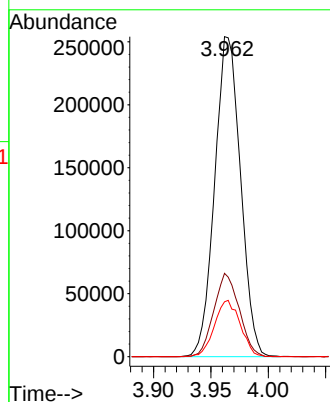
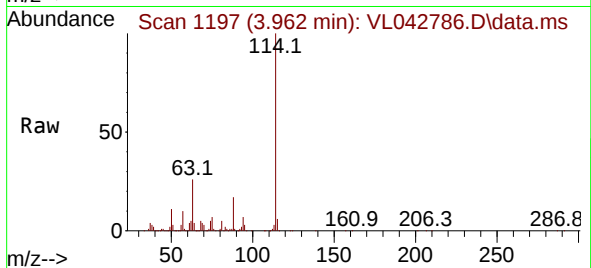
IA1

Tgt Ion:114 Resp: 398064
 Ion Ratio Lower Upper
 114 100
 63 25.6 20.5 30.7
 88 17.6 14.0 21.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025



#34

2-Butanone

Concen: 2.481 ppbv

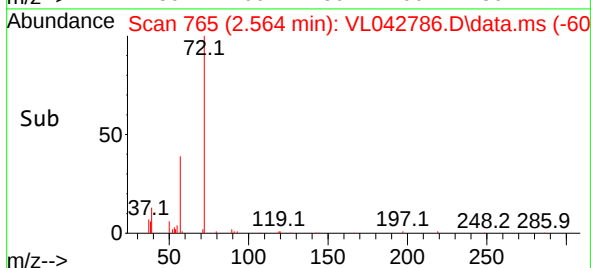
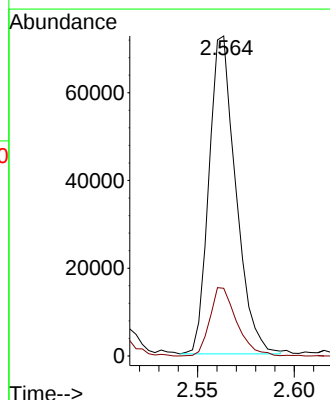
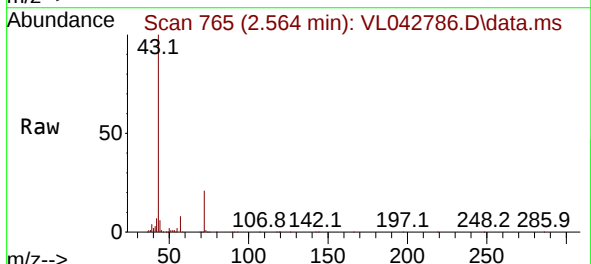
RT: 2.564 min Scan# 765

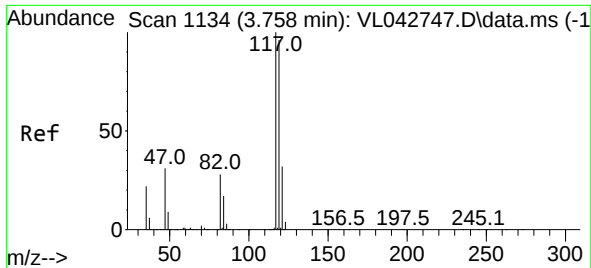
Delta R.T. 0.010 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

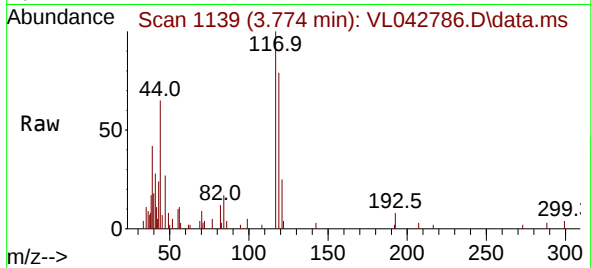
Tgt Ion: 43 Resp: 69967
 Ion Ratio Lower Upper
 43 100
 72 21.5 17.4 26.0





#35
Carbon Tetrachloride
Concen: 0.130 ppbv m
RT: 3.774 min Scan# 1134
Delta R.T. 0.016 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

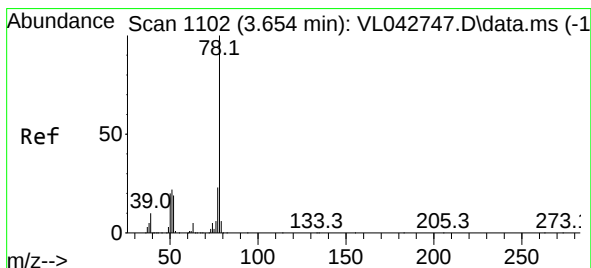
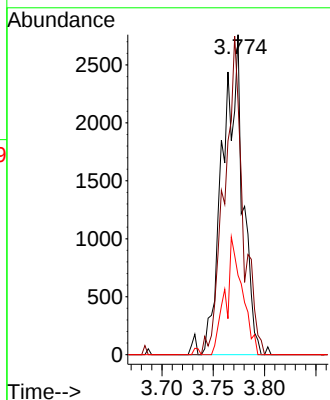
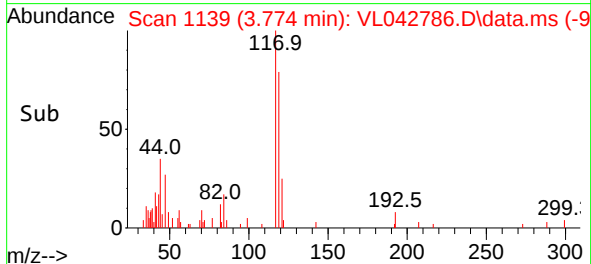
Instrument :
MSVOA_L
ClientSampleId :
IA1



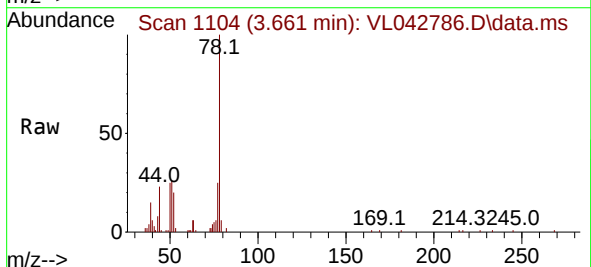
Tgt Ion:117 Resp: 3830
Ion Ratio Lower Upper
117 100
119 79.0 77.1 115.7
121 24.8 25.5 38.3

Manual Integrations
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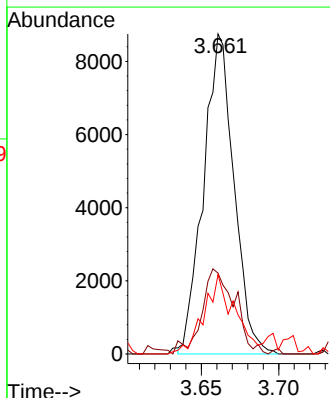
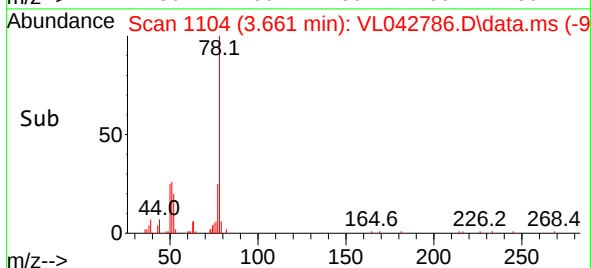
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

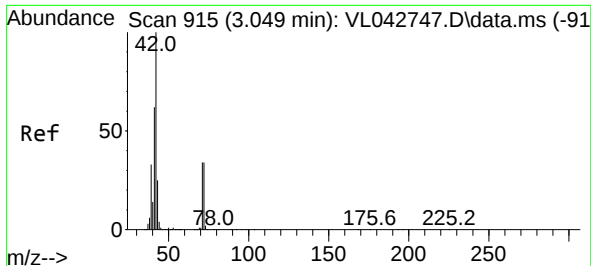


#36
Benzene
Concen: 0.317 ppbv
RT: 3.661 min Scan# 1104
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48



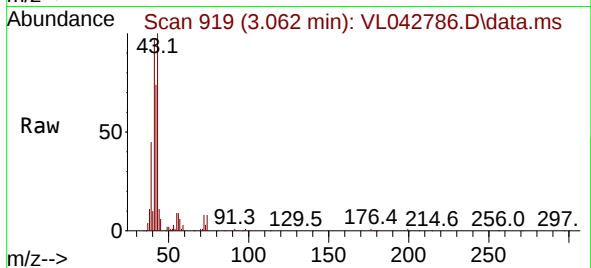
Tgt Ion: 78 Resp: 11967
Ion Ratio Lower Upper
78 100
77 23.5 18.5 27.7
50 23.7 16.2 24.2





#41
Tetrahydrofuran
Concen: 1.340 ppbv
RT: 3.062 min Scan# 915
Delta R.T. 0.013 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

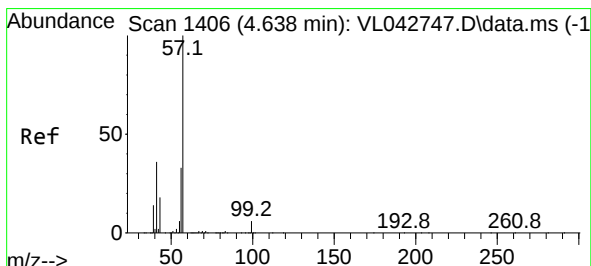
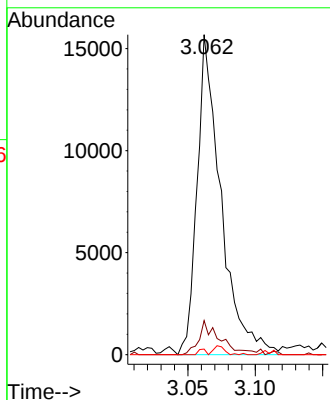
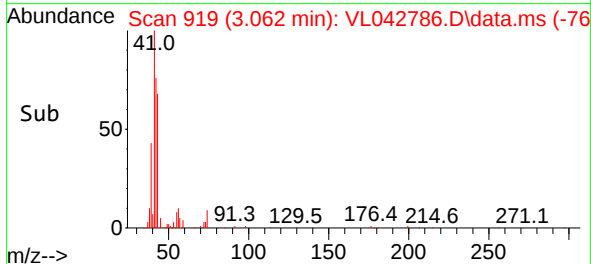
Instrument :
MSVOA_L
ClientSampleId :
IA1



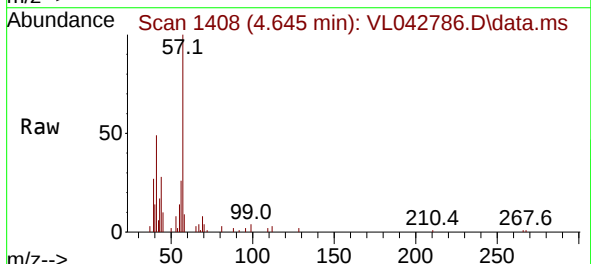
Tgt Ion: 42 Resp: 19230
Ion Ratio Lower Upper
42 100
72 10.1 30.9 46.3#
71 1.8 28.6 43.0#

Manual Integrations
APPROVED

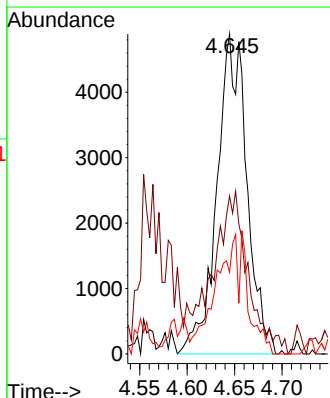
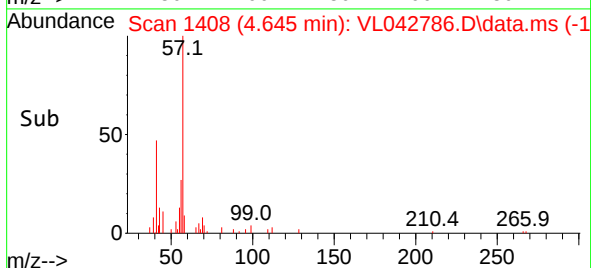
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

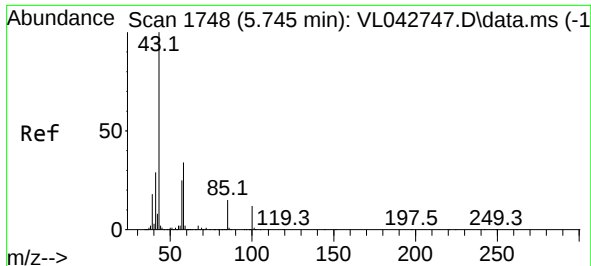


#44
2,2,4-Trimethylpentane
Concen: 0.175 ppbv m
RT: 4.645 min Scan# 1408
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48



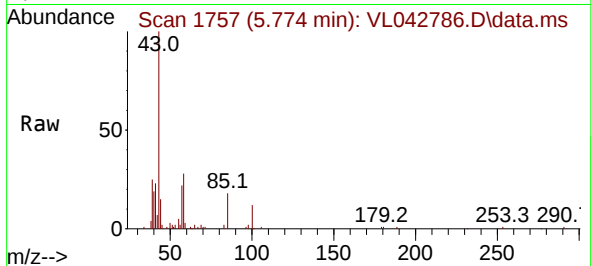
Tgt Ion: 57 Resp: 10747
Ion Ratio Lower Upper
57 100
41 0.0 28.3 42.5#
56 0.0 25.8 38.6#





#50
4-Methyl-2-Pentanone
Concen: 1.011 ppbv m
RT: 5.774 min Scan# 1757
Delta R.T. 0.029 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

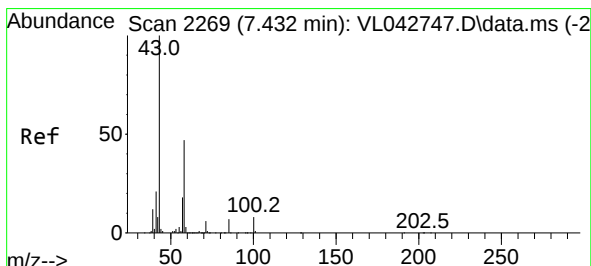
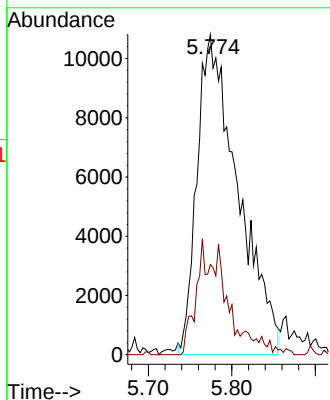
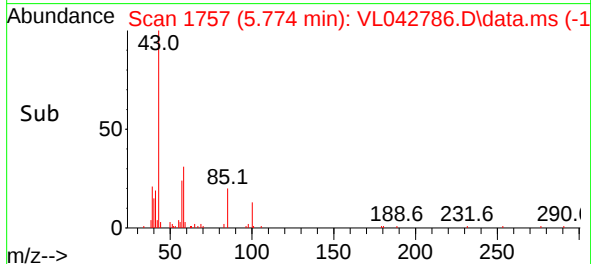
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 36734
Ion Ratio Lower Upper
43 100
58 26.7 27.8 41.8

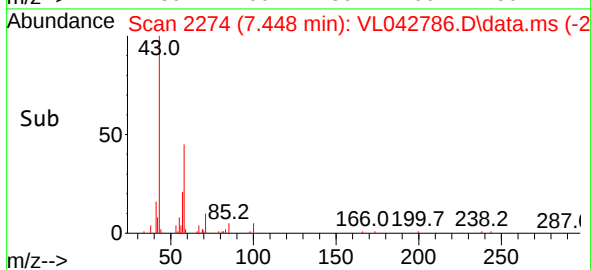
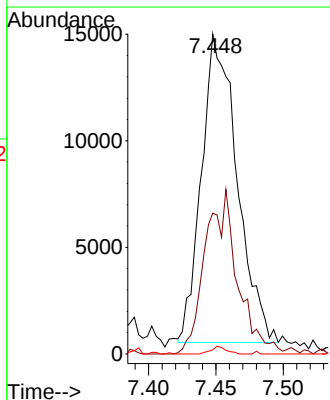
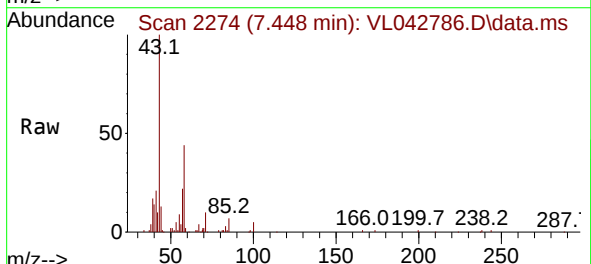
Manual Integrations
APPROVED

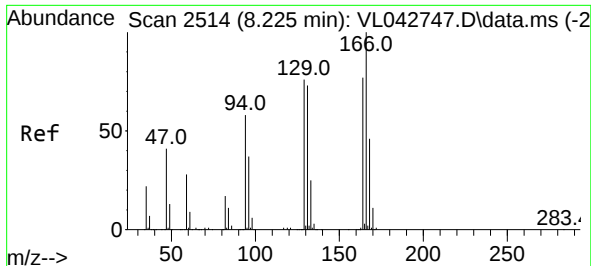
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#51
2-Hexanone
Concen: 0.971 ppbv
RT: 7.448 min Scan# 2274
Delta R.T. 0.016 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

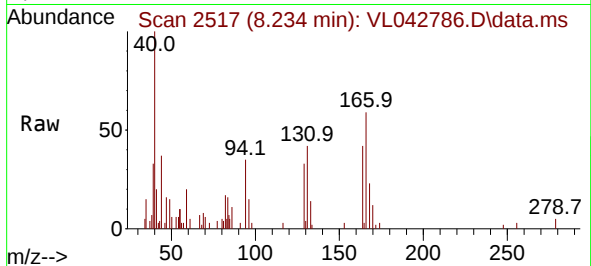
Tgt Ion: 43 Resp: 26639
Ion Ratio Lower Upper
43 100
58 49.5 38.0 57.0
98 1.0 0.2 0.4





#52
Tetrachloroethene
Concen: 0.105 ppbv m
RT: 8.234 min Scan# 2117
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

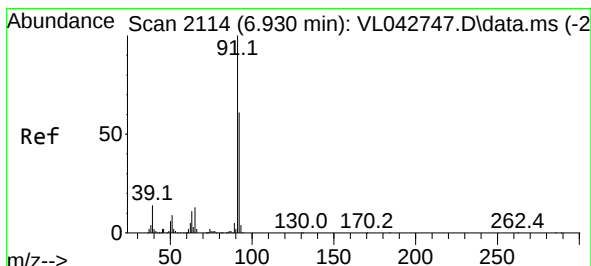
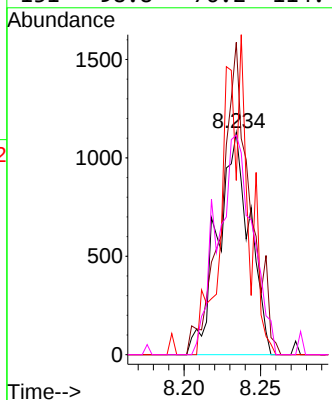
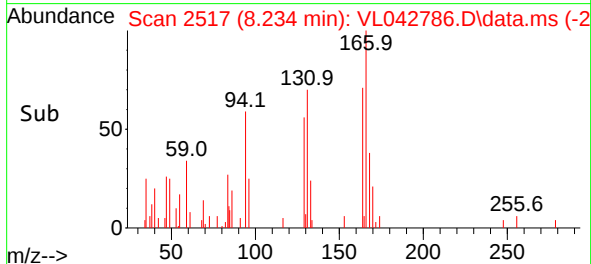
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 1644
Ion Ratio Lower Upper
164 100
166 140.7 104.0 156.0
129 78.5 79.2 118.8
131 98.8 76.2 114.4

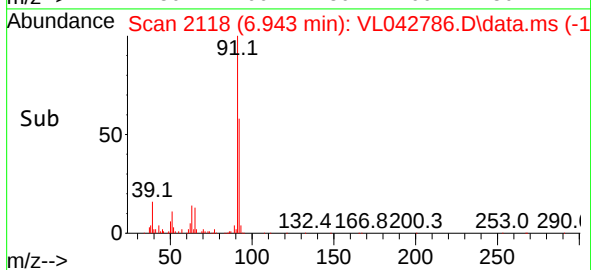
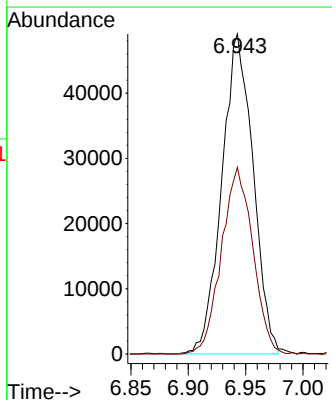
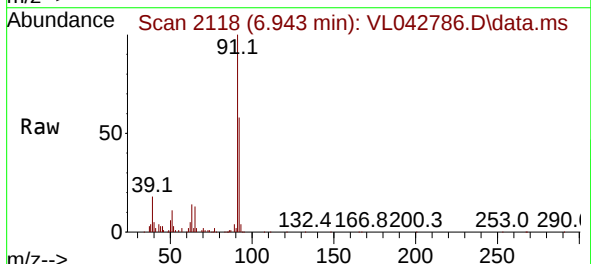
Manual Integrations
APPROVED

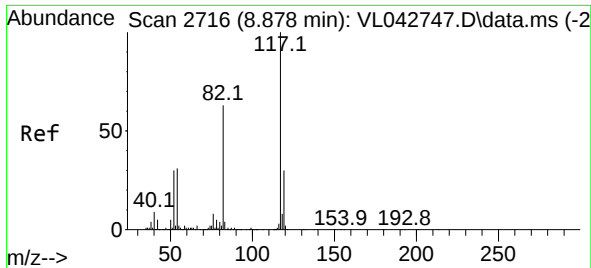
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#53
Toluene
Concen: 2.295 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. 0.013 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 91 Resp: 92975
Ion Ratio Lower Upper
91 100
92 58.7 48.0 72.0





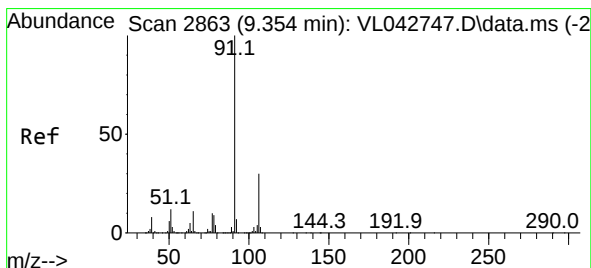
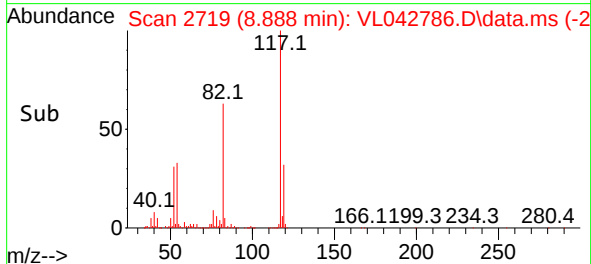
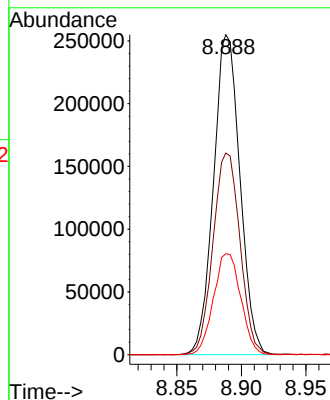
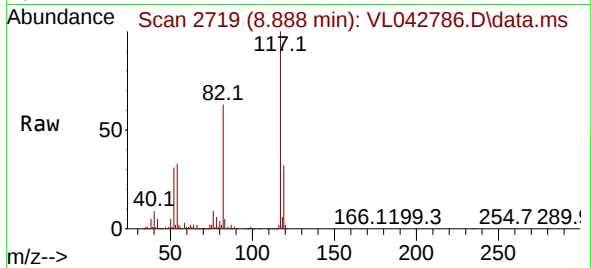
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2716
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:117 Resp: 363372
Ion Ratio Lower Upper
117 100
82 64.2 53.3 79.9
119 32.6 25.8 38.6

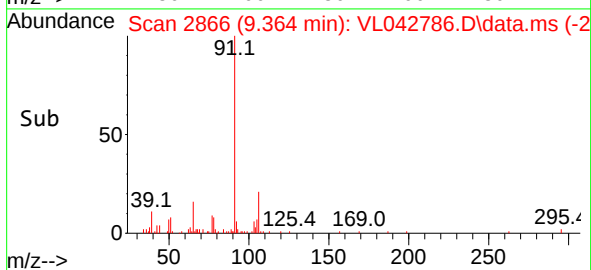
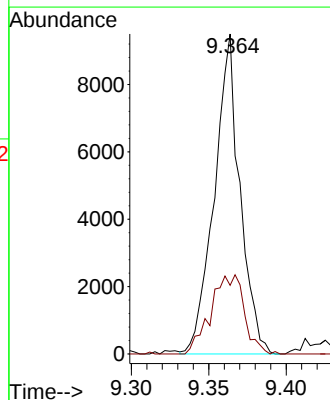
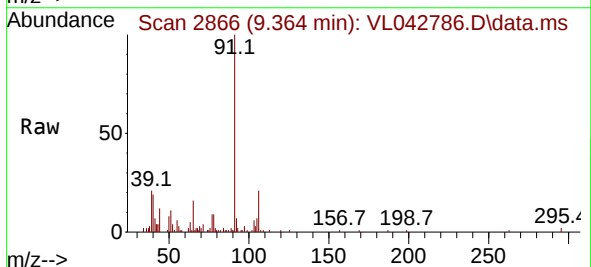
Manual Integrations
APPROVED

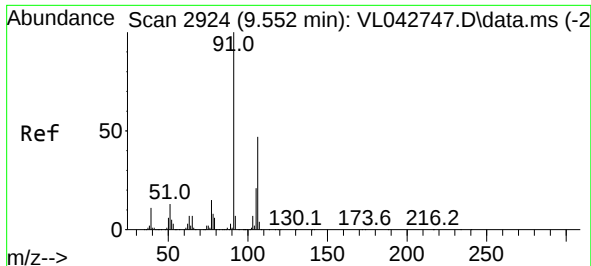
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#58
Ethyl Benzene
Concen: 0.190 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Tgt Ion: 91 Resp: 10925
Ion Ratio Lower Upper
91 100
106 21.5 23.8 35.6#





#59

m/p-Xylene

Concen: 0.810 ppbv

RT: 9.535 min Scan# 2919

Delta R.T. -0.016 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 3715

Ion Ratio Lower Upper

91 100

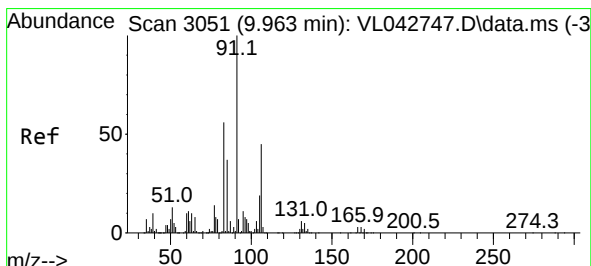
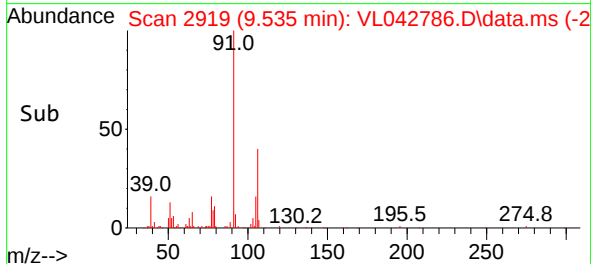
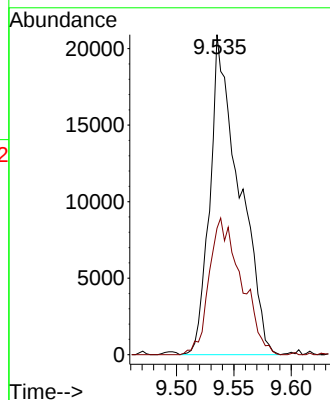
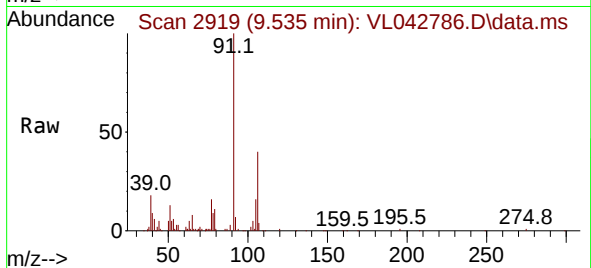
106 47.0 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#60

o-Xylene

Concen: 0.392 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.010 min

Lab File: VL042786.D

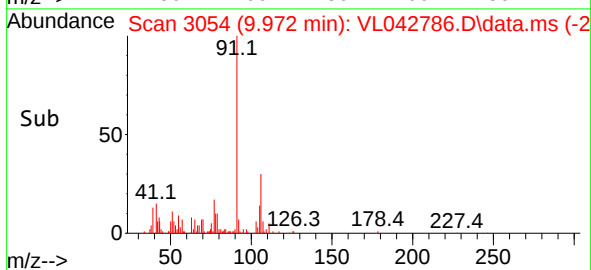
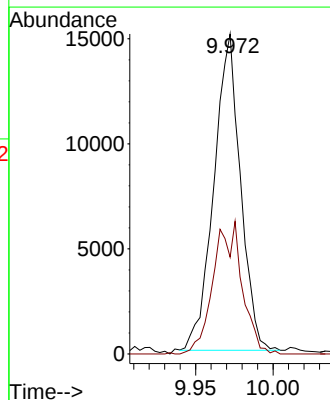
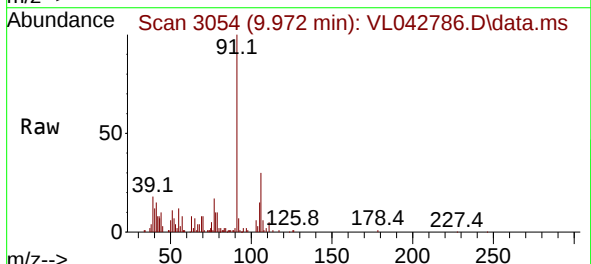
Acq: 29 Jul 2025 16:48

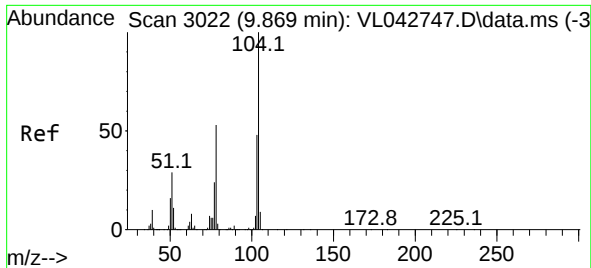
Tgt Ion: 91 Resp: 17984

Ion Ratio Lower Upper

91 100

106 45.3 22.0 66.0





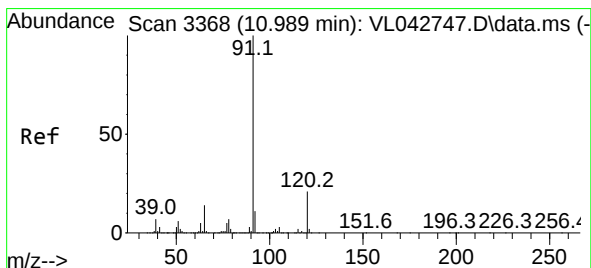
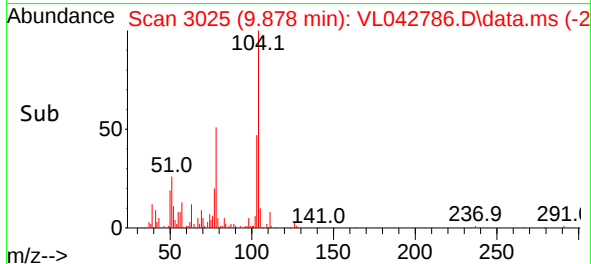
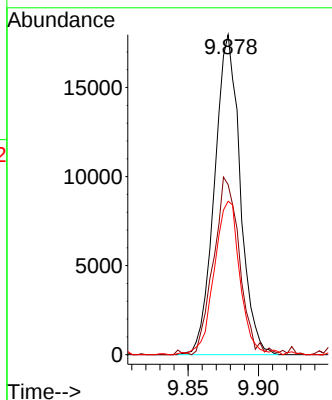
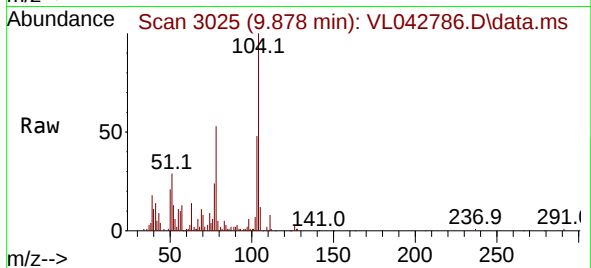
#61
Styrene
Concen: 1.181 ppbv
RT: 9.878 min Scan# 3022
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:104 Resp: 22758
Ion Ratio Lower Upper
104 100
78 56.5 41.5 62.3
103 48.8 37.5 56.3

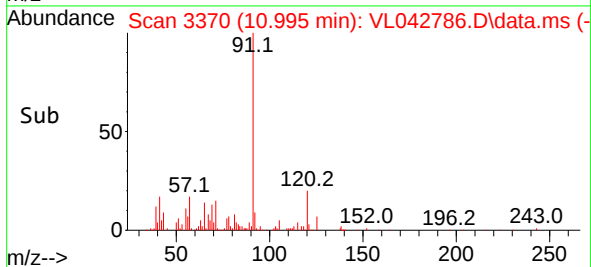
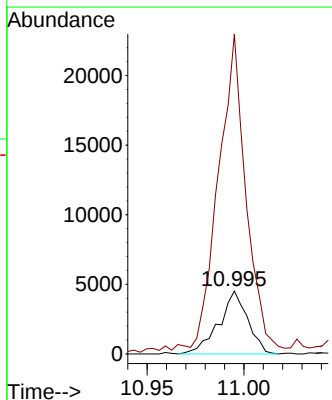
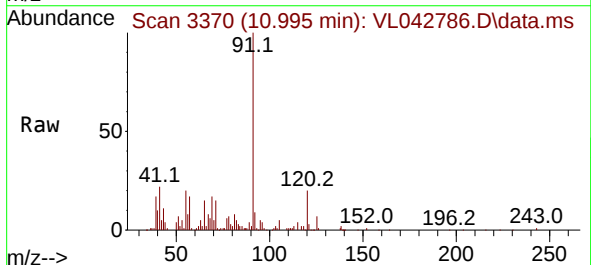
Manual Integrations
APPROVED

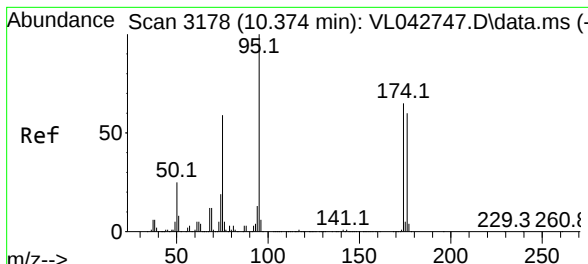
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025



#64
n-propylbenzene
Concen: 0.266 ppbv
RT: 10.995 min Scan# 3370
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

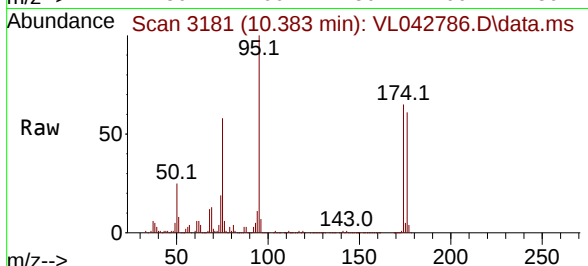
Tgt Ion:120 Resp: 4688
Ion Ratio Lower Upper
120 100
91 504.5 372.7 559.1





#68
1-Bromo-4-Fluorobenzene
Concen: 10.406 ppbv
RT: 10.383 min Scan# 3178
Delta R.T. 0.010 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

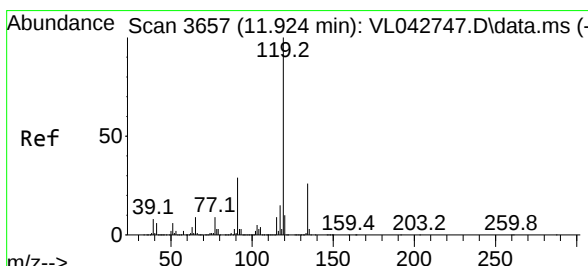
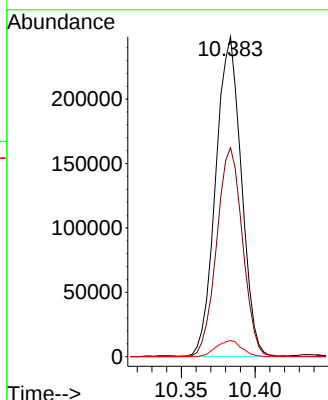
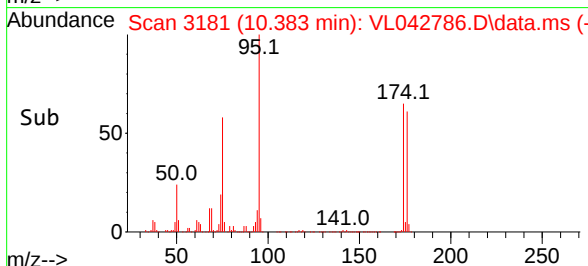
Instrument :
MSVOA_L
ClientSampleId :
IA1



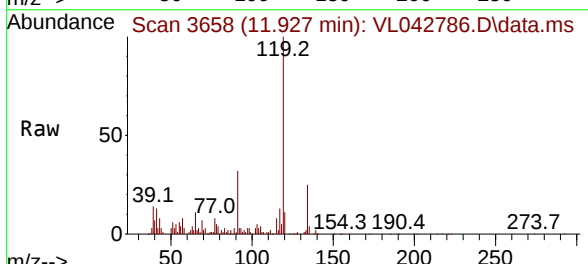
Tgt Ion: 95 Resp: 29945
Ion Ratio Lower Upper
95 100
174 66.1 53.8 80.6
175 5.1 4.0 6.0

Manual Integrations
APPROVED

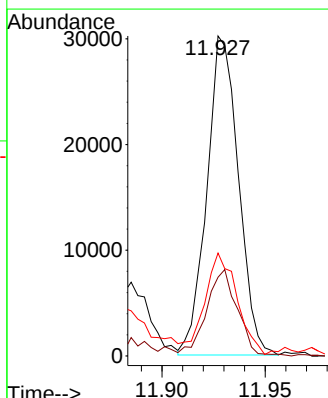
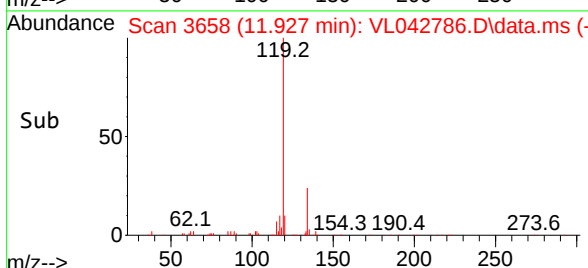
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

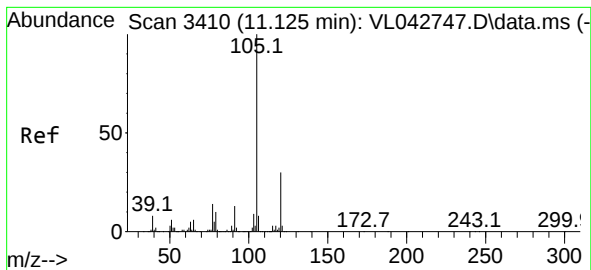


#69
p-Isopropyltoluene
Concen: 0.461 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48



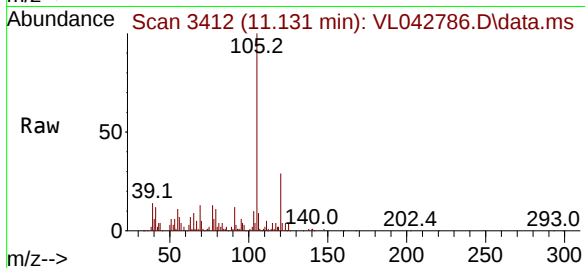
Tgt Ion:119 Resp: 32129
Ion Ratio Lower Upper
119 100
134 32.5 20.6 31.0#
91 33.3 23.2 34.8





#72
4-Ethyltoluene
Concen: 0.419 ppbv
RT: 11.131 min Scan# 3410
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

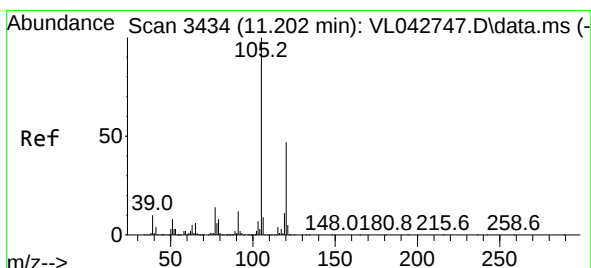
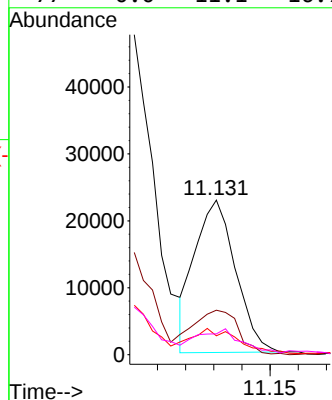
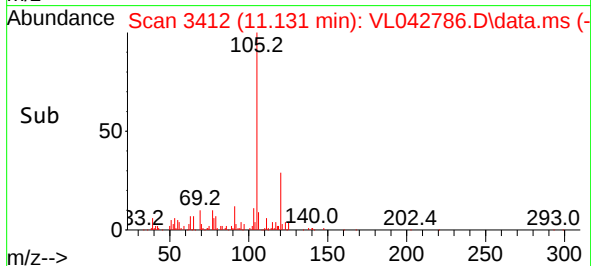
Instrument :
MSVOA_L
ClientSampleId :
IA1



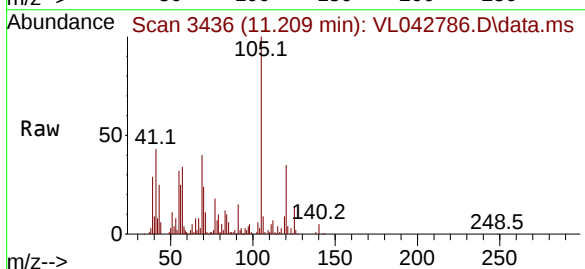
Tgt Ion:105 Resp: 22908
Ion Ratio Lower Upper
105 100
120 0.0 24.4 36.6
91 0.0 10.6 15.8
77 0.0 11.1 16.7#

Manual Integrations
APPROVED

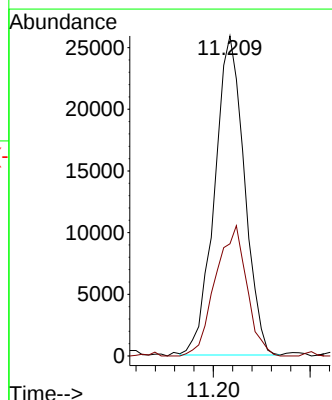
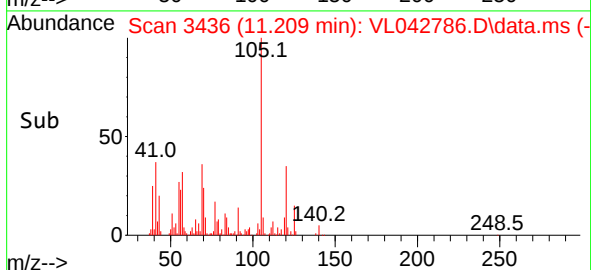
Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025

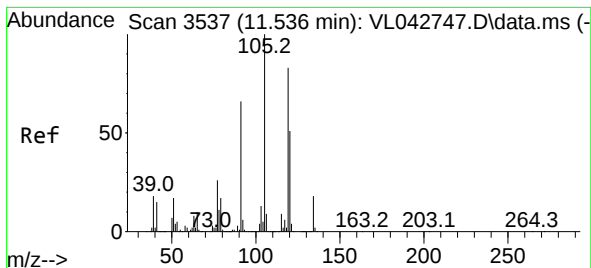


#73
1,3,5-Trimethylbenzene
Concen: 0.613 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. 0.006 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48



Tgt Ion:105 Resp: 27631
Ion Ratio Lower Upper
105 100
120 35.2 37.8 56.8#





#74

1,2,4-Trimethylbenzene

Concen: 2.113 ppbv

RT: 11.542 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

Instrument :

MSVOA_L

ClientSampleId :

IA1

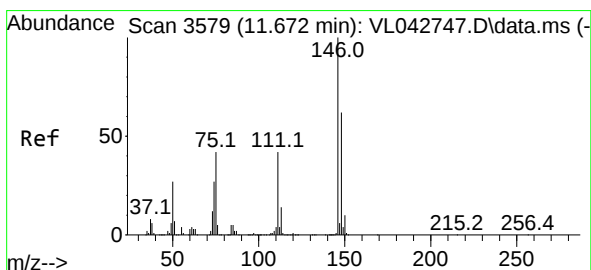
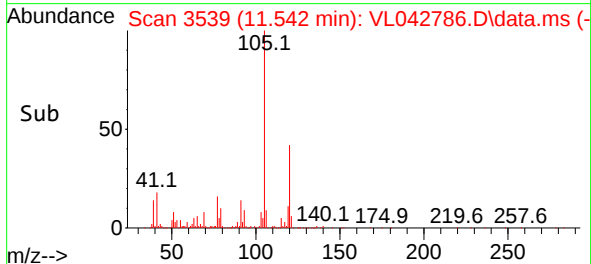
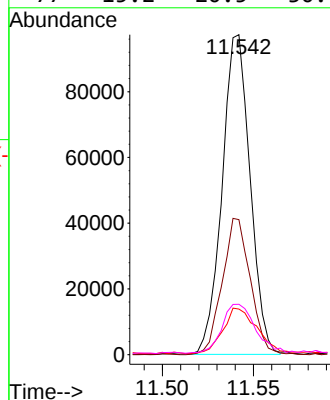
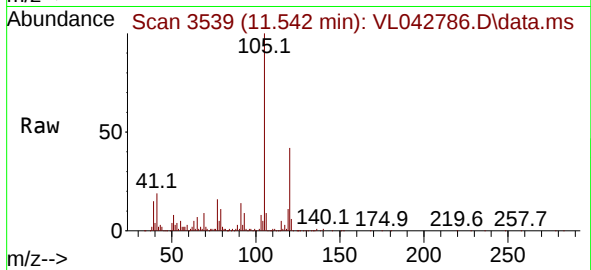
Tgt Ion:105	Resp: 103870
Ion Ratio	Lower Upper
105 100	
120 42.1	40.8 61.2
91 13.7	53.0 79.4
77 15.2	20.5 30.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025

Supervised By :Mahesh Dadoda 07/30/2025



#76

1,4-Dichlorobenzene

Concen: 0.250 ppbv

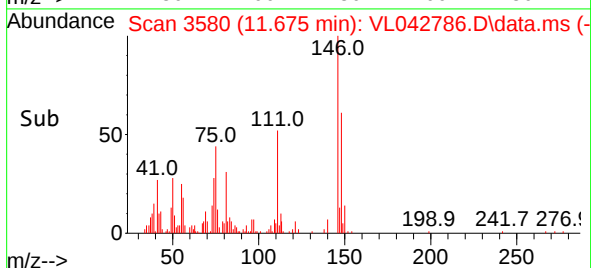
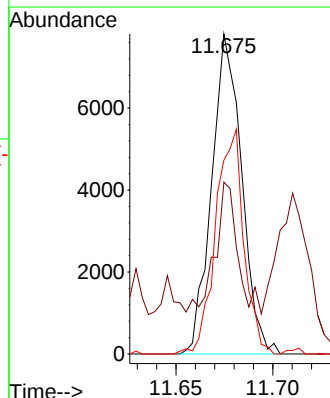
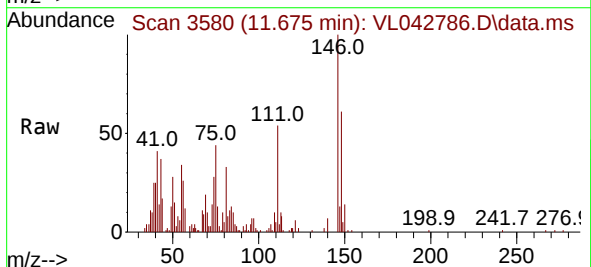
RT: 11.675 min Scan# 3580

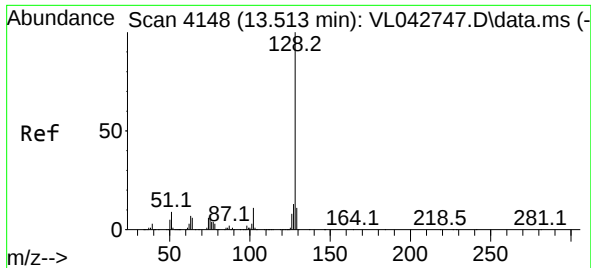
Delta R.T. 0.003 min

Lab File: VL042786.D

Acq: 29 Jul 2025 16:48

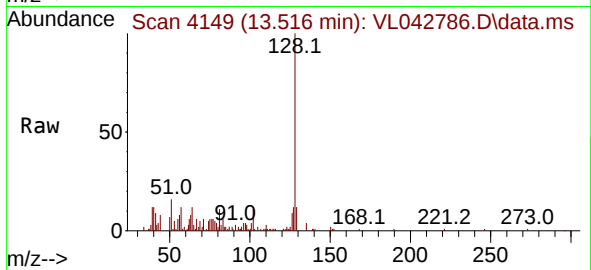
Tgt Ion:146	Resp: 8416
Ion Ratio	Lower Upper
146 100	
111 55.8	21.4 64.2
148 66.5	32.1 96.3





#79
Naphthalene
Concen: 0.676 ppbv
RT: 13.516 min Scan# 4149
Delta R.T. 0.003 min
Lab File: VL042786.D
Acq: 29 Jul 2025 16:48

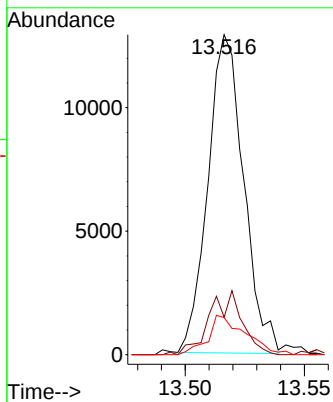
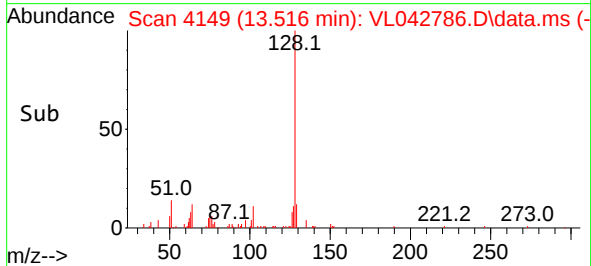
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:128 Resp: 1345
Ion Ratio Lower Upper
128 100
127 11.8 10.5 15.7
129 11.7 8.6 13.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
Supervised By :Mahesh Dadoda 07/30/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GFEL01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q2712</u>
Instrument ID: <u>MSVOA_L</u>	Calibration Date(s): <u>07/23/2025</u> <u>07/23/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>08:58</u> <u>13:00</u>
GC Column: <u>RTX-1</u> ID: <u>0.32</u> (mm)	

LAB FILE ID:		RRF010 = VL042747.D		RRF002 = VL042748.D		RRF001 = VL042749.D		
		RRF0.5 = VL042750.D		RRF.03 = VL042752.D		RRF015 = VL042753.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF.03	RRF015	RRF	% RSD
Vinyl Chloride	0.411	0.485	0.476	0.516	0.825	0.437	0.528	26.3
1,1-Dichloroethene	0.404	0.453	0.530	0.536		0.417	0.468	13.2
cis-1,2-Dichloroethene	1.306	1.414	1.406	1.459		1.304	1.378	5.1
1,1,1-Trichloroethane	1.957	2.132	2.048	2.133	2.522	1.985	2.158	9.4
Trichloroethene	0.408	0.445	0.459	0.452	0.511	0.409	0.455	9
Tetrachloroethene	0.339	0.378	0.394	0.374	0.504	0.339	0.393	14.5
1-Bromo-4-Fluorobenzene	0.801	0.805	0.799	0.782	0.780	0.818	0.792	2.5

* 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 : VL072325AIR.M

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

Last Update : Thu Jul 24 05:24:41 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042752.D 0.1 =VL042754.D 0.5 =VL042750.D 1 =VL042749.D 2 =VL042748.D 10 =VL042747.D 15 =VL042753.D

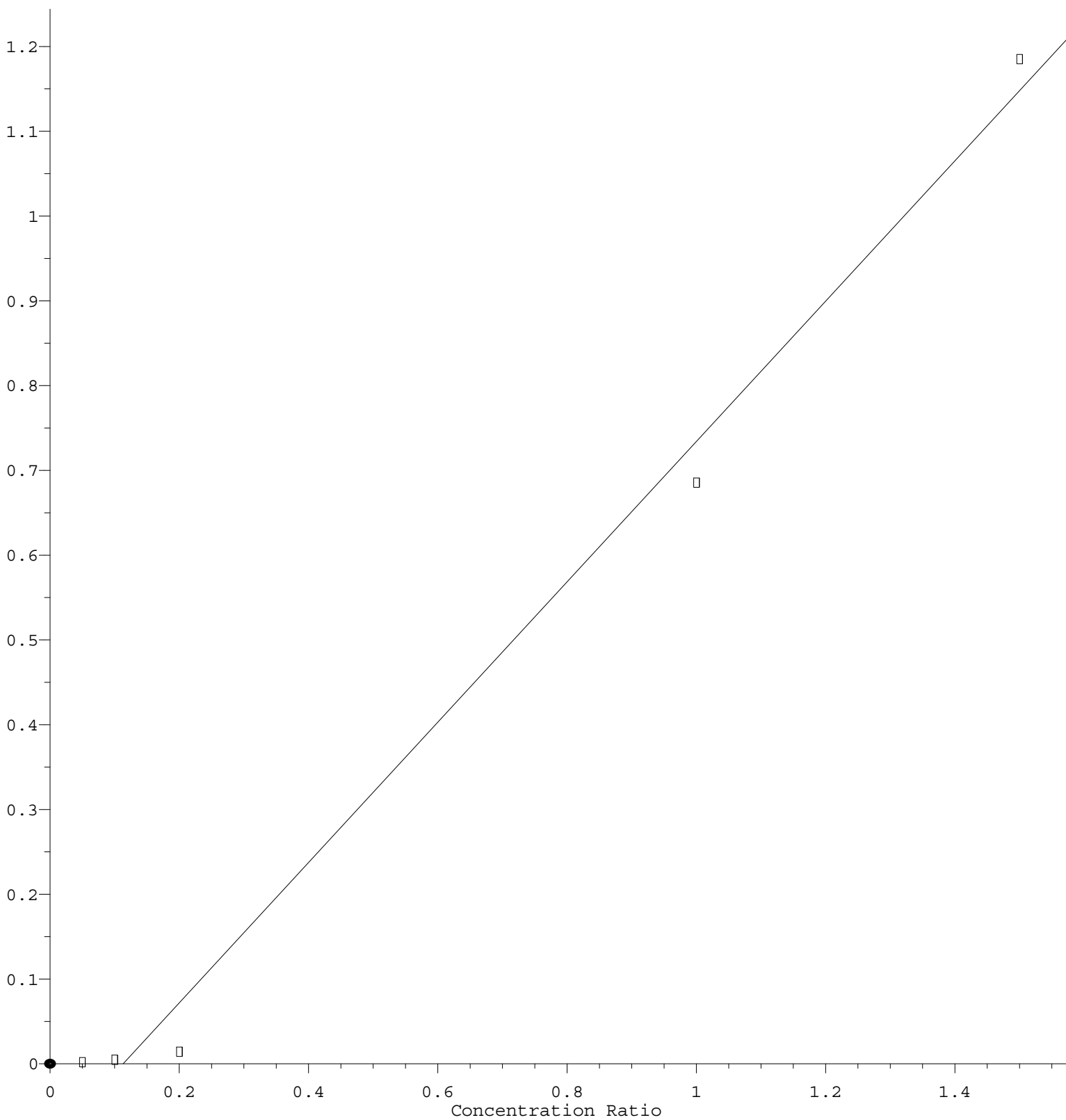
Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
-----ISTD-----									
1) I Bromochloromethane									
2) T Dichlorodifluo...			1.468	1.339	1.377	1.198	1.229	1.322	8.34
3) Chlorodifluoro...			1.890	1.757	1.772	1.625	1.567	1.722	7.41
4) Chloromethane			0.585	0.579	0.531	0.484	0.495	0.535	8.70
5) T Vinyl Chloride	0.825	0.549	0.516	0.476	0.485	0.411	0.437	0.528	26.27
6) T Bromomethane			0.227	0.239	0.181	0.178	0.196	0.204	13.52
7) Chloroethane			0.278	0.196	0.189	0.177	0.181	0.204	20.51
8) T Dichlorotetra...			1.186	1.130	1.123	0.980	1.017	1.087	7.89
9) T Propene			0.621	0.662	0.681	0.594	0.572	0.626	7.25
10) T Heptane			1.719	1.672	1.780	1.633	1.635	1.688	3.68
11) T Trichlorofluor...			1.457	1.435	1.412	1.226	1.285	1.363	7.47
12) T 1,1,2-Trichlor...			1.115	1.063	1.069	0.940	0.991	1.036	6.67
13) Ethanol			0.141	0.104	0.073	0.050	0.049	0.083	46.80
14) T Bromoethene			0.393	0.379	0.381	0.337	0.343	0.367	6.76
15) T Acetone			1.853	1.479	1.521	0.998	1.054	1.381	25.75
16) T 1,3-Butadiene			0.726	0.602	0.583	0.509	0.524	0.589	14.57
17) tert-Butyl alc...			1.366	1.275	1.265	1.165	1.156	1.245	7.01
18) T 1,1-Dichloroet...			0.536	0.530	0.453	0.404	0.417	0.468	13.20
19) T Isopropyl Alcohol			0.857	0.764	0.726	0.659	0.663	0.734	11.12
20) T Methylene Chlo...			0.595	0.458	0.419	0.337	0.367	0.435	23.16
21) T Allyl Chloride			0.903	0.856	0.876	0.798	0.821	0.851	4.92
22) T trans-1,2-Dich...			0.553	0.506	0.523	0.460	0.475	0.503	7.46
23) T Vinyl Acetate			1.643	1.502	1.688	1.704	1.833	1.674	7.14
24) T 1,1-Dichloroet...			1.053	1.117	1.071	0.945	0.981	1.033	6.75
25) T Ethyl Acetate			3.125	3.122	3.212	2.954	2.870	3.056	4.57
26) T Hexane			1.325	1.425	1.433	1.281	1.240	1.341	6.43
27) T Carbon Disulfide			1.146	1.183	1.165	1.088	1.157	1.148	3.13
28) T Methyl tert-Bu...			0.653	0.613	0.650	0.556	0.696	0.633	8.28
29) T Chloroform			2.261	2.104	2.136	1.915	1.943	2.072	6.92
30) T Cyclohexane			1.137	1.140	1.201	1.125	1.083	1.137	3.74
31) T cis-1,2-Dichlo...			1.459	1.406	1.414	1.306	1.304	1.378	5.05
32) T 1,1,1-Trichlor...	2.522	2.330	2.133	2.048	2.132	1.957	1.985	2.158	9.39
-----ISTD-----									
33) I 1,4-Difluorobenzene									
34) T 2-Butanone			0.730	0.713	0.761	0.663	0.675	0.708	5.64
35) T Carbon Tetrach...	0.950	0.692	0.681	0.709	0.735	0.701	0.731	0.743	12.56
36) T Benzene			0.976	0.971	0.995	0.896	0.900	0.948	4.86
37) T 1,2-Dichloroet...			0.595	0.585	0.584	0.537	0.553	0.571	4.34
38) T Trichloroethene	0.511	0.503	0.452	0.459	0.445	0.408	0.409	0.455	8.97
39) T 1,2-Dichloropr...			0.371	0.362	0.363	0.324	0.330	0.350	6.13

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL072325AIR.M										
40) T	1,4-Dioxane			0.177	0.170	0.174	0.141	0.153	0.163	9.36
41) T	Tetrahydrofuran			0.361	0.350	0.367	0.362	0.362	0.360	1.74
42) T	Bromodichlorom...			0.720	0.761	0.755	0.723	0.759	0.744	2.75
43) T	Methyl Methacr...			0.321	0.324	0.331	0.348	0.361	0.337	5.05
44) T	2,2,4-Trimethy...			1.515	1.585	1.634	1.486	1.503	1.545	4.03
45) T	t-1,3-Dichloro...			0.357	0.340	0.375	0.402	0.415	0.378	8.21
46) T	cis-1,3-Dichlo...			0.435	0.459	0.479	0.507	0.514	0.479	6.95
47) T	1,1,2-Trichlor...			0.393	0.384	0.385	0.347	0.356	0.373	5.41
48) T	Dibromochlorom...			0.569	0.571	0.600	0.600	0.619	0.592	3.61
49) T	Bromoform			0.483	0.502	0.517	0.529	0.549	0.516	4.87
50) T	4-Methyl-2-Pen...			0.876	0.907	0.956	0.895	0.928	0.912	3.39
51) T	2-Hexanone			0.573	0.647	0.744	0.726	0.757	0.690	11.25
52) T	Tetrachloroethene	0.504	0.422	0.374	0.394	0.378	0.339	0.339	0.393	14.53
53) T	Toluene			0.954	0.993	1.074	1.022	1.045	1.018	4.55
54) T	1,2-Dibromoethane		0.498	0.550	0.531	0.539	0.514	0.529	0.527	3.51
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.548	0.520	0.541	0.484	0.508	0.520	4.96
57) T	Chlorobenzene			1.019	1.019	1.016	0.879	0.905	0.968	7.22
58) T	Ethyl Benzene			1.426	1.548	1.744	1.551	1.627	1.579	7.40
59) T	m/p-Xylene			1.151	1.275	1.354	1.234	1.296	1.262	6.00
60) T	o-Xylene			1.155	1.280	1.381	1.225	1.264	1.261	6.55
61) T	Styrene			0.450	0.495	0.552	0.561	0.594	0.531	10.81
62) T	Isopropylbenzene			1.722	1.885	2.034	1.793	1.866	1.860	6.27
63) T	1,1,2,2-Tetrac...	1.105	0.785	0.761	0.795	0.803	0.693	0.726	0.810	16.82
64) T	n-propylbenzene			0.437	0.490	0.533	0.469	0.496	0.485	7.31
65) T	tert-Butylbenzene			1.496	1.669	1.839	1.606	1.652	1.652	7.52
66) T	Benzyl Chloride			0.114	0.115	0.128	0.159	0.163	0.136	17.43
67) T	sec-Butylbenzene			2.162	2.474	2.592	2.225	2.297	2.350	7.61
68) S	1-Bromo-4-Fluo...	0.780	0.759	0.782	0.799	0.805	0.801	0.818	0.792	2.50
69) T	p-Isopropyltol...			1.620	1.907	2.137	1.928	1.989	1.916	9.83
70) T	n-Butylbenzene			1.422	1.811	2.090	1.939	1.994	1.851	14.06
71) T	2-Chlorotoluene			1.331	1.444	1.522	1.385	1.451	1.426	5.08
72) T	4-Ethyltoluene			1.292	1.493	1.632	1.524	1.589	1.506	8.74
73) T	1,3,5-Trimethy...			1.096	1.193	1.315	1.275	1.321	1.240	7.70
74) T	1,2,4-Trimethy...			1.115	1.345	1.489	1.384	1.432	1.353	10.61
75) T	1,3-Dichlorobe...			0.914	0.970	1.038	0.887	0.933	0.948	6.14
76) T	1,4-Dichlorobe...			0.862	0.927	1.016	0.896	0.940	0.928	6.19
77) T	1,2-Dichlorobe...			0.920	0.996	1.002	0.848	0.894	0.932	7.10
78) T	Hexachloro-1,3...			0.897	0.908	0.953	0.712	0.748	0.844	12.62
79) T	Naphthalene		0.638	0.485	0.727	0.964	1.417	1.517	0.958	44.34
80) T	Naphthalene,2-...			0.036	0.048	0.071	0.685	0.790	0.326	115.91
81) T	1,2,4-Trichlor...			0.365	0.535	0.627	0.800	0.849	0.635	31.11

(#) = Out of Range

Naphthalene, 2-methyl-

Response Ratio



$$\text{Response} = 8.275\text{e-}001 * \text{Amt} - 9.337\text{e-}002$$

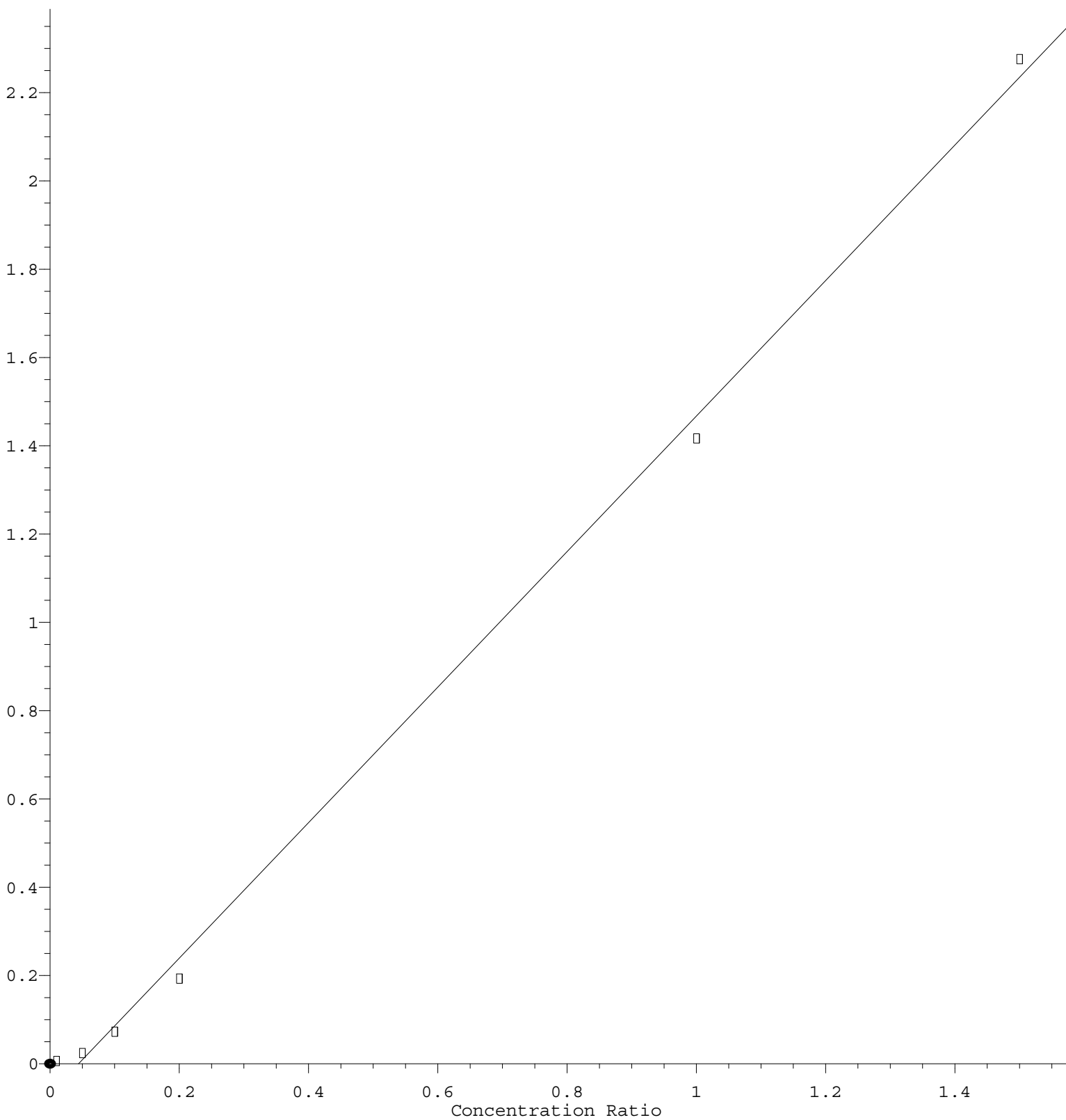
Coef of Det (r^2) = 0.991172 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

Naphthalene

Response Ratio



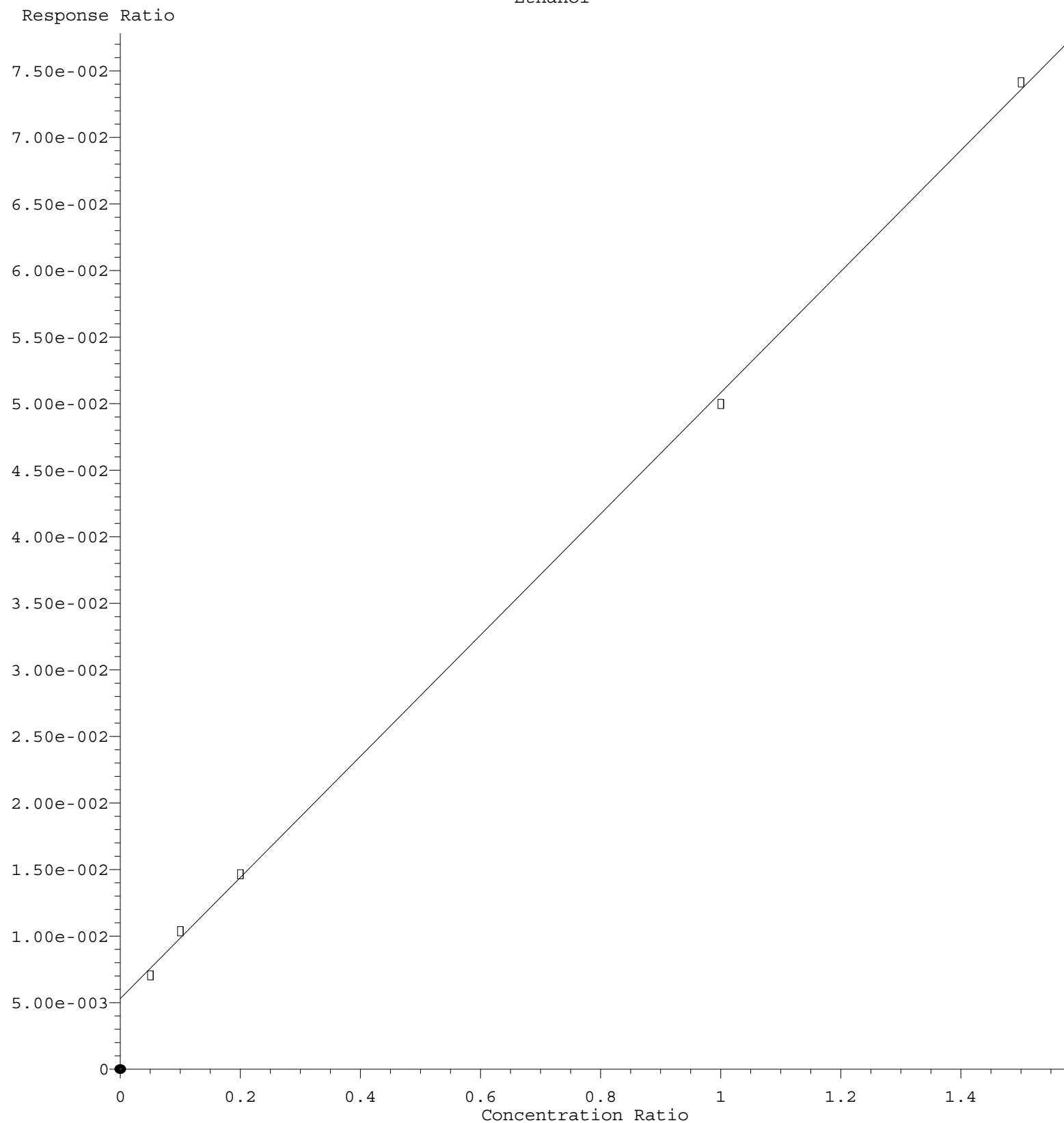
$$\text{Response} = 1.535\text{e}+000 * \text{Amt} - 6.678\text{e}-002$$

Coef of Det (r^2) = 0.997757 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

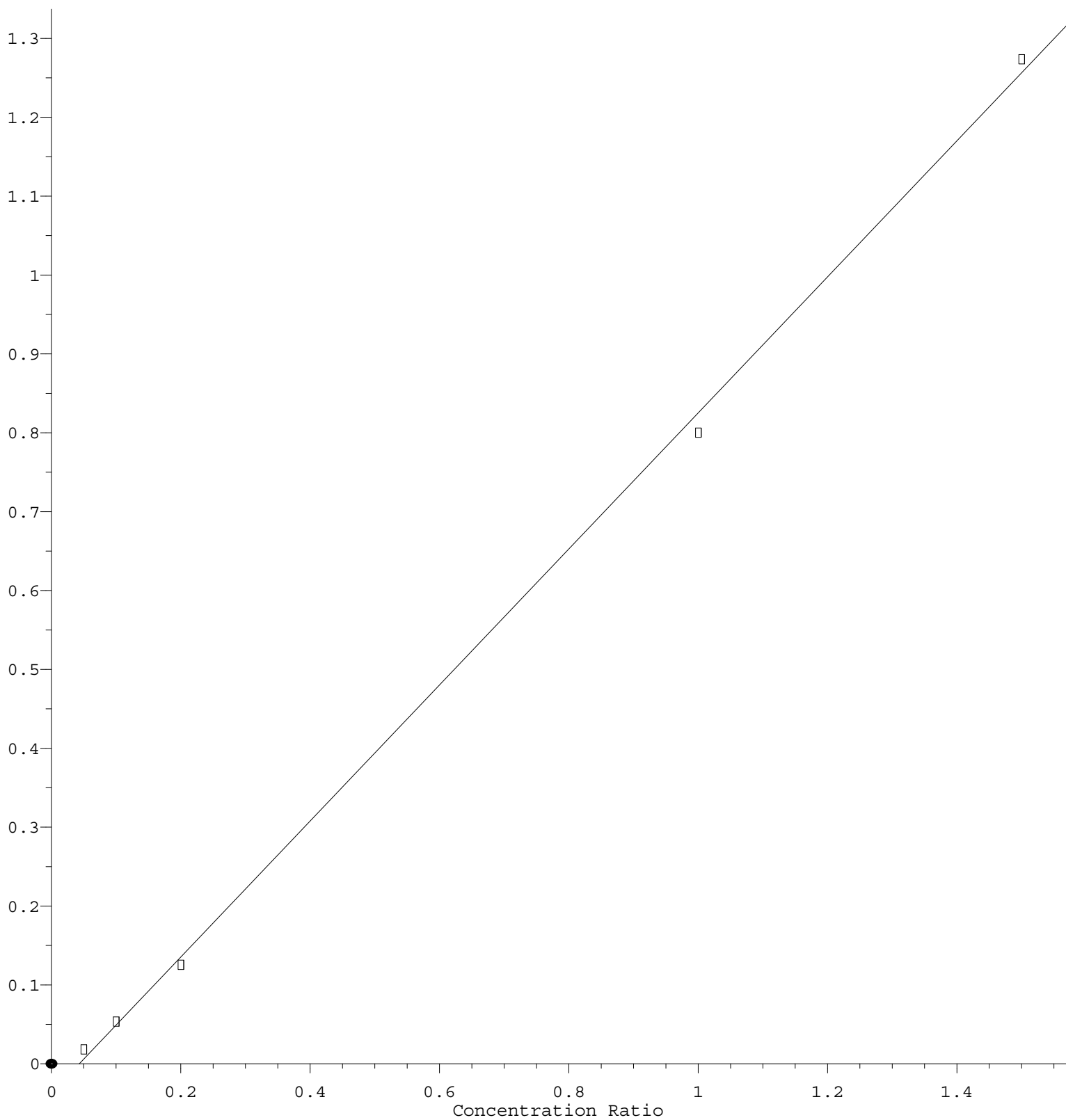
Ethanol



Response = 4.558e-002 * Amt + 5.251e-003
 Coef of Det (r^2) = 0.999534 Curve Fit: Linear
 Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M
 Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

1,2,4-Trichlorobenzene

Response Ratio



$$\text{Response} = 8.625\text{e-}001 * \text{Amt} - 3.751\text{e-}002$$

Coef of Det (r^2) = 0.999044 Curve Fit: Linear

Method Name: Z:\voasrv\HPCHEM1\MSVOA L\methods\VL072325AIR.M

Calibration Table Last Updated: Thu Jul 24 05:24:41 2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	159080	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	462763	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	422206	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.374 95 338271 10.117 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	190592	9.062	ppbv	100
3) Chlorodifluoromethane	1.476	51	258542	9.436	ppbv	100
4) Chloromethane	1.531	50	77006	9.050	ppbv	100
5) Vinyl Chloride	1.580	62	65346	7.773	ppbv	100
6) Bromomethane	1.667	94	28292	8.705	ppbv	100
7) Chloroethane	1.703	64	28085	8.646	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	155875	9.011	ppbv	100
9) Propene	1.483	41	94480	9.488	ppbv	100
10) Heptane	4.975	43	259821	9.701	ppbv	100
11) Trichlorofluoromethane	1.878	101	194964	8.992	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	149612	9.081	ppbv	100
13) Ethanol	1.719	45	7949	9.867	ppbv	97
14) Bromoethene	1.780	108	53625	9.193	ppbv	100
15) Acetone	1.835	43	158714	7.225	ppbv	100
16) 1,3-Butadiene	1.609	39	80968	8.642	ppbv	100
17) tert-Butyl alcohol	2.039	59	185262	9.351	ppbv	100
18) 1,1-Dichloroethene	2.033	96	64224	8.627	ppbv	100
19) Isopropyl Alcohol	1.884	45	104903	8.987	ppbv	100
20) Methylene Chloride	2.059	84	53581	7.740	ppbv	100
21) Allyl Chloride	2.094	41	127021	9.382	ppbv	100
22) trans-1,2-Dichloroethene	2.340	96	73152	9.148	ppbv	100
23) Vinyl Acetate	2.460	43	271125	10.181	ppbv	100
24) 1,1-Dichloroethane	2.408	63	150257	9.141	ppbv	100
25) Ethyl Acetate	2.832	43	469997	9.666	ppbv	100
26) Hexane	2.826	57	203800	9.555	ppbv	100
27) Carbon Disulfide	2.149	76	173105	9.480	ppbv	100
28) Methyl tert-Butyl Ether	2.437	73	88372	8.770	ppbv	100
29) Chloroform	2.845	83	304670	9.244	ppbv	100
30) Cyclohexane	3.852	84	178948	9.892	ppbv	100
31) cis-1,2-Dichloroethene	2.719	61	207751	9.479	ppbv	100
32) 1,1,1-Trichloroethane	3.366	97	311368	9.069	ppbv	100
34) 2-Butanone	2.554	43	306858	9.361	ppbv	100
35) Carbon Tetrachloride	3.758	117	324501	9.436	ppbv	100
36) Benzene	3.654	78	414863	9.459	ppbv	100
37) 1,2-Dichloroethane	3.217	62	248414	9.403	ppbv	100
38) Trichloroethene	4.545	130	188750	8.926	ppbv	100
39) 1,2-Dichloropropane	4.311	63	149771	9.251	ppbv	100
40) 1,4-Dioxane	4.580	88	65413	8.569	ppbv #	100
41) Tetrahydrofuran	3.049	42	167323	10.160	ppbv	100
42) Bromodichloromethane	4.483	83	334531	9.713	ppbv	100
43) Methyl Methacrylate	4.875	69	161053	10.331	ppbv	100
44) 2,2,4-Trimethylpentane	4.638	57	687885	9.623	ppbv	100
45) t-1,3-Dichloropropene	6.412	75	185965	10.633	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042747.D
 Acq On : 23 Jul 2025 08:58
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:07 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.596	75	234594	10.587	ppbv	100
47) 1,1,2-Trichloroethane	6.580	97	160431	9.297	ppbv	100
48) Dibromochloromethane	7.383	129	277832	10.141	ppbv	100
49) Bromoform	9.480	173	244997	10.256	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	413966	9.914	ppbv	100
51) 2-Hexanone	7.432	43	336048	10.532	ppbv	100
52) Tetrachloroethene	8.225	164	156930	8.609	ppbv	100
53) Toluene	6.930	91	472953	10.042	ppbv	100
54) 1,2-Dibromoethane	7.648	107	238045	9.745	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.924	131	204205	9.302	ppbv	100
57) Chlorobenzene	8.920	112	371117	9.082	ppbv	100
58) Ethyl Benzene	9.354	91	655020	9.824	ppbv	100
59) m/p-Xylene	9.552	91	1042332m	19.555	ppbv	
60) o-Xylene	9.963	91	517292	9.715	ppbv	100
61) Styrene	9.869	104	236709	10.568	ppbv	100
62) Isopropylbenzene	10.539	105	757219	9.641	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.963	83	292568	8.434	ppbv	100
64) n-propylbenzene	10.989	120	198109	9.675	ppbv	100
65) tert-Butylbenzene	11.529	119	678174	9.721	ppbv	100
66) Benzyl Chloride	11.617	91	66954	11.691	ppbv	100
67) sec-Butylbenzene	11.765	105	939396	9.468	ppbv	100
69) p-Isopropyltoluene	11.924	119	814010	10.061	ppbv	100
70) n-Butylbenzene	12.280	91	818457	10.473	ppbv	100
71) 2-Chlorotoluene	10.898	91	584629	9.708	ppbv	100
72) 4-Ethyltoluene	11.125	105	643519	10.120	ppbv	100
73) 1,3,5-Trimethylbenzene	11.202	105	538451	10.285	ppbv	100
74) 1,2,4-Trimethylbenzene	11.536	105	584447	10.232	ppbv	100
75) 1,3-Dichlorobenzene	11.607	146	374587	9.355	ppbv	100
76) 1,4-Dichlorobenzene	11.672	146	378093	9.649	ppbv	100
77) 1,2-Dichlorobenzene	11.947	146	358206	9.102	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	300801	8.444	ppbv	100
79) Naphthalene	13.513	128	598108	9.665	ppbv	100
80) Naphthalene,2-methyl-	14.455	142	289412	9.404	ppbv	100
81) 1,2,4-Trichlorobenzene	13.439	180	337776	9.710	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	158575	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	457804	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410740	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 330476 10.160 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	43675	2.083	ppbv	98
3) Chlorodifluoromethane	1.473	51	56214	2.058	ppbv	99
4) Chloromethane	1.531	50	16834	1.985	ppbv	100
5) Vinyl Chloride	1.576	62	15384	1.836	ppbv	92
6) Bromomethane	1.664	94	5754	1.776	ppbv	83
7) Chloroethane	1.703	64	6001	1.853	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	35629	2.066	ppbv	100
9) Propene	1.483	41	21592	2.175	ppbv	97
10) Heptane	4.965	43	56442m	2.114	ppbv	
11) Trichlorofluoromethane	1.874	101	44770	2.072	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.136	101	33910	2.065	ppbv	99
13) Ethanol	1.719	45	2321	2.155	ppbv	78
14) Bromoethene	1.780	108	12078	2.077	ppbv #	96
15) Acetone	1.832	43	48226	2.202	ppbv	100
16) 1,3-Butadiene	1.606	39	18504	1.981	ppbv	96
17) tert-Butyl alcohol	2.036	59	40135	2.032	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	14381	1.938	ppbv	93
19) Isopropyl Alcohol	1.884	45	23028	1.979	ppbv #	75
20) Methylene Chloride	2.059	84	13296	1.927	ppbv	97
21) Allyl Chloride	2.091	41	27789	2.059	ppbv	97
22) trans-1,2-Dichloroethene	2.337	96	16591m	2.081	ppbv	
23) Vinyl Acetate	2.457	43	53544	2.017	ppbv #	98
24) 1,1-Dichloroethane	2.405	63	33969	2.073	ppbv	99
25) Ethyl Acetate	2.832	43	101853	2.101	ppbv	99
26) Hexane	2.822	57	45446	2.137	ppbv	99
27) Carbon Disulfide	2.146	76	36945	2.030	ppbv #	36
28) Methyl tert-Butyl Ether	2.437	73	20603	2.051	ppbv	96
29) Chloroform	2.842	83	67755	2.062	ppbv	97
30) Cyclohexane	3.845	84	38095m	2.113	ppbv	
31) cis-1,2-Dichloroethene	2.716	61	44860	2.053	ppbv	96
32) 1,1,1-Trichloroethane	3.363	97	67608	1.976	ppbv	98
34) 2-Butanone	2.551	43	69674	2.149	ppbv	99
35) Carbon Tetrachloride	3.755	117	67338	1.979	ppbv	97
36) Benzene	3.648	78	91141	2.101	ppbv	94
37) 1,2-Dichloroethane	3.211	62	53482	2.046	ppbv	98
38) Trichloroethene	4.538	130	40713	1.946	ppbv	90
39) 1,2-Dichloropropane	4.305	63	33225	2.075	ppbv	94
40) 1,4-Dioxane	4.583	88	15890m	2.104	ppbv	
41) Tetrahydrofuran	3.052	42	33618	2.064	ppbv	94
42) Bromodichloromethane	4.480	83	69093	2.028	ppbv	94
43) Methyl Methacrylate	4.871	69	30336	1.967	ppbv	95
44) 2,2,4-Trimethylpentane	4.632	57	149588	2.115	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	34331m	1.984	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042748.D
 Acq On : 23 Jul 2025 09:34
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:56:50 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	43845m	2.000	ppbv	
47) 1,1,2-Trichloroethane	6.567	97	35222m	2.063	ppbv	
48) Dibromochloromethane	7.380	129	54906	2.026	ppbv	96
49) Bromoform	9.477	173	47340	2.003	ppbv	96
50) 4-Methyl-2-Pentanone	5.748	43	87566m	2.120	ppbv	
51) 2-Hexanone	7.431	43	68093	2.157	ppbv #	99
52) Tetrachloroethene	8.215	164	34568	1.917	ppbv	94
53) Toluene	6.923	91	98346	2.111	ppbv	100
54) 1,2-Dibromoethane	7.645	107	49346	2.042	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.920	131	44409	2.079	ppbv	92
57) Chlorobenzene	8.914	112	83503	2.101	ppbv #	92
58) Ethyl Benzene	9.348	91	143251	2.208	ppbv	97
59) m/p-Xylene	9.545	91	222465m	4.290	ppbv	
60) o-Xylene	9.956	91	113462	2.190	ppbv	99
61) Styrene	9.865	104	45351	2.081	ppbv	100
62) Isopropylbenzene	10.535	105	167108	2.187	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.959	83	65928	1.954	ppbv	100
64) n-propylbenzene	10.982	120	43789	2.198	ppbv	98
65) tert-Butylbenzene	11.526	119	151081	2.226	ppbv	98
66) Benzyl Chloride	11.610	91	10485	1.882	ppbv	98
67) sec-Butylbenzene	11.762	105	212925	2.206	ppbv	99
69) p-Isopropyltoluene	11.921	119	175553	2.230	ppbv	99
70) n-Butylbenzene	12.277	91	171675	2.258	ppbv	99
71) 2-Chlorotoluene	10.898	91	125039	2.134	ppbv	98
72) 4-Ethyltoluene	11.121	105	134097	2.168	ppbv	98
73) 1,3,5-Trimethylbenzene	11.199	105	108055	2.122	ppbv	97
74) 1,2,4-Trimethylbenzene	11.532	105	122295	2.201	ppbv	95
75) 1,3-Dichlorobenzene	11.600	146	85254	2.188	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	83440	2.189	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	82311	2.150	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	78291	2.259	ppbv	99
79) Naphthalene	13.510	128	79191	1.690	ppbv	98
80) Naphthalene,2-methyl-	14.455	142	5851	1.298	ppbv	90
81) 1,2,4-Trichlorobenzene	13.435	180	51515	1.888	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	156293	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	459770	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	410018	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 327673 10.091 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	20935	1.013	ppbv	93
3) Chlorodifluoromethane	1.473	51	27459	1.020	ppbv	99
4) Chloromethane	1.531	50	9047	1.082	ppbv	96
5) Vinyl Chloride	1.580	62	7432	0.900	ppbv	96
6) Bromomethane	1.667	94	3743	1.172	ppbv #	71
7) Chloroethane	1.703	64	3061	0.959	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	17668	1.040	ppbv	98
9) Propene	1.483	41	10346	1.057	ppbv	95
10) Heptane	4.975	43	26137m	0.993	ppbv	
11) Trichlorofluoromethane	1.874	101	22428	1.053	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.136	101	16608	1.026	ppbv	97
13) Ethanol	1.719	45	1620m	1.222	ppbv	
14) Bromoethene	1.780	108	5928	1.034	ppbv #	92
15) Acetone	1.832	43	23119	1.071	ppbv	94
16) 1,3-Butadiene	1.606	39	9416	1.023	ppbv	98
17) tert-Butyl alcohol	2.039	59	19926	1.024	ppbv #	93
18) 1,1-Dichloroethene	2.030	96	8276	1.132	ppbv	95
19) Isopropyl Alcohol	1.884	45	11942	1.041	ppbv #	42
20) Methylene Chloride	2.059	84	7153	1.052	ppbv	90
21) Allyl Chloride	2.091	41	13382	1.006	ppbv	92
22) trans-1,2-Dichloroethene	2.337	96	7909	1.007	ppbv	89
23) Vinyl Acetate	2.457	43	23472	0.897	ppbv #	91
24) 1,1-Dichloroethane	2.405	63	17459	1.081	ppbv	99
25) Ethyl Acetate	2.829	43	48790	1.021	ppbv	97
26) Hexane	2.823	57	22279	1.063	ppbv	98
27) Carbon Disulfide	2.146	76	18488	1.031	ppbv #	1
28) Methyl tert-Butyl Ether	2.434	73	9587	0.968	ppbv	90
29) Chloroform	2.845	83	32880	1.015	ppbv	95
30) Cyclohexane	3.852	84	17824	1.003	ppbv	97
31) cis-1,2-Dichloroethene	2.716	61	21979	1.021	ppbv	97
32) 1,1,1-Trichloroethane	3.363	97	32003	0.949	ppbv	97
34) 2-Butanone	2.554	43	32783	1.007	ppbv	98
35) Carbon Tetrachloride	3.758	117	32610	0.954	ppbv	92
36) Benzene	3.651	78	44638	1.024	ppbv	98
37) 1,2-Dichloroethane	3.211	62	26909	1.025	ppbv #	96
38) Trichloroethene	4.538	130	21122	1.005	ppbv	93
39) 1,2-Dichloropropane	4.305	63	16622	1.033	ppbv	94
40) 1,4-Dioxane	4.587	88	7811m	1.030	ppbv	
41) Tetrahydrofuran	3.056	42	16097	0.984	ppbv	97
42) Bromodichloromethane	4.480	83	34995m	1.023	ppbv	
43) Methyl Methacrylate	4.868	69	14886m	0.961	ppbv	
44) 2,2,4-Trimethylpentane	4.629	57	72865	1.026	ppbv	99
45) t-1,3-Dichloropropene	6.399	75	15641m	0.900	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042749.D
 Acq On : 23 Jul 2025 10:08
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:57:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	21088m	0.958	ppbv	
47) 1,1,2-Trichloroethane	6.574	97	17646	1.029	ppbv #	82
48) Dibromochloromethane	7.380	129	26259	0.965	ppbv	99
49) Bromoform	9.474	173	23083	0.973	ppbv	100
50) 4-Methyl-2-Pentanone	5.745	43	41715m	1.006	ppbv	
51) 2-Hexanone	7.435	43	29761	0.939	ppbv #	100
52) Tetrachloroethene	8.215	164	18131	1.001	ppbv	96
53) Toluene	6.927	91	45645	0.976	ppbv	98
54) 1,2-Dibromoethane	7.642	107	24427	1.007	ppbv	85
56) 1,1,1,2-Tetrachloroethane	8.920	131	21319	1.000	ppbv	94
57) Chlorobenzene	8.911	112	41788	1.053	ppbv #	85
58) Ethyl Benzene	9.351	91	63467	0.980	ppbv	98
59) m/p-Xylene	9.545	91	104545m	2.020	ppbv	
60) o-Xylene	9.959	91	52499	1.015	ppbv	99
61) Styrene	9.865	104	20313	0.934	ppbv	97
62) Isopropylbenzene	10.532	105	77278	1.013	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.956	83	32591	0.967	ppbv	100
64) n-propylbenzene	10.985	120	20073	1.009	ppbv	95
65) tert-Butylbenzene	11.526	119	68428	1.010	ppbv	95
66) Benzyl Chloride	11.610	91	4700	0.845	ppbv	96
67) sec-Butylbenzene	11.762	105	101458	1.053	ppbv	99
69) p-Isopropyltoluene	11.921	119	78186	0.995	ppbv	98
70) n-Butylbenzene	12.277	91	74257	0.978	ppbv	98
71) 2-Chlorotoluene	10.895	91	59193	1.012	ppbv	100
72) 4-Ethyltoluene	11.121	105	61199	0.991	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	48901	0.962	ppbv	99
74) 1,2,4-Trimethylbenzene	11.532	105	55153	0.994	ppbv	97
75) 1,3-Dichlorobenzene	11.600	146	39753	1.022	ppbv	97
76) 1,4-Dichlorobenzene	11.665	146	38018	0.999	ppbv	98
77) 1,2-Dichlorobenzene	11.943	146	40835	1.068	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	37228	1.076	ppbv	98
79) Naphthalene	13.510	128	29792	0.907	ppbv	97
80) Naphthalene,2-methyl-	14.449	142	1950	1.184	ppbv #	78
81) 1,2,4-Trichlorobenzene	13.435	180	21929	1.053	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.784	49	151256	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.956	114	446836	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	408626	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	319353	9.869	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	11099	0.555	ppbv	98
3) Chlorodifluoromethane	1.476	51	14291	0.549	ppbv	97
4) Chloromethane	1.531	50	4428	0.547	ppbv	96
5) Vinyl Chloride	1.580	62	3902	0.488	ppbv	97
6) Bromomethane	1.667	94	1717	0.556	ppbv #	38
7) Chloroethane	1.703	64	2102	0.681	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	8971	0.545	ppbv	97
9) Propene	1.483	41	4695	0.496	ppbv #	77
10) Heptane	4.978	43	13003m	0.511	ppbv	
11) Trichlorofluoromethane	1.878	101	11021	0.535	ppbv	90
12) 1,1,2-Trichlorotrifluo...	2.137	101	8430	0.538	ppbv	98
13) Ethanol	1.719	45	1066m	0.498	ppbv	
14) Bromoethene	1.781	108	2971	0.536	ppbv #	92
15) Acetone	1.836	43	14012	0.671	ppbv #	88
16) 1,3-Butadiene	1.609	39	5488	0.616	ppbv	100
17) tert-Butyl alcohol	2.040	59	10333	0.549	ppbv #	77
18) 1,1-Dichloroethene	2.033	96	4051	0.572	ppbv	77
19) Isopropyl Alcohol	1.888	45	6478	0.584	ppbv #	81
20) Methylene Chloride	2.059	84	4500	0.684	ppbv	82
21) Allyl Chloride	2.098	41	6829	0.531	ppbv #	80
22) trans-1,2-Dichloroethene	2.341	96	4186	0.551	ppbv	88
23) Vinyl Acetate	2.460	43	12423	0.491	ppbv #	76
24) 1,1-Dichloroethane	2.405	63	7962	0.509	ppbv #	91
25) Ethyl Acetate	2.836	43	23632	0.511	ppbv	97
26) Hexane	2.823	57	10019	0.494	ppbv	90
27) Carbon Disulfide	2.150	76	8670	0.499	ppbv #	1
28) Methyl tert-Butyl Ether	2.441	73	4937	0.515	ppbv #	79
29) Chloroform	2.849	83	17100	0.546	ppbv #	82
30) Cyclohexane	3.855	84	8596	0.500	ppbv	89
31) cis-1,2-Dichloroethene	2.723	61	11032	0.529	ppbv	99
32) 1,1,1-Trichloroethane	3.367	97	16132	0.494	ppbv	97
34) 2-Butanone	2.557	43	16299	0.515	ppbv	94
35) Carbon Tetrachloride	3.761	117	15207	0.458	ppbv	90
36) Benzene	3.651	78	21800	0.515	ppbv	96
37) 1,2-Dichloroethane	3.215	62	13299	0.521	ppbv #	95
38) Trichloroethene	4.548	130	10097m	0.494	ppbv	
39) 1,2-Dichloropropane	4.312	63	8291	0.530	ppbv #	90
40) 1,4-Dioxane	4.606	88	3963m	0.538	ppbv	
41) Tetrahydrofuran	3.056	42	8064m	0.507	ppbv	
42) Bromodichloromethane	4.487	83	16080m	0.484	ppbv	
43) Methyl Methacrylate	4.881	69	7162m	0.476	ppbv	
44) 2,2,4-Trimethylpentane	4.639	57	33853	0.490	ppbv	93
45) t-1,3-Dichloropropene	6.412	75	7968m	0.472	ppbv	

07/24/2025
 Supervised By : Mahesh
 Dadoda

07/24/2025

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042750.D
 Acq On : 23 Jul 2025 10:42
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:58:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.593	75	9709m	0.454	ppbv		07/24/2025
47) 1,1,2-Trichloroethane	6.574	97	8782m	0.527	ppbv		Supervised By :Mahesh Dadoda
48) Dibromochloromethane	7.383	129	12723m	0.481	ppbv		
49) Bromoform	9.481	173	10801	0.468	ppbv	97	
50) 4-Methyl-2-Pentanone	5.768	43	19575m	0.486	ppbv		
51) 2-Hexanone	7.448	43	12813m	0.416	ppbv		
52) Tetrachloroethene	8.218	164	8359	0.475	ppbv #	81	07/24/2025
53) Toluene	6.924	91	21324	0.469	ppbv	95	
54) 1,2-Dibromoethane	7.649	107	12294m	0.521	ppbv		
56) 1,1,1,2-Tetrachloroethane	8.924	131	11191	0.527	ppbv #	1	
57) Chlorobenzene	8.921	112	20828	0.527	ppbv #	84	
58) Ethyl Benzene	9.354	91	29134	0.451	ppbv	96	
59) m/p-Xylene	9.549	91	47028m	0.912	ppbv		
60) o-Xylene	9.963	91	23603	0.458	ppbv	100	
61) Styrene	9.872	104	9195	0.424	ppbv	97	
62) Isopropylbenzene	10.539	105	35189	0.463	ppbv	97	
63) 1,1,2,2-Tetrachloroethane	9.956	83	15544	0.463	ppbv	99	
64) n-propylbenzene	10.989	120	8924	0.450	ppbv	99	
65) tert-Butylbenzene	11.529	119	30560	0.453	ppbv	95	
66) Benzyl Chloride	11.617	91	2336m	0.421	ppbv		
67) sec-Butylbenzene	11.766	105	44169	0.460	ppbv	100	
69) p-Isopropyltoluene	11.924	119	33104	0.423	ppbv	99	
70) n-Butylbenzene	12.280	91	29048	0.384	ppbv	99	
71) 2-Chlorotoluene	10.902	91	27184	0.466	ppbv	97	
72) 4-Ethyltoluene	11.125	105	26395	0.429	ppbv #	95	
73) 1,3,5-Trimethylbenzene	11.206	105	22392	0.442	ppbv #	85	
74) 1,2,4-Trimethylbenzene	11.536	105	22772	0.412	ppbv	96	
75) 1,3-Dichlorobenzene	11.607	146	18680	0.482	ppbv	96	
76) 1,4-Dichlorobenzene	11.669	146	17616	0.465	ppbv	97	
77) 1,2-Dichlorobenzene	11.947	146	18799	0.494	ppbv	98	
78) Hexachloro-1,3-Butadiene	13.879	225	18330	0.532	ppbv	99	
79) Naphthalene	13.514	128	9916	0.592	ppbv	97	
80) Naphthalene,2-methyl-	14.481	142	731	1.148	ppbv #	61	
81) 1,2,4-Trichlorobenzene	13.436	180	7453	0.645	ppbv	95	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042752.D
 Acq On : 23 Jul 2025 11:50
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 04:59:46 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	151834	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	432802	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	387541	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	302164	9.845	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.580	62	376	0.047	ppbv #	68
32) 1,1,1-Trichloroethane	3.366	97	1149m	0.035	ppbv	
35) Carbon Tetrachloride	3.755	117	1233m	0.038	ppbv	
38) Trichloroethene	4.535	130	664m	0.034	ppbv	
52) Tetrachloroethene	8.215	164	654m	0.038	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.959	83	1285m	0.040	ppbv	

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

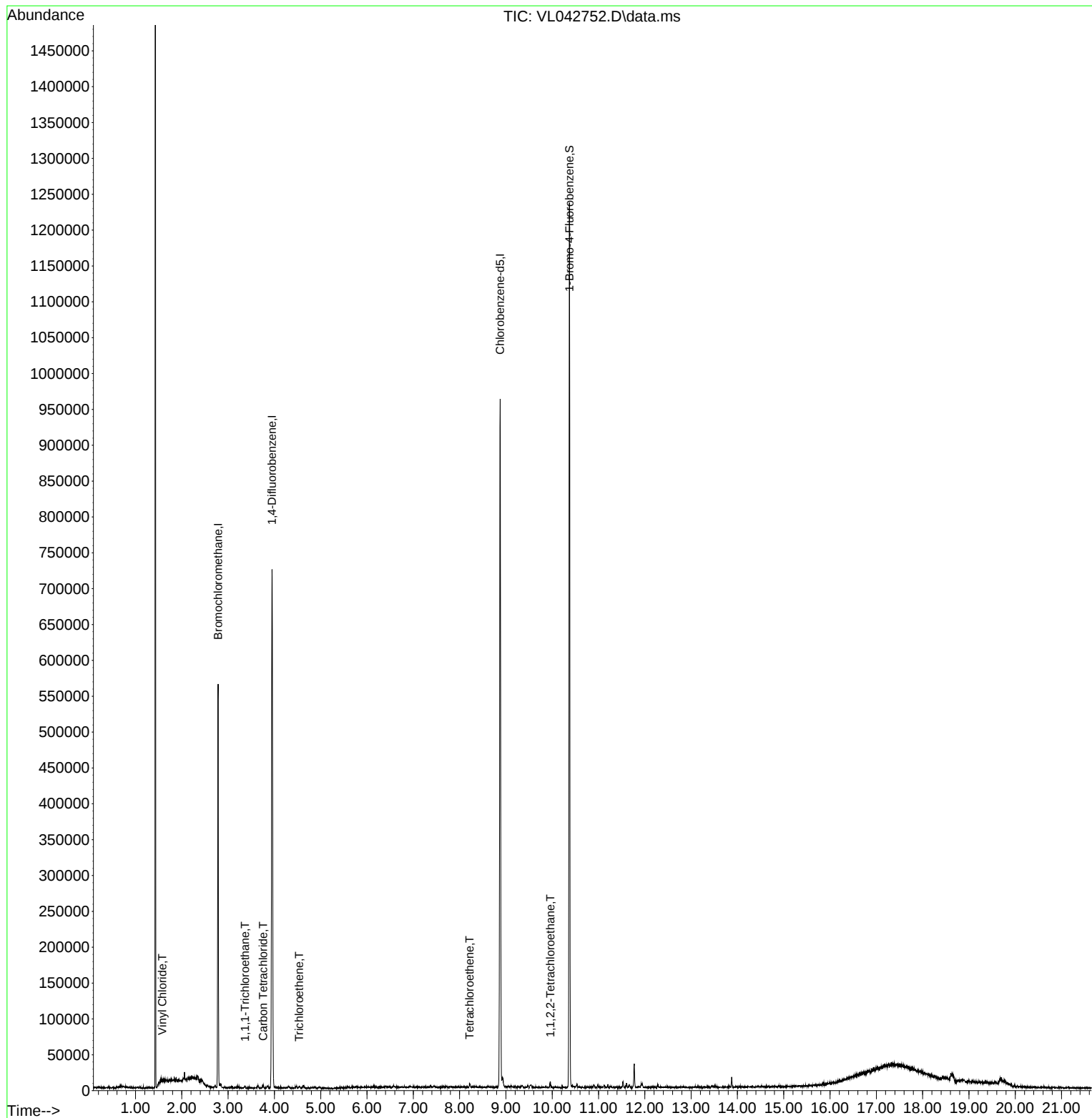
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042752.D
Acq On : 23 Jul 2025 11:50
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jul 24 04:59:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
Supervised By : Mahesh Dadoda 07/24/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	150331	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.952	114	427438	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	385223	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 315293 10.335 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	277045	13.938	ppbv	98
3) Chlorodifluoromethane	1.473	51	353451	13.651	ppbv	98
4) Chloromethane	1.531	50	111684	13.889	ppbv	96
5) Vinyl Chloride	1.577	62	98596	12.410	ppbv	96
6) Bromomethane	1.667	94	44144	14.372	ppbv	92
7) Chloroethane	1.703	64	40909	13.327	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	229298	14.028	ppbv	99
9) Propene	1.483	41	129069	13.716	ppbv	99
10) Heptane	4.972	43	368612	14.563	ppbv	99
11) Trichlorofluoromethane	1.874	101	289764	14.143	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.136	101	223552	14.358	ppbv	99
13) Ethanol	1.719	45	11145	15.142	ppbv	86
14) Bromoethene	1.780	108	77435	14.047	ppbv	98
15) Acetone	1.832	43	237665	11.449	ppbv	98
16) 1,3-Butadiene	1.606	39	118252	13.355	ppbv	99
17) tert-Butyl alcohol	2.036	59	260587	13.919	ppbv	98
18) 1,1-Dichloroethene	2.030	96	94140	13.382	ppbv	93
19) Isopropyl Alcohol	1.881	45	149463	13.549	ppbv	99
20) Methylene Chloride	2.059	84	82755	12.651	ppbv	97
21) Allyl Chloride	2.094	41	185201	14.476	ppbv	100
22) trans-1,2-Dichloroethene	2.337	96	107003	14.160	ppbv	92
23) Vinyl Acetate	2.457	43	413378	16.426	ppbv	99
24) 1,1-Dichloroethane	2.405	63	221175	14.239	ppbv	100
25) Ethyl Acetate	2.829	43	647150	14.084	ppbv	99
26) Hexane	2.819	57	279549	13.869	ppbv	99
27) Carbon Disulfide	2.146	76	260884	15.119	ppbv	98
28) Methyl tert-Butyl Ether	2.437	73	156895	16.477	ppbv	97
29) Chloroform	2.842	83	438155	14.067	ppbv	100
30) Cyclohexane	3.849	84	244116	14.280	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	293947	14.192	ppbv	98
32) 1,1,1-Trichloroethane	3.363	97	447592	13.796	ppbv	100
34) 2-Butanone	2.551	43	432873	14.297	ppbv	100
35) Carbon Tetrachloride	3.755	117	468957	14.764	ppbv	98
36) Benzene	3.651	78	577153	14.247	ppbv	99
37) 1,2-Dichloroethane	3.211	62	354637	14.533	ppbv	100
38) Trichloroethene	4.541	130	262041	13.416	ppbv	97
39) 1,2-Dichloropropane	4.305	63	211594	14.150	ppbv	99
40) 1,4-Dioxane	4.567	88	98196	13.926	ppbv #	99
41) Tetrahydrofuran	3.046	42	232393	15.278	ppbv	99
42) Bromodichloromethane	4.480	83	486831	15.303	ppbv	99
43) Methyl Methacrylate	4.868	69	231227	16.059	ppbv	98
44) 2,2,4-Trimethylpentane	4.629	57	963867	14.598	ppbv	98
45) t-1,3-Dichloropropene	6.406	75	266194	16.478	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042753.D
 Acq On : 23 Jul 2025 12:26
 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 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:00:31 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 04:55:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	329850	16.115	ppbv	99
47) 1,1,2-Trichloroethane	6.567	97	228492	14.335	ppbv	96
48) Dibromochloromethane	7.380	129	397179	15.695	ppbv	99
49) Bromoform	9.477	173	352050	15.955	ppbv	97
50) 4-Methyl-2-Pentanone	5.732	43	594973	15.427	ppbv	100
51) 2-Hexanone	7.428	43	485325	16.467	ppbv #	100
52) Tetrachloroethene	8.221	164	217184	12.899	ppbv	95
53) Toluene	6.923	91	670142	15.405	ppbv	99
54) 1,2-Dibromoethane	7.645	107	338867	15.019	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.920	131	293384	14.648	ppbv	99
57) Chlorobenzene	8.917	112	522894	14.025	ppbv	98
58) Ethyl Benzene	9.351	91	940159	15.454	ppbv	99
59) m/p-Xylene	9.545	91	1497932m	30.800	ppbv	
60) o-Xylene	9.959	91	730161	15.030	ppbv	100
61) Styrene	9.866	104	343429	16.805	ppbv	100
62) Isopropylbenzene	10.536	105	1078393	15.049	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.959	83	419734	13.261	ppbv	98
64) n-propylbenzene	10.985	120	286724	15.348	ppbv	97
65) tert-Butylbenzene	11.529	119	954459	14.995	ppbv	98
66) Benzyl Chloride	11.610	91	94218	18.031	ppbv	98
67) sec-Butylbenzene	11.762	105	1327393	14.662	ppbv	99
69) p-Isopropyltoluene	11.921	119	1149418	15.571	ppbv	99
70) n-Butylbenzene	12.277	91	1152207	16.159	ppbv	100
71) 2-Chlorotoluene	10.898	91	838335	15.257	ppbv	99
72) 4-Ethyltoluene	11.121	105	918453	15.830	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	763212	15.977	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	827222	15.873	ppbv	97
75) 1,3-Dichlorobenzene	11.604	146	539284	14.761	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	542998	15.188	ppbv	100
77) 1,2-Dichlorobenzene	11.943	146	516714	14.390	ppbv	98
78) Hexachloro-1,3-Butadiene	13.876	225	432138	13.296	ppbv	99
79) Naphthalene	13.507	128	876734	15.265	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	456529	15.438	ppbv	98
81) 1,2,4-Trichlorobenzene	13.436	180	490575	15.200	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042754.D
 Acq On : 23 Jul 2025 13:00
 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 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:01:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Jul 24 04:55:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	152358	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.953	114	438604	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.879	117	393042	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	298283	9.583	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	837	0.104	ppbv #	60
32) 1,1,1-Trichloroethane	3.363	97	3550	0.108	ppbv	96
35) Carbon Tetrachloride	3.758	117	3035m	0.093	ppbv	
38) Trichloroethene	4.555	130	2207m	0.110	ppbv	
52) Tetrachloroethene	8.222	164	1852m	0.107	ppbv	
54) 1,2-Dibromoethane	7.665	107	2184m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.963	83	3084m	0.095	ppbv	
79) Naphthalene	13.514	128	2509	0.475	ppbv #	96

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

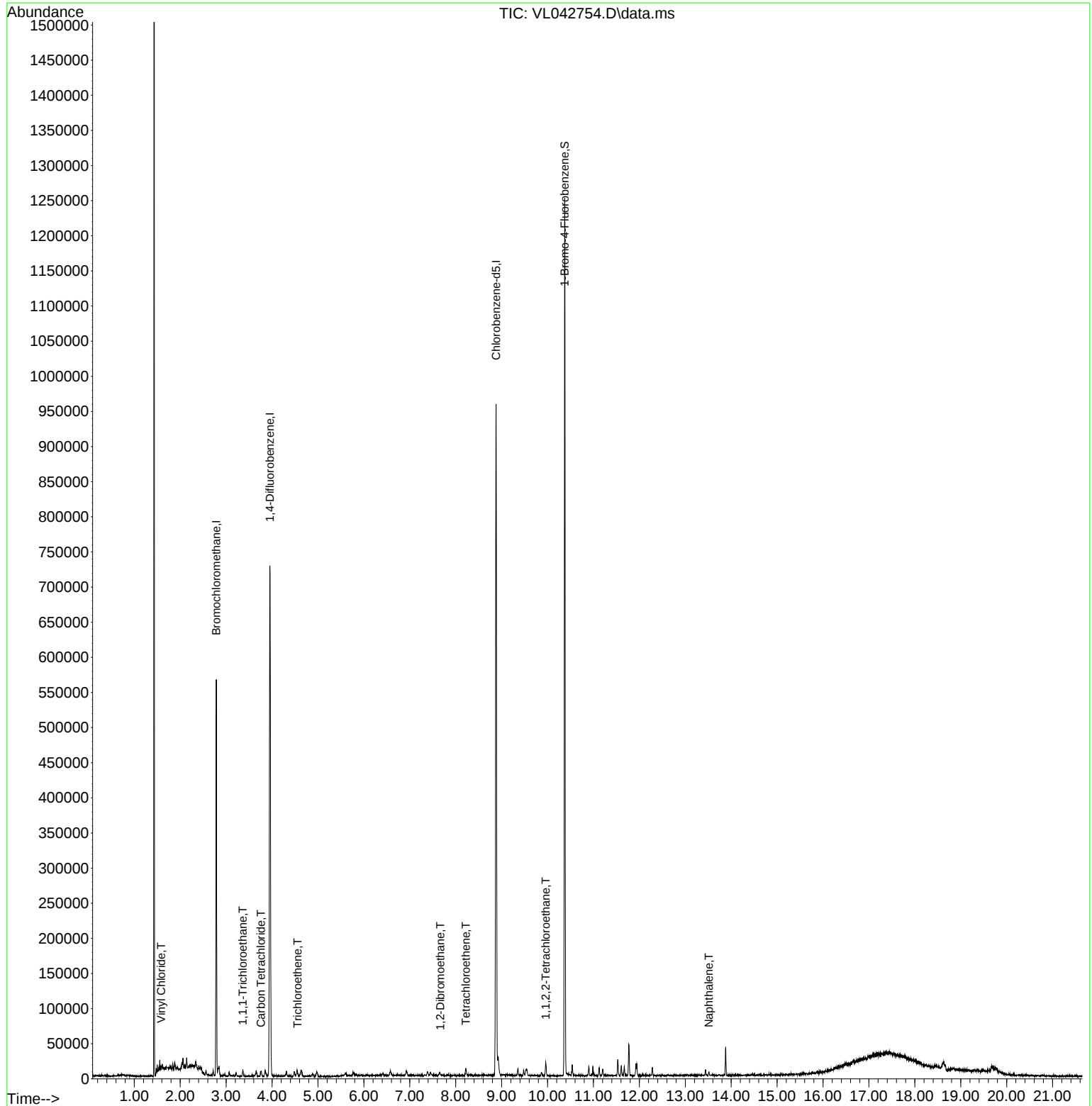
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042754.D
Acq On : 23 Jul 2025 13:00
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:01:17 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 04:55:41 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/24/2025
 Supervised By : Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	148064	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.949	114	421747	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.875	117	380539	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 313324 10.397 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.496	85	185425	9.472	ppbv	99
3) Chlorodifluoromethane	1.473	51	242908	9.525	ppbv	99
4) Chloromethane	1.531	50	72221	9.119	ppbv	98
5) Vinyl Chloride	1.577	62	64673	8.265	ppbv	100
6) Bromomethane	1.664	94	27096	8.957	ppbv	99
7) Chloroethane	1.700	64	26125	8.641	ppbv	99
8) Dichlorotetrafluoroethane	1.551	85	148833	9.244	ppbv	100
9) Propene	1.479	41	86343	9.316	ppbv	95
10) Heptane	4.965	43	247934	9.921	ppbv	99
11) Trichlorofluoromethane	1.874	101	179643	8.902	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	138363	9.023	ppbv	98
13) Ethanol	1.719	45	7690	10.243	ppbv	92
14) Bromoethene	1.777	108	48972	9.020	ppbv	98
15) Acetone	1.832	43	149742	7.324	ppbv	99
16) 1,3-Butadiene	1.606	39	79112	9.072	ppbv	98
17) tert-Butyl alcohol	2.036	59	170096	9.225	ppbv	98
18) 1,1-Dichloroethene	2.030	96	62149	8.970	ppbv	96
19) Isopropyl Alcohol	1.881	45	97844	9.006	ppbv	99
20) Methylene Chloride	2.056	84	53608	8.320	ppbv	98
21) Allyl Chloride	2.091	41	118958	9.441	ppbv	100
22) trans-1,2-Dichloroethene	2.334	96	69482	9.322	ppbv	97
23) Vinyl Acetate	2.457	43	261938	10.568	ppbv	98
24) 1,1-Dichloroethane	2.402	63	137586	8.993	ppbv	99
25) Ethyl Acetate	2.829	43	444208	9.816	ppbv	99
26) Hexane	2.819	57	190523	9.597	ppbv	98
27) Carbon Disulfide	2.146	76	164040	9.652	ppbv	99
28) Methyl tert-Butyl Ether	2.434	73	85480	9.114	ppbv	98
29) Chloroform	2.842	83	295808	9.643	ppbv	99
30) Cyclohexane	3.849	84	164554	9.773	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	199970	9.802	ppbv	99
32) 1,1,1-Trichloroethane	3.360	97	293074	9.172	ppbv	100
34) 2-Butanone	2.551	43	294837	9.869	ppbv	99
35) Carbon Tetrachloride	3.755	117	310129	9.900	ppbv	96
36) Benzene	3.648	78	393085	9.834	ppbv	99
37) 1,2-Dichloroethane	3.211	62	238249	9.895	ppbv	100
38) Trichloroethene	4.538	130	178600	9.301	ppbv	97
39) 1,2-Dichloropropane	4.305	63	141316	9.578	ppbv	95
40) 1,4-Dioxane	4.570	88	65204	9.481	ppbv #	94
41) Tetrahydrofuran	3.046	42	158159	10.404	ppbv	99
42) Bromodichloromethane	4.477	83	321549	10.254	ppbv	98
43) Methyl Methacrylate	4.865	69	152551	10.738	ppbv	97
44) 2,2,4-Trimethylpentane	4.629	57	649720	9.973	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	169563	10.643	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
 Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	215596	10.679	ppbv	97
47) 1,1,2-Trichloroethane	6.564	97	154882m	9.848	ppbv	
48) Dibromochloromethane	7.380	129	261174	10.460	ppbv	98
49) Bromoform	9.477	173	233573	10.729	ppbv	99
50) 4-Methyl-2-Pentanone	5.736	43	396506	10.303	ppbv	100
51) 2-Hexanone	7.428	43	320740	11.029	ppbv #	100
52) Tetrachloroethene	8.218	164	151810	9.163	ppbv	98
53) Toluene	6.927	91	441829	10.294	ppbv	100
54) 1,2-Dibromoethane	7.645	107	229563	10.331	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.920	131	193089	9.759	ppbv	99
57) Chlorobenzene	8.914	112	354412	9.623	ppbv	96
58) Ethyl Benzene	9.348	91	631247	10.504	ppbv	99
59) m/p-Xylene	9.545	91	1016249m	21.160	ppbv	
60) o-Xylene	9.959	91	503849	10.499	ppbv	99
61) Styrene	9.866	104	225799	11.185	ppbv	99
62) Isopropylbenzene	10.536	105	736044	10.398	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.956	83	287775	9.340	ppbv	99
64) n-propylbenzene	10.982	120	193034	10.460	ppbv	98
65) tert-Butylbenzene	11.526	119	660966	10.512	ppbv	99
66) Benzyl Chloride	11.610	91	60055	11.634	ppbv	99
67) sec-Butylbenzene	11.762	105	914046	10.221	ppbv	100
69) p-Isopropyltoluene	11.921	119	778601	10.677	ppbv	99
70) n-Butylbenzene	12.277	91	788734	11.197	ppbv	99
71) 2-Chlorotoluene	10.895	91	563193	10.376	ppbv	99
72) 4-Ethyltoluene	11.121	105	617355	10.772	ppbv	99
73) 1,3,5-Trimethylbenzene	11.199	105	516735	10.951	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	567186	11.017	ppbv	98
75) 1,3-Dichlorobenzene	11.604	146	366855	10.165	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	364937	10.333	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	348999	9.839	ppbv	99
78) Hexachloro-1,3-Butadiene	13.876	225	291861	9.091	ppbv	99
79) Naphthalene	13.510	128	578563	10.342	ppbv	99
80) Naphthalene,2-methyl-	14.452	142	277798	9.951	ppbv	99
81) 1,2,4-Trichlorobenzene	13.436	180	319897	10.181	ppbv	100

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

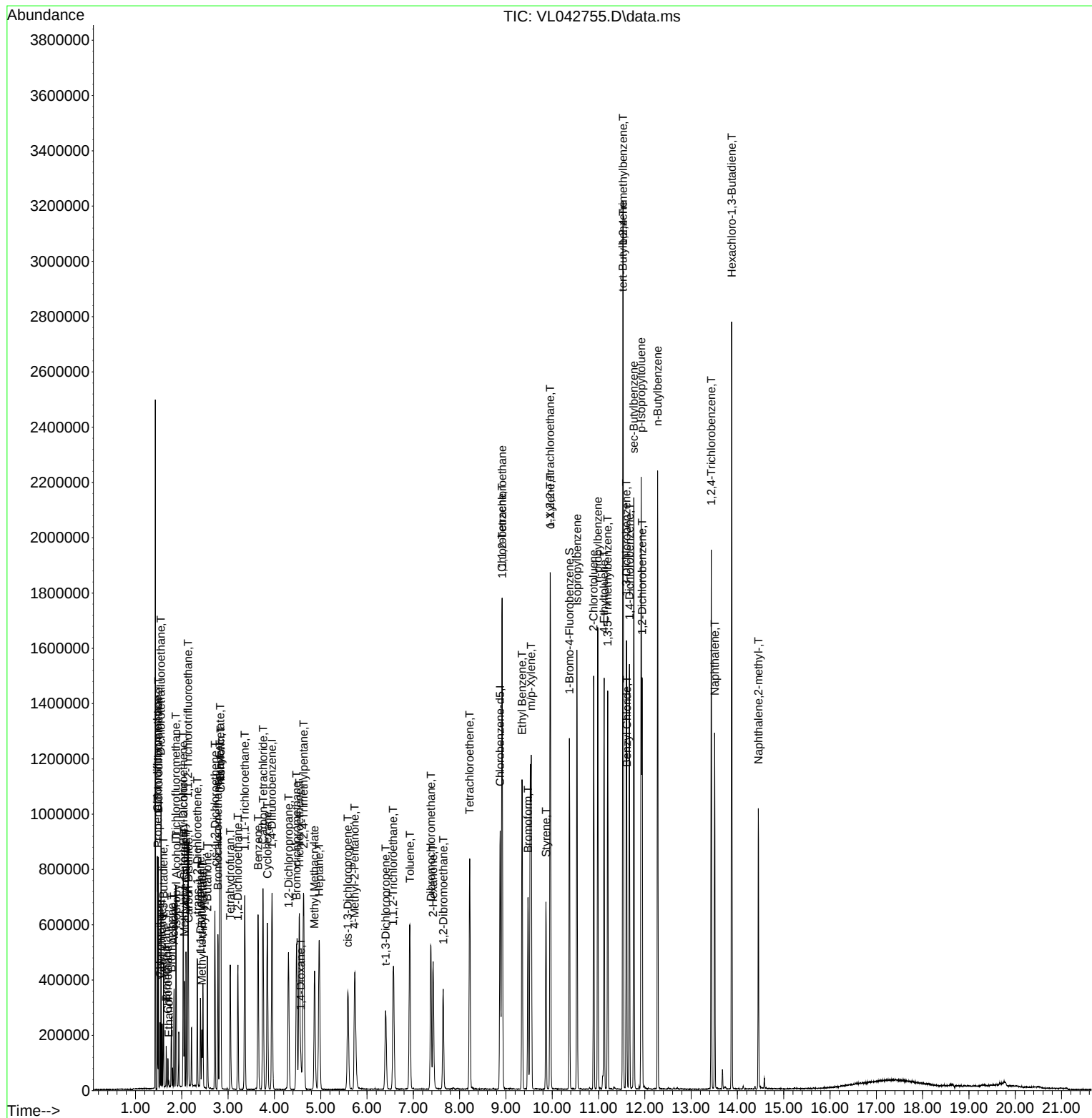
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042755.D
Acq On : 23 Jul 2025 14:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL072325

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 07/24/2025
Supervised By :Mahesh Dadoda 07/24/2025

Quant Time: Jul 24 05:28:48 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	93	0.00
2 T	Dichlorodifluoromethane	1.322	1.252	5.3	97	0.00
3	Chlorodifluoromethane	1.722	1.641	4.7	94	0.00
4	Chloromethane	0.535	0.488	8.8	94	0.00
5 T	Vinyl Chloride	0.528	0.437	17.2	99	0.00
6 T	Bromomethane	0.204	0.183	10.3	96	0.00
7	Chloroethane	0.204	0.176	13.7	93	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.005	7.5	95	0.00
9 T	Propene	0.626	0.583	6.9	91	0.00
10 T	Heptane	1.688	1.675	0.8	95	0.00
11 T	Trichlorofluoromethane	1.363	1.213	11.0	92	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	0.934	9.8	92	0.00
13	Ethanol	0.083	0.052	37.3#	97	0.00
14 T	Bromoethene	0.367	0.331	9.8	91	0.00
15 T	Acetone	1.381	1.011	26.8	94	0.00
16 T	1,3-Butadiene	0.589	0.534	9.3	98	0.00
17	tert-Butyl alcohol	1.245	1.149	7.7	92	0.00
18 T	1,1-Dichloroethene	0.468	0.420	10.3	97	0.00
19 T	Isopropyl Alcohol	0.734	0.661	9.9	93	0.00
20 T	Methylene Chloride	0.435	0.362	16.8	100	0.00
21 T	Allyl Chloride	0.851	0.803	5.6	94	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.469	6.8	95	0.00
23 T	Vinyl Acetate	1.674	1.769	-5.7	97	0.00
24 T	1,1-Dichloroethane	1.033	0.929	10.1	92	0.00
25 T	Ethyl Acetate	3.056	3.000	1.8	95	0.00
26 T	Hexane	1.341	1.287	4.0	93	0.00
27 T	Carbon Disulfide	1.148	1.108	3.5	95	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.577	8.8	97	0.00
29 T	Chloroform	2.072	1.998	3.6	97	0.00
30 T	Cyclohexane	1.137	1.111	2.3	92	0.00
31 T	cis-1,2-Dichloroethene	1.378	1.351	2.0	96	0.00
32 T	1,1,1-Trichloroethane	2.158	1.979	8.3	94	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.708	0.699	1.3	96	0.00
35 T	Carbon Tetrachloride	0.743	0.735	1.1	96	0.00
36 T	Benzene	0.948	0.932	1.7	95	0.00
37 T	1,2-Dichloroethane	0.571	0.565	1.1	96	0.00
38 T	Trichloroethene	0.455	0.423	7.0	95	0.00
39 T	1,2-Dichloropropane	0.350	0.335	4.3	94	0.00
40 T	1,4-Dioxane	0.163	0.155	4.9	100	0.00
41 T	Tetrahydrofuran	0.360	0.375	-4.2	95	0.00
42 T	Bromodichloromethane	0.744	0.762	-2.4	96	0.00
43	Methyl Methacrylate	0.337	0.362	-7.4	95	0.00
44 T	2,2,4-Trimethylpentane	1.545	1.541	0.3	94	0.00
45 T	t-1,3-Dichloropropene	0.378	0.402	-6.3	91	0.00
46 T	cis-1,3-Dichloropropene	0.479	0.511	-6.7	92	0.00
47 T	1,1,2-Trichloroethane	0.373	0.367	1.6	97	-0.02
48 T	Dibromochloromethane	0.592	0.619	-4.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	0.516	0.554	-7.4	95	0.00
50 T	4-Methyl-2-Pentanone	0.912	0.940	-3.1	96	0.00
51 T	2-Hexanone	0.690	0.761	-10.3	95	0.00
52 T	Tetrachloroethene	0.393	0.360	8.4	97	0.00
53 T	Toluene	1.018	1.048	-2.9	93	0.00
54 T	1,2-Dibromoethane	0.527	0.544	-3.2	96	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.520	0.507	2.5	95	0.00
57 T	Chlorobenzene	0.968	0.931	3.8	95	0.00
58 T	Ethyl Benzene	1.579	1.659	-5.1	96	0.00
59 T	m/p-Xylene	1.262	1.335	-5.8	97	0.00
60 T	o-Xylene	1.261	1.324	-5.0	97	0.00
61 T	Styrene	0.531	0.593	-11.7	95	0.00
62	Isopropylbenzene	1.860	1.934	-4.0	97	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.756	6.7	98	0.00
64	n-propylbenzene	0.485	0.507	-4.5	97	0.00
65	tert-Butylbenzene	1.652	1.737	-5.1	97	0.00
66 T	Benzyl Chloride	0.136	0.158	-16.2	90	0.00
67	sec-Butylbenzene	2.350	2.402	-2.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.823	-3.9	93	0.00
69	p-Isopropyltoluene	1.916	2.046	-6.8	96	0.00
70	n-Butylbenzene	1.851	2.073	-12.0	96	0.00
71	2-Chlorotoluene	1.426	1.480	-3.8	96	0.00
72 T	4-Ethyltoluene	1.506	1.622	-7.7	96	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.358	-9.5	96	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.490	-10.1	97	0.00
75 T	1,3-Dichlorobenzene	0.948	0.964	-1.7	98	0.00
76 T	1,4-Dichlorobenzene	0.928	0.959	-3.3	97	0.00
77 T	1,2-Dichlorobenzene	0.932	0.917	1.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.767	9.1	97	0.00
79 T	Naphthalene	0.958	1.520	-58.7#	97	0.00
80 T	Naphthalene,2-methyl-	0.326	0.730	-123.9#	96	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.841	-32.4#	95	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.472	5.3	97	0.00
3	Chlorodifluoromethane	10.000	9.525	4.7	94	0.00
4	Chloromethane	10.000	9.119	8.8	94	0.00
5 T	Vinyl Chloride	10.000	8.265	17.3	99	0.00
6 T	Bromomethane	10.000	8.957	10.4	96	0.00
7	Chloroethane	10.000	8.641	13.6	93	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.244	7.6	95	0.00
9 T	Propene	10.000	9.316	6.8	91	0.00
10 T	Heptane	10.000	9.921	0.8	95	0.00
11 T	Trichlorofluoromethane	10.000	8.902	11.0	92	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.023	9.8	92	0.00
13	Ethanol	10.000	10.243	-2.4	97	0.00
14 T	Bromoethene	10.000	9.020	9.8	91	0.00
15 T	Acetone	10.000	7.324	26.8	94	0.00
16 T	1,3-Butadiene	10.000	9.072	9.3	98	0.00
17	tert-Butyl alcohol	10.000	9.225	7.8	92	0.00
18 T	1,1-Dichloroethene	10.000	8.970	10.3	97	0.00
19 T	Isopropyl Alcohol	10.000	9.006	9.9	93	0.00
20 T	Methylene Chloride	10.000	8.320	16.8	100	0.00
21 T	Allyl Chloride	10.000	9.441	5.6	94	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.322	6.8	95	0.00
23 T	Vinyl Acetate	10.000	10.568	-5.7	97	0.00
24 T	1,1-Dichloroethane	10.000	8.993	10.1	92	0.00
25 T	Ethyl Acetate	10.000	9.816	1.8	95	0.00
26 T	Hexane	10.000	9.597	4.0	93	0.00
27 T	Carbon Disulfide	10.000	9.652	3.5	95	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.114	8.9	97	0.00
29 T	Chloroform	10.000	9.643	3.6	97	0.00
30 T	Cyclohexane	10.000	9.773	2.3	92	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.802	2.0	96	0.00
32 T	1,1,1-Trichloroethane	10.000	9.172	8.3	94	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.869	1.3	96	0.00
35 T	Carbon Tetrachloride	10.000	9.900	1.0	96	0.00
36 T	Benzene	10.000	9.834	1.7	95	0.00
37 T	1,2-Dichloroethane	10.000	9.895	1.1	96	0.00
38 T	Trichloroethene	10.000	9.301	7.0	95	0.00
39 T	1,2-Dichloropropane	10.000	9.578	4.2	94	0.00
40 T	1,4-Dioxane	10.000	9.481	5.2	100	0.00
41 T	Tetrahydrofuran	10.000	10.404	-4.0	95	0.00
42 T	Bromodichloromethane	10.000	10.254	-2.5	96	0.00
43	Methyl Methacrylate	10.000	10.738	-7.4	95	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.973	0.3	94	0.00
45 T	t-1,3-Dichloropropene	10.000	10.643	-6.4	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.679	-6.8	92	0.00
47 T	1,1,2-Trichloroethane	10.000	9.848	1.5	97	-0.02
48 T	Dibromochloromethane	10.000	10.460	-4.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
 Data File : VL042755.D
 Acq On : 23 Jul 2025 14:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL072325

Quant Time: Jul 24 05:28:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	10.729	-7.3	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.303	-3.0	96	0.00
51 T	2-Hexanone	10.000	11.029	-10.3	95	0.00
52 T	Tetrachloroethene	10.000	9.163	8.4	97	0.00
53 T	Toluene	10.000	10.294	-2.9	93	0.00
54 T	1,2-Dibromoethane	10.000	10.331	-3.3	96	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.759	2.4	95	0.00
57 T	Chlorobenzene	10.000	9.623	3.8	95	0.00
58 T	Ethyl Benzene	10.000	10.504	-5.0	96	0.00
59 T	m/p-Xylene	20.000	21.160	-5.8	97	0.00
60 T	o-Xylene	10.000	10.499	-5.0	97	0.00
61 T	Styrene	10.000	11.185	-11.9	95	0.00
62	Isopropylbenzene	10.000	10.398	-4.0	97	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.340	6.6	98	0.00
64	n-propylbenzene	10.000	10.460	-4.6	97	0.00
65	tert-Butylbenzene	10.000	10.512	-5.1	97	0.00
66 T	Benzyl Chloride	10.000	11.634	-16.3	90	0.00
67	sec-Butylbenzene	10.000	10.221	-2.2	97	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.397	-4.0	93	0.00
69	p-Isopropyltoluene	10.000	10.677	-6.8	96	0.00
70	n-Butylbenzene	10.000	11.197	-12.0	96	0.00
71	2-Chlorotoluene	10.000	10.376	-3.8	96	0.00
72 T	4-Ethyltoluene	10.000	10.772	-7.7	96	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.951	-9.5	96	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.017	-10.2	97	0.00
75 T	1,3-Dichlorobenzene	10.000	10.165	-1.6	98	0.00
76 T	1,4-Dichlorobenzene	10.000	10.333	-3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.839	1.6	97	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.091	9.1	97	0.00
79 T	Naphthalene	10.000	10.342	-3.4	97	0.00
80 T	Naphthalene,2-methyl-	10.000	9.951	0.5	96	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.181	-1.8	95	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>Q2712</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>07/29/2025 08:28</u>
Lab File ID:	<u>VL042773.D</u>	Init. Calib. Date(s):	<u>07/23/2025 07/23/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:58 13:00</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.528	0.450		-14.77	30
1,1-Dichloroethene	0.468	0.422		-9.83	30
cis-1,2-Dichloroethene	1.378	1.349		-2.1	30
1,1,1-Trichloroethane	2.158	2.076		-3.8	30
Trichloroethene	0.455	0.441		-3.08	30
Tetrachloroethene	0.393	0.370		-5.85	30
1-Bromo-4-Fluorobenzene	0.792	0.800		1.01	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\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 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 07/30/2025
 Supervised By : Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:05:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 1 2025

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	145476	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	401016	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.885	117	363840	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 291247 10.108 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	181155	9.418	ppbv	98
3) Chlorodifluoromethane	1.476	51	251592	10.041	ppbv	99
4) Chloromethane	1.534	50	73723	9.474	ppbv	98
5) Vinyl Chloride	1.580	62	65522	8.522	ppbv	96
6) Bromomethane	1.667	94	27694	9.318	ppbv	94
7) Chloroethane	1.706	64	27329	9.200	ppbv	93
8) Dichlorotetrafluoroethane	1.554	85	150558	9.518	ppbv	99
9) Propene	1.482	41	88480	9.716	ppbv	96
10) Heptane	4.984	43	251985	10.262	ppbv	98
11) Trichlorofluoromethane	1.877	101	183526	9.256	ppbv	96
12) 1,1,2-Trichlorotrifluoro...	2.139	101	140976	9.357	ppbv	98
13) Ethanol	1.722	45	8199	11.213	ppbv	92
14) Bromoethene	1.783	108	51955	9.739	ppbv	96
15) Acetone	1.835	43	156397	7.786	ppbv	99
16) 1,3-Butadiene	1.609	39	76605	8.940	ppbv	100
17) tert-Butyl alcohol	2.039	59	168866	9.321	ppbv	99
18) 1,1-Dichloroethene	2.036	96	61443	9.025	ppbv	95
19) Isopropyl Alcohol	1.887	45	97689	9.151	ppbv	97
20) Methylene Chloride	2.062	84	54464	8.604	ppbv	97
21) Allyl Chloride	2.097	41	120881	9.764	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	69760	9.526	ppbv	97
23) Vinyl Acetate	2.463	43	281244	11.548	ppbv	98
24) 1,1-Dichloroethane	2.408	63	140141	9.323	ppbv	98
25) Ethyl Acetate	2.835	43	451618	10.157	ppbv	99
26) Hexane	2.826	57	194029	9.947	ppbv	98
27) Carbon Disulfide	2.152	76	174164	10.430	ppbv #	92
28) Methyl tert-Butyl Ether	2.441	73	103653	11.249	ppbv	97
29) Chloroform	2.848	83	303505	10.070	ppbv	98
30) Cyclohexane	3.858	84	161614	9.770	ppbv	96
31) cis-1,2-Dichloroethene	2.722	61	196176	9.787	ppbv	96
32) 1,1,1-Trichloroethane	3.369	97	301986	9.619	ppbv	99
34) 2-Butanone	2.557	43	298973	10.525	ppbv	100
35) Carbon Tetrachloride	3.768	117	315663	10.597	ppbv	96
36) Benzene	3.657	78	394734	10.386	ppbv	99
37) 1,2-Dichloroethane	3.217	62	238496	10.417	ppbv	100
38) Trichloroethene	4.554	130	176737	9.680	ppbv	95
39) 1,2-Dichloropropane	4.315	63	142961	10.190	ppbv	95
40) 1,4-Dioxane	4.583	88	63605	9.727	ppbv #	93
41) Tetrahydrofuran	3.055	42	157177	10.874	ppbv	98
42) Bromodichloromethane	4.493	83	327576	10.986	ppbv	98
43) Methyl Methacrylate	4.881	69	151353	11.204	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	665750	10.747	ppbv	99
45) t-1,3-Dichloropropene	6.415	75	171240	11.304	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 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 07/30/2025
 Supervised By : Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:05:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	211694	11.028	ppbv	95
47) 1,1,2-Trichloroethane	6.580	97	151959	10.161	ppbv	98
48) Dibromochloromethane	7.389	129	269997	11.373	ppbv	100
49) Bromoform	9.487	173	236181	11.409	ppbv	99
50) 4-Methyl-2-Pentanone	5.755	43	396599	10.839	ppbv	99
51) 2-Hexanone	7.441	43	322404	11.660	ppbv #	99
52) Tetrachloroethene	8.228	164	148349	9.417	ppbv	96
53) Toluene	6.936	91	437014	10.708	ppbv	100
54) 1,2-Dibromoethane	7.655	107	227138	10.750	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	199954	10.570	ppbv	99
57) Chlorobenzene	8.927	112	356427	10.122	ppbv	99
58) Ethyl Benzene	9.357	91	613946	10.685	ppbv	97
59) m/p-Xylene	9.555	91	1016691m	22.141	ppbv	
60) o-Xylene	9.969	91	501341	10.926	ppbv	99
61) Styrene	9.875	104	212719	11.021	ppbv	98
62) Isopropylbenzene	10.542	105	730477	10.793	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	294522	9.998	ppbv	100
64) n-propylbenzene	10.992	120	196430	11.132	ppbv	98
65) tert-Butylbenzene	11.532	119	653373	10.868	ppbv	99
66) Benzyl Chloride	11.616	91	63028	12.771	ppbv	99
67) sec-Butylbenzene	11.768	105	917197	10.727	ppbv	100
69) p-Isopropyltoluene	11.927	119	784325	11.249	ppbv	100
70) n-Butylbenzene	12.283	91	803938	11.937	ppbv	100
71) 2-Chlorotoluene	10.904	91	558173	10.755	ppbv	99
72) 4-Ethyltoluene	11.128	105	625088	11.407	ppbv	99
73) 1,3,5-Trimethylbenzene	11.205	105	519009	11.504	ppbv	97
74) 1,2,4-Trimethylbenzene	11.539	105	573490	11.651	ppbv	98
75) 1,3-Dichlorobenzene	11.610	146	371336	10.761	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	367182	10.874	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	355188	10.473	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	292858	9.540	ppbv	100
79) Naphthalene	13.513	128	570905	10.659	ppbv	99
80) Naphthalene,2-methyl-	14.458	142	257656	9.687	ppbv	99
81) 1,2,4-Trichlorobenzene	13.442	180	323672	10.749	ppbv	99

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

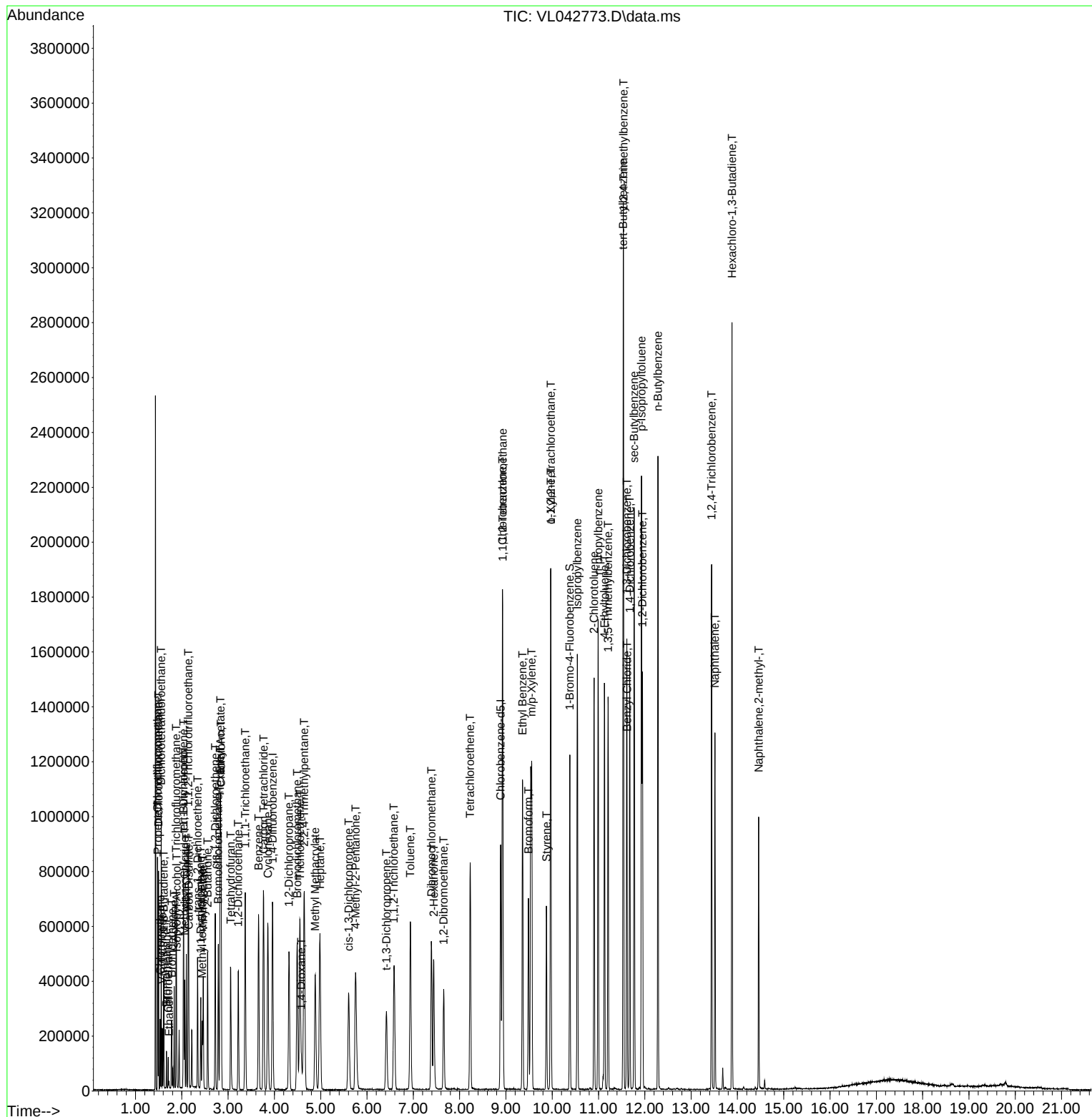
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Quant Time: Jul 30 01:05:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
 Supervised By : Mahesh Dadoda 07/30/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jul 30 01:05:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	91	0.00
2 T	Dichlorodifluoromethane	1.322	1.245	5.8	95	0.00
3	Chlorodifluoromethane	1.722	1.729	-0.4	97	0.00
4	Chloromethane	0.535	0.507	5.2	96	0.00
5 T	Vinyl Chloride	0.528	0.450	14.8	100	0.00
6 T	Bromomethane	0.204	0.190	6.9	98	0.00
7	Chloroethane	0.204	0.188	7.8	97	0.00
8 T	Dichlorotetrafluoroethane	1.087	1.035	4.8	97	0.00
9 T	Propene	0.626	0.608	2.9	94	0.00
10 T	Heptane	1.688	1.732	-2.6	97	0.00
11 T	Trichlorofluoromethane	1.363	1.262	7.4	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.036	0.969	6.5	94	0.00
13	Ethanol	0.083	0.056	32.5#	103	0.00
14 T	Bromoethene	0.367	0.357	2.7	97	0.00
15 T	Acetone	1.381	1.075	22.2	99	0.00
16 T	1,3-Butadiene	0.589	0.527	10.5	95	0.00
17	tert-Butyl alcohol	1.245	1.161	6.7	91	0.00
18 T	1,1-Dichloroethene	0.468	0.422	9.8	96	0.00
19 T	Isopropyl Alcohol	0.734	0.672	8.4	93	0.00
20 T	Methylene Chloride	0.435	0.374	14.0	102	0.00
21 T	Allyl Chloride	0.851	0.831	2.4	95	0.00
22 T	trans-1,2-Dichloroethene	0.503	0.480	4.6	95	0.00
23 T	Vinyl Acetate	1.674	1.933	-15.5	104	0.00
24 T	1,1-Dichloroethane	1.033	0.963	6.8	93	0.00
25 T	Ethyl Acetate	3.056	3.104	-1.6	96	0.00
26 T	Hexane	1.341	1.334	0.5	95	0.00
27 T	Carbon Disulfide	1.148	1.197	-4.3	101	0.00
28 T	Methyl tert-Butyl Ether	0.633	0.713	-12.6	117	0.00
29 T	Chloroform	2.072	2.086	-0.7	100	0.00
30 T	Cyclohexane	1.137	1.111	2.3	90	0.00
31 T	cis-1,2-Dichloroethene	1.378	1.349	2.1	94	0.00
32 T	1,1,1-Trichloroethane	2.158	2.076	3.8	97	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	87	0.00
34 T	2-Butanone	0.708	0.746	-5.4	97	0.00
35 T	Carbon Tetrachloride	0.743	0.787	-5.9	97	0.00
36 T	Benzene	0.948	0.984	-3.8	95	0.00
37 T	1,2-Dichloroethane	0.571	0.595	-4.2	96	0.00
38 T	Trichloroethene	0.455	0.441	3.1	94	0.00
39 T	1,2-Dichloropropane	0.350	0.356	-1.7	95	0.00
40 T	1,4-Dioxane	0.163	0.159	2.5	97	0.00
41 T	Tetrahydrofuran	0.360	0.392	-8.9	94	0.00
42 T	Bromodichloromethane	0.744	0.817	-9.8	98	0.00
43	Methyl Methacrylate	0.337	0.377	-11.9	94	0.00
44 T	2,2,4-Trimethylpentane	1.545	1.660	-7.4	97	0.00
45 T	t-1,3-Dichloropropene	0.378	0.427	-13.0	92	0.00
46 T	cis-1,3-Dichloropropene	0.479	0.528	-10.2	90	0.00
47 T	1,1,2-Trichloroethane	0.373	0.379	-1.6	95	0.00
48 T	Dibromochloromethane	0.592	0.673	-13.7	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jul 30 01:05:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	0.516	0.589	-14.1	96	0.00
50 T	4-Methyl-2-Pentanone	0.912	0.989	-8.4	96	0.00
51 T	2-Hexanone	0.690	0.804	-16.5	96	0.00
52 T	Tetrachloroethene	0.393	0.370	5.9	95	0.00
53 T	Toluene	1.018	1.090	-7.1	92	0.00
54 T	1,2-Dibromoethane	0.527	0.566	-7.4	95	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
56	1,1,1,2-Tetrachloroethane	0.520	0.550	-5.8	98	0.00
57 T	Chlorobenzene	0.968	0.980	-1.2	96	0.00
58 T	Ethyl Benzene	1.579	1.687	-6.8	94	0.00
59 T	m/p-Xylene	1.262	1.397	-10.7	98	0.00
60 T	o-Xylene	1.261	1.378	-9.3	97	0.00
61 T	Styrene	0.531	0.585	-10.2	90	0.00
62	Isopropylbenzene	1.860	2.008	-8.0	96	0.00
63 T	1,1,2,2-Tetrachloroethane	0.810	0.809	0.1	101	0.00
64	n-propylbenzene	0.485	0.540	-11.3	99	0.00
65	tert-Butylbenzene	1.652	1.796	-8.7	96	0.00
66 T	Benzyl Chloride	0.136	0.173	-27.2	94	0.00
67	sec-Butylbenzene	2.350	2.521	-7.3	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.792	0.800	-1.0	86	0.00
69	p-Isopropyltoluene	1.916	2.156	-12.5	96	0.00
70	n-Butylbenzene	1.851	2.210	-19.4	98	0.00
71	2-Chlorotoluene	1.426	1.534	-7.6	95	0.00
72 T	4-Ethyltoluene	1.506	1.718	-14.1	97	0.00
73 T	1,3,5-Trimethylbenzene	1.240	1.426	-15.0	96	0.00
74 T	1,2,4-Trimethylbenzene	1.353	1.576	-16.5	98	0.00
75 T	1,3-Dichlorobenzene	0.948	1.021	-7.7	99	0.00
76 T	1,4-Dichlorobenzene	0.928	1.009	-8.7	97	0.00
77 T	1,2-Dichlorobenzene	0.932	0.976	-4.7	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.844	0.805	4.6	97	0.00
79 T	Naphthalene	0.958	1.569	-63.8#	95	0.00
80 T	Naphthalene,2-methyl-	0.326	0.708	-117.2#	89	0.00
81 T	1,2,4-Trichlorobenzene	0.635	0.890	-40.2#	96	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jul 30 01:05:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	91	0.00
2 T	Dichlorodifluoromethane	10.000	9.418	5.8	95	0.00
3	Chlorodifluoromethane	10.000	10.041	-0.4	97	0.00
4	Chloromethane	10.000	9.474	5.3	96	0.00
5 T	Vinyl Chloride	10.000	8.522	14.8	100	0.00
6 T	Bromomethane	10.000	9.318	6.8	98	0.00
7	Chloroethane	10.000	9.200	8.0	97	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.518	4.8	97	0.00
9 T	Propene	10.000	9.716	2.8	94	0.00
10 T	Heptane	10.000	10.262	-2.6	97	0.00
11 T	Trichlorofluoromethane	10.000	9.256	7.4	94	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.357	6.4	94	0.00
13	Ethanol	10.000	11.213	-12.1	103	0.00
14 T	Bromoethene	10.000	9.739	2.6	97	0.00
15 T	Acetone	10.000	7.786	22.1	99	0.00
16 T	1,3-Butadiene	10.000	8.940	10.6	95	0.00
17	tert-Butyl alcohol	10.000	9.321	6.8	91	0.00
18 T	1,1-Dichloroethene	10.000	9.025	9.7	96	0.00
19 T	Isopropyl Alcohol	10.000	9.151	8.5	93	0.00
20 T	Methylene Chloride	10.000	8.604	14.0	102	0.00
21 T	Allyl Chloride	10.000	9.764	2.4	95	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.526	4.7	95	0.00
23 T	Vinyl Acetate	10.000	11.548	-15.5	104	0.00
24 T	1,1-Dichloroethane	10.000	9.323	6.8	93	0.00
25 T	Ethyl Acetate	10.000	10.157	-1.6	96	0.00
26 T	Hexane	10.000	9.947	0.5	95	0.00
27 T	Carbon Disulfide	10.000	10.430	-4.3	101	0.00
28 T	Methyl tert-Butyl Ether	10.000	11.249	-12.5	117	0.00
29 T	Chloroform	10.000	10.070	-0.7	100	0.00
30 T	Cyclohexane	10.000	9.770	2.3	90	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.787	2.1	94	0.00
32 T	1,1,1-Trichloroethane	10.000	9.619	3.8	97	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	87	0.00
34 T	2-Butanone	10.000	10.525	-5.3	97	0.00
35 T	Carbon Tetrachloride	10.000	10.597	-6.0	97	0.00
36 T	Benzene	10.000	10.386	-3.9	95	0.00
37 T	1,2-Dichloroethane	10.000	10.417	-4.2	96	0.00
38 T	Trichloroethene	10.000	9.680	3.2	94	0.00
39 T	1,2-Dichloropropane	10.000	10.190	-1.9	95	0.00
40 T	1,4-Dioxane	10.000	9.727	2.7	97	0.00
41 T	Tetrahydrofuran	10.000	10.874	-8.7	94	0.00
42 T	Bromodichloromethane	10.000	10.986	-9.9	98	0.00
43	Methyl Methacrylate	10.000	11.204	-12.0	94	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.747	-7.5	97	0.00
45 T	t-1,3-Dichloropropene	10.000	11.304	-13.0	92	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.028	-10.3	90	0.00
47 T	1,1,2-Trichloroethane	10.000	10.161	-1.6	95	0.00
48 T	Dibromochloromethane	10.000	11.373	-13.7	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042773.D
 Acq On : 29 Jul 2025 08:28
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Jul 30 01:05:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 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	11.409	-14.1	96	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.839	-8.4	96	0.00
51 T	2-Hexanone	10.000	11.660	-16.6	96	0.00
52 T	Tetrachloroethene	10.000	9.417	5.8	95	0.00
53 T	Toluene	10.000	10.708	-7.1	92	0.00
54 T	1,2-Dibromoethane	10.000	10.750	-7.5	95	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	86	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.570	-5.7	98	0.00
57 T	Chlorobenzene	10.000	10.122	-1.2	96	0.00
58 T	Ethyl Benzene	10.000	10.685	-6.9	94	0.00
59 T	m/p-Xylene	20.000	22.141	-10.7	98	0.00
60 T	o-Xylene	10.000	10.926	-9.3	97	0.00
61 T	Styrene	10.000	11.021	-10.2	90	0.00
62	Isopropylbenzene	10.000	10.793	-7.9	96	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.998	0.0	101	0.00
64	n-propylbenzene	10.000	11.132	-11.3	99	0.00
65	tert-Butylbenzene	10.000	10.868	-8.7	96	0.00
66 T	Benzyl Chloride	10.000	12.771	-27.7	94	0.00
67	sec-Butylbenzene	10.000	10.727	-7.3	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.108	-1.1	86	0.00
69	p-Isopropyltoluene	10.000	11.249	-12.5	96	0.00
70	n-Butylbenzene	10.000	11.937	-19.4	98	0.00
71	2-Chlorotoluene	10.000	10.755	-7.6	95	0.00
72 T	4-Ethyltoluene	10.000	11.407	-14.1	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.504	-15.0	96	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.651	-16.5	98	0.00
75 T	1,3-Dichlorobenzene	10.000	10.761	-7.6	99	0.00
76 T	1,4-Dichlorobenzene	10.000	10.874	-8.7	97	0.00
77 T	1,2-Dichlorobenzene	10.000	10.473	-4.7	99	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.540	4.6	97	0.00
79 T	Naphthalene	10.000	10.659	-6.6	95	0.00
80 T	Naphthalene,2-methyl-	10.000	9.687	3.1	89	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.749	-7.5	96	0.00

(#) = Out of Range

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



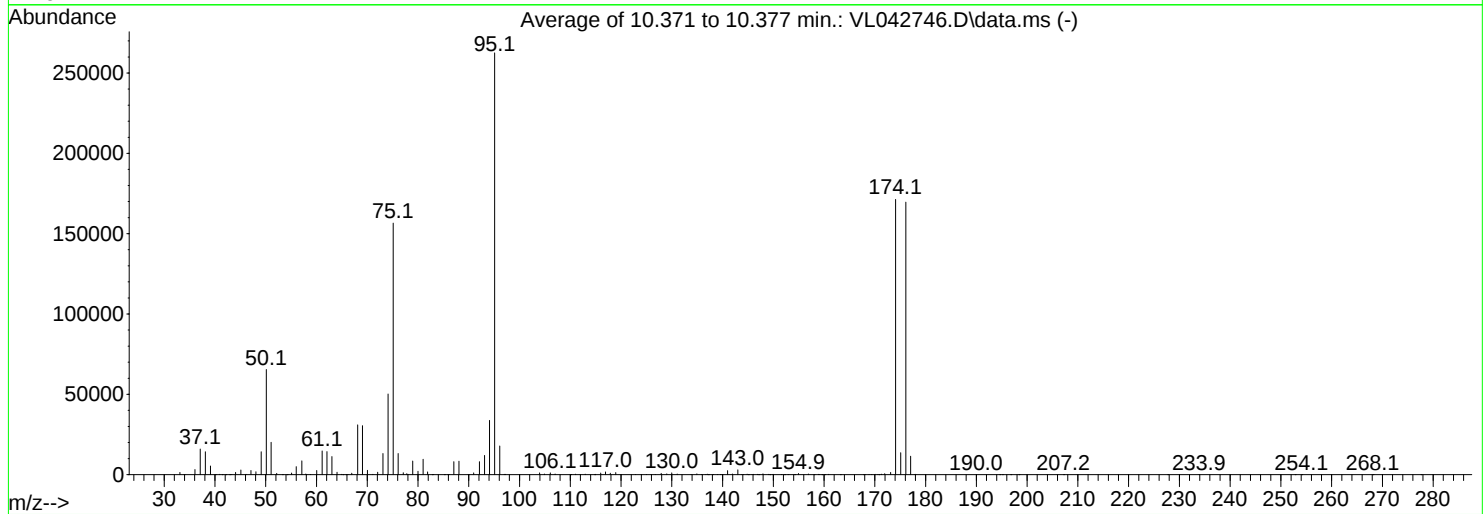
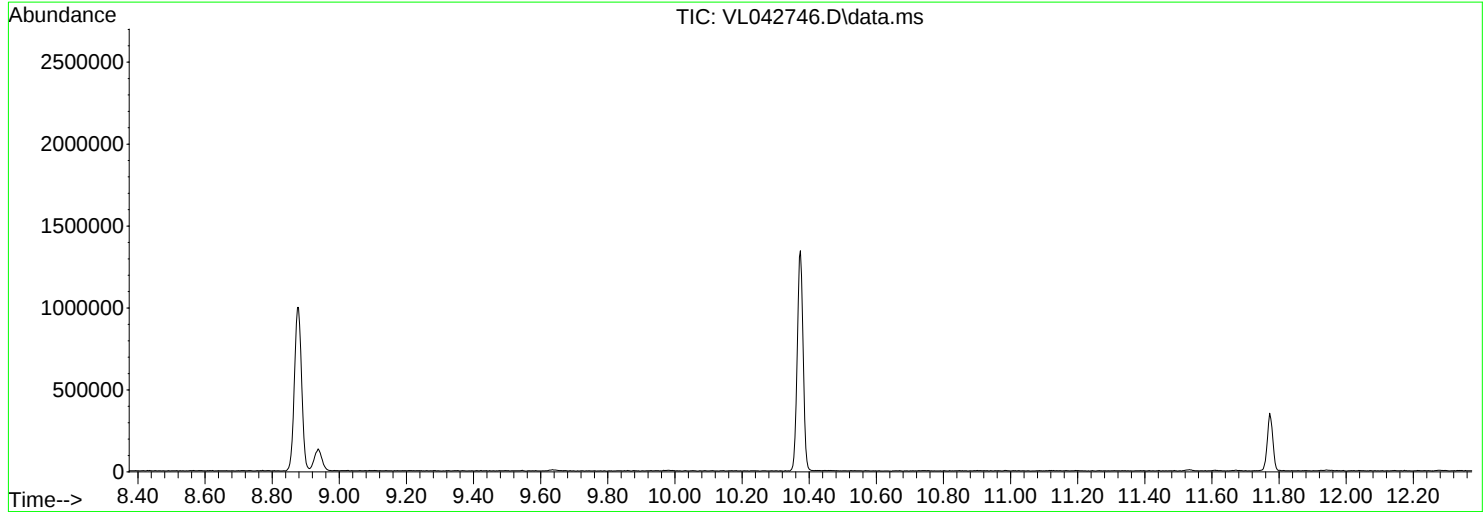
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072325\
Data File : VL042746.D
Acq On : 23 Jul 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\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025



AutoFind: Scans 3177, 3178, 3179; Background Corrected with Scan 3150

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.9	65392	PASS
75	95	30	66	59.7	156629	PASS
95	95	100	100	100.0	262571	PASS
96	95	5	9	6.8	17820	PASS
173	174	0.00	2	0.8	1428	PASS
174	95	50	120	65.3	171349	PASS
175	174	4	9	8.0	13693	PASS
176	174	93	101	99.0	169621	PASS
177	176	5	9	6.7	11431	PASS

Average of 10.371 to 10.377 min.: VL042746.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1369	43.30	125	54.20	18	64.05	154
33.90	43	44.05	1422	55.10	1040	64.95	18
36.05	3236	45.10	2895	56.00	5005	65.20	5
37.10	15944	46.10	249	57.10	8550	65.80	5
38.10	14231	47.10	2650	57.90	360	66.20	110
39.10	5435	48.05	1854	58.10	92	66.95	924
40.05	14	49.10	14225	58.80	138	68.10	30979
40.95	190	50.10	65392	60.05	2548	69.05	30510
41.40	38	51.05	20174	61.10	14709	70.05	2713
42.10	41	52.15	765	62.05	14328	71.10	169
42.90	56	53.30	34	63.05	11233	72.05	1474

Average of 10.371 to 10.377 min.: VL042746.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.10	13120	82.80	40	94.10	33749	111.05	341
74.10	50187	83.10	154	95.10	262571	111.95	142
75.10	156629	85.20	20	96.10	17820	112.95	337
76.10	13183	85.90	18	97.00	185	114.80	39
77.10	1177	86.10	78	97.20	167	114.95	193
77.80	567	87.05	8039	103.95	1104	116.00	985
78.00	211	88.05	8386	104.90	399	116.95	1737
78.95	8439	89.90	63	106.05	1080	117.90	929
80.00	2100	90.95	1122	107.00	361	118.95	1287
81.00	9549	92.10	8075	110.00	62	120.00	85
81.90	1728	93.10	11994	110.15	116	122.85	115

Average of 10.371 to 10.377 min.: VL042746.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
124.00	81	136.70	128	144.15	116	151.65	87
125.00	90	137.00	342	144.85	278	152.20	43
125.95	131	137.20	40	145.10	42	152.90	73
126.75	97	138.20	64	145.80	133	153.05	134
127.90	806	139.05	122	146.10	219	154.20	58
129.00	544	139.65	92	146.90	194	154.95	716
130.00	1065	139.90	25	147.10	63	156.90	423
131.05	458	141.00	2537	147.95	546	158.00	21
133.80	139	141.95	459	149.10	187	158.90	176
134.95	492	143.00	3049	149.30	59	159.10	74
135.90	71	143.80	65	149.95	225	159.60	21

Average of 10.371 to 10.377 min.: VL042746.D\data.ms

BFB

Modified:subtracted

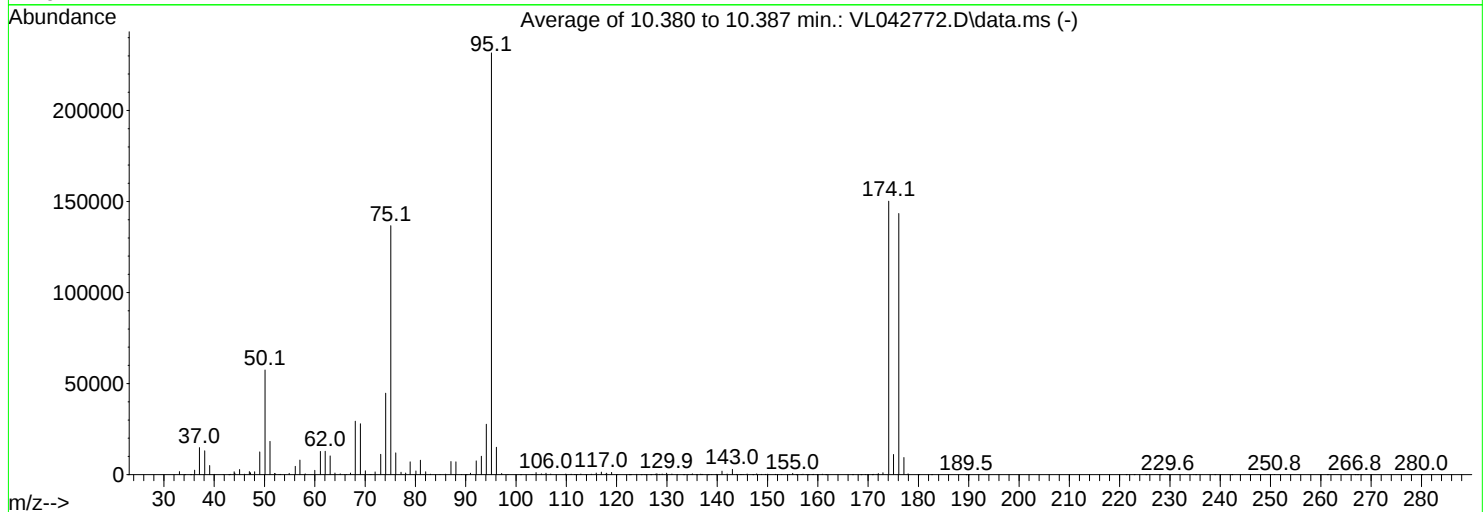
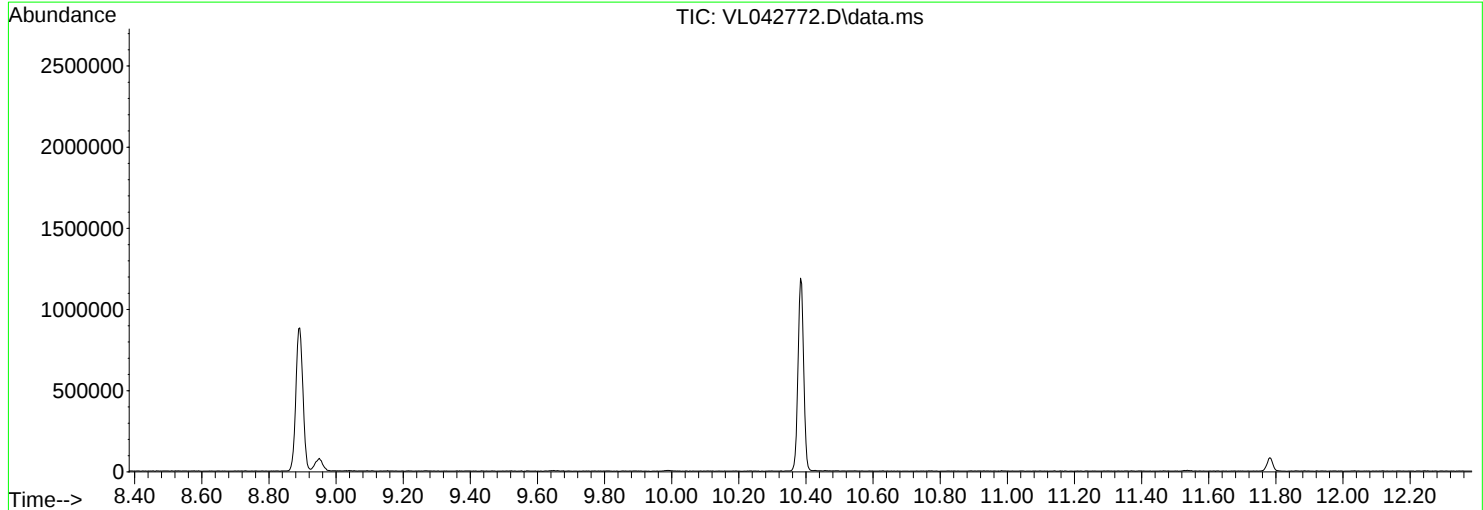
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.10	38	171.95	628	196.80	35		
160.90	253	173.10	1428	198.40	32		
163.20	57	174.10	171349	207.20	32		
167.80	30	175.10	13693	227.70	17		
168.10	69	176.10	169621	233.90	71		
168.85	148	177.05	11431	252.80	17		
169.40	135	177.90	77	254.10	43		
170.05	234	178.05	216	268.15	59		
170.60	80	190.00	93	277.60	38		
170.80	29	194.60	17				
171.30	280	195.15	44				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042772.D
Acq On : 29 Jul 2025 07:37
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\VL072325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Jul 24 05:24:41 2025



AutoFind: Scans 3180, 3181, 3182; 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	24.8	57437	PASS
75	95	30	66	59.0	136723	PASS
95	95	100	100	100.0	231659	PASS
96	95	5	9	6.5	15049	PASS
173	174	0.00	2	0.7	1083	PASS
174	95	50	120	64.8	150165	PASS
175	174	4	9	7.4	11110	PASS
176	174	93	101	95.5	143419	PASS
177	176	5	9	6.5	9388	PASS

Average of 10.380 to 10.387 min.: VL042772.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1698	43.95	1598	52.20	473	64.00	85
34.10	34	44.10	843	52.90	91	65.05	42
35.30	42	45.05	2802	53.20	182	65.95	12
36.10	2492	46.05	267	54.90	738	66.30	5
37.05	14881	47.00	1640	56.10	4541	67.10	896
38.10	13066	47.20	1067	57.05	8003	68.05	29365
39.10	5020	48.05	1559	58.10	407	69.05	27941
40.00	185	49.05	12441	60.00	2377	70.05	2074
41.80	82	50.10	57437	61.10	12758	71.00	104
42.90	20	51.10	18251	62.05	12840	71.20	63
43.20	155	52.00	689	63.05	10324	72.00	1464

Average of 10.380 to 10.387 min.: VL042772.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.10	11121	84.90	73	96.10	15049	111.65	116
74.10	44709	86.00	283	97.15	641	111.90	134
75.10	136723	87.05	7186	98.40	54	112.15	114
76.10	11943	88.05	7066	100.90	18	112.90	344
77.15	1295	89.15	50	103.20	81	113.90	22
78.05	848	90.10	18	104.00	1181	114.95	296
78.95	7013	90.95	828	105.05	452	115.95	889
80.10	1995	92.10	7551	105.95	806	116.95	1369
81.00	7928	93.10	10114	106.90	393	117.80	292
82.05	1622	94.10	27651	109.90	343	118.00	782
83.00	241	95.10	231659	110.95	294	119.00	1229

Average of 10.380 to 10.387 min.: VL042772.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
120.10	105	129.05	348	137.10	144	145.95	322
122.50	29	129.95	778	138.20	18	147.10	39
122.75	39	131.00	346	138.90	105	147.85	437
123.95	196	132.10	72	139.80	200	148.80	168
124.90	46	133.30	24	140.95	1972	149.60	143
125.50	114	134.25	80	141.95	385	150.05	247
125.80	22	134.80	137	143.00	2934	151.60	172
126.80	46	135.05	406	143.80	188	152.00	103
127.70	280	135.90	22	144.60	130	152.80	115
128.00	551	136.65	245	144.85	102	154.00	88
128.50	140	136.90	157	145.15	50	154.30	70

Average of 10.380 to 10.387 min.: VL042772.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
155.00	672	161.60	40	175.05	11110	228.10	24
155.70	29	166.90	42	176.10	143419	229.60	77
156.00	133	168.60	20	177.10	9388	234.75	66
156.70	92	169.45	64	177.95	468	235.10	41
157.05	299	169.90	45	180.00	27	238.90	18
157.80	55	170.80	33	182.60	22	242.30	22
158.10	31	171.00	219	189.50	33	250.80	48
158.90	72	171.80	279	189.90	26	261.30	25
159.15	223	172.05	536	221.30	21	266.80	46
159.95	88	172.95	1083	222.90	21	267.30	17
160.90	280	174.10	150165	225.20	21	268.00	43

Average of 10.380 to 10.387 min.: VL042772.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
280.00	22						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	
Client Sample ID:	VL0729ABL01	SDG No.:	Q2712
Lab Sample ID:	VL0729ABL01	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
VL042774.D	1		07/29/25 09:16	vl072925

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
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	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
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	145000		2.79			
540-36-3	1,4-Difluorobenzene	404000		3.962			
3114-55-4	Chlorobenzene-d5	360000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042774.D
 Acq On : 29 Jul 2025 09:16
 Operator : SY/MD
 Sample : VL0729ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0729ABL01

Quant Time: Jul 30 01:06:30 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Jul 24 05:24:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	145155	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	404421	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	360190	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	281407	9.865	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.700%

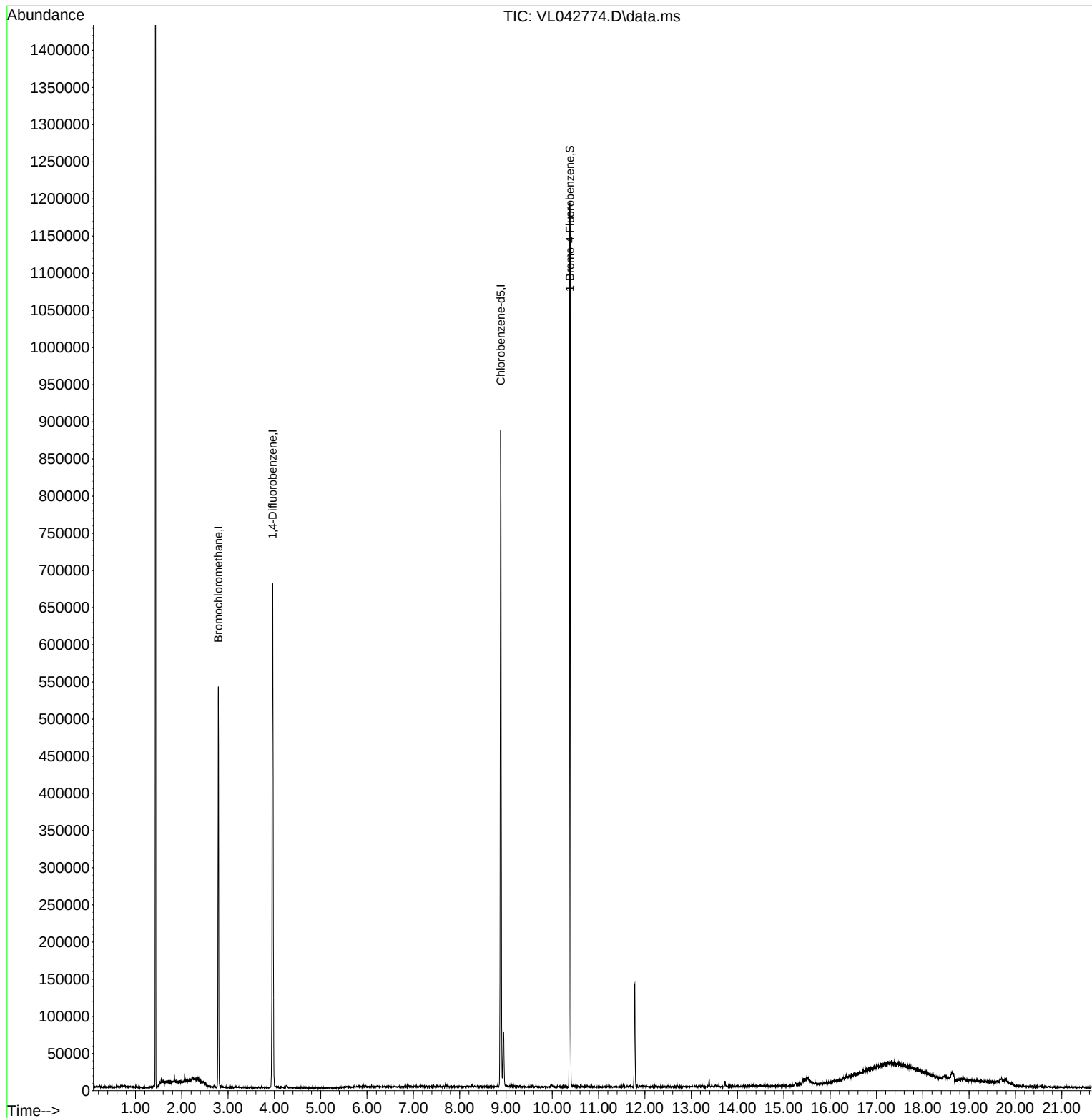
Target Compounds	Qvalue

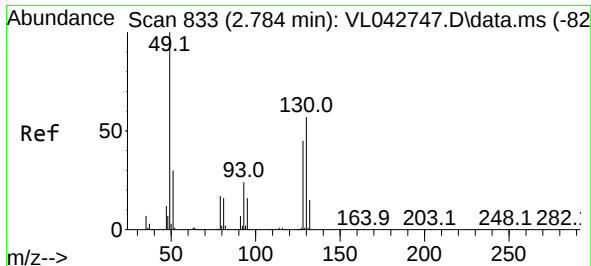
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
Data File : VL042774.D
Acq On : 29 Jul 2025 09:16
Operator : SY/MD
Sample : VL0729ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0729ABL01

Quant Time: Jul 30 01:06:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Jul 24 05:24:41 2025
Response via : Initial Calibration

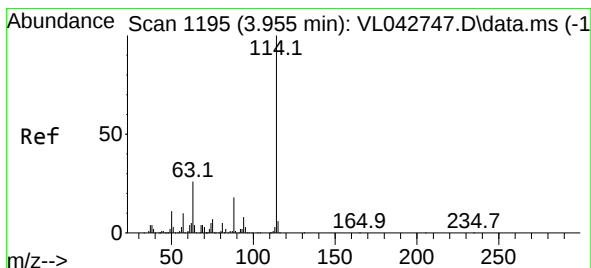
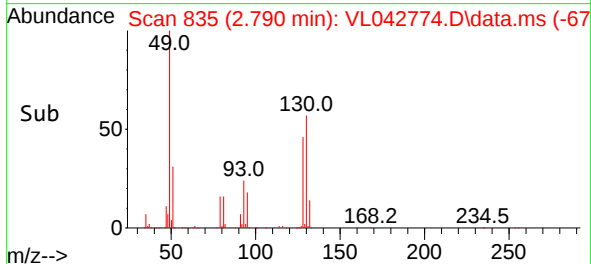
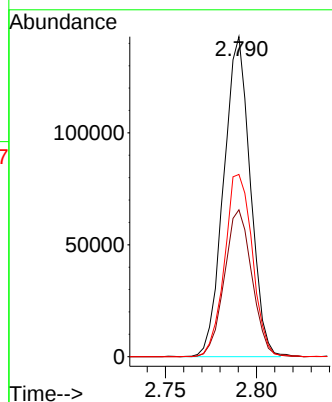
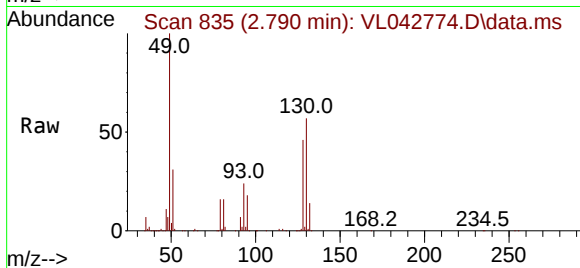




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. 0.006 min
 Lab File: VL042774.D
 Acq: 29 Jul 2025 09:16

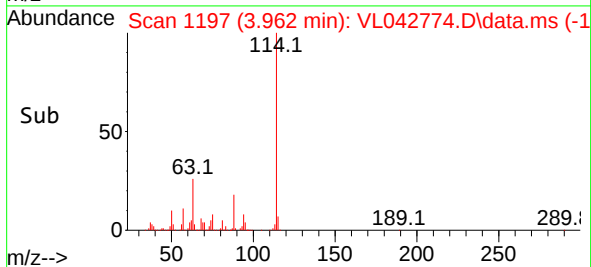
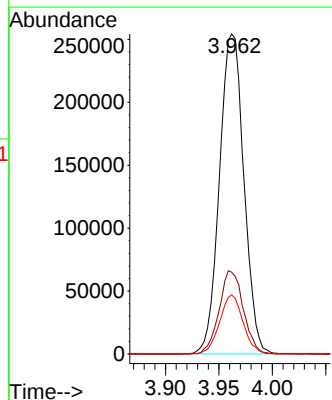
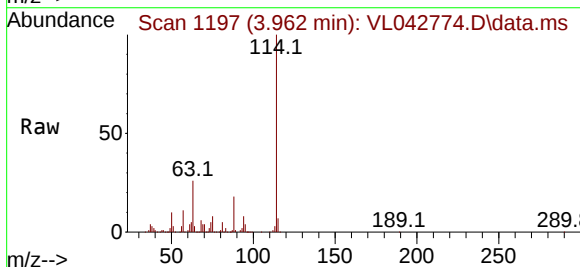
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0729ABL01

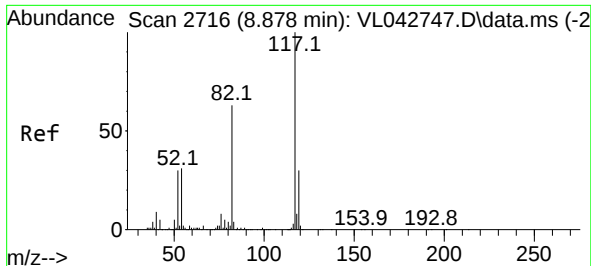
Tgt Ion: 49 Resp: 145155
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 59.6 30.3 90.8



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.962 min Scan# 1197
 Delta R.T. 0.007 min
 Lab File: VL042774.D
 Acq: 29 Jul 2025 09:16

Tgt Ion: 114 Resp: 404421
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.5 30.7
 88 17.7 14.0 21.0

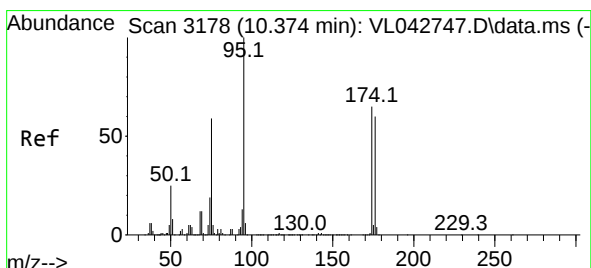
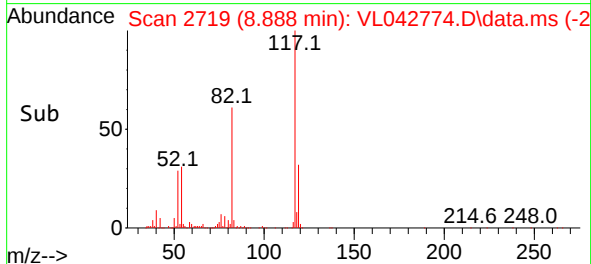
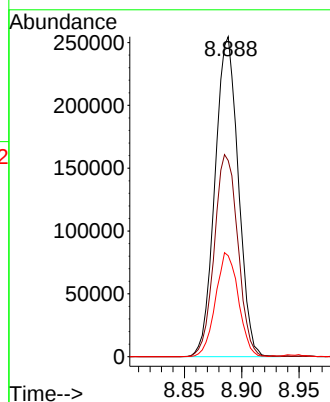
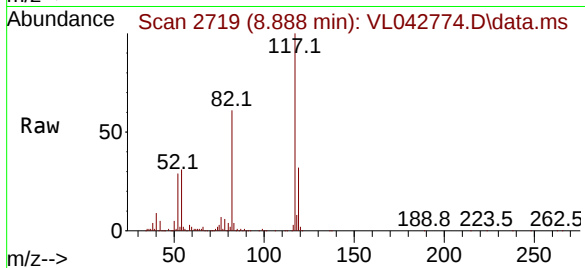




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL042774.D
Acq: 29 Jul 2025 09:16

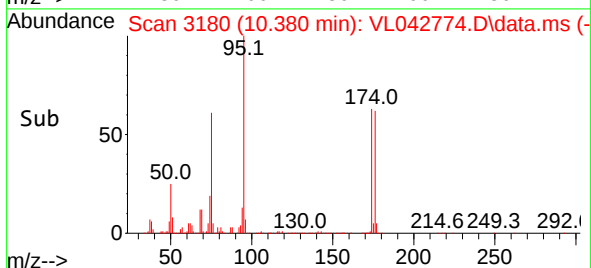
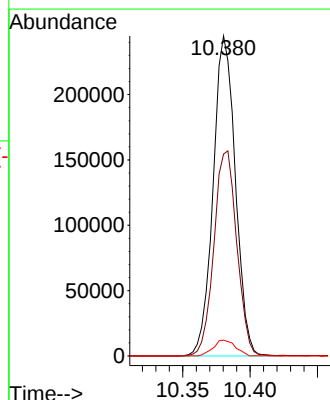
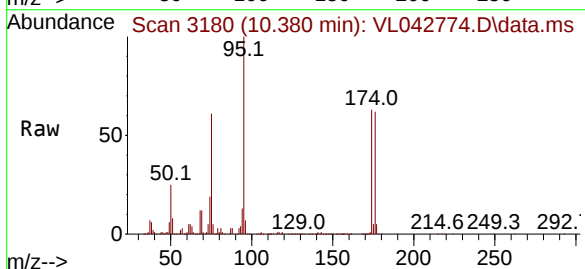
Instrument :
MSVOA_L
ClientSampleId :
VL0729ABL01

Tgt Ion:117 Resp: 360190
Ion Ratio Lower Upper
117 100
82 63.9 53.3 79.9
119 31.9 25.8 38.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.865 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. 0.007 min
Lab File: VL042774.D
Acq: 29 Jul 2025 09:16

Tgt Ion: 95 Resp: 281407
Ion Ratio Lower Upper
95 100
174 66.0 53.8 80.6
175 5.0 4.0 6.0



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	739 Nostrand Ave, Brooklyn, NY	Date Received:	
Client Sample ID:	VL0729ABS01	SDG No.:	Q2712
Lab Sample ID:	VL0729ABS01	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
VL042775.D	1		07/29/25 10:03	vl072925

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.00	20.4		0.080	0.080	ug/m3
75-35-4	1,1-Dichloroethene	8.50	33.7		0.59	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.60	38.1		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.50	51.8		0.11	0.16	ug/m3
79-01-6	Trichloroethene	9.70	52.1		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	9.30	63.1		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	148000		2.787			
540-36-3	1,4-Difluorobenzene	406000		3.962			
3114-55-4	Chlorobenzene-d5	362000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042775.D
 Acq On : 29 Jul 2025 10:03
 Operator : SY/MD
 Sample : VL0729ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0729ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 07/30/2025
 Supervised By :Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:07:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	147720	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	406248	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	362182	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 300507 10.477 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178467	9.138	ppbv	99
3) Chlorodifluoromethane	1.476	51	252532	9.926	ppbv	98
4) Chloromethane	1.534	50	72931	9.230	ppbv	93
5) Vinyl Chloride	1.580	62	62366	7.989	ppbv	93
6) Bromomethane	1.667	94	26031	8.625	ppbv	99
7) Chloroethane	1.706	64	26026	8.628	ppbv	96
8) Dichlorotetrafluoroethane	1.554	85	144832	9.017	ppbv	97
9) Propene	1.483	41	30594m	3.309	ppbv	
10) Heptane	4.981	43	256896	10.303	ppbv	98
11) Trichlorofluoromethane	1.877	101	170043	8.446	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.140	101	136885	8.947	ppbv	98
13) Ethanol	1.722	45	6159	7.996	ppbv	93
14) Bromoethene	1.784	108	49106	9.066	ppbv	100
15) Acetone	1.835	43	144352	7.077	ppbv	98
16) 1,3-Butadiene	1.609	39	75313	8.656	ppbv	98
17) tert-Butyl alcohol	2.042	59	155492	8.452	ppbv	99
18) 1,1-Dichloroethene	2.036	96	58795	8.505	ppbv	94
19) Isopropyl Alcohol	1.887	45	88717	8.184	ppbv #	40
20) Methylene Chloride	2.062	84	51269	7.976	ppbv	98
21) Allyl Chloride	2.097	41	116738	9.286	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	66152	8.896	ppbv	97
23) Vinyl Acetate	2.463	43	260137	10.519	ppbv	99
24) 1,1-Dichloroethane	2.411	63	135661	8.888	ppbv	98
25) Ethyl Acetate	2.839	43	458470	10.154	ppbv	99
26) Hexane	2.829	57	194868	9.839	ppbv	97
27) Carbon Disulfide	2.149	76	163937	9.668	ppbv	97
28) Methyl tert-Butyl Ether	2.441	73	85147	9.100	ppbv	98
29) Chloroform	2.852	83	302152	9.872	ppbv	98
30) Cyclohexane	3.858	84	163305	9.722	ppbv	95
31) cis-1,2-Dichloroethene	2.722	61	195202	9.591	ppbv	97
32) 1,1,1-Trichloroethane	3.369	97	302708	9.495	ppbv	99
34) 2-Butanone	2.557	43	301130	10.464	ppbv	100
35) Carbon Tetrachloride	3.768	117	316452	10.487	ppbv	99
36) Benzene	3.658	78	396529	10.299	ppbv	99
37) 1,2-Dichloroethane	3.221	62	239826	10.340	ppbv	100
38) Trichloroethene	4.551	130	179048	9.680	ppbv	98
39) 1,2-Dichloropropane	4.315	63	147019	10.345	ppbv	96
40) 1,4-Dioxane	4.590	88	58940	8.897	ppbv #	92
41) Tetrahydrofuran	3.056	42	161642	11.039	ppbv	98
42) Bromodichloromethane	4.493	83	331225	10.966	ppbv	98
43) Methyl Methacrylate	4.884	69	151296	11.056	ppbv	100
44) 2,2,4-Trimethylpentane	4.641	57	677642	10.798	ppbv	99
45) t-1,3-Dichloropropene	6.418	75	169889	11.070	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072925\
 Data File : VL042775.D
 Acq On : 29 Jul 2025 10:03
 Operator : SY/MD
 Sample : VL0729ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0729ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 07/30/2025
 Supervised By : Mahesh Dadoda 07/30/2025

Quant Time: Jul 30 01:07:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072325AIR.M

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

QLast Update : Thu Jul 24 05:24:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	216386	11.127	ppbv	95
47) 1,1,2-Trichloroethane	6.587	97	158024	10.431	ppbv	96
48) Dibromochloromethane	7.393	129	267594	11.126	ppbv	99
49) Bromoform	9.490	173	236537	11.279	ppbv	98
50) 4-Methyl-2-Pentanone	5.755	43	403879	10.895	ppbv	99
51) 2-Hexanone	7.441	43	324598	11.588	ppbv #	99
52) Tetrachloroethene	8.231	164	147681	9.254	ppbv	97
53) Toluene	6.939	91	442975	10.714	ppbv	99
54) 1,2-Dibromoethane	7.661	107	227055	10.608	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.930	131	199481	10.593	ppbv	99
57) Chlorobenzene	8.927	112	356684	10.176	ppbv	98
58) Ethyl Benzene	9.360	91	619615	10.833	ppbv	97
59) m/p-Xylene	9.558	91	1017108m	22.251	ppbv	
60) o-Xylene	9.969	91	503091	11.014	ppbv	99
61) Styrene	9.875	104	217700	11.330	ppbv	99
62) Isopropylbenzene	10.545	105	725939	10.775	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	295182	10.066	ppbv	100
64) n-propylbenzene	10.992	120	197294	11.233	ppbv	98
65) tert-Butylbenzene	11.536	119	650437	10.869	ppbv	99
66) Benzyl Chloride	11.620	91	62462	12.714	ppbv	99
67) sec-Butylbenzene	11.772	105	917232	10.776	ppbv	99
69) p-Isopropyltoluene	11.930	119	782429	11.274	ppbv	100
70) n-Butylbenzene	12.286	91	797862	11.901	ppbv	99
71) 2-Chlorotoluene	10.904	91	563888	10.915	ppbv	99
72) 4-Ethyltoluene	11.128	105	619662	11.360	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	514083	11.447	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	565531	11.542	ppbv	94
75) 1,3-Dichlorobenzene	11.610	146	367259	10.692	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	368710	10.969	ppbv	99
77) 1,2-Dichlorobenzene	11.950	146	352249	10.434	ppbv	98
78) Hexachloro-1,3-Butadiene	13.882	225	287825	9.419	ppbv	99
79) Naphthalene	13.516	128	560369	10.516	ppbv	100
80) Naphthalene,2-methyl-	14.458	142	220575	8.489	ppbv	97
81) 1,2,4-Trichlorobenzene	13.442	180	314686	10.508	ppbv	100

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

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042747.D	m/p-Xylene	SAM	7/24/2025 9:02:56 AM	MMDadoda	7/24/2025 2:20:57 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	1,4-Dioxane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	Cyclohexane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	Heptane	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	m/p-Xylene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC002	VL042748.D	trans-1,2-Dichloroethene	SAM	7/24/2025 9:03:01 AM	MMDadoda	7/24/2025 2:20:59 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	1,4-Dioxane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICCC001	VL042749.D	Bromodichloromethane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042749.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Ethanol	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Heptane	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	m/p-Xylene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	Methyl Methacrylate	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC001	VL042749.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:21 AM	MMDadoda	7/24/2025 2:21:02 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	1,4-Dioxane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	2-Hexanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	4-Methyl-2-Pentanone	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Benzyl Chloride	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Bromodichloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042750.D	cis-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Dibromochloromethane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Ethanol	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Heptane	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	m/p-Xylene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Methyl Methacrylate	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	t-1,3-Dichloropropene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Tetrahydrofuran	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.5	VL042750.D	Trichloroethene	SAM	7/24/2025 9:03:31 AM	MMDadoda	7/24/2025 2:21:04 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,1-Trichloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC0.03	VL042752.D	Tetrachloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL072325

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL042752.D	Trichloroethene	SAM	7/24/2025 9:03:05 AM	MMDadoda	7/24/2025 2:21:09 PM	Peak Integrated by Software
VSTDICC015	VL042753.D	m/p-Xylene	SAM	7/24/2025 9:03:41 AM	MMDadoda	7/24/2025 2:21:10 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,1,2,2-Tetrachloroethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	1,2-Dibromoethane	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Carbon Tetrachloride	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Tetrachloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042754.D	Trichloroethene	SAM	7/24/2025 9:03:10 AM	MMDadoda	7/24/2025 2:21:12 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	1,1,2-Trichloroethane	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software
VSTDICV010	VL042755.D	m/p-Xylene	SAM	7/24/2025 9:03:15 AM	MMDadoda	7/24/2025 2:21:15 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042773.D	m/p-Xylene	SAM	7/30/2025 7:57:07 AM	MMDadoda	7/30/2025 3:09:58 PM	Peak Integrated by Software
VL0729ABS01	VL042775.D	m/p-Xylene	SAM	7/30/2025 7:57:14 AM	MMDadoda	7/30/2025 3:10:01 PM	Peak Integrated by Software
VL0729ABS01	VL042775.D	Propene	SAM	7/30/2025 7:57:14 AM	MMDadoda	7/30/2025 3:10:01 PM	Peak Integrated by Software
Q2712-01	VL042776.D	Ethanol	SAM	7/30/2025 7:57:20 AM	MMDadoda	7/30/2025 3:10:03 PM	Peak Integrated by Software
Q2712-01	VL042776.D	Heptane	SAM	7/30/2025 7:57:20 AM	MMDadoda	7/30/2025 3:10:03 PM	Peak Integrated by Software
Q2712-01	VL042776.D	Toluene	SAM	7/30/2025 7:57:20 AM	MMDadoda	7/30/2025 3:10:03 PM	Peak Integrated by Software
Q2712-01	VL042776.D	Trichloroethene	SAM	7/30/2025 7:57:20 AM	MMDadoda	7/30/2025 3:10:03 PM	Peak Integrated by Software
Q2712-01DL	VL042777.D	Ethanol	SAM	7/30/2025 7:58:13 AM	MMDadoda	7/30/2025 3:10:06 PM	Peak Integrated by Software
Q2712-01DL	VL042777.D	m/p-Xylene	SAM	7/30/2025 7:58:13 AM	MMDadoda	7/30/2025 3:10:06 PM	Peak Integrated by Software
Q2712-01DL	VL042777.D	Trichloroethene	SAM	7/30/2025 7:58:13 AM	MMDadoda	7/30/2025 3:10:06 PM	Peak Integrated by Software
Q2712-02	VL042778.D	Heptane	SAM	7/30/2025 7:57:49 AM	MMDadoda	7/30/2025 3:10:08 PM	Peak Integrated by Software
Q2712-02	VL042778.D	m/p-Xylene	SAM	7/30/2025 7:57:49 AM	MMDadoda	7/30/2025 3:10:08 PM	Peak Integrated by Software
Q2712-02	VL042778.D	Propene	SAM	7/30/2025 7:57:49 AM	MMDadoda	7/30/2025 3:10:08 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL072925	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2712-03	VL042780.D	Benzene	SAM	7/30/2025 7:57:24 AM	MMDadoda	7/30/2025 3:10:12 PM	Peak Integrated by Software
Q2712-03	VL042780.D	m/p-Xylene	SAM	7/30/2025 7:57:24 AM	MMDadoda	7/30/2025 3:10:12 PM	Peak Integrated by Software
Q2712-03	VL042780.D	Trichloroethene	SAM	7/30/2025 7:57:24 AM	MMDadoda	7/30/2025 3:10:12 PM	Peak Integrated by Software
Q2712-04	VL042782.D	2,2,4-Trimethylpentane	SAM	7/30/2025 7:57:44 AM	MMDadoda	7/30/2025 3:10:16 PM	Peak Integrated by Software
Q2712-04	VL042782.D	4-Methyl-2-Pentanone	SAM	7/30/2025 7:57:44 AM	MMDadoda	7/30/2025 3:10:16 PM	Peak Integrated by Software
Q2712-04	VL042782.D	Chlorodifluoromethane	SAM	7/30/2025 7:57:44 AM	MMDadoda	7/30/2025 3:10:16 PM	Peak Integrated by Software
Q2712-04	VL042782.D	Heptane	SAM	7/30/2025 7:57:44 AM	MMDadoda	7/30/2025 3:10:16 PM	Peak Integrated by Software
Q2712-04	VL042782.D	Tetrachloroethene	SAM	7/30/2025 7:57:44 AM	MMDadoda	7/30/2025 3:10:16 PM	Peak Integrated by Software
Q2712-04DUP	VL042783.D	2,2,4-Trimethylpentane	SAM	7/30/2025 7:58:27 AM	MMDadoda	7/30/2025 3:10:17 PM	Peak Integrated by Software
Q2712-04DUP	VL042783.D	2-Hexanone	SAM	7/30/2025 7:58:27 AM	MMDadoda	7/30/2025 3:10:17 PM	Peak Integrated by Software
Q2712-04DUP	VL042783.D	4-Ethyltoluene	SAM	7/30/2025 7:58:27 AM	MMDadoda	7/30/2025 3:10:17 PM	Peak Integrated by Software
Q2712-04DUP	VL042783.D	4-Methyl-2-Pentanone	SAM	7/30/2025 7:58:27 AM	MMDadoda	7/30/2025 3:10:17 PM	Peak Integrated by Software
Q2712-04DUP	VL042783.D	Heptane	SAM	7/30/2025 7:58:27 AM	MMDadoda	7/30/2025 3:10:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL072925

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2712-04DUP	VL042783.D	Tetrachloroethene	SAM	7/30/2025 7:58:27 AM	MMDadoda	7/30/2025 3:10:17 PM	Peak Integrated by Software
Q2712-05	VL042784.D	Chlorodifluoromethane	SAM	7/30/2025 7:58:34 AM	MMDadoda	7/30/2025 3:10:19 PM	Peak Integrated by Software
Q2712-05	VL042784.D	Heptane	SAM	7/30/2025 7:58:34 AM	MMDadoda	7/30/2025 3:10:19 PM	Peak Integrated by Software
Q2712-05	VL042784.D	m/p-Xylene	SAM	7/30/2025 7:58:34 AM	MMDadoda	7/30/2025 3:10:19 PM	Peak Integrated by Software
Q2712-05	VL042784.D	Propene	SAM	7/30/2025 7:58:34 AM	MMDadoda	7/30/2025 3:10:19 PM	Peak Integrated by Software
Q2712-05	VL042784.D	Tetrachloroethene	SAM	7/30/2025 7:58:34 AM	MMDadoda	7/30/2025 3:10:19 PM	Peak Integrated by Software
Q2712-06	VL042785.D	2,2,4-Trimethylpentane	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-06	VL042785.D	Carbon Tetrachloride	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-06	VL042785.D	Chlorodifluoromethane	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-06	VL042785.D	Ethyl Benzene	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-06	VL042785.D	Heptane	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-06	VL042785.D	m/p-Xylene	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-06	VL042785.D	Propene	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL072925

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2712-06	VL042785.D	Tetrachloroethene	SAM	7/30/2025 7:57:30 AM	MMDadoda	7/30/2025 3:10:22 PM	Peak Integrated by Software
Q2712-07	VL042786.D	2,2,4-Trimethylpentane	SAM	7/30/2025 7:57:37 AM	MMDadoda	7/30/2025 3:10:24 PM	Peak Integrated by Software
Q2712-07	VL042786.D	4-Methyl-2-Pentanone	SAM	7/30/2025 7:57:37 AM	MMDadoda	7/30/2025 3:10:24 PM	Peak Integrated by Software
Q2712-07	VL042786.D	Carbon Tetrachloride	SAM	7/30/2025 7:57:37 AM	MMDadoda	7/30/2025 3:10:24 PM	Peak Integrated by Software
Q2712-07	VL042786.D	Chlorodifluoromethane	SAM	7/30/2025 7:57:37 AM	MMDadoda	7/30/2025 3:10:24 PM	Peak Integrated by Software
Q2712-07	VL042786.D	Propene	SAM	7/30/2025 7:57:37 AM	MMDadoda	7/30/2025 3:10:24 PM	Peak Integrated by Software
Q2712-07	VL042786.D	Tetrachloroethene	SAM	7/30/2025 7:57:37 AM	MMDadoda	7/30/2025 3:10:24 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM		
Supervise By	Mahesh Dadoda	Supervise On	7/24/2025 2:21:30 PM		
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2645			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2645			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042746.D	23 Jul 2025 08:00	SY/MD	Ok
2	VSTDICCC010	VL042747.D	23 Jul 2025 08:58	SY/MD	Ok,M
3	VSTDICCC002	VL042748.D	23 Jul 2025 09:34	SY/MD	Ok,M
4	VSTDICCC001	VL042749.D	23 Jul 2025 10:08	SY/MD	Ok,M
5	VSTDICCC0.5	VL042750.D	23 Jul 2025 10:42	SY/MD	Ok,M
6	VSTDICCC0.1	VL042751.D	23 Jul 2025 11:16	SY/MD	Not Ok
7	VSTDICCC0.03	VL042752.D	23 Jul 2025 11:50	SY/MD	Ok,M
8	VSTDICCC015	VL042753.D	23 Jul 2025 12:26	SY/MD	Ok,M
9	VSTDICCC0.1	VL042754.D	23 Jul 2025 13:00	SY/MD	Ok,M
10	VSTDICCV010	VL042755.D	23 Jul 2025 14:33	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL072925

Review By	Semsettin Yesilyurt	Review On	7/30/2025 8:00:28 AM		
Supervise By	Maresh Dadoda	Supervise On	7/30/2025 3:10:33 PM		
SubDirectory	VL072925	HP Acquire Method	TO15AIR.M	HP Processing Method	VL072325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2645			
Initial Calibration Stds		AP2641,AP2642,AP2643			
CCC		AP2641			
Internal Standard/PEM		AP2645			
ICV/I.BLK		AP2644			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042772.D	29 Jul 2025 07:37	SY/MD	Ok
2	VSTDCCC010	VL042773.D	29 Jul 2025 08:28	SY/MD	Ok,M
3	VL0729ABL01	VL042774.D	29 Jul 2025 09:16	SY/MD	Ok
4	VL0729ABS01	VL042775.D	29 Jul 2025 10:03	SY/MD	Ok,M
5	Q2712-01	VL042776.D	29 Jul 2025 10:50	SY/MD	Dilution
6	Q2712-01DL	VL042777.D	29 Jul 2025 11:26	SY/MD	Ok,M
7	Q2712-02	VL042778.D	29 Jul 2025 12:02	SY/MD	Ok,M
8	Q2712-02DL	VL042779.D	29 Jul 2025 12:37	SY/MD	Not Ok
9	Q2712-03	VL042780.D	29 Jul 2025 13:13	SY/MD	Ok,M
10	Q2712-03DL	VL042781.D	29 Jul 2025 13:49	SY/MD	Not Ok
11	Q2712-04	VL042782.D	29 Jul 2025 14:24	SY/MD	Ok,M
12	Q2712-04DUP	VL042783.D	29 Jul 2025 14:59	SY/MD	Ok,M
13	Q2712-05	VL042784.D	29 Jul 2025 15:35	SY/MD	Ok,M
14	Q2712-06	VL042785.D	29 Jul 2025 16:10	SY/MD	Ok,M
15	Q2712-07	VL042786.D	29 Jul 2025 16:48	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL072325

Review By	Semsettin Yesilyurt	Review On	7/24/2025 9:04:14 AM
Supervise By	Maresh Dadoda	Supervise On	7/24/2025 2:21:30 PM
SubDirectory	VL072325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL072325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2645
Initial Calibration Stds	AP2641,AP2642,AP2643
CCC	AP2641
Internal Standard/PEM	AP2645
ICV/I.BLK	AP2644
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	Sampled	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042746.D	23 Jul 2025 08:00		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042747.D	23 Jul 2025 08:58		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042748.D	23 Jul 2025 09:34		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042749.D	23 Jul 2025 10:08	Comp. #13,79,80,81 are on Linear Regression	SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042750.D	23 Jul 2025 10:42		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042751.D	23 Jul 2025 11:16	Not used	SY/MD	Not Ok
7	VSTDICC0.03	VSTDICC0.03	VL042752.D	23 Jul 2025 11:50		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042753.D	23 Jul 2025 12:26	%D failed for Comp. #80 in 0.5 and 2 ppb	SY/MD	Ok,M
9	VSTDICC0.1	VSTDICC0.1	VL042754.D	23 Jul 2025 13:00	%D failed for Comp. #79 in 0.1 ppb	SY/MD	Ok,M
10	VSTDICV010	ICVVL072325	VL042755.D	23 Jul 2025 14:33		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL072925

Review By	Semsettin Yesilyurt	Review On	7/30/2025 8:00:28 AM
Supervise By	Maresh Dadoda	Supervise On	7/30/2025 3:10:33 PM
SubDirectory	VL072925	HP Acquire Method	TO15AIR.M HP Processing Method VL072325AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2645		
Initial Calibration Stds	AP2641,AP2642,AP2643		
CCC	AP2641		
Internal Standard/PEM	AP2645		
ICV/I.BLK	AP2644		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042772.D	29 Jul 2025 07:37		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042773.D	29 Jul 2025 08:28		SY/MD	Ok,M
3	VL0729ABL01	VL0729ABL01	VL042774.D	29 Jul 2025 09:16		SY/MD	Ok
4	VL0729ABS01	VL0729ABS01	VL042775.D	29 Jul 2025 10:03		SY/MD	Ok,M
5	Q2712-01	SV1	VL042776.D	29 Jul 2025 10:50	Need 40X	SY/MD	Dilution
6	Q2712-01DL	SV1DL	VL042777.D	29 Jul 2025 11:26		SY/MD	Ok,M
7	Q2712-02	SV2	VL042778.D	29 Jul 2025 12:02		SY/MD	Ok,M
8	Q2712-02DL	SV2DL	VL042779.D	29 Jul 2025 12:37	Not Required	SY/MD	Not Ok
9	Q2712-03	SV3	VL042780.D	29 Jul 2025 13:13		SY/MD	Ok,M
10	Q2712-03DL	SV3DL	VL042781.D	29 Jul 2025 13:49	Not Required	SY/MD	Not Ok
11	Q2712-04	IA2	VL042782.D	29 Jul 2025 14:24		SY/MD	Ok,M
12	Q2712-04DUP	IA2DUP	VL042783.D	29 Jul 2025 14:59		SY/MD	Ok,M
13	Q2712-05	IA3	VL042784.D	29 Jul 2025 15:35		SY/MD	Ok,M
14	Q2712-06	OA1	VL042785.D	29 Jul 2025 16:10		SY/MD	Ok,M
15	Q2712-07	IA1	VL042786.D	29 Jul 2025 16:48		SY/MD	Ok,M

M : Manual Integration

Client Contact Information		Bottle Order ID : B2507029		Courier : F. Galdun		1 of 7 COCs										
Client ID : GFEL01		Project ID : 1054444-01		Sampler Name(s) : FRANK GALDUN		Analysis Matrix										
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified												
Address : 58 Nokomis Ave		Phone Number : 646-542-3465														
City : Lake Hiawatha		Fax Number : 973-334-1692														
State : NJ		Analysis Turnaround Time : 7 DAYS		Data Package Type : RESULTS ONLY												
Zip Code : 07034		Standard : 1054444-01 OR		EDD Type : PDF												
Country : USA		Rush (Specify): 7 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
SNI	1/28/05 12:26g	12:26g	12:26g	5	5	70	70	-30	-42	10226	10607	6 L	50	1		1
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																
** Submittal of this COC indicates approval of the analysis based on existing conditions. PERFORM ONLY PCE, TCE, CIS-1,2-DE, 1,1-DEE, 1,1,1-TEA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low Low																
PID Readings: 0.1																
Sampling site (State):																
Quick Connector required : NO																
Canisters Shipped by: SEM																
Samples Relinquished by: FRANK																
Relinquished by:																
Date/Time: 2/24/05 Canisters Received by: OP																
Date/Time: 7/28/05 Received by:																
Date/Time:																
B2507029 - 9																

Client Contact Information		Bottle Order ID : B2507029		Courier : Frank Gaidun		3 of 7 COCs										
Client ID : GFEL01		Project ID : 10 Eldridge St.		Sampler Name(s) : FRANK GAIDUN		Analysis										
Customer Name : GFE LLC		Project Manager : Frank Gaidun		AIR ANALYSIS		Matrix										
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY												
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified												
State : NJ		Site Details: 739 NORTON AVE BROOKLYN, NY														
Zip Code : 07034		Analysis Turnaround Time 10 DAY		Data Package Type : RESULTS ONLY												
Country : USA		Standard : 16 business days		EDD Type : PDF												
		Rush (Specify): 17 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
SV3	10/25/19	7:41	9:41	30	4	70	70	-30	-5.1	10503	10320	50	VL042562.D	1		1
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																
*** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																
Special Instructions/QC Requirements & Comments :																
Suspected Contamination: High Medium Low PID Readings: 0.0																
Sampling site (State):																
Quick Connector required : NO																
Canisters Shipped by: SPM																
Samples Relinquished by: FRANK																
Relinquished by:																
Date/Time: 07/24/23																
Date/Time: 7/28/23																
Date/Time: 1300																
B2507029 - 6																



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

GC/MS Analyst Signature (TO-15)

Client Contact Information		Bottle Order ID : B2507029		Courier : FGaldun		COCs of 1									
Client ID : GFEL01		Project ID : 10 Field St.		Sampler Name(s) : FRANK Galdun		Analysis Matrix									
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified											
Address : 58 Nokomis Ave		Phone Number : 646-542-3465													
City : Lake Hiawatha		Fax Number : 973-334-1692													
State : NJ		Analysis Turnaround Time : 7 Days		Data Package Type : RESULTS ONLY											
Zip Code : 07034		Standard : 10 business days		EDD Type : PDF											
Country : USA		Rush (Specify) : 7 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	Indoor Ambient Air	Soil Gas
FAZ	1/28/25 7:46	7:46	9:46	0.52	0.52	70.0	70.0	-30	-5.1	10511	10275	50	VL042600.D	1	1
GC/MS Analyst Signature (TO-15) Sgt															
*** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCF, vinyl chloride 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: Sgt				Date/Time: 07/24/25				Canisters Received by: af				Date/Time: 7/28/25 1300			
Samples Relinquished by: af				Date/Time: 7/28/25				Received by:				Date/Time:			
Relinquished by:				Date/Time:				Received by:				Date/Time:			



Client Contact Information			Bottle Order ID : B2507029			Courier : F Galdun			6 of 7 COCs		
Client ID : GFEL01			Project ID : 10-01-01-01-01			Sampler Name(s) : Frank Galdun			Analysis Matrix		
Customer Name : GFE LLC			Project Manager : Frank galdun			AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified					
Address : 58 Nokomis Ave			Phone Number : 646-542-3465								
			Fax Number : 973-334-1692								
City : Lake Hiawatha			Site Details: 739 NORLAND AVE BROOKLYN, NY								
State : NJ			Analysis Turnaround Time 7 DAY								
Zip Code : 07034			Standard : 10 Business Days OR			Data Package Type : RESULTS ONLY					
Country :			Rush (Specify): 7 Days			EDD Type : PDF					
Sample Identification			Sample Date(s)			Time Start (24 hr Clock)			Time Stop (24 hr Clock)		
IA3 1/24/25			01/24/25			09:48			09:48		
			Can Vacuum in Field ("Hg) (Start)**			Can Vacuum in Field ("Hg) (Stop)			Can Vacuum in Field ("Hg) (Stop)		
			3.5			3.5			3.5		
			Interior Temp. (F) (Start)			Interior Temp. (F) (Stop)			Interior Temp. (F) (Stop)		
			70			70			70		
			Out going Can Pressure ("Hg)(Lab)			In coming Can Pressure ("Hg)(Lab)			Flow Controller Readout (ml/min)		
			-30			-4.7			50		
			Flow Reg. ID			Can ID			Can Cert ID		
			10525			10445			VL042562.D		
			Temperature (Fahrenheit)								
			Ambient			Maximum			Minimum		
			Start								
			Stop								
			Pressure (Inches of Hg)								
			Ambient			Maximum			Minimum		
			Start								
			Stop								
			Special Instructions/QC Requirements & Comments :								
			Suspected Contamination:			High Medium Low			PID Readings: 0.0		
			Sampling site (State):								
			Quick Connector required : NO								
			Canisters Shipped by: [Signature]			Canisters Received by: [Signature]			Date/Time: 2/28/25 1300		
			Samples Relinquished by: [Signature]			Received by: [Signature]			Date/Time: [Signature]		
			Relinquished by:			Received by:			Date/Time: [Signature]		
									B2507029 - 8		

Client Contact Information		Bottle Order ID : B2507029		Courier : Frank Galdun		7 of 7 COCs									
Client ID : GFELO1		Project ID : 10-Elbridge St.		Sampler Name(s) FRANK GALDUN		Analysis Matrix									
Customer Name : GFE LLC		Project Manager : Frank Galdun		AIR ANALYSIS											
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY											
City : Lake Hiawatha		Fax Number : 973-334-1692		Individual Certified											
State : NJ		Site Details: 739 NOSTRAND AVE BROOKLYN, NY													
Zip Code : 07034		Analysis Turnaround Time 7-10 days		Data Package Type : RESULTS ONLY											
Country : USA		Standard : 16 hours OR 7 Days		EDD Type :											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas
DA1	1/25/2012	12:00	12:30	29.5	29.5	73	73	-30	-4.3	10579	10158	6 L	50	VL042562.D	1
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>															
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DEE, 1,1-DEE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium Low PID Readings: 0.0															
Sampling site (State):															
Quick Connector required : No															
Canisters Shipped by: SAGE		Date/Time: 1/24/12		Canisters Received by: al		Date/Time: 7/28/25 1300		B2507029 - 1							
Samples Relinquished by: Frank Galdun		Date/Time: 1/25/12		Received by:		Date/Time:									
Relinquished by:		Date/Time:		Received by:		Date/Time:									

Client Contact Information		Bottle Order ID : B2507029		Courier : Frank Galdun		4 of 1 COCs																
Client ID : GFEL01		Project ID : 10-15-12-13		Sampler Name(s) : FRANK GALTUN		Analysis Matrix																
Customer Name : GFE LLC		Project Manager : Frank Galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																		
Address : 58 Nokomis Ave		Phone Number : 646-542-3465																				
City : Lake Hiawatha		Fax Number : 973-334-1692																				
State : NJ		Analysis Turnaround Time 7-10 DAY		Data Package Type : RESULTS ONLY																		
Zip Code : 07034		Standard : 20 BUSINESS DAYS		EDD Type : PDF																		
Country : USA		Rush (Specify) : 7-10 DAY																				
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										
IA1	7/28/12 7:45	8:45	9:45	30	4.5	70	70	-30	-3.5	10613	50	VL042562.D	1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>														Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																				
Start																						
Stop																						
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>														Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																				
Start																						
Stop																						
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																						
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, 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 : N/A																						
Canisters Shipped by: SAFARI																						
Samples Relinquished by: SAFARI																						
Relinquished by:																						
Date/Time: 7/28/12 1300																						
Date/Time:																						
Date/Time:																						
B2507029 - 5																						

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
NASS:		Title: <u>Sample Custodian</u>	
Field Sample Seal No. <u>Q2712</u>		Date Broken: <u>7/28/2025</u> Military Time Seal Broken: <u>13:00:00</u>	
Case No.: <u>50 Jefferson Blvd, Staten I</u>		Analytical Parameter/Fraction: <u>OCMS Group2</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2712-01	SV1		
Q2712-02	SV2		
Q2712-03	SV3		
Q2712-04	IA2		
Q2712-05	IA3		
Q2712-06	OA1		
Q2712-07	IA1		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
7/28/25	1415	Signature		Signature		
		Printed Name	Cassanova	Printed Name	San Seth	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID: _____

[illegible]

Process Report

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

Order ID : Q2712

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
07/28/2025	B2507029	Q2712-05	-4.7	10445	6 L	10525		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/28/2025	B2507029	Q2712-01	-4.7	10607	6 L	10226		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/28/2025	B2507029	Q2712-03	-5.1	10320	6 L	10503		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/28/2025	B2507029	Q2712-07	-3.5	10300	6 L	10613		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/28/2025	B2507029	Q2712-02	-4.7	10282	6 L	10649		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D
07/28/2025	B2507029	Q2712-04	-5.1	10275	6 L	10511		C2505004	VL042600.D Seq :vl052925 TUNE : VL042578.D ICAL : VL042584.D CCAL : VL042579.D MB : VL042588.D

Process Report

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

Order ID : Q2712

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
07/28/2025	B2507029	Q2712-06	-4.3	10158	6 L	10579		C2505003	VL042562.D Seq :VL052125 TUNE : VL042555.D ICAL : VL042551.D CCAL : VL042556.D MB : VL042557.D

7090

7.4

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

CHEMTECH

Client Sample ID #: SV1

Client Name: GFE

Project Name: NOSTRAND

Date: 7/28 Time: TO-15

Analysis: TO-15

Comments: TO-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
Sample: Q2712-01
Cust #: SV1

89-8922

62507029

7090

7.4

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

CHEMTECH

Client Sample ID #: SV2

Client Name: GFE

Project Name: NOSTRAND

Date: 7/28 Time: TO-15

Analysis: TO-15

Comments: TO-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____

Storage Location: VOA Lab
Sample: Q2712-02
Cust #: SV2

89-8922

62507029

15

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

CHEMTECH

Client Sample ID #: SV3

Client Name: GFE

Project Name: NOSTRAND

Date: 7/28 Time: TO-15

Analysis: TO-15

Comments: TO-15

CHEMTECH'S SAMPLE ID: _____

Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
Sample: Q2712-03
Cust #: SV3

89-8922

62507029

10275 5.1

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

Client Sample ID #: Q2712-05
 Client Name: GFE
 Project Name: NOSTRAND
 Date: 7/28 Time: 10:15
 Analysis: TO-15
 Comments: IA2

CHEMTECH'S SAMPLE ID: _____
 Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
 Sample: Q2712-04
 Cust #: IA2

B2507029 8922

10445 4.2

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

Client Sample ID #: Q2712-05
 Client Name: GFE
 Project Name: NOSTRAND
 Date: 7/28 Time: 10:15
 Analysis: TO-15
 Comments: IA3

CHEMTECH'S SAMPLE ID: _____
 Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
 Sample: Q2712-05
 Cust #: IA3

B2507029

4.1 85501

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

Client Sample ID #: OA1
 Client Name: GFE
 Project Name: NOSTRAND
 Date: 7/28 Time: 10:15
 Analysis: TO-15
 Comments: IA2

CHEMTECH'S SAMPLE ID: _____
 Date Received: _____ Expiration Date: _____

Storage Location: VOA Lab
 Sample: Q2712-06
 Cust #: OA1

B2507029

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

CHEMTECH

Client Sample ID #: IA1
Client Name: 4E
Project Name: ADSTAND
Date: 7/28
Analysis: 10-15
Comments: _____
Date Received: _____

Storage Location: VOA Lab
Sample: Q2712-07
Cust #: IA1

of Disposal: _____

B-2507029

1030