



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2411043				Courier : FGALDUN				1 of 1 COCs																	
Client ID : GFEL01				Project ID : Price List 2024 - TO-15				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: 262 TRAFFE PL. BROOKLYN, NY																									
Analysis Turnaround Time 5 DAY				Standard : 10-business days OR				Data Package Type : RESULTS ONLY																					
Rush (Specify): 5 Days				EDD Type : PDF																									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SV1	12/5/24	8:26	10:26	OVER 30	55	70	70	-30	-5.5	10528	10443	6 L	50	VL041544.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> GC/MS Analyst Signature (TO-15)											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE COMPOUNDS ON ATTACHED LIST Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop											
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 0.1 Sampling site (State):																													
Quick Connector required : N/O																													
Canisters Shipped by: SA				Date/Time: 12/5/24				Canisters Received by: SA				Date/Time: 12-5-24 12:10				B2411043 - 4													
Samples Relinquished by: SA				Date/Time: 12/5/24				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2411043				Courier : F GALDUN				<u>2</u> of <u>686</u> COCs																	
Client ID : GFEL01				Project ID : Price List 2024 - TO-15				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: 262 TAFFEE PL. BROOKLYN, NY																									
Analysis Turnaround Time 5 DAY				Standard : 10-business-days OR				Data Package Type : RESULTS ONLY																					
Rush (Specify): 5 Days				EDD Type : PDF																									
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas												
IAI	12/5/24	8:27	10:27	OVER 30	5	70	70	-30	-5.9	10616	10605	6 L	50	VL041544.D	1														
Temperature (Fahrenheit) <table border="1"> <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) Sut							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1"> <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 THOSE COMPOUNDS ON ATTACHED LIST Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 80																													
Sampling site (State):																													
Quick Connector required : N/D																													
Canisters Shipped by: SCM				Date/Time: 12/5/24				Canisters Received by: SCM				Date/Time: 12-5-24 1210				B2411043 - 7													
Samples Relinquished by: SCM				Date/Time: 12/5/24				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2411043				Courier : <u>FGALDUN</u>				3A or 6A COCs			
Client ID : GFEL01				Project ID : Price List 2024 - TO-15				Sampler Name(s) : <u>FRANK GALDUN</u>				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: <u>262 TAFFEE PL, BROOKLYN, NY</u>											
				Analysis Turnaround Time <u>5 DAY</u>				Data Package Type : <u>RESULTS ONLY</u>							
				Standard : 10 business days OR				EDD Type : <u>PDF</u>							
Country :				Rush (Specify): <u>5</u> Days											

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
<u>SV3</u>	<u>12/5/24</u>	<u>8:47</u>	<u>10:47</u>	<u>30</u>	<u>65</u>	<u>65</u>	<u>-30</u>	<u>-5.9</u>	<u>10613</u>	<u>10060</u>	<u>6 L</u>	<u>50</u>	<u>VL041544.D</u>	<u>1</u>			

Temperature (Fahrenheit)			
	Ambient	Maximum	Minimum
Start			
Stop			

Pressure (Inches of Hg)			
	Ambient	Maximum	Minimum
Start			
Stop			

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

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

REPORT ONLY THOSE COMPOUNDS ON ATTACHED LIST.

Please follow the instructions on the back of this COC.

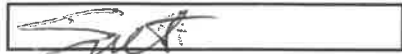
Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.1

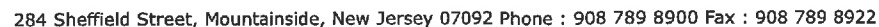
Sampling site (State):

Quick Connector required : <u>No</u>			
Canisters Shipped by: <u>Sam</u>	Date/Time: <u>12/05/24</u>	Canisters Received by: <u>[Signature]</u>	Date/Time: <u>12-5-24 1210</u>
Samples Relinquished by: <u>[Signature]</u>	Date/Time: <u>12/5/24</u>	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2411043 - 1

Client Contact Information				Bottle Order ID : B2411043				Courier : F Galdun				4 of 6 COCs			
Client ID : GFEL01				Project ID : Price List 2024 - TO-15				Sampler Name(s) : FRANK GALDUN				Analysis			
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				Matrix			
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 262 TAAFFE PL. BROOKLYN, NY											
Analysis Turnaround Time 5 DAY				Standard : 10-business days OR				Data Package Type : RESULTS ONLY				Indoor Ambient Air Soil Gas			
Rush (Specify): 5 Days				EDD Type : PDF											
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	
IAB3	12/5/24	8:48	10:48	30	0	65	65	-30	-7.5	10185	10445	6 L	50	VL041543.D	1
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 					
		Ambient	Maximum	Minimum											
Start															
Stop															
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. Please follow the instructions on the back of this COC.					
		Ambient	Maximum	Minimum											
Start															
Stop															
Special Instructions/QC Requirements & Comments :															
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>															
Sampling site (State):															
Quick Connector required : <u>NO</u>															
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>12/5/24</u>				Canisters Received by: <u>da</u>				Date/Time: <u>12-5-24 120</u>			
Samples Relinquished by:				Date/Time:				Received by:				Date/Time:			
Relinquished by:				Date/Time:				Received by:				Date/Time:			
B2411043 - 5															

Client Contact Information				Bottle Order ID : B2411043				Courier : FGALDUN				45 of 608 COCs																	
Client ID : GFEL01				Project ID : Price List 2024 - TO-15				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 262 TAFFEE PL BROOKLYN, NY																									
City : Lake Hiawatha				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																					
State : NJ				Standard : 10-business days OR																									
Zip Code : 07034				Rush (Specify): 5 Days				EDD Type : PDF																					
Country :																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SV4	12/5/24	8:30	10:50	30	5.5	70	70	-30	-6.7	10226	10609	6 L	50	VL041543.D	1		1												
Temperature (Fahrenheit) <table border="1"> <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) Suet							
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	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 0.0																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sam				Date/Time: 12/5/24				Canisters Received by: Sam				Date/Time: 12-5-24 120				B2411043 - 8													
Samples Relinquished by: Sam				Date/Time:				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	



PS150

Client Contact Information				Bottle Order ID : B2411043				Courier : F Galdun				6 of 6 COCs									
Client ID : GFEL01				Project ID : Price List 2024 - TO-15				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: 262TAFFLE PL BROOKLYN, NY																	
				Analysis Turnaround Time 5 DAY				Data Package Type : Results Only													
				Standard : 10 business days OR				EDD Type : PDF													
				Rush (Specify): 5 Days																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	(TO-15)					Indoor/Ambient Air	Soil Gas
IAH	12/5/24	8:51	10:51	28.5	0	70	70	-30	-3.9	10503	10597	6 L	50	VL041543.D	1					1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) 											
		Ambient	Maximum	Minimum																	
Start																					
Stop																					
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions.											
		Ambient	Maximum	Minimum						Please follow the instructions on the back of this COC.											
Start																					
Stop																					
Special Instructions/QC Requirements & Comments :																					
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																					
Sampling site (State):																					
Quick Connector required : <u>NO</u>																					
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>12/5/24</u>				Canisters Received by: <u>Frank</u>				Date/Time: <u>12-5-24 1240</u>				B2411043 - 6					
Samples Relinquished by: <u>Frank</u>				Date/Time: <u>12/5/24</u>				Received by:				Date/Time:									
Relinquished by:				Date/Time:				Received by:				Date/Time:									

REQUESTED ANALYTE LIST:

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

REQUESTED ANALYTE LIST:

PCE

TCE

cis-1,2-DCE

1,1,1-TCA

1,2-DCE

1,1-DCE

Vinyl chloride

Benzene

Toluene

Ethylbenzene

Naphthalene

Cyclohexane

2,2,4-Trimethylpentane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

o-xylene

m,p-xylene

Heptane

Hexane

REQUESTED ANALYTE LIST:

PCE

TCE

cis-1,2-DCE

1,1,1-TCA

1,2-DCE

1,1-DCE

Vinyl chloride

Benzene

Toluene

Ethylbenzene

Naphthalene

Cyclohexane

2,2,4-Trimethylpentane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

o-xylene

m,p-xylene

Heptane

Hexane

REQUESTED ANALYTE LIST:

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

REQUESTED ANALYTE LIST:

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

REQUESTED ANALYTE LIST:

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



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

Laboratory Certification

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

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>P5150</u>	Date Broken: <u>12/5/2024</u>		Military Time Seal Broken: <u>12:10:00</u>
Case No.: <u>450 Castle Hill Ave Bronx</u>	Analytical Parameter/Fraction/KO/CMS Group2		

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
P5150-01	SV1		
P5150-02	IA1		
P5150-03	SV3		
P5150-04	IA3		
P5150-05	SV4		
P5150-06	IA4		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
<u>12-6-24</u>	<u>1230</u>	Signature 	Signature 	
		Printed Name <u>Custodian Pina</u>	Printed Name <u>Pedro Sanchez</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	
		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:	P5150	OrderDate:	12/6/2024 10:28:00 AM
Client:	GFE LLC	Project:	262 Taaffe PL, Brooklyn NY
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5150-01	SV1	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-01DL	SV1DL	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-02	IA1	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-03	SV3	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-03DL	SV3DL	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-04	IA3	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-04DL	IA3DL	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-05	SV4	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-06	IA4	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24
P5150-06DU P	IA4DUP	Air	VOCMS Group2	TO-15	12/05/24		12/12/24	12/05/24

Hit Summary Sheet SW-846

SDG No.: P5150

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
P5150-01	SV1	Air	Vinyl Chloride	0.82		0.15	0.31	ug/m3
P5150-01	SV1	Air	Heptane	9.02		1.80	8.20	ug/m3
P5150-01	SV1	Air	cis-1,2-Dichloroethene	1430	E	1.43	7.93	ug/m3
P5150-01	SV1	Air	1,1,1-Trichloroethane	3.93		0.22	0.65	ug/m3
P5150-01	SV1	Air	Benzene	4.79	J	1.12	6.39	ug/m3
P5150-01	SV1	Air	Trichloroethene	163		0.38	0.64	ug/m3
P5150-01	SV1	Air	Toluene	14.7		1.66	7.54	ug/m3
P5150-01	SV1	Air	Tetrachloroethene	1970	E	0.41	0.81	ug/m3
P5150-01	SV1	Air	m/p-Xylene	5.65	J	3.65	17.4	ug/m3
P5150-01	SV1	Air	o-Xylene	2.78	J	2.08	8.69	ug/m3
P5150-01	SV1	Air	1,2,4-Trimethylbenzene	4.72	J	1.52	9.83	ug/m3
P5150-01	SV1	Air	Hexane	40.9		1.55	7.05	ug/m3
Total Voc :				3640				
Total Concentration:				3640				
Client ID:	SV1DL							
P5150-01DL	SV1DL	Air	cis-1,2-Dichloroethene	1980	D	14.3	79.3	ug/m3
P5150-01DL	SV1DL	Air	Trichloroethene	174	D	3.65	6.45	ug/m3
P5150-01DL	SV1DL	Air	Toluene	16.6	JD	16.6	75.4	ug/m3
P5150-01DL	SV1DL	Air	Tetrachloroethene	2370	D	4.07	8.14	ug/m3
P5150-01DL	SV1DL	Air	Hexane	45.1	JD	15.5	70.5	ug/m3
Total Voc :				4590				
Total Concentration:				4590				
Client ID:	IA1							
P5150-02	IA1	Air	Heptane	0.98	J	0.45	2.05	ug/m3
P5150-02	IA1	Air	2,2,4-Trimethylpentane	0.51	J	0.47	2.34	ug/m3
P5150-02	IA1	Air	Benzene	0.93	J	0.29	1.60	ug/m3
P5150-02	IA1	Air	Toluene	1.88		0.41	1.88	ug/m3
P5150-02	IA1	Air	Tetrachloroethene	0.41		0.14	0.20	ug/m3
P5150-02	IA1	Air	m/p-Xylene	1.26	J	0.91	4.34	ug/m3
P5150-02	IA1	Air	o-Xylene	0.52	J	0.52	2.17	ug/m3
P5150-02	IA1	Air	1,2,4-Trimethylbenzene	0.74	J	0.39	2.46	ug/m3
P5150-02	IA1	Air	Hexane	2.78		0.39	1.76	ug/m3
Total Voc :				10.0				
Total Concentration:				10.0				
Client ID:	SV3							
P5150-03	SV3	Air	Heptane	75.8		1.80	8.20	ug/m3
P5150-03	SV3	Air	Cyclohexane	35.5		3.03	6.88	ug/m3

Hit Summary Sheet SW-846

SDG No.: P5150

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5150-03	SV3	Air	cis-1,2-Dichloroethene	54.3		1.43	7.93	ug/m3
P5150-03	SV3	Air	Benzene	10.2		1.12	6.39	ug/m3
P5150-03	SV3	Air	Trichloroethene	38.7		0.38	0.64	ug/m3
P5150-03	SV3	Air	Toluene	64.8		1.66	7.54	ug/m3
P5150-03	SV3	Air	Tetrachloroethene	882	E	0.41	0.81	ug/m3
P5150-03	SV3	Air	Ethyl Benzene	30.4		2.08	8.69	ug/m3
P5150-03	SV3	Air	m/p-Xylene	67.3		3.65	17.4	ug/m3
P5150-03	SV3	Air	o-Xylene	30.4		2.08	8.69	ug/m3
P5150-03	SV3	Air	1,3,5-Trimethylbenzene	21.6		2.16	9.83	ug/m3
P5150-03	SV3	Air	1,2,4-Trimethylbenzene	36.4		1.52	9.83	ug/m3
P5150-03	SV3	Air	Hexane	102		1.55	7.05	ug/m3
Total Voc :				1450				
Total Concentration:				1450				
Client ID:	SV3DL							
P5150-03DL	SV3DL	Air	Heptane	73.8	D	9.02	41.0	ug/m3
P5150-03DL	SV3DL	Air	Cyclohexane	33.7	JD	15.2	34.4	ug/m3
P5150-03DL	SV3DL	Air	cis-1,2-Dichloroethene	53.9	D	7.14	39.6	ug/m3
P5150-03DL	SV3DL	Air	Benzene	10.9	JD	5.43	31.9	ug/m3
P5150-03DL	SV3DL	Air	Trichloroethene	38.7	D	1.83	3.22	ug/m3
P5150-03DL	SV3DL	Air	Toluene	62.6	D	8.29	37.7	ug/m3
P5150-03DL	SV3DL	Air	Tetrachloroethene	882	D	2.03	4.07	ug/m3
P5150-03DL	SV3DL	Air	Ethyl Benzene	29.5	JD	10.4	43.4	ug/m3
P5150-03DL	SV3DL	Air	m/p-Xylene	66.0	JD	18.2	86.9	ug/m3
P5150-03DL	SV3DL	Air	o-Xylene	30.4	JD	10.4	43.4	ug/m3
P5150-03DL	SV3DL	Air	1,3,5-Trimethylbenzene	20.6	JD	10.8	49.2	ug/m3
P5150-03DL	SV3DL	Air	1,2,4-Trimethylbenzene	34.4	JD	7.87	49.2	ug/m3
P5150-03DL	SV3DL	Air	Hexane	102	D	7.75	35.2	ug/m3
Total Voc :				1440				
Total Concentration:				1440				
Client ID:	IA3							
P5150-04	IA3	Air	Heptane	94.7	E	0.45	2.05	ug/m3
P5150-04	IA3	Air	Cyclohexane	53.7	E	0.76	1.72	ug/m3
P5150-04	IA3	Air	Benzene	21.7		0.29	1.60	ug/m3
P5150-04	IA3	Air	Toluene	116	E	0.41	1.88	ug/m3
P5150-04	IA3	Air	Tetrachloroethene	0.81		0.14	0.20	ug/m3
P5150-04	IA3	Air	Ethyl Benzene	52.1		0.52	2.17	ug/m3
P5150-04	IA3	Air	m/p-Xylene	141	E	0.91	4.34	ug/m3

Hit Summary Sheet
SW-846

SDG No.: P5150

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5150-04	IA3	Air	o-Xylene	58.2		0.52	2.17	ug/m3
P5150-04	IA3	Air	1,3,5-Trimethylbenzene	23.6		0.54	2.46	ug/m3
P5150-04	IA3	Air	1,2,4-Trimethylbenzene	67.8		0.39	2.46	ug/m3
P5150-04	IA3	Air	Naphthalene	3.25		0.42	0.52	ug/m3
P5150-04	IA3	Air	Hexane	37.0		0.39	1.76	ug/m3
Total Voc :				669				
Total Concentration:				669				
Client ID:	IA3DL							
P5150-04DL	IA3DL	Air	Heptane	95.5	D	1.80	8.20	ug/m3
P5150-04DL	IA3DL	Air	Cyclohexane	53.0	D	3.03	6.88	ug/m3
P5150-04DL	IA3DL	Air	Benzene	22.4	D	1.12	6.39	ug/m3
P5150-04DL	IA3DL	Air	Toluene	120	D	1.66	7.54	ug/m3
P5150-04DL	IA3DL	Air	Tetrachloroethene	0.81	D	0.41	0.81	ug/m3
P5150-04DL	IA3DL	Air	Ethyl Benzene	53.4	D	2.08	8.69	ug/m3
P5150-04DL	IA3DL	Air	m/p-Xylene	150	D	3.65	17.4	ug/m3
P5150-04DL	IA3DL	Air	o-Xylene	60.4	D	2.08	8.69	ug/m3
P5150-04DL	IA3DL	Air	1,3,5-Trimethylbenzene	23.6	D	2.16	9.83	ug/m3
P5150-04DL	IA3DL	Air	1,2,4-Trimethylbenzene	68.3	D	1.52	9.83	ug/m3
P5150-04DL	IA3DL	Air	Hexane	37.7	D	1.55	7.05	ug/m3
Total Voc :				685				
Total Concentration:				685				
Client ID:	SV4							
P5150-05	SV4	Air	Trichloroethene	16.7		0.38	0.64	ug/m3
P5150-05	SV4	Air	Toluene	2.26	J	1.66	7.54	ug/m3
P5150-05	SV4	Air	Tetrachloroethene	57.6		0.41	0.81	ug/m3
P5150-05	SV4	Air	Hexane	7.75		1.55	7.05	ug/m3
Total Voc :				84.3				
Total Concentration:				84.3				
Client ID:	IA4							
P5150-06	IA4	Air	Heptane	4.51		0.45	2.05	ug/m3
P5150-06	IA4	Air	Cyclohexane	2.48		0.76	1.72	ug/m3
P5150-06	IA4	Air	2,2,4-Trimethylpentane	0.75	J	0.47	2.34	ug/m3
P5150-06	IA4	Air	Benzene	1.73		0.29	1.60	ug/m3
P5150-06	IA4	Air	Trichloroethene	0.64		0.11	0.16	ug/m3
P5150-06	IA4	Air	Toluene	6.78		0.41	1.88	ug/m3
P5150-06	IA4	Air	Tetrachloroethene	1.42		0.14	0.20	ug/m3
P5150-06	IA4	Air	Ethyl Benzene	2.43		0.52	2.17	ug/m3
P5150-06	IA4	Air	m/p-Xylene	6.95		0.91	4.34	ug/m3

Hit Summary Sheet
SW-846

SDG No.: P5150

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5150-06	IA4	Air	o-Xylene	2.82		0.52	2.17	ug/m3
P5150-06	IA4	Air	1,3,5-Trimethylbenzene	1.13	J	0.54	2.46	ug/m3
P5150-06	IA4	Air	1,2,4-Trimethylbenzene	3.54		0.39	2.46	ug/m3
P5150-06	IA4	Air	Hexane	10.9		0.39	1.76	ug/m3
Total Voc :				46.1				
Total Concentration:				46.1				



QC SUMMARY

Surrogate Summary

SDG No.: **P5150**

Client: **GFE LLC**

Analytical Method: **SWTO-15**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P5150-01	SV1	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
P5150-01DL	SV1DL	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
P5150-02	IA1	1-Bromo-4-Fluorobenzene	10	9.92	99	65	135
P5150-03	SV3	1-Bromo-4-Fluorobenzene	10	10.3	104	65	135
P5150-03DL	SV3DL	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
P5150-04	IA3	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
P5150-04DL	IA3DL	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135
P5150-05	SV4	1-Bromo-4-Fluorobenzene	10	10.1	101	65	135
P5150-06	IA4	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
P5150-06DUP	IA4DUP	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
VL1211ABL01	VL1211ABL01	1-Bromo-4-Fluorobenzene	10	9.96	100	65	135
VL1211ABS02	VL1211ABS02	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5150

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL041736.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL1211ABS02	Vinyl Chloride	10	12.3	ppbv	123			70	130	
	Heptane	10	9.30	ppbv	93			70	130	
	1,1-Dichloroethene	10	11.5	ppbv	115			70	130	
	Cyclohexane	10	9.20	ppbv	92			70	130	
	cis-1,2-Dichloroethene	10	9.20	ppbv	92			70	130	
	1,1,1-Trichloroethane	10	9.30	ppbv	93			70	130	
	2,2,4-Trimethylpentane	10	9.40	ppbv	94			70	130	
	Benzene	10	9.40	ppbv	94			70	130	
	1,2-Dichloroethane	10	9.60	ppbv	96			70	130	
	Trichloroethene	10	13.0	ppbv	130			70	130	
	Toluene	10	9.20	ppbv	92			70	130	
	Tetrachloroethene	10	8.90	ppbv	89			70	130	
	Ethyl Benzene	10	9.30	ppbv	93			70	130	
	m/p-Xylene	20	18.5	ppbv	93			70	130	
	o-Xylene	10	9.40	ppbv	94			70	130	
	1,3,5-Trimethylbenzene	10	9.60	ppbv	96			70	130	
	1,2,4-Trimethylbenzene	10	9.70	ppbv	97			70	130	
	Naphthalene	10	11.1	ppbv	111			70	130	
	Hexane	10	9.20	ppbv	92			70	130	

Duplicate Sample Summary

Lab Sample Id :	P5150-06DUP	P5150-06
Client Id :	IA4DUP	IA4
DF :	1	1
Datafile :	VL041744.D	VL041740.D
Anal Date & Time :	12/12/2024 11:04	12/12/2024 08:59

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	0.68	0.72	5.7
1,2-Dichloroethane	0	0	0
1,3,5-Trimethylbenzene	0.22	0.23	4.4
2,2,4-Trimethylpentane	0.16	0.16	0
Benzene	0.52	0.54	3.8
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0.69	0.72	4.3
Ethyl Benzene	0.54	0.56	3.6
Heptane	1.1	1.1	0
Hexane	3.1	3.1	0
m/p-Xylene	1.5	1.6	6.5
Naphthalene	0	0	0
o-Xylene	0.61	0.65	6.3
Tetrachloroethene	0.22	0.21	4.7
Toluene	1.7	1.8	5.7
Trichloroethene	0.11	0.12	8.7
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL1211ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: P5150

SAS No.: P5150 SDG NO.: P5150

Lab File ID: VL041728.D

Lab Sample ID: VL1211ABL01

Date Analyzed: 12/11/2024

Time Analyzed: 19:28

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
VL1211ABS02	VL1211ABS02	VL041736.D	12/11/2024
IA1	P5150-02	VL041738.D	12/12/2024
IA3	P5150-04	VL041739.D	12/12/2024
IA4	P5150-06	VL041740.D	12/12/2024
SV1	P5150-01	VL041741.D	12/12/2024
SV3	P5150-03	VL041742.D	12/12/2024
SV4	P5150-05	VL041743.D	12/12/2024
IA4DUP	P5150-06DUP	VL041744.D	12/12/2024
IA3DL	P5150-04DL	VL041745.D	12/12/2024
SV1DL	P5150-01DL	VL041746.D	12/12/2024
SV3DL	P5150-03DL	VL041747.D	12/12/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: P5150 SAS No.: P5150 SDG NO.: P5150
Lab File ID: VL041718.D BFB Injection Date: 12/11/2024
Instrument ID: MSVOA_L BFB Injection Time: 13:38
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	13.8
75	30.0 - 66.0% of mass 95	42.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.4 (0.4) 1
174	50.0 - 120.0% of mass 95	94.9
175	4.0 - 9.0% of mass 174	6.9 (7.2) 1
176	93.0 - 101.0% of mass 174	92.1 (97) 1
177	5.0 - 9.0% of mass 176	6.4 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041719.D	12/11/2024	14:10
VSTDICCC002	VSTDICCC002	VL041720.D	12/11/2024	14:43
VSTDICCC001	VSTDICCC001	VL041721.D	12/11/2024	15:14
VSTDICCC0.5	VSTDICCC0.5	VL041722.D	12/11/2024	15:46
VSTDICCC0.1	VSTDICCC0.1	VL041723.D	12/11/2024	16:17
VSTDICCC0.03	VSTDICCC0.03	VL041724.D	12/11/2024	16:48
VSTDICCC015	VSTDICCC015	VL041725.D	12/11/2024	17:21
VL1211ABL01	VL1211ABL01	VL041728.D	12/11/2024	19:28
VL1211ABS02	VL1211ABS02	VL041736.D	12/11/2024	23:41
IA1	P5150-02	VL041738.D	12/12/2024	07:52
IA3	P5150-04	VL041739.D	12/12/2024	08:26
IA4	P5150-06	VL041740.D	12/12/2024	08:59
SV1	P5150-01	VL041741.D	12/12/2024	09:30
SV3	P5150-03	VL041742.D	12/12/2024	10:01
SV4	P5150-05	VL041743.D	12/12/2024	10:32
IA4DUP	P5150-06DUP	VL041744.D	12/12/2024	11:04
IA3DL	P5150-04DL	VL041745.D	12/12/2024	11:36
SV1DL	P5150-01DL	VL041746.D	12/12/2024	12:06

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: P5150 SAS No.: P5150 SDG NO.: P5150
Lab File ID: VL041718.D BFB Injection Date: 12/11/2024
Instrument ID: MSVOA_L BFB Injection Time: 13:38
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	13.8
75	30.0 - 66.0% of mass 95	42.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.4 (0.4) 1
174	50.0 - 120.0% of mass 95	94.9
175	4.0 - 9.0% of mass 174	6.9 (7.2) 1
176	93.0 - 101.0% of mass 174	92.1 (97) 1
177	5.0 - 9.0% of mass 176	6.4 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SV3DL	P5150-03DL	VL041747.D	12/12/2024	12:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: P5150 SAS No.: P5150 SDG NO.: P5150
Lab File ID: VL041719.D Date Analyzed: 12/11/2024
Instrument ID: MSVOA_L Time Analyzed: 14:10
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	291384	2.79	1427450	3.97	1277950	8.90
UPPER LIMIT	407938	3.12	1998430	4.30	1789130	9.23
LOWER LIMIT	174830	2.46	856470	3.64	766770	8.57
EPA SAMPLE NO.						
VL1211ABL01	272196	2.80	1359830	3.97	1203530	8.90
VL1211ABS02	261097	2.79	1256820	3.96	1119480	8.89
SV1	248666	2.77	1174840	3.94	1038890	8.87
SV1DL	239706	2.77	1117190	3.94	972026	8.87
IA1	246902	2.78	1201870	3.94	1066560	8.87
SV3	241459	2.77	1158890	3.94	1050340	8.86
SV3DL	235470	2.77	1097570	3.93	968906	8.86
IA3	249132	2.78	1203290	3.94	1109270	8.87
IA3DL	238287	2.78	1137630	3.94	1005470	8.87
SV4	249625	2.77	1199950	3.94	1042030	8.86
IA4	252280	2.77	1219820	3.94	1070760	8.87
IA4DUP	240929	2.77	1155770	3.94	1010390	8.87

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

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

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	SV1	SDG No.:	P5150
Lab Sample ID:	P5150-01	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
VL041741.D	4		12/12/24 09:30	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.32	0.82		0.15	0.31	ug/m3
142-82-5	Heptane	2.20	9.02		1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	360	1430	E	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.72	3.93		0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	1.50	4.79	J	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	30.3	163		0.38	0.64	ug/m3
108-88-3	Toluene	3.90	14.7		1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	290	1970	E	0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	1.30	5.65	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.64	2.78	J	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.96	4.72	J	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	11.6	40.9		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	249000			2.774		
540-36-3	1,4-Difluorobenzene	1170000			3.939		
3114-55-4	Chlorobenzene-d5	1040000			8.869		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041741.D
 Acq On : 12 Dec 2024 09:30
 Operator : SY/MD
 Sample : P5150-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Dec 12 13:17:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	248666	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.939	114	1174841	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	1038894m	10.000	ppbv	-0.03

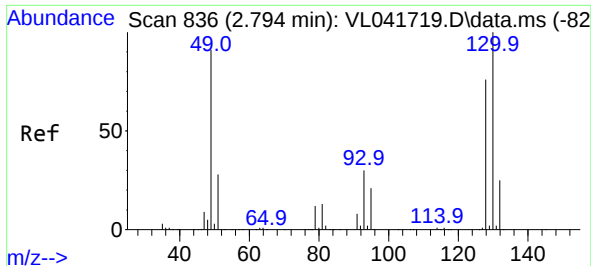
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	691149	10.120	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	5385	0.123	ppbv	94
5) Vinyl Chloride	1.573	62	1105	0.078	ppbv #	88
9) Propene	1.476	41	19632	1.360	ppbv	93
10) Heptane	4.959	43	21511	0.539	ppbv	95
13) Ethanol	1.716	45	4138	3.466	ppbv	91
15) Acetone	1.829	43	112952	3.934	ppbv #	67
17) tert-Butyl alcohol	2.033	59	9693	0.233	ppbv #	84
19) Isopropyl Alcohol	1.881	45	8990	0.330	ppbv #	1
20) Methylene Chloride	2.052	84	5770	0.332	ppbv	96
26) Hexane	2.816	57	111986	2.894	ppbv #	43
27) Carbon Disulfide	2.143	76	4855	0.122	ppbv #	46
29) Chloroform	2.836	83	424960	7.173	ppbv	98
30) Cyclohexane	3.839	84	7471	0.172	ppbv #	83
31) cis-1,2-Dichloroethene	2.709	61	3231107m	90.130	ppbv	
32) 1,1,1-Trichloroethane	3.357	97	10208	0.175	ppbv	96
34) 2-Butanone	2.547	43	134108	3.260	ppbv	100
35) Carbon Tetrachloride	3.748	117	1914	0.035	ppbv	86
36) Benzene	3.641	78	34844	0.377	ppbv	97
38) Trichloroethene	4.528	130	363103	7.580	ppbv	98
41) Tetrahydrofuran	3.056	42	3518	0.142	ppbv #	81
52) Tetrachloroethene	8.215	164	3566631	72.876	ppbv	95
53) Toluene	6.910	91	110875	0.977	ppbv	98
58) Ethyl Benzene	9.344	91	13407	0.096	ppbv	94
59) m/p-Xylene	9.519	91	35278	0.331	ppbv	97
60) o-Xylene	9.953	91	16663	0.158	ppbv	98
73) 1,3,5-Trimethylbenzene	11.193	105	10499	0.095	ppbv #	82
74) 1,2,4-Trimethylbenzene	11.529	105	28374	0.237	ppbv #	68

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

Quant Time: Dec 12 13:17:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

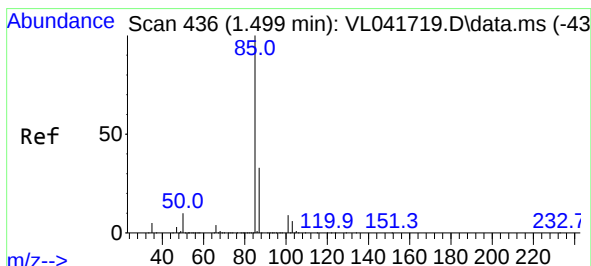
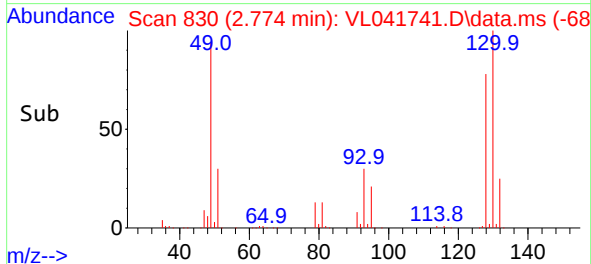
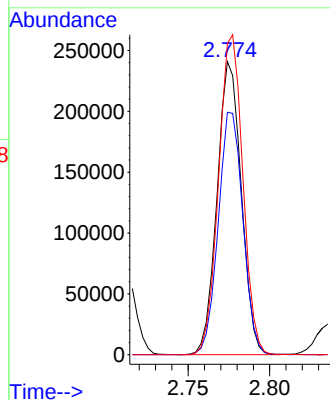
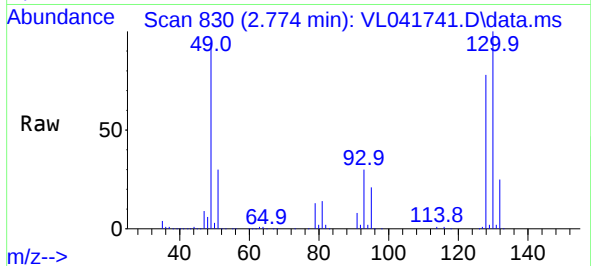




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. -0.020 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

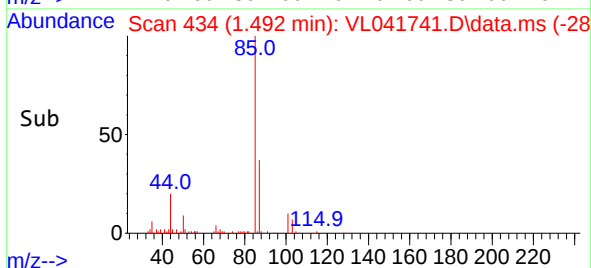
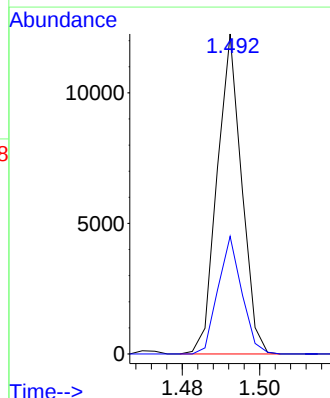
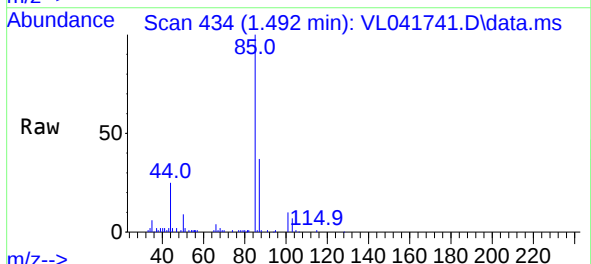
Instrument :
MSVOA_L
ClientSampleId :
SV1

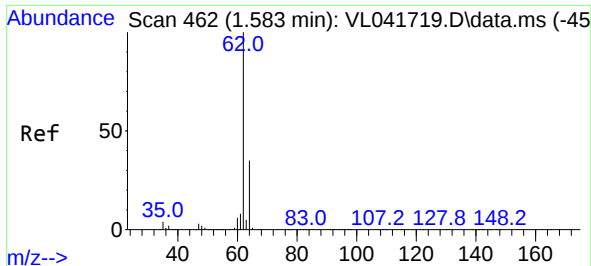
Tgt Ion: 49 Resp: 248666
Ion Ratio Lower Upper
49 100
128 84.1 42.8 128.3
130 109.2 55.8 167.4



#2
Dichlorodifluoromethane
Concen: 0.123 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 85 Resp: 5385
Ion Ratio Lower Upper
85 100
87 36.7 26.6 39.8

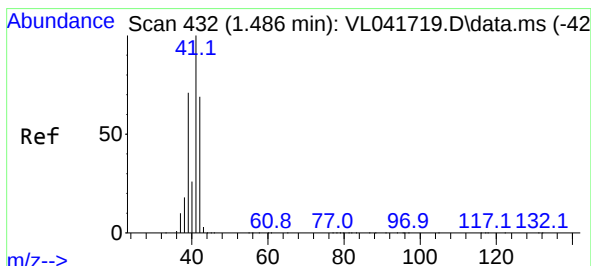
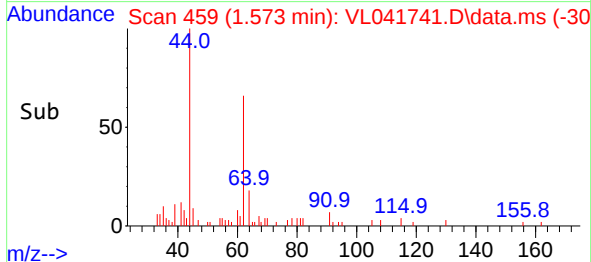
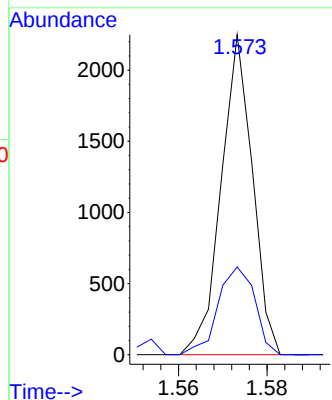
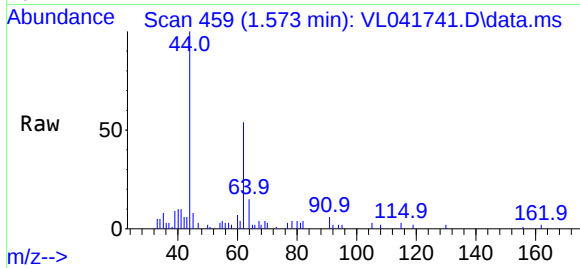




#5
 Vinyl Chloride
 Concen: 0.078 ppbv
 RT: 1.573 min Scan# 411
 Delta R.T. -0.010 min
 Lab File: VL041741.D
 Acq: 12 Dec 2024 09:30

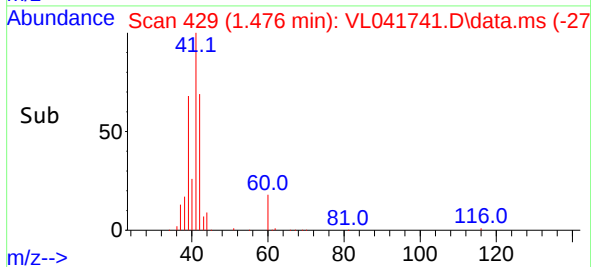
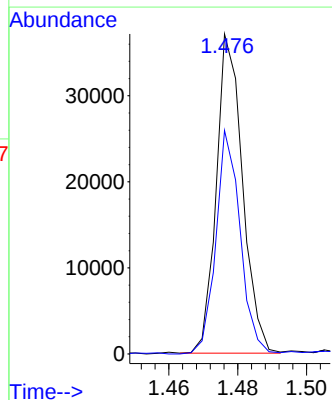
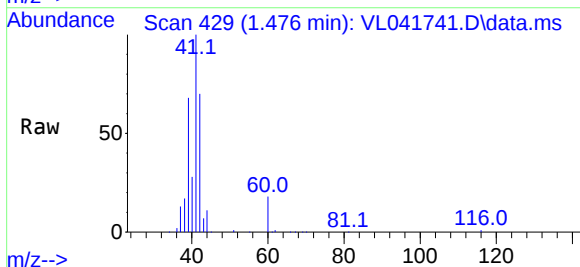
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

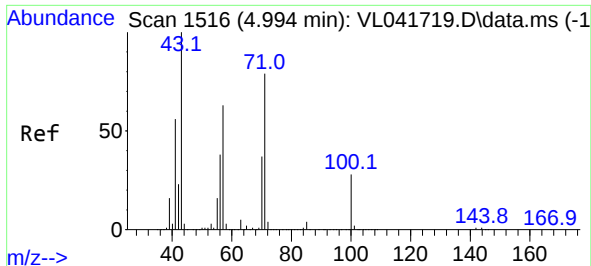
Tgt Ion: 62 Resp: 1105
 Ion Ratio Lower Upper
 62 100
 64 27.4 27.6 41.4#



#9
 Propene
 Concen: 1.360 ppbv
 RT: 1.476 min Scan# 429
 Delta R.T. -0.010 min
 Lab File: VL041741.D
 Acq: 12 Dec 2024 09:30

Tgt Ion: 41 Resp: 19632
 Ion Ratio Lower Upper
 41 100
 42 64.7 56.2 84.4

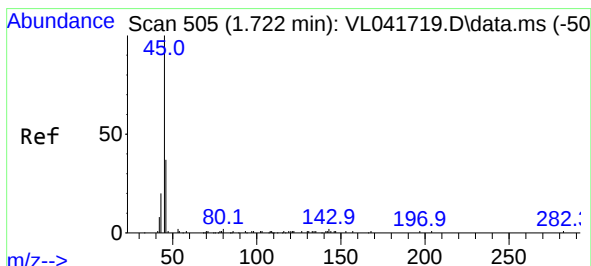
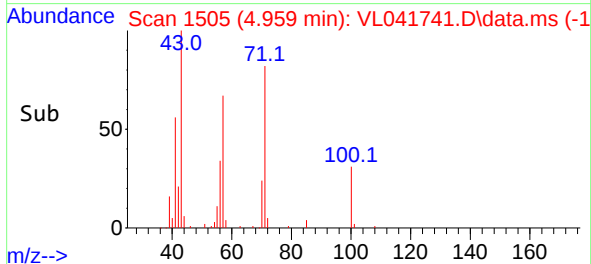
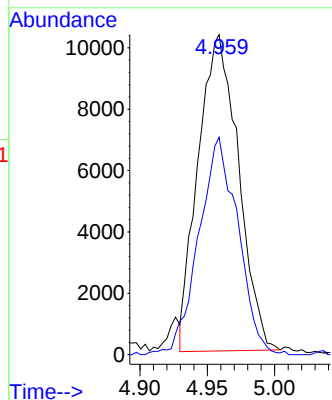
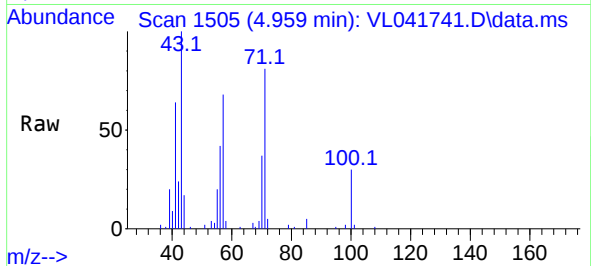




#10
Heptane
Concen: 0.539 ppbv
RT: 4.959 min Scan# 11
Delta R.T. -0.036 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

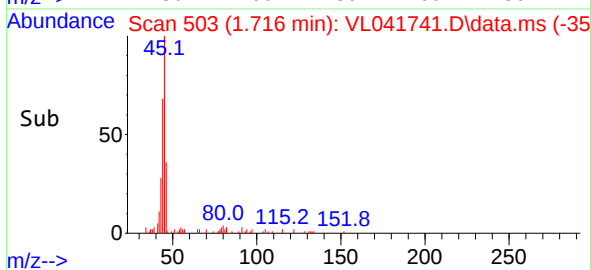
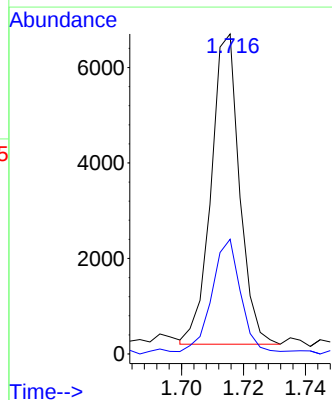
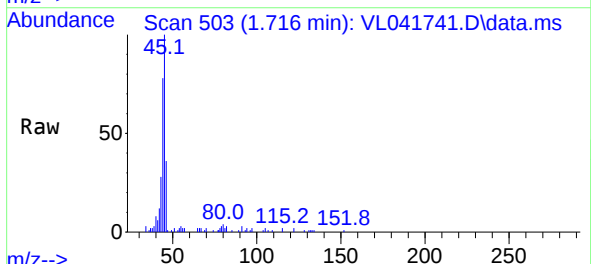
Instrument :
MSVOA_L
ClientSampleId :
SV1

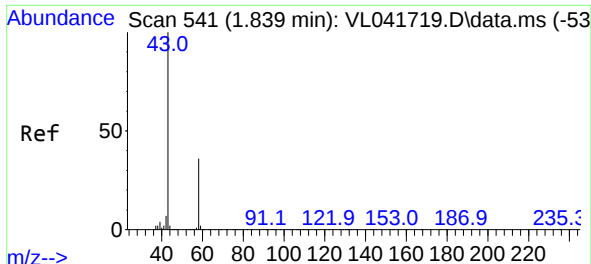
Tgt Ion: 43 Resp: 21511
Ion Ratio Lower Upper
43 100
57 66.9 50.5 75.7



#13
Ethanol
Concen: 3.466 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.007 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 45 Resp: 4138
Ion Ratio Lower Upper
45 100
46 35.9 16.6 66.6

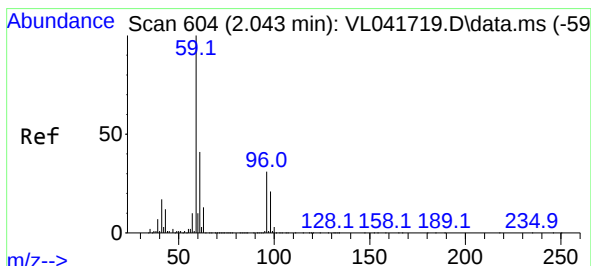
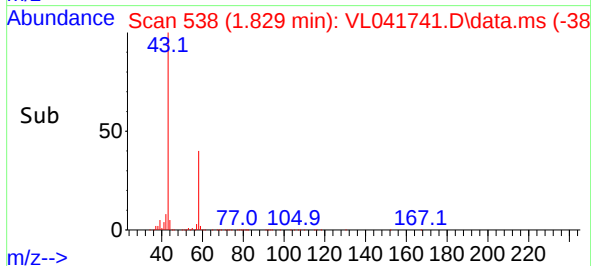
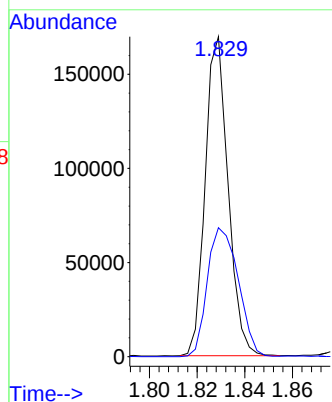
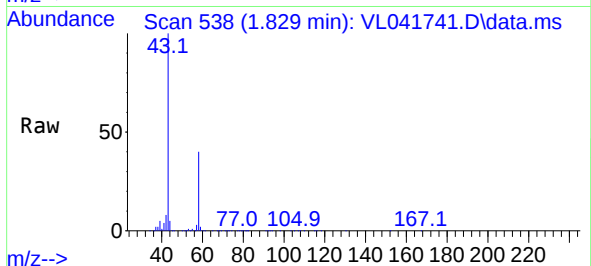




#15
Acetone
Concen: 3.934 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

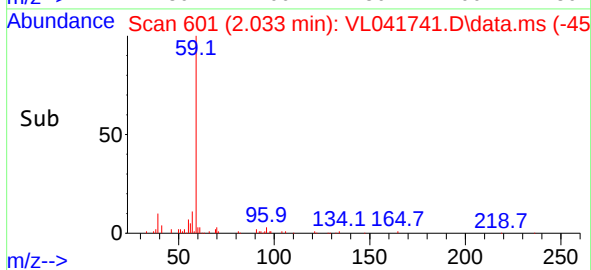
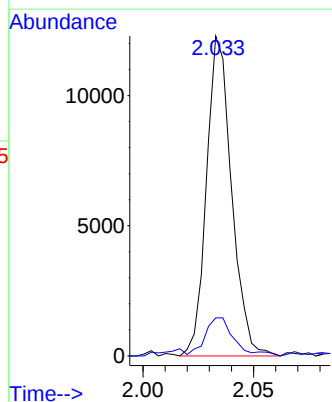
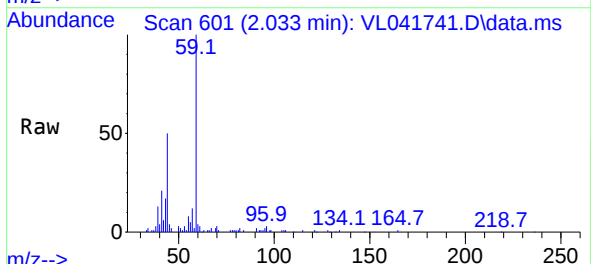
Instrument :
MSVOA_L
ClientSampleId :
SV1

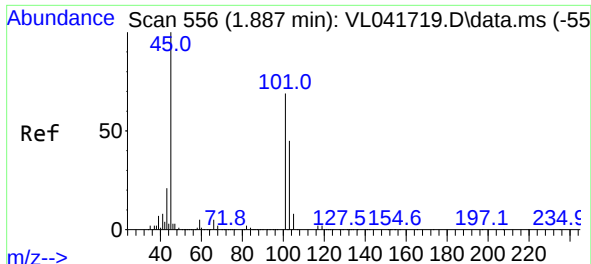
Tgt Ion: 43 Resp: 112952
Ion Ratio Lower Upper
43 100
58 55.4 28.9 43.3#



#17
tert-Butyl alcohol
Concen: 0.233 ppbv
RT: 2.033 min Scan# 601
Delta R.T. -0.010 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 59 Resp: 9693
Ion Ratio Lower Upper
59 100
57 16.3 8.2 12.4#





#19

Isopropyl Alcohol

Concen: 0.330 ppbv

RT: 1.881 min Scan# 51

Delta R.T. -0.007 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Instrument :

MSVOA_L

ClientSampleId :

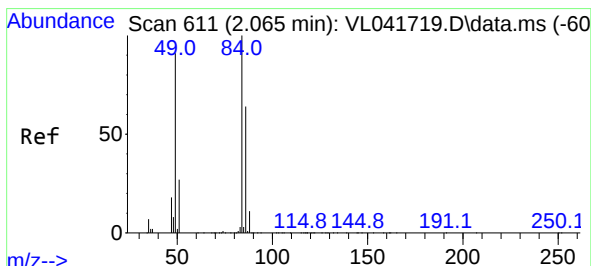
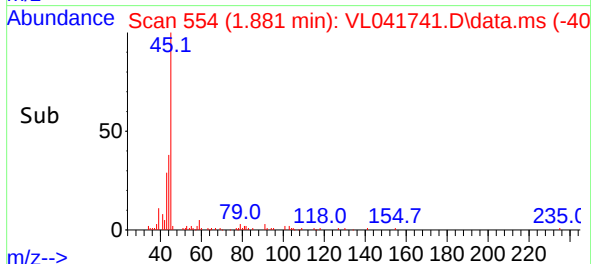
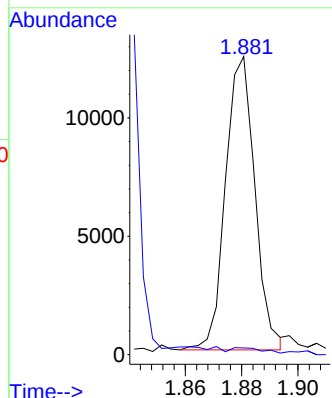
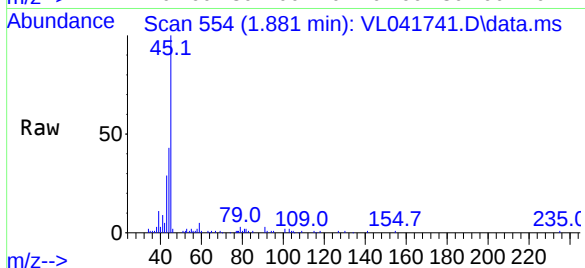
SV1

Tgt Ion: 45 Resp: 8990

Ion Ratio Lower Upper

45 100

58 695.9 40.6 61.0#



#20

Methylene Chloride

Concen: 0.332 ppbv

RT: 2.052 min Scan# 607

Delta R.T. -0.013 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Tgt Ion: 84 Resp: 5770

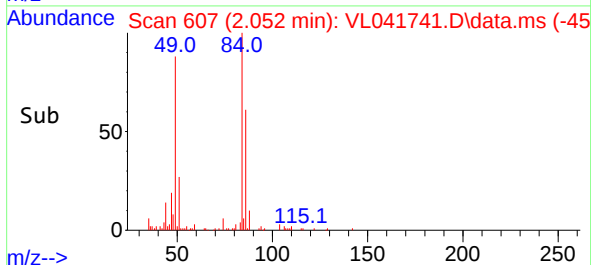
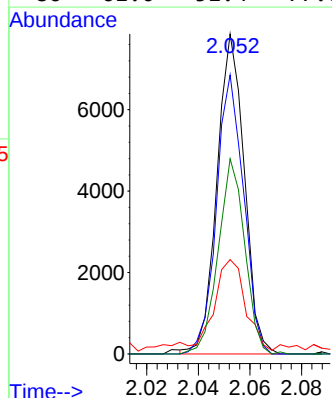
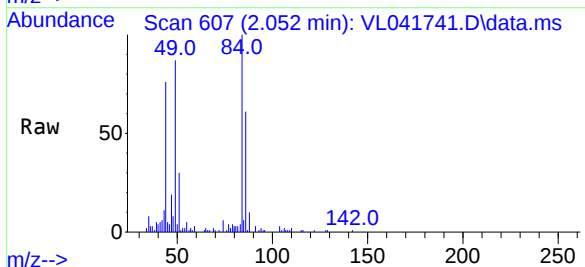
Ion Ratio Lower Upper

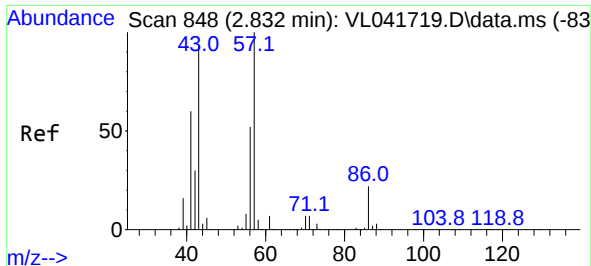
84 100

49 87.2 73.6 110.4

51 26.6 22.7 34.1

86 61.0 51.4 77.0

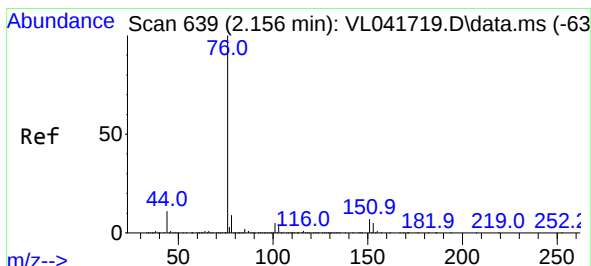
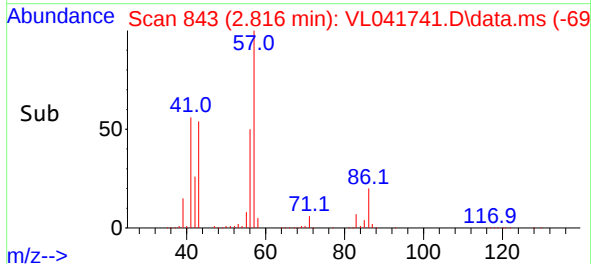
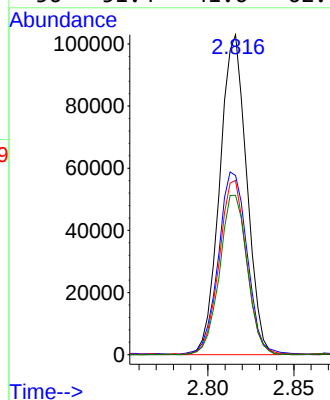
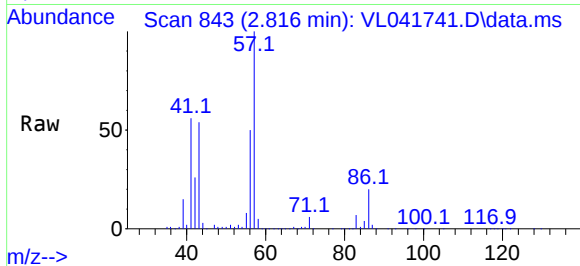




#26
Hexane
Concen: 2.894 ppbv
RT: 2.816 min Scan# 841
Delta R.T. -0.016 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

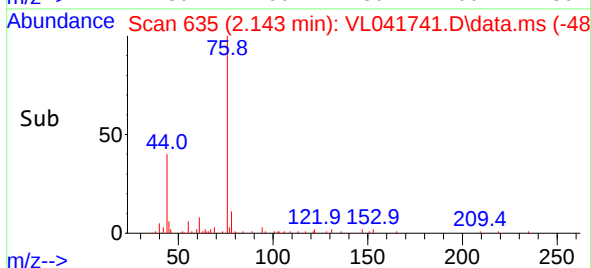
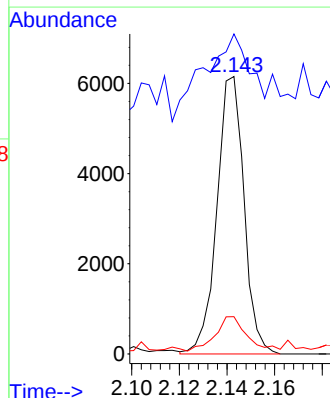
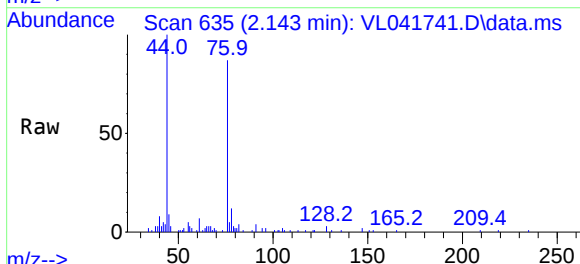
Instrument :
MSVOA_L
ClientSampleId :
SV1

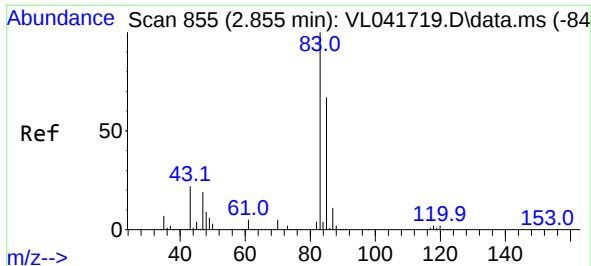
Tgt Ion: 57 Resp: 111986
Ion Ratio Lower Upper
57 100
41 60.5 49.5 74.3
43 55.0 150.6 225.8#
56 51.4 41.6 62.4



#27
Carbon Disulfide
Concen: 0.122 ppbv
RT: 2.143 min Scan# 635
Delta R.T. -0.013 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 76 Resp: 4855
Ion Ratio Lower Upper
76 100
44 49.4 9.4 14.0#
78 15.8 9.4 14.0#





#29

Chloroform

Concen: 7.173 ppbv

RT: 2.836 min Scan# 84

Delta R.T. -0.019 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Instrument :

MSVOA_L

ClientSampleId :

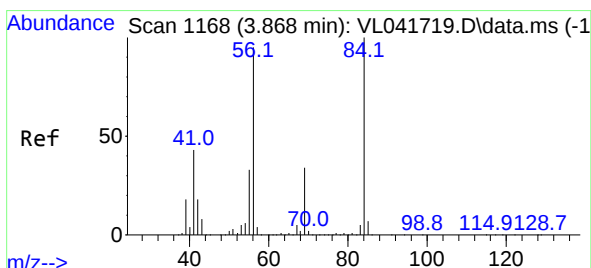
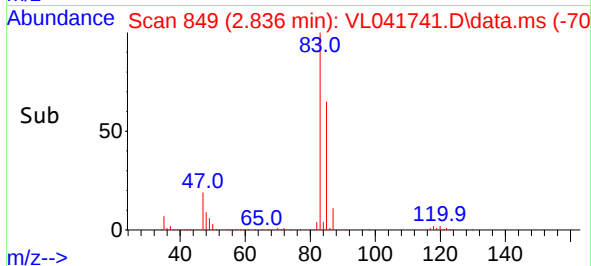
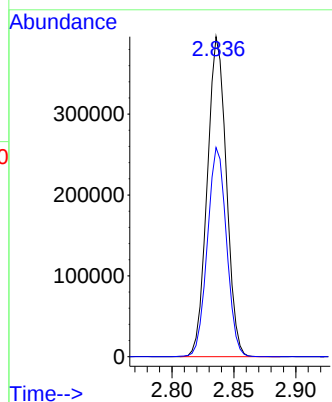
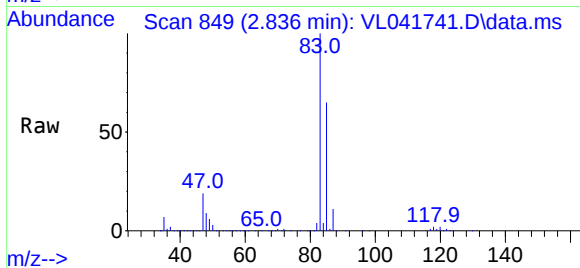
SV1

Tgt Ion: 83 Resp: 424960

Ion Ratio Lower Upper

83 100

85 65.3 53.6 80.4



#30

Cyclohexane

Concen: 0.172 ppbv

RT: 3.839 min Scan# 1159

Delta R.T. -0.029 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

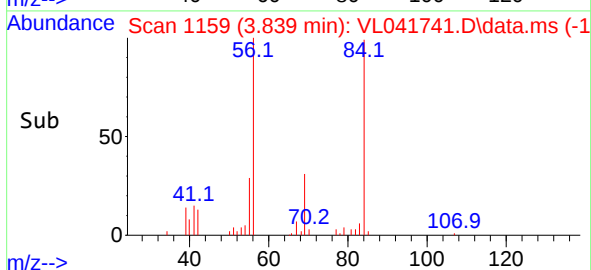
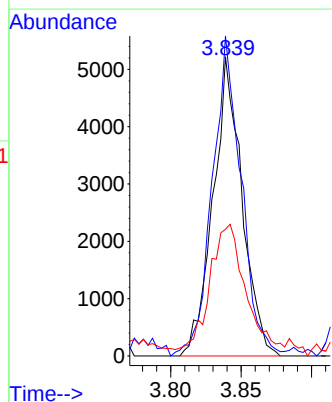
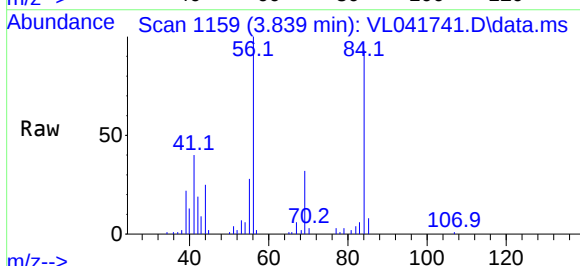
Tgt Ion: 84 Resp: 7471

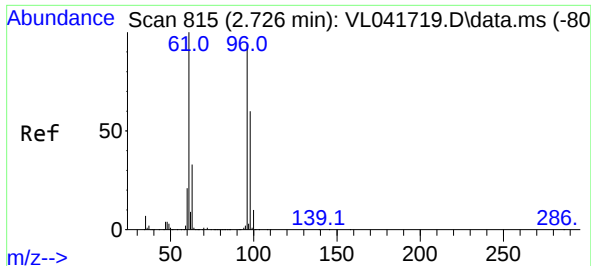
Ion Ratio Lower Upper

84 100

56 107.7 76.0 114.0

41 58.9 34.2 51.4#





#31

cis-1,2-Dichloroethene

Concen: 90.130 ppbv m

RT: 2.709 min Scan# 81

Delta R.T. -0.016 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Instrument :

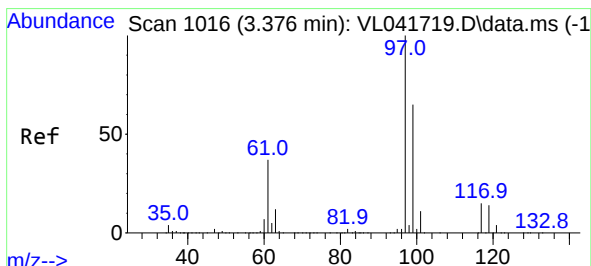
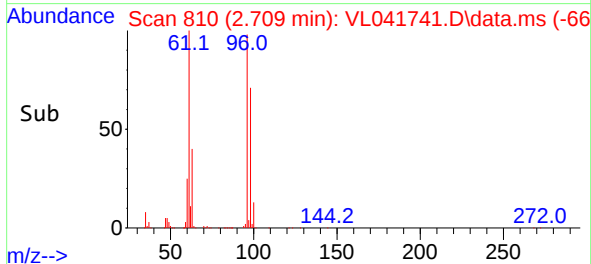
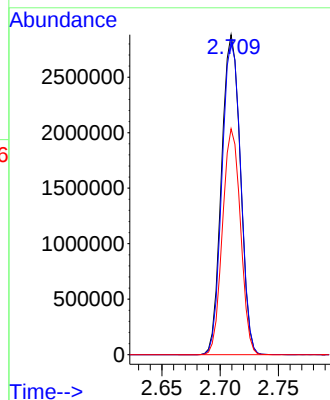
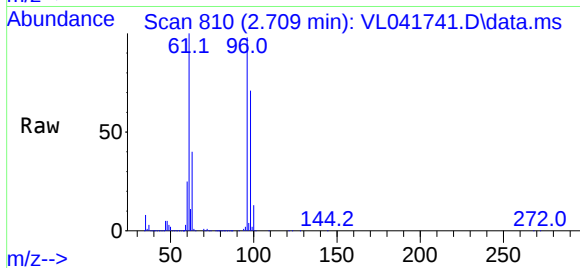
MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 61 Resp: 3231107

Ion	Ratio	Lower	Upper
61	100		
96	97.9	75.4	113.2
98	70.6	48.3	72.5



#32

1,1,1-Trichloroethane

Concen: 0.175 ppbv

RT: 3.357 min Scan# 1010

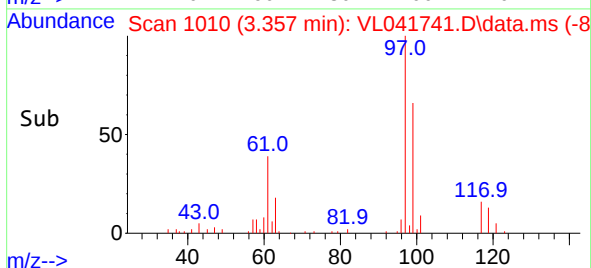
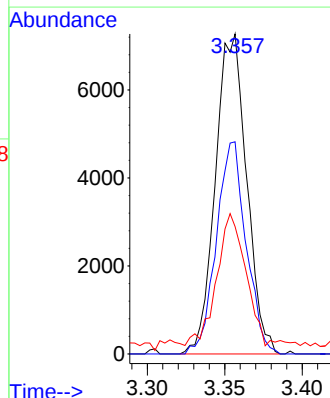
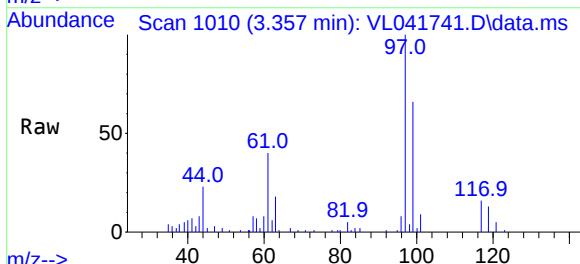
Delta R.T. -0.019 min

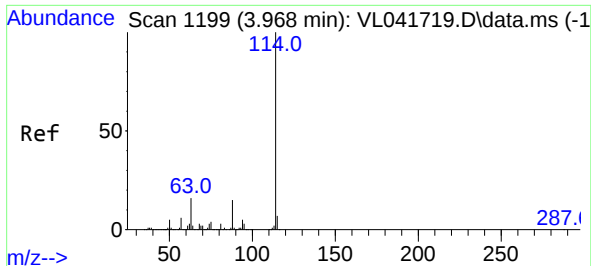
Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Tgt Ion: 97 Resp: 10208

Ion	Ratio	Lower	Upper
97	100		
99	63.3	52.2	78.2
61	41.1	29.8	44.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.939 min Scan# 1199

Delta R.T. -0.029 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

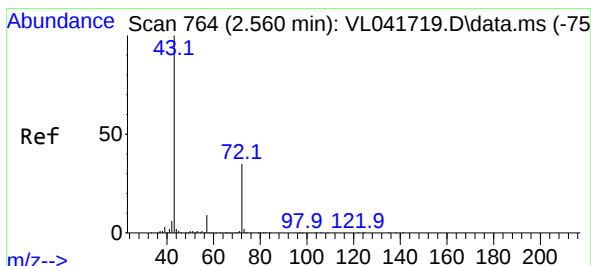
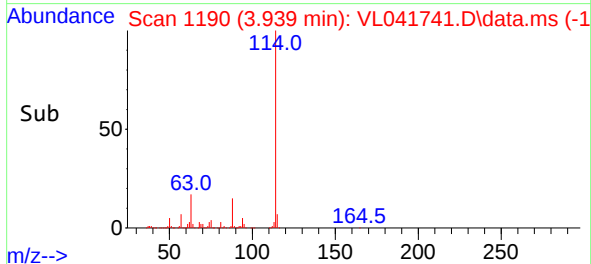
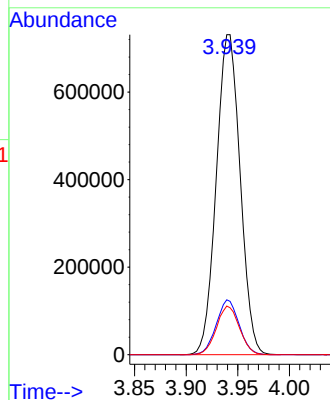
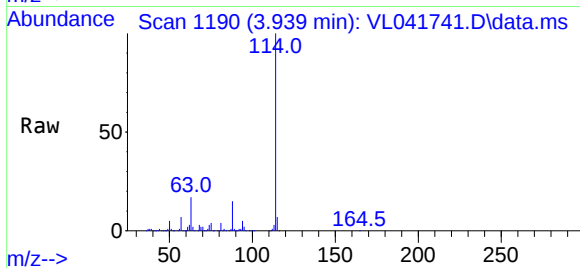
Tgt Ion:114 Resp: 1174841

Ion Ratio Lower Upper

114 100

63 16.4 12.9 19.3

88 14.7 11.8 17.6



#34

2-Butanone

Concen: 3.260 ppbv

RT: 2.547 min Scan# 760

Delta R.T. -0.013 min

Lab File: VL041741.D

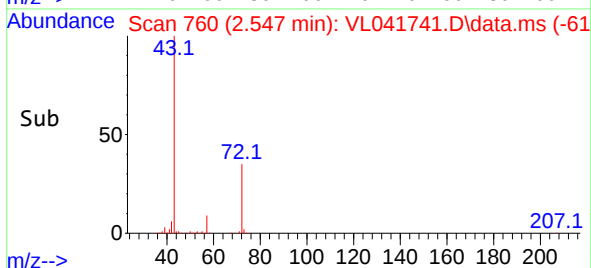
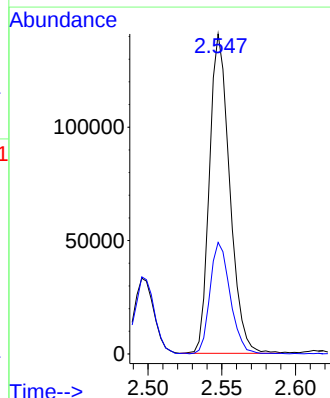
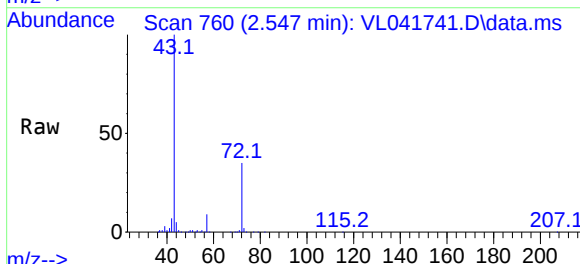
Acq: 12 Dec 2024 09:30

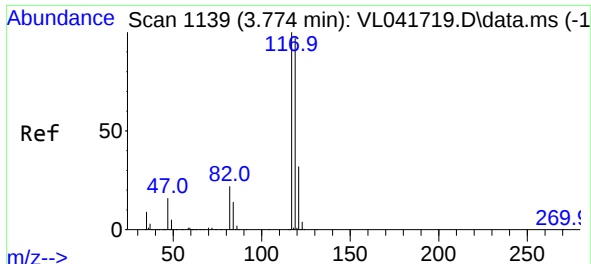
Tgt Ion: 43 Resp: 134108

Ion Ratio Lower Upper

43 100

72 35.3 28.3 42.5

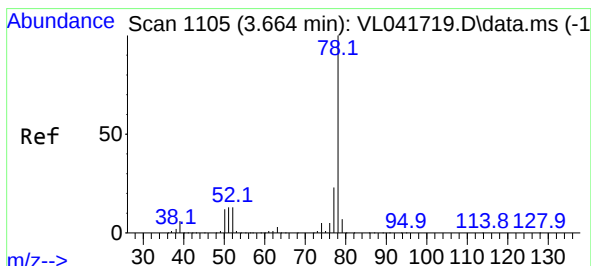
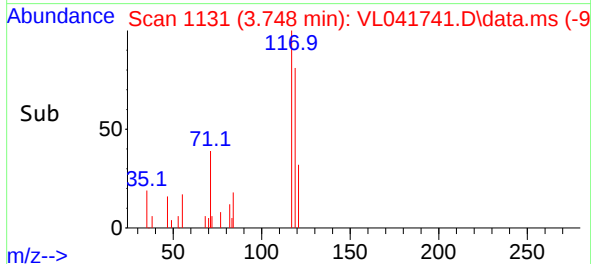
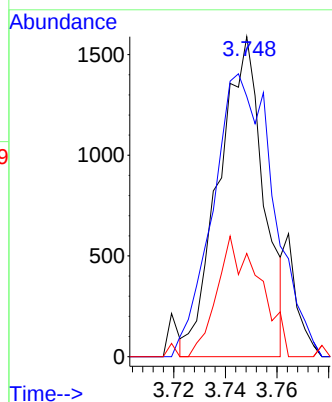
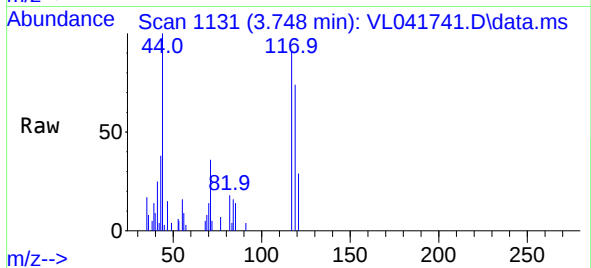




#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 3.748 min Scan# 1139
Delta R.T. -0.026 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

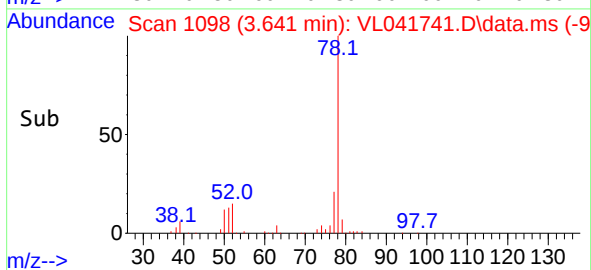
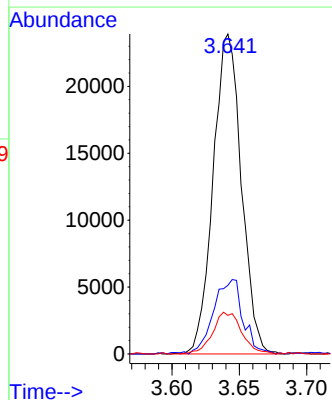
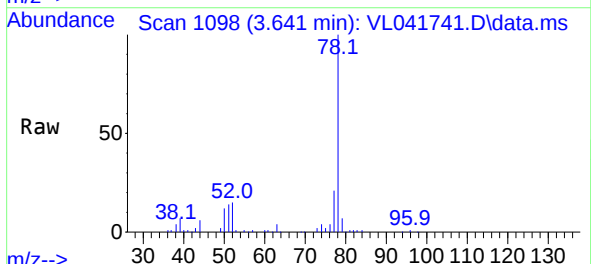
Instrument :
MSVOA_L
ClientSampleId :
SV1

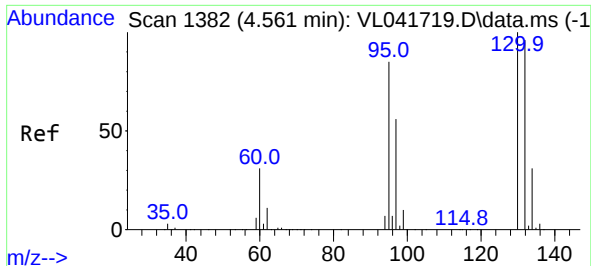
Tgt Ion:117 Resp: 1914
Ion Ratio Lower Upper
117 100
119 79.6 77.7 116.5
121 34.1 25.5 38.3



#36
Benzene
Concen: 0.377 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 78 Resp: 34844
Ion Ratio Lower Upper
78 100
77 21.1 18.6 27.8
50 12.1 9.5 14.3





#38

Trichloroethene

Concen: 7.580 ppbv

RT: 4.528 min Scan# 11

Delta R.T. -0.032 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:130 Resp: 363103

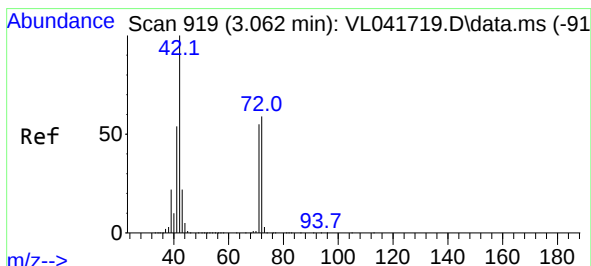
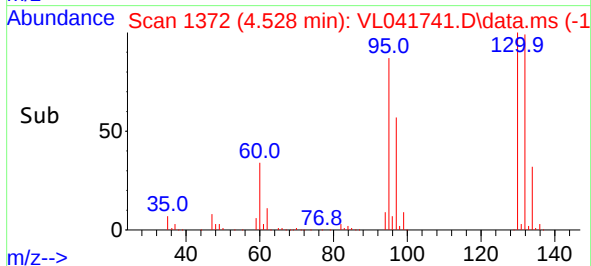
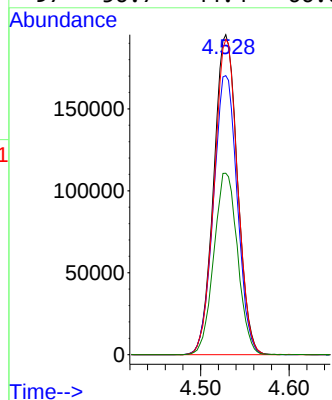
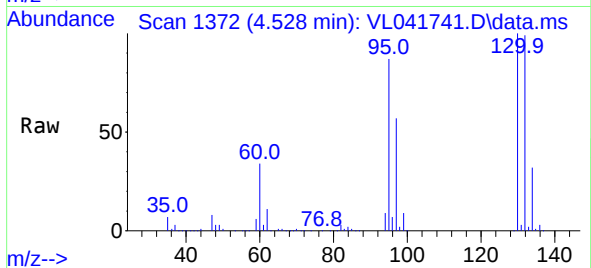
Ion Ratio Lower Upper

130 100

95 87.1 68.0 102.0

132 98.5 76.5 114.7

97 56.7 44.4 66.6



#41

Tetrahydrofuran

Concen: 0.142 ppbv

RT: 3.056 min Scan# 917

Delta R.T. -0.007 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

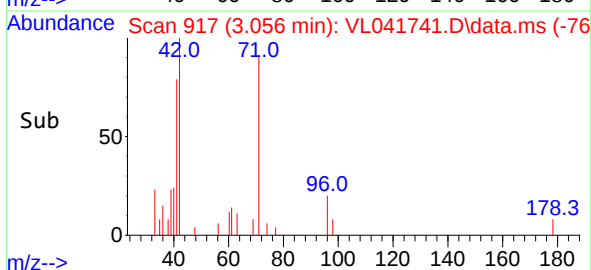
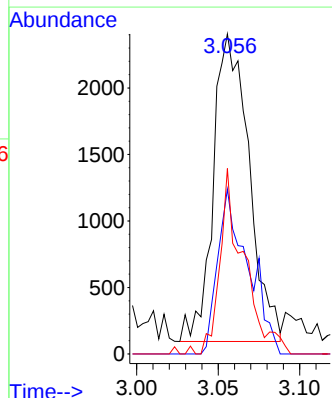
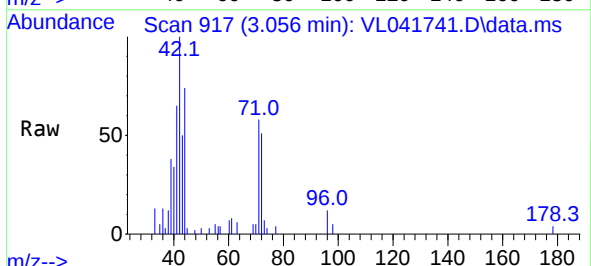
Tgt Ion: 42 Resp: 3518

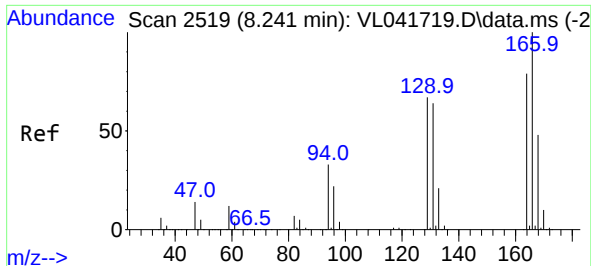
Ion Ratio Lower Upper

42 100

72 45.8 47.4 71.0#

71 40.6 44.4 66.6#



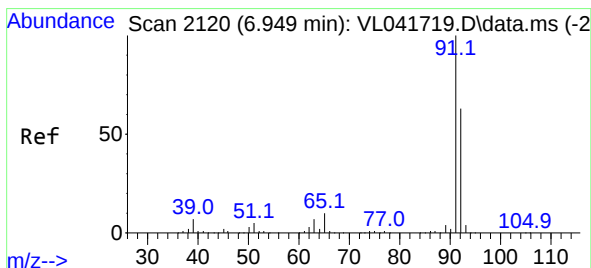
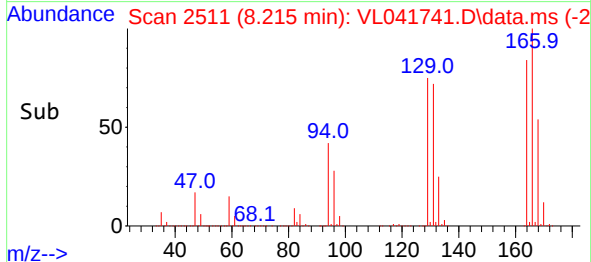
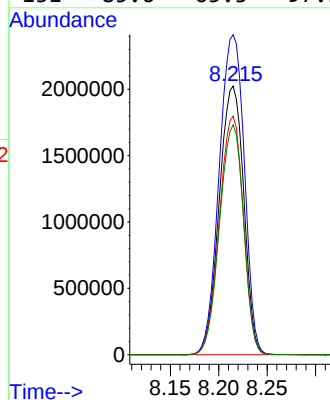
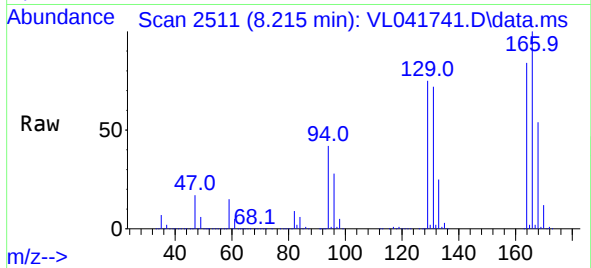


#52
Tetrachloroethene
Concen: 72.876 ppbv
RT: 8.215 min Scan# 2108
Delta R.T. -0.026 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Instrument :
MSVOA_1
ClientSampleId :
SV1

Tgt Ion:164 Resp: 3566631

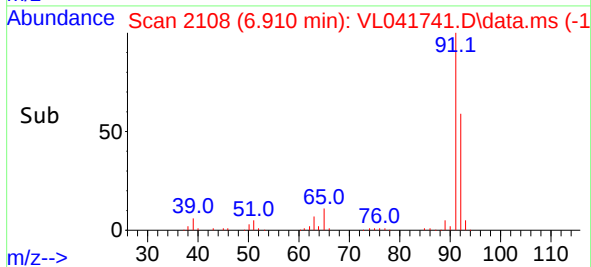
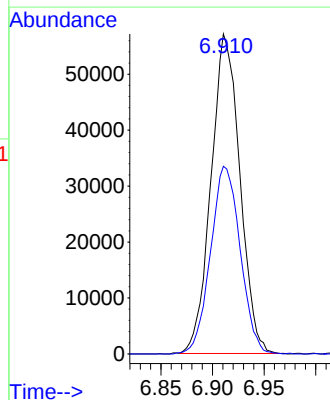
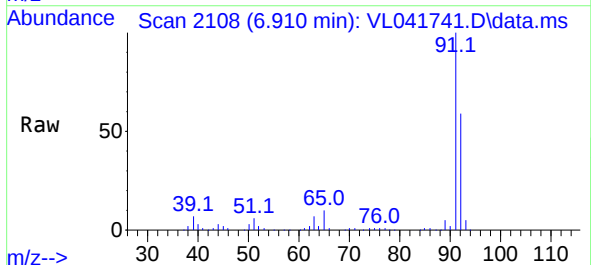
Ion	Ratio	Lower	Upper
164	100		
166	119.1	101.4	152.0
129	88.8	67.6	101.4
131	85.6	65.3	97.9

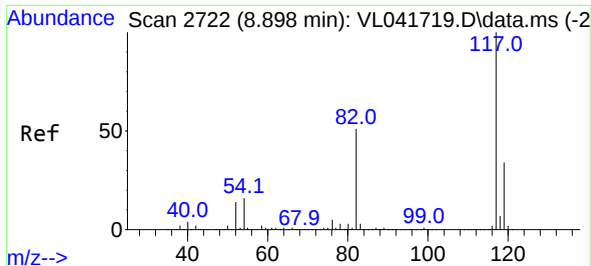


#53
Toluene
Concen: 0.977 ppbv
RT: 6.910 min Scan# 2108
Delta R.T. -0.039 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 91 Resp: 110875

Ion	Ratio	Lower	Upper
91	100		
92	60.6	49.7	74.5

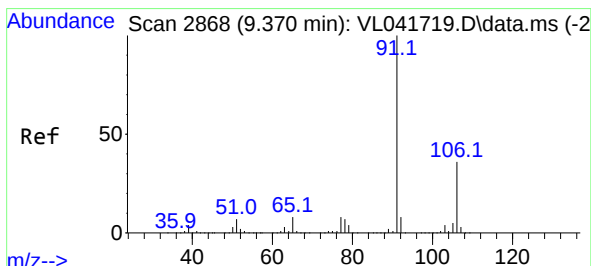
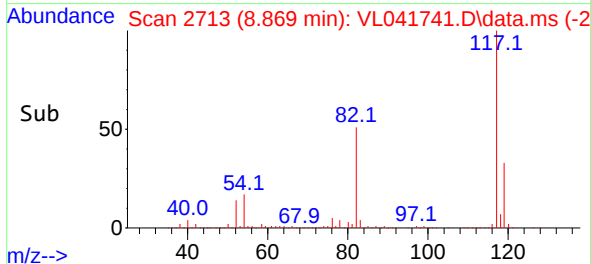
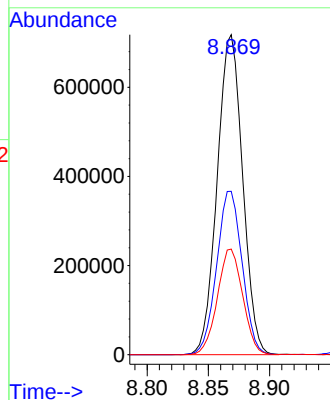
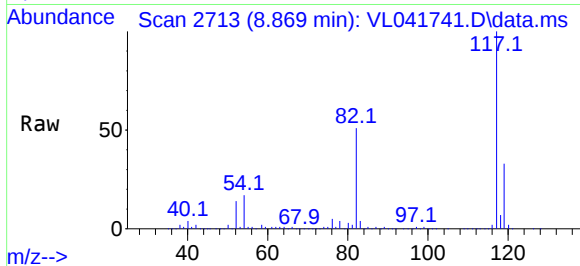




#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 8.869 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

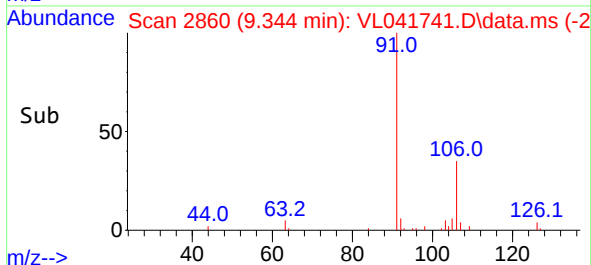
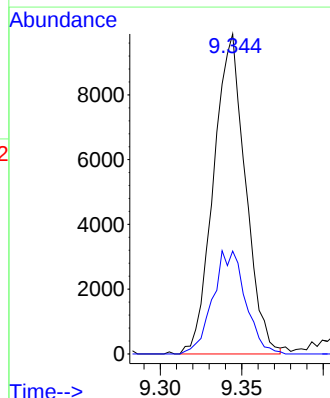
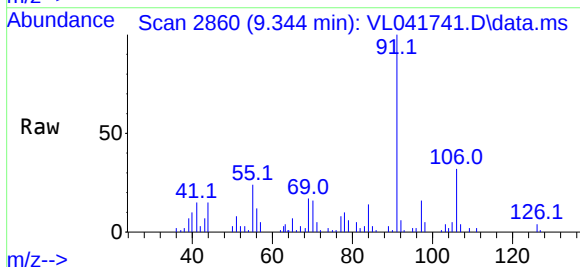
Instrument :
MSVOA_L
ClientSampleId :
SV1

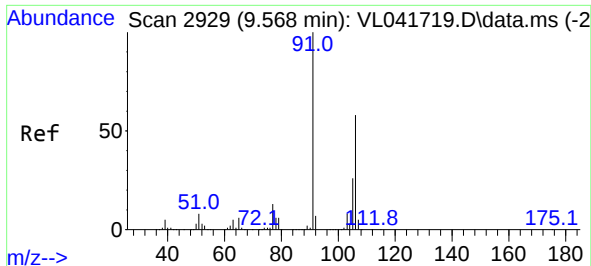
Tgt Ion:117 Resp: 1038894
Ion Ratio Lower Upper
117 100
82 0.0 41.3 61.9#
119 0.0 25.8 38.8#



#58
Ethyl Benzene
Concen: 0.096 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.026 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Tgt Ion: 91 Resp: 13407
Ion Ratio Lower Upper
91 100
106 32.1 28.6 43.0





#59

m/p-Xylene

Concen: 0.331 ppbv

RT: 9.519 min Scan# 2914

Delta R.T. -0.049 min

Lab File: VL041741.D

Acq: 12 Dec 2024 09:30

Instrument :

MSVOA_L

ClientSampleId :

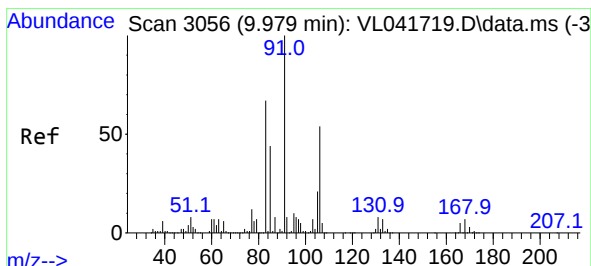
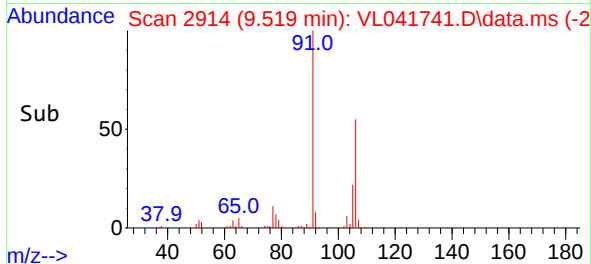
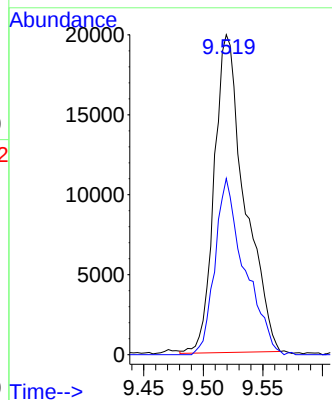
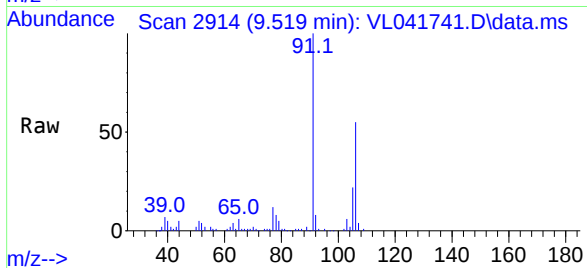
SV1

Tgt Ion: 91 Resp: 35278

Ion Ratio Lower Upper

91 100

106 54.0 45.1 67.7



#60

o-Xylene

Concen: 0.158 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. -0.026 min

Lab File: VL041741.D

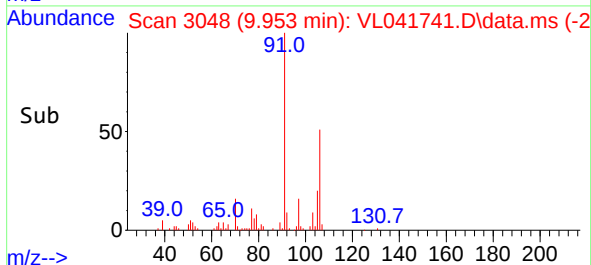
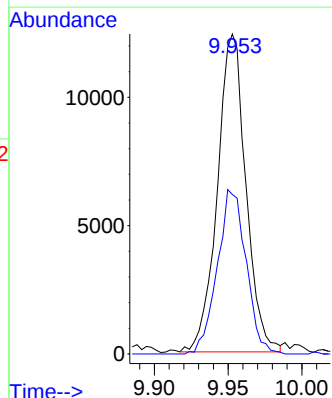
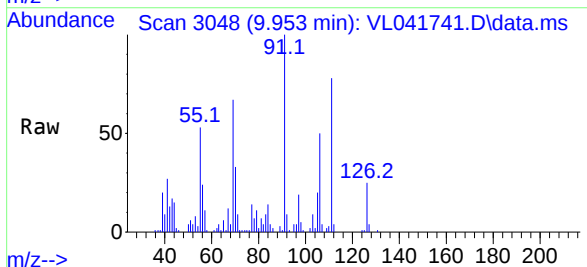
Acq: 12 Dec 2024 09:30

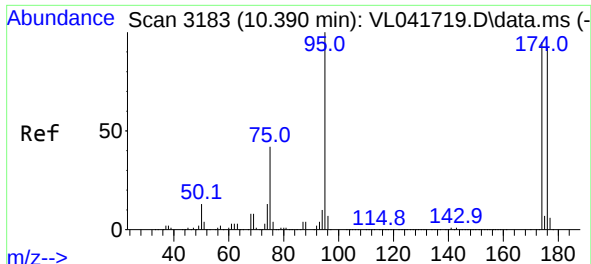
Tgt Ion: 91 Resp: 16663

Ion Ratio Lower Upper

91 100

106 52.3 26.8 80.4

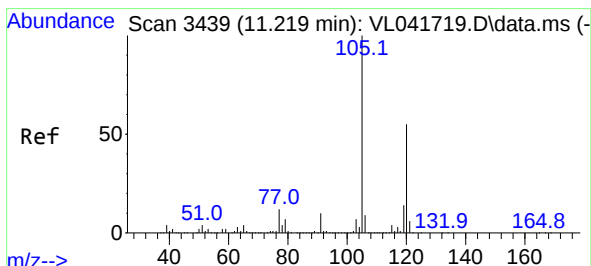
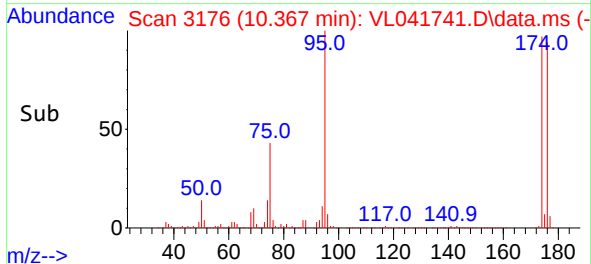
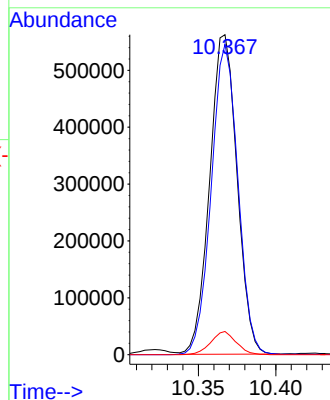
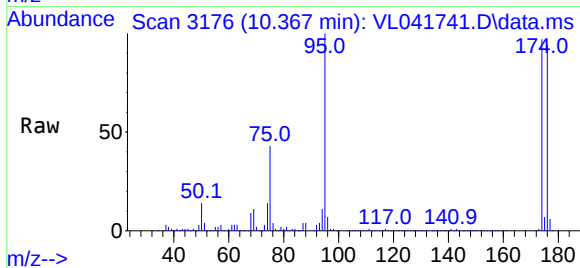




#68
1-Bromo-4-Fluorobenzene
Concen: 10.120 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

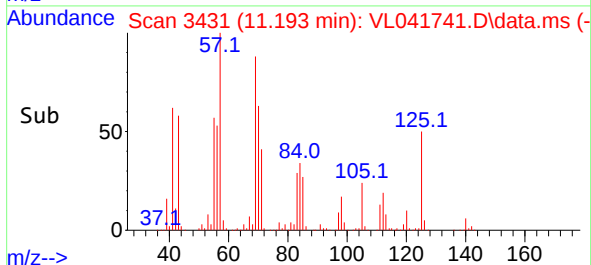
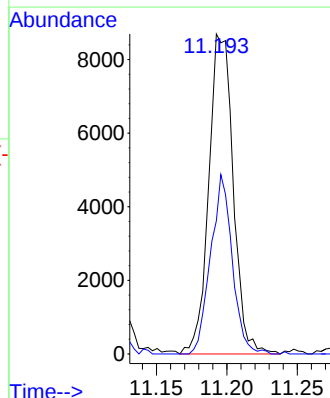
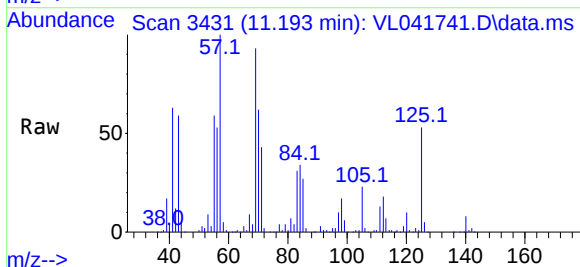
Instrument :
MSVOA_L
ClientSampleId :
SV1

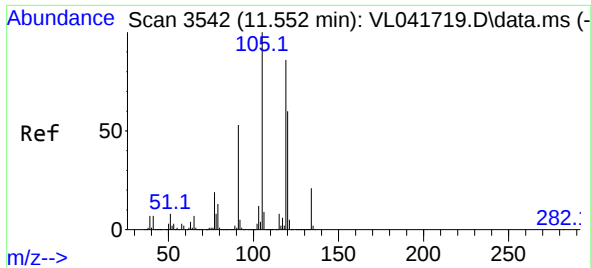
Tgt Ion: 95 Resp: 691149
Ion Ratio Lower Upper
95 100
174 94.4 76.7 115.1
175 6.7 5.4 8.2



#73
1,3,5-Trimethylbenzene
Concen: 0.095 ppbv
RT: 11.193 min Scan# 3431
Delta R.T. -0.026 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

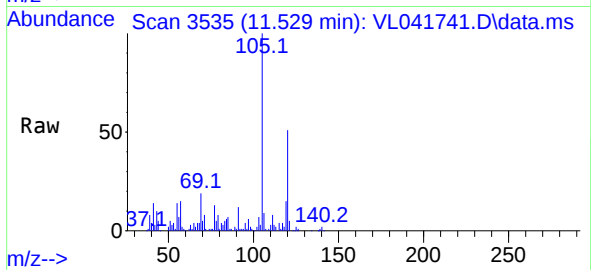
Tgt Ion: 105 Resp: 10499
Ion Ratio Lower Upper
105 100
120 41.6 43.6 65.4#



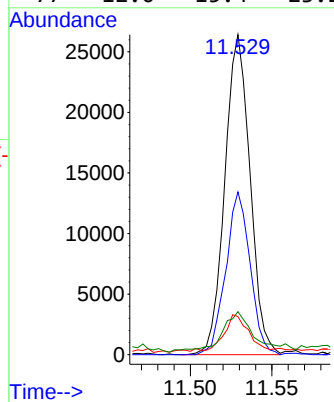
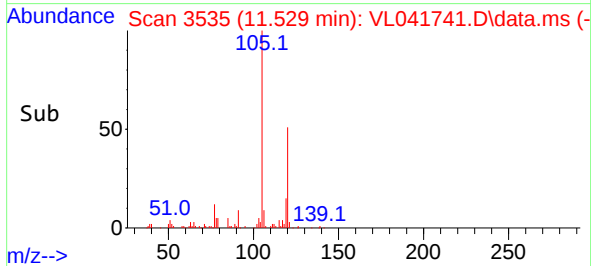


#74
1,2,4-Trimethylbenzene
Concen: 0.237 ppbv
RT: 11.529 min Scan# 31
Delta R.T. -0.023 min
Lab File: VL041741.D
Acq: 12 Dec 2024 09:30

Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:	105	Resp:	28374
Ion	Ratio	Lower	Upper
105	100		
120	50.9	47.8	71.6
91	10.5	42.5	63.7#
77	12.0	15.4	23.2#



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	SV1DL	SDG No.:	P5150
Lab Sample ID:	P5150-01DL	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
VL041746.D	40		12/12/24 12:06	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.56	1.43	UD	1.43	3.07	ug/m3
142-82-5	Heptane	4.40	18.0	UD	18.0	82.0	ug/m3
75-35-4	1,1-Dichloroethene	5.60	22.2	UD	22.2	79.3	ug/m3
110-82-7	Cyclohexane	8.80	30.3	UD	30.3	68.8	ug/m3
156-59-2	cis-1,2-Dichloroethene	500	1980	D	14.3	79.3	ug/m3
71-55-6	1,1,1-Trichloroethane	0.38	2.07	UD	2.07	6.55	ug/m3
540-84-1	2,2,4-Trimethylpentane	4.00	18.7	UD	18.7	93.4	ug/m3
71-43-2	Benzene	3.50	11.2	UD	11.2	63.9	ug/m3
107-06-2	1,2-Dichloroethane	3.60	14.6	UD	14.6	81.0	ug/m3
79-01-6	Trichloroethene	32.4	174	D	3.65	6.45	ug/m3
108-88-3	Toluene	4.40	16.6	JD	16.6	75.4	ug/m3
127-18-4	Tetrachloroethene	350	2370	D	4.07	8.14	ug/m3
100-41-4	Ethyl Benzene	4.80	20.9	UD	20.9	86.9	ug/m3
179601-23-1	m/p-Xylene	8.40	36.5	UD	36.5	174	ug/m3
95-47-6	o-Xylene	4.80	20.9	UD	20.9	86.9	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6	UD	21.6	98.3	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.10	15.2	UD	15.2	98.3	ug/m3
91-20-3	Naphthalene	3.00	15.7	UD	15.7	21.0	ug/m3
110-54-3	Hexane	12.8	45.1	JD	15.5	70.5	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	240000		2.774			
540-36-3	1,4-Difluorobenzene	1120000		3.939			
3114-55-4	Chlorobenzene-d5	972000		8.865			

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\VL121124\
 Data File : VL041746.D
 Acq On : 12 Dec 2024 12:06
 Operator : SY/MD
 Sample : P5150-01DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Dec 12 14:52:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	239706	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.939	114	1117191	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.865	117	972026	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	646982	10.125	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.200%

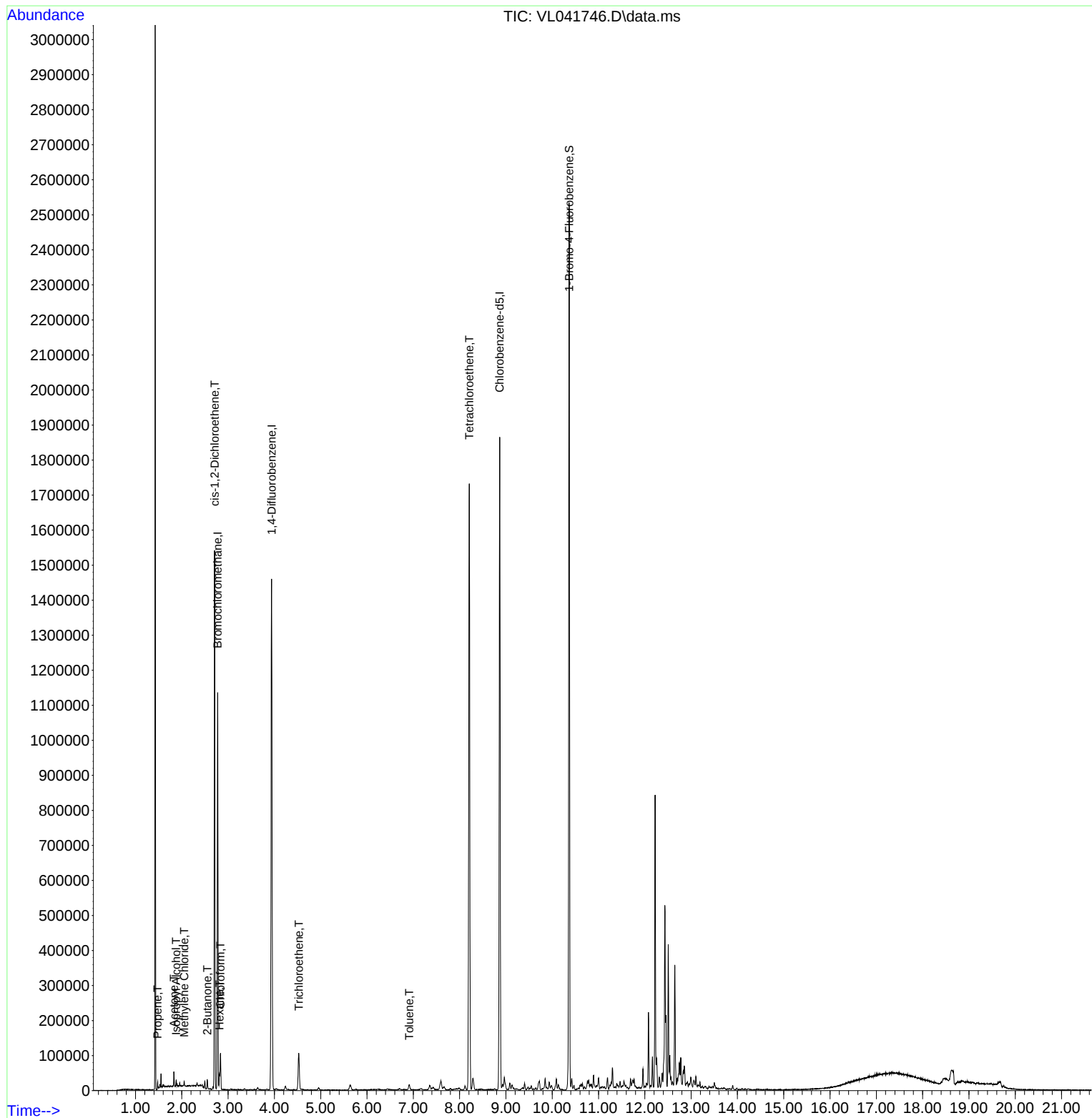
Target Compounds						Qvalue
9) Propene	1.476	41	3438	0.247	ppbv	98
15) Acetone	1.829	43	15718	0.568	ppbv #	66
19) Isopropyl Alcohol	1.877	45	8413	0.320	ppbv #	33
20) Methylene Chloride	2.052	84	2891	0.172	ppbv #	94
26) Hexane	2.813	57	12095	0.324	ppbv #	44
29) Chloroform	2.835	83	45096	0.790	ppbv	98
31) cis-1,2-Dichloroethene	2.709	61	434764	12.581	ppbv	99
34) 2-Butanone	2.551	43	15355	0.393	ppbv	95
38) Trichloroethene	4.528	130	36714	0.806	ppbv	96
52) Tetrachloroethene	8.208	164	404762	8.697	ppbv	100
53) Toluene	6.910	91	12027	0.111	ppbv	97

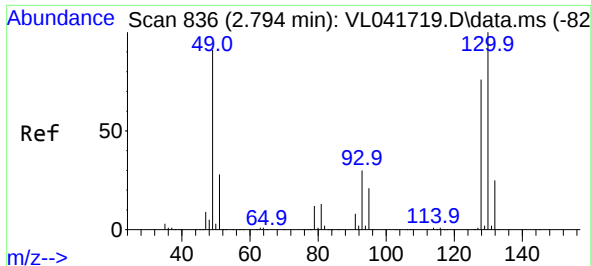
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041746.D
Acq On : 12 Dec 2024 12:06
Operator : SY/MD
Sample : P5150-01DL 40X
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

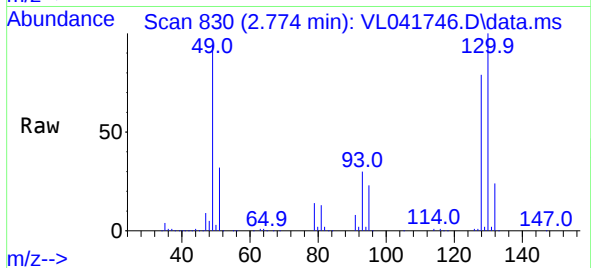
Quant Time: Dec 12 14:52:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration



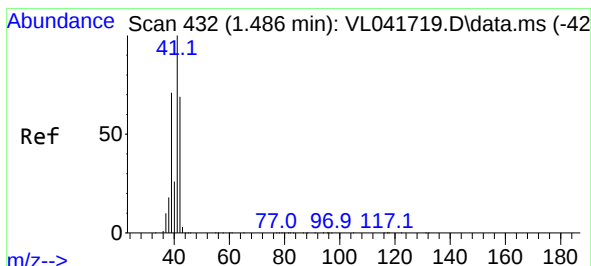
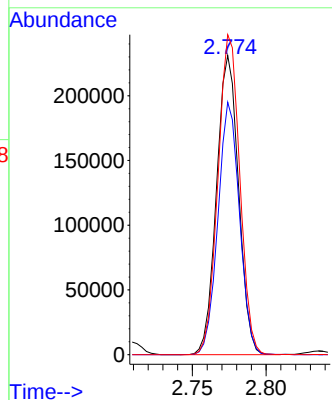


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. -0.020 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

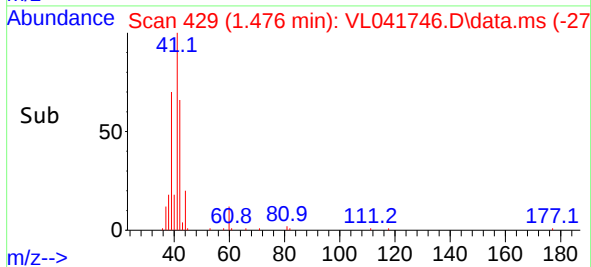
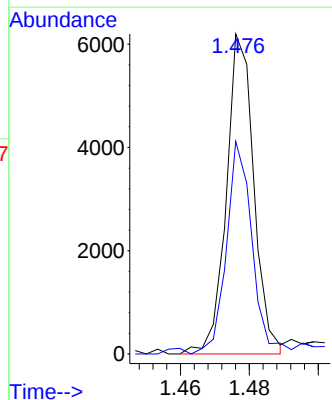
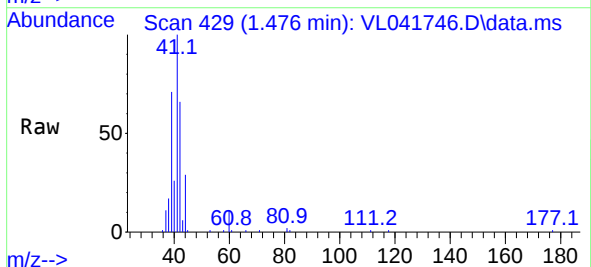


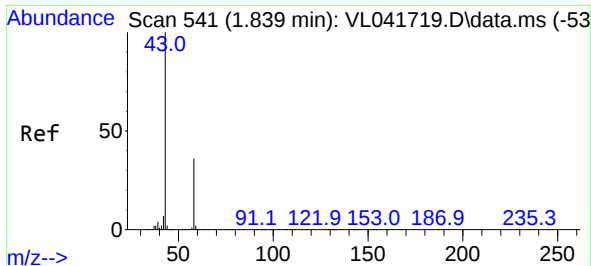
Tgt Ion: 49 Resp: 239706
Ion Ratio Lower Upper
49 100
128 82.6 42.8 128.3
130 106.4 55.8 167.4



#9
Propene
Concen: 0.247 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.010 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

Tgt Ion: 41 Resp: 3438
Ion Ratio Lower Upper
41 100
42 68.4 56.2 84.4

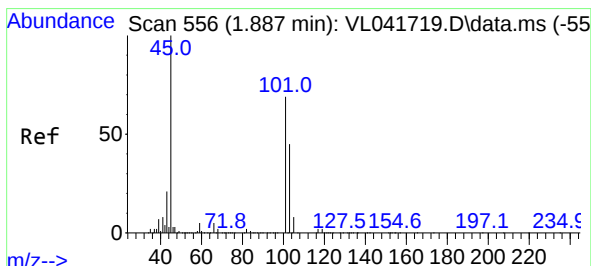
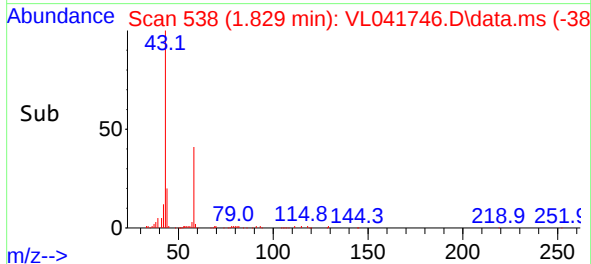
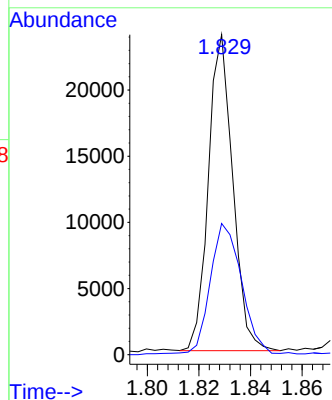
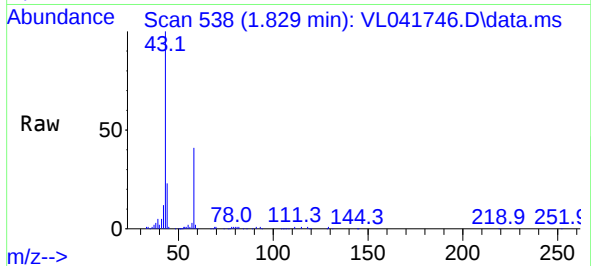




#15
Acetone
Concen: 0.568 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

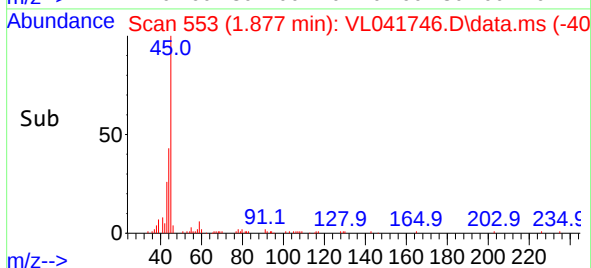
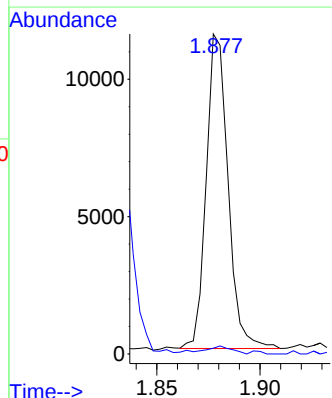
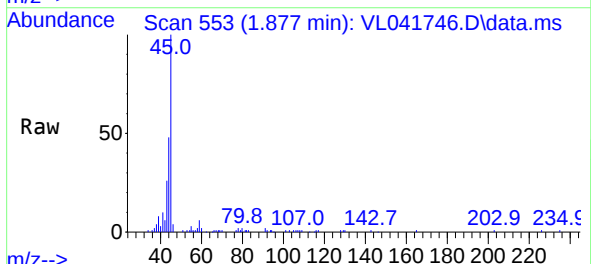
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

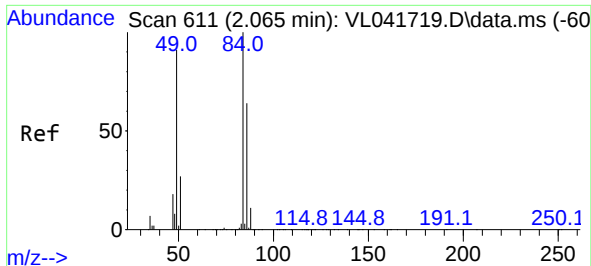
Tgt Ion: 43 Resp: 15718
Ion Ratio Lower Upper
43 100
58 56.2 28.9 43.3#



#19
Isopropyl Alcohol
Concen: 0.320 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.010 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

Tgt Ion: 45 Resp: 8413
Ion Ratio Lower Upper
45 100
58 4.0 40.6 61.0#

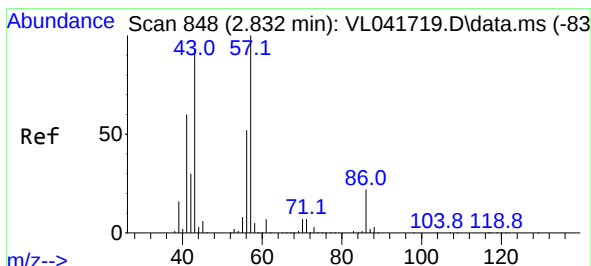
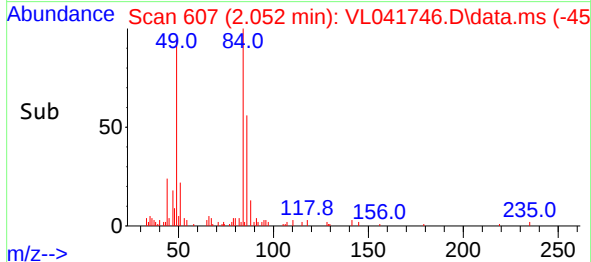
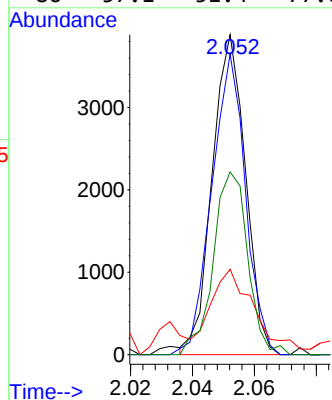
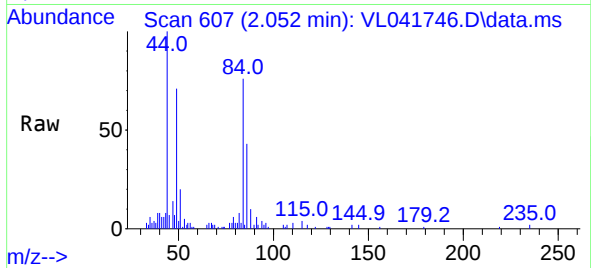




#20
Methylene Chloride
Concen: 0.172 ppbv
RT: 2.052 min Scan# 60
Delta R.T. -0.013 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

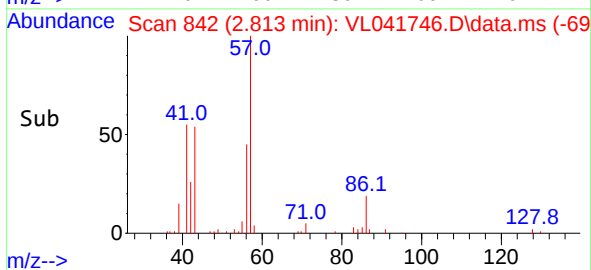
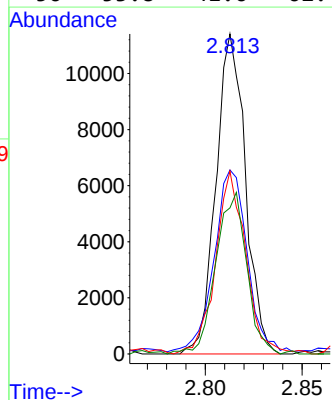
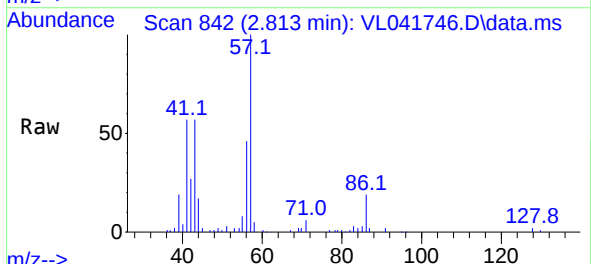
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

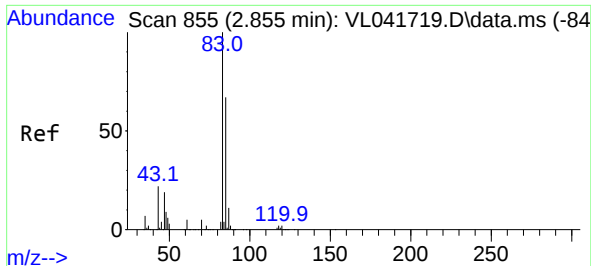
Tgt Ion: 84 Resp: 2891
Ion Ratio Lower Upper
84 100
49 93.9 73.6 110.4
51 20.7 22.7 34.1#
86 57.1 51.4 77.0



#26
Hexane
Concen: 0.324 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.020 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

Tgt Ion: 57 Resp: 12095
Ion Ratio Lower Upper
57 100
41 62.4 49.5 74.3
43 58.6 150.6 225.8#
56 53.8 41.6 62.4





#29

Chloroform

Concen: 0.790 ppbv

RT: 2.835 min Scan# 84

Delta R.T. -0.020 min

Lab File: VL041746.D

Acq: 12 Dec 2024 12:06

Instrument :

MSVOA_L

ClientSampleId :

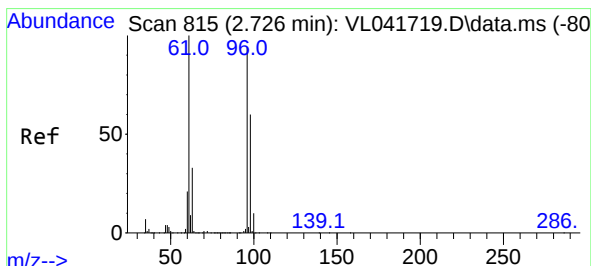
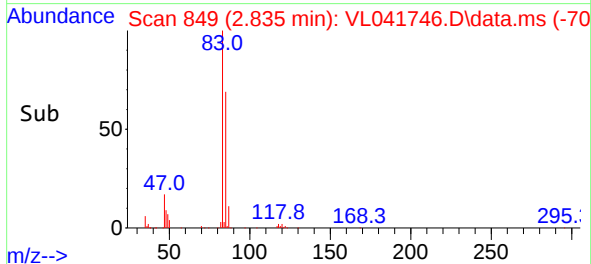
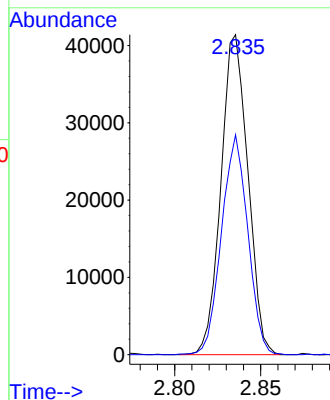
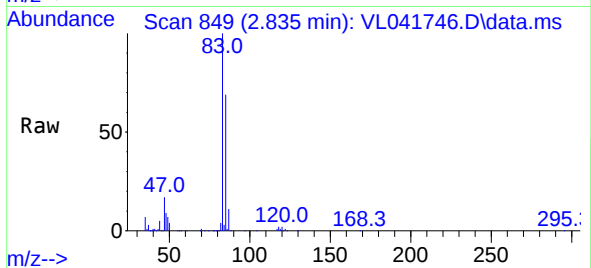
SV1DL

Tgt Ion: 83 Resp: 45096

Ion Ratio Lower Upper

83 100

85 68.5 53.6 80.4



#31

cis-1,2-Dichloroethene

Concen: 12.581 ppbv

RT: 2.709 min Scan# 810

Delta R.T. -0.016 min

Lab File: VL041746.D

Acq: 12 Dec 2024 12:06

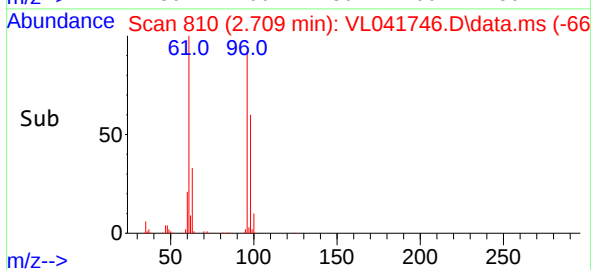
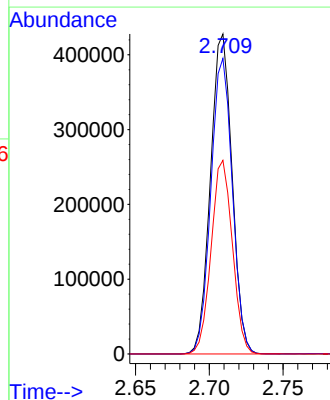
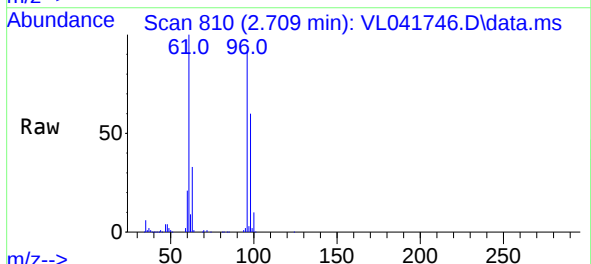
Tgt Ion: 61 Resp: 434764

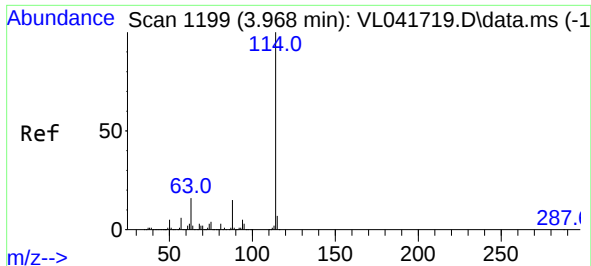
Ion Ratio Lower Upper

61 100

96 92.3 75.4 113.2

98 60.5 48.3 72.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.939 min Scan# 11

Delta R.T. -0.029 min

Lab File: VL041746.D

Acq: 12 Dec 2024 12:06

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

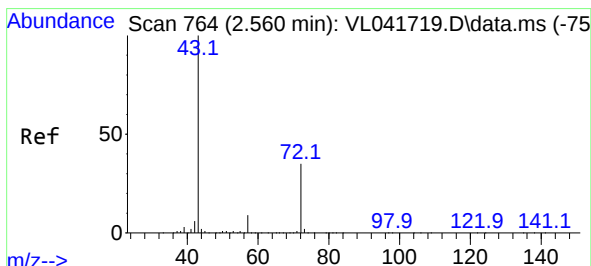
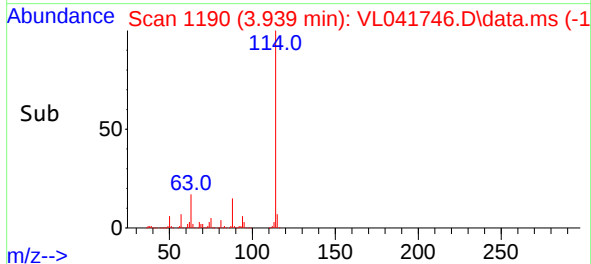
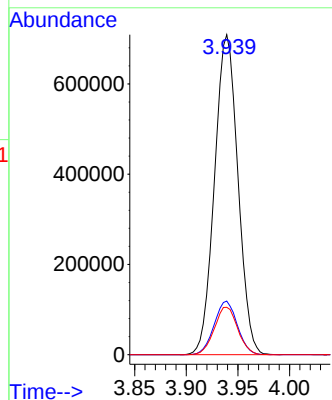
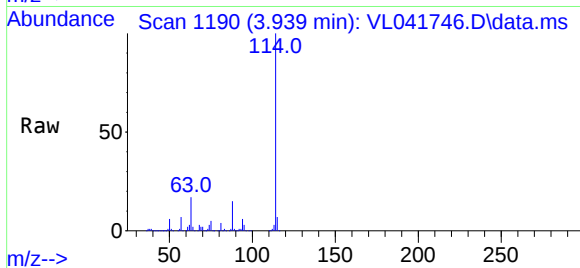
Tgt Ion:114 Resp: 1117191

Ion Ratio Lower Upper

114 100

63 16.6 12.9 19.3

88 14.9 11.8 17.6



#34

2-Butanone

Concen: 0.393 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.010 min

Lab File: VL041746.D

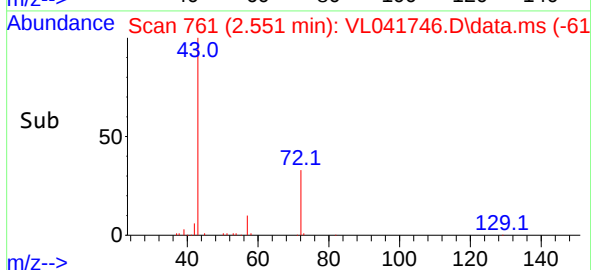
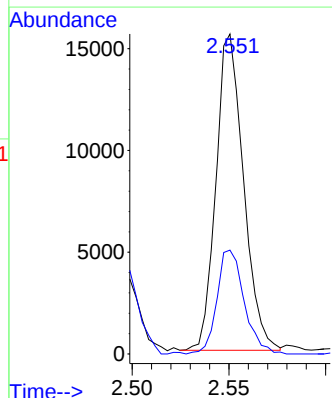
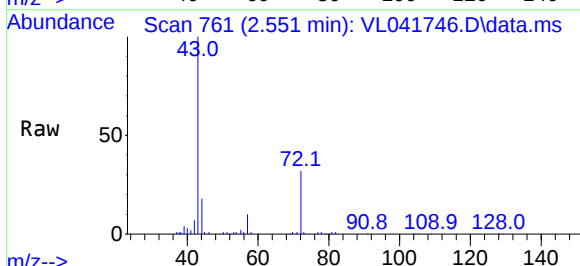
Acq: 12 Dec 2024 12:06

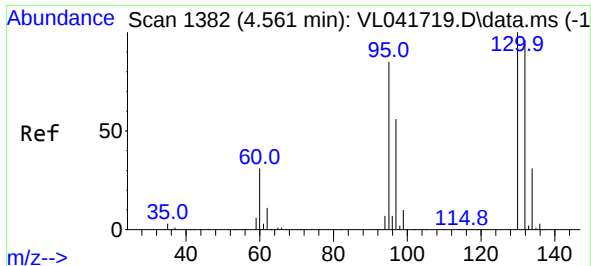
Tgt Ion: 43 Resp: 15355

Ion Ratio Lower Upper

43 100

72 32.5 28.3 42.5

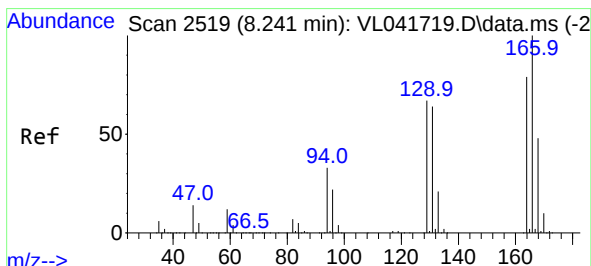
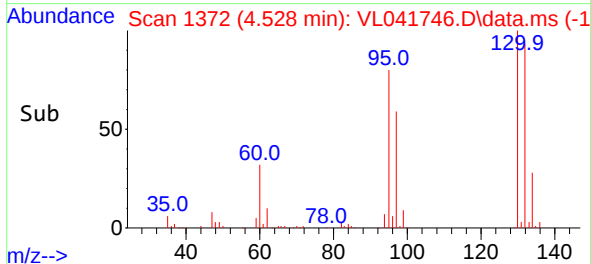
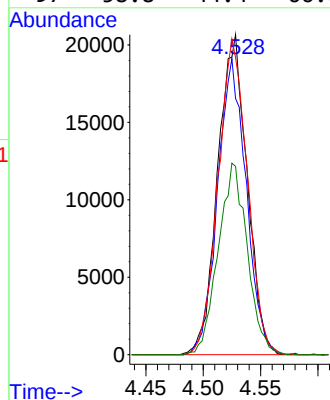
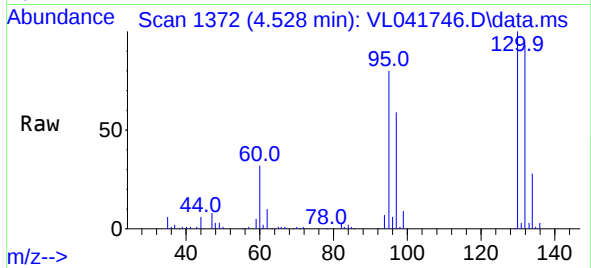




#38
Trichloroethene
Concen: 0.806 ppbv
RT: 4.528 min Scan# 11
Delta R.T. -0.033 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

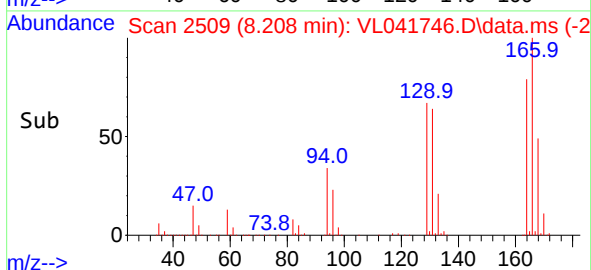
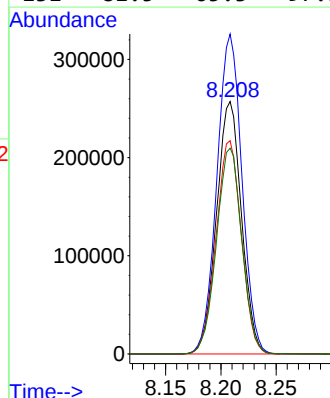
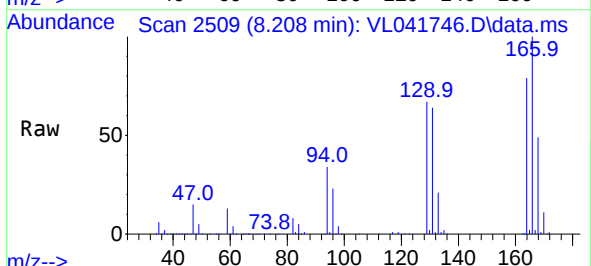
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

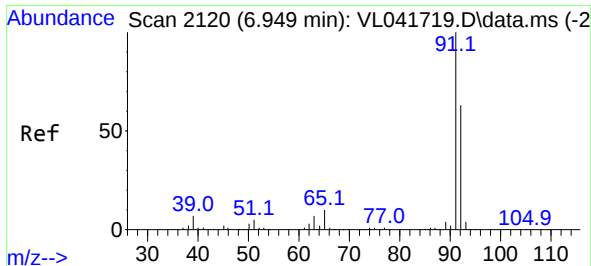
Tgt Ion:130 Resp: 36714
Ion Ratio Lower Upper
130 100
95 80.1 68.0 102.0
132 92.9 76.5 114.7
97 58.8 44.4 66.6



#52
Tetrachloroethene
Concen: 8.697 ppbv
RT: 8.208 min Scan# 2509
Delta R.T. -0.033 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

Tgt Ion:164 Resp: 404762
Ion Ratio Lower Upper
164 100
166 126.7 101.4 152.0
129 84.5 67.6 101.4
131 81.5 65.3 97.9

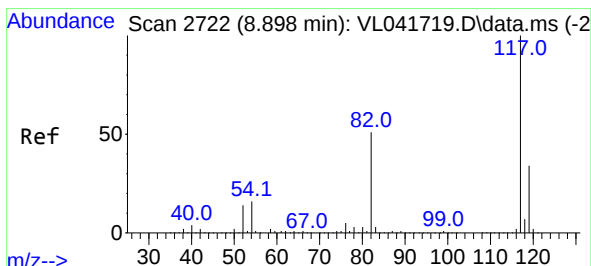
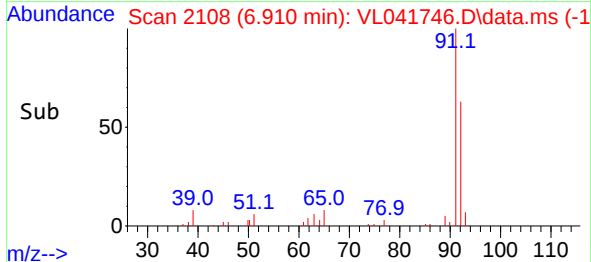
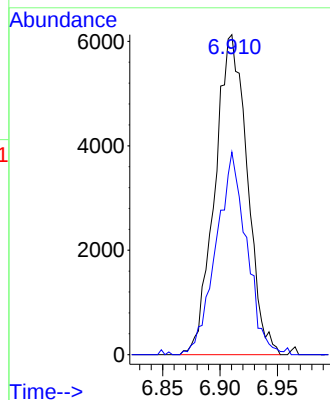
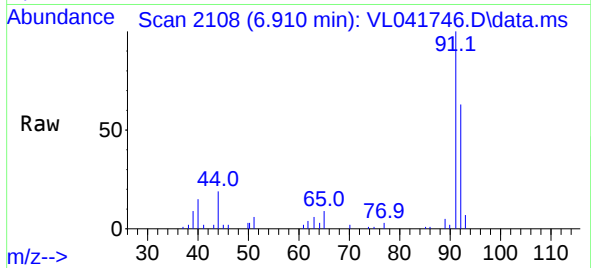




#53
Toluene
Concen: 0.111 ppbv
RT: 6.910 min Scan# 2120
Delta R.T. -0.039 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

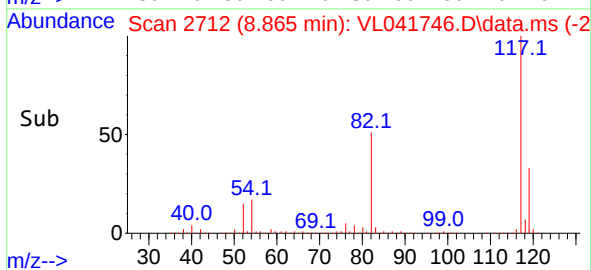
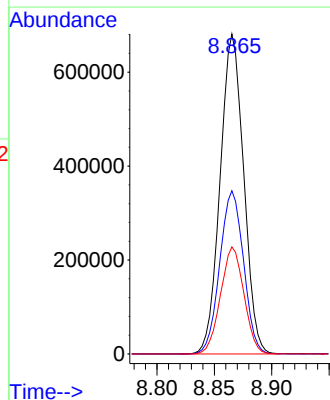
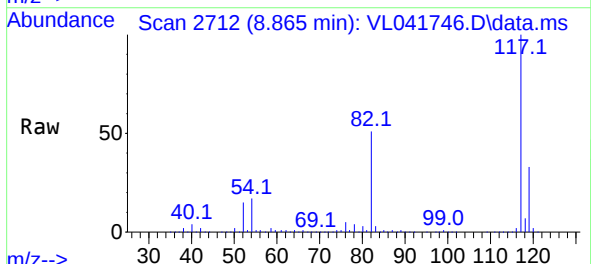
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

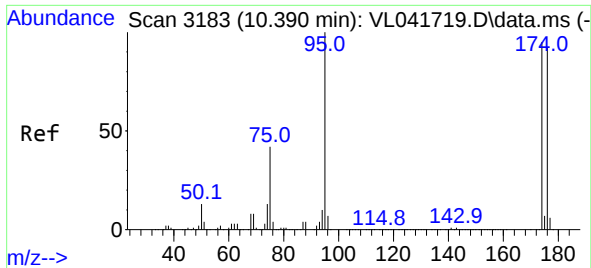
Tgt Ion: 91 Resp: 12027
Ion Ratio Lower Upper
91 100
92 60.1 49.7 74.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.865 min Scan# 2712
Delta R.T. -0.033 min
Lab File: VL041746.D
Acq: 12 Dec 2024 12:06

Tgt Ion: 117 Resp: 972026
Ion Ratio Lower Upper
117 100
82 51.5 41.3 61.9
119 33.3 25.8 38.8

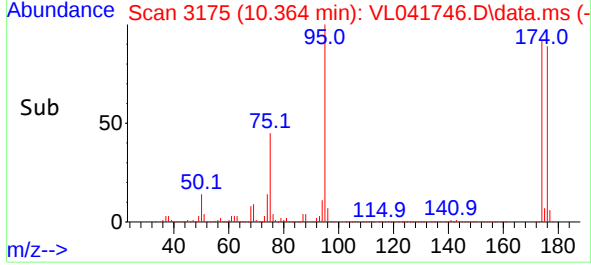
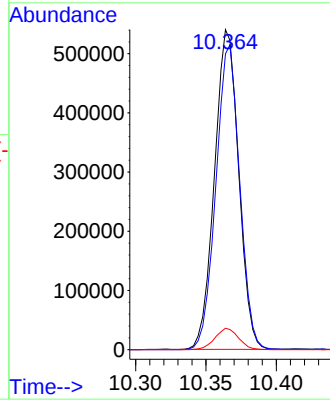
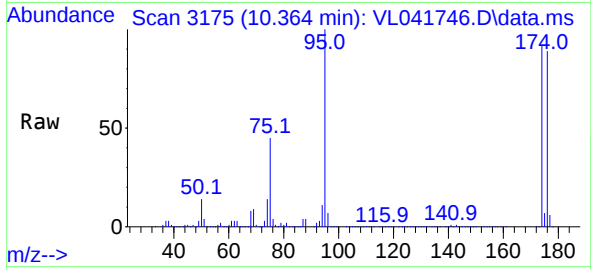




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.125 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.026 min
 Lab File: VL041746.D
 Acq: 12 Dec 2024 12:06

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 95 Resp: 646982
 Ion Ratio Lower Upper
 95 100
 174 94.1 76.7 115.1
 175 6.5 5.4 8.2



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	IA1	SDG No.:	P5150
Lab Sample ID:	P5150-02	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
VL041738.D	1		12/12/24 07:52	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
142-82-5	Heptane	0.24	0.98	J	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.11	0.51	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.29	0.93	J	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.50	1.88		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.060	0.41		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.29	1.26	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	J	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.15	0.74	J	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.79	2.78		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	247000		2.777			
540-36-3	1,4-Difluorobenzene	1200000		3.942			
3114-55-4	Chlorobenzene-d5	1070000		8.869			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041738.D
 Acq On : 12 Dec 2024 07:52
 Operator : SY/MD
 Sample : P5150-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 08:20:28 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 07:13:56 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	246902	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	1201866	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	1066555	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 695618 9.921 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	14129	0.326	ppbv	97
4) Chloromethane	1.528	50	4535	0.394	ppbv #	87
9) Propene	1.479	41	15410m	1.075	ppbv	
10) Heptane	4.962	43	9556	0.241	ppbv	92
11) Trichlorofluoromethane	1.871	101	9173	0.184	ppbv	89
13) Ethanol	1.716	45	247027	208.376	ppbv	95
15) Acetone	1.829	43	182482	6.401	ppbv	97
17) tert-Butyl alcohol	2.039	59	4590	0.111	ppbv #	72
19) Isopropyl Alcohol	1.881	45	53368	1.971	ppbv #	5
20) Methylene Chloride	2.052	84	5904	0.342	ppbv #	83
26) Hexane	2.816	57	30285	0.788	ppbv #	62
29) Chloroform	2.839	83	32688	0.556	ppbv	99
30) Cyclohexane	3.836	84	5346m	0.124	ppbv	
34) 2-Butanone	2.554	43	12460	0.296	ppbv	95
35) Carbon Tetrachloride	3.748	117	3388	0.061	ppbv	95
36) Benzene	3.645	78	27535	0.291	ppbv	98
44) 2,2,4-Trimethylpentane	4.622	57	14813	0.113	ppbv #	55
52) Tetrachloroethene	8.212	164	2785	0.056	ppbv	86
53) Toluene	6.917	91	58195	0.501	ppbv	99
58) Ethyl Benzene	9.344	91	13838	0.097	ppbv	96
59) m/p-Xylene	9.522	91	31184	0.285	ppbv	97
60) o-Xylene	9.956	91	13300	0.123	ppbv	93
73) 1,3,5-Trimethylbenzene	11.199	105	5686	0.050	ppbv	90
74) 1,2,4-Trimethylbenzene	11.532	105	18238	0.148	ppbv #	67

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

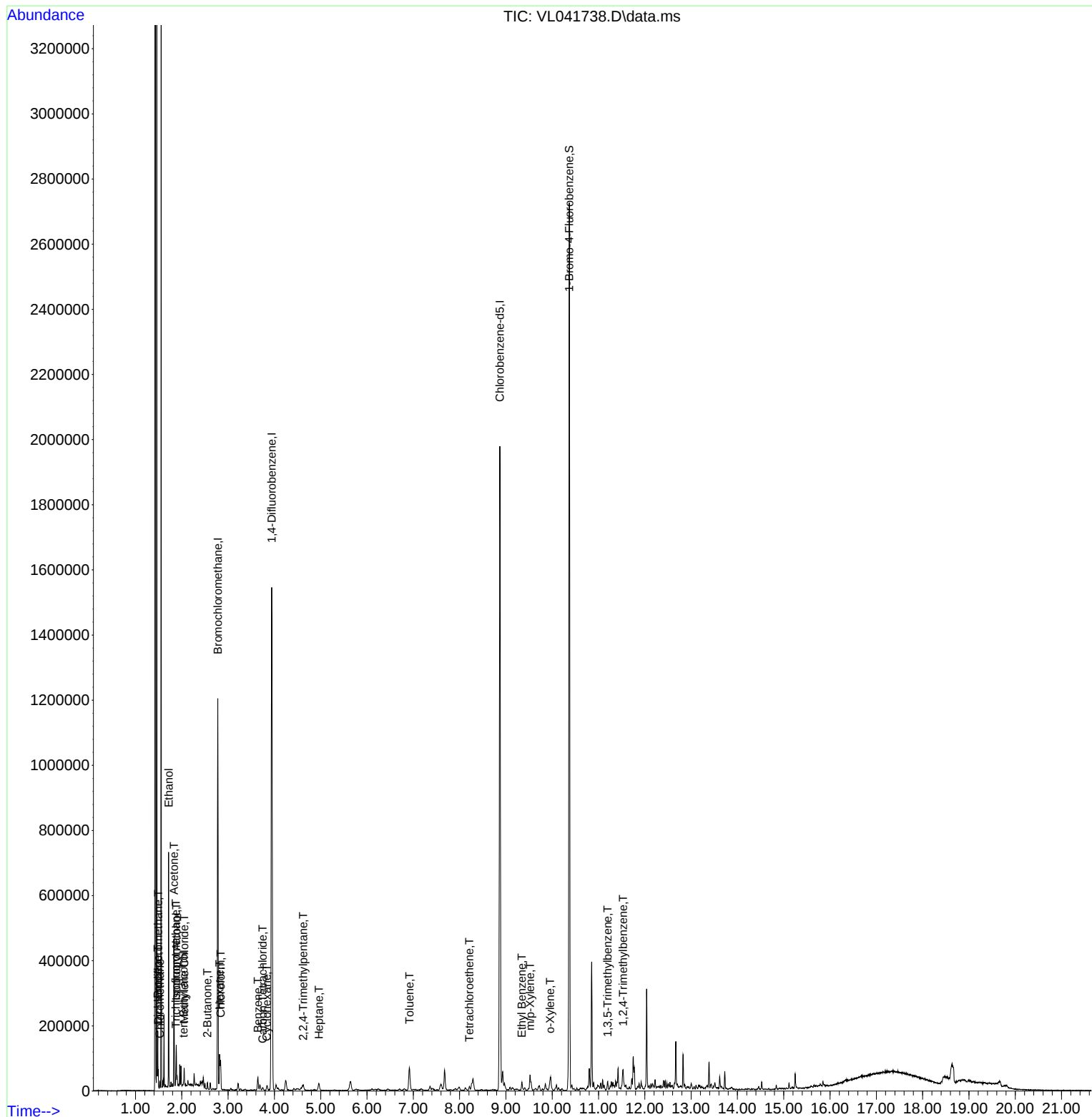
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Data File : VL041738.D
Acq On : 12 Dec 2024 07:52
Operator : SY/MD
Sample : P5150-02
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

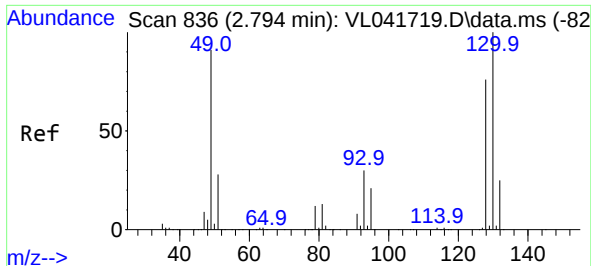
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

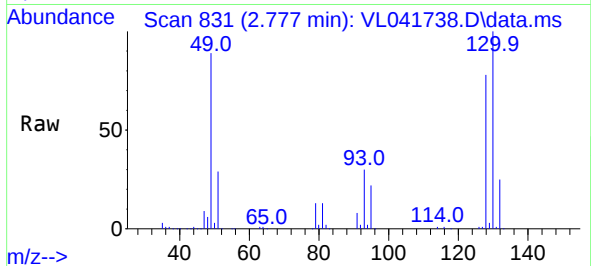
Quant Time: Dec 12 08:20:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 12 07:13:56 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.017 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

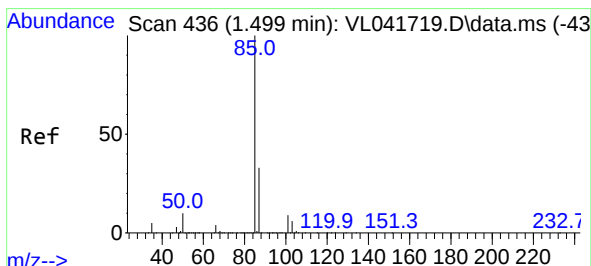
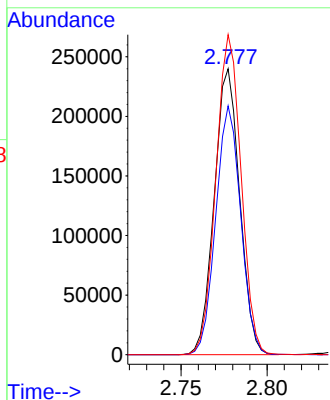
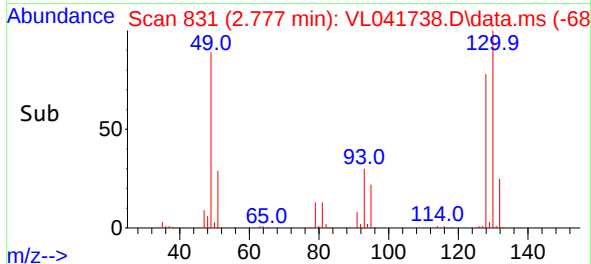
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 246902
Ion Ratio Lower Upper
49 100
128 85.5 42.8 128.3
130 111.0 55.8 167.4

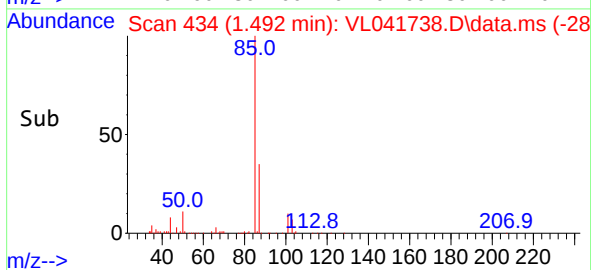
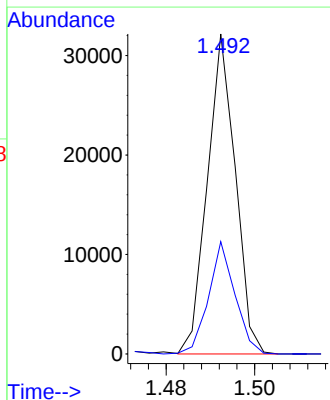
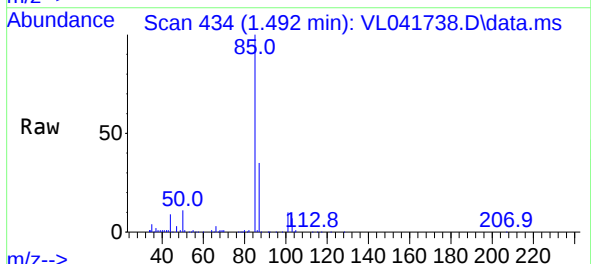
Manual Integrations
APPROVED

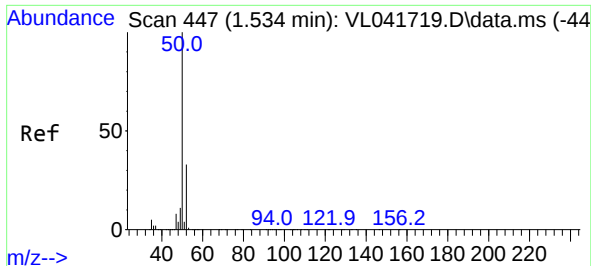
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#2
Dichlorodifluoromethane
Concen: 0.326 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

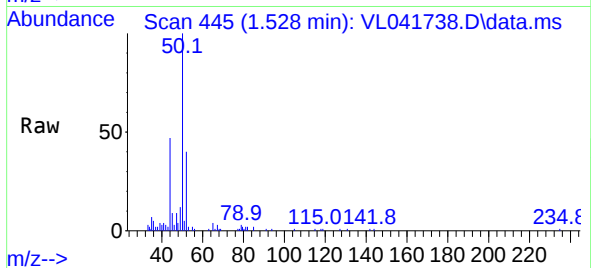
Tgt Ion: 85 Resp: 14129
Ion Ratio Lower Upper
85 100
87 35.1 26.6 39.8





#4
Chloromethane
Concen: 0.394 ppbv
RT: 1.528 min Scan# 447
Delta R.T. -0.007 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

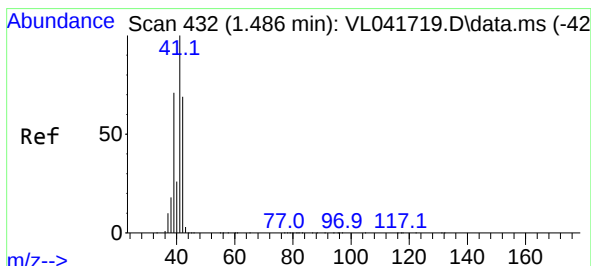
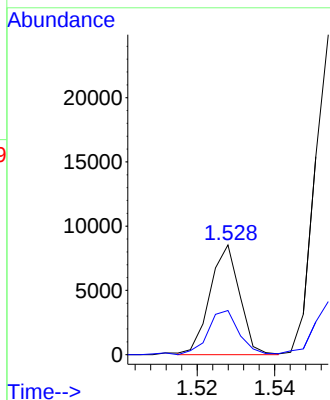
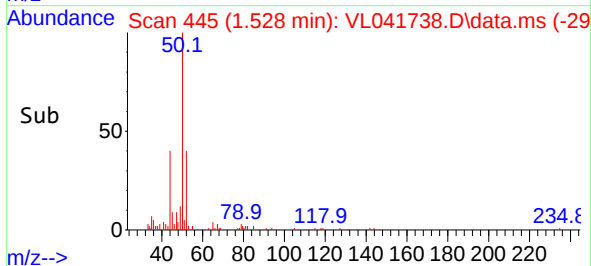
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 50 Resp: 4538
Ion Ratio Lower Upper
50 100
52 40.5 26.6 40.0

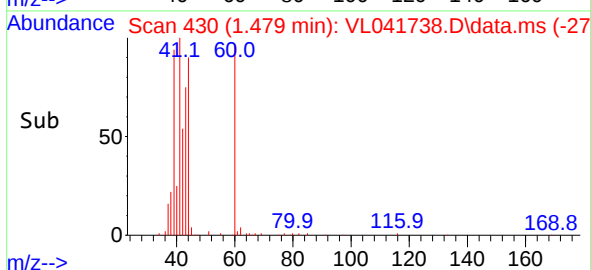
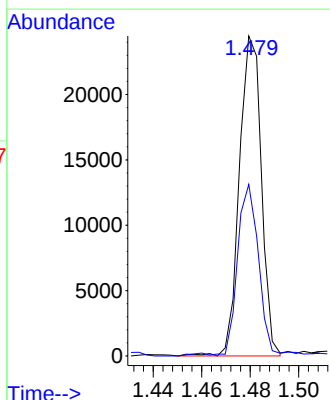
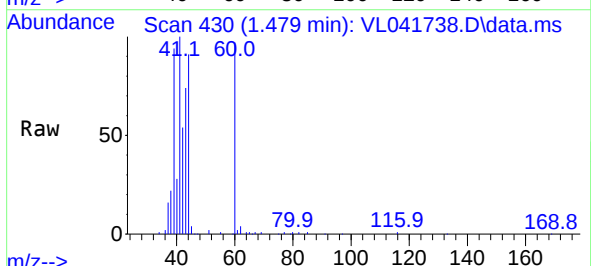
Manual Integrations
APPROVED

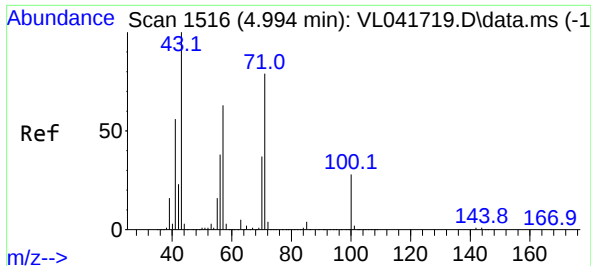
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#9
Propene
Concen: 1.075 ppbv m
RT: 1.479 min Scan# 430
Delta R.T. -0.007 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

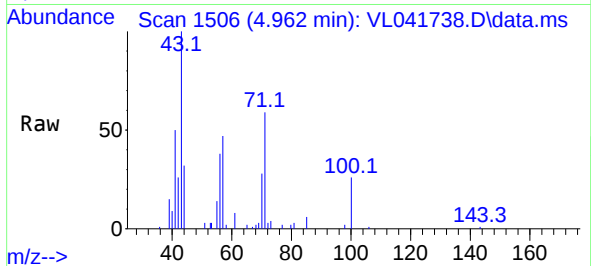
Tgt Ion: 41 Resp: 15410
Ion Ratio Lower Upper
41 100
42 1977.0 56.2 84.4





#10
Heptane
Concen: 0.241 ppbv
RT: 4.962 min Scan# 11
Delta R.T. -0.032 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

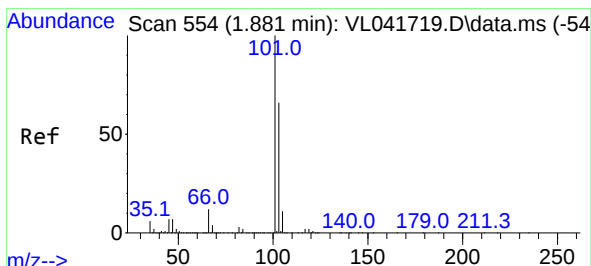
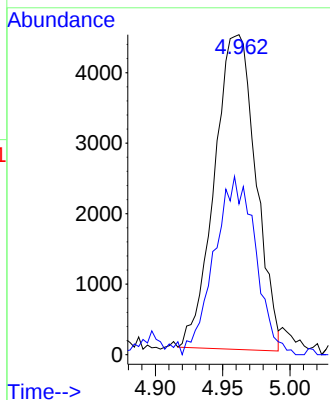
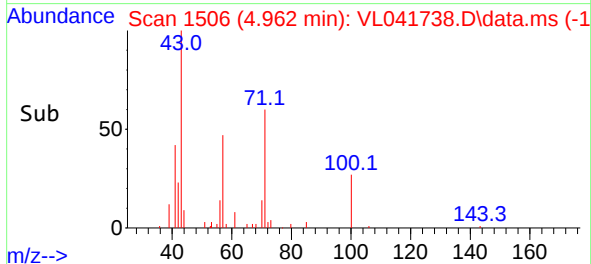
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 955
Ion Ratio Lower Upper
43 100
57 56.8 50.5 75.7

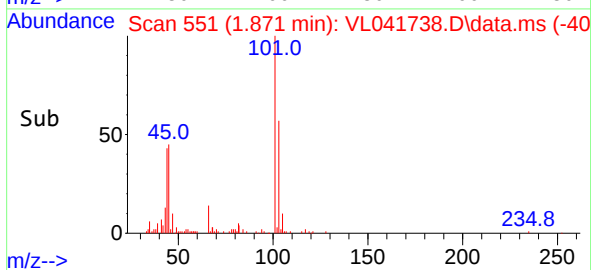
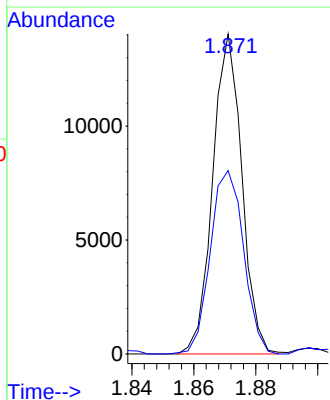
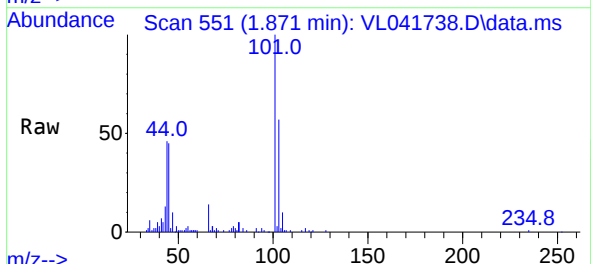
Manual Integrations
APPROVED

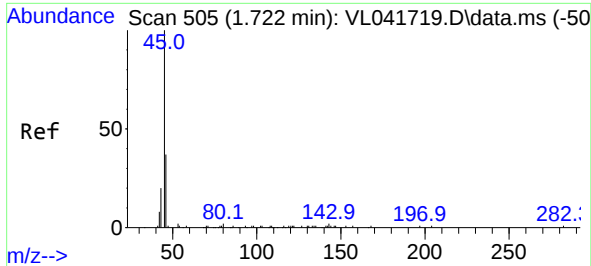
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#11
Trichlorofluoromethane
Concen: 0.184 ppbv
RT: 1.871 min Scan# 551
Delta R.T. -0.010 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

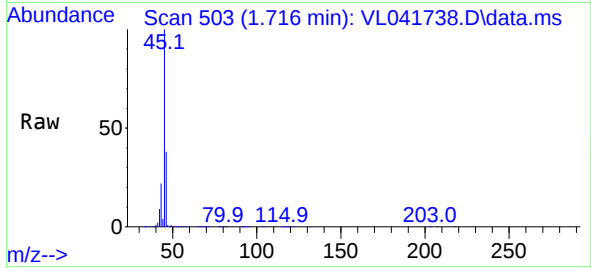
Tgt Ion:101 Resp: 9173
Ion Ratio Lower Upper
101 100
103 57.3 52.7 79.1





#13
Ethanol
Concen: 208.376 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.007 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

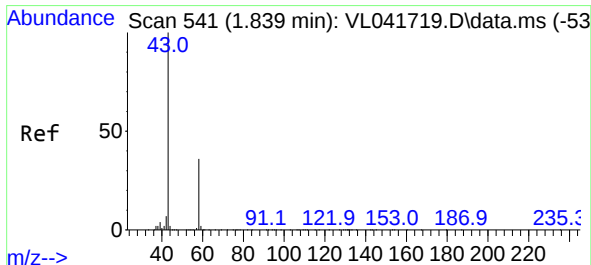
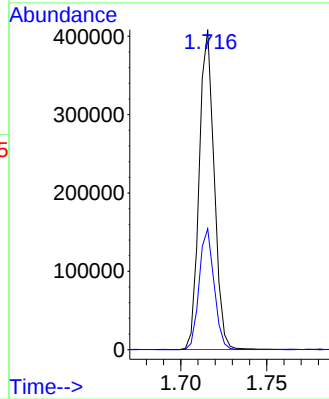
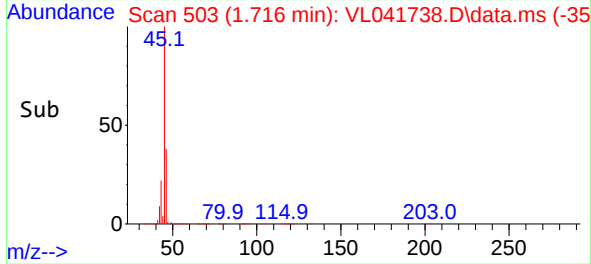
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 24702
Ion Ratio Lower Upper
45 100
46 38.1 16.6 66.6

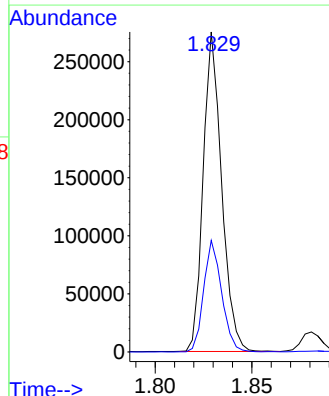
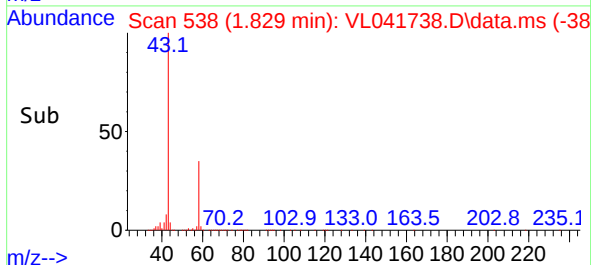
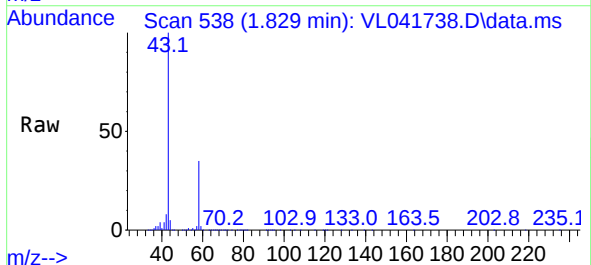
Manual Integrations
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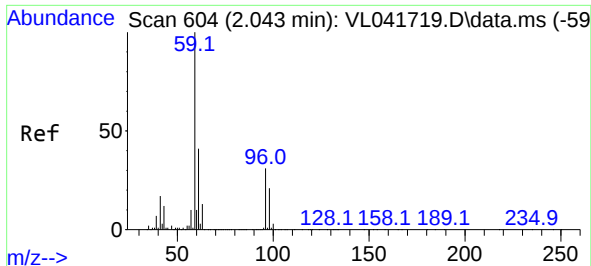
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#15
Acetone
Concen: 6.401 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.010 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

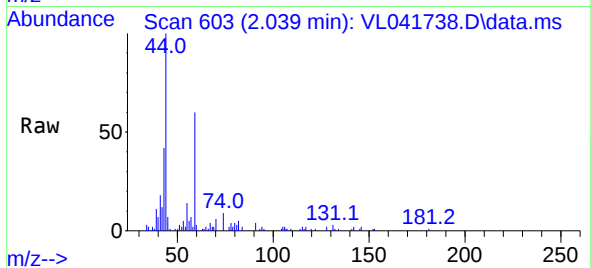
Tgt Ion: 43 Resp: 182482
Ion Ratio Lower Upper
43 100
58 34.2 28.9 43.3





#17
tert-Butyl alcohol
Concen: 0.111 ppbv
RT: 2.039 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

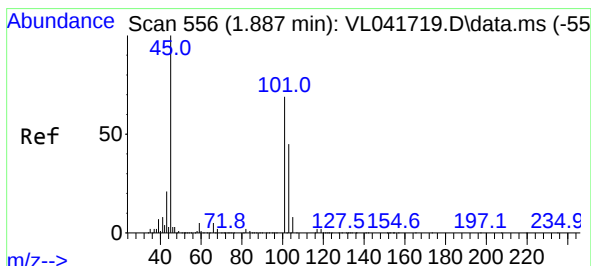
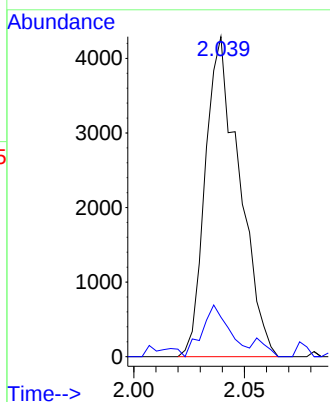
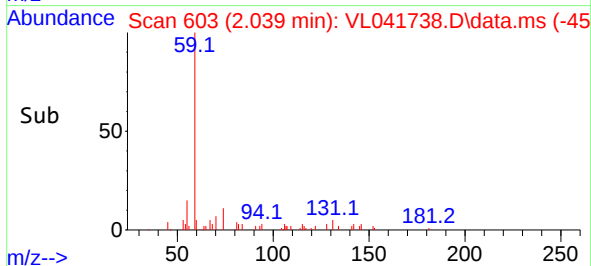
Instrument :
MSVOA_L
ClientSampleId :
IA1



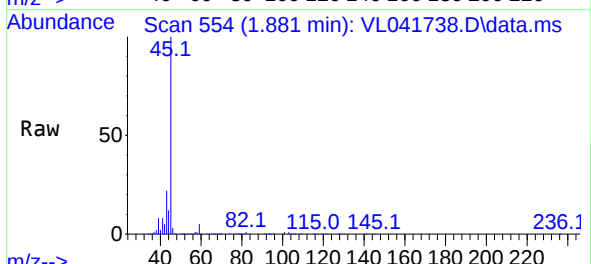
Tgt Ion: 59 Resp: 4590
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4

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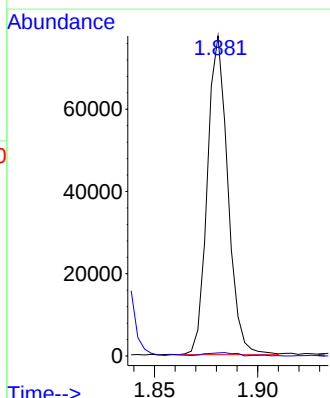
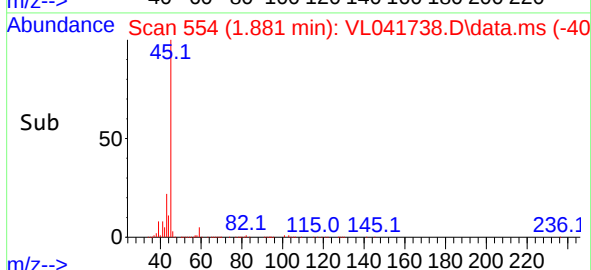
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

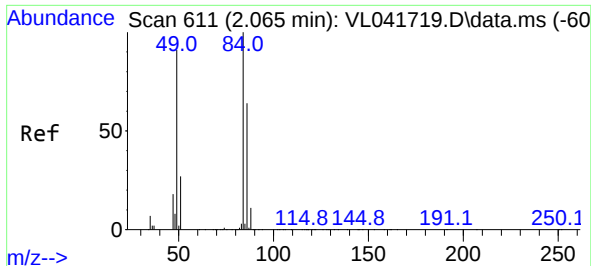


#19
Isopropyl Alcohol
Concen: 1.971 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.007 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52



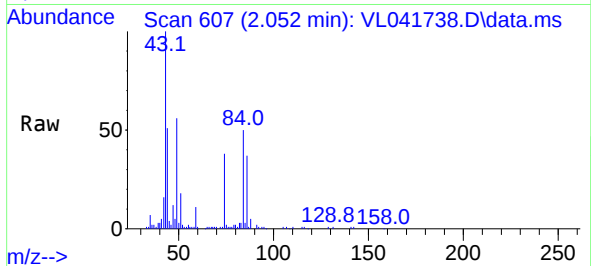
Tgt Ion: 45 Resp: 53368
Ion Ratio Lower Upper
45 100
58 116.9 40.6 61.0





#20
Methylene Chloride
Concen: 0.342 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

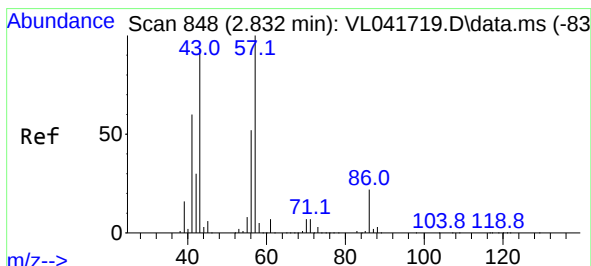
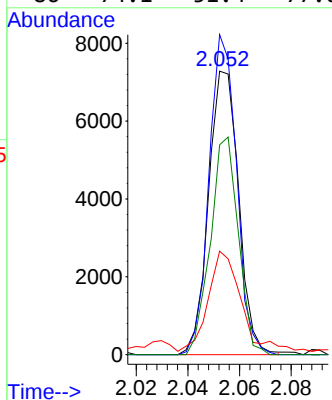
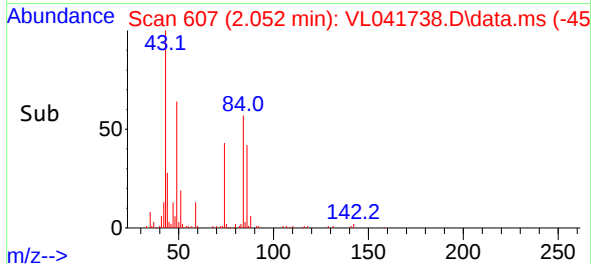
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 5904
Ion Ratio Lower Upper
84 100
49 112.9 73.6 110.4
51 35.3 22.7 34.1
86 74.1 51.4 77.0

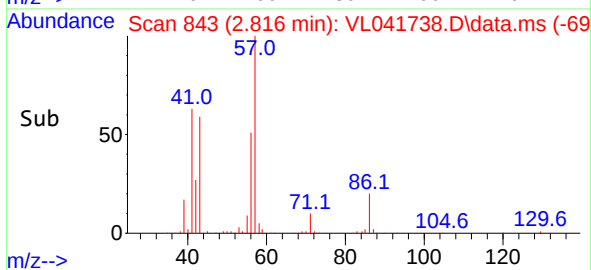
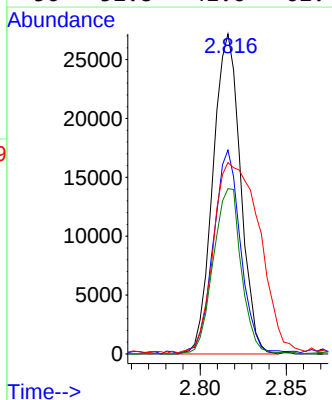
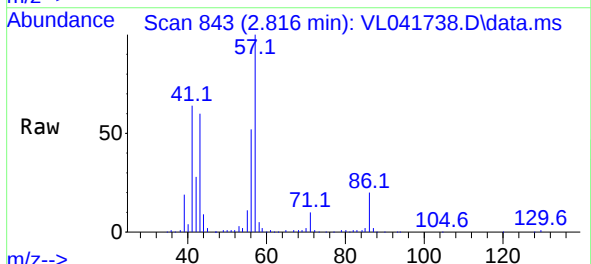
Manual Integrations
APPROVED

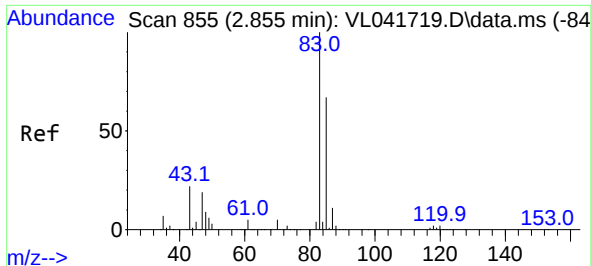
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#26
Hexane
Concen: 0.788 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.016 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

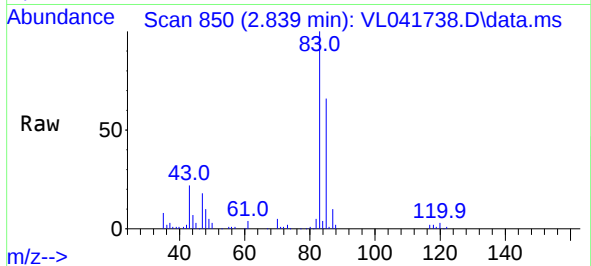
Tgt Ion: 57 Resp: 30285
Ion Ratio Lower Upper
57 100
41 61.3 49.5 74.3
43 98.9 150.6 225.8
56 52.8 41.6 62.4





#29
Chloroform
Concen: 0.556 ppbv
RT: 2.839 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

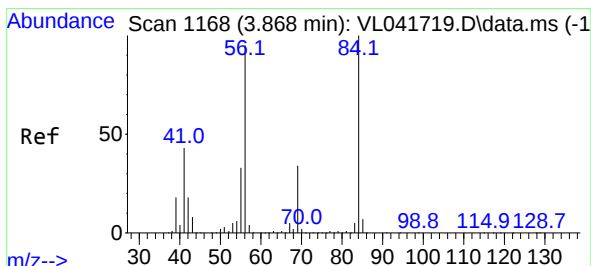
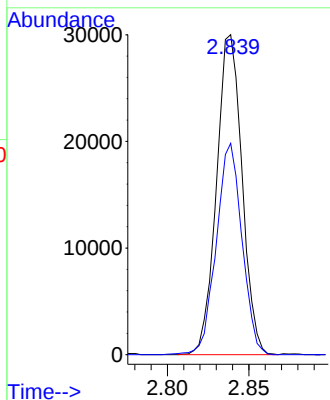
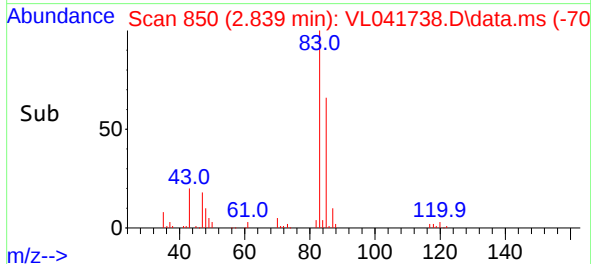
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 83 Resp: 3268
Ion Ratio Lower Upper
83 100
85 66.0 53.6 80.4

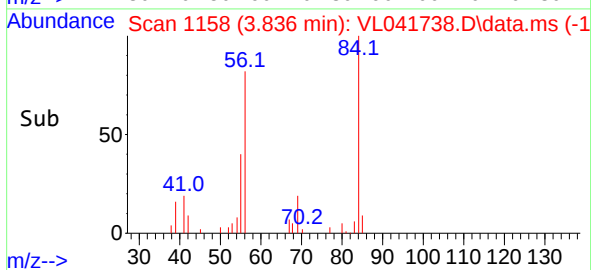
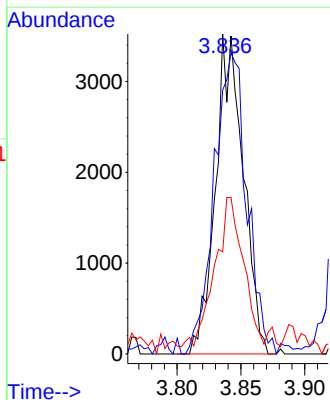
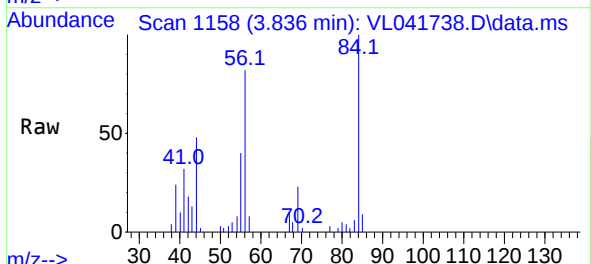
Manual Integrations
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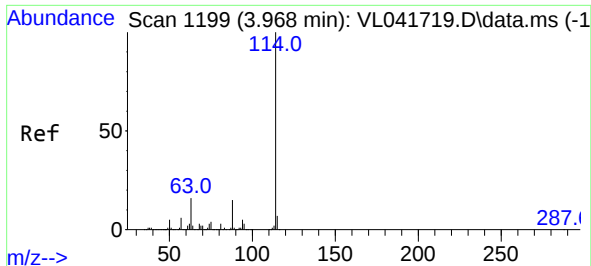
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#30
Cyclohexane
Concen: 0.124 ppbv m
RT: 3.836 min Scan# 1158
Delta R.T. -0.032 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

Tgt Ion: 84 Resp: 5346
Ion Ratio Lower Upper
84 100
56 111.3 76.0 114.0
41 58.4 34.2 51.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.942 min Scan# 1191

Delta R.T. -0.026 min

Lab File: VL041738.D

Acq: 12 Dec 2024 07:52

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion:114 Resp: 1201860

Ion Ratio Lower Upper

114 100

63 16.1 12.9 19.3

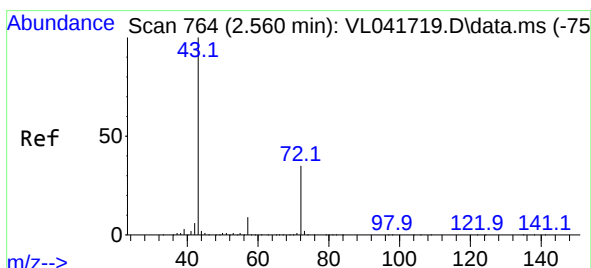
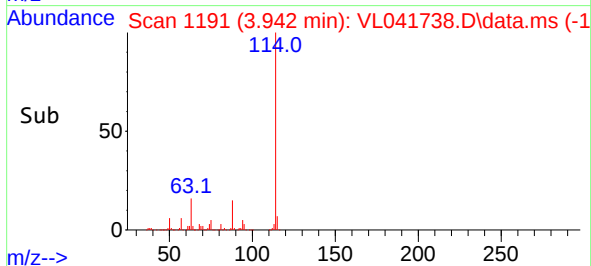
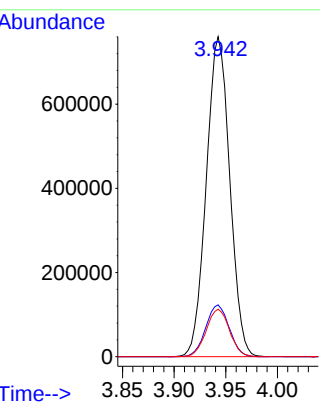
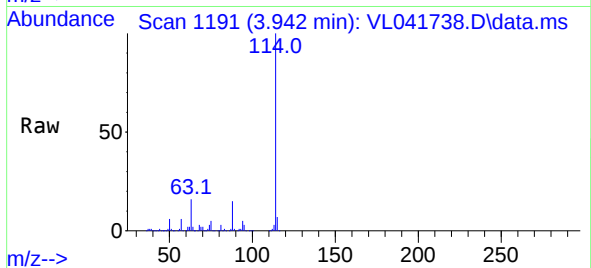
88 14.8 11.8 17.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#34

2-Butanone

Concen: 0.296 ppbv

RT: 2.554 min Scan# 762

Delta R.T. -0.007 min

Lab File: VL041738.D

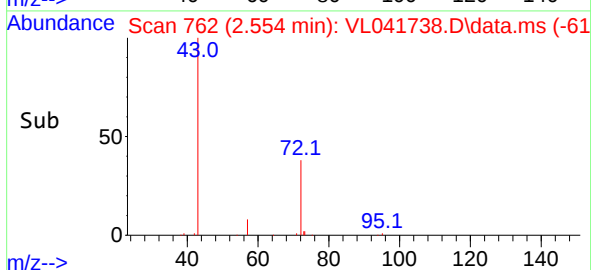
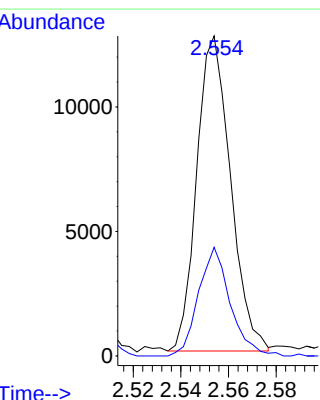
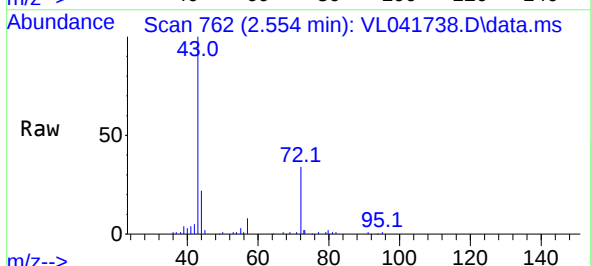
Acq: 12 Dec 2024 07:52

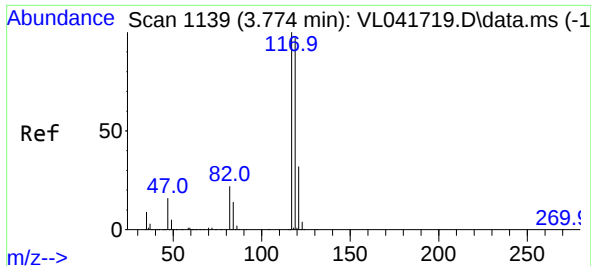
Tgt Ion: 43 Resp: 12460

Ion Ratio Lower Upper

43 100

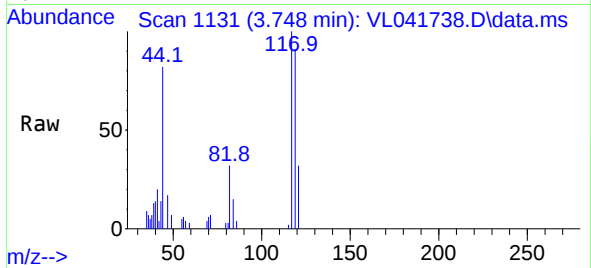
72 32.5 28.3 42.5





#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 3.748 min Scan# 1139
Delta R.T. -0.026 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

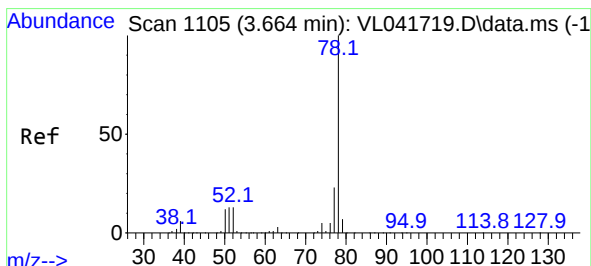
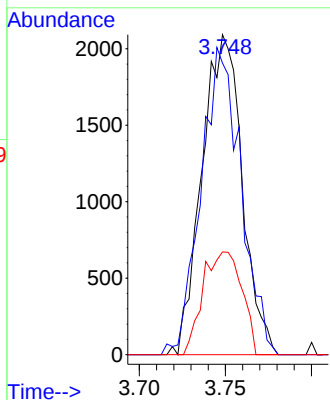
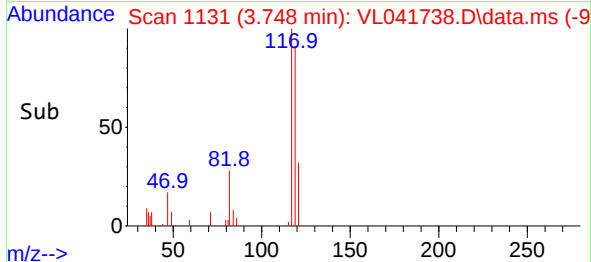
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 117 Resp: 338
Ion Ratio Lower Upper
117 100
119 91.1 77.7 116.5
121 32.1 25.5 38.3

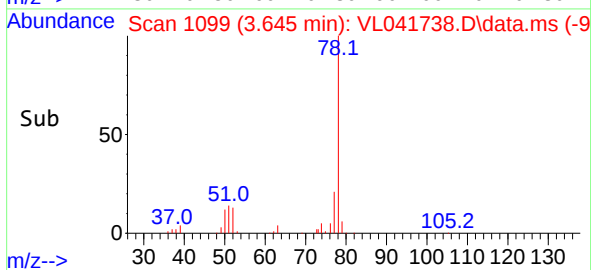
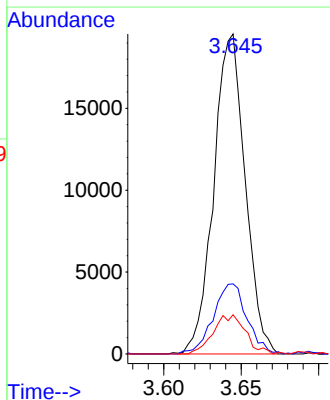
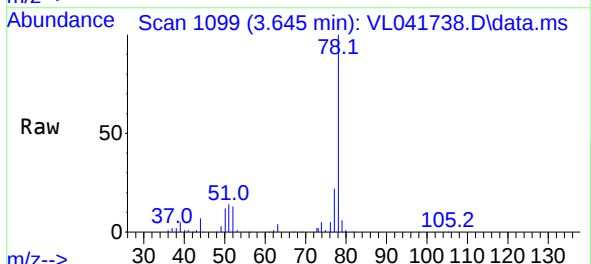
Manual Integrations
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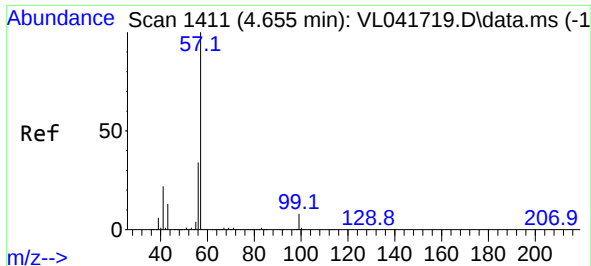
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#36
Benzene
Concen: 0.291 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.019 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

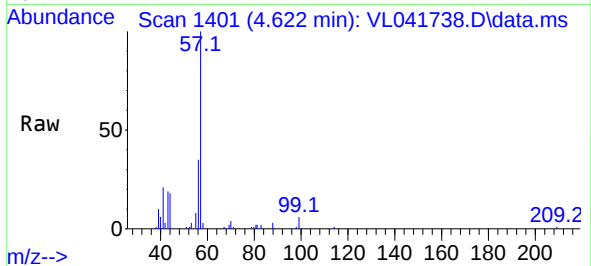
Tgt Ion: 78 Resp: 27535
Ion Ratio Lower Upper
78 100
77 21.9 18.6 27.8
50 12.2 9.5 14.3





#44
2,2,4-Trimethylpentane
Concen: 0.113 ppbv
RT: 4.622 min Scan# 1411
Delta R.T. -0.032 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

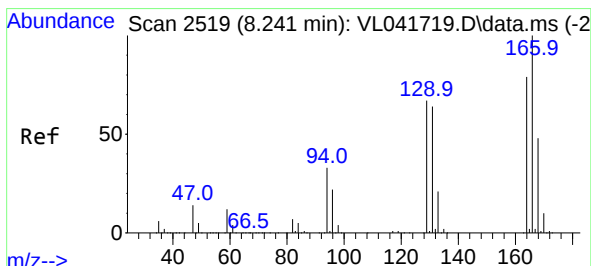
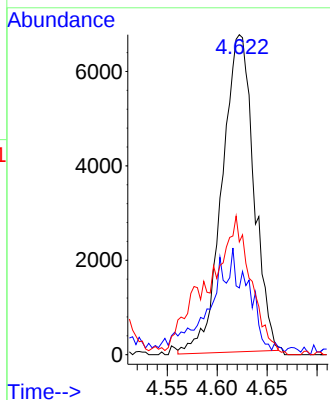
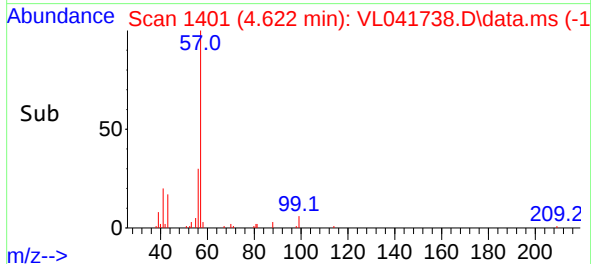
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 1481
Ion Ratio Lower Upper
57 100
41 40.3 17.2 25.8
56 60.8 26.6 40.0

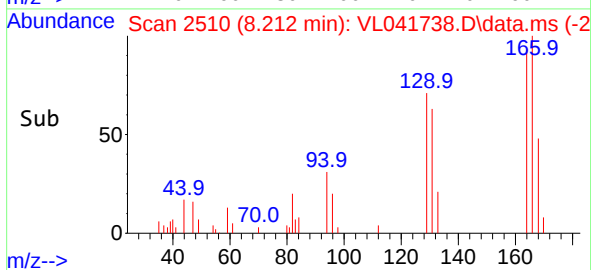
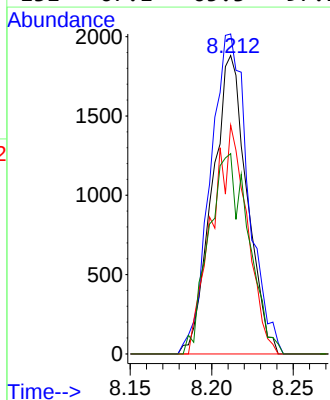
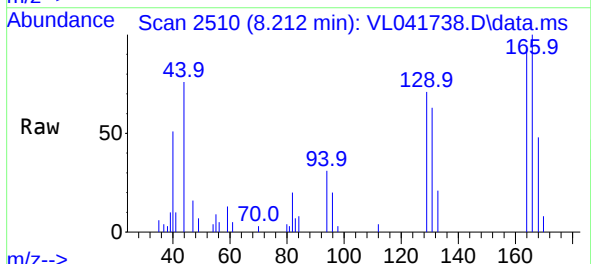
Manual Integrations
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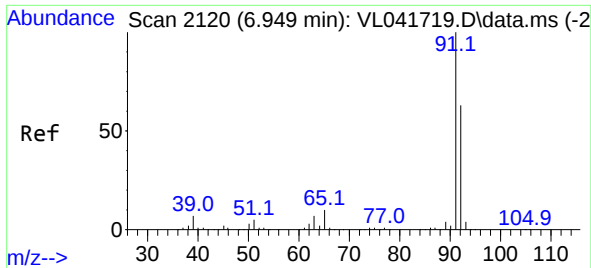
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#52
Tetrachloroethene
Concen: 0.056 ppbv
RT: 8.212 min Scan# 2510
Delta R.T. -0.029 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

Tgt Ion:164 Resp: 2785
Ion Ratio Lower Upper
164 100
166 107.2 101.4 152.0
129 76.7 67.6 101.4
131 67.1 65.3 97.9





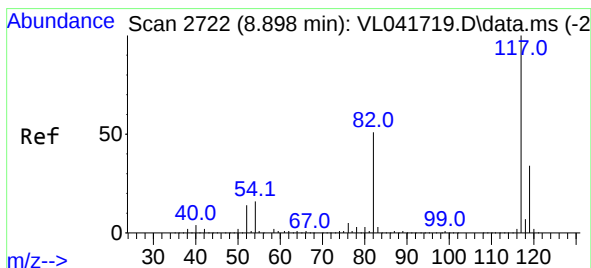
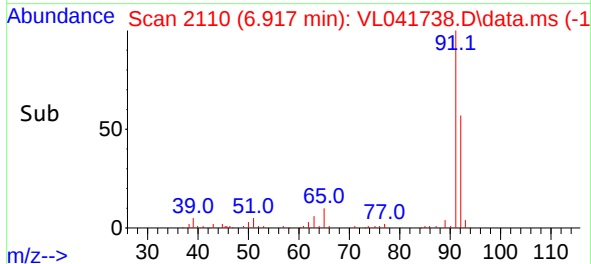
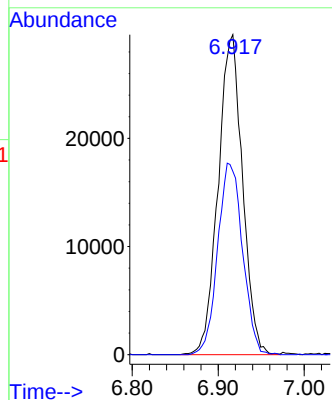
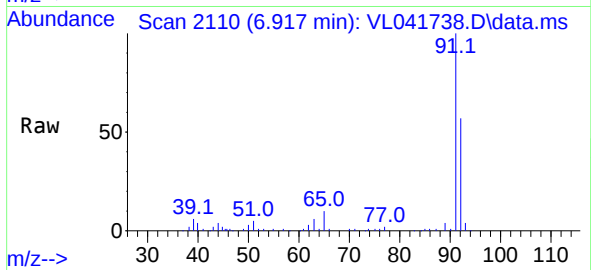
#53
Toluene
Concen: 0.501 ppbv
RT: 6.917 min Scan# 2110
Delta R.T. -0.032 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 5819
Ion Ratio Lower Upper
91 100
92 61.2 49.7 74.5

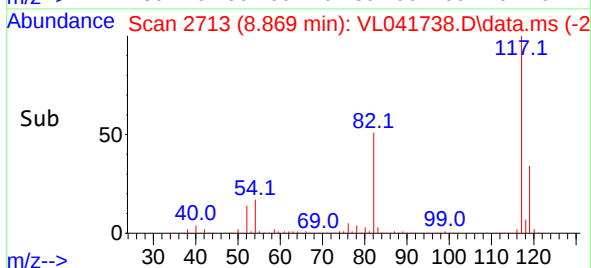
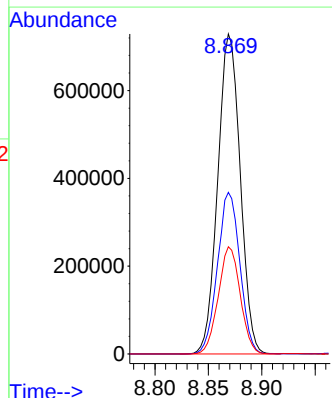
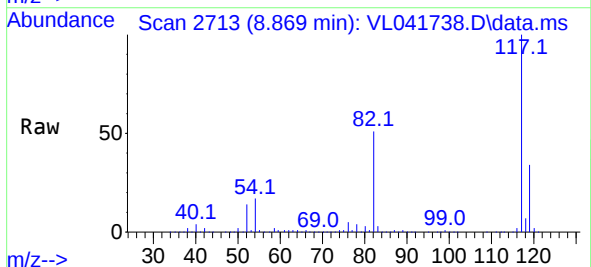
Manual Integrations
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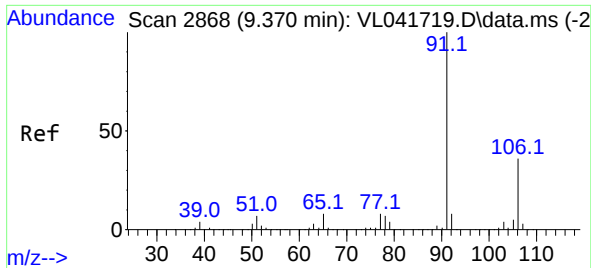
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2713
Delta R.T. -0.029 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

Tgt Ion:117 Resp: 1066555
Ion Ratio Lower Upper
117 100
82 50.4 41.3 61.9
119 32.9 25.8 38.8





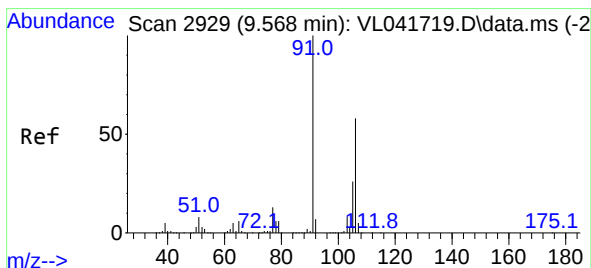
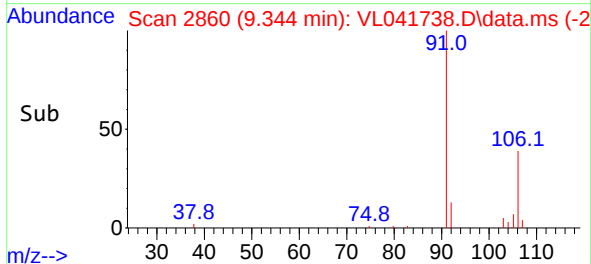
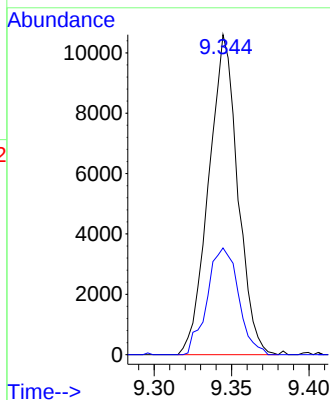
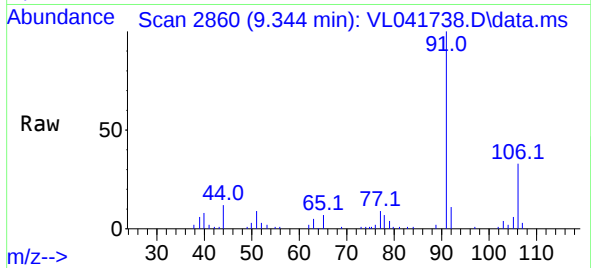
#58
Ethyl Benzene
Concen: 0.097 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.026 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 13838
Ion Ratio Lower Upper
91 100
106 33.4 28.6 43.0

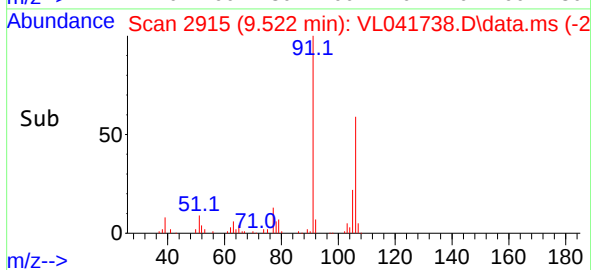
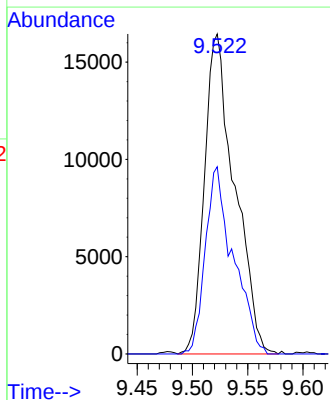
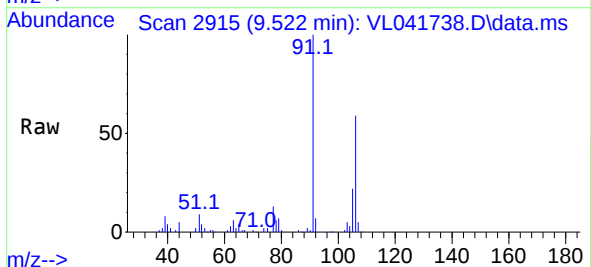
Manual Integrations
APPROVED

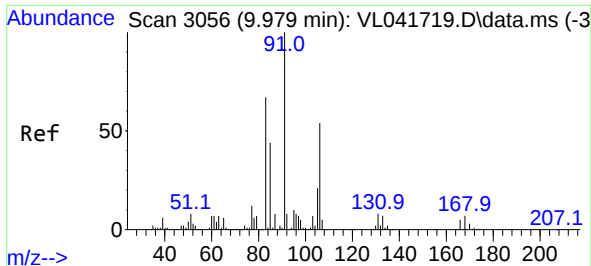
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#59
m/p-Xylene
Concen: 0.285 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.045 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

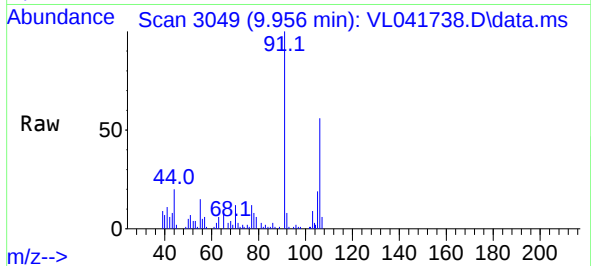
Tgt Ion: 91 Resp: 31184
Ion Ratio Lower Upper
91 100
106 54.2 45.1 67.7





#60
o-Xylene
Concen: 0.123 ppbv
RT: 9.956 min Scan# 3056
Delta R.T. -0.023 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

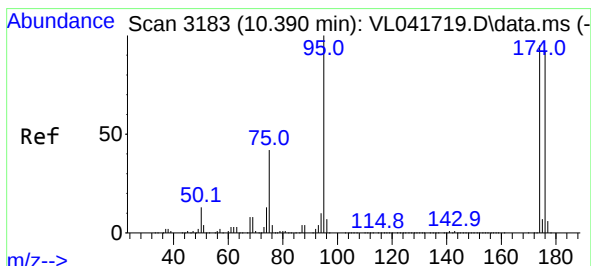
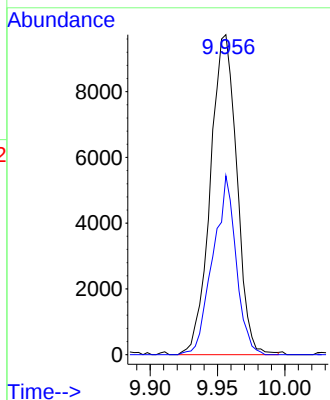
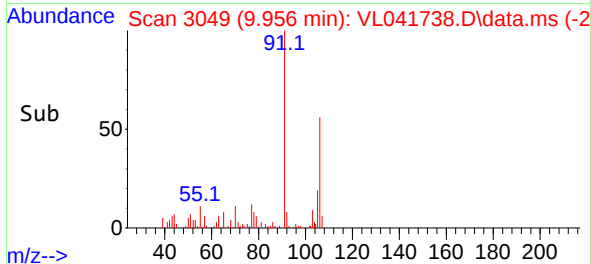
Instrument :
MSVOA_L
ClientSampleId :
IA1



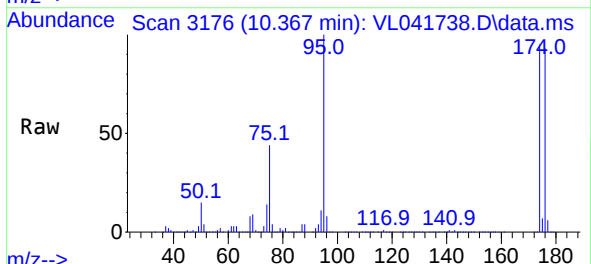
Tgt Ion: 91 Resp: 13300
Ion Ratio Lower Upper
91 100
106 48.9 26.8 80.4

Manual Integrations
APPROVED

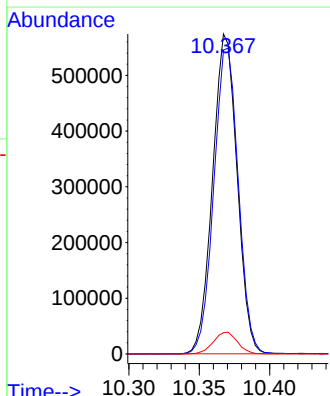
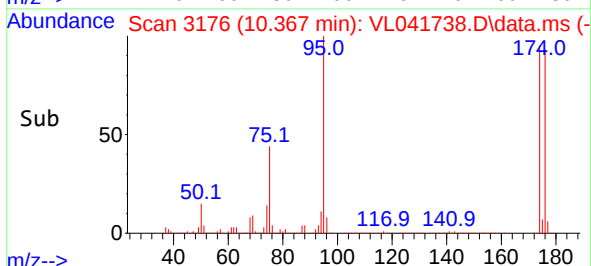
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

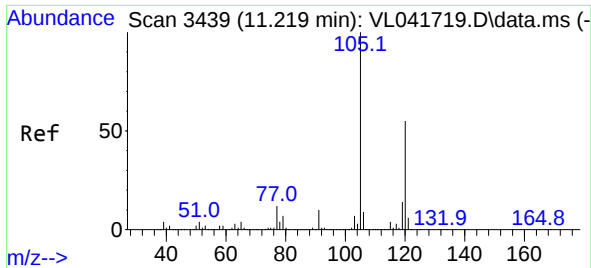


#68
1-Bromo-4-Fluorobenzene
Concen: 9.921 ppbv
RT: 10.367 min Scan# 3176
Delta R.T. -0.023 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52



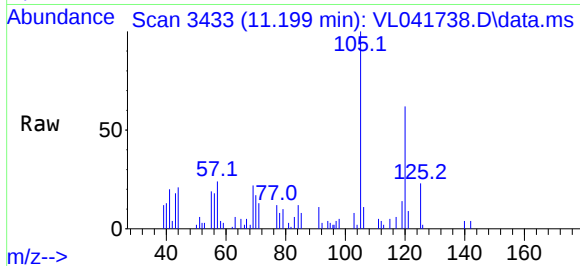
Tgt Ion: 95 Resp: 695618
Ion Ratio Lower Upper
95 100
174 95.9 76.7 115.1
175 6.7 5.4 8.2





#73
1,3,5-Trimethylbenzene
Concen: 0.050 ppbv
RT: 11.199 min Scan# 3439
Delta R.T. -0.019 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52

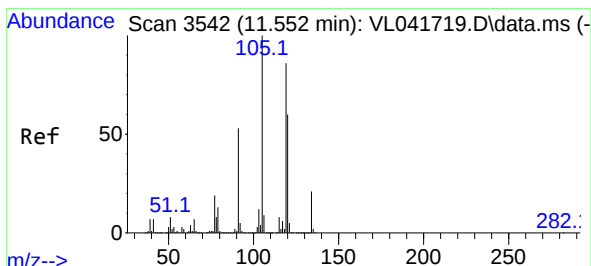
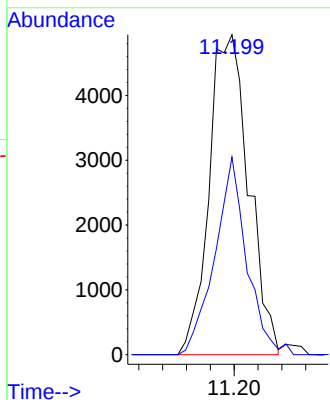
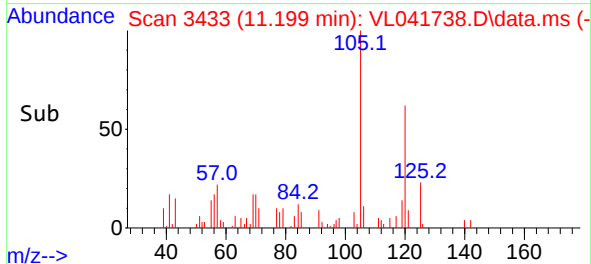
Instrument :
MSVOA_L
ClientSampleId :
IA1



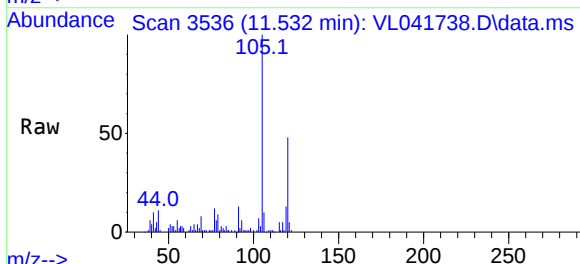
Tgt Ion:105 Resp: 5680
Ion Ratio Lower Upper
105 100
120 61.7 43.6 65.4

Manual Integrations
APPROVED

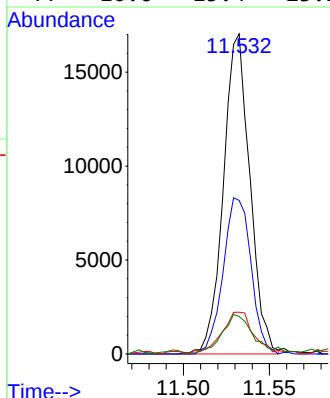
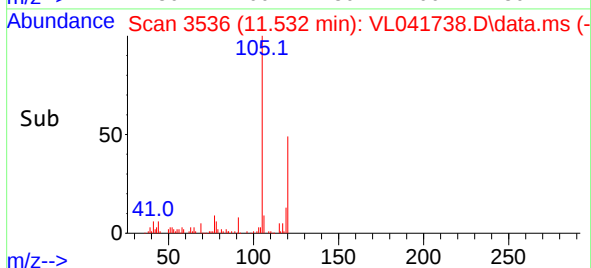
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#74
1,2,4-Trimethylbenzene
Concen: 0.148 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.019 min
Lab File: VL041738.D
Acq: 12 Dec 2024 07:52



Tgt Ion:105 Resp: 18238
Ion Ratio Lower Upper
105 100
120 48.0 47.8 71.6
91 12.3 42.5 63.7#
77 10.6 15.4 23.2#



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	SV3	SDG No.:	P5150
Lab Sample ID:	P5150-03	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
VL041742.D	4		12/12/24 10:01	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	18.5	75.8		1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	10.3	35.5		3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	13.7	54.3		1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	3.20	10.2		1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	7.20	38.7		0.38	0.64	ug/m3
108-88-3	Toluene	17.2	64.8		1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	130	882	E	0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	7.00	30.4		2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	15.5	67.3		3.65	17.4	ug/m3
95-47-6	o-Xylene	7.00	30.4		2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.40	21.6		2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.40	36.4		1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	29.0	102		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.4			65 - 135	104%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	241000			2.771		
540-36-3	1,4-Difluorobenzene	1160000			3.936		
3114-55-4	Chlorobenzene-d5	1050000			8.862		

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\VL121124\
 Data File : VL041742.D
 Acq On : 12 Dec 2024 10:01
 Operator : SY/MD
 Sample : P5150-03 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 15:00:40 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	241459	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.936	114	1158894	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.862	117	1050344	10.000	ppbv	-0.04

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 714825 10.352 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.489	85	5389	0.127	ppbv	100
3) Chlorodifluoromethane	1.466	51	5091	0.155	ppbv	93
4) Chloromethane	1.525	50	1343	0.119	ppbv	99
9) Propene	1.476	41	12599	0.899	ppbv	92
10) Heptane	4.952	43	178890	4.617	ppbv	99
13) Ethanol	1.712	45	10559	9.108	ppbv	98
15) Acetone	1.826	43	108547	3.894	ppbv	90
19) Isopropyl Alcohol	1.874	45	10836	0.409	ppbv #	1
20) Methylene Chloride	2.052	84	2800	0.166	ppbv	98
26) Hexane	2.809	57	272822	7.260	ppbv #	42
27) Carbon Disulfide	2.140	76	6472	0.167	ppbv #	1
29) Chloroform	2.832	83	6898	0.120	ppbv	98
30) Cyclohexane	3.836	84	108545	2.572	ppbv	97
31) cis-1,2-Dichloroethene	2.706	61	119028	3.419	ppbv	96
34) 2-Butanone	2.544	43	88590	2.183	ppbv	98
35) Carbon Tetrachloride	3.745	117	4717m	0.087	ppbv	
36) Benzene	3.638	78	71634	0.786	ppbv	94
38) Trichloroethene	4.522	130	84403	1.786	ppbv	97
41) Tetrahydrofuran	3.043	42	35413	1.448	ppbv	97
52) Tetrachloroethene	8.205	164	1512748	31.335	ppbv	99
53) Toluene	6.907	91	482777	4.311	ppbv	99
58) Ethyl Benzene	9.338	91	245019	1.743	ppbv	99
59) m/p-Xylene	9.516	91	417826	3.879	ppbv	98
60) o-Xylene	9.950	91	185505	1.737	ppbv	95
62) Isopropylbenzene	10.526	105	95859	0.544	ppbv	97
64) n-propylbenzene	10.979	120	51926	1.001	ppbv	80
69) p-Isopropyltoluene	11.917	119	39196	0.210	ppbv	96
72) 4-Ethyltoluene	11.115	105	111056m	0.805	ppbv	
73) 1,3,5-Trimethylbenzene	11.192	105	121827	1.092	ppbv	97
74) 1,2,4-Trimethylbenzene	11.529	105	224166	1.848	ppbv #	67

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

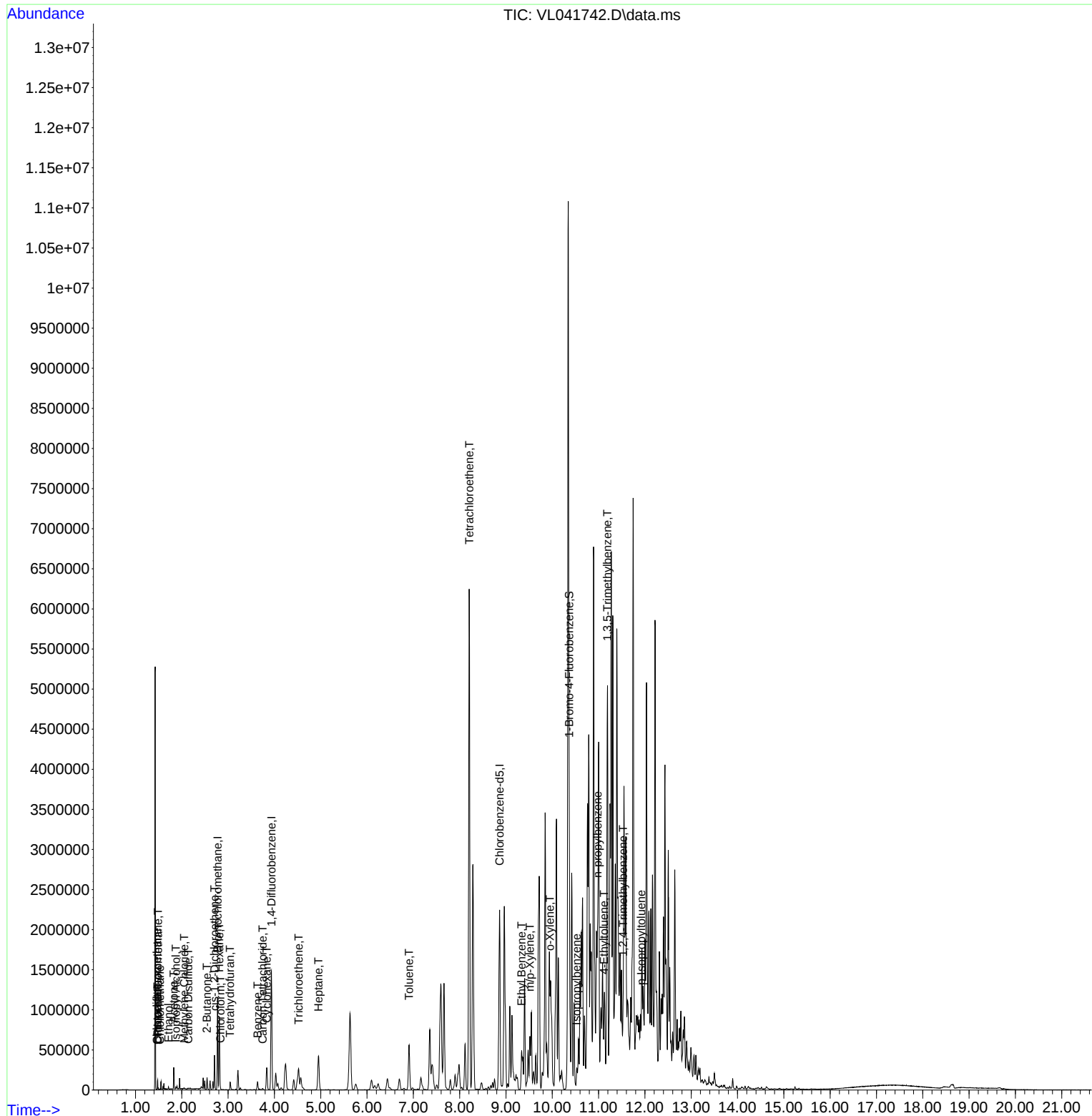
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041742.D
Acq On : 12 Dec 2024 10:01
Operator : SY/MD
Sample : P5150-03 4X
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

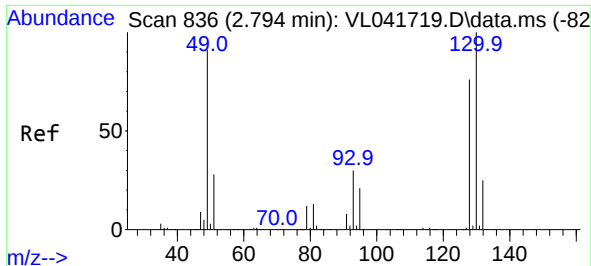
Instrument :
MSVOA_L
ClientSampleId :
SV3

Quant Time: Dec 12 15:00:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

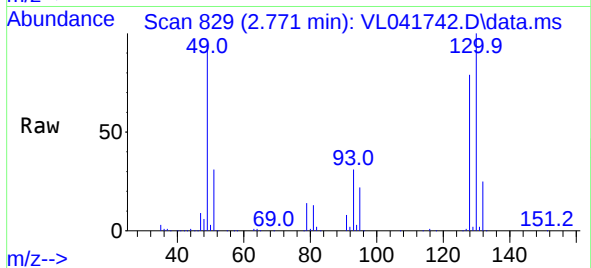
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.771 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

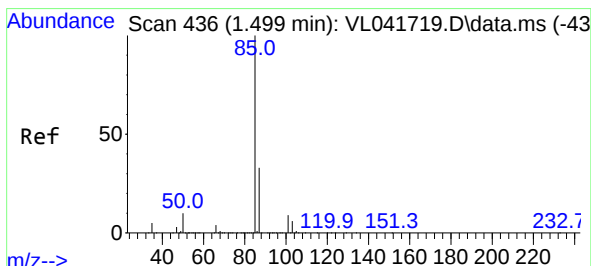
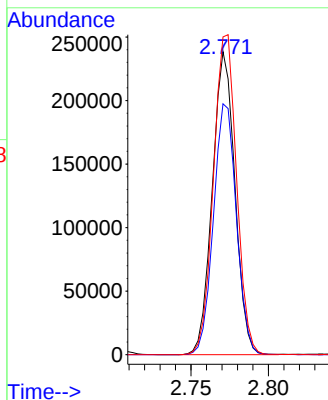
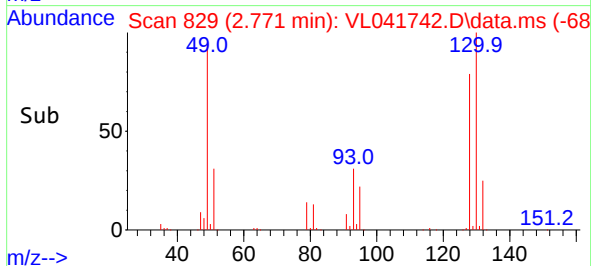
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 49 Resp: 241459
Ion Ratio Lower Upper
49 100
128 84.2 42.8 128.3
130 108.2 55.8 167.4

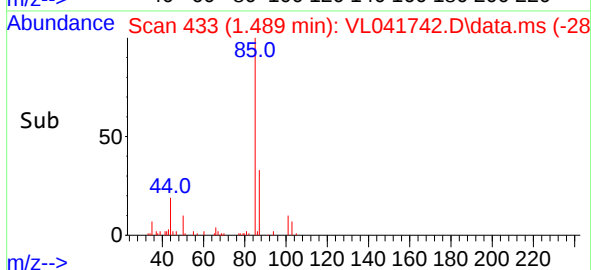
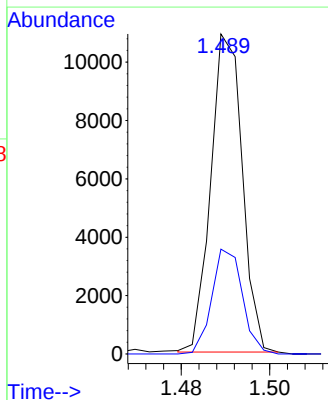
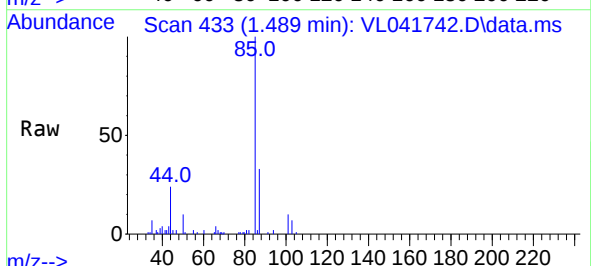
Manual Integrations
APPROVED

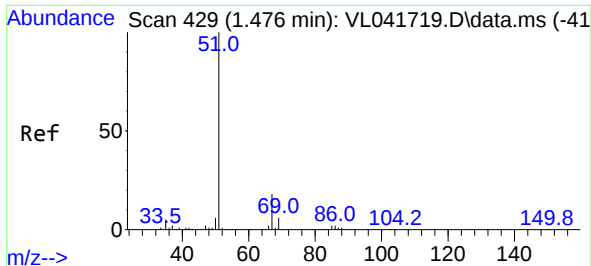
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#2
Dichlorodifluoromethane
Concen: 0.127 ppbv
RT: 1.489 min Scan# 433
Delta R.T. -0.010 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

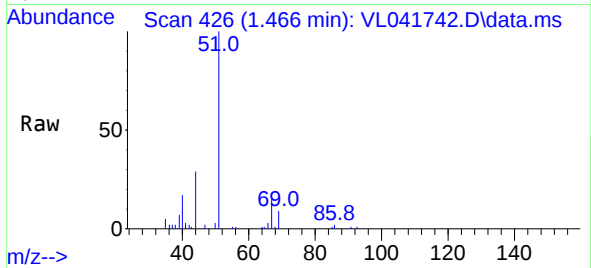
Tgt Ion: 85 Resp: 5389
Ion Ratio Lower Upper
85 100
87 32.9 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.155 ppbv
RT: 1.466 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

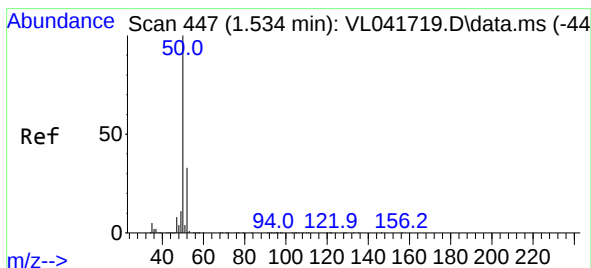
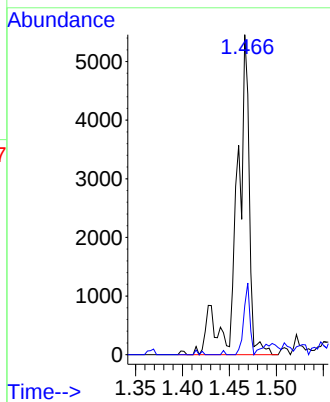
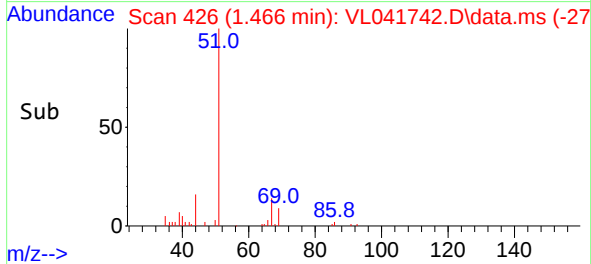
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 51 Resp: 509
Ion Ratio Lower Upper
51 100
67 15.1 14.6 21.8

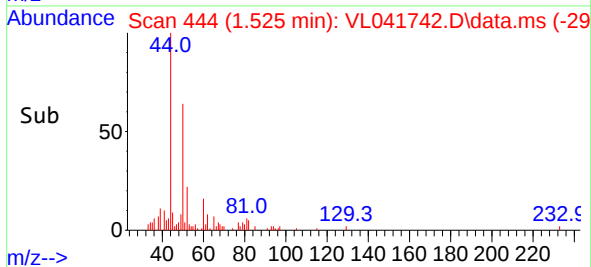
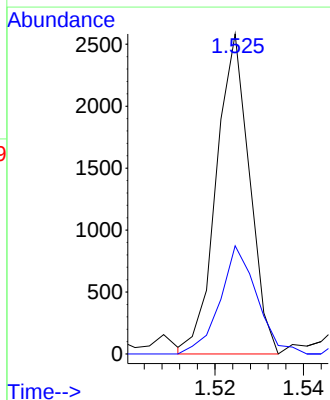
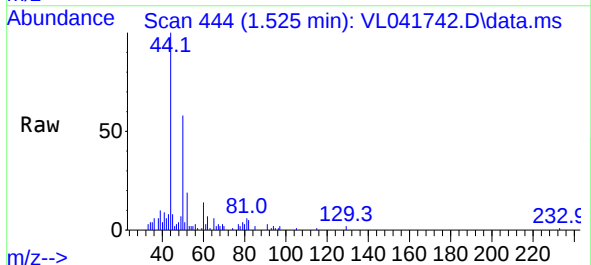
Manual Integrations
APPROVED

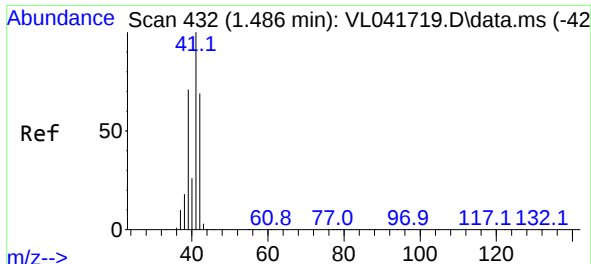
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#4
Chloromethane
Concen: 0.119 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.010 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

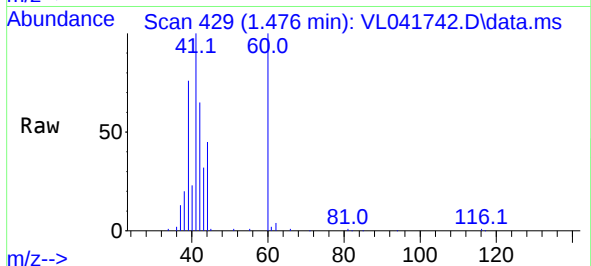
Tgt Ion: 50 Resp: 1343
Ion Ratio Lower Upper
50 100
52 33.8 26.6 40.0





#9
Propene
Concen: 0.899 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

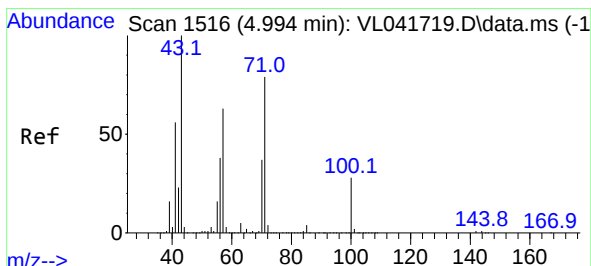
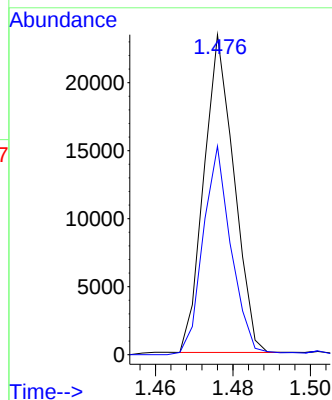
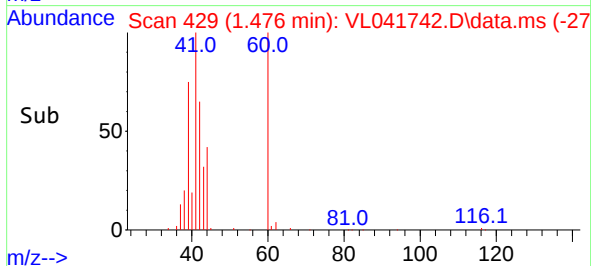
Instrument :
MSVOA_L
ClientSampleId :
SV3



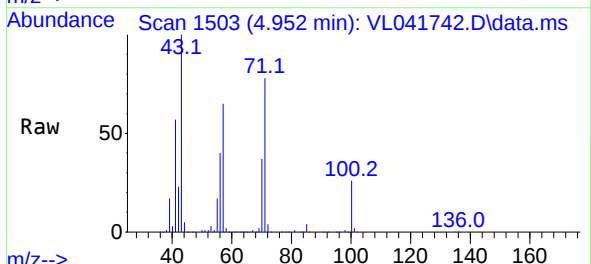
Tgt Ion: 41 Resp: 1259
Ion Ratio Lower Upper
41 100
42 63.4 56.2 84.4

Manual Integrations
APPROVED

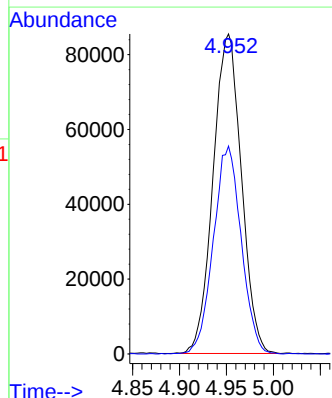
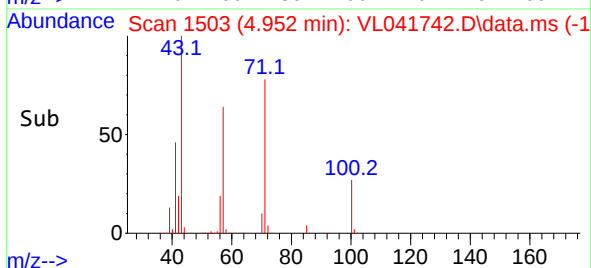
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

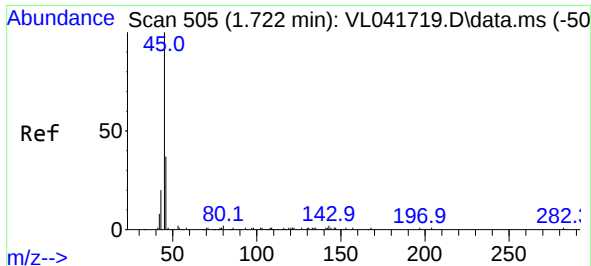


#10
Heptane
Concen: 4.617 ppbv
RT: 4.952 min Scan# 1503
Delta R.T. -0.042 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



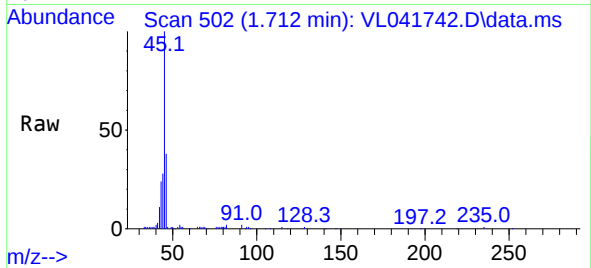
Tgt Ion: 43 Resp: 178890
Ion Ratio Lower Upper
43 100
57 64.1 50.5 75.7





#13
Ethanol
Concen: 9.108 ppbv
RT: 1.712 min Scan# 505
Delta R.T. -0.010 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

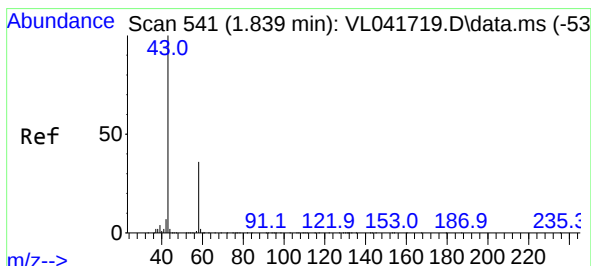
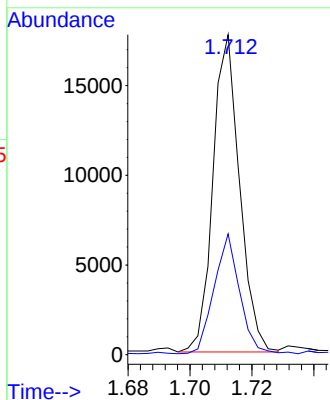
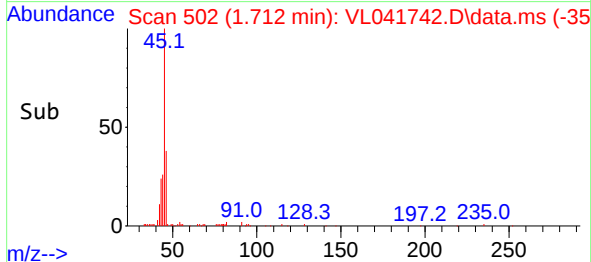
Instrument :
MSVOA_L
ClientSampleId :
SV3



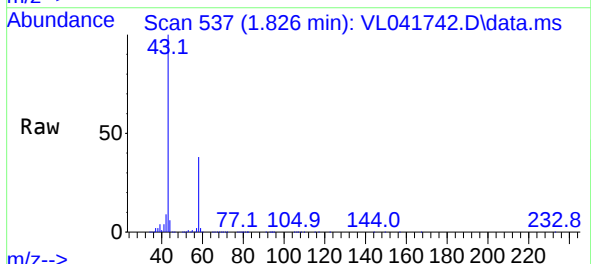
Tgt Ion: 45 Resp: 10559
Ion Ratio Lower Upper
45 100
46 40.5 16.6 66.6

Manual Integrations
APPROVED

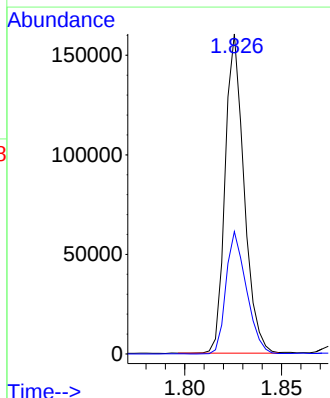
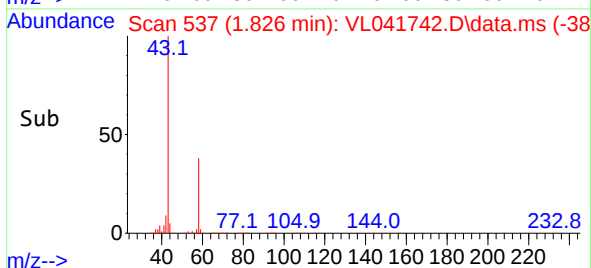
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

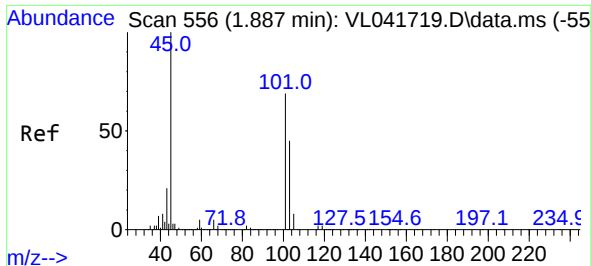


#15
Acetone
Concen: 3.894 ppbv
RT: 1.826 min Scan# 537
Delta R.T. -0.013 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



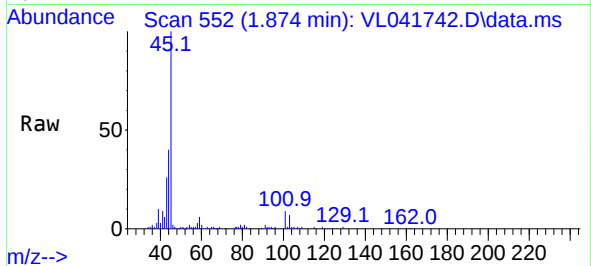
Tgt Ion: 43 Resp: 108547
Ion Ratio Lower Upper
43 100
58 42.1 28.9 43.3





#19
Isopropyl Alcohol
Concen: 0.409 ppbv
RT: 1.874 min Scan# 511
Delta R.T. -0.013 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

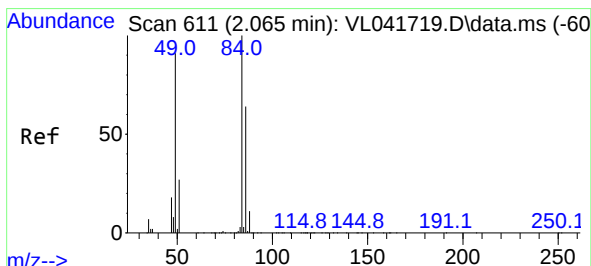
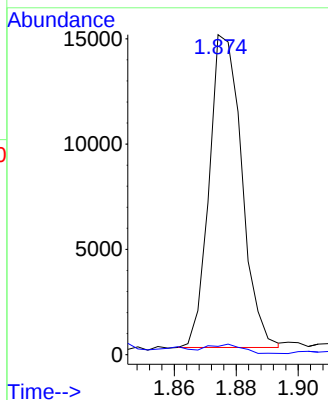
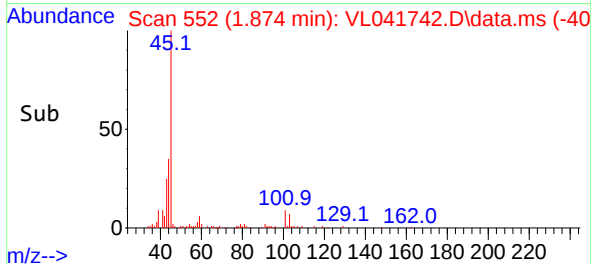
Instrument :
MSVOA_L
ClientSampleId :
SV3



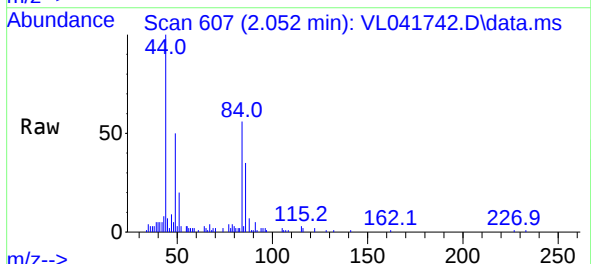
Tgt Ion: 45 Resp: 10830
Ion Ratio Lower Upper
45 100
58 422.1 40.6 61.0

Manual Integrations
APPROVED

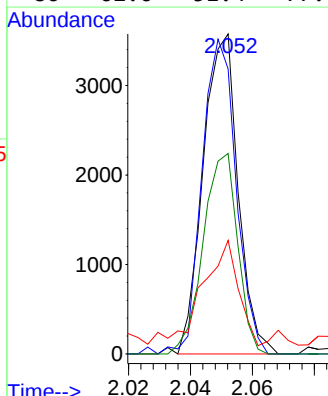
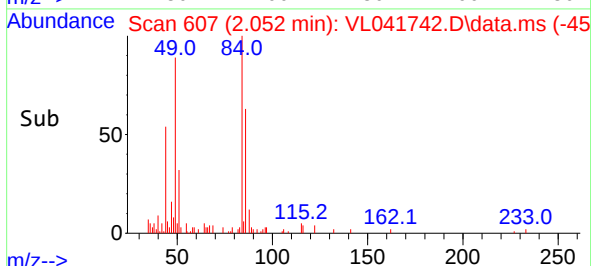
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

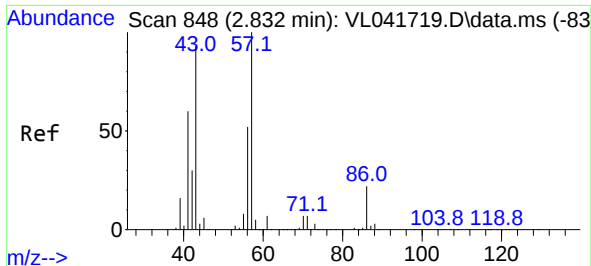


#20
Methylene Chloride
Concen: 0.166 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



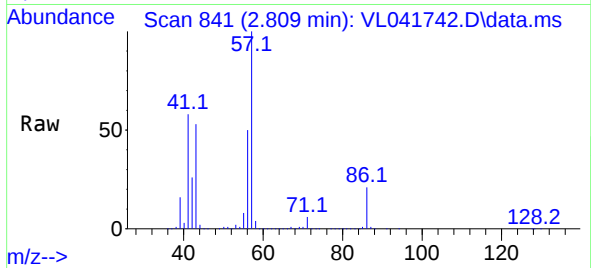
Tgt Ion: 84 Resp: 2800
Ion Ratio Lower Upper
84 100
49 89.1 73.6 110.4
51 28.3 22.7 34.1
86 62.6 51.4 77.0





#26
Hexane
Concen: 7.260 ppbv
RT: 2.809 min Scan# 841
Delta R.T. -0.023 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

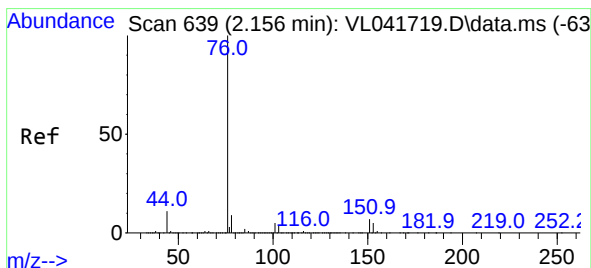
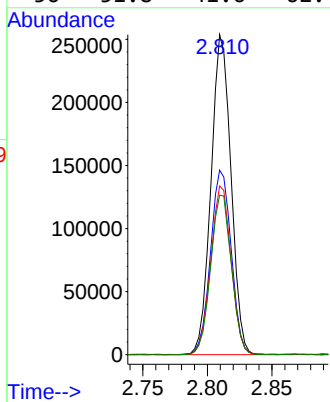
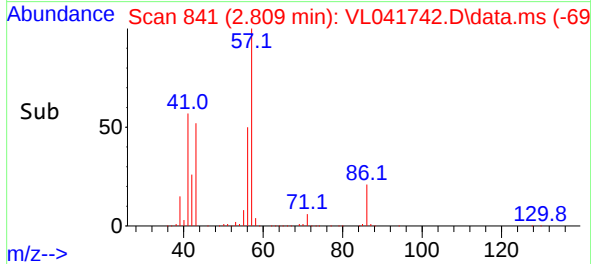
Instrument : MSVOA_L
ClientSampleId : SV3



Tgt Ion: 57 Resp: 27282
Ion Ratio Lower Upper
57 100
41 59.8 49.5 74.3
43 54.1 150.6 225.8
56 51.8 41.6 62.4

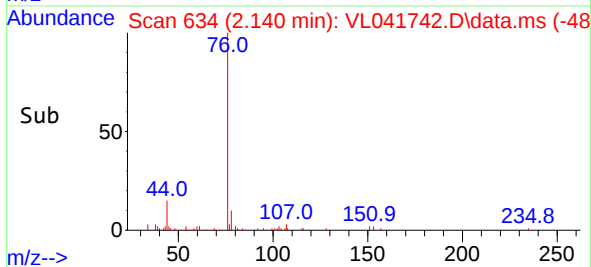
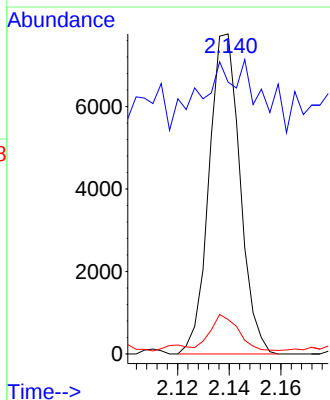
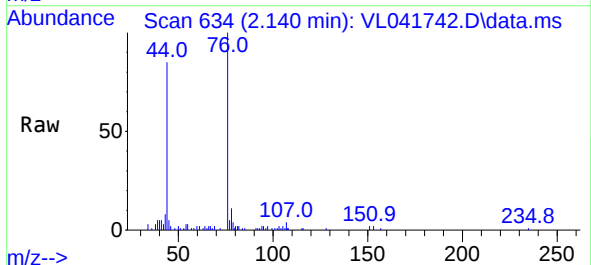
Manual Integrations
APPROVED

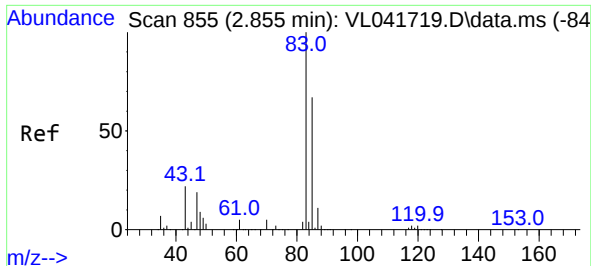
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#27
Carbon Disulfide
Concen: 0.167 ppbv
RT: 2.140 min Scan# 634
Delta R.T. -0.016 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

Tgt Ion: 76 Resp: 6472
Ion Ratio Lower Upper
76 100
44 109.0 9.4 14.0#
78 10.8 9.4 14.0





#29

Chloroform

Concen: 0.120 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.023 min

Lab File: VL041742.D

Acq: 12 Dec 2024 10:01

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 83 Resp: 6898

Ion Ratio Lower Upper

83 100

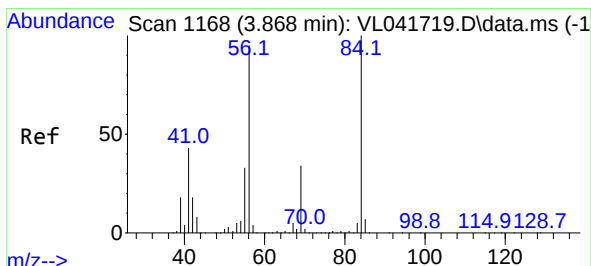
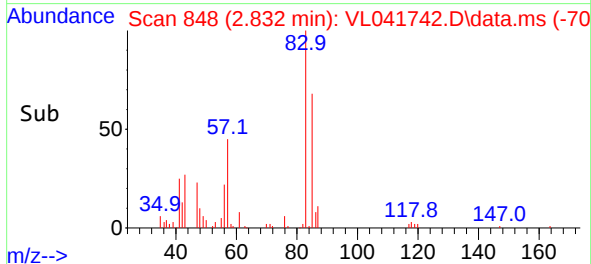
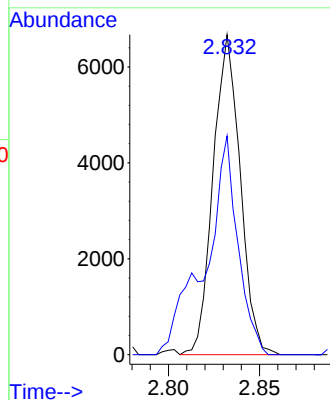
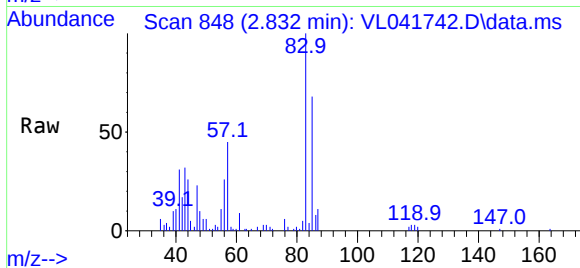
85 68.4 53.6 80.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#30

Cyclohexane

Concen: 2.572 ppbv

RT: 3.836 min Scan# 1158

Delta R.T. -0.033 min

Lab File: VL041742.D

Acq: 12 Dec 2024 10:01

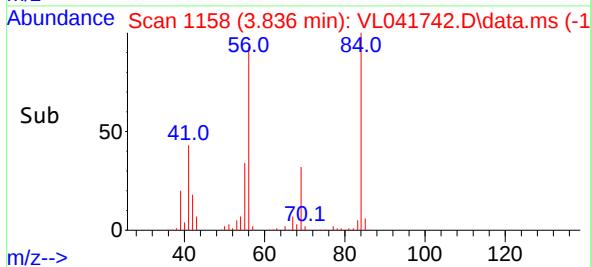
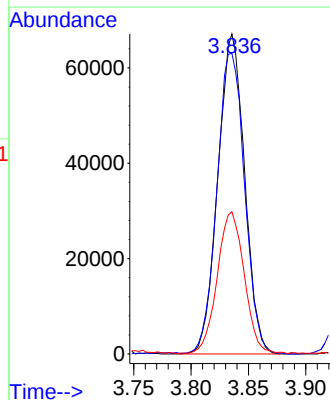
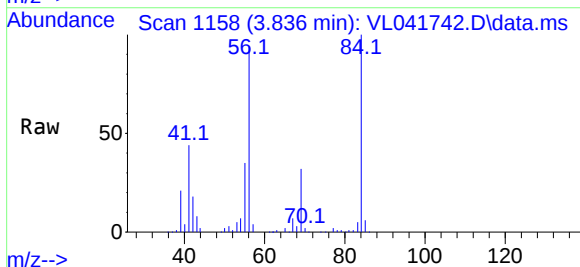
Tgt Ion: 84 Resp: 108545

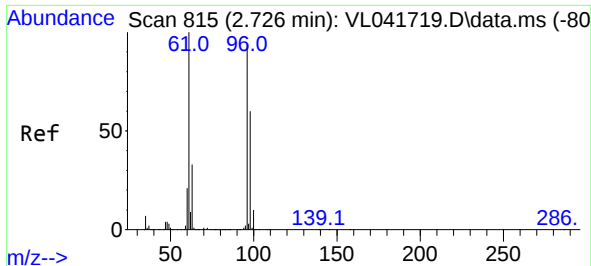
Ion Ratio Lower Upper

84 100

56 98.0 76.0 114.0

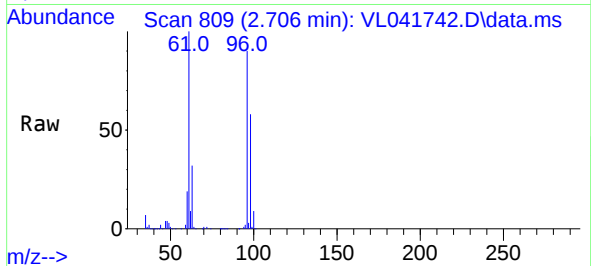
41 44.7 34.2 51.4





#31
cis-1,2-Dichloroethene
Concen: 3.419 ppbv
RT: 2.706 min Scan# 809
Delta R.T. -0.020 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

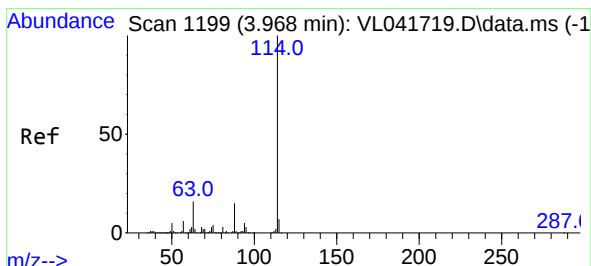
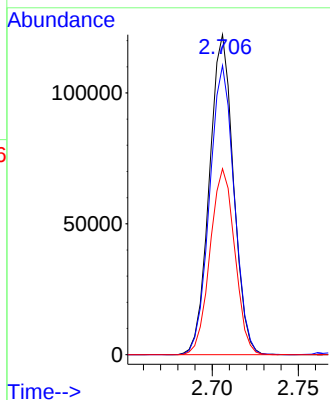
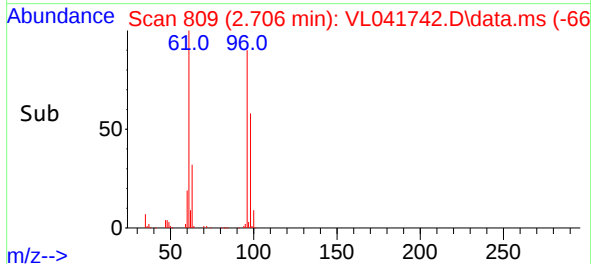
Instrument :
MSVOA_L
ClientSampleId :
SV3



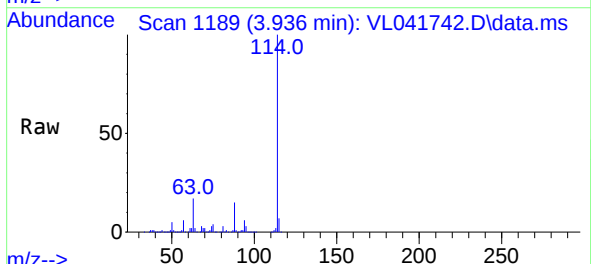
Tgt Ion: 61 Resp: 119028
Ion Ratio Lower Upper
61 100
96 90.3 75.4 113.2
98 58.1 48.3 72.5

Manual Integrations
APPROVED

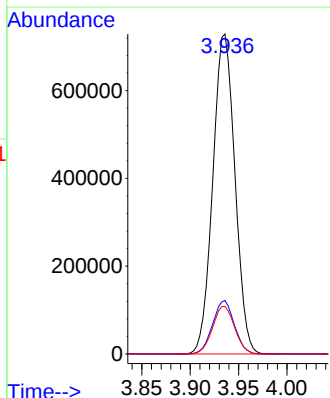
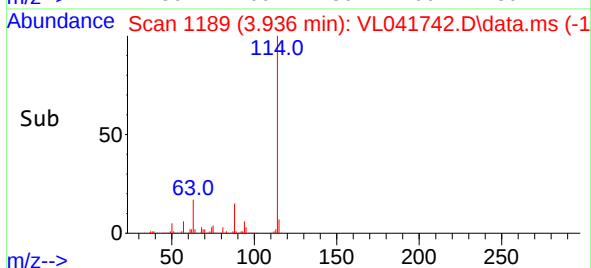
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

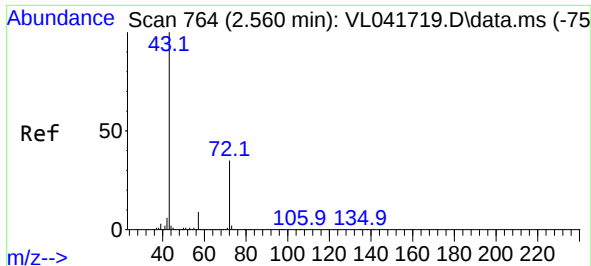


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.936 min Scan# 1189
Delta R.T. -0.033 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



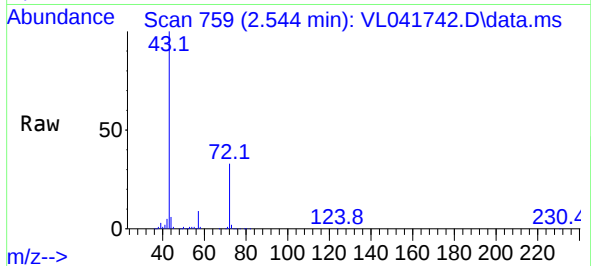
Tgt Ion:114 Resp: 1158894
Ion Ratio Lower Upper
114 100
63 16.4 12.9 19.3
88 14.9 11.8 17.6





#34
2-Butanone
Concen: 2.183 ppbv
RT: 2.544 min Scan# 71
Delta R.T. -0.016 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

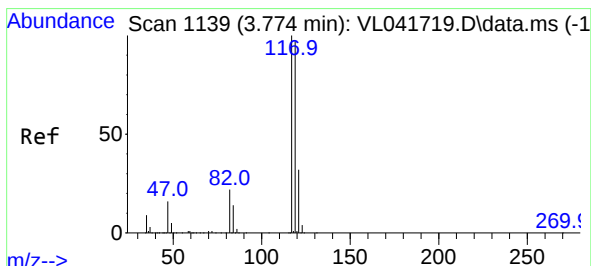
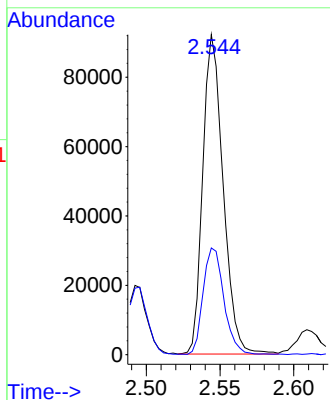
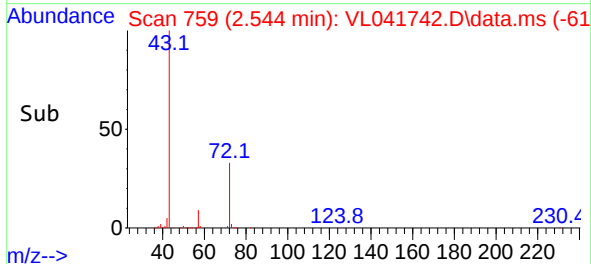
Instrument :
MSVOA_L
ClientSampleId :
SV3



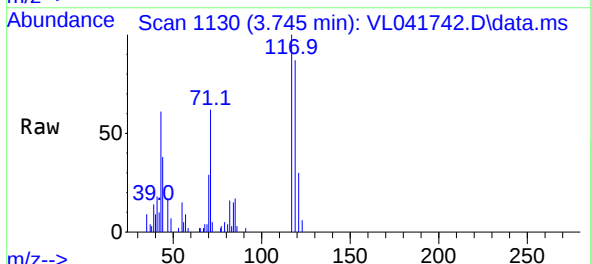
Tgt Ion: 43 Resp: 88590
Ion Ratio Lower Upper
43 100
72 34.1 28.3 42.5

Manual Integrations
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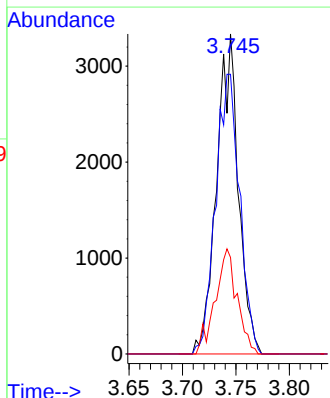
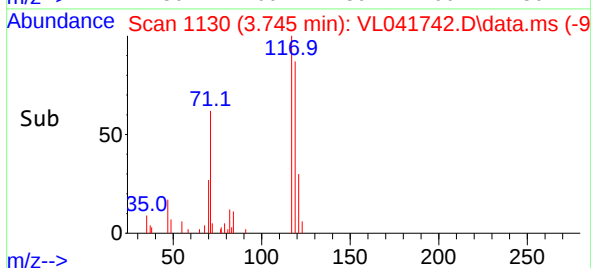
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

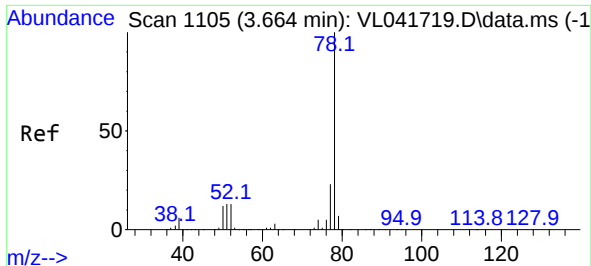


#35
Carbon Tetrachloride
Concen: 0.087 ppbv m
RT: 3.745 min Scan# 1130
Delta R.T. -0.029 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



Tgt Ion:117 Resp: 4717
Ion Ratio Lower Upper
117 100
119 87.4 77.7 116.5
121 30.2 25.5 38.3





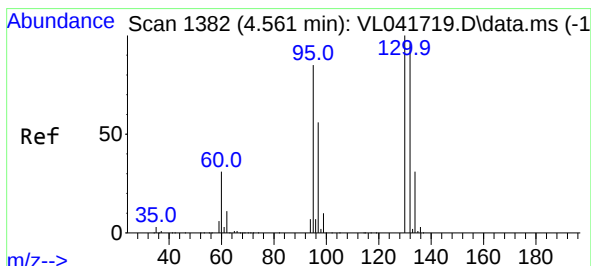
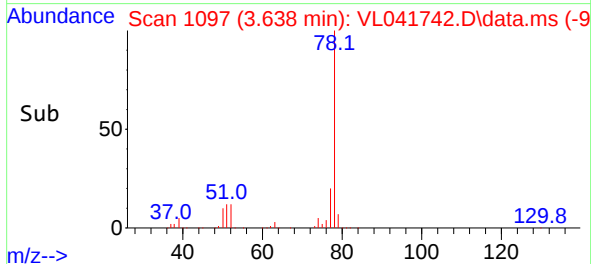
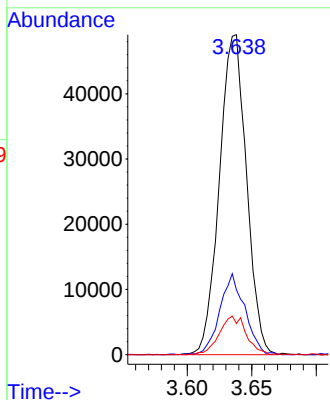
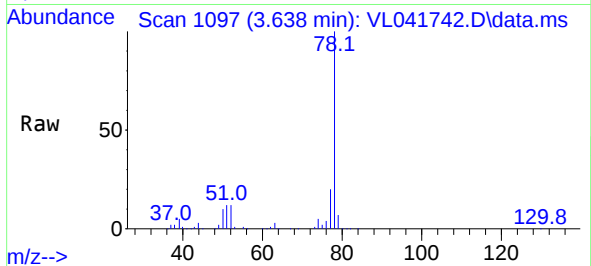
#36
Benzene
Concen: 0.786 ppbv
RT: 3.638 min Scan# 1105
Delta R.T. -0.026 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 78 Resp: 71634
Ion Ratio Lower Upper
78 100
77 20.2 18.6 27.8
50 9.7 9.5 14.3

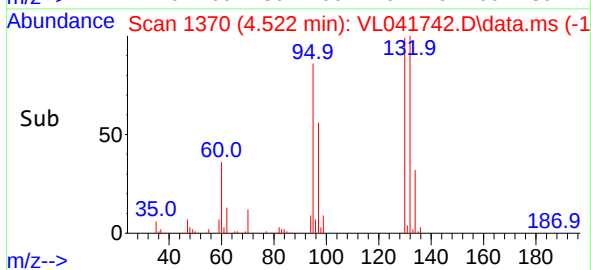
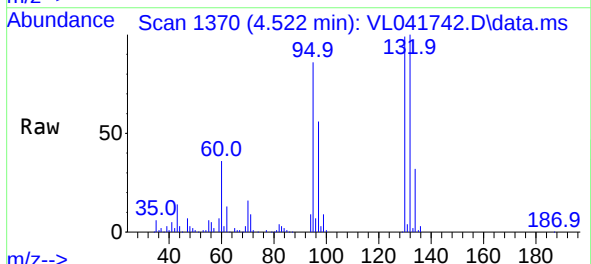
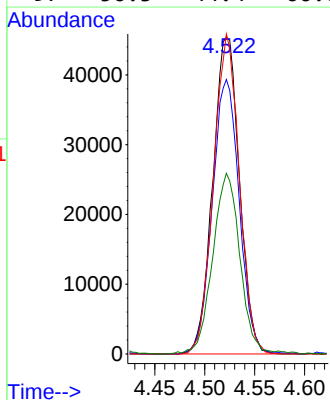
Manual Integrations
APPROVED

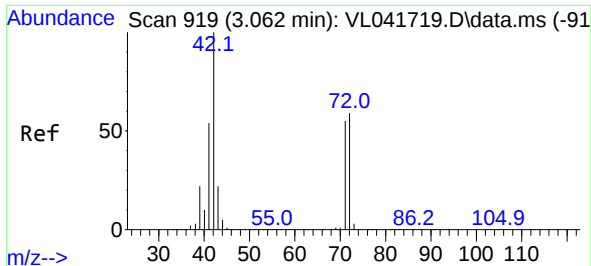
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#38
Trichloroethene
Concen: 1.786 ppbv
RT: 4.522 min Scan# 1370
Delta R.T. -0.039 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

Tgt Ion:130 Resp: 84403
Ion Ratio Lower Upper
130 100
95 86.5 68.0 102.0
132 101.0 76.5 114.7
97 56.3 44.4 66.6





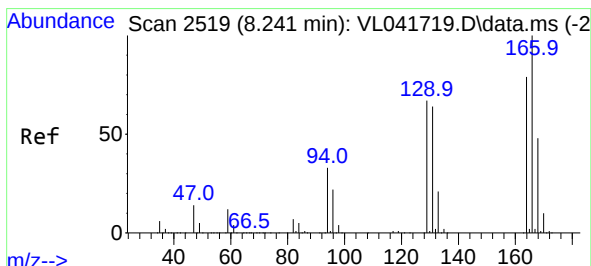
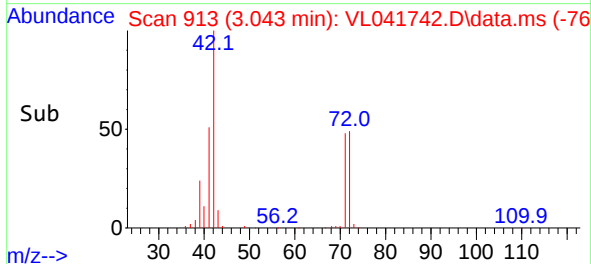
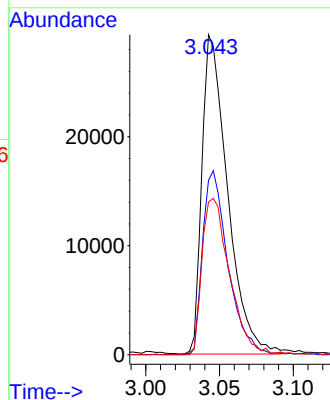
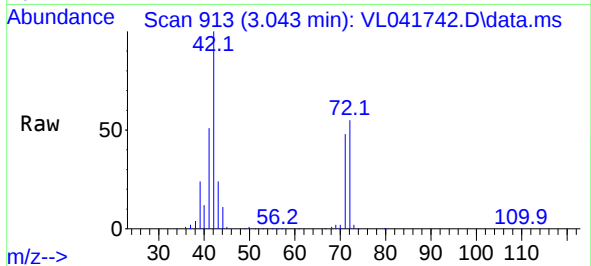
#41
Tetrahydrofuran
Concen: 1.448 ppbv
RT: 3.043 min Scan# 91
Delta R.T. -0.020 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 42 Resp: 3541
Ion Ratio Lower Upper
42 100
72 57.1 47.4 71.0
71 53.1 44.4 66.6

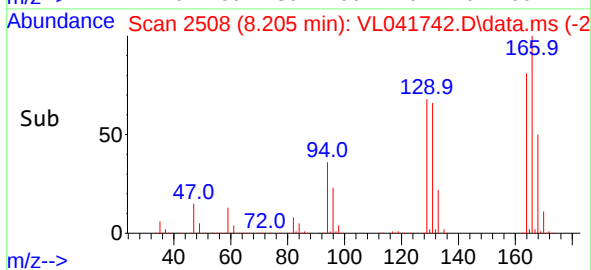
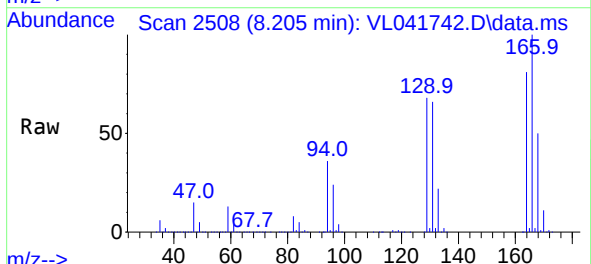
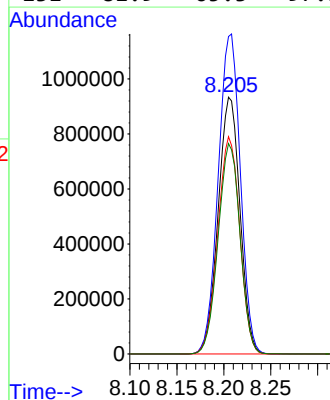
Manual Integrations
APPROVED

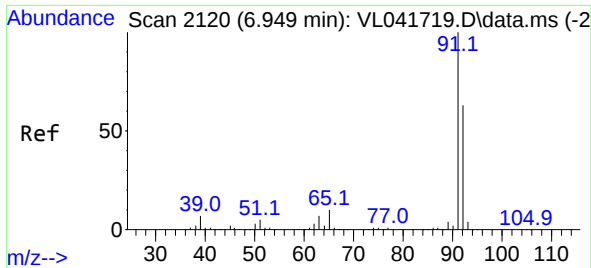
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#52
Tetrachloroethene
Concen: 31.335 ppbv
RT: 8.205 min Scan# 2508
Delta R.T. -0.036 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

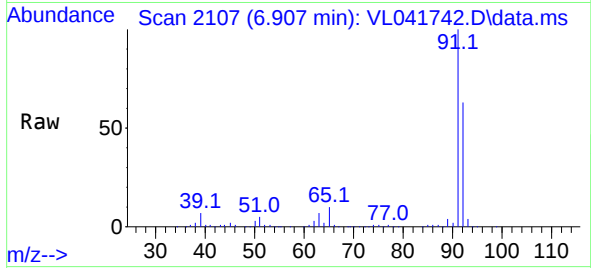
Tgt Ion:164 Resp: 1512748
Ion Ratio Lower Upper
164 100
166 123.6 101.4 152.0
129 84.6 67.6 101.4
131 81.9 65.3 97.9





#53
Toluene
Concen: 4.311 ppbv
RT: 6.907 min Scan# 2111
Delta R.T. -0.042 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

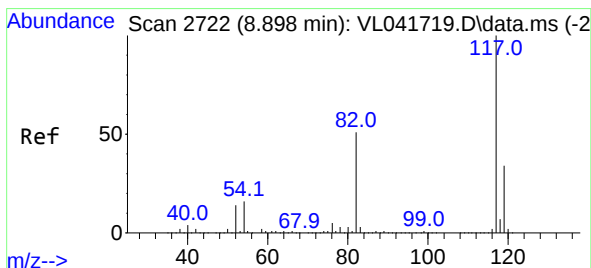
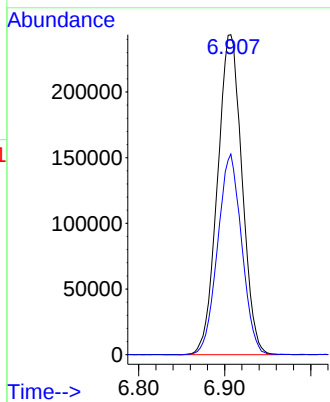
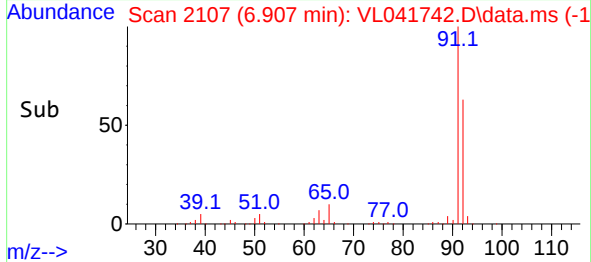
Instrument : MSVOA_L
ClientSampleId : SV3



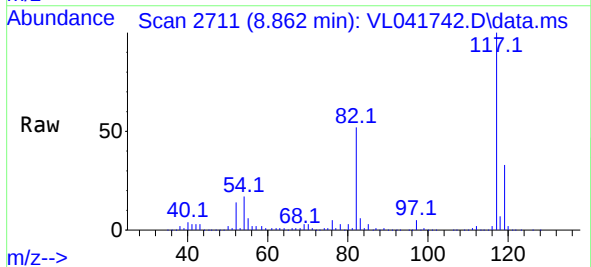
Tgt Ion: 91 Resp: 482777
Ion Ratio Lower Upper
91 100
92 61.6 49.7 74.5

Manual Integrations
APPROVED

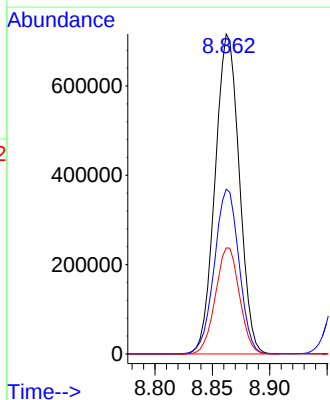
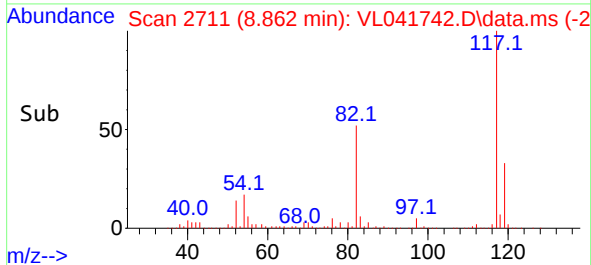
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

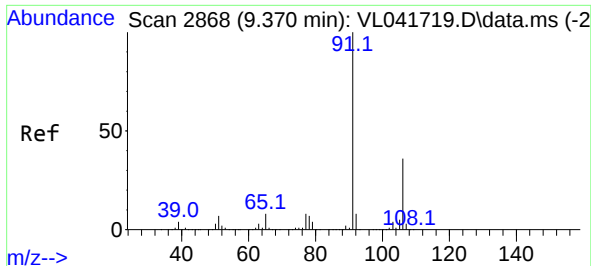


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.036 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



Tgt Ion:117 Resp: 1050344
Ion Ratio Lower Upper
117 100
82 52.6 41.3 61.9
119 33.1 25.8 38.8





#58

Ethyl Benzene

Concen: 1.743 ppbv

RT: 9.338 min Scan# 21

Delta R.T. -0.033 min

Lab File: VL041742.D

Acq: 12 Dec 2024 10:01

Instrument :

MSVOA_L

ClientSampleId :

SV3

Tgt Ion: 91 Resp: 245019

Ion Ratio Lower Upper

91 100

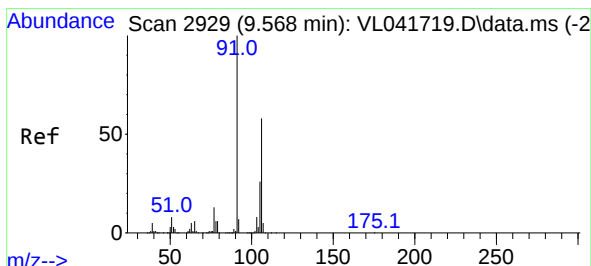
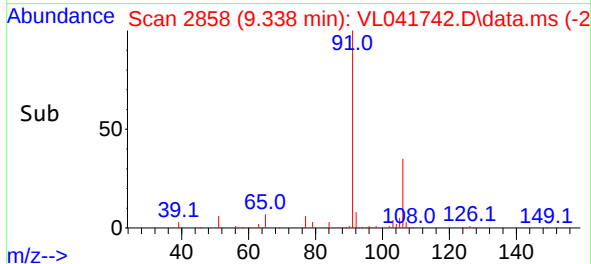
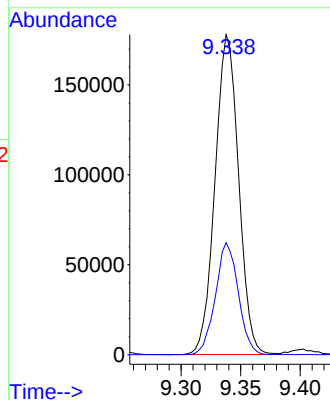
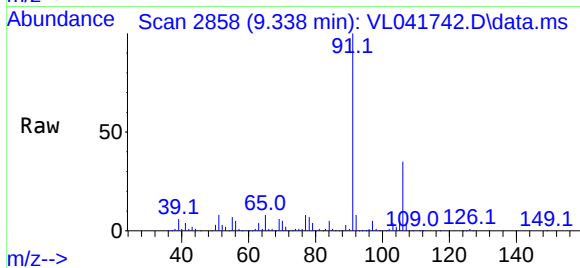
106 35.0 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#59

m/p-Xylene

Concen: 3.879 ppbv

RT: 9.516 min Scan# 2913

Delta R.T. -0.052 min

Lab File: VL041742.D

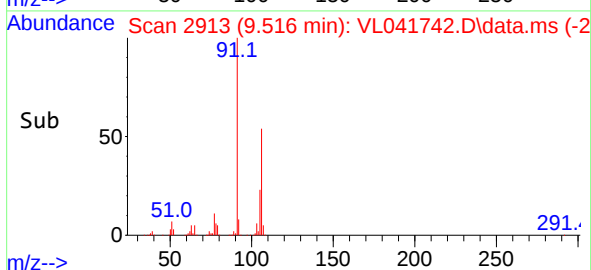
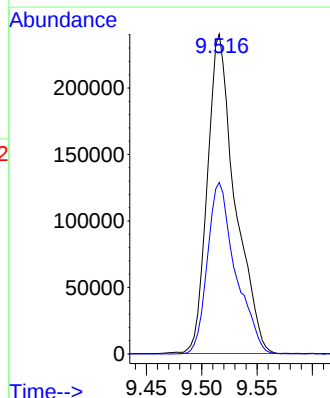
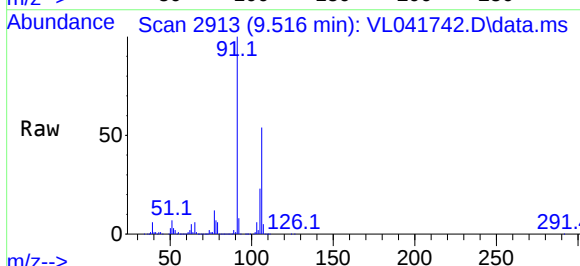
Acq: 12 Dec 2024 10:01

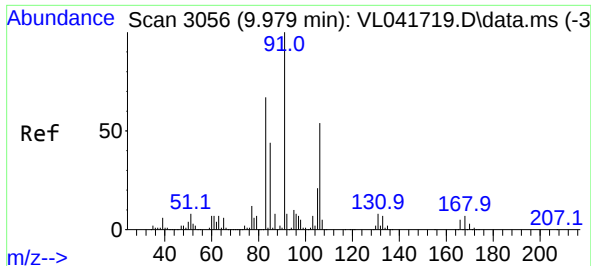
Tgt Ion: 91 Resp: 417826

Ion Ratio Lower Upper

91 100

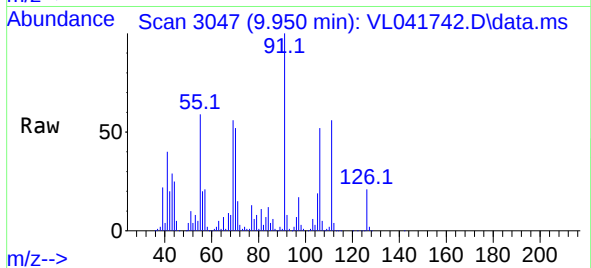
106 54.6 45.1 67.7





#60
o-Xylene
Concen: 1.737 ppbv
RT: 9.950 min Scan# 3056
Delta R.T. -0.029 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

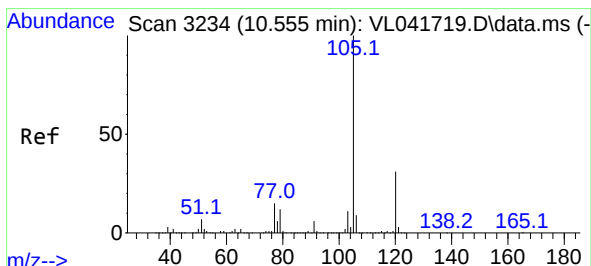
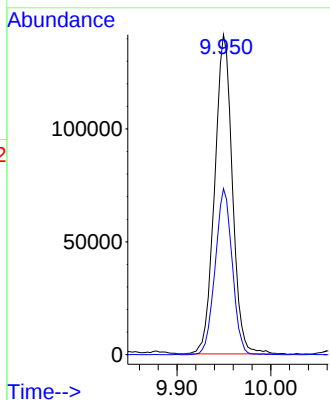
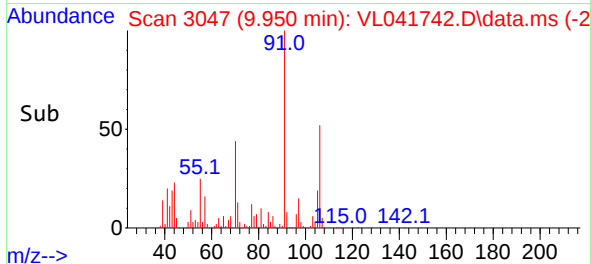
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 91 Resp: 18550
Ion Ratio Lower Upper
91 100
106 49.9 26.8 80.4

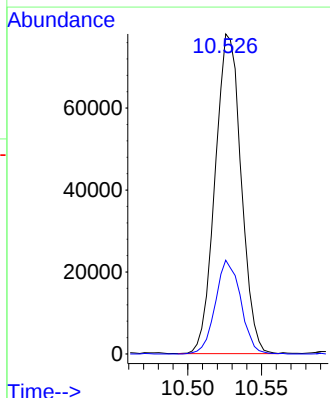
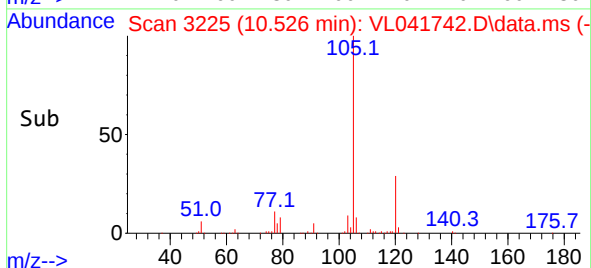
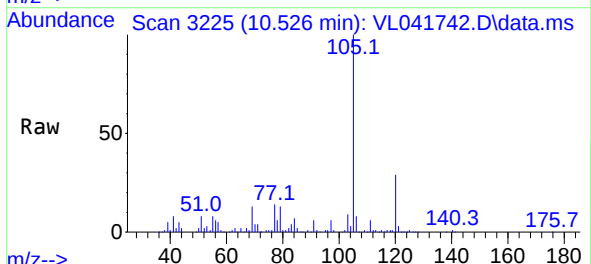
Manual Integrations
APPROVED

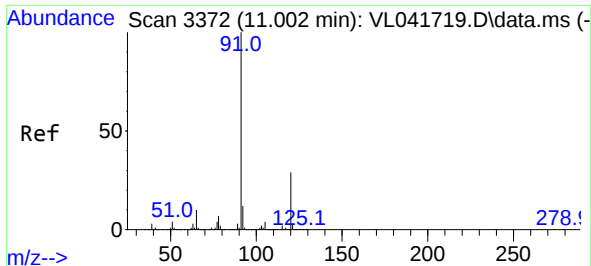
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#62
Isopropylbenzene
Concen: 0.544 ppbv
RT: 10.526 min Scan# 3225
Delta R.T. -0.029 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

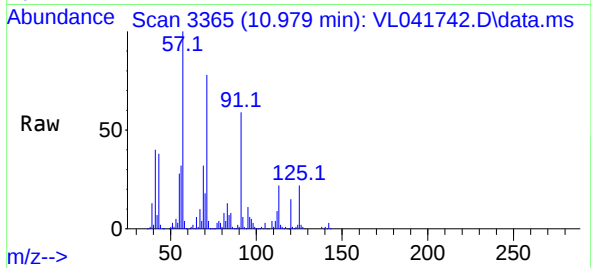
Tgt Ion:105 Resp: 95859
Ion Ratio Lower Upper
105 100
120 28.5 24.3 36.5





#64
n-propylbenzene
Concen: 1.001 ppbv
RT: 10.979 min Scan# 3175
Delta R.T. -0.023 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

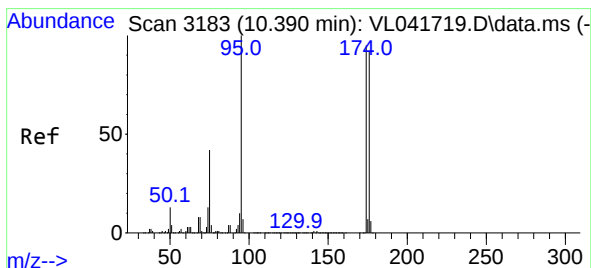
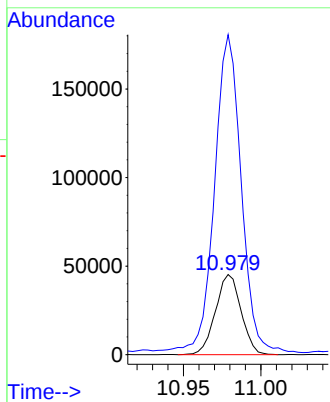
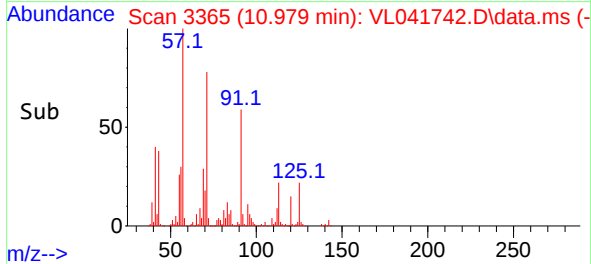
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion:120 Resp: 51920
Ion Ratio Lower Upper
120 100
91 409.0 290.8 436.2

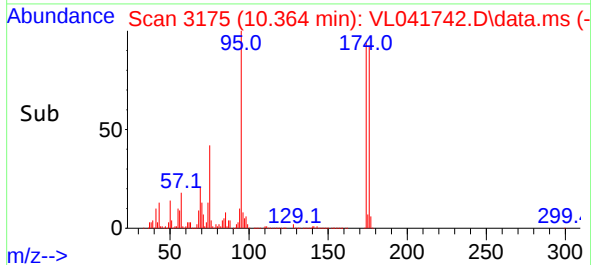
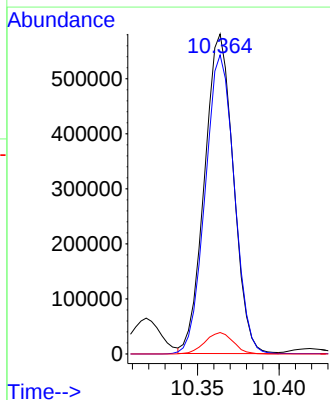
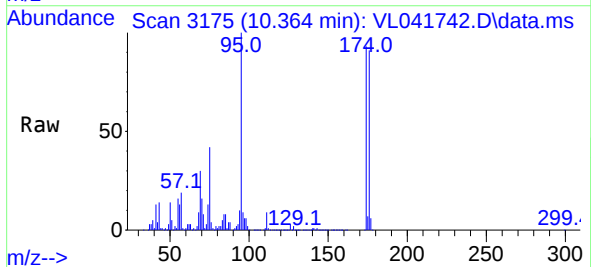
Manual Integrations
APPROVED

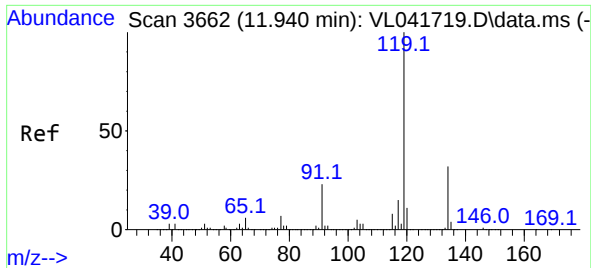
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.352 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.026 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

Tgt Ion: 95 Resp: 714825
Ion Ratio Lower Upper
95 100
174 94.3 76.7 115.1
175 6.6 5.4 8.2





#69
p-Isopropyltoluene
Concen: 0.210 ppbv
RT: 11.917 min Scan# 3655
Delta R.T. -0.023 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

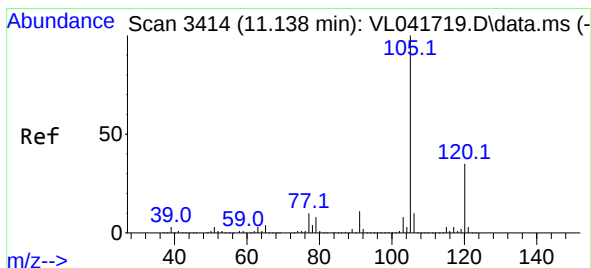
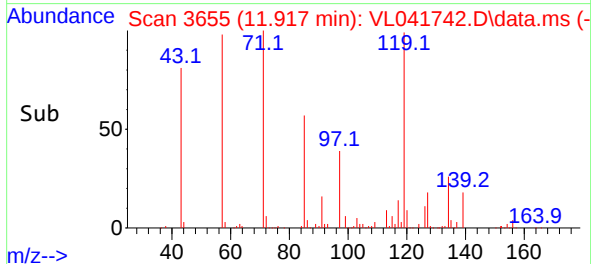
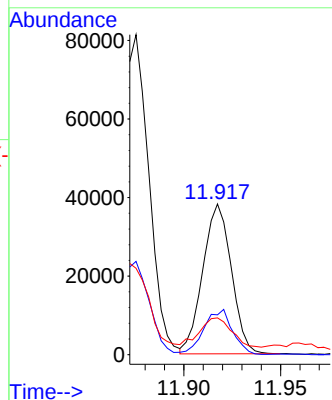
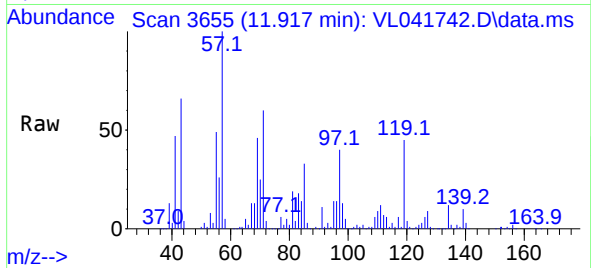
Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion:119 Resp: 39190

Ion	Ratio	Lower	Upper
119	100		
134	30.8	24.6	36.8
91	18.1	17.8	26.8

Manual Integrations
APPROVED

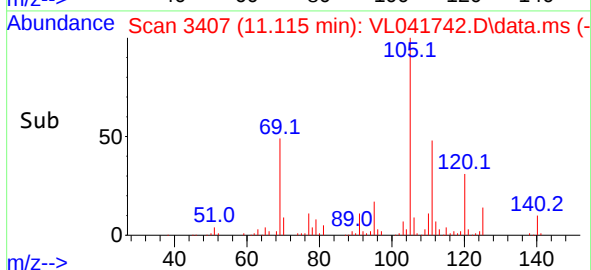
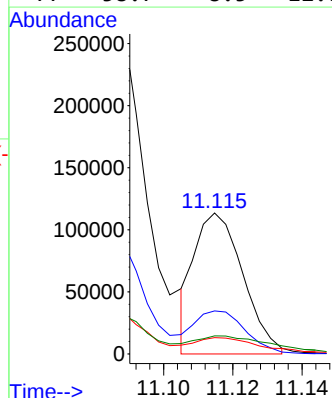
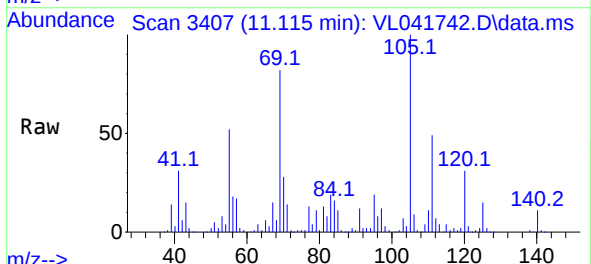
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

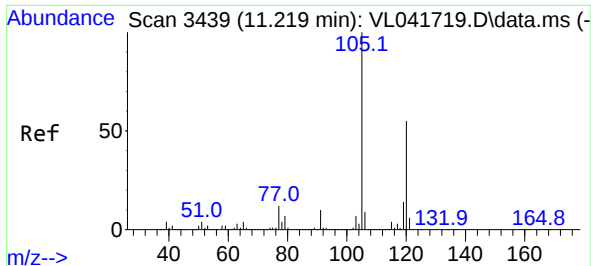


#72
4-Ethyltoluene
Concen: 0.805 ppbv m
RT: 11.115 min Scan# 3407
Delta R.T. -0.023 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

Tgt Ion:105 Resp: 111056

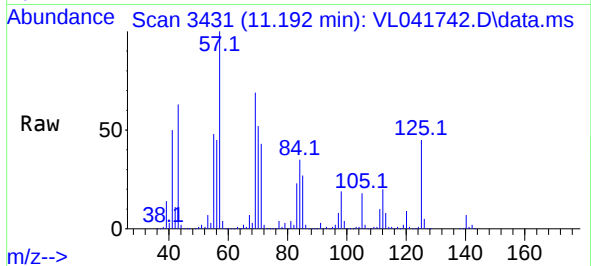
Ion	Ratio	Lower	Upper
105	100		
120	132.9	28.0	42.0#
91	55.4	8.8	13.2#
77	58.7	8.5	12.7#





#73
1,3,5-Trimethylbenzene
Concen: 1.092 ppbv
RT: 11.192 min Scan# 3439
Delta R.T. -0.026 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01

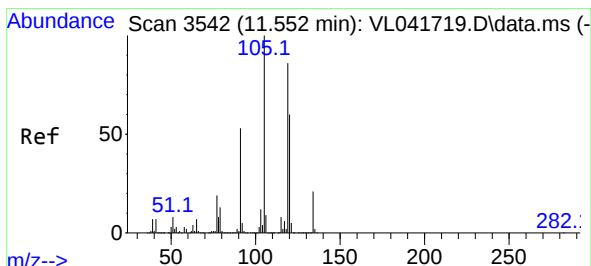
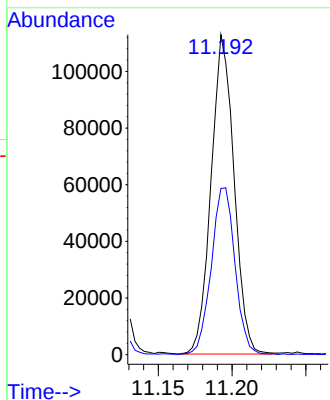
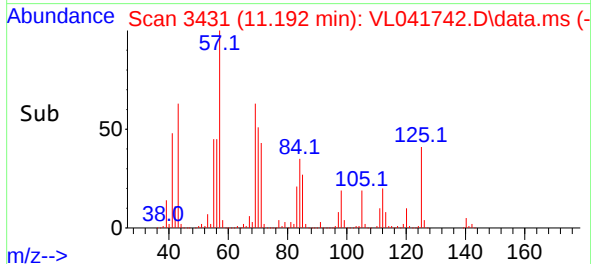
Instrument :
MSVOA_L
ClientSampleId :
SV3



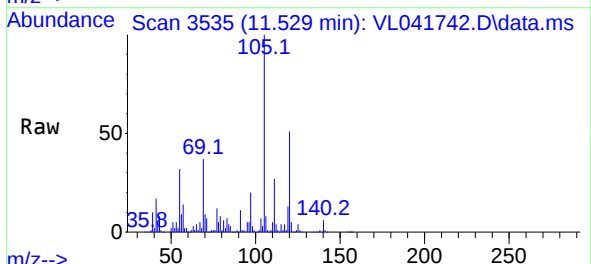
Tgt Ion:105 Resp: 12182
Ion Ratio Lower Upper
105 100
120 52.0 43.6 65.4

Manual Integrations
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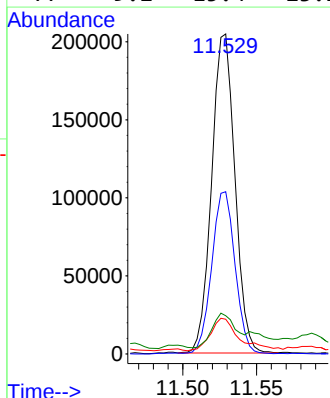
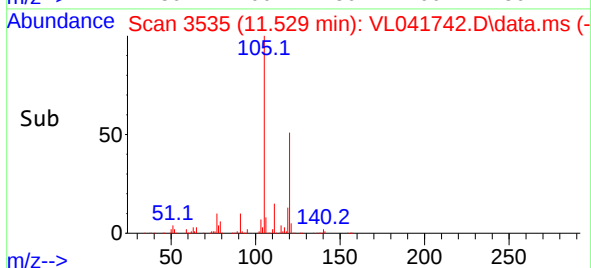
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#74
1,2,4-Trimethylbenzene
Concen: 1.848 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL041742.D
Acq: 12 Dec 2024 10:01



Tgt Ion:105 Resp: 224166
Ion Ratio Lower Upper
105 100
120 50.7 47.8 71.6
91 9.3 42.5 63.7#
77 9.2 15.4 23.2#



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	SV3DL	SDG No.:	P5150
Lab Sample ID:	P5150-03DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041747.D	20		12/12/24 12:37	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.28	0.72	UD	0.72	1.53	ug/m3
142-82-5	Heptane	18.0	73.8	D	9.02	41.0	ug/m3
75-35-4	1,1-Dichloroethene	2.80	11.1	UD	11.1	39.6	ug/m3
110-82-7	Cyclohexane	9.80	33.7	JD	15.2	34.4	ug/m3
156-59-2	cis-1,2-Dichloroethene	13.6	53.9	D	7.14	39.6	ug/m3
71-55-6	1,1,1-Trichloroethane	0.19	1.04	UD	1.04	3.27	ug/m3
540-84-1	2,2,4-Trimethylpentane	2.00	9.34	UD	9.34	46.7	ug/m3
71-43-2	Benzene	3.40	10.9	JD	5.43	31.9	ug/m3
107-06-2	1,2-Dichloroethane	1.80	7.29	UD	7.29	40.5	ug/m3
79-01-6	Trichloroethene	7.20	38.7	D	1.83	3.22	ug/m3
108-88-3	Toluene	16.6	62.6	D	8.29	37.7	ug/m3
127-18-4	Tetrachloroethene	130	882	D	2.03	4.07	ug/m3
100-41-4	Ethyl Benzene	6.80	29.5	JD	10.4	43.4	ug/m3
179601-23-1	m/p-Xylene	15.2	66.0	JD	18.2	86.9	ug/m3
95-47-6	o-Xylene	7.00	30.4	JD	10.4	43.4	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.20	20.6	JD	10.8	49.2	ug/m3
95-63-6	1,2,4-Trimethylbenzene	7.00	34.4	JD	7.87	49.2	ug/m3
91-20-3	Naphthalene	1.50	7.86	UD	7.86	10.5	ug/m3
110-54-3	Hexane	29.0	102	D	7.75	35.2	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	235000		2.771			
540-36-3	1,4-Difluorobenzene	1100000		3.933			
3114-55-4	Chlorobenzene-d5	969000		8.862			

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\VL121124\
 Data File : VL041747.D
 Acq On : 12 Dec 2024 12:37
 Operator : SY/MD
 Sample : P5150-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 15:07:21 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	235470	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.933	114	1097568	10.000	ppbv	-0.04
55) Chlorobenzene-d5	8.862	117	968906	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.361	95	657921	10.329	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.300%
Target Compounds						
					Qvalue	
9) Propene	1.476	41	3406	0.249	ppbv	99
10) Heptane	4.949	43	33965	0.899	ppbv	99
13) Ethanol	1.712	45	2343	2.072	ppbv #	34
15) Acetone	1.826	43	25668	0.944	ppbv	91
19) Isopropyl Alcohol	1.877	45	7912	0.306	ppbv #	35
20) Methylene Chloride	2.049	84	2471	0.150	ppbv	94
26) Hexane	2.810	57	53074	1.448	ppbv #	43
30) Cyclohexane	3.832	84	20256	0.492	ppbv	92
31) cis-1,2-Dichloroethene	2.706	61	23022	0.678	ppbv	98
34) 2-Butanone	2.547	43	18249	0.475	ppbv	97
36) Benzene	3.632	78	14799	0.171	ppbv	94
38) Trichloroethene	4.522	130	16168m	0.361	ppbv	
41) Tetrahydrofuran	3.049	42	6959	0.300	ppbv	98
52) Tetrachloroethene	8.202	164	285984	6.255	ppbv	99
53) Toluene	6.901	91	88068	0.830	ppbv	100
58) Ethyl Benzene	9.338	91	43866	0.338	ppbv	100
59) m/p-Xylene	9.513	91	75214	0.757	ppbv	98
60) o-Xylene	9.950	91	34917	0.354	ppbv	94
62) Isopropylbenzene	10.522	105	17437	0.107	ppbv	96
64) n-propylbenzene	10.979	120	9672	0.202	ppbv	75
72) 4-Ethyltoluene	11.112	105	20730m	0.163	ppbv	
73) 1,3,5-Trimethylbenzene	11.192	105	21547	0.209	ppbv	96
74) 1,2,4-Trimethylbenzene	11.526	105	39130	0.350	ppbv #	67

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

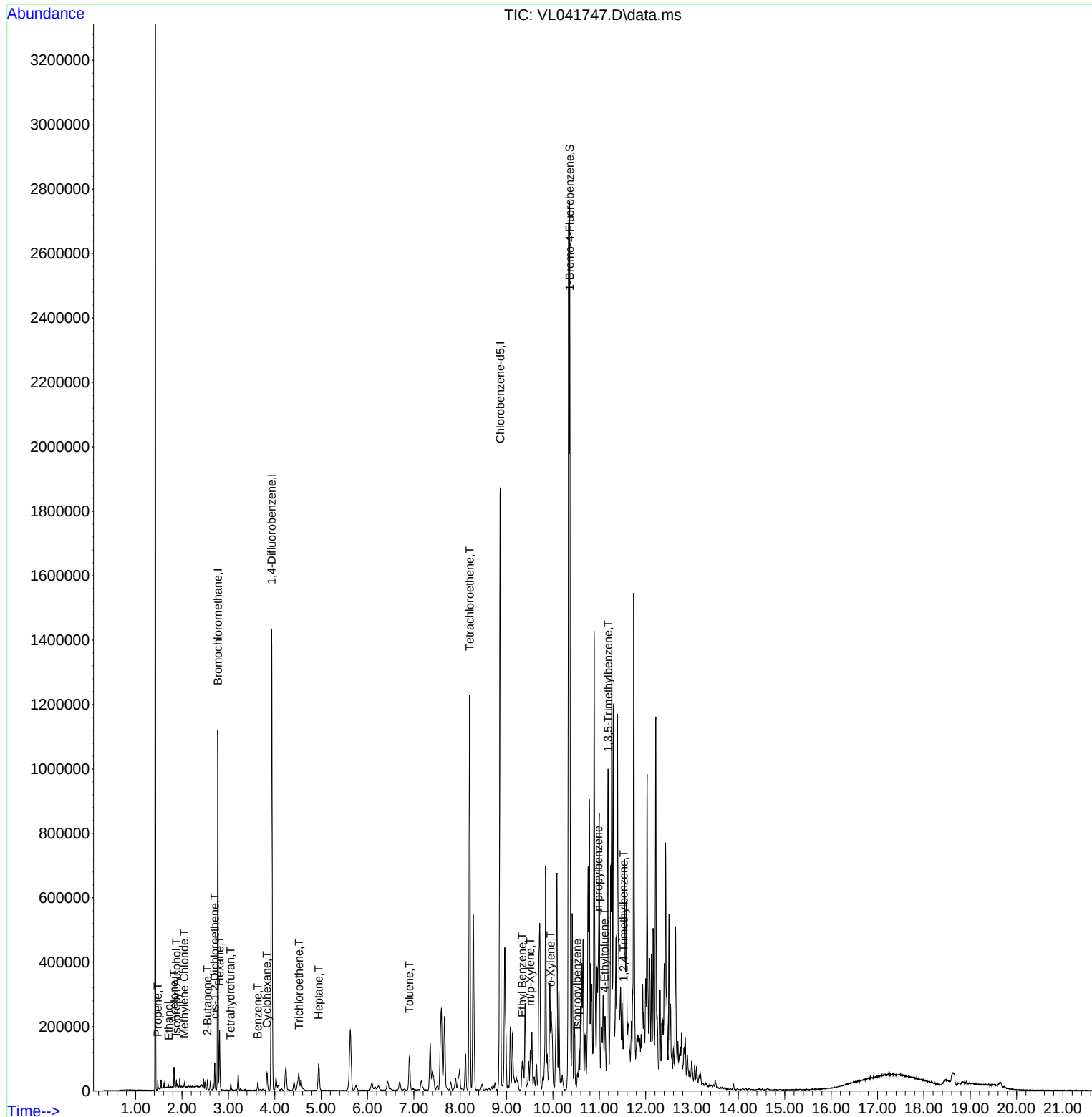
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041747.D
Acq On : 12 Dec 2024 12:37
Operator : SY/MD
Sample : P5150-03DL 20X
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

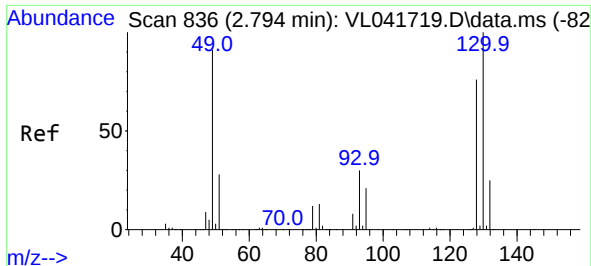
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Quant Time: Dec 12 15:07:21 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

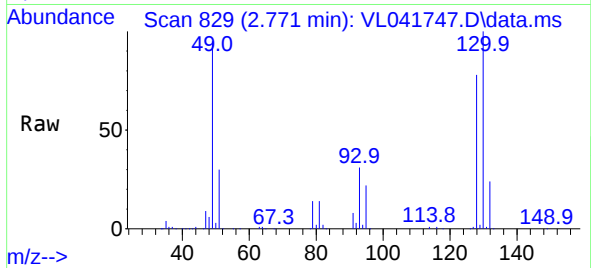
Reviewed By : Mahesh Dadoda 12/13/2024
Supervised By : Semsettin Yesilyurt 12/13/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.771 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

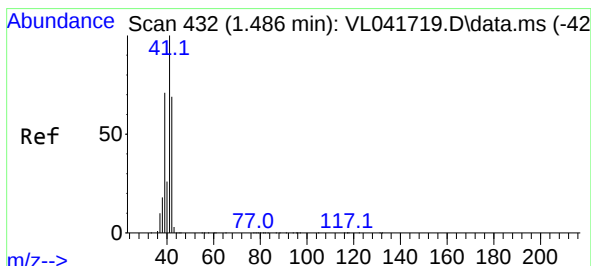
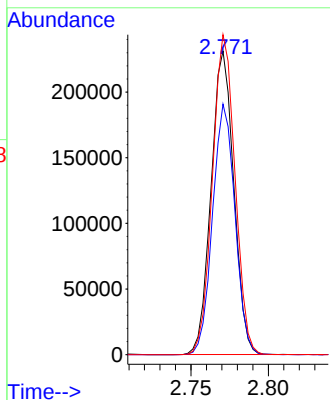
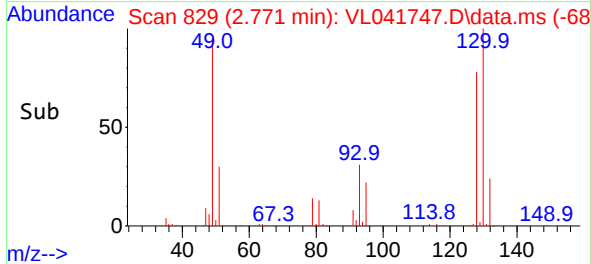
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 49 Resp: 235470
Ion Ratio Lower Upper
49 100
128 81.5 42.8 128.3
130 105.0 55.8 167.4

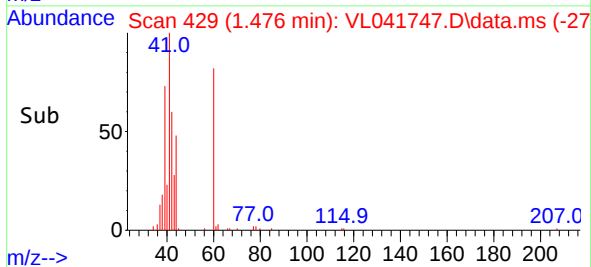
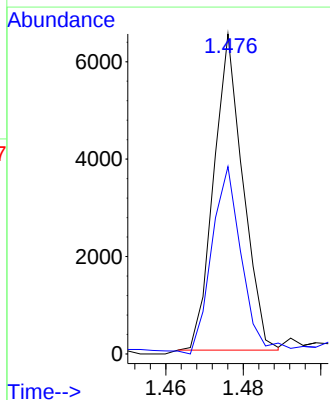
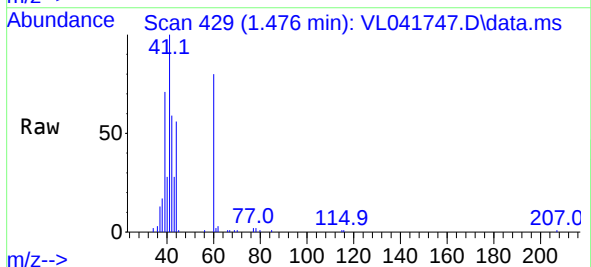
Manual Integrations
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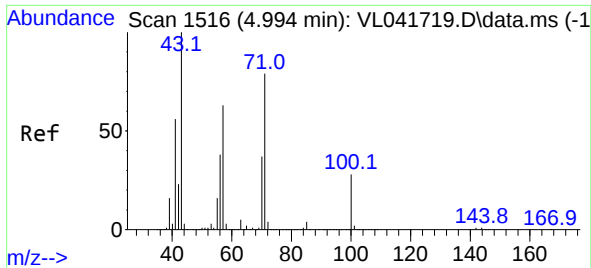
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#9
Propene
Concen: 0.249 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.010 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Tgt Ion: 41 Resp: 3406
Ion Ratio Lower Upper
41 100
42 69.3 56.2 84.4





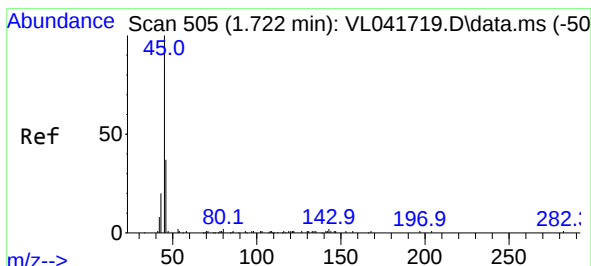
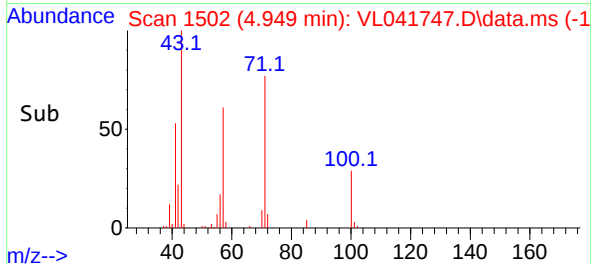
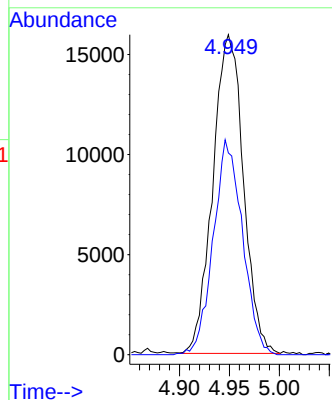
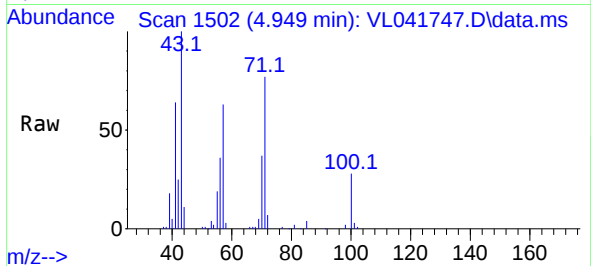
#10
Heptane
Concen: 0.899 ppbv
RT: 4.949 min Scan# 11
Delta R.T. -0.045 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 43 Resp: 3396
Ion Ratio Lower Upper
43 100
57 64.2 50.5 75.7

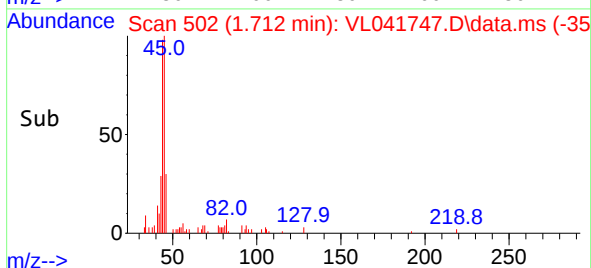
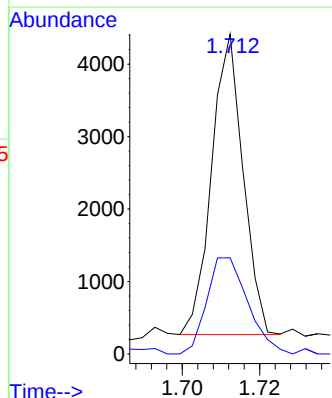
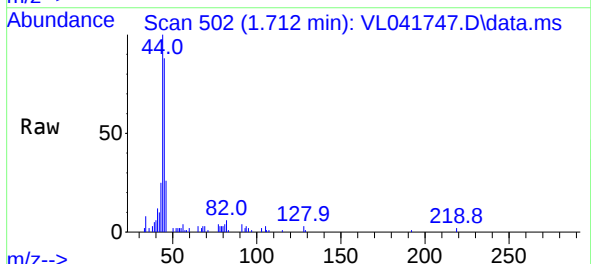
Manual Integrations
APPROVED

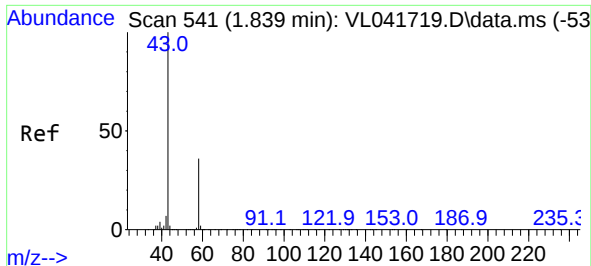
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#13
Ethanol
Concen: 2.072 ppbv
RT: 1.712 min Scan# 502
Delta R.T. -0.010 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

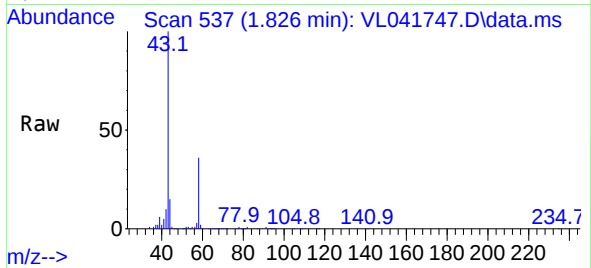
Tgt Ion: 45 Resp: 2343
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.6#





#15
Acetone
Concen: 0.944 ppbv
RT: 1.826 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

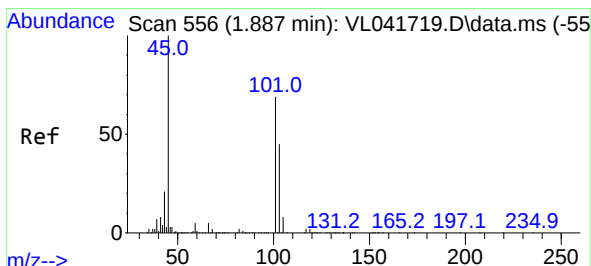
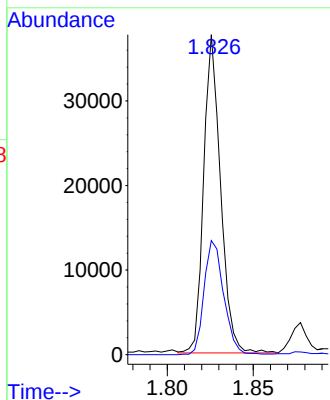
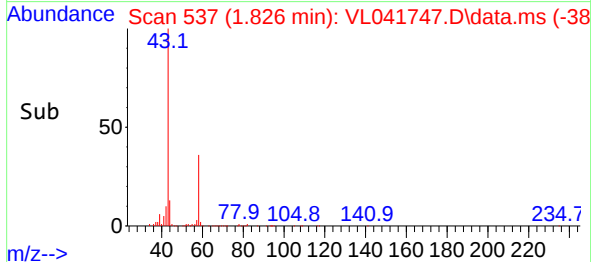
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



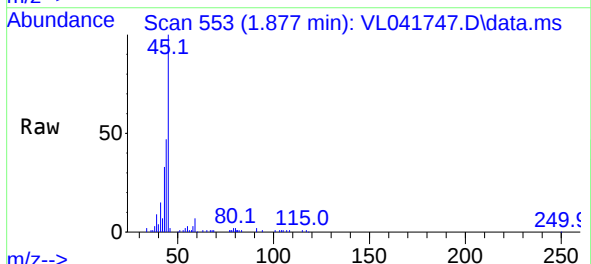
Tgt Ion: 43 Resp: 2566
Ion Ratio Lower Upper
43 100
58 41.7 28.9 43.3

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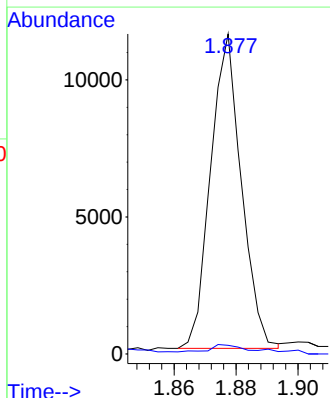
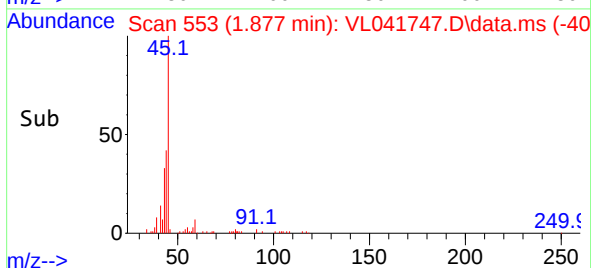
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

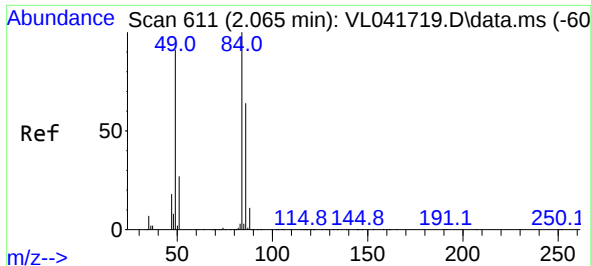


#19
Isopropyl Alcohol
Concen: 0.306 ppbv
RT: 1.877 min Scan# 553
Delta R.T. -0.010 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



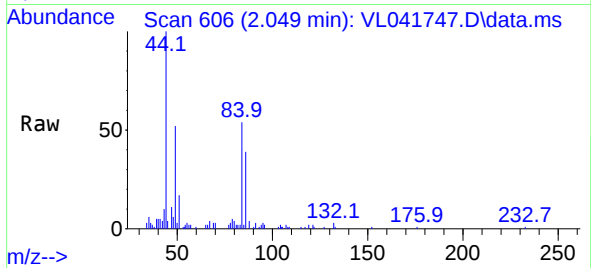
Tgt Ion: 45 Resp: 7912
Ion Ratio Lower Upper
45 100
58 5.4 40.6 61.0#





#20
Methylene Chloride
Concen: 0.150 ppbv
RT: 2.049 min Scan# 606
Delta R.T. -0.016 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

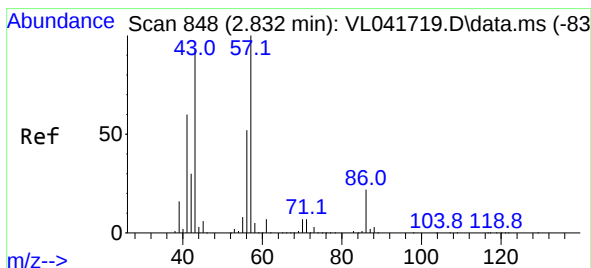
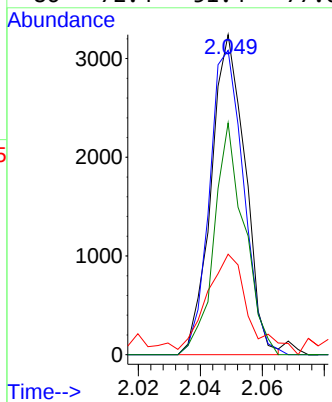
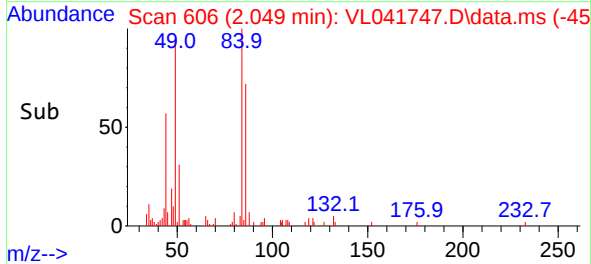
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 84 Resp: 247
Ion Ratio Lower Upper
84 100
49 95.1 73.6 110.4
51 29.8 22.7 34.1
86 72.4 51.4 77.0

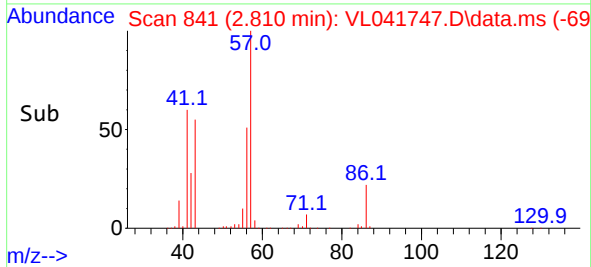
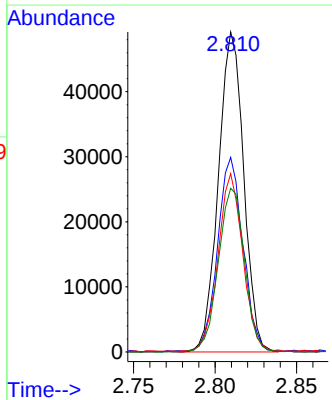
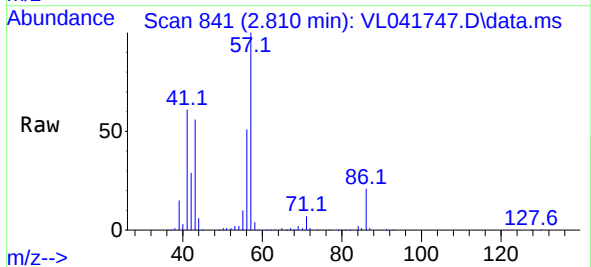
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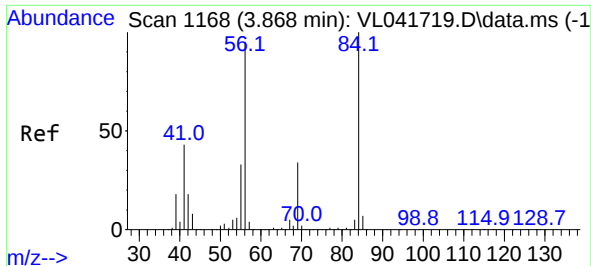
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#26
Hexane
Concen: 1.448 ppbv
RT: 2.810 min Scan# 841
Delta R.T. -0.023 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

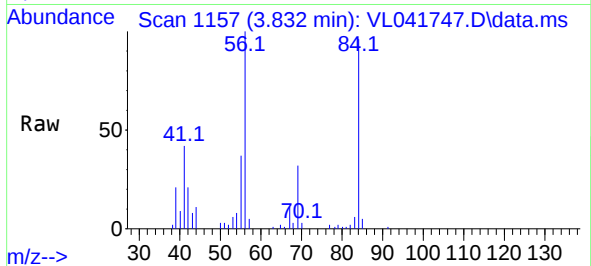
Tgt Ion: 57 Resp: 53074
Ion Ratio Lower Upper
57 100
41 61.1 49.5 74.3
43 54.9 150.6 225.8#
56 53.2 41.6 62.4





#30
Cyclohexane
Concen: 0.492 ppbv
RT: 3.832 min Scan# 1157
Delta R.T. -0.036 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

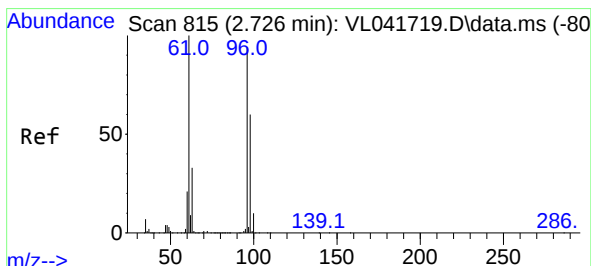
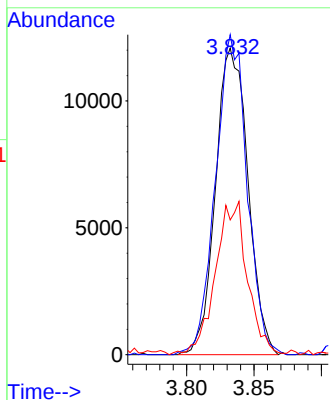
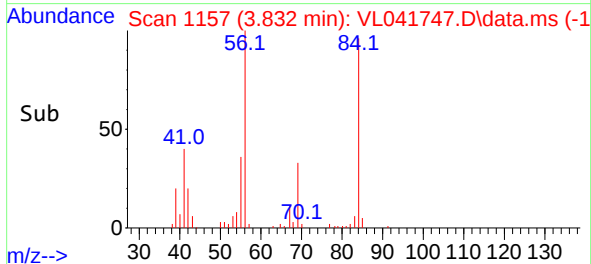
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion: 84 Resp: 20250
Ion Ratio Lower Upper
84 100
56 101.9 76.0 114.0
41 49.4 34.2 51.4

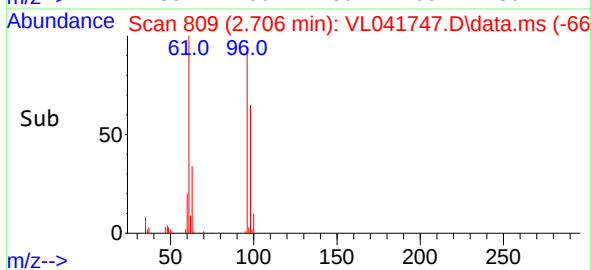
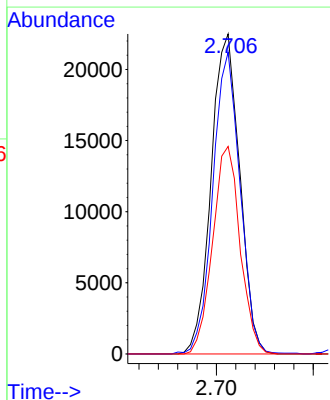
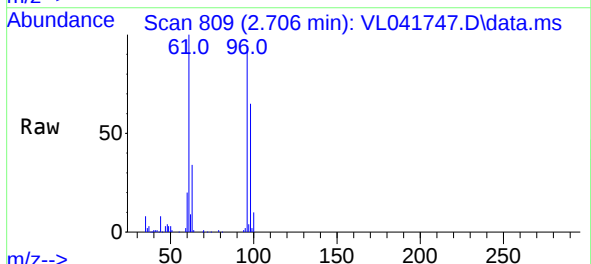
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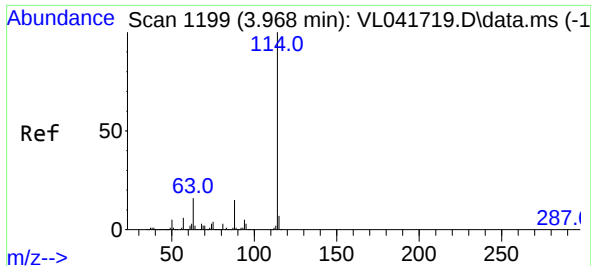
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#31
cis-1,2-Dichloroethene
Concen: 0.678 ppbv
RT: 2.706 min Scan# 809
Delta R.T. -0.020 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Tgt Ion: 61 Resp: 23022
Ion Ratio Lower Upper
61 100
96 94.0 75.4 113.2
98 64.9 48.3 72.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.933 min Scan# 1199

Delta R.T. -0.036 min

Lab File: VL041747.D

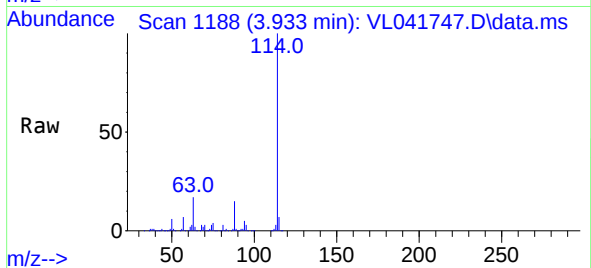
Acq: 12 Dec 2024 12:37

Instrument :

MSVOA_L

ClientSampleId :

SV3DL



Tgt Ion:114 Resp: 109756

Ion Ratio Lower Upper

114 100

63 16.6 12.9 19.3

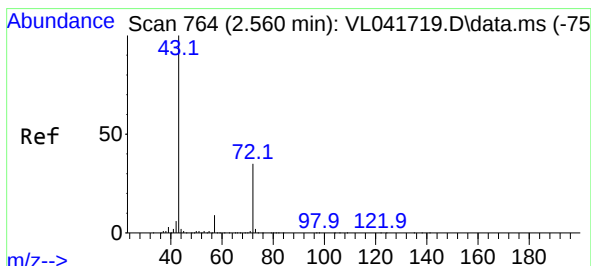
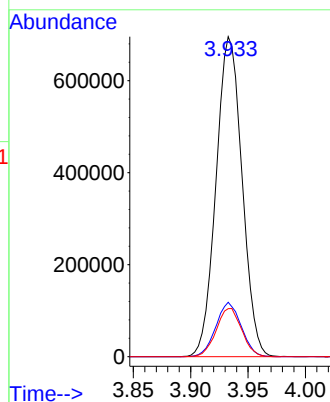
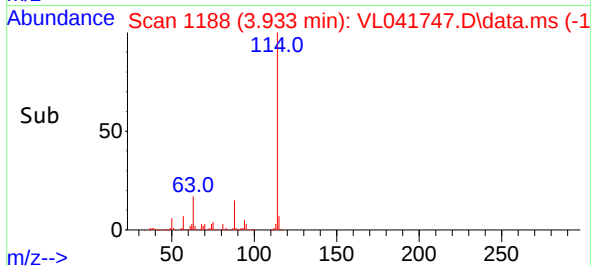
88 14.8 11.8 17.6

Manual Integrations

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Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#34

2-Butanone

Concen: 0.475 ppbv

RT: 2.547 min Scan# 760

Delta R.T. -0.013 min

Lab File: VL041747.D

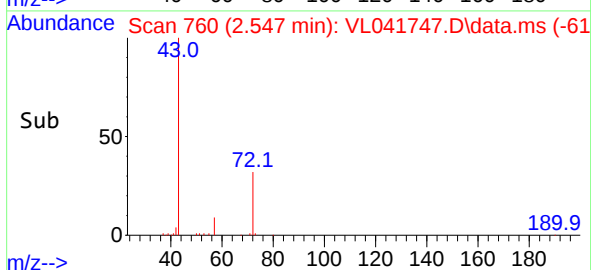
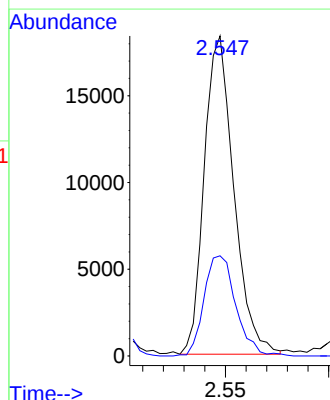
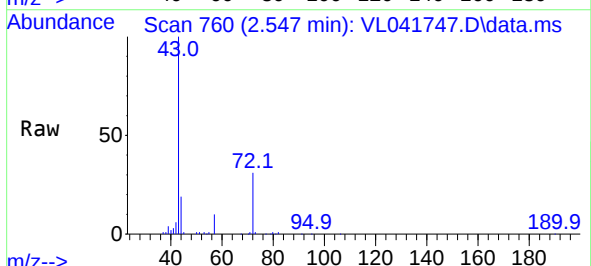
Acq: 12 Dec 2024 12:37

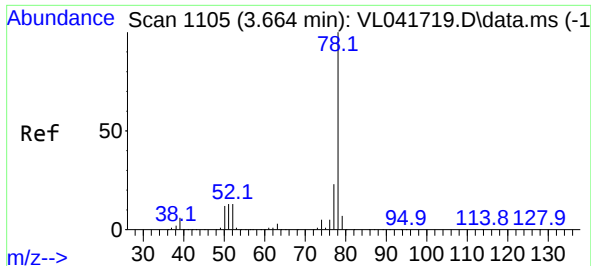
Tgt Ion: 43 Resp: 18249

Ion Ratio Lower Upper

43 100

72 33.9 28.3 42.5





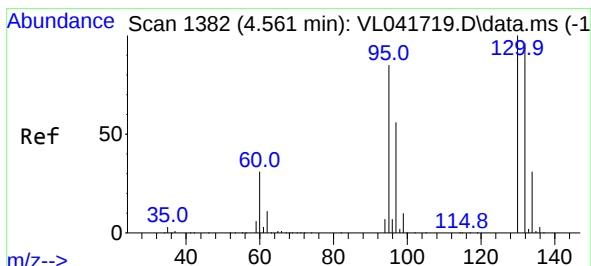
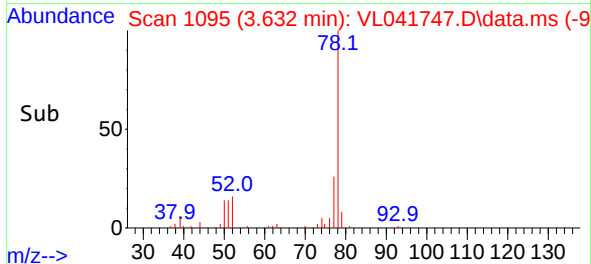
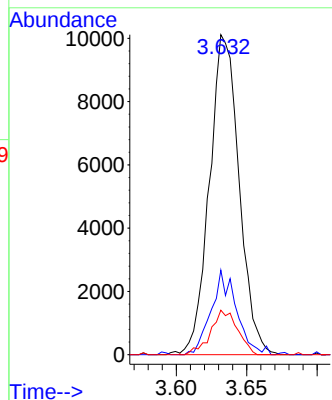
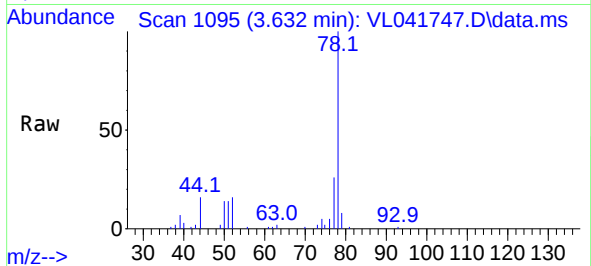
#36
Benzene
Concen: 0.171 ppbv
RT: 3.632 min Scan# 1095
Delta R.T. -0.033 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 78 Resp: 14799
Ion Ratio Lower Upper
78 100
77 26.4 18.6 27.8
50 13.9 9.5 14.3

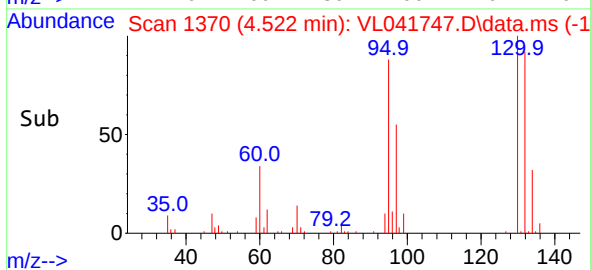
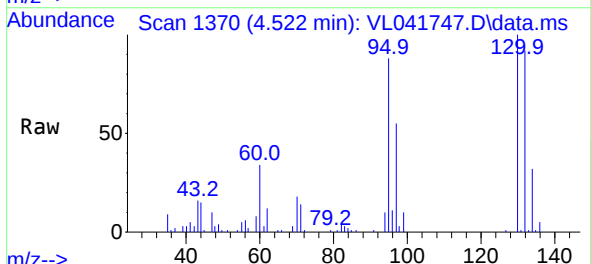
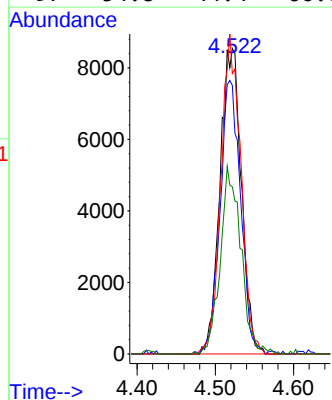
Manual Integrations
APPROVED

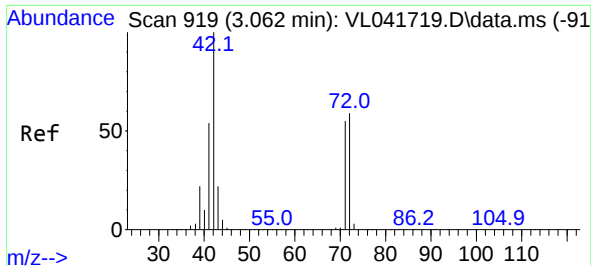
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#38
Trichloroethene
Concen: 0.361 ppbv m
RT: 4.522 min Scan# 1370
Delta R.T. -0.039 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Tgt Ion:130 Resp: 16168
Ion Ratio Lower Upper
130 100
95 87.9 68.0 102.0
132 91.8 76.5 114.7
97 54.8 44.4 66.6





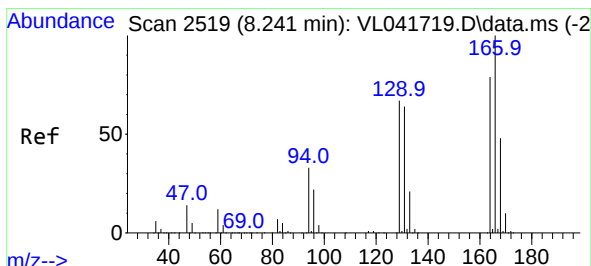
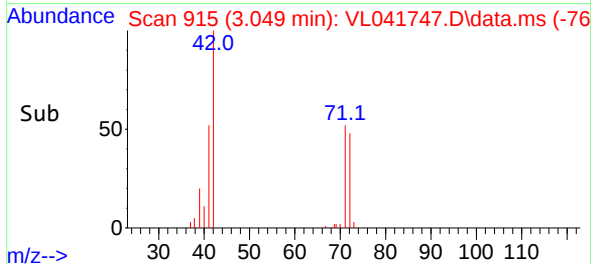
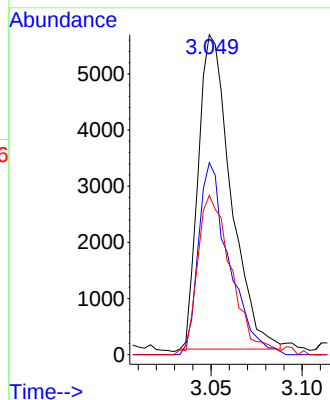
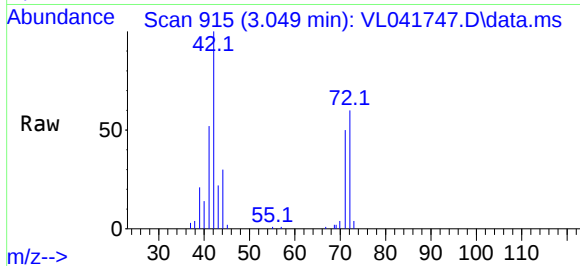
#41
Tetrahydrofuran
Concen: 0.300 ppbv
RT: 3.049 min Scan# 915
Delta R.T. -0.013 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 42 Resp: 6959
Ion Ratio Lower Upper
42 100
72 57.6 47.4 71.0
71 53.8 44.4 66.6

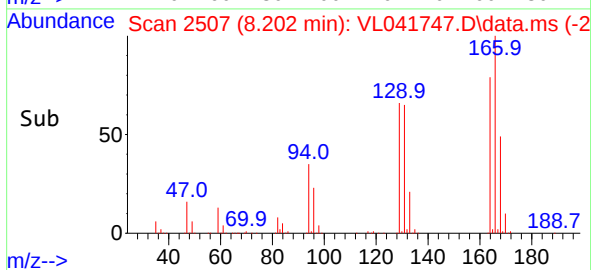
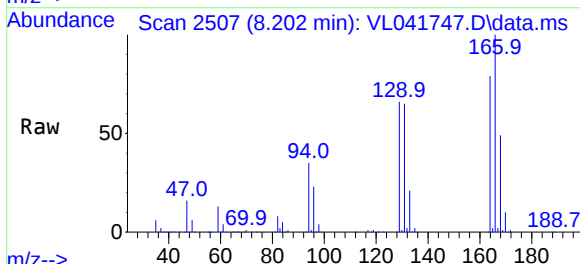
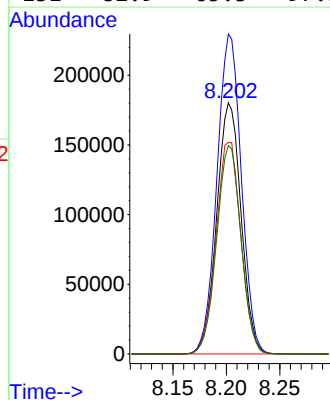
Manual Integrations
APPROVED

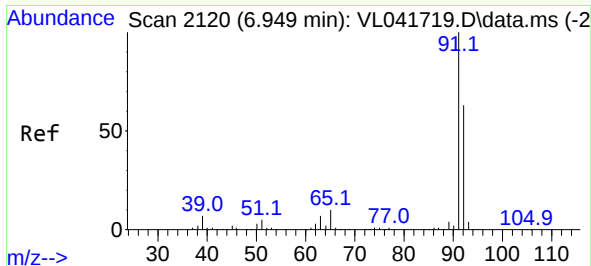
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#52
Tetrachloroethene
Concen: 6.255 ppbv
RT: 8.202 min Scan# 2507
Delta R.T. -0.039 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

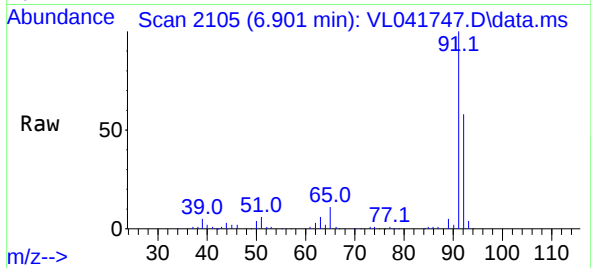
Tgt Ion:164 Resp: 285984
Ion Ratio Lower Upper
164 100
166 127.3 101.4 152.0
129 84.3 67.6 101.4
131 82.9 65.3 97.9





#53
Toluene
Concen: 0.830 ppbv
RT: 6.901 min Scan# 2105
Delta R.T. -0.049 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

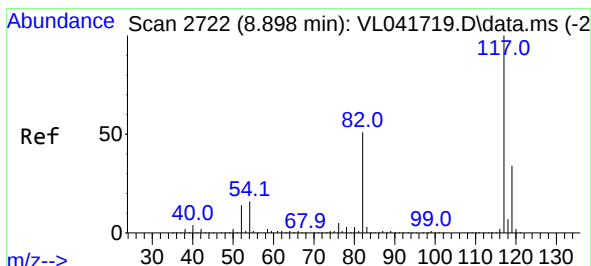
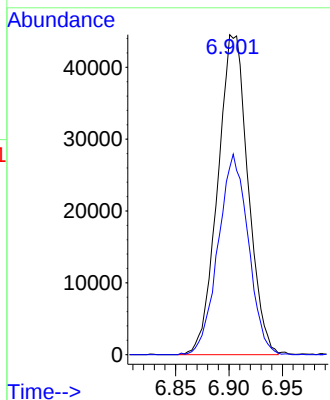
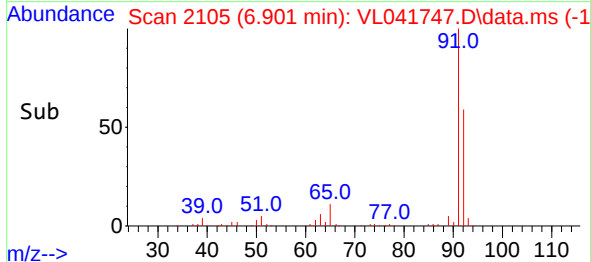
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



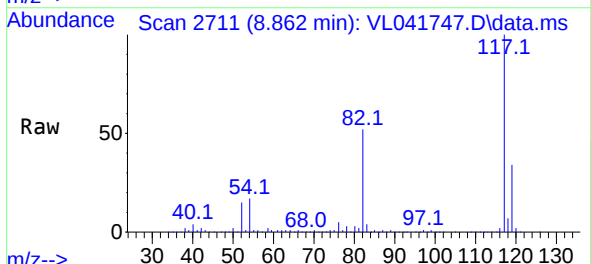
Tgt Ion: 91 Resp: 8806
Ion Ratio Lower Upper
91 100
92 62.2 49.7 74.5

Manual Integrations
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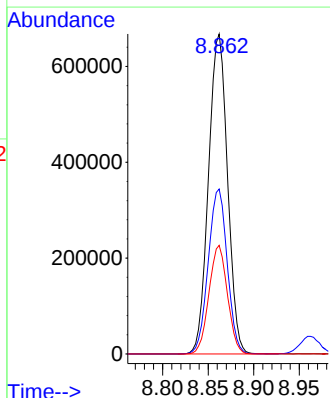
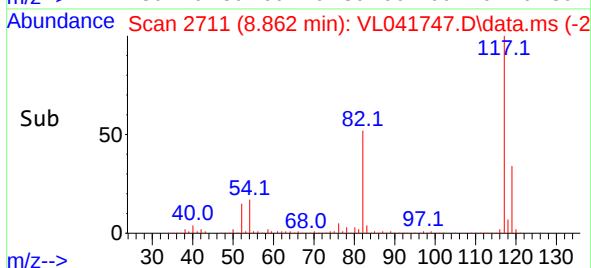
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

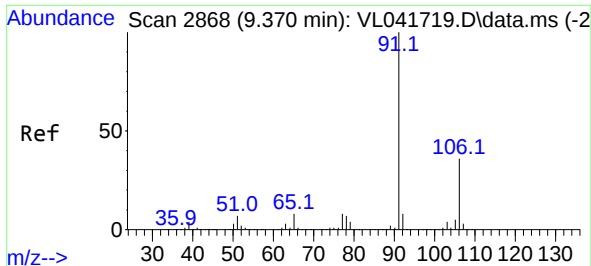


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.036 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



Tgt Ion:117 Resp: 968906
Ion Ratio Lower Upper
117 100
82 51.6 41.3 61.9
119 33.1 25.8 38.8





#58

Ethyl Benzene

Concen: 0.338 ppbv

RT: 9.338 min Scan# 21

Delta R.T. -0.033 min

Lab File: VL041747.D

Acq: 12 Dec 2024 12:37

Instrument :

MSVOA_L

ClientSampleId :

SV3DL

Tgt Ion: 91 Resp: 4386

Ion Ratio Lower Upper

91 100

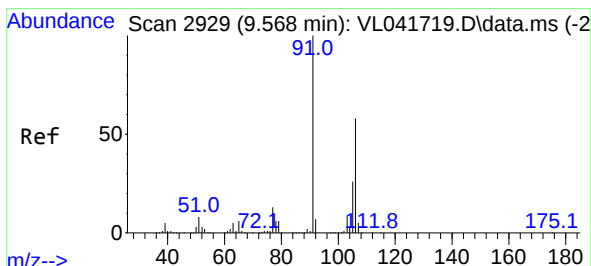
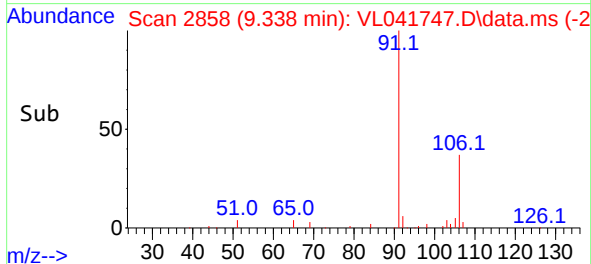
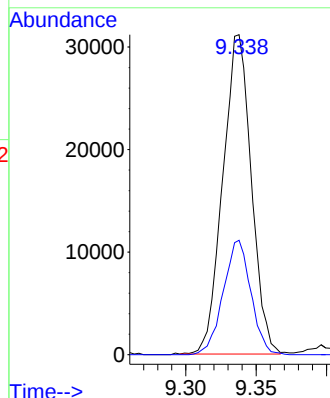
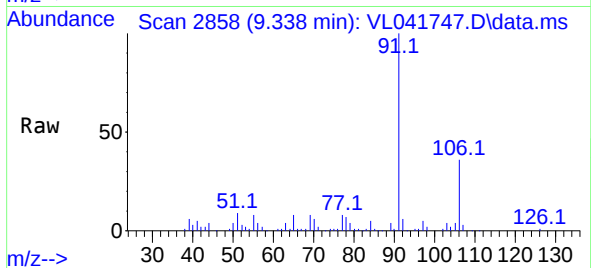
106 35.8 28.6 43.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#59

m/p-Xylene

Concen: 0.757 ppbv

RT: 9.513 min Scan# 2912

Delta R.T. -0.055 min

Lab File: VL041747.D

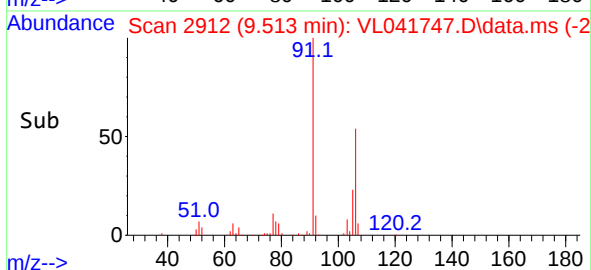
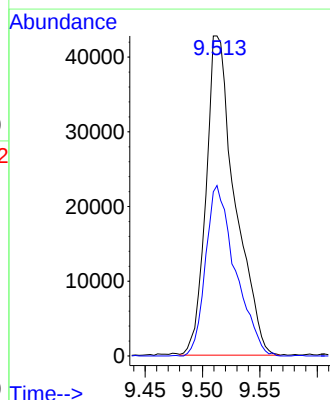
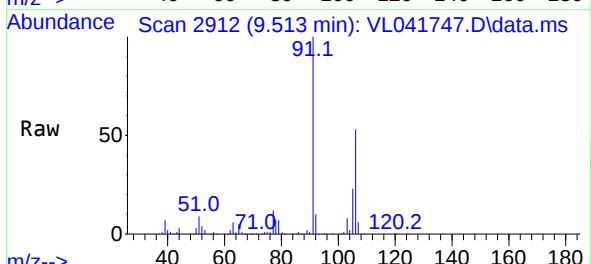
Acq: 12 Dec 2024 12:37

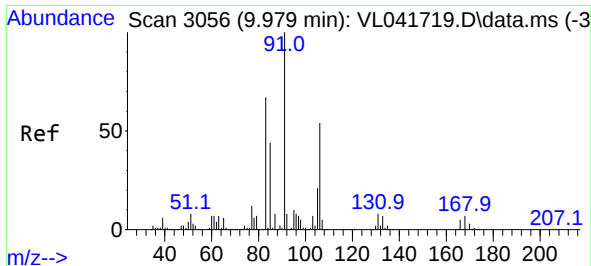
Tgt Ion: 91 Resp: 75214

Ion Ratio Lower Upper

91 100

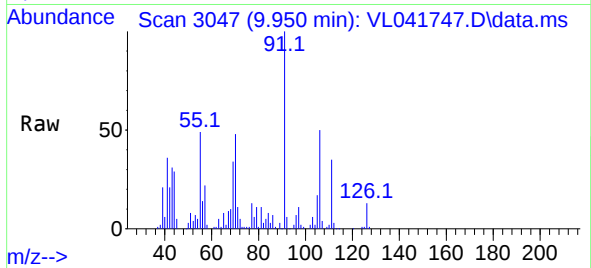
106 54.6 45.1 67.7





#60
o-Xylene
Concen: 0.354 ppbv
RT: 9.950 min Scan# 3056
Delta R.T. -0.029 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

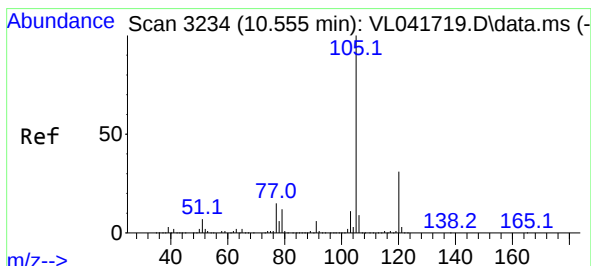
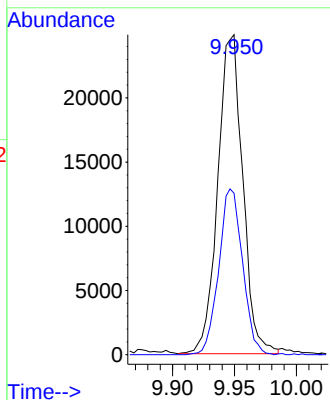
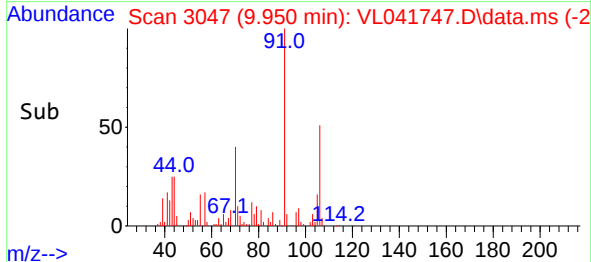
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



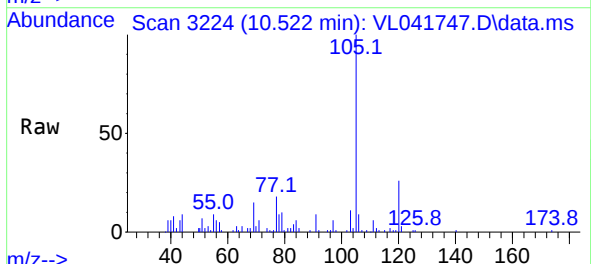
Tgt Ion: 91 Resp: 3491
Ion Ratio Lower Upper
91 100
106 49.7 26.8 80.4

Manual Integrations
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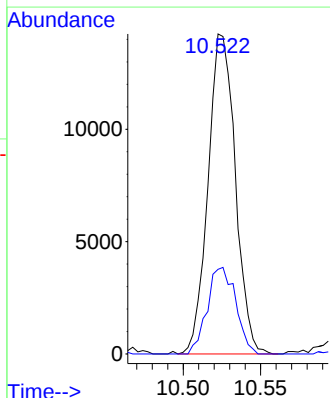
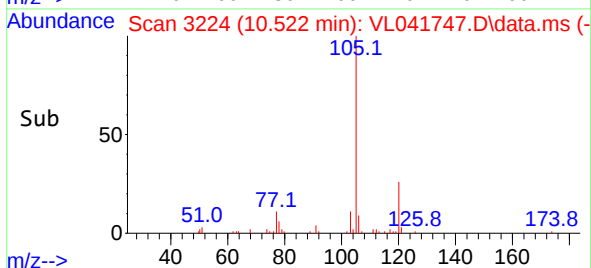
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

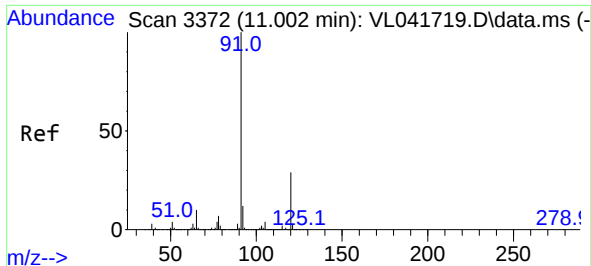


#62
Isopropylbenzene
Concen: 0.107 ppbv
RT: 10.522 min Scan# 3224
Delta R.T. -0.033 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



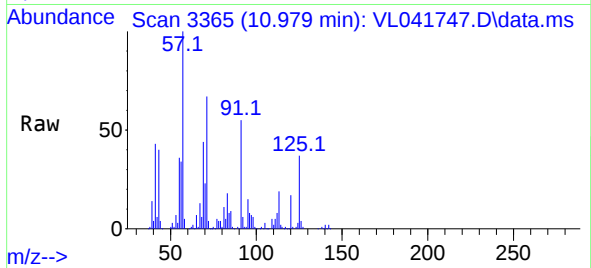
Tgt Ion:105 Resp: 17437
Ion Ratio Lower Upper
105 100
120 28.2 24.3 36.5





#64
n-propylbenzene
Concen: 0.202 ppbv
RT: 10.979 min Scan# 3174
Delta R.T. -0.023 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

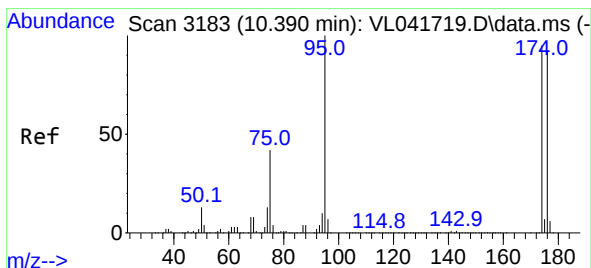
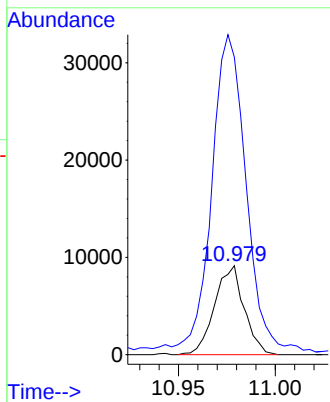
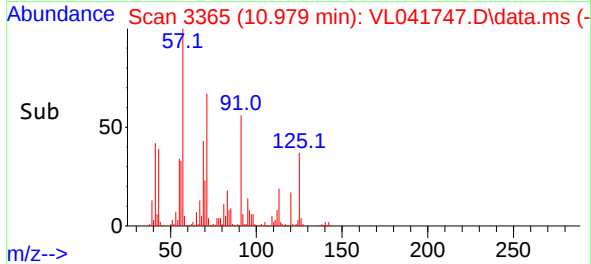
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



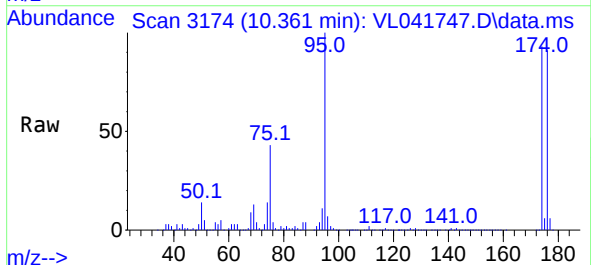
Tgt Ion:120 Resp: 9672
Ion Ratio Lower Upper
120 100
91 419.9 290.8 436.2

Manual Integrations
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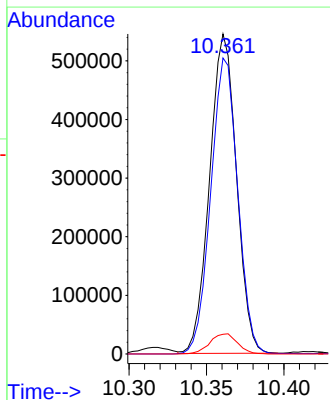
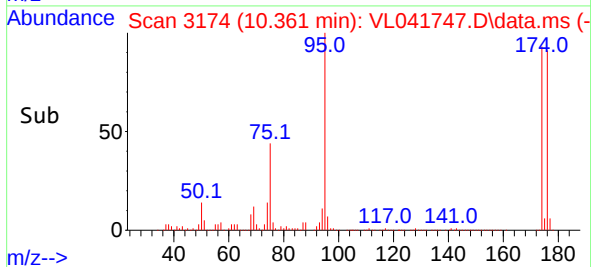
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

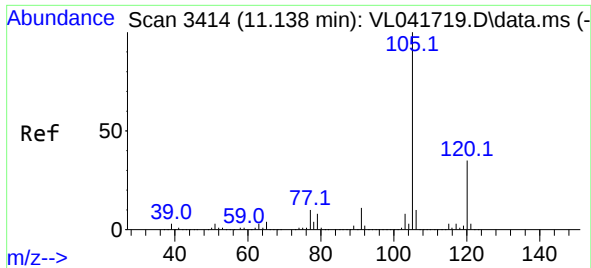


#68
1-Bromo-4-Fluorobenzene
Concen: 10.329 ppbv
RT: 10.361 min Scan# 3174
Delta R.T. -0.029 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37



Tgt Ion: 95 Resp: 657921
Ion Ratio Lower Upper
95 100
174 93.1 76.7 115.1
175 6.5 5.4 8.2





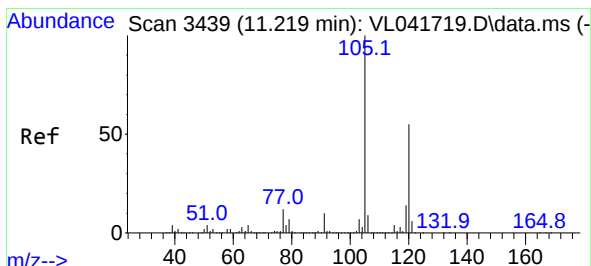
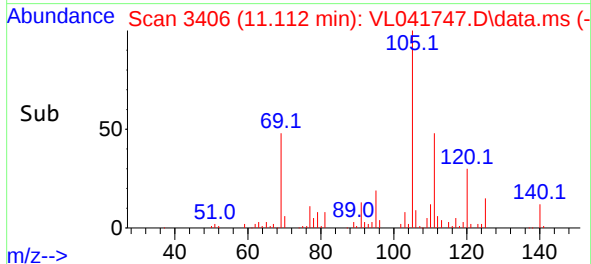
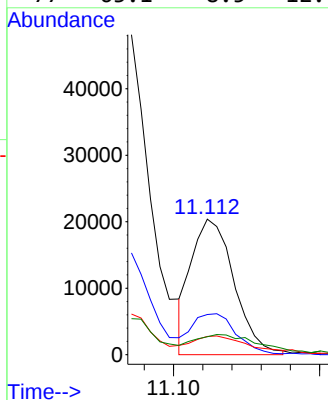
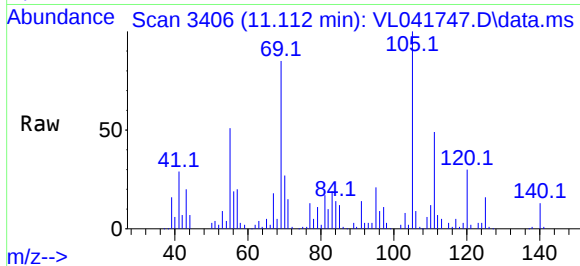
#72
4-Ethyltoluene
Concen: 0.163 ppbv m
RT: 11.112 min Scan# 3414
Delta R.T. -0.026 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion:105 Resp: 20730
Ion Ratio Lower Upper
105 100
120 126.3 28.0 42.0
91 59.3 8.8 13.2
77 63.1 8.5 12.7

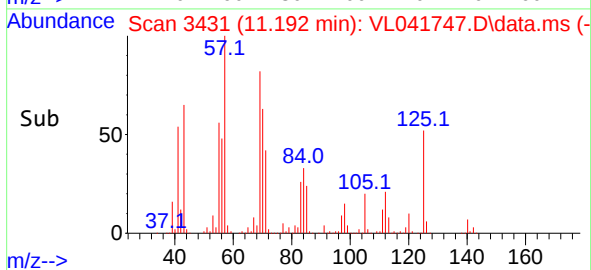
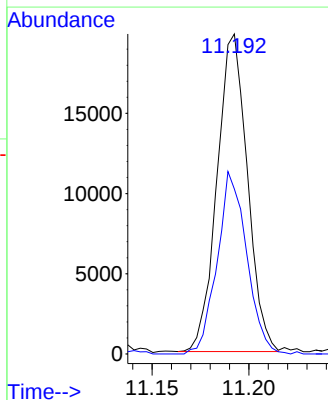
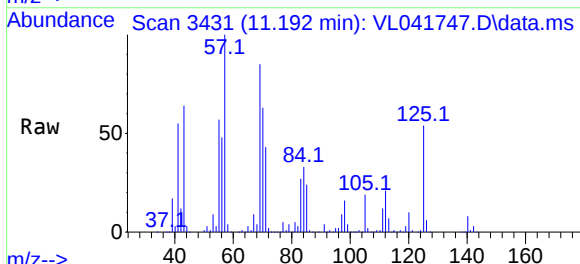
Manual Integrations
APPROVED

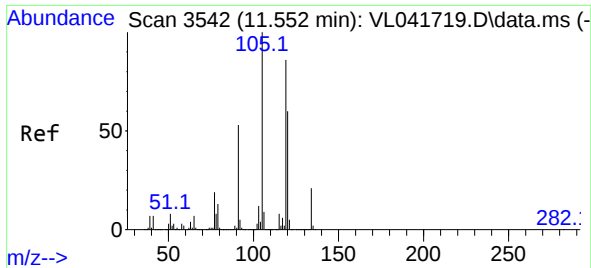
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.209 ppbv
RT: 11.192 min Scan# 3431
Delta R.T. -0.026 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

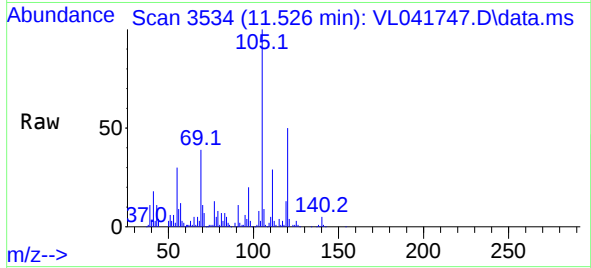
Tgt Ion:105 Resp: 21547
Ion Ratio Lower Upper
105 100
120 52.0 43.6 65.4





#74
1,2,4-Trimethylbenzene
Concen: 0.350 ppbv
RT: 11.526 min Scan# 3534
Delta R.T. -0.026 min
Lab File: VL041747.D
Acq: 12 Dec 2024 12:37

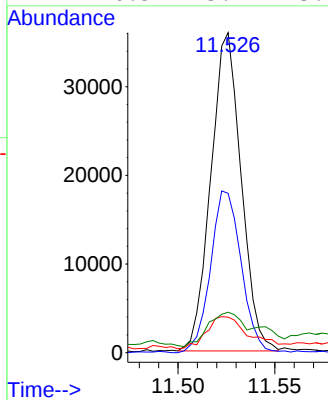
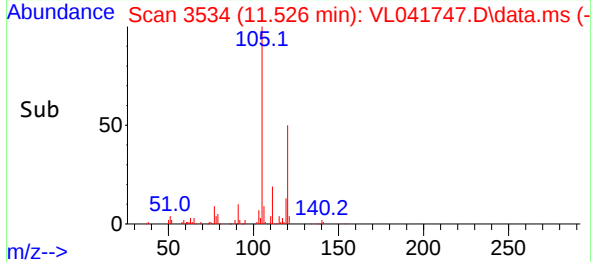
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



Tgt Ion:	105	Resp:	39130
Ion	Ratio	Lower	Upper
105	100		
120	50.1	47.8	71.6
91	9.9	42.5	63.7
77	10.5	15.4	23.2

Manual Integrations
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Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	IA3	SDG No.:	P5150
Lab Sample ID:	P5150-04	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
VL041739.D	1		12/12/24 08:26	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
142-82-5	Heptane	23.1	94.7	E	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	15.6	53.7	E	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	6.80	21.7		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	30.7	116	E	0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.12	0.81		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	12.0	52.1		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	32.4	141	E	0.91	4.34	ug/m3
95-47-6	o-Xylene	13.4	58.2		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.80	23.6		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	13.8	67.8		0.39	2.46	ug/m3
91-20-3	Naphthalene	0.62	3.25		0.42	0.52	ug/m3
110-54-3	Hexane	10.5	37.0		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	249000		2.777			
540-36-3	1,4-Difluorobenzene	1200000		3.942			
3114-55-4	Chlorobenzene-d5	1110000		8.869			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041739.D
 Acq On : 12 Dec 2024 08:26
 Operator : SY/MD
 Sample : P5150-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 08:53:16 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 07:13:56 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	249132	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	1203286	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	1109265	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	740905	10.160	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.600%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	18265	0.418	ppbv	96
3) Chlorodifluoromethane	1.470	51	7432m	0.219	ppbv	
4) Chloromethane	1.528	50	5025	0.433	ppbv	99
9) Propene	1.483	41	20461m	1.415	ppbv	
10) Heptane	4.959	43	925187	23.141	ppbv	99
11) Trichlorofluoromethane	1.871	101	11108	0.221	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.133	101	2957	0.065	ppbv	96
13) Ethanol	1.712	45	497251	415.694	ppbv	95
15) Acetone	1.829	43	134011	4.659	ppbv #	87
19) Isopropyl Alcohol	1.881	45	47923	1.754	ppbv #	58
20) Methylene Chloride	2.052	84	6985	0.401	ppbv	94
26) Hexane	2.816	57	408112	10.526	ppbv #	43
30) Cyclohexane	3.842	84	681033	15.630	ppbv	98
34) 2-Butanone	2.551	43	13099	0.311	ppbv	97
35) Carbon Tetrachloride	3.745	117	3239m	0.058	ppbv	
36) Benzene	3.641	78	639755	6.762	ppbv	100
52) Tetrachloroethene	8.208	164	6045	0.121	ppbv	88
53) Toluene	6.914	91	3569413	30.700	ppbv	98
58) Ethyl Benzene	9.344	91	1774836	11.956	ppbv	100
59) m/p-Xylene	9.522	91	3682516	32.380	ppbv	99
60) o-Xylene	9.956	91	1510074	13.389	ppbv	99
62) Isopropylbenzene	10.532	105	318661	1.713	ppbv	97
64) n-propylbenzene	10.982	120	207402	3.786	ppbv	90
65) tert-Butylbenzene	11.532	119	232560	1.319	ppbv #	71
67) sec-Butylbenzene	11.762	105	220314	0.965	ppbv	92
69) p-Isopropyltoluene	11.921	119	99366	0.505	ppbv	96
70) n-Butylbenzene	12.277	91	240477	1.472	ppbv #	43
72) 4-Ethyltoluene	11.118	105	757402m	5.201	ppbv	
73) 1,3,5-Trimethylbenzene	11.199	105	571142	4.848	ppbv	100
74) 1,2,4-Trimethylbenzene	11.532	105	1761093	13.750	ppbv #	70
79) Naphthalene	13.510	128	67426	0.615	ppbv	98

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

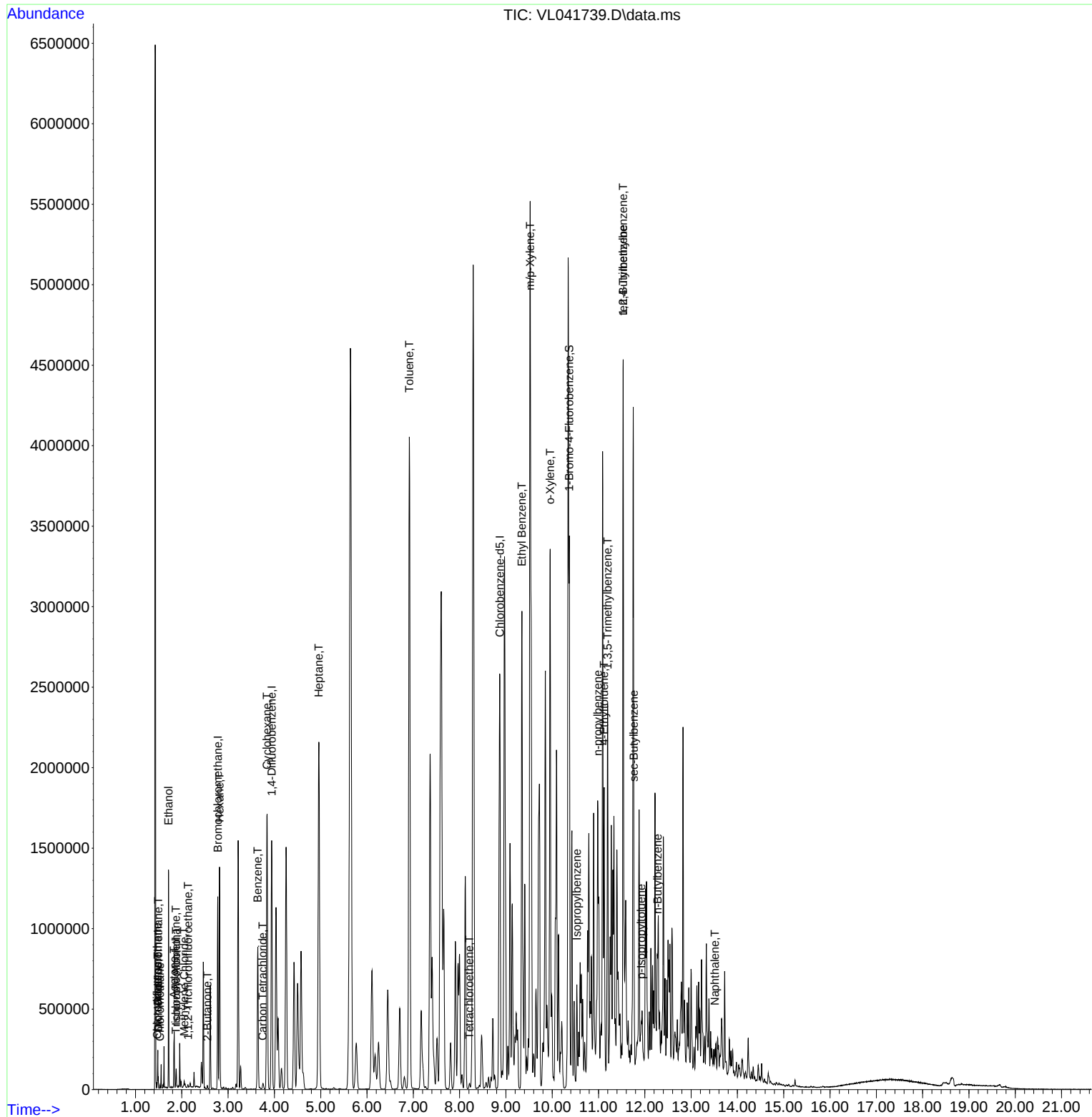
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041739.D
Acq On : 12 Dec 2024 08:26
Operator : SY/MD
Sample : P5150-04
Misc : 400mL/MSVOA_L
ALS Vial : 7 Sample Multiplier: 1

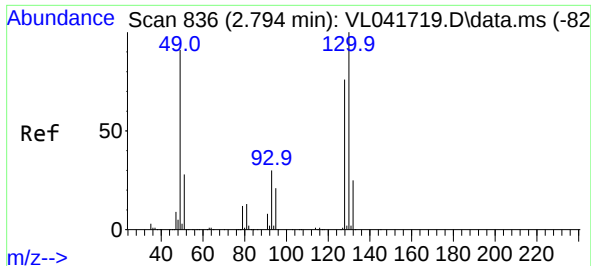
Instrument :
MSVOA_L
ClientSampleId :
IA3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

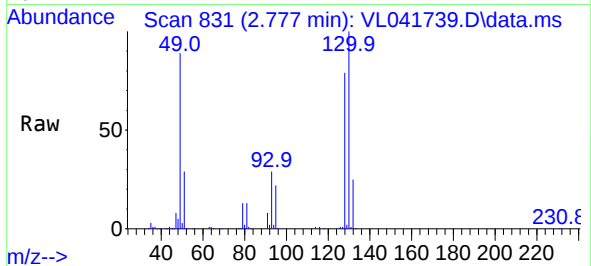
Quant Time: Dec 12 08:53:16 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 07:13:56 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.017 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

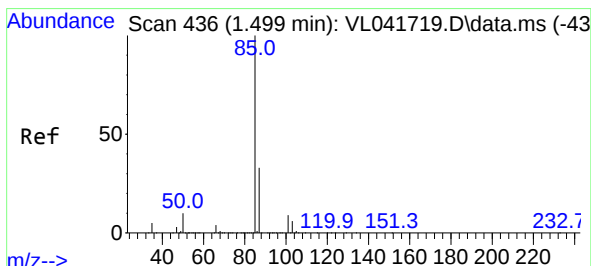
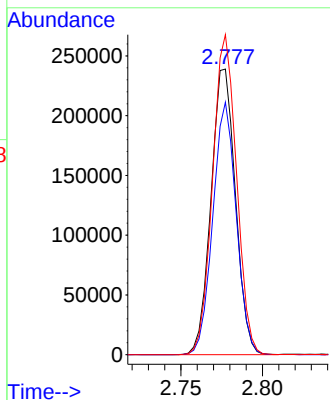
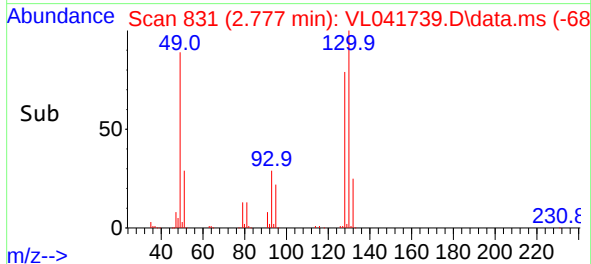
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 49 Resp: 24913
Ion Ratio Lower Upper
49 100
128 84.5 42.8 128.3
130 109.5 55.8 167.4

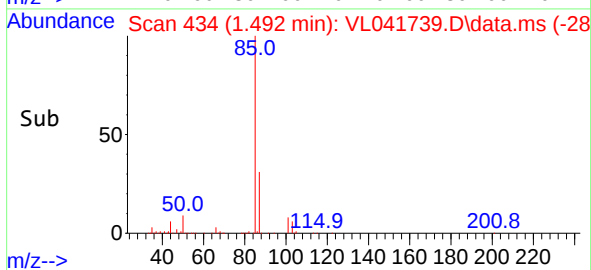
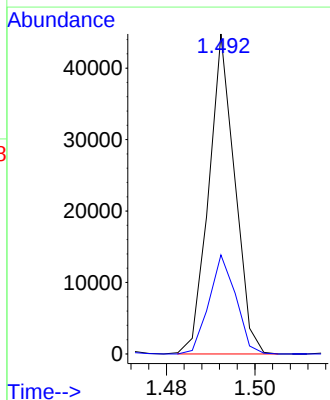
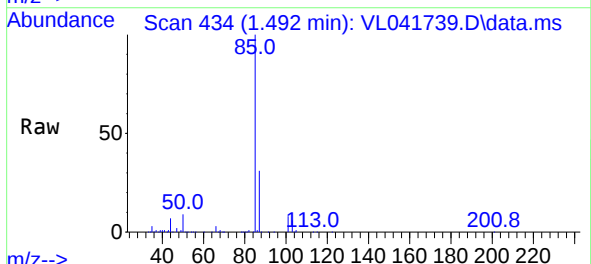
Manual Integrations
APPROVED

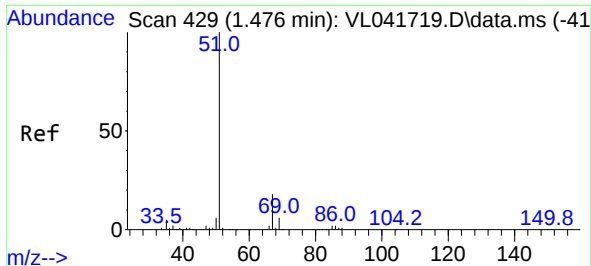
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#2
Dichlorodifluoromethane
Concen: 0.418 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

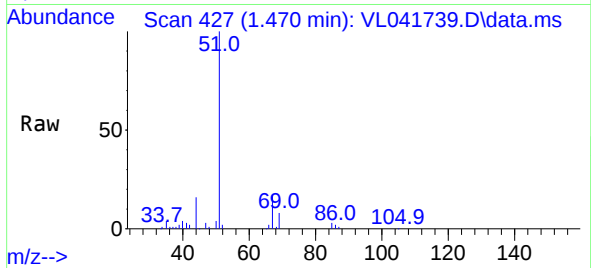
Tgt Ion: 85 Resp: 18265
Ion Ratio Lower Upper
85 100
87 30.9 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.219 ppbv m
RT: 1.470 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

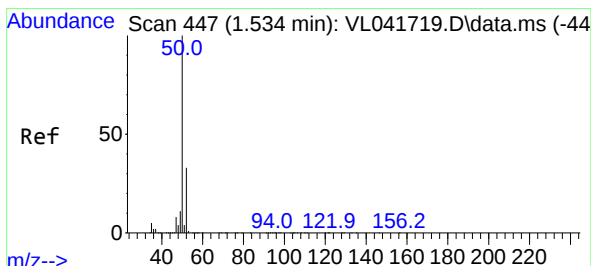
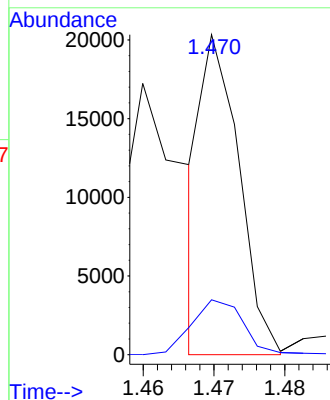
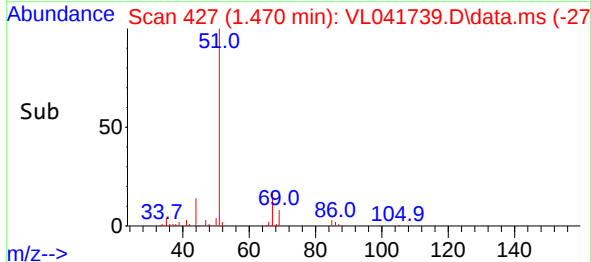
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 51 Resp: 743
Ion Ratio Lower Upper
51 100
67 4.3 14.6 21.8

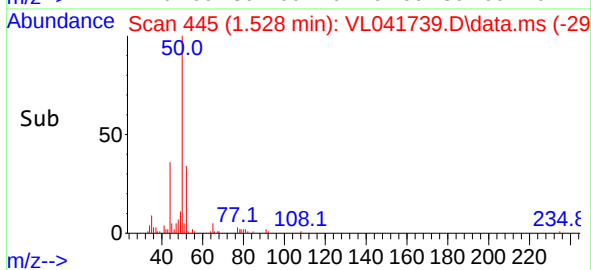
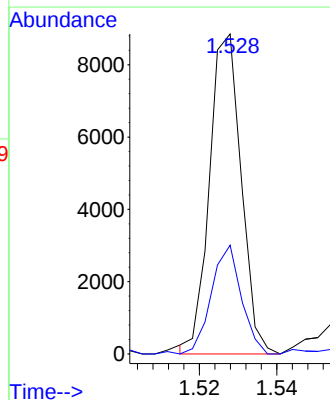
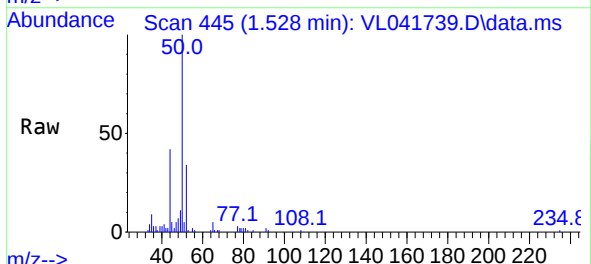
Manual Integrations
APPROVED

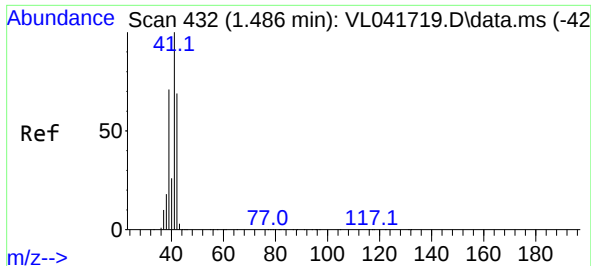
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#4
Chloromethane
Concen: 0.433 ppbv
RT: 1.528 min Scan# 445
Delta R.T. -0.007 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

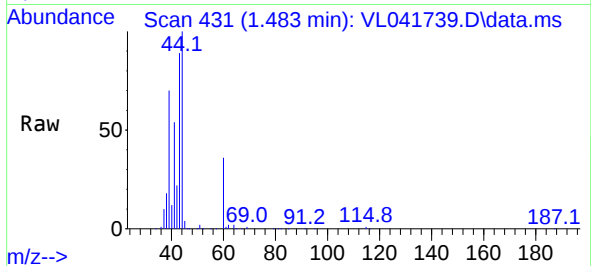
Tgt Ion: 50 Resp: 5025
Ion Ratio Lower Upper
50 100
52 34.0 26.6 40.0





#9
Propene
Concen: 1.415 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

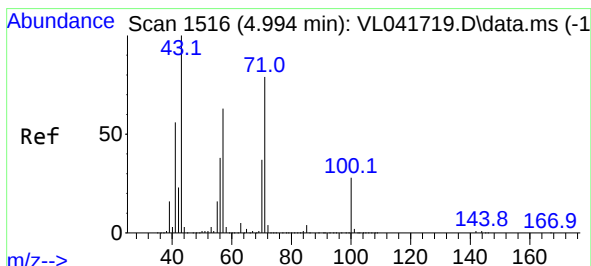
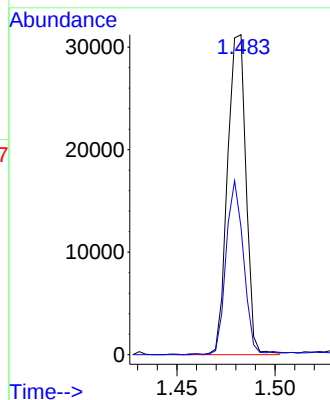
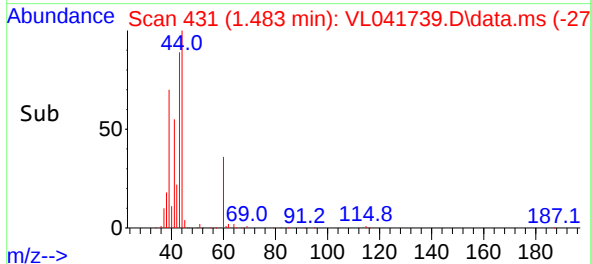
Instrument :
MSVOA_L
ClientSampleId :
IA3



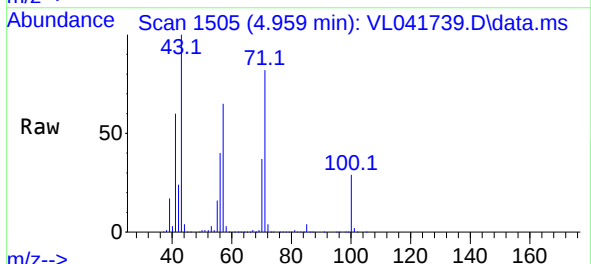
Tgt Ion: 41 Resp: 2046
Ion Ratio Lower Upper
41 100
42 48.6 56.2 84.4

Manual Integrations
APPROVED

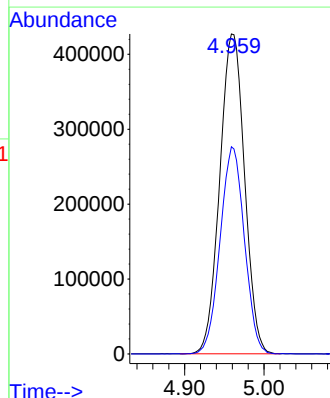
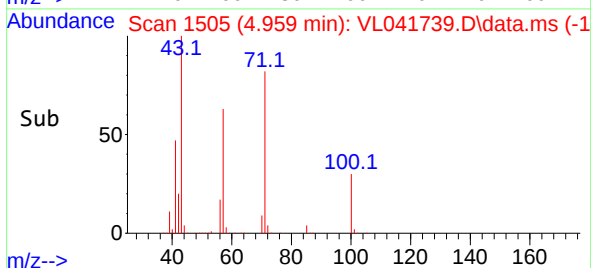
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

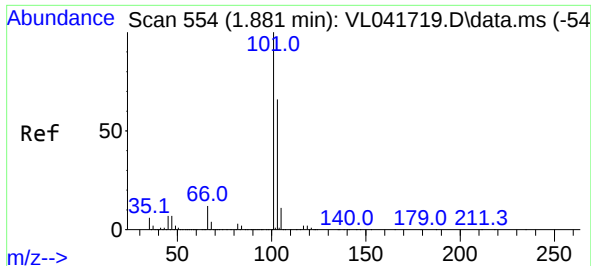


#10
Heptane
Concen: 23.141 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. -0.036 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



Tgt Ion: 43 Resp: 925187
Ion Ratio Lower Upper
43 100
57 63.5 50.5 75.7





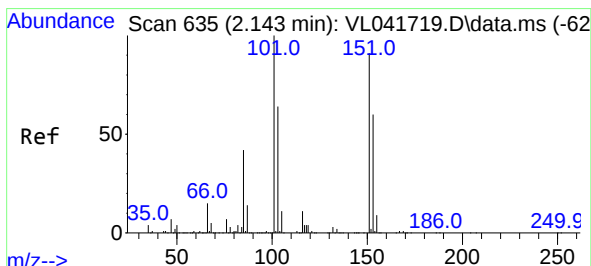
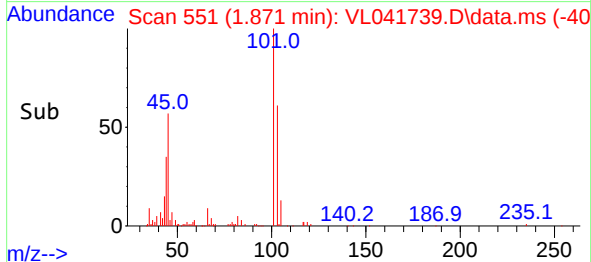
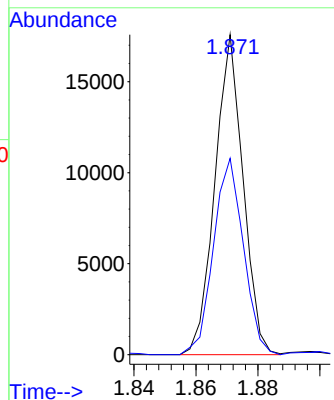
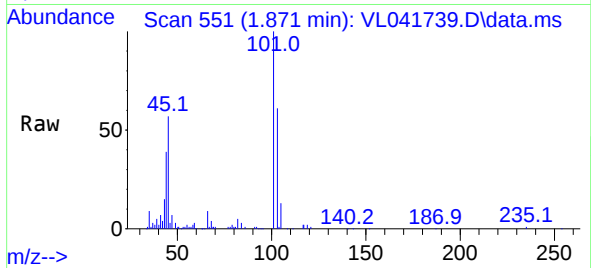
#11
Trichlorofluoromethane
Concen: 0.221 ppbv
RT: 1.871 min Scan# 511
Delta R.T. -0.010 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion:101 Resp: 11108
Ion Ratio Lower Upper
101 100
103 61.3 52.7 79.1

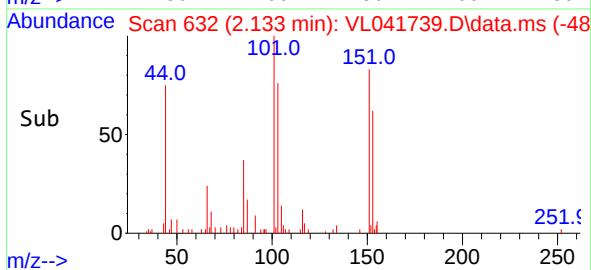
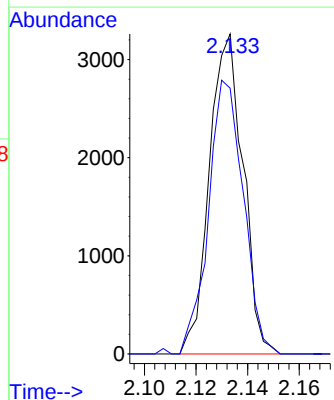
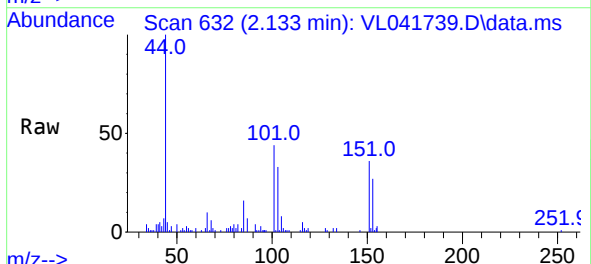
Manual Integrations
APPROVED

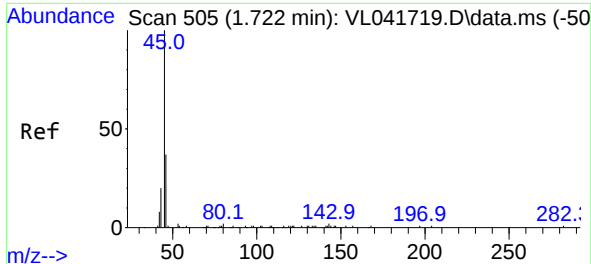
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.065 ppbv
RT: 2.133 min Scan# 632
Delta R.T. -0.010 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

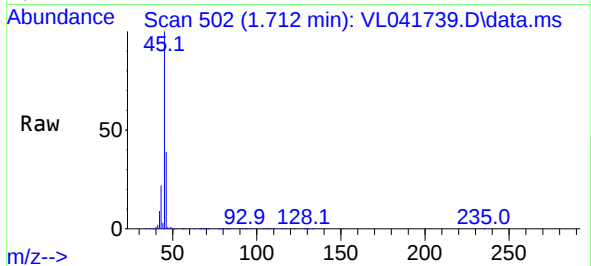
Tgt Ion:101 Resp: 2957
Ion Ratio Lower Upper
101 100
151 89.0 74.4 111.6





#13
Ethanol
Concen: 415.694 ppbv
RT: 1.712 min Scan# 50
Delta R.T. -0.010 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

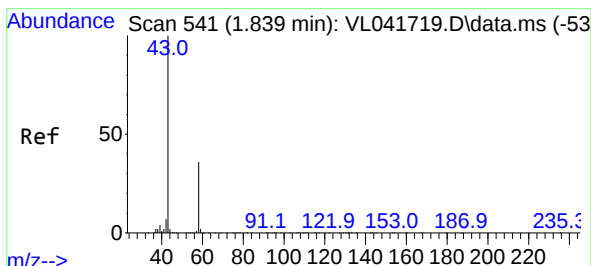
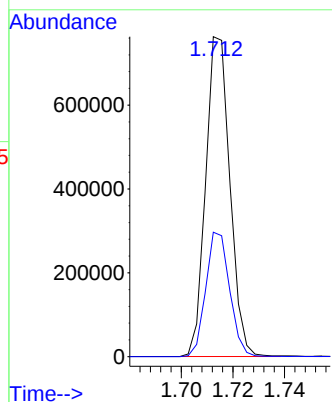
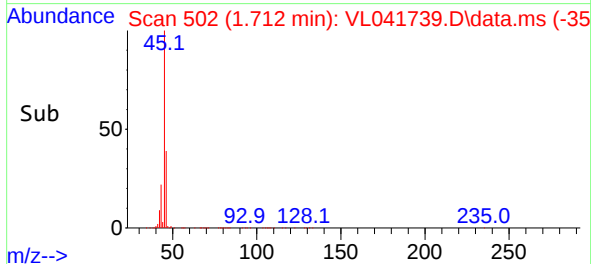
Instrument :
MSVOA_L
ClientSampleId :
IA3



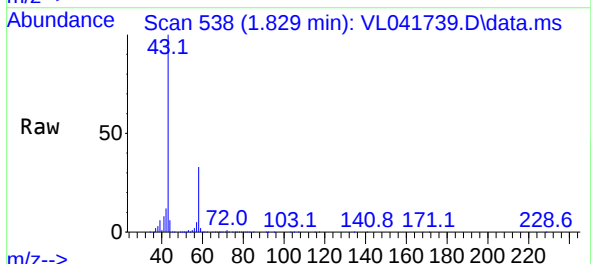
Tgt Ion: 45 Resp: 49725
Ion Ratio Lower Upper
45 100
46 38.6 16.6 66.6

Manual Integrations
APPROVED

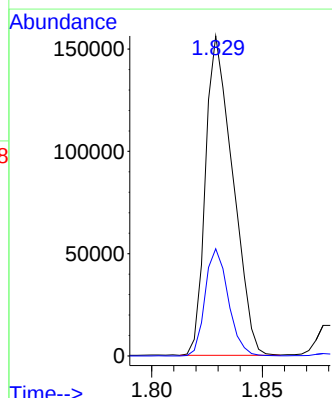
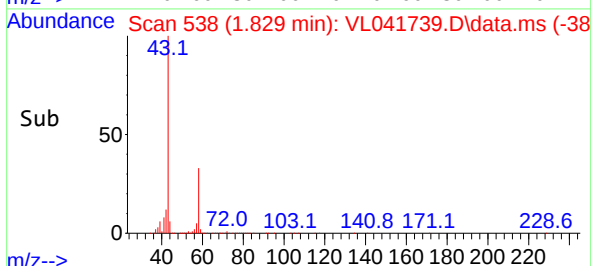
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

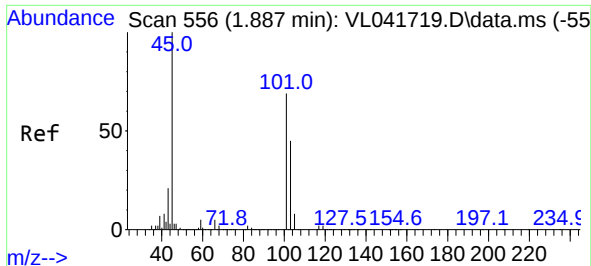


#15
Acetone
Concen: 4.659 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.010 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



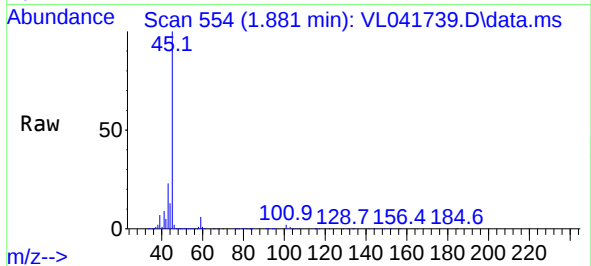
Tgt Ion: 43 Resp: 134011
Ion Ratio Lower Upper
43 100
58 28.6 28.9 43.3#





#19
Isopropyl Alcohol
Concen: 1.754 ppbv
RT: 1.881 min Scan# 511
Delta R.T. -0.007 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

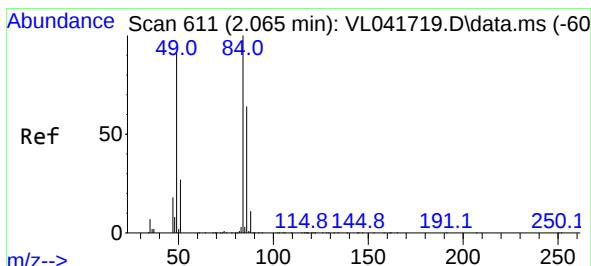
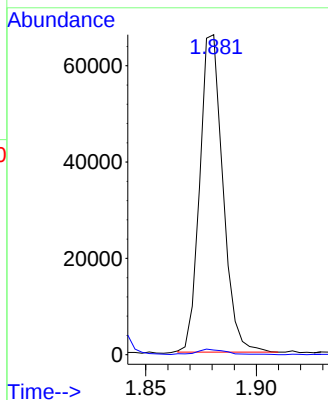
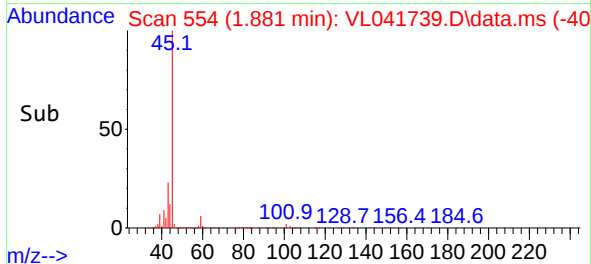
Instrument :
MSVOA_L
ClientSampleId :
IA3



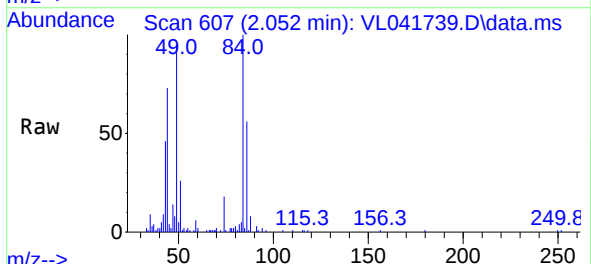
Tgt Ion: 45 Resp: 47923
Ion Ratio Lower Upper
45 100
58 79.9 40.6 61.0

Manual Integrations
APPROVED

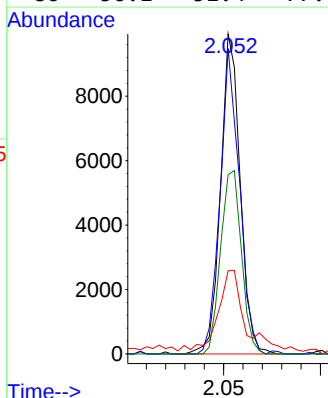
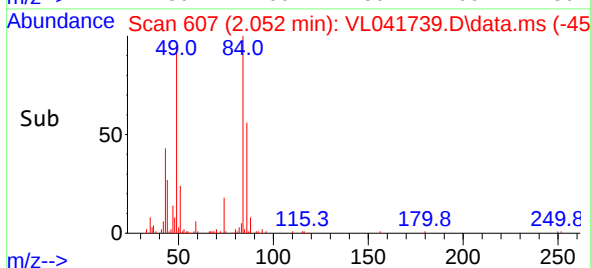
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

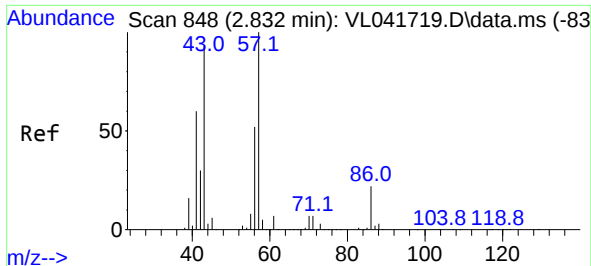


#20
Methylene Chloride
Concen: 0.401 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



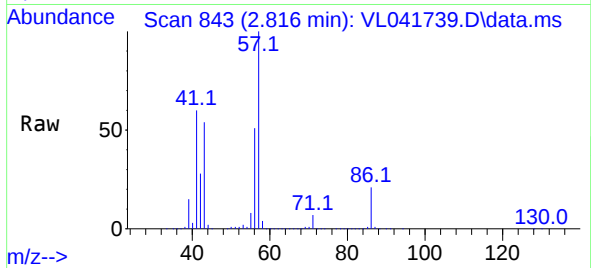
Tgt Ion: 84 Resp: 6985
Ion Ratio Lower Upper
84 100
49 95.4 73.6 110.4
51 25.0 22.7 34.1
86 56.1 51.4 77.0





#26
Hexane
Concen: 10.526 ppbv
RT: 2.816 min Scan# 84
Delta R.T. -0.016 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

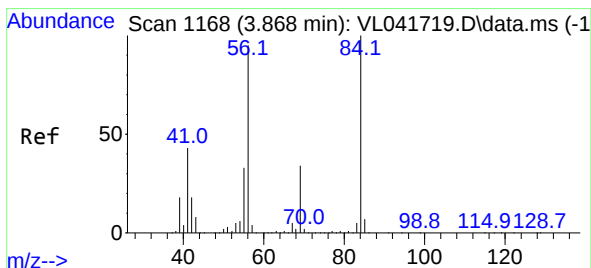
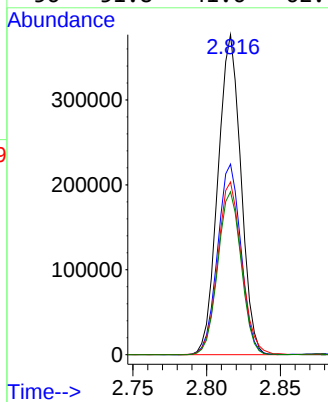
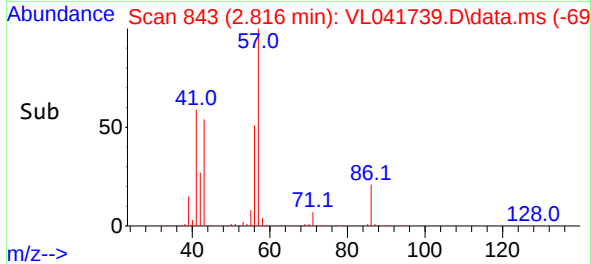
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 57 Resp: 408112
Ion Ratio Lower Upper
57 100
41 60.6 49.5 74.3
43 56.3 150.6 225.8
56 51.8 41.6 62.4

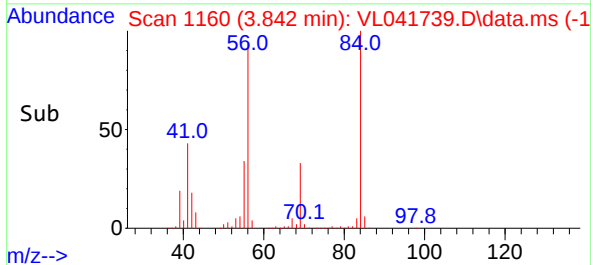
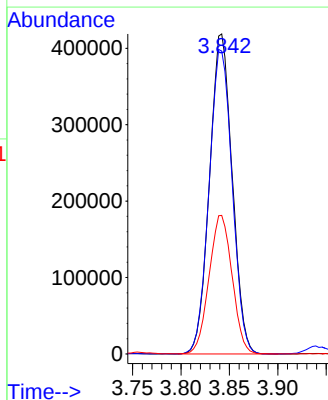
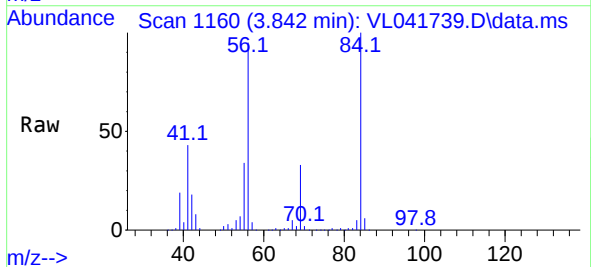
Manual Integrations
APPROVED

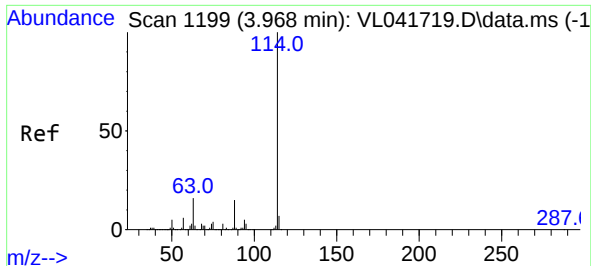
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#30
Cyclohexane
Concen: 15.630 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. -0.026 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

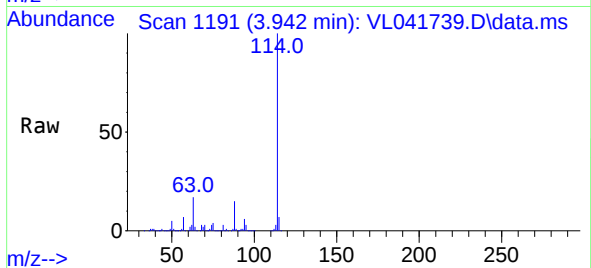
Tgt Ion: 84 Resp: 681033
Ion Ratio Lower Upper
84 100
56 96.9 76.0 114.0
41 44.1 34.2 51.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.942 min Scan# 1191
Delta R.T. -0.026 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

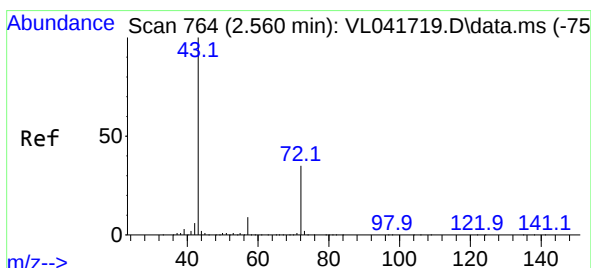
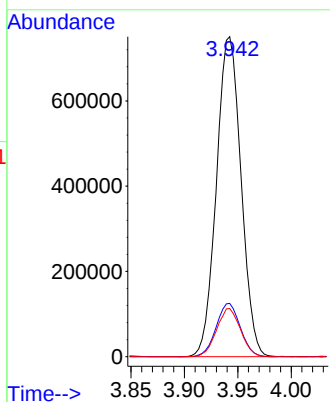
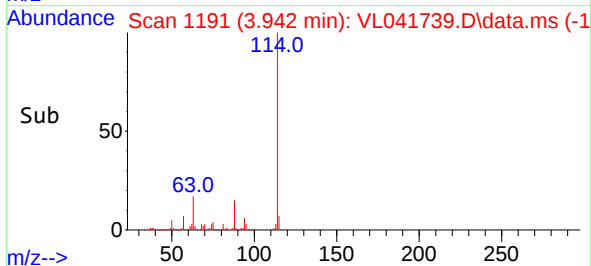
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:114 Resp: 1203280
Ion Ratio Lower Upper
114 100
63 16.3 12.9 19.3
88 14.7 11.8 17.6

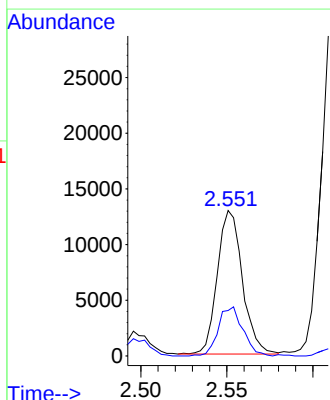
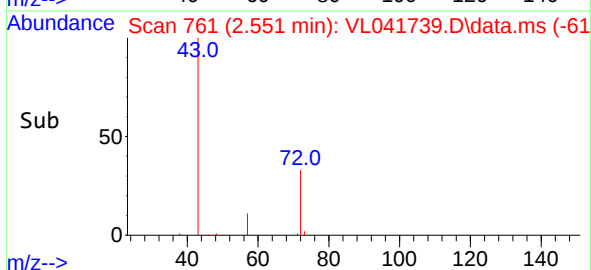
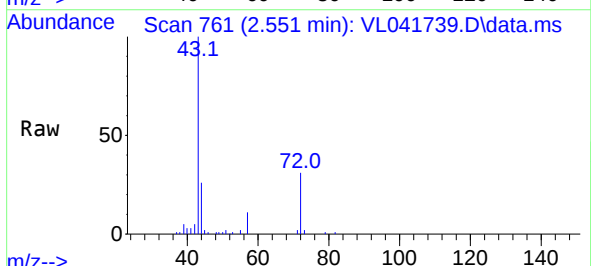
Manual Integrations
APPROVED

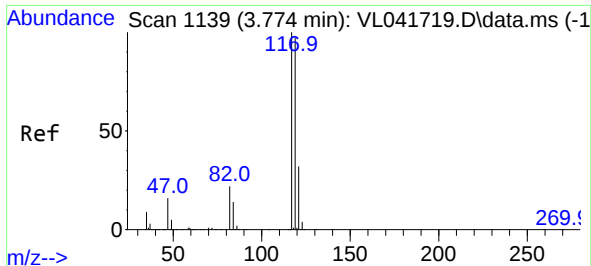
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#34
2-Butanone
Concen: 0.311 ppbv
RT: 2.551 min Scan# 761
Delta R.T. -0.010 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

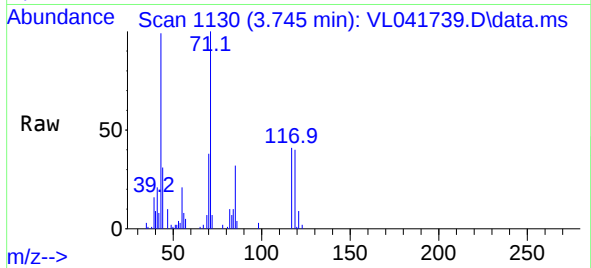
Tgt Ion: 43 Resp: 13099
Ion Ratio Lower Upper
43 100
72 33.8 28.3 42.5





#35
Carbon Tetrachloride
Concen: 0.058 ppbv m
RT: 3.745 min Scan# 1139
Delta R.T. -0.029 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

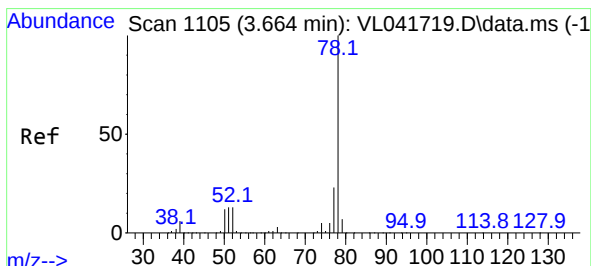
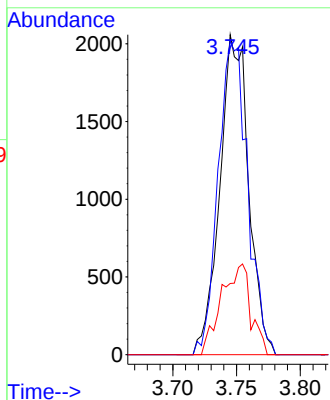
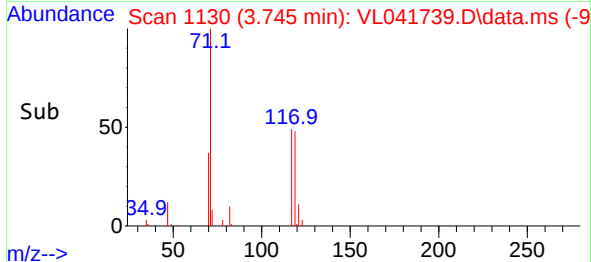
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion: 117 Resp: 3239
Ion Ratio Lower Upper
117 100
119 98.0 77.7 116.5
121 22.2 25.5 38.3

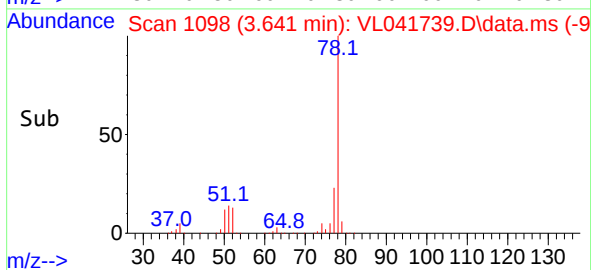
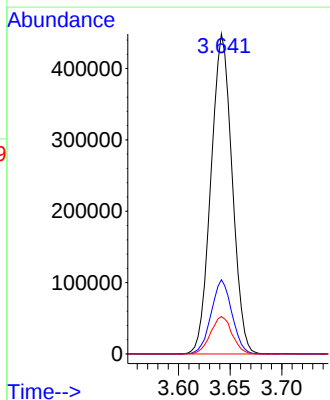
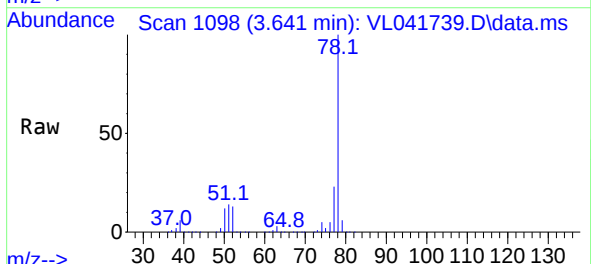
Manual Integrations
APPROVED

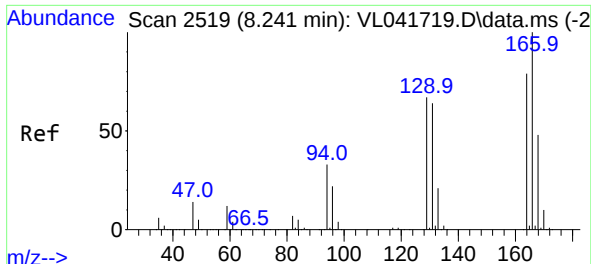
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#36
Benzene
Concen: 6.762 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Tgt Ion: 78 Resp: 639755
Ion Ratio Lower Upper
78 100
77 23.2 18.6 27.8
50 11.7 9.5 14.3





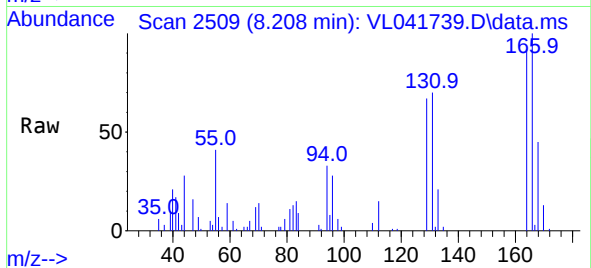
#52
Tetrachloroethene
Concen: 0.121 ppbv
RT: 8.208 min Scan# 2109
Delta R.T. -0.032 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Instrument :

MSVOA_L

ClientSampleId :

IA3

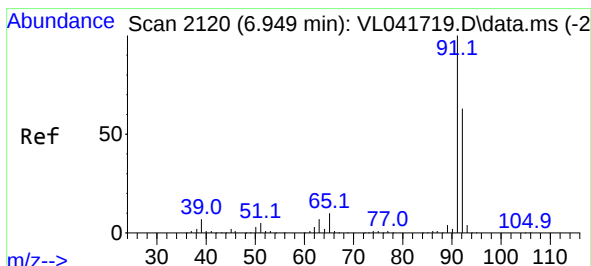
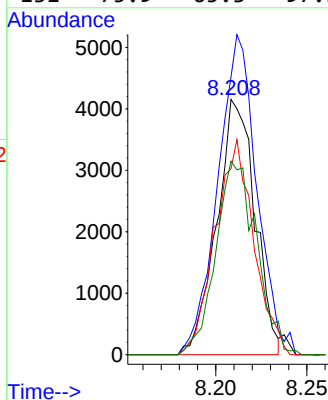
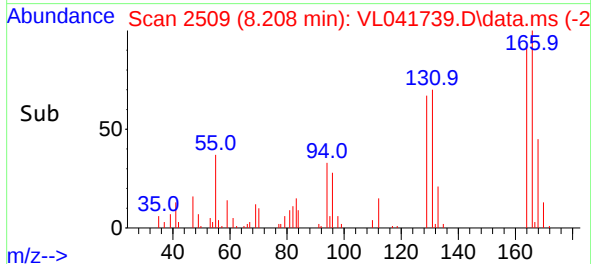


Tgt Ion:164 Resp: 6049
Ion Ratio Lower Upper
164 100
166 108.9 101.4 152.0
129 72.9 67.6 101.4
131 75.9 65.3 97.9

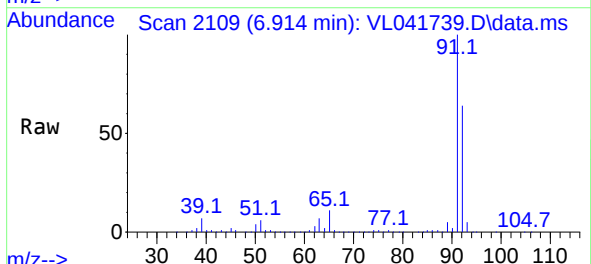
Manual Integrations

APPROVED

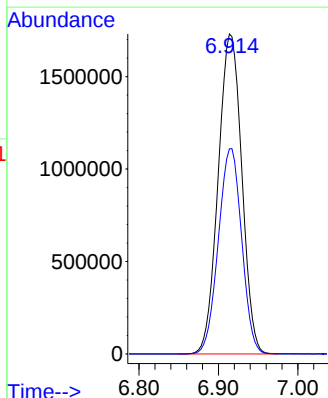
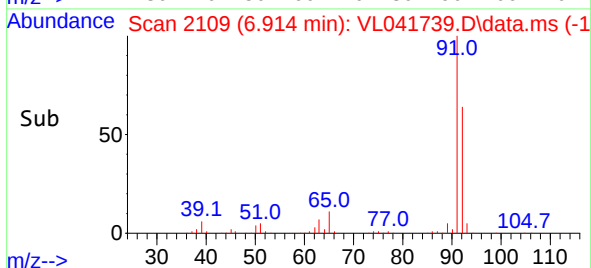
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

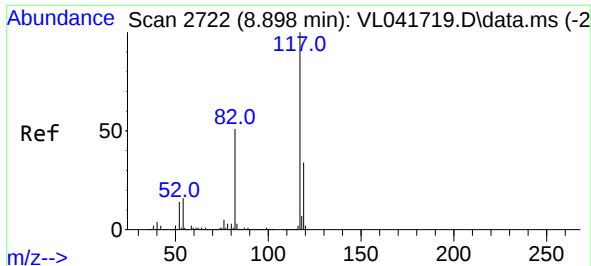


#53
Toluene
Concen: 30.700 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. -0.036 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



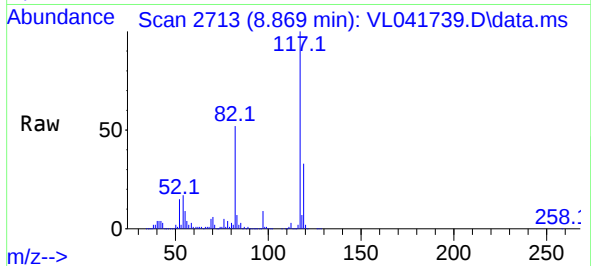
Tgt Ion: 91 Resp: 3569413
Ion Ratio Lower Upper
91 100
92 63.4 49.7 74.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 2117
Delta R.T. -0.029 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

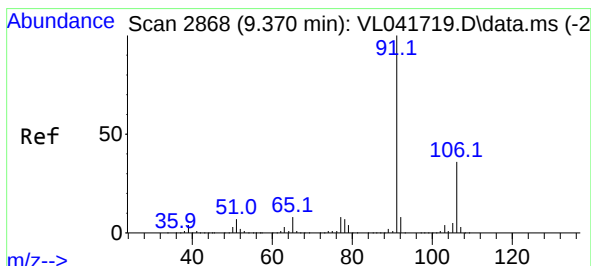
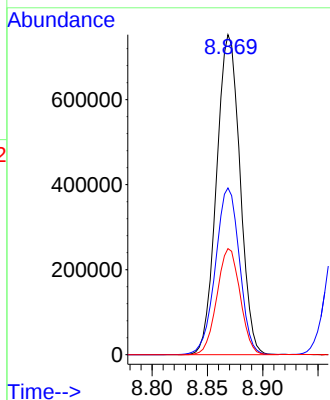
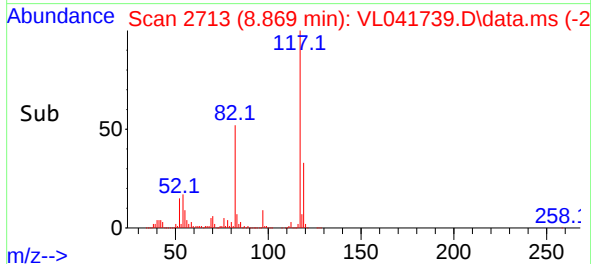
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:117 Resp: 110926
Ion Ratio Lower Upper
117 100
82 53.5 41.3 61.9
119 32.8 25.8 38.8

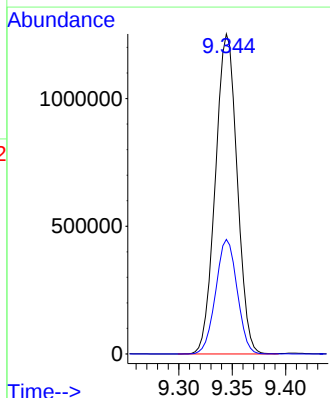
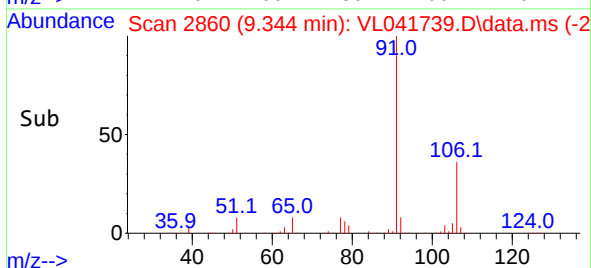
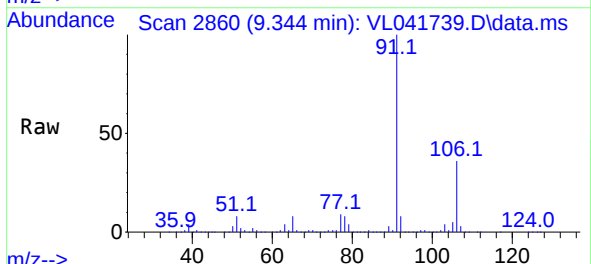
Manual Integrations
APPROVED

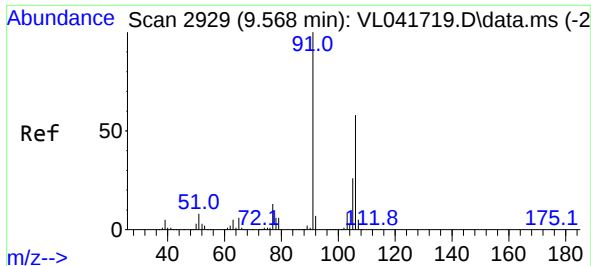
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#58
Ethyl Benzene
Concen: 11.956 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.026 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

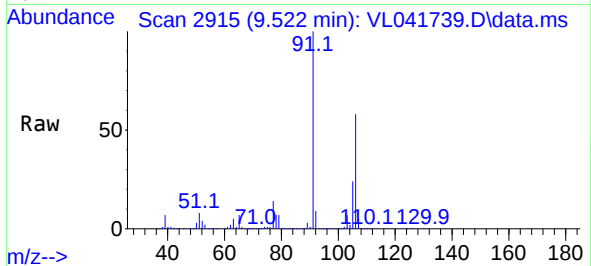
Tgt Ion: 91 Resp: 1774836
Ion Ratio Lower Upper
91 100
106 35.8 28.6 43.0





#59
m/p-Xylene
Concen: 32.380 ppbv
RT: 9.522 min Scan# 2915
Delta R.T. -0.045 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

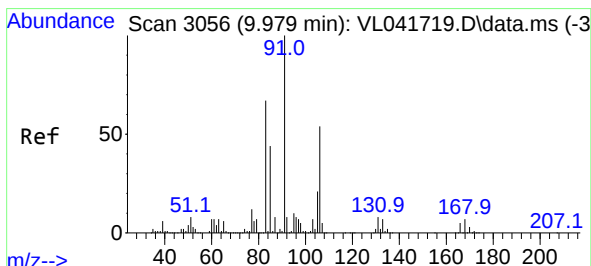
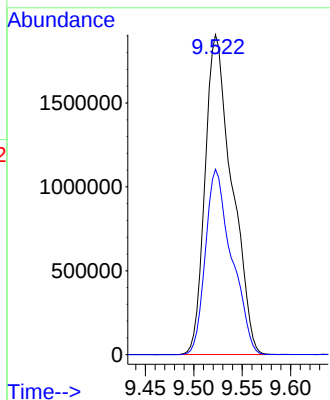
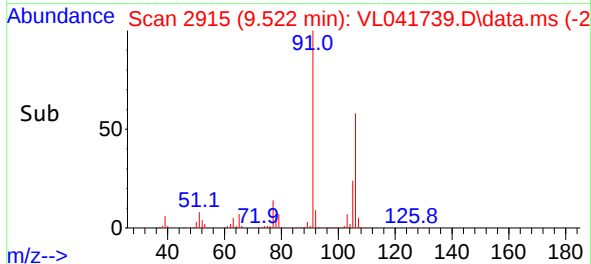
Instrument :
MSVOA_L
ClientSampleId :
IA3



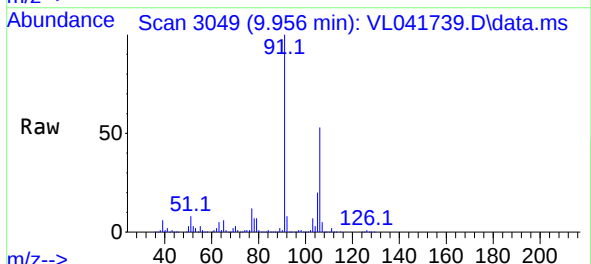
Tgt Ion: 91 Resp: 3682510
Ion Ratio Lower Upper
91 100
106 56.8 45.1 67.7

Manual Integrations
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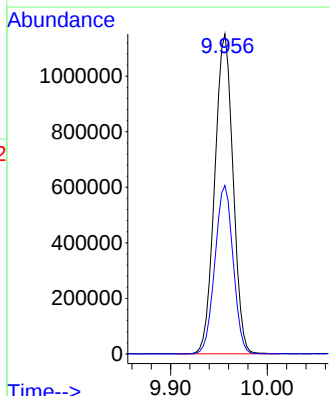
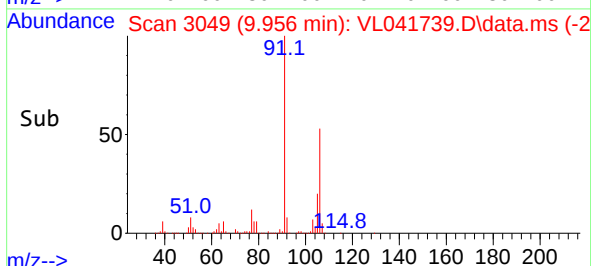
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

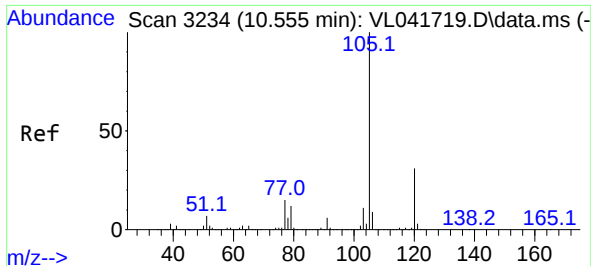


#60
o-Xylene
Concen: 13.389 ppbv
RT: 9.956 min Scan# 3049
Delta R.T. -0.023 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



Tgt Ion: 91 Resp: 1510074
Ion Ratio Lower Upper
91 100
106 52.5 26.8 80.4





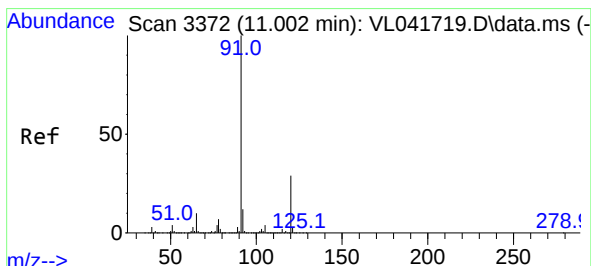
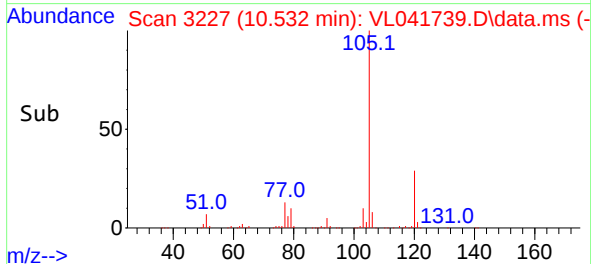
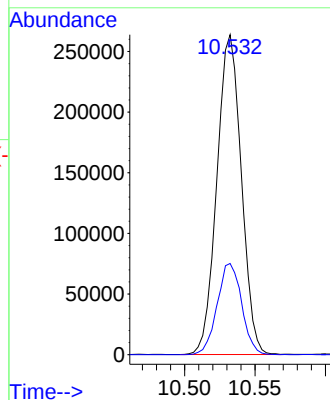
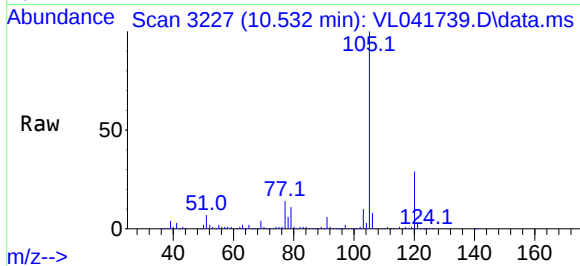
#62
Isopropylbenzene
Concen: 1.713 ppbv
RT: 10.532 min Scan# 31
Delta R.T. -0.023 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion:105 Resp: 31866
Ion Ratio Lower Upper
105 100
120 28.6 24.3 36.5

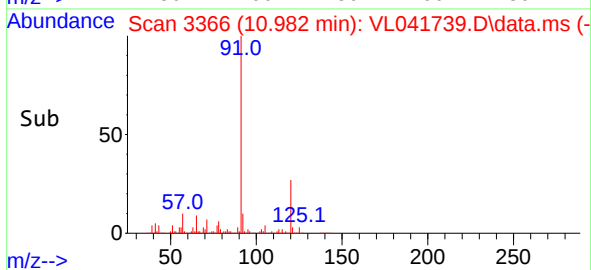
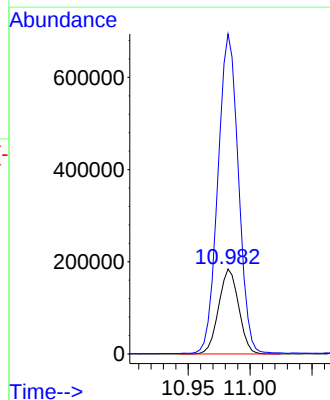
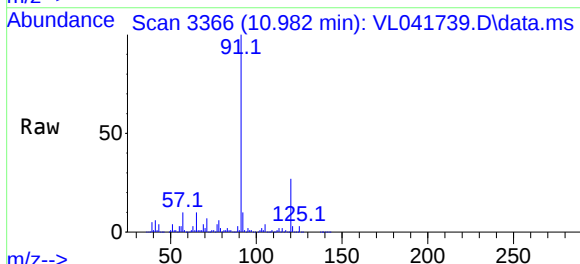
Manual Integrations
APPROVED

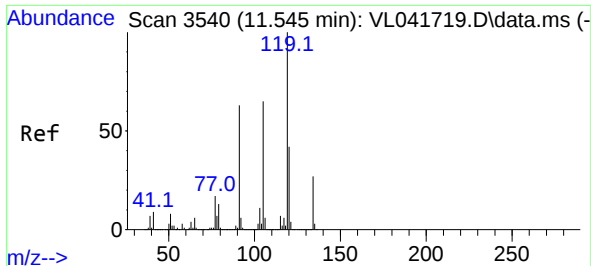
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#64
n-propylbenzene
Concen: 3.786 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.019 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Tgt Ion:120 Resp: 207402
Ion Ratio Lower Upper
120 100
91 386.8 290.8 436.2





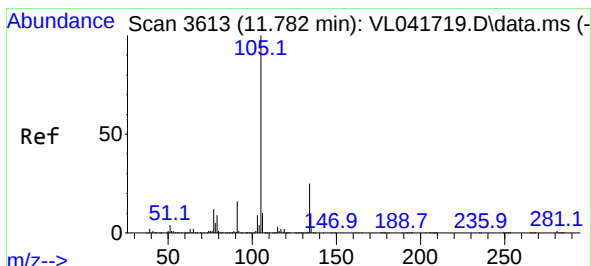
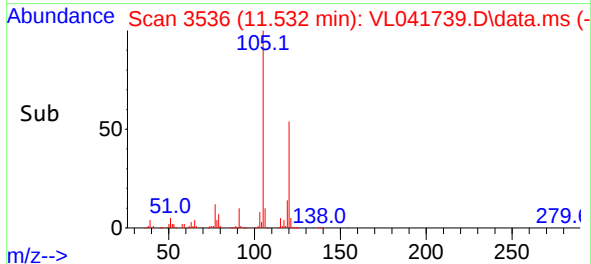
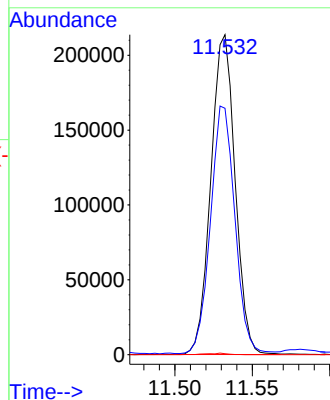
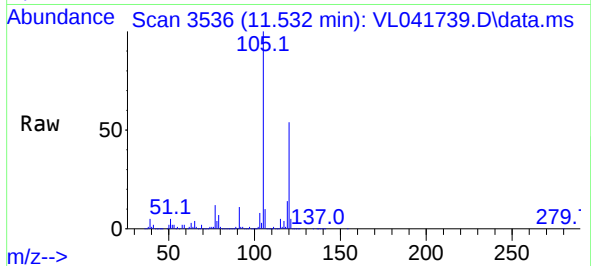
#65
tert-Butylbenzene
Concen: 1.319 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.013 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion:119 Resp: 232560
Ion Ratio Lower Upper
119 100
91 78.3 50.2 75.4
134 0.0 20.4 30.6

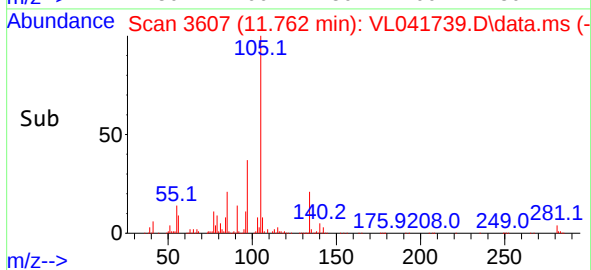
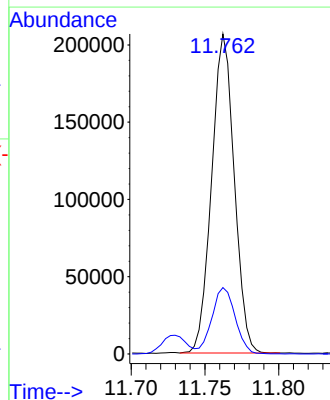
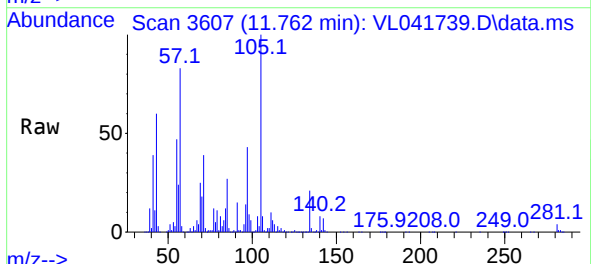
Manual Integrations
APPROVED

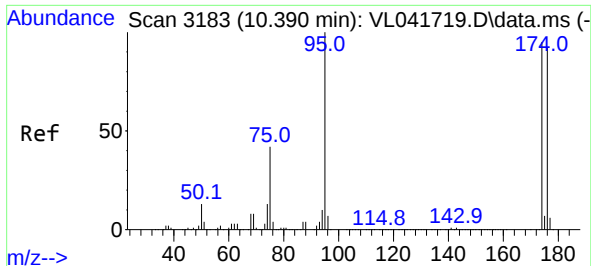
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#67
sec-Butylbenzene
Concen: 0.965 ppbv
RT: 11.762 min Scan# 3607
Delta R.T. -0.019 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

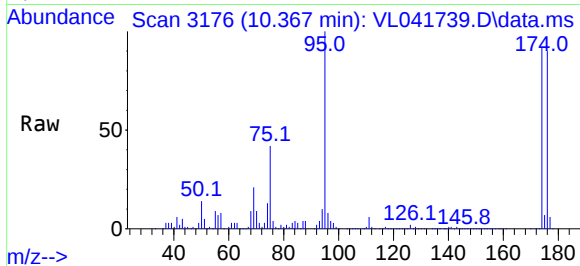
Tgt Ion:105 Resp: 220314
Ion Ratio Lower Upper
105 100
134 27.9 19.3 28.9





#68
1-Bromo-4-Fluorobenzene
Concen: 10.160 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

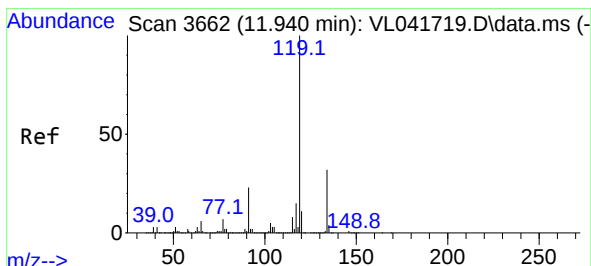
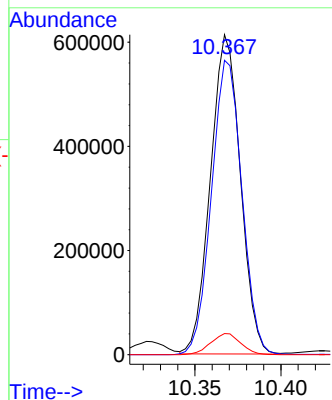
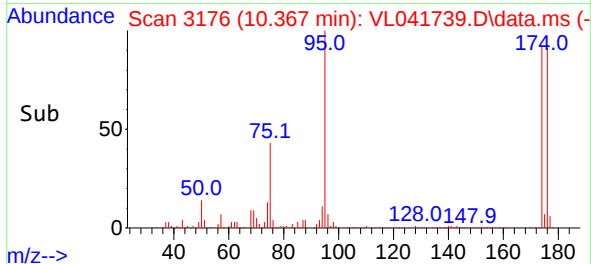
Instrument :
MSVOA_L
ClientSampleId :
IA3



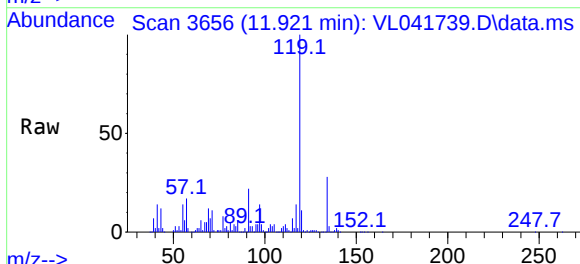
Tgt Ion: 95 Resp: 74090
Ion Ratio Lower Upper
95 100
174 94.1 76.7 115.1
175 6.6 5.4 8.2

Manual Integrations
APPROVED

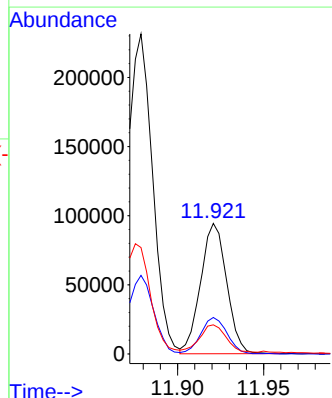
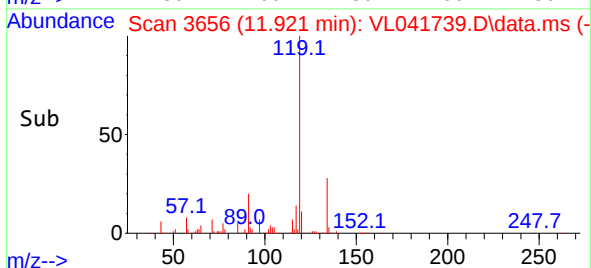
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

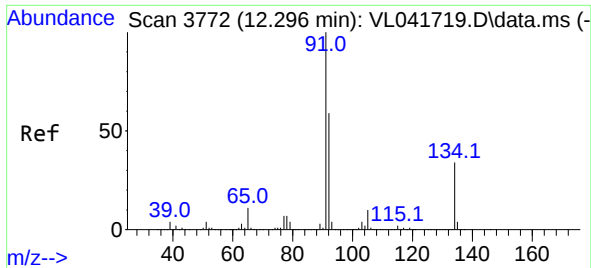


#69
p-Isopropyltoluene
Concen: 0.505 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.020 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



Tgt Ion:119 Resp: 99366
Ion Ratio Lower Upper
119 100
134 28.6 24.6 36.8
91 24.0 17.8 26.8





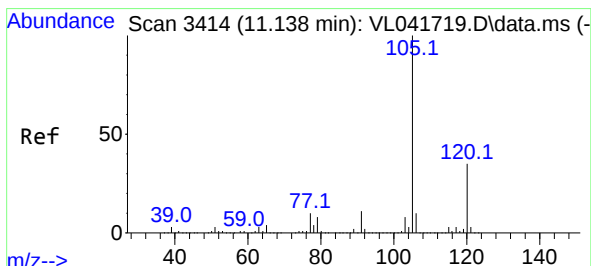
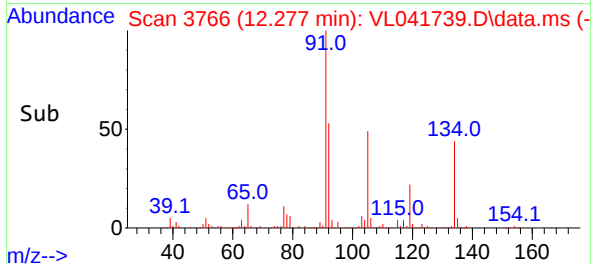
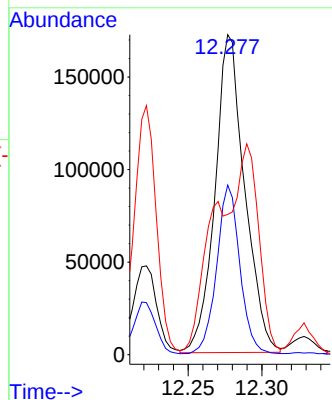
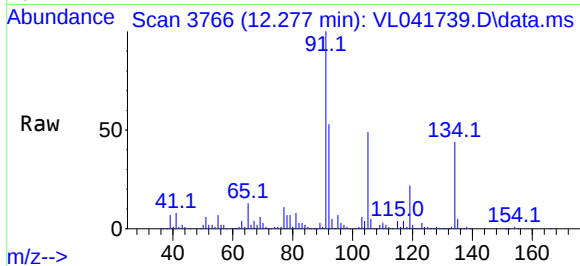
#70
n-Butylbenzene
Concen: 1.472 ppbv
RT: 12.277 min Scan# 31
Delta R.T. -0.020 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

Instrument :
MSVOA_L
ClientSampleId :
IA3

Tgt Ion: 91 Resp: 24047
Ion Ratio Lower Upper
91 100
92 42.3 46.7 70.1#
134 100.6 26.2 39.4#

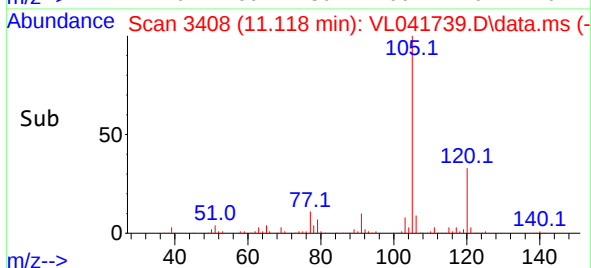
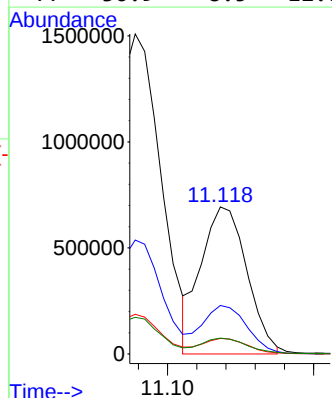
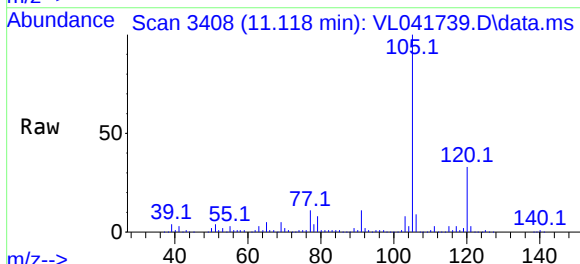
Manual Integrations
APPROVED

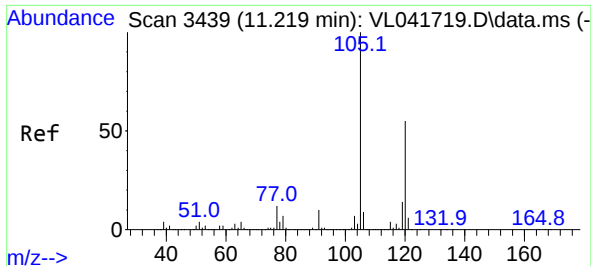
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#72
4-Ethyltoluene
Concen: 5.201 ppbv m
RT: 11.118 min Scan# 3408
Delta R.T. -0.020 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

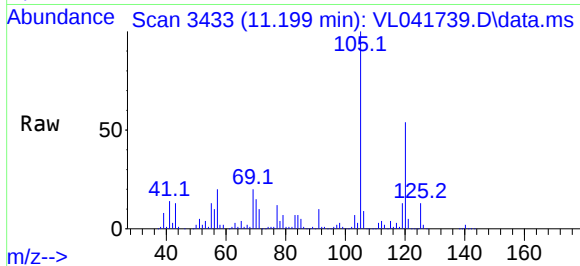
Tgt Ion:105 Resp: 757402
Ion Ratio Lower Upper
105 100
120 113.2 28.0 42.0#
91 38.0 8.8 13.2#
77 36.9 8.5 12.7#





#73
1,3,5-Trimethylbenzene
Concen: 4.848 ppbv
RT: 11.199 min Scan# 3439
Delta R.T. -0.020 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

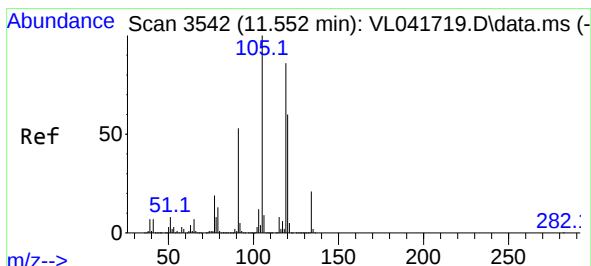
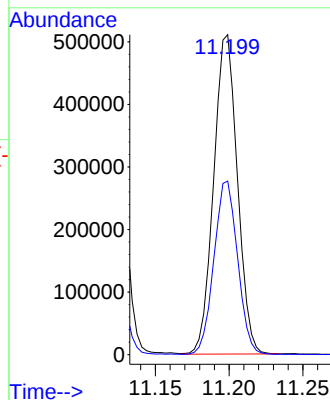
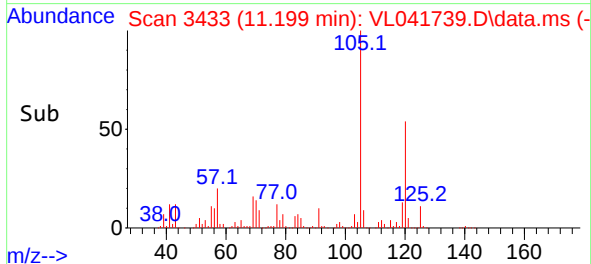
Instrument :
MSVOA_L
ClientSampleId :
IA3



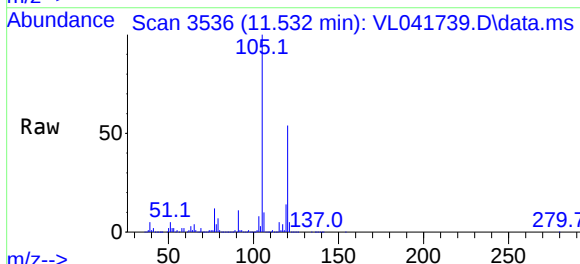
Tgt Ion:105 Resp: 57114
Ion Ratio Lower Upper
105 100
120 54.2 43.6 65.4

Manual Integrations
APPROVED

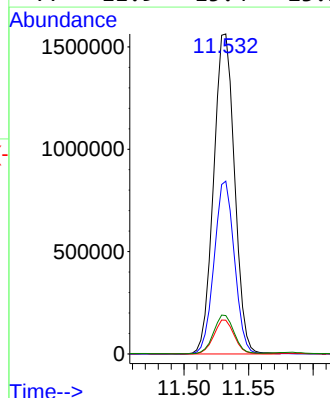
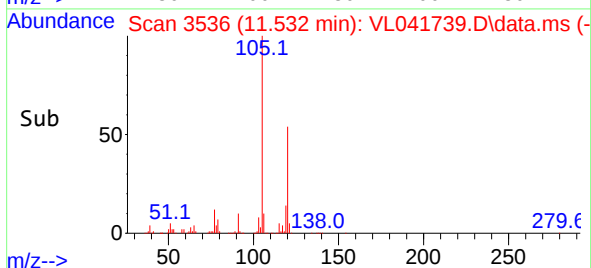
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

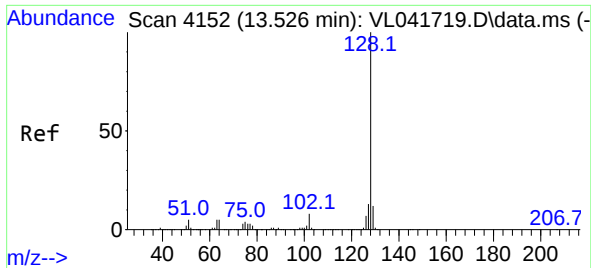


#74
1,2,4-Trimethylbenzene
Concen: 13.750 ppbv
RT: 11.532 min Scan# 3536
Delta R.T. -0.020 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26



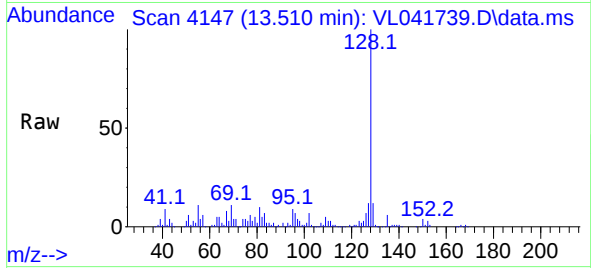
Tgt Ion:105 Resp: 1761093
Ion Ratio Lower Upper
105 100
120 54.0 47.8 71.6
91 10.5 42.5 63.7#
77 11.9 15.4 23.2#





#79
Naphthalene
Concen: 0.615 ppbv
RT: 13.510 min Scan# 41
Delta R.T. -0.016 min
Lab File: VL041739.D
Acq: 12 Dec 2024 08:26

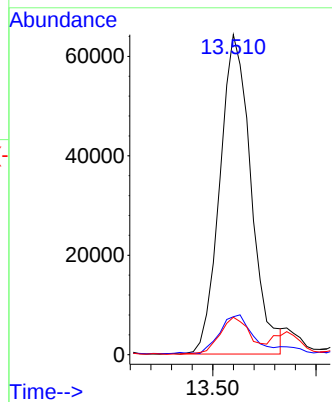
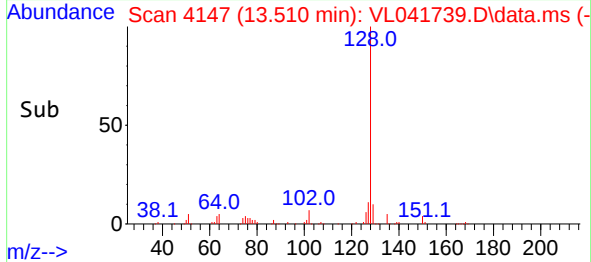
Instrument :
MSVOA_L
ClientSampleId :
IA3



Tgt Ion:128 Resp: 67420
Ion Ratio Lower Upper
128 100
127 11.2 10.2 15.2
129 11.6 9.4 14.0

Manual Integrations
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Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	IA3DL	SDG No.:	P5150
Lab Sample ID:	P5150-04DL	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
VL041745.D	4		12/12/24 11:36	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	UD	0.15	0.31	ug/m3
142-82-5	Heptane	23.3	95.5	D	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	UD	2.22	7.93	ug/m3
110-82-7	Cyclohexane	15.4	53.0	D	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	UD	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	UD	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	UD	1.87	9.34	ug/m3
71-43-2	Benzene	7.00	22.4	D	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	UD	1.46	8.09	ug/m3
79-01-6	Trichloroethene	0.070	0.38	UD	0.38	0.64	ug/m3
108-88-3	Toluene	31.8	120	D	1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	0.12	0.81	D	0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	12.3	53.4	D	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	34.5	150	D	3.65	17.4	ug/m3
95-47-6	o-Xylene	13.9	60.4	D	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	4.80	23.6	D	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	13.9	68.3	D	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	UD	1.57	2.10	ug/m3
110-54-3	Hexane	10.7	37.7	D	1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	238000		2.777			
540-36-3	1,4-Difluorobenzene	1140000		3.942			
3114-55-4	Chlorobenzene-d5	1010000		8.869			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041745.D
 Acq On : 12 Dec 2024 11:36
 Operator : SY/MD
 Sample : P5150-04DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA3DL

Manual Integrations
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Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 11:59:07 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 07:13:56 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.777	49	238287	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.942	114	1137631	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	1005470	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	678331	10.262	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	5366	0.128	ppbv	95
4) Chloromethane	1.528	50	1386	0.125	ppbv	98
9) Propene	1.479	41	5893m	0.426	ppbv	
10) Heptane	4.959	43	223015	5.832	ppbv	100
13) Ethanol	1.716	45	134795	117.815	ppbv	95
15) Acetone	1.829	43	37054	1.347	ppbv	88
19) Isopropyl Alcohol	1.881	45	19042	0.729	ppbv #	33
20) Methylene Chloride	2.052	84	3662	0.220	ppbv	96
26) Hexane	2.816	57	99624	2.686	ppbv #	44
30) Cyclohexane	3.842	84	160531	3.852	ppbv	95
34) 2-Butanone	2.554	43	3928	0.099	ppbv	96
36) Benzene	3.641	78	156608	1.751	ppbv	97
52) Tetrachloroethene	8.218	164	1456m	0.031	ppbv	
53) Toluene	6.914	91	874333	7.954	ppbv	100
58) Ethyl Benzene	9.344	91	414153	3.078	ppbv	96
59) m/p-Xylene	9.519	91	890417	8.637	ppbv	98
60) o-Xylene	9.953	91	356228	3.485	ppbv	97
62) Isopropylbenzene	10.529	105	71686	0.425	ppbv	93
64) n-propylbenzene	10.982	120	46300	0.932	ppbv	84
65) tert-Butylbenzene	11.529	119	49857	0.312	ppbv #	70
67) sec-Butylbenzene	11.759	105	49454	0.239	ppbv	93
69) p-Isopropyltoluene	11.921	119	20055	0.112	ppbv #	93
70) n-Butylbenzene	12.277	91	51174	0.345	ppbv #	45
73) 1,3,5-Trimethylbenzene	11.196	105	127911	1.198	ppbv	97
74) 1,2,4-Trimethylbenzene	11.529	105	404601	3.485	ppbv #	67

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

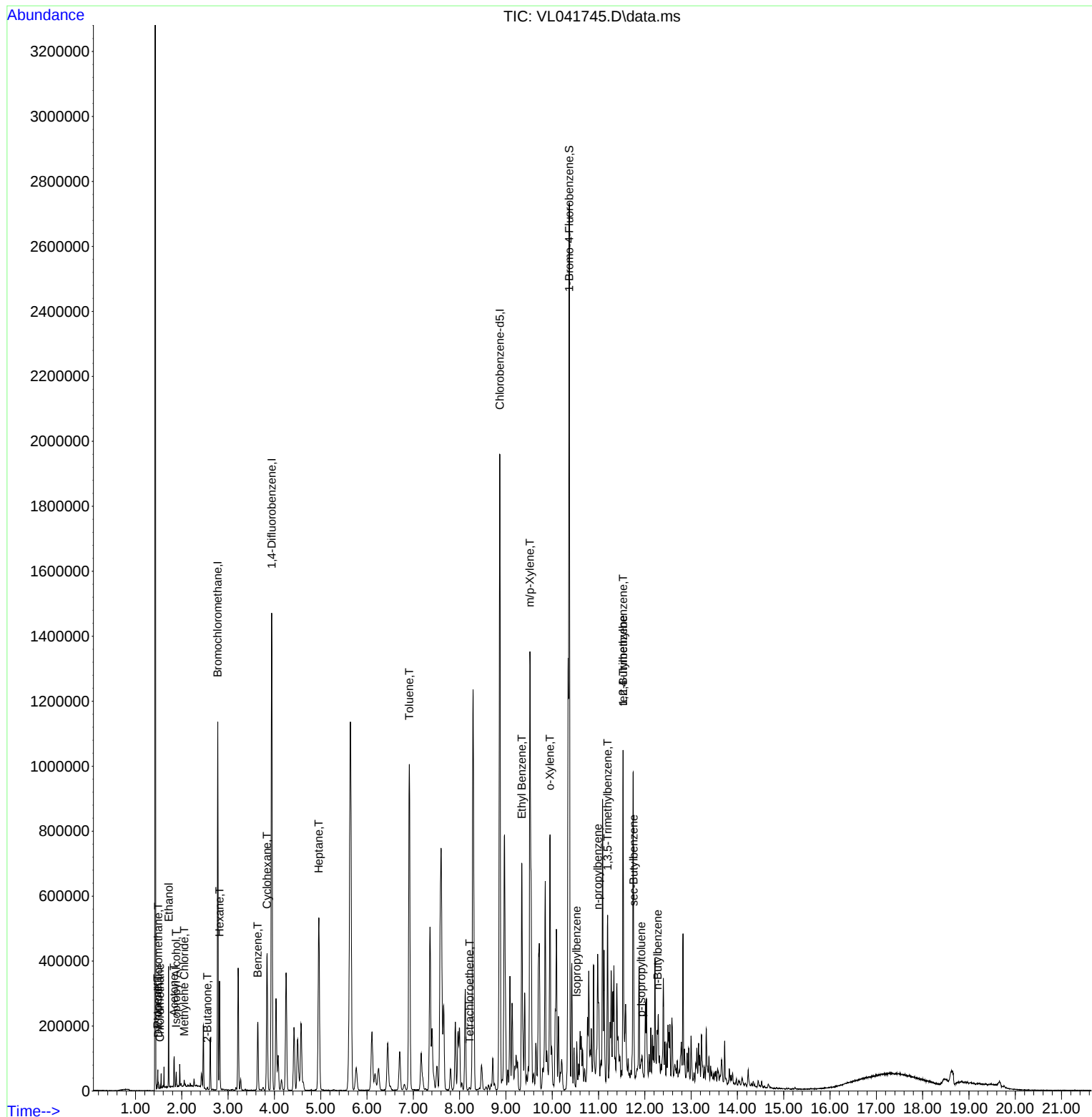
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Data File : VL041745.D
Acq On : 12 Dec 2024 11:36
Operator : SY/MD
Sample : P5150-04DL 4X
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

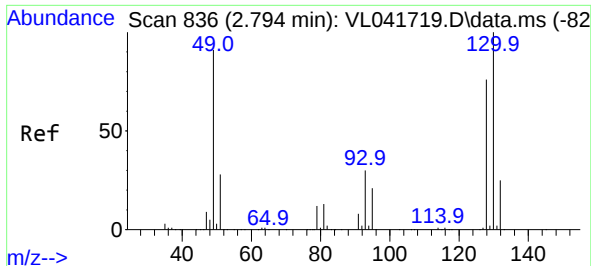
Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Manual Integrations
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Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

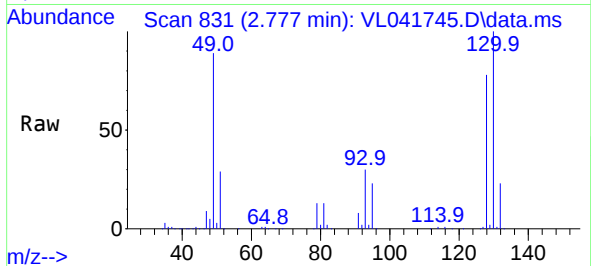
Quant Time: Dec 12 11:59:07 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 12 07:13:56 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.017 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

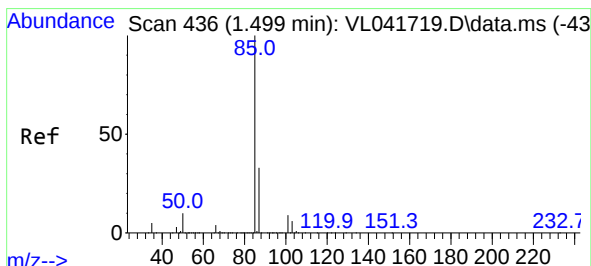
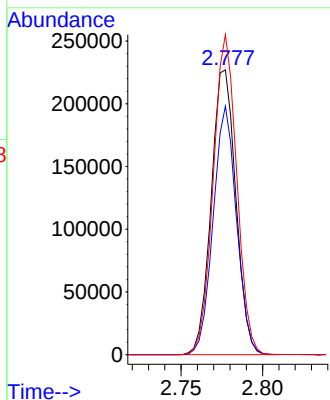
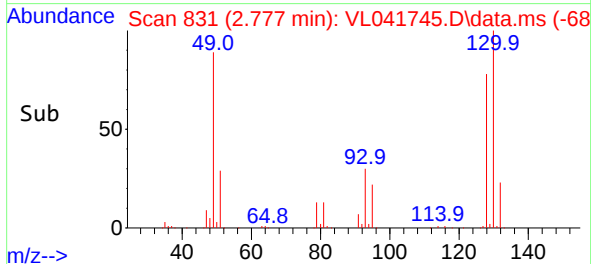
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion: 49 Resp: 23828
Ion Ratio Lower Upper
49 100
128 82.6 42.8 128.3
130 107.4 55.8 167.4

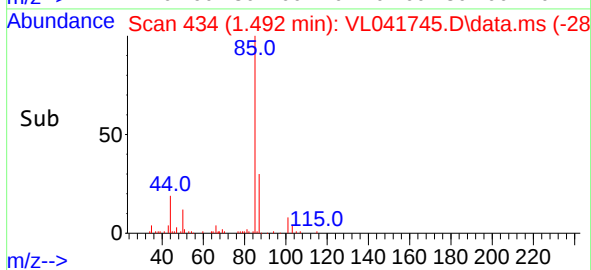
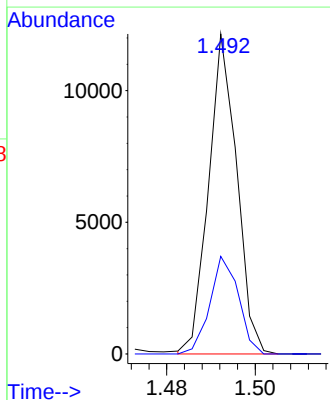
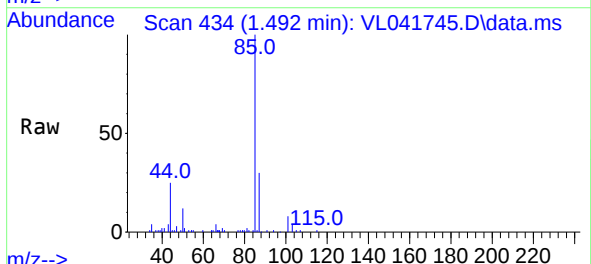
Manual Integrations
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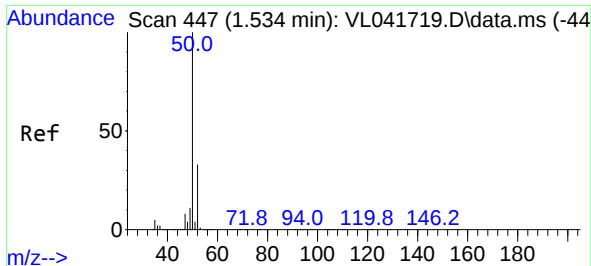
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#2
Dichlorodifluoromethane
Concen: 0.128 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Tgt Ion: 85 Resp: 5366
Ion Ratio Lower Upper
85 100
87 30.5 26.6 39.8





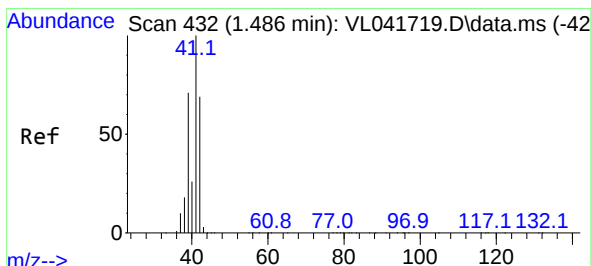
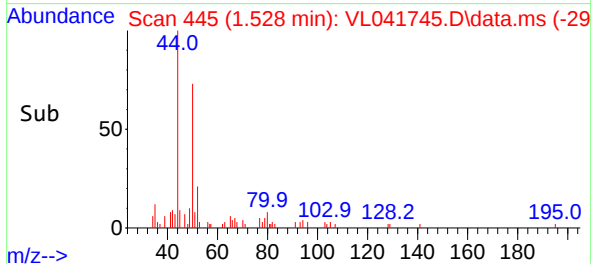
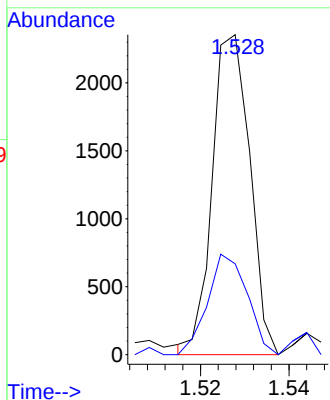
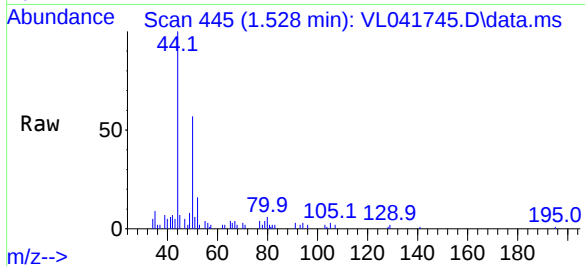
#4
Chloromethane
Concen: 0.125 ppbv
RT: 1.528 min Scan# 441
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 50 Resp: 1380
Ion Ratio Lower Upper
50 100
52 31.9 26.6 40.0

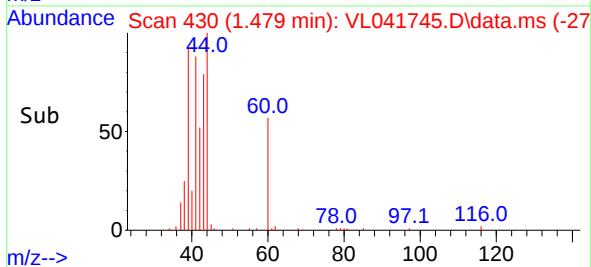
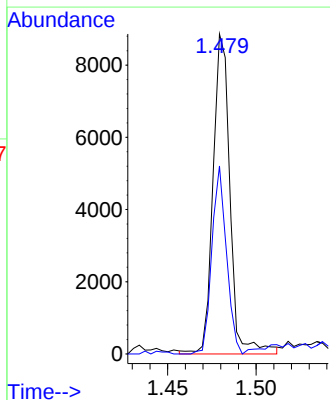
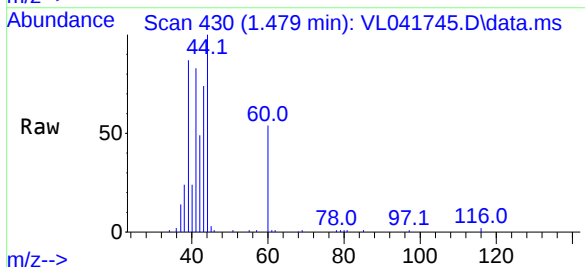
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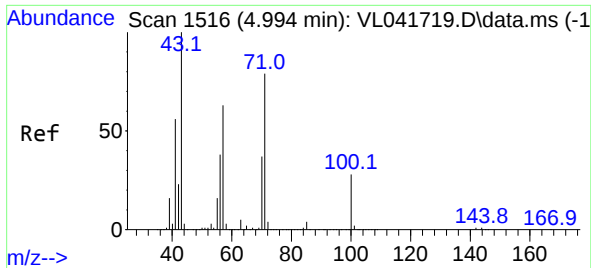
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#9
Propene
Concen: 0.426 ppbv m
RT: 1.479 min Scan# 430
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Tgt Ion: 41 Resp: 5893
Ion Ratio Lower Upper
41 100
42 23.1 56.2 84.4#





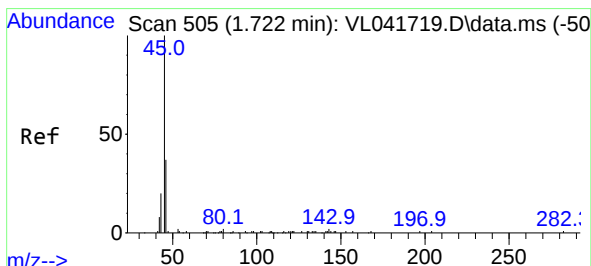
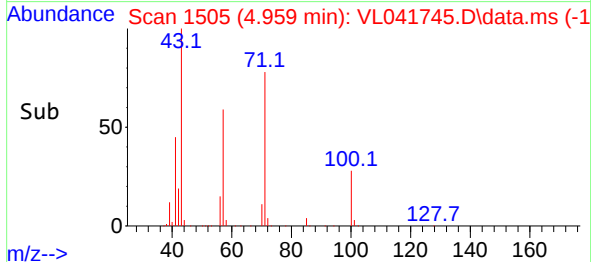
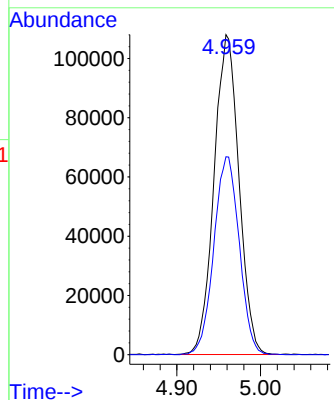
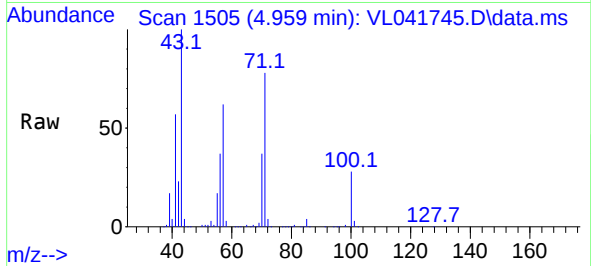
#10
Heptane
Concen: 5.832 ppbv
RT: 4.959 min Scan# 11
Delta R.T. -0.036 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 43 Resp: 223015
Ion Ratio Lower Upper
43 100
57 63.1 50.5 75.7

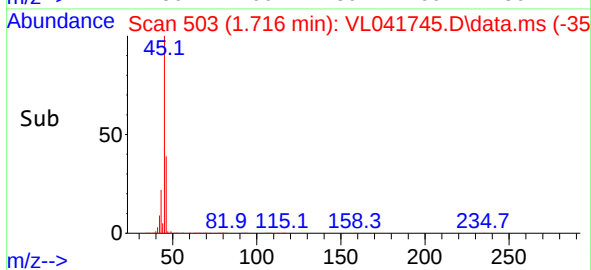
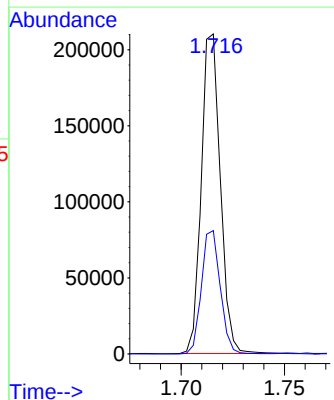
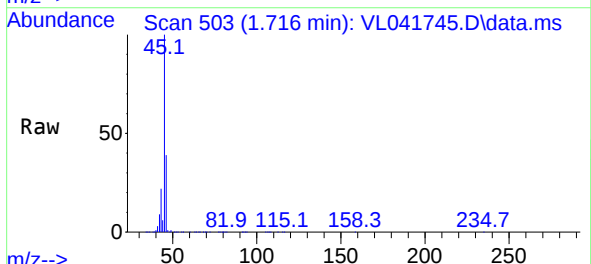
Manual Integrations
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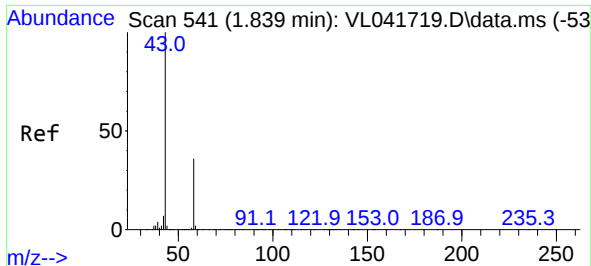
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#13
Ethanol
Concen: 117.815 ppbv
RT: 1.716 min Scan# 503
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

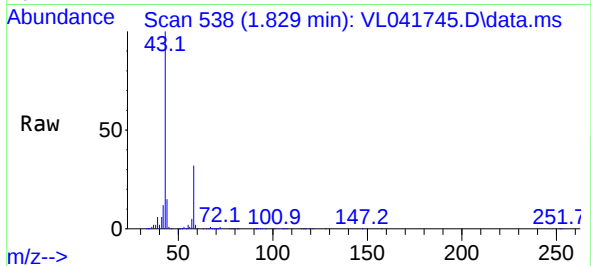
Tgt Ion: 45 Resp: 134795
Ion Ratio Lower Upper
45 100
46 38.6 16.6 66.6





#15
Acetone
Concen: 1.347 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

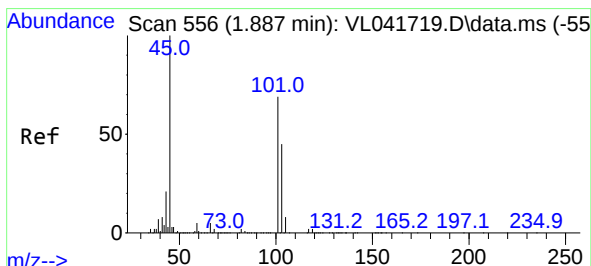
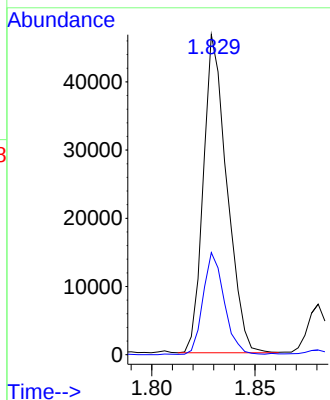
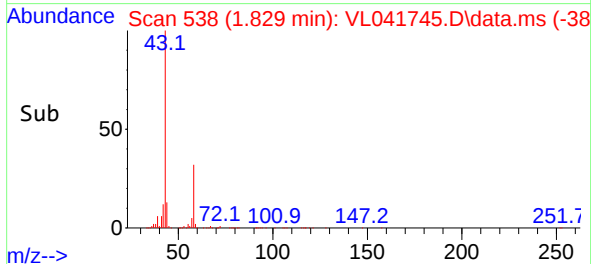
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



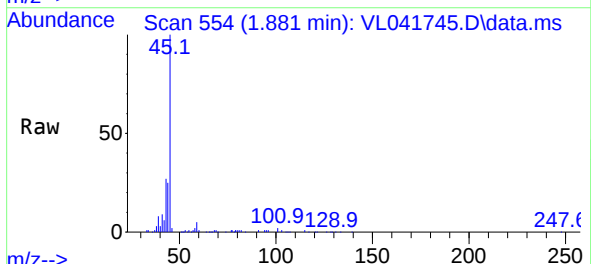
Tgt Ion: 43 Resp: 37054
Ion Ratio Lower Upper
43 100
58 29.1 28.9 43.3

Manual Integrations
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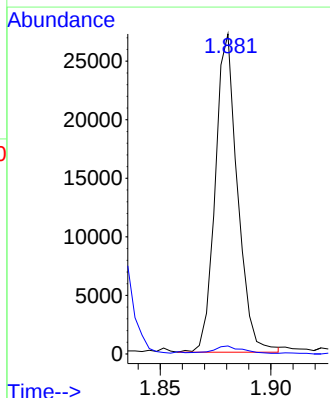
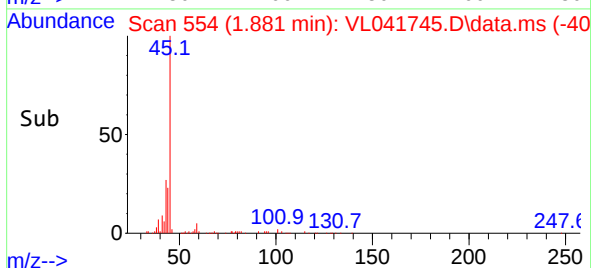
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

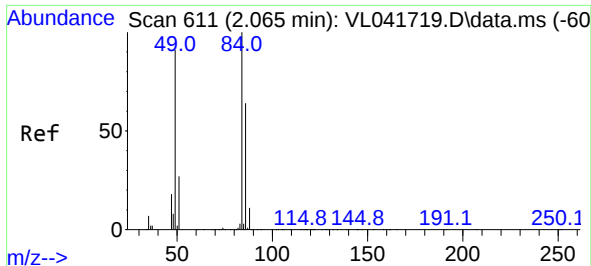


#19
Isopropyl Alcohol
Concen: 0.729 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



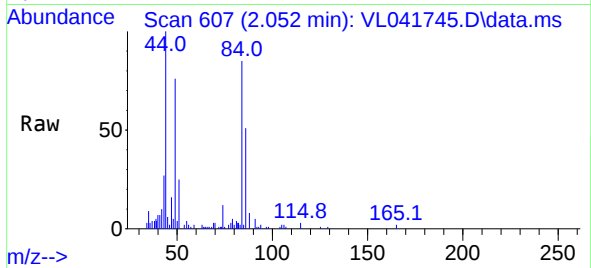
Tgt Ion: 45 Resp: 19042
Ion Ratio Lower Upper
45 100
58 4.2 40.6 61.0#





#20
Methylene Chloride
Concen: 0.220 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

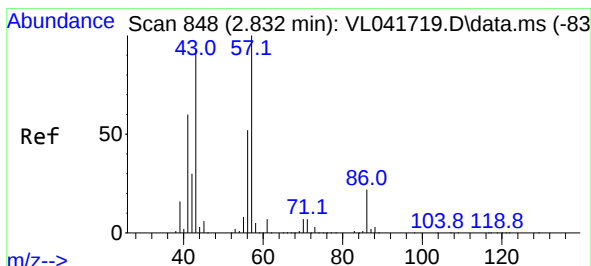
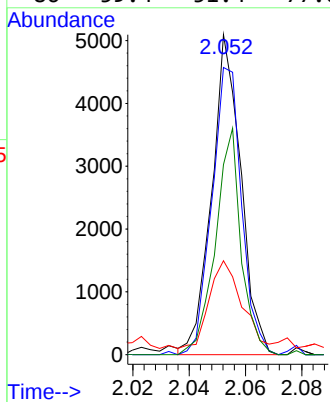
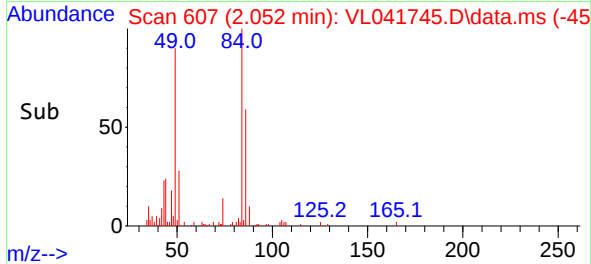
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:	84	Resp:	3662
Ion	Ratio	Lower	Upper
84	100		
49	89.7	73.6	110.4
51	27.4	22.7	34.1
86	59.4	51.4	77.0

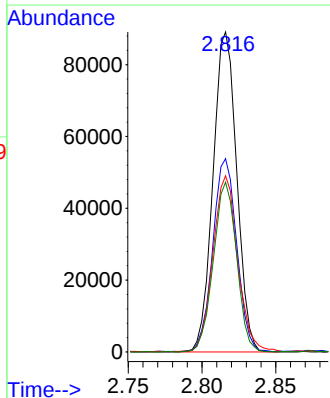
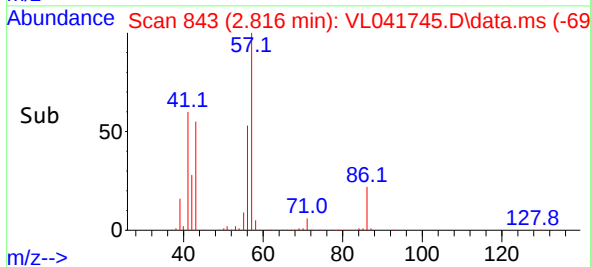
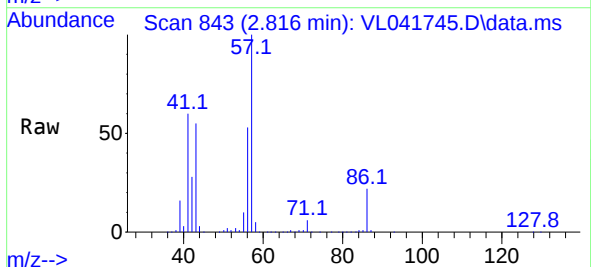
Manual Integrations
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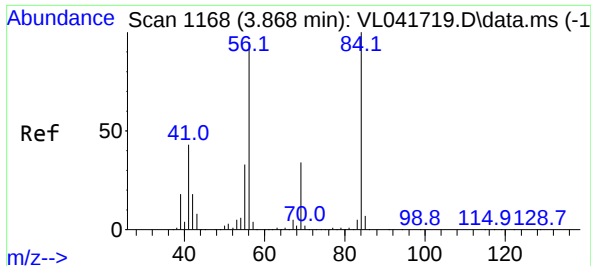
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#26
Hexane
Concen: 2.686 ppbv
RT: 2.816 min Scan# 843
Delta R.T. -0.016 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

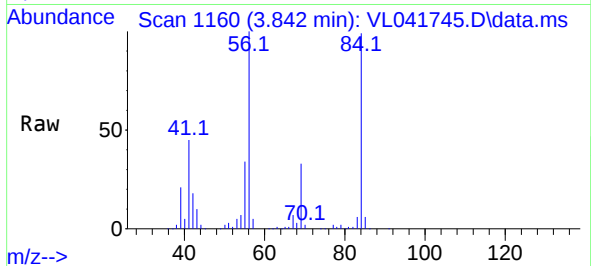
Tgt Ion:	57	Resp:	99624
Ion	Ratio	Lower	Upper
57	100		
41	61.2	49.5	74.3
43	57.6	150.6	225.8#
56	52.0	41.6	62.4





#30
Cyclohexane
Concen: 3.852 ppbv
RT: 3.842 min Scan# 1160
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

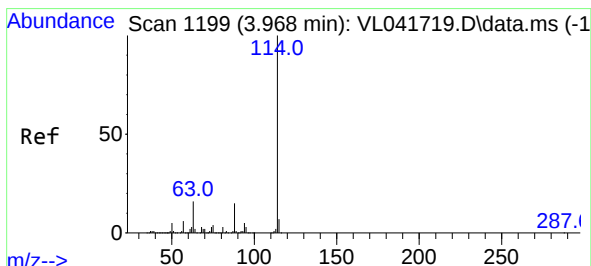
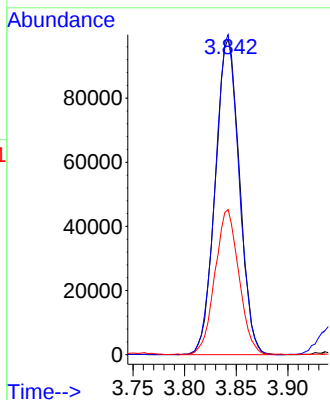
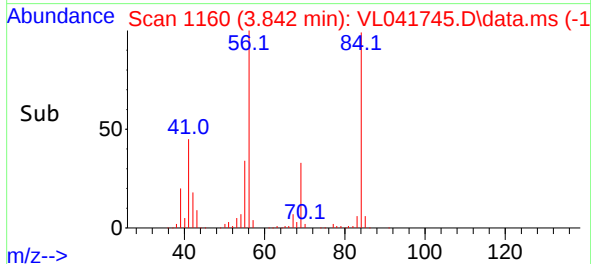
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



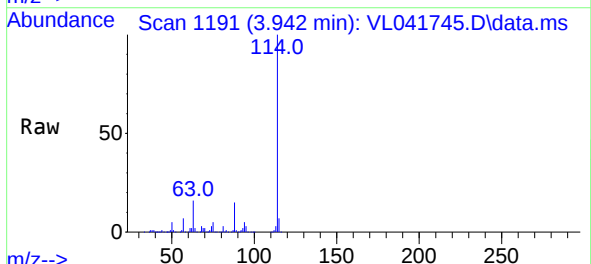
Tgt Ion: 84 Resp: 16053
Ion Ratio Lower Upper
84 100
56 99.5 76.0 114.0
41 45.5 34.2 51.4

Manual Integrations
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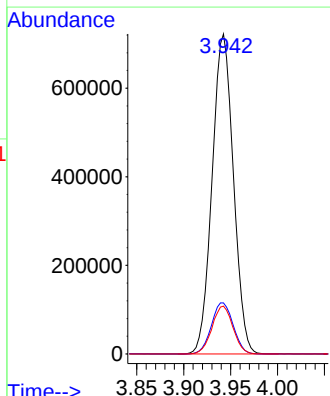
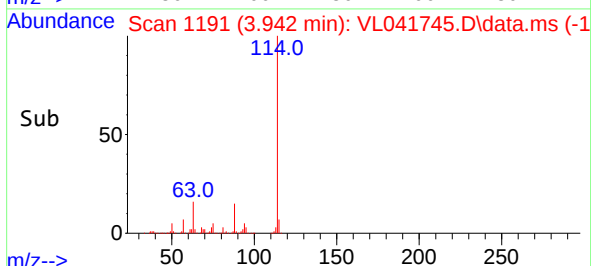
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

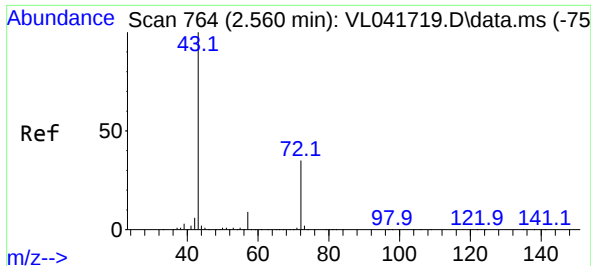


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.942 min Scan# 1191
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



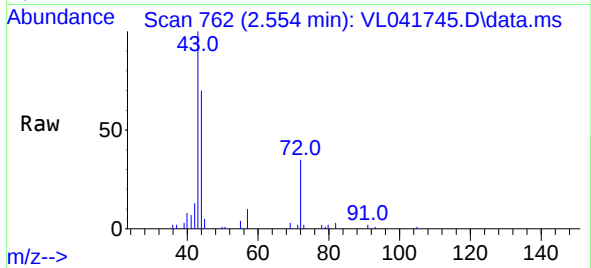
Tgt Ion:114 Resp: 1137631
Ion Ratio Lower Upper
114 100
63 16.4 12.9 19.3
88 14.8 11.8 17.6





#34
2-Butanone
Concen: 0.099 ppbv
RT: 2.554 min Scan# 70
Delta R.T. -0.007 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

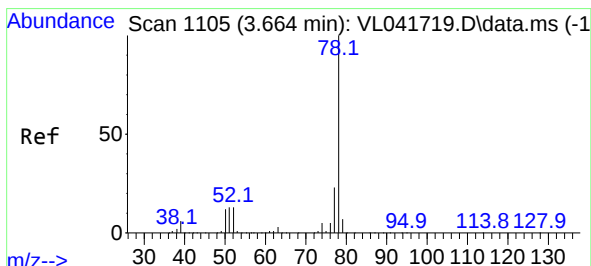
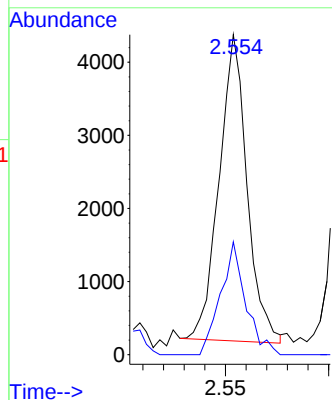
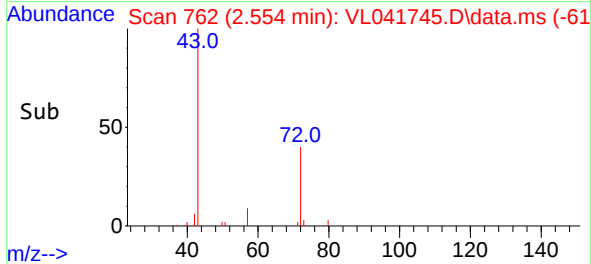
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion: 43 Resp: 3928
Ion Ratio Lower Upper
43 100
72 33.2 28.3 42.5

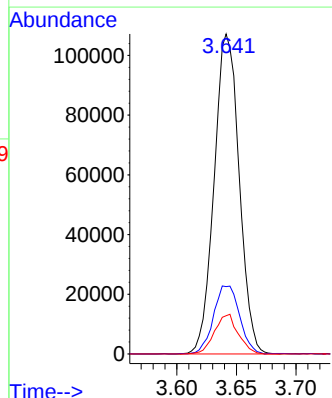
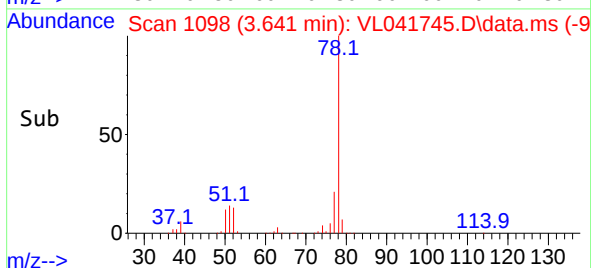
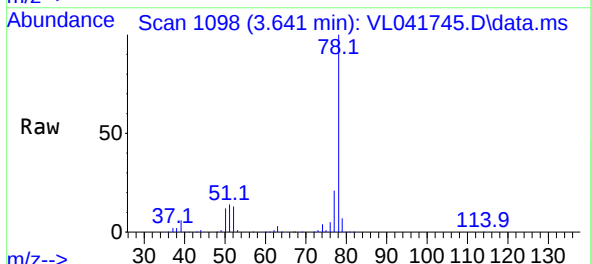
Manual Integrations
APPROVED

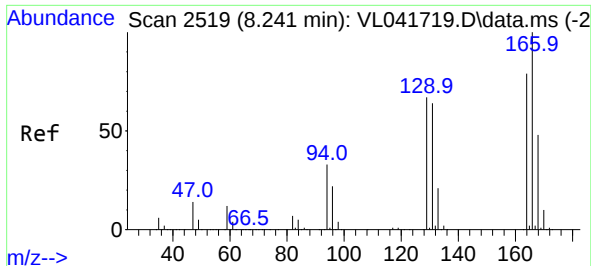
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#36
Benzene
Concen: 1.751 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

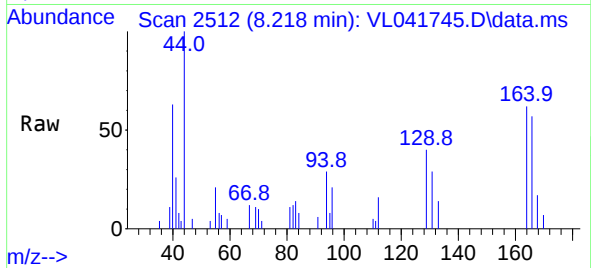
Tgt Ion: 78 Resp: 156608
Ion Ratio Lower Upper
78 100
77 20.9 18.6 27.8
50 11.9 9.5 14.3





#52
Tetrachloroethene
Concen: 0.031 ppbv m
RT: 8.218 min Scan# 2109
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

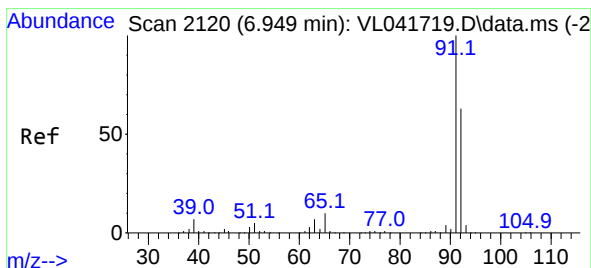
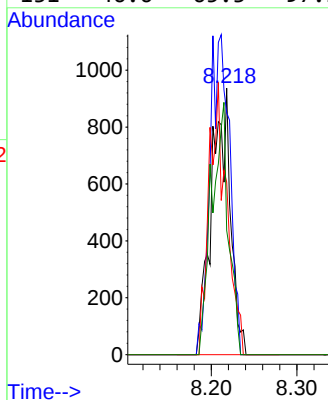
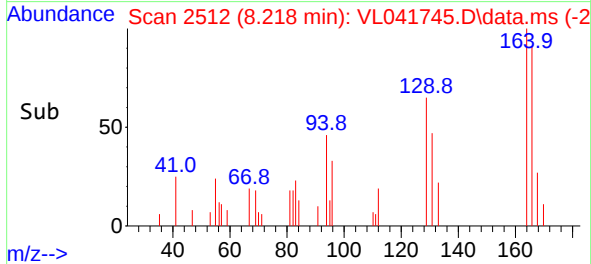
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:164 Resp: 1450
Ion Ratio Lower Upper
164 100
166 90.8 101.4 152.0
129 64.8 67.6 101.4
131 46.6 65.3 97.9

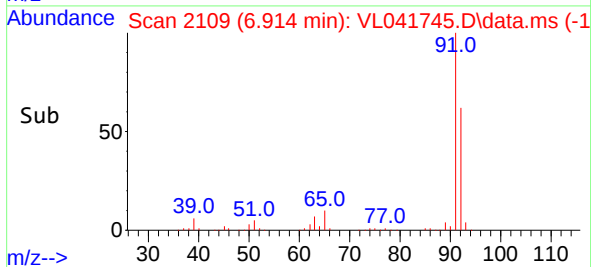
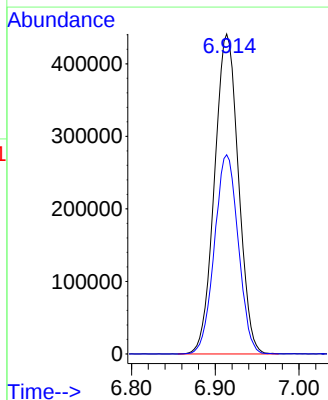
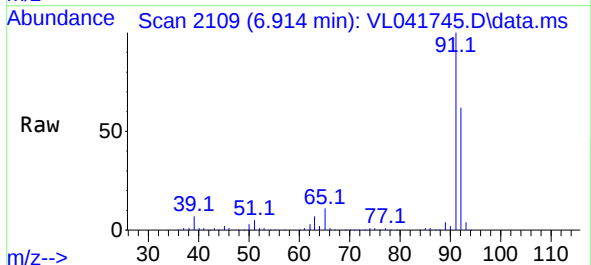
Manual Integrations
APPROVED

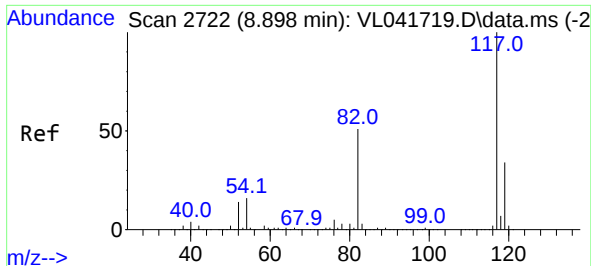
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#53
Toluene
Concen: 7.954 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. -0.036 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

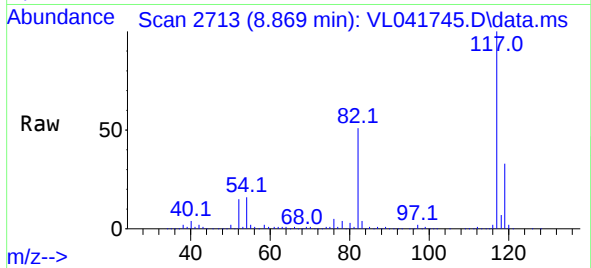
Tgt Ion: 91 Resp: 874333
Ion Ratio Lower Upper
91 100
92 62.1 49.7 74.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

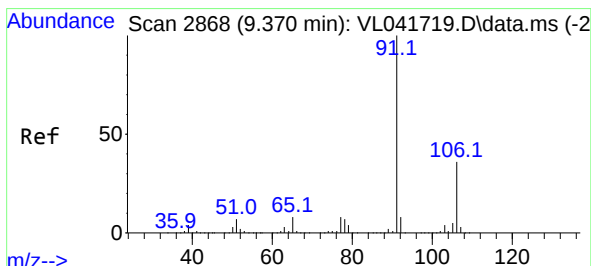
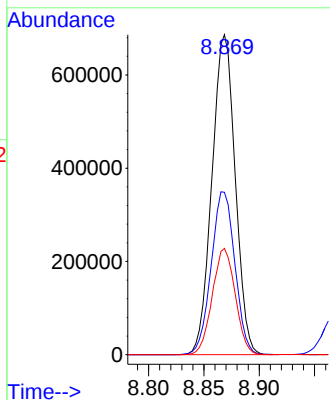
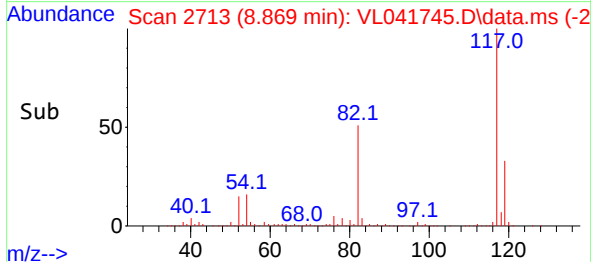
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:117 Resp: 1005470
Ion Ratio Lower Upper
117 100
82 51.8 41.3 61.9
119 32.8 25.8 38.8

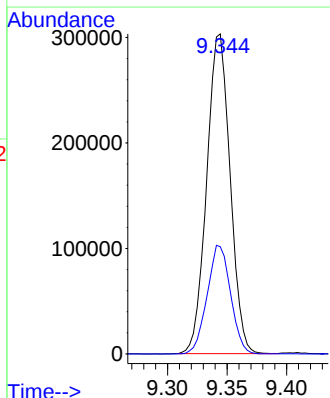
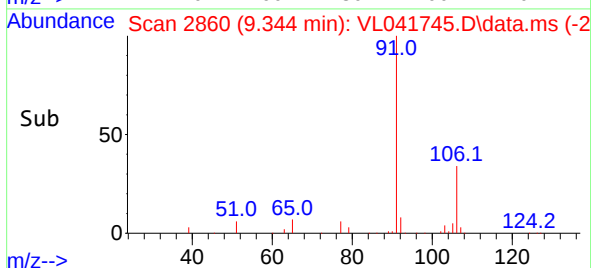
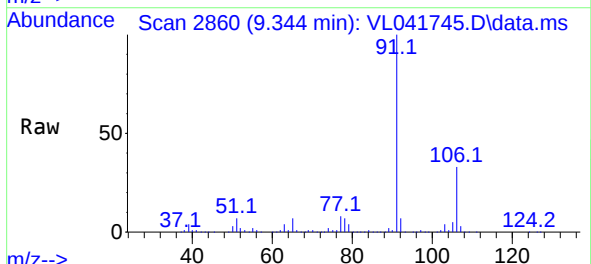
Manual Integrations
APPROVED

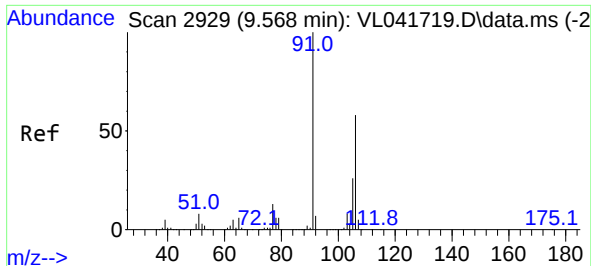
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#58
Ethyl Benzene
Concen: 3.078 ppbv
RT: 9.344 min Scan# 2860
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Tgt Ion: 91 Resp: 414153
Ion Ratio Lower Upper
91 100
106 33.5 28.6 43.0





#59

m/p-Xylene

Concen: 8.637 ppbv

RT: 9.519 min Scan# 29

Delta R.T. -0.049 min

Lab File: VL041745.D

Acq: 12 Dec 2024 11:36

Instrument :

MSVOA_L

ClientSampleId :

IA3DL

Tgt Ion: 91 Resp: 89041

Ion Ratio Lower Upper

91 100

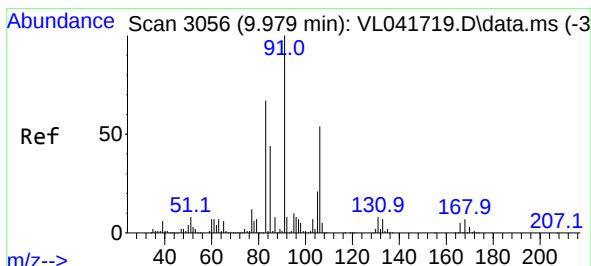
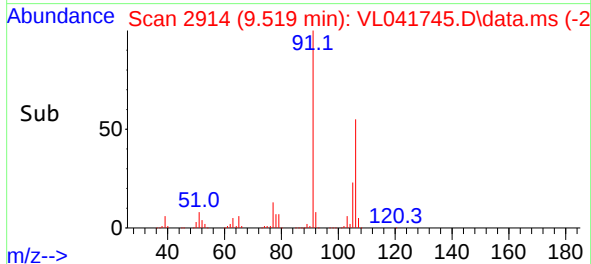
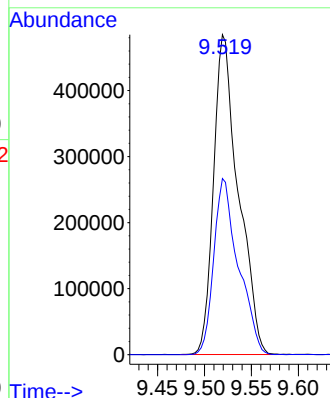
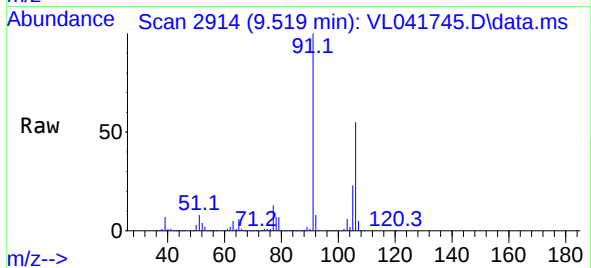
106 54.6 45.1 67.7

Manual Integrations

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Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#60

o-Xylene

Concen: 3.485 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. -0.026 min

Lab File: VL041745.D

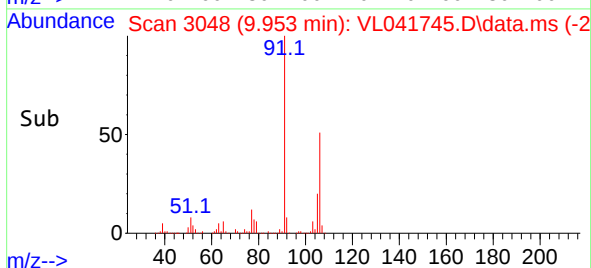
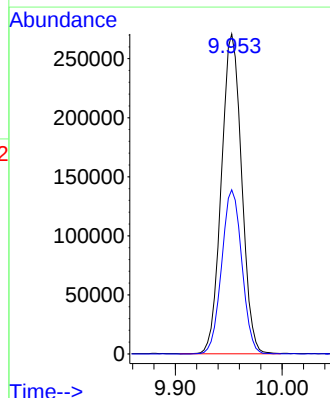
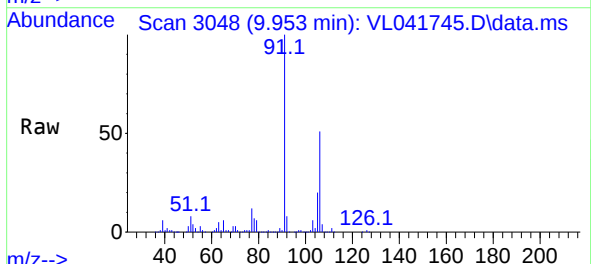
Acq: 12 Dec 2024 11:36

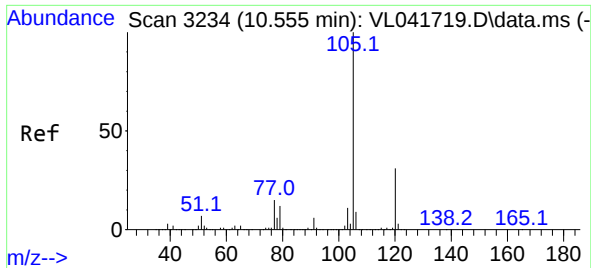
Tgt Ion: 91 Resp: 356228

Ion Ratio Lower Upper

91 100

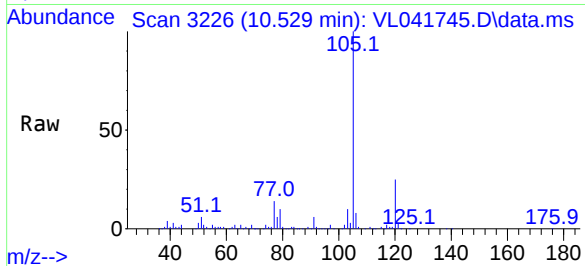
106 51.2 26.8 80.4





#62
Isopropylbenzene
Concen: 0.425 ppbv
RT: 10.529 min Scan# 31
Delta R.T. -0.026 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

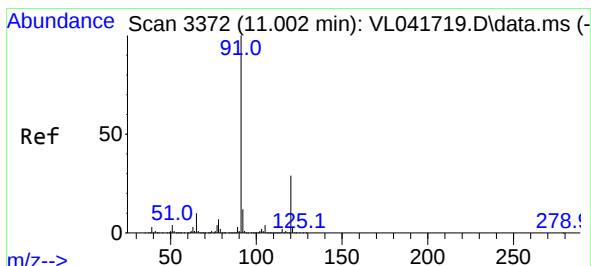
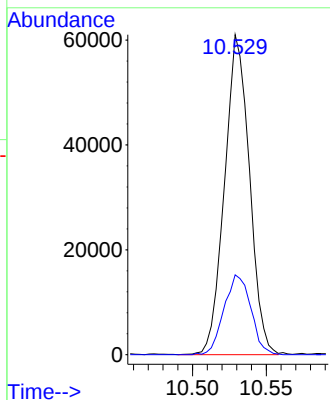
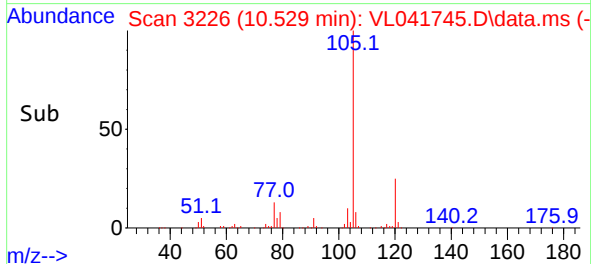
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



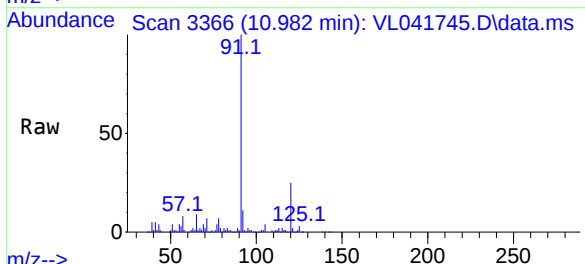
Tgt Ion:105 Resp: 71680
Ion Ratio Lower Upper
105 100
120 26.8 24.3 36.5

Manual Integrations
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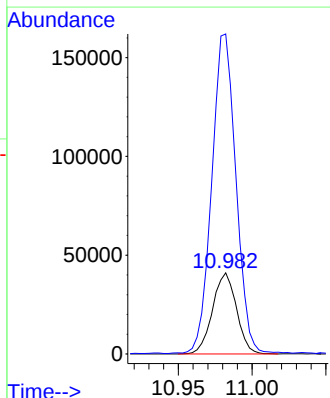
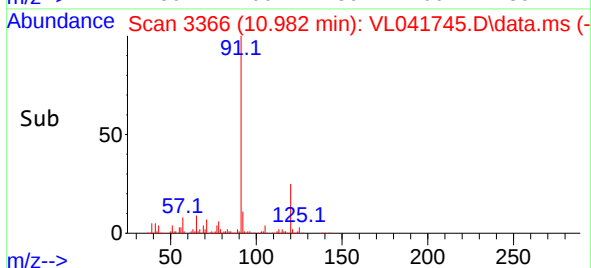
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

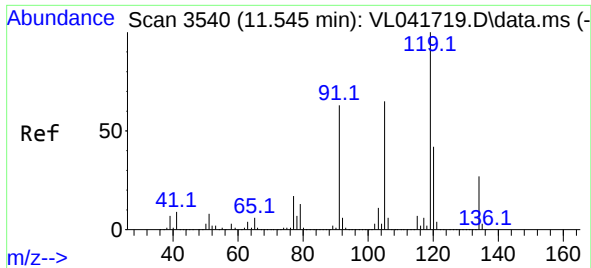


#64
n-propylbenzene
Concen: 0.932 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.020 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



Tgt Ion:120 Resp: 46300
Ion Ratio Lower Upper
120 100
91 399.9 290.8 436.2





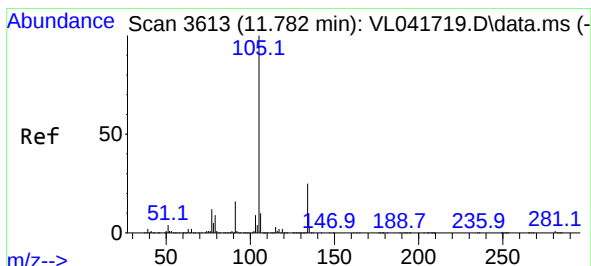
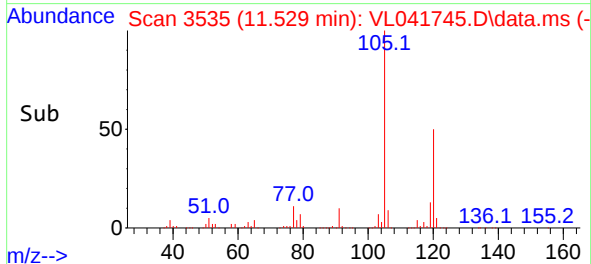
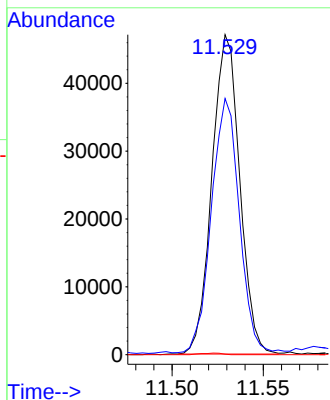
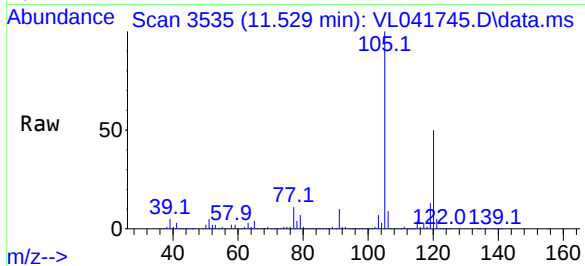
#65
tert-Butylbenzene
Concen: 0.312 ppbv
RT: 11.529 min Scan# 3065
Delta R.T. -0.016 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion:119 Resp: 4985
Ion Ratio Lower Upper
119 100
91 80.1 50.2 75.4
134 0.0 20.4 30.6

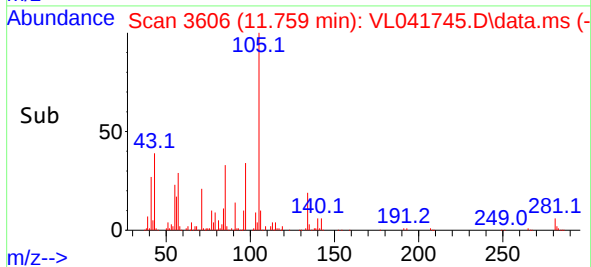
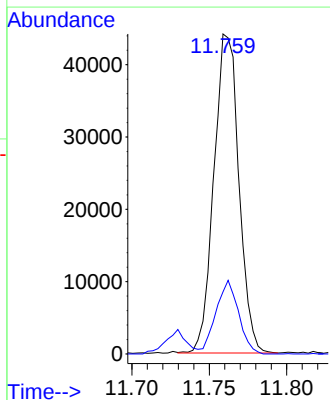
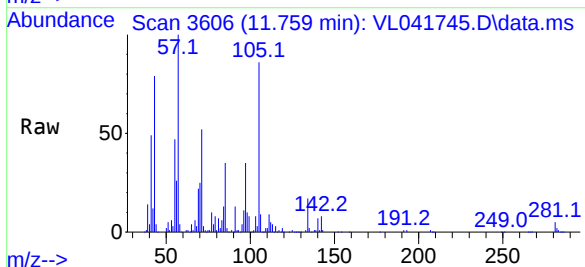
Manual Integrations
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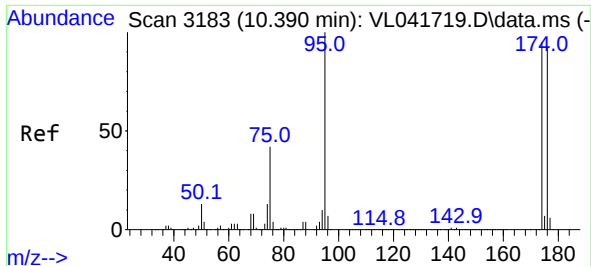
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#67
sec-Butylbenzene
Concen: 0.239 ppbv
RT: 11.759 min Scan# 3606
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

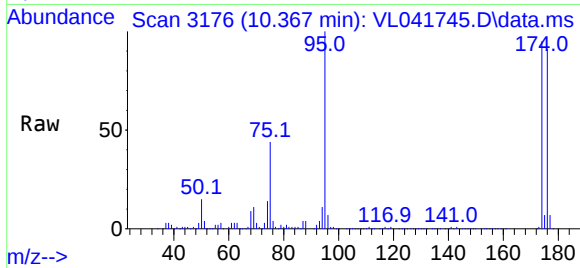
Tgt Ion:105 Resp: 49454
Ion Ratio Lower Upper
105 100
134 27.3 19.3 28.9





#68
1-Bromo-4-Fluorobenzene
Concen: 10.262 ppbv
RT: 10.367 min Scan# 3183
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

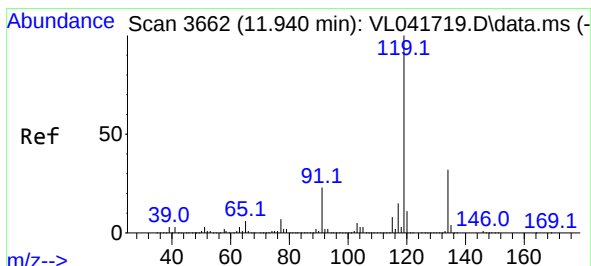
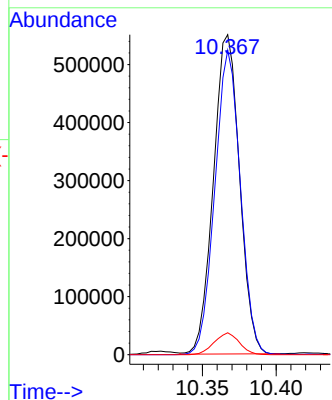
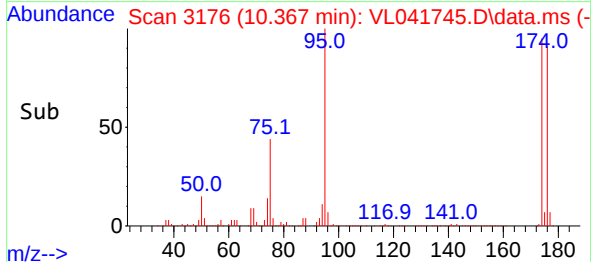
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



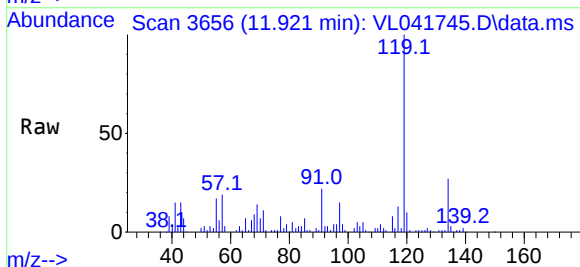
Tgt Ion: 95 Resp: 67833
Ion Ratio Lower Upper
95 100
174 93.3 76.7 115.1
175 6.6 5.4 8.2

Manual Integrations
APPROVED

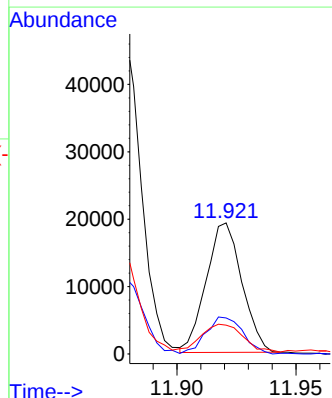
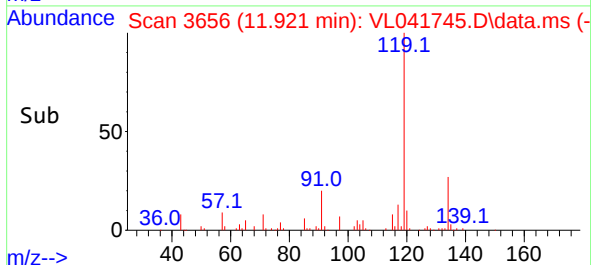
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

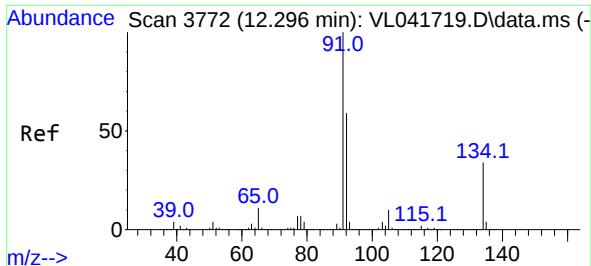


#69
p-Isopropyltoluene
Concen: 0.112 ppbv
RT: 11.921 min Scan# 3656
Delta R.T. -0.020 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36



Tgt Ion:119 Resp: 20055
Ion Ratio Lower Upper
119 100
134 29.9 24.6 36.8
91 29.5 17.8 26.8#





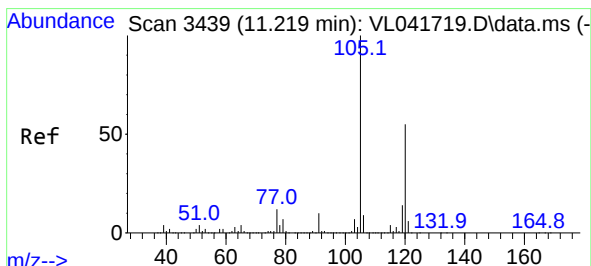
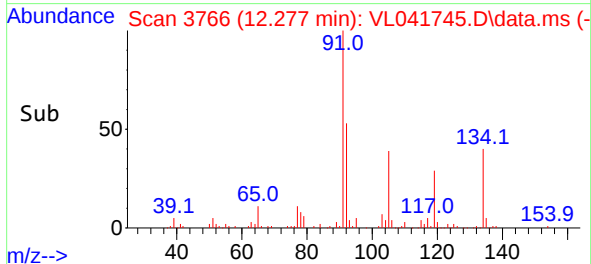
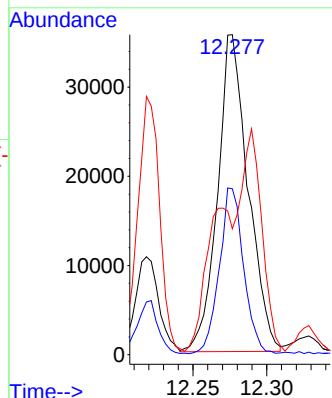
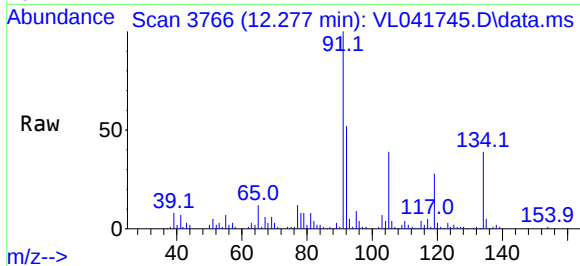
#70
n-Butylbenzene
Concen: 0.345 ppbv
RT: 12.277 min Scan# 31174
Delta R.T. -0.020 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

Instrument :
MSVOA_L
ClientSampleId :
IA3DL

Tgt Ion: 91 Resp: 51174
Ion Ratio Lower Upper
91 100
92 43.5 46.7 70.1
134 99.4 26.2 39.4

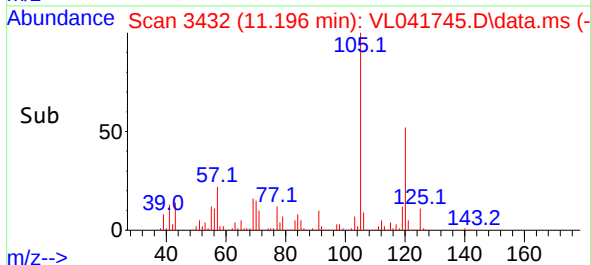
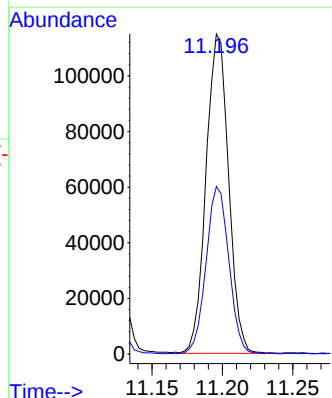
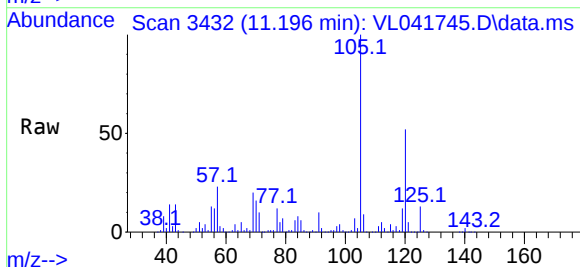
Manual Integrations
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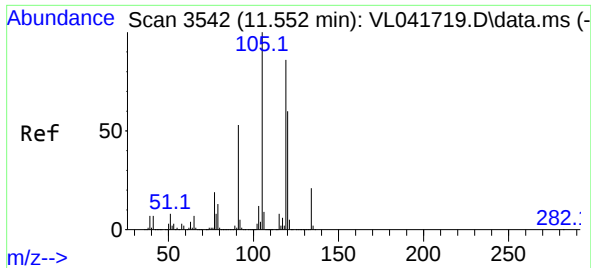
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#73
1,3,5-Trimethylbenzene
Concen: 1.198 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

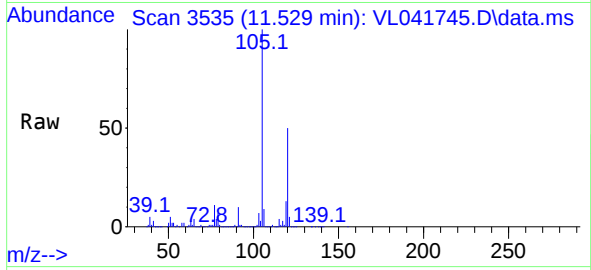
Tgt Ion:105 Resp: 127911
Ion Ratio Lower Upper
105 100
120 52.3 43.6 65.4





#74
1,2,4-Trimethylbenzene
Concen: 3.485 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL041745.D
Acq: 12 Dec 2024 11:36

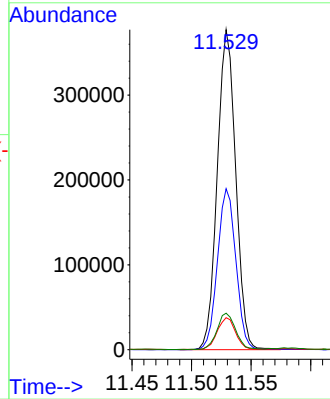
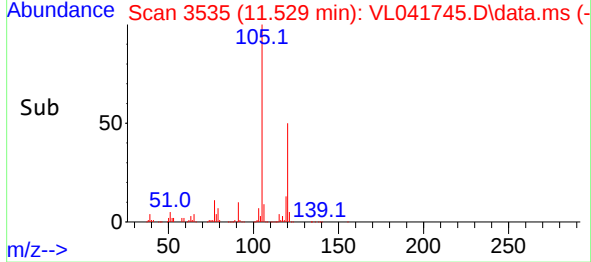
Instrument :
MSVOA_L
ClientSampleId :
IA3DL



Tgt Ion:	105	Resp:	40460
Ion	Ratio	Lower	Upper
105	100		
120	50.3	47.8	71.6
91	9.9	42.5	63.7
77	11.3	15.4	23.2

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Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	SV4	SDG No.:	P5150
Lab Sample ID:	P5150-05	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
VL041743.D	4		12/12/24 10:32	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
142-82-5	Heptane	0.44	1.80	U	1.80	8.20	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
110-82-7	Cyclohexane	0.88	3.03	U	3.03	6.88	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.36	1.43	U	1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.40	1.87	U	1.87	9.34	ug/m3
71-43-2	Benzene	0.35	1.12	U	1.12	6.39	ug/m3
107-06-2	1,2-Dichloroethane	0.36	1.46	U	1.46	8.09	ug/m3
79-01-6	Trichloroethene	3.10	16.7		0.38	0.64	ug/m3
108-88-3	Toluene	0.60	2.26	J	1.66	7.54	ug/m3
127-18-4	Tetrachloroethene	8.50	57.6		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	0.48	2.08	U	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	0.84	3.65	U	3.65	17.4	ug/m3
95-47-6	o-Xylene	0.48	2.08	U	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.44	2.16	U	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.31	1.52	U	1.52	9.83	ug/m3
91-20-3	Naphthalene	0.30	1.57	U	1.57	2.10	ug/m3
110-54-3	Hexane	2.20	7.75		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	250000		2.771			
540-36-3	1,4-Difluorobenzene	1200000		3.936			
3114-55-4	Chlorobenzene-d5	1040000		8.862			

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\VL121124\
 Data File : VL041743.D
 Acq On : 12 Dec 2024 10:32
 Operator : SY/MD
 Sample : P5150-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
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Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 16:06:13 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	249625	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.936	114	1199945	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.862	117	1042032	10.000	ppbv	-0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	694234	10.134	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.492	85	5379	0.123	ppbv	98
4) Chloromethane	1.525	50	1379	0.119	ppbv #	69
9) Propene	1.476	41	3096	0.214	ppbv	91
10) Heptane	4.949	43	3682m	0.092	ppbv	
13) Ethanol	1.712	45	5447	4.545	ppbv #	34
15) Acetone	1.826	43	21235	0.737	ppbv	92
19) Isopropyl Alcohol	1.878	45	9733	0.356	ppbv #	33
20) Methylene Chloride	2.052	84	11660	0.668	ppbv	96
26) Hexane	2.813	57	20949	0.539	ppbv #	44
29) Chloroform	2.832	83	19476	0.327	ppbv	90
34) 2-Butanone	2.548	43	10130	0.241	ppbv	98
38) Trichloroethene	4.525	130	37620	0.769	ppbv	96
52) Tetrachloroethene	8.205	164	105982	2.120	ppbv	97
53) Toluene	6.911	91	16938m	0.146	ppbv	

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

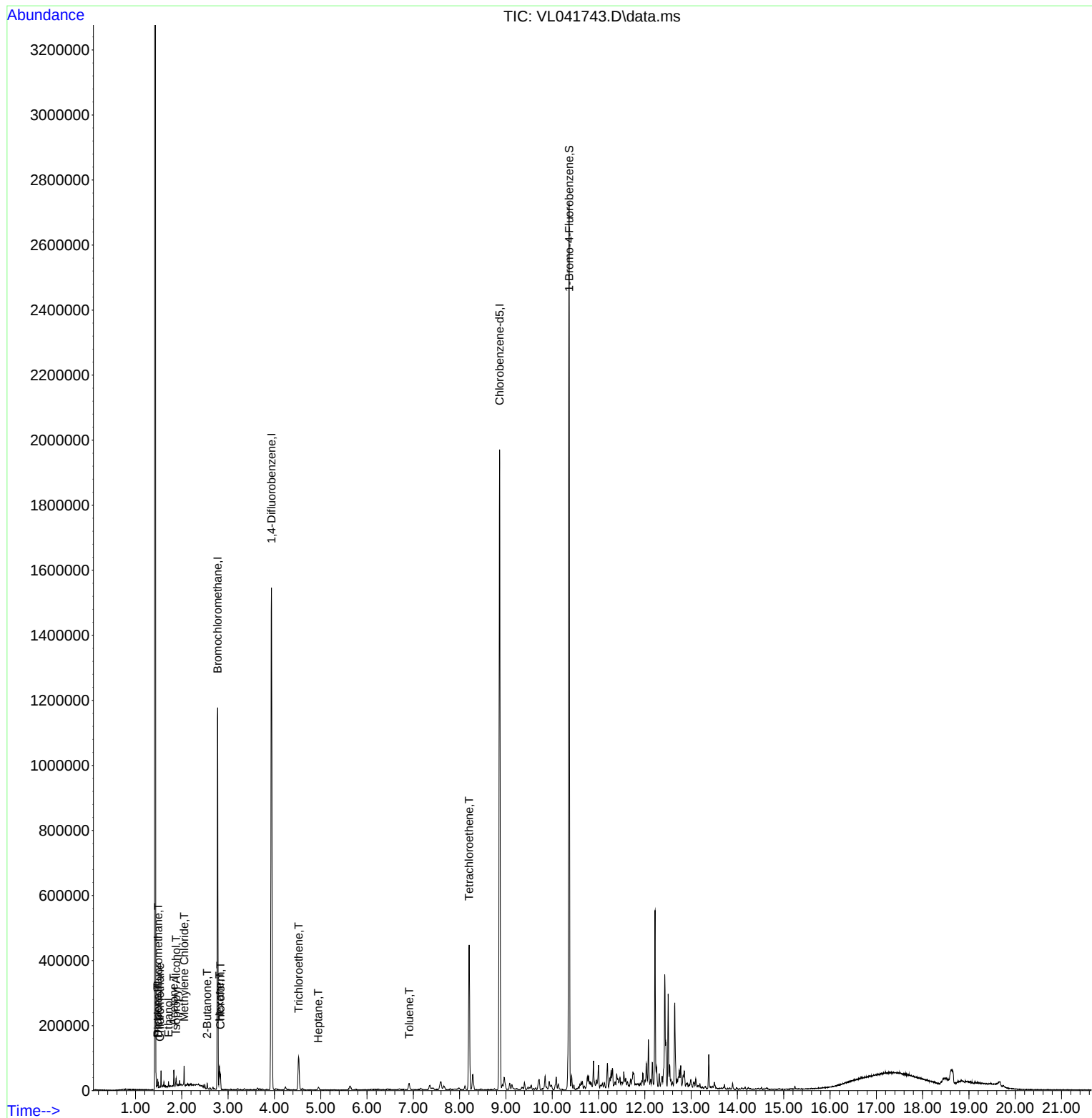
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041743.D
Acq On : 12 Dec 2024 10:32
Operator : SY/MD
Sample : P5150-05 4X
Misc : 400mL/MSVOA_L
ALS Vial : 11 Sample Multiplier: 1

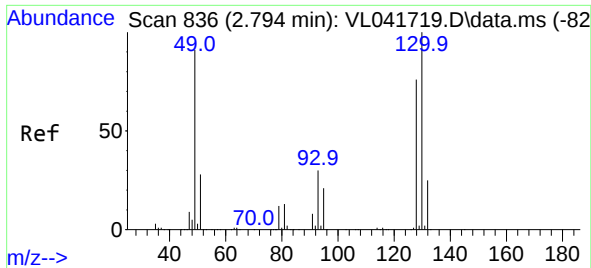
Instrument :
MSVOA_L
ClientSampleId :
SV4

Quant Time: Dec 12 16:06:13 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024





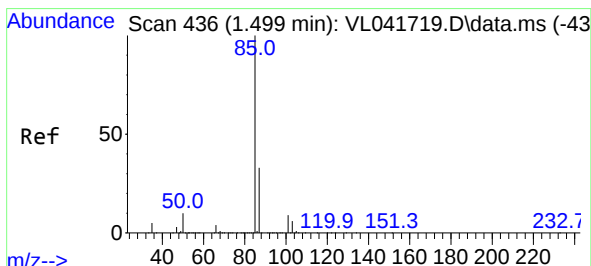
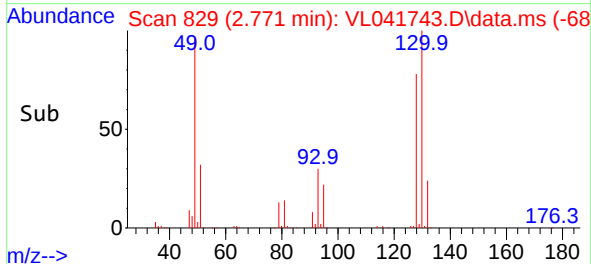
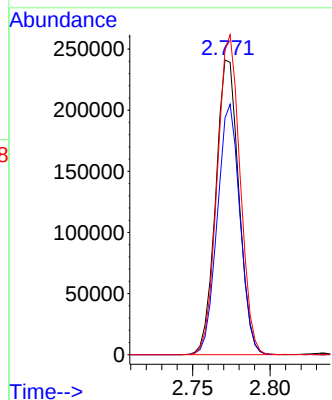
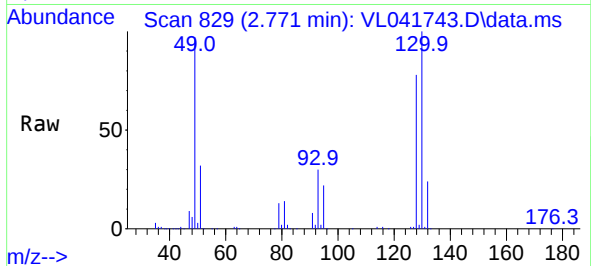
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.771 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 49 Resp: 24962
Ion Ratio Lower Upper
49 100
128 83.5 42.8 128.3
130 107.7 55.8 167.4

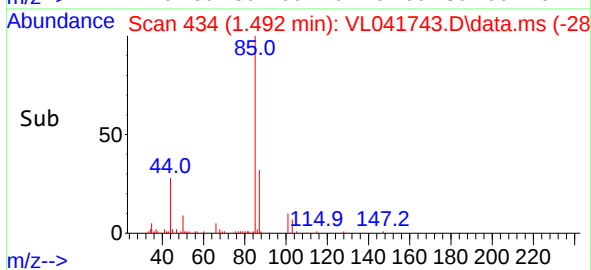
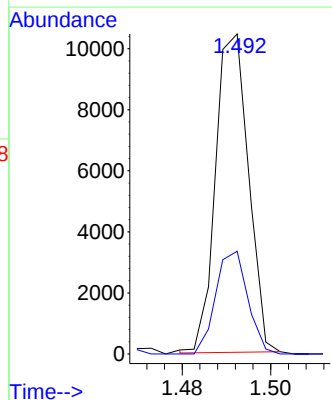
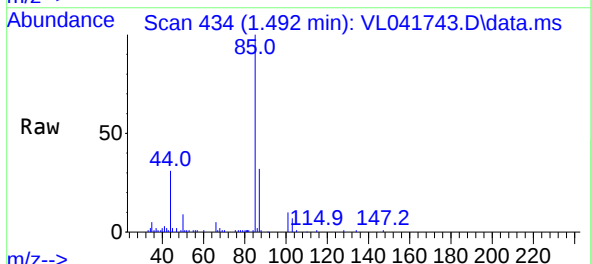
Manual Integrations
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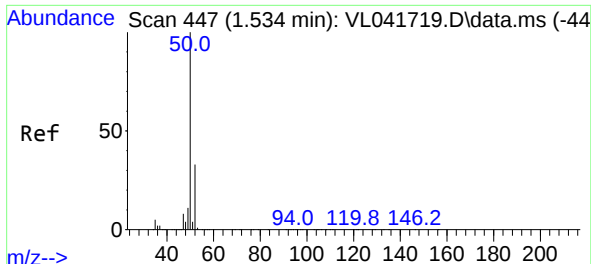
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#2
Dichlorodifluoromethane
Concen: 0.123 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.006 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

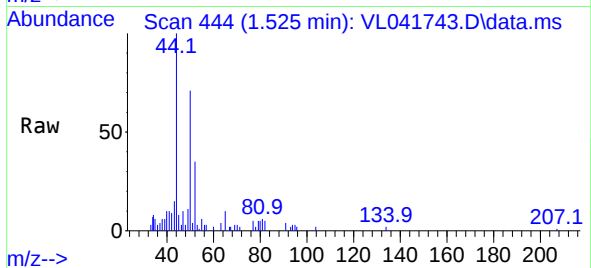
Tgt Ion: 85 Resp: 5379
Ion Ratio Lower Upper
85 100
87 32.3 26.6 39.8





#4
Chloromethane
Concen: 0.119 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

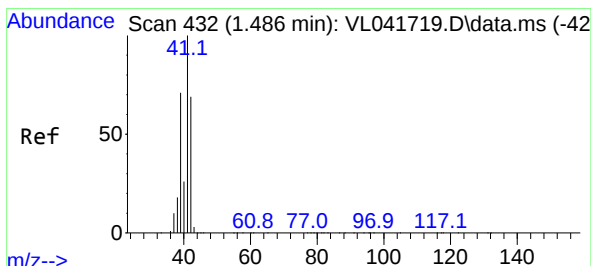
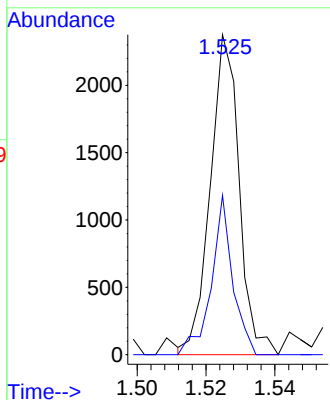
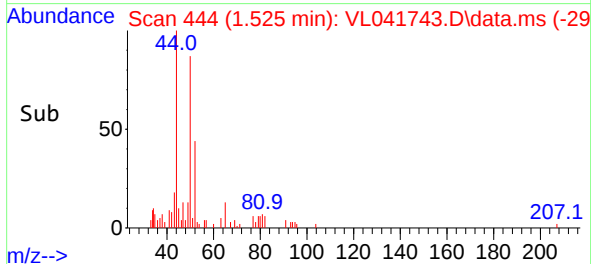
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 50 Resp: 1379
Ion Ratio Lower Upper
50 100
52 51.0 26.6 40.0

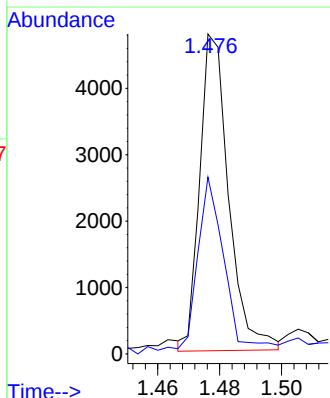
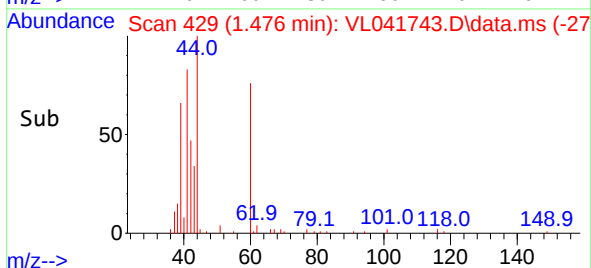
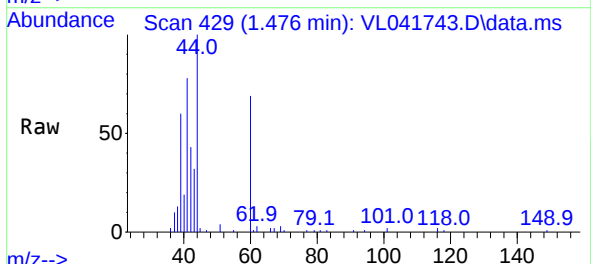
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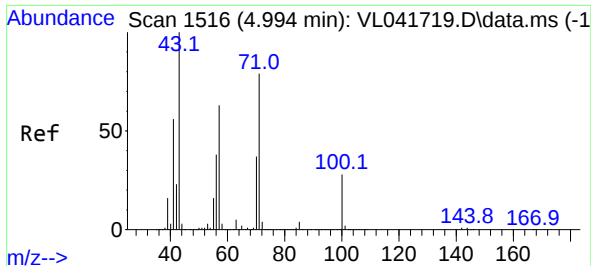
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#9
Propene
Concen: 0.214 ppbv
RT: 1.476 min Scan# 429
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

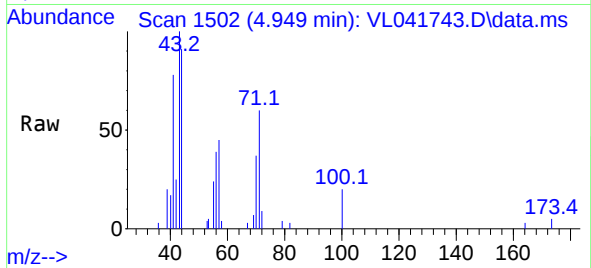
Tgt Ion: 41 Resp: 3096
Ion Ratio Lower Upper
41 100
42 62.8 56.2 84.4





#10
Heptane
Concen: 0.092 ppbv m
RT: 4.949 min Scan# 11
Delta R.T. -0.045 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

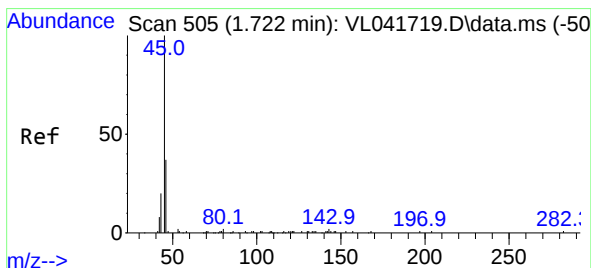
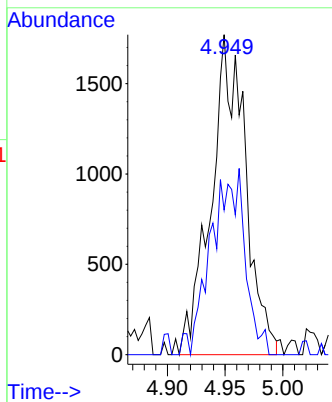
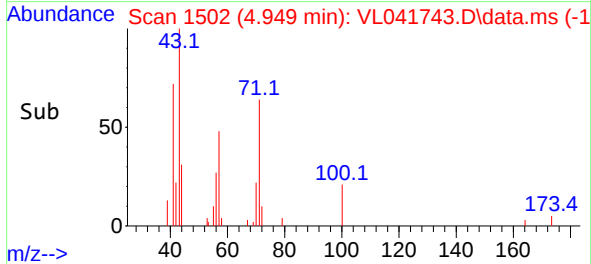
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion: 43 Resp: 368
Ion Ratio Lower Upper
43 100
57 0.0 50.5 75.7

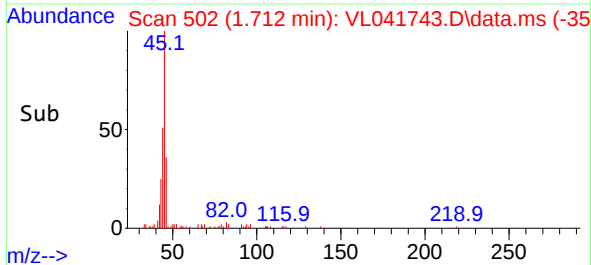
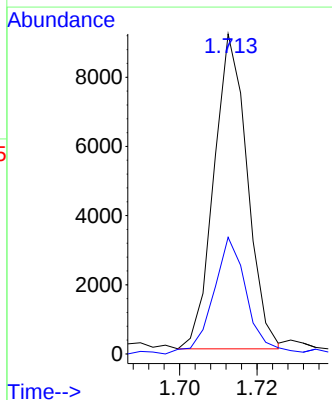
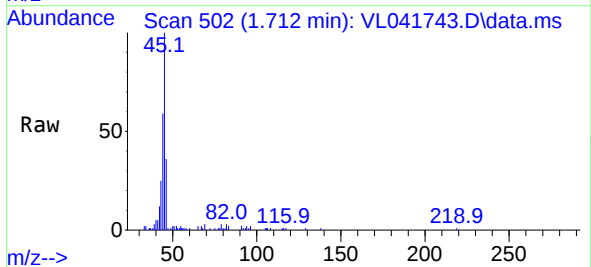
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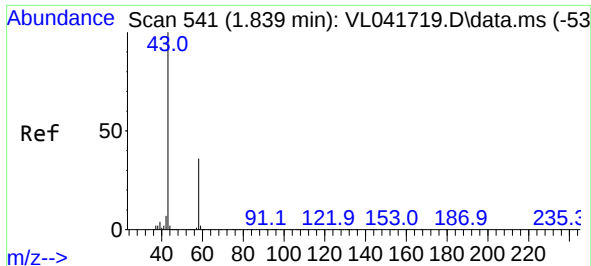
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#13
Ethanol
Concen: 4.545 ppbv
RT: 1.712 min Scan# 502
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

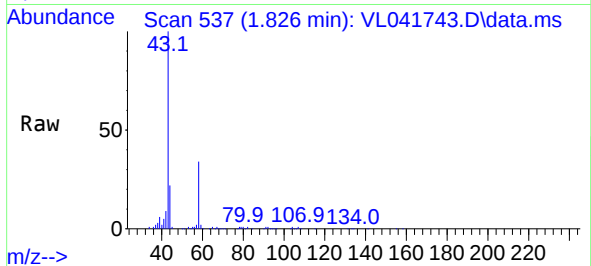
Tgt Ion: 45 Resp: 5447
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.6





#15
Acetone
Concen: 0.737 ppbv
RT: 1.826 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

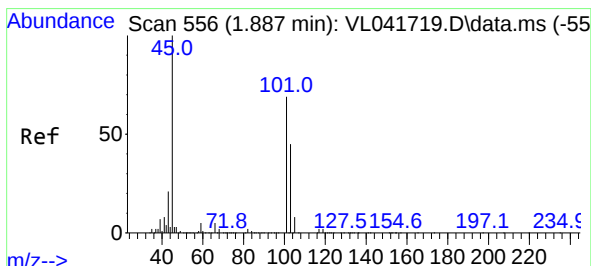
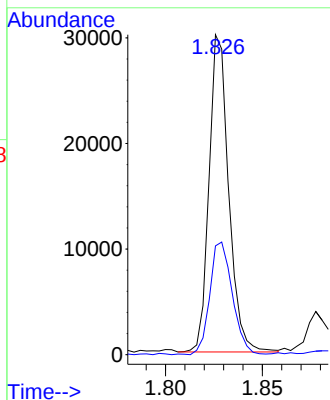
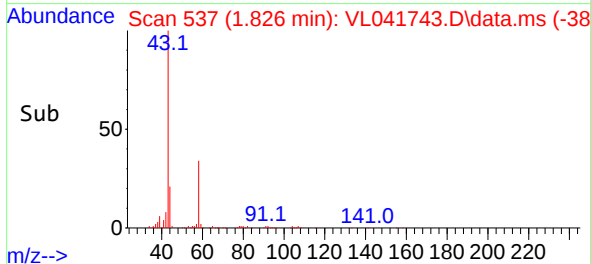
Instrument :
MSVOA_L
ClientSampleId :
SV4



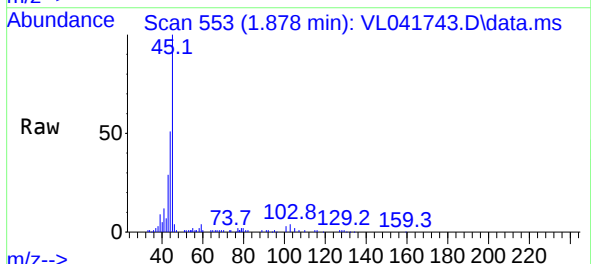
Tgt Ion: 43 Resp: 2123
Ion Ratio Lower Upper
43 100
58 41.1 28.9 43.3

Manual Integrations
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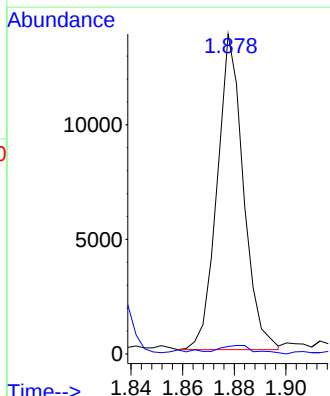
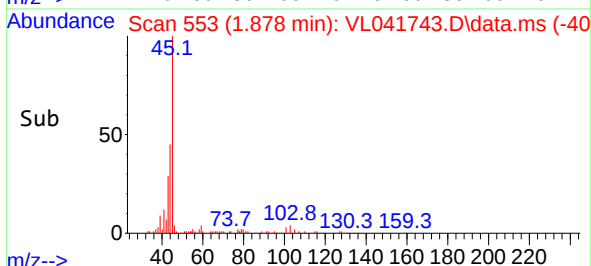
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

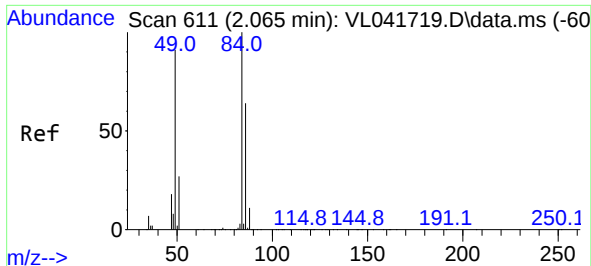


#19
Isopropyl Alcohol
Concen: 0.356 ppbv
RT: 1.878 min Scan# 553
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32



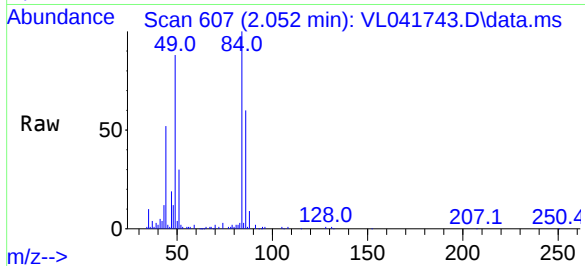
Tgt Ion: 45 Resp: 9733
Ion Ratio Lower Upper
45 100
58 4.2 40.6 61.0#





#20
Methylene Chloride
Concen: 0.668 ppbv
RT: 2.052 min Scan# 611
Delta R.T. -0.013 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

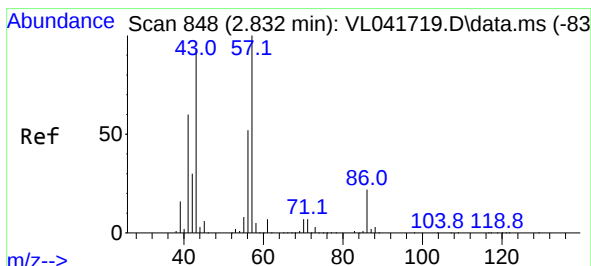
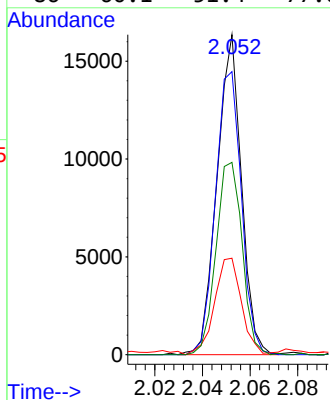
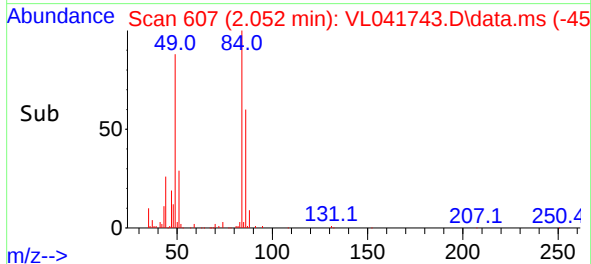
Instrument :
MSVOA_L
ClientSampleId :
SV4



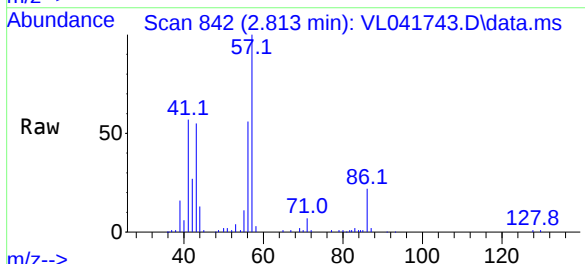
Tgt Ion: 84 Resp: 11660
Ion Ratio Lower Upper
84 100
49 88.5 73.6 110.4
51 29.4 22.7 34.1
86 60.1 51.4 77.0

Manual Integrations
APPROVED

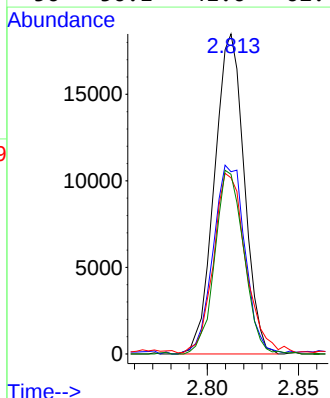
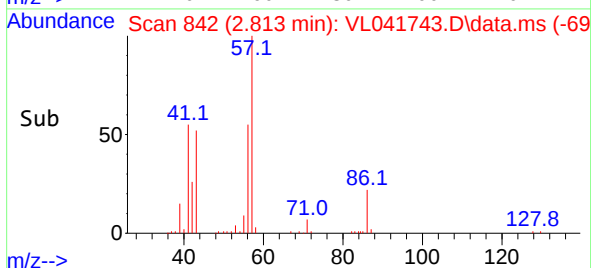
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

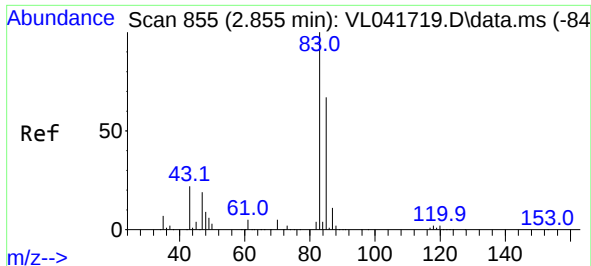


#26
Hexane
Concen: 0.539 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.019 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32



Tgt Ion: 57 Resp: 20949
Ion Ratio Lower Upper
57 100
41 63.8 49.5 74.3
43 61.1 150.6 225.8#
56 56.1 41.6 62.4





#29

Chloroform

Concen: 0.327 ppbv

RT: 2.832 min Scan# 84

Delta R.T. -0.023 min

Lab File: VL041743.D

Acq: 12 Dec 2024 10:32

Instrument :

MSVOA_L

ClientSampleId :

SV4

Tgt Ion: 83 Resp: 19470

Ion Ratio Lower Upper

83 100

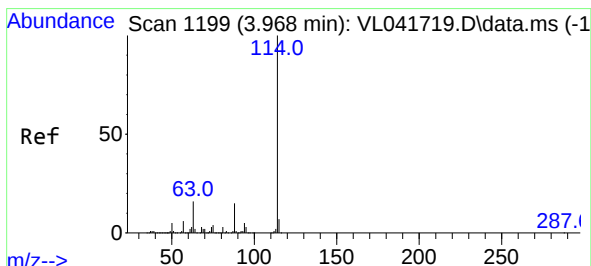
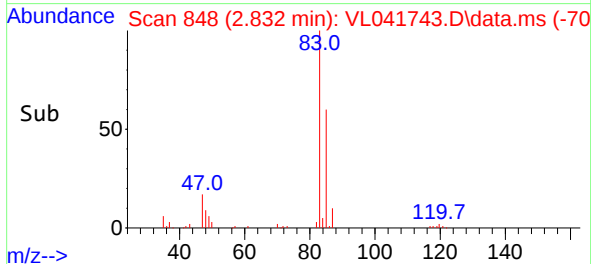
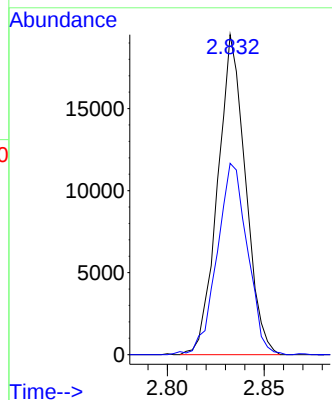
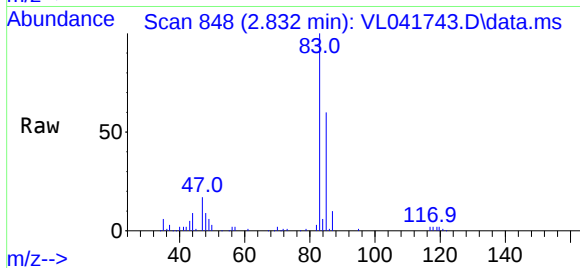
85 59.2 53.6 80.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.936 min Scan# 1189

Delta R.T. -0.032 min

Lab File: VL041743.D

Acq: 12 Dec 2024 10:32

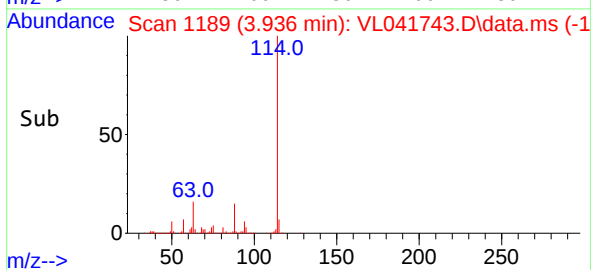
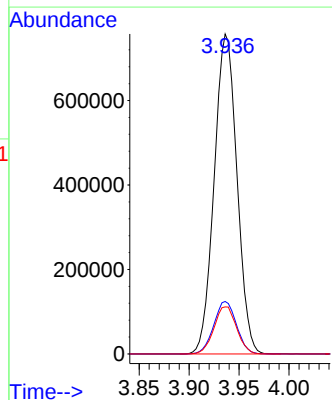
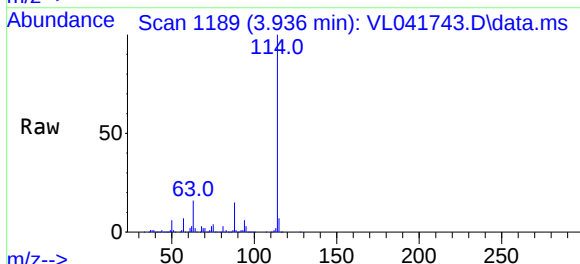
Tgt Ion:114 Resp: 1199945

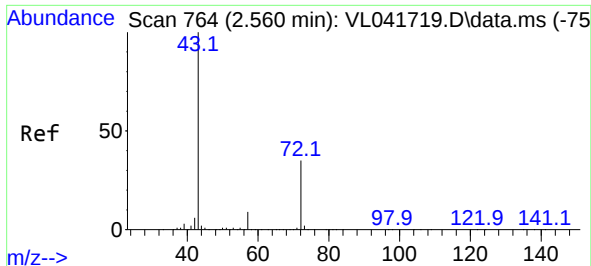
Ion Ratio Lower Upper

114 100

63 16.3 12.9 19.3

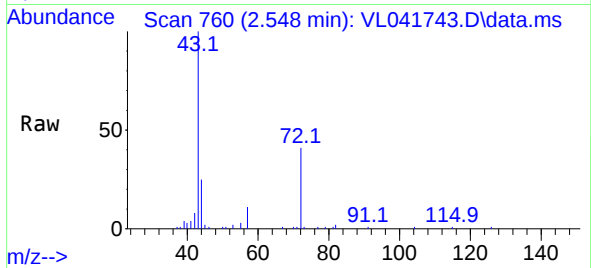
88 14.7 11.8 17.6





#34
2-Butanone
Concen: 0.241 ppbv
RT: 2.548 min Scan# 760
Delta R.T. -0.013 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

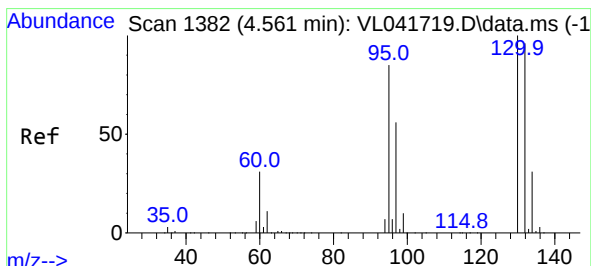
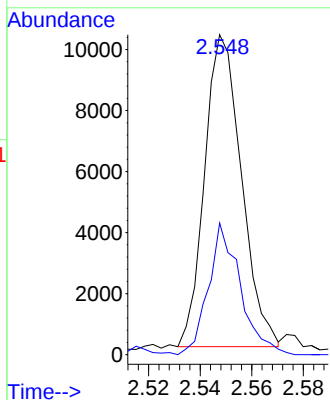
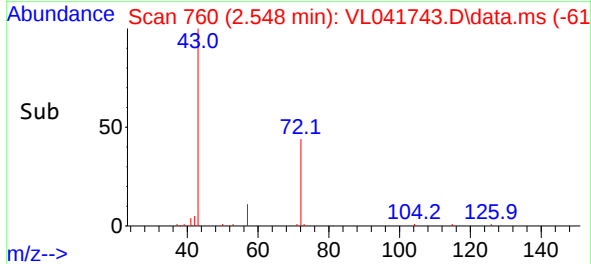
Instrument :
MSVOA_L
ClientSampleId :
SV4



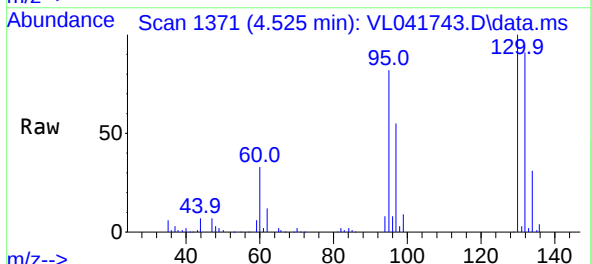
Tgt Ion: 43 Resp: 10130
Ion Ratio Lower Upper
43 100
72 36.4 28.3 42.5

Manual Integrations
APPROVED

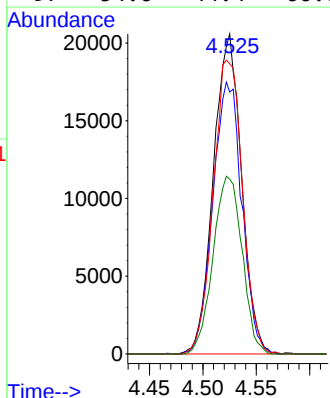
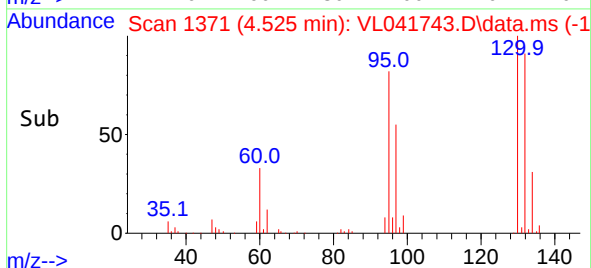
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

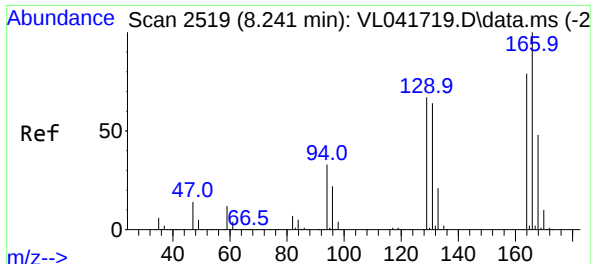


#38
Trichloroethene
Concen: 0.769 ppbv
RT: 4.525 min Scan# 1371
Delta R.T. -0.036 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32



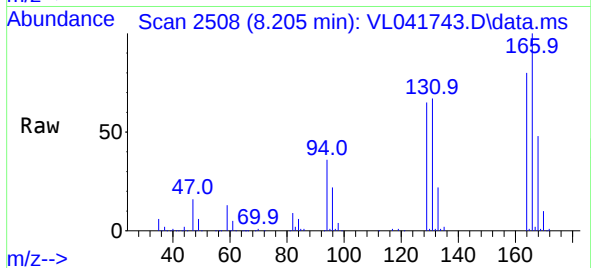
Tgt Ion:130 Resp: 37620
Ion Ratio Lower Upper
130 100
95 81.8 68.0 102.0
132 90.7 76.5 114.7
97 54.6 44.4 66.6





#52
Tetrachloroethene
Concen: 2.120 ppbv
RT: 8.205 min Scan# 2108
Delta R.T. -0.036 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

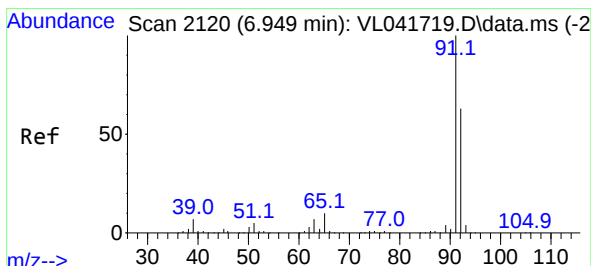
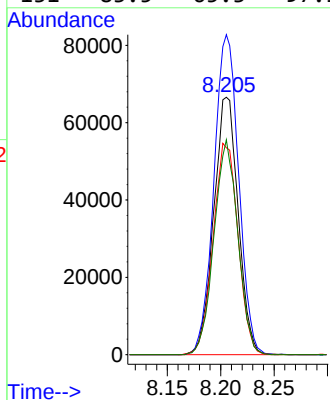
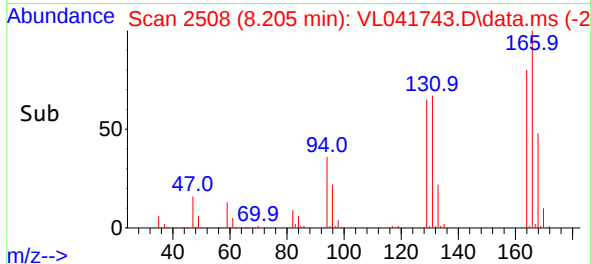
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion:164 Resp: 10598
Ion Ratio Lower Upper
164 100
166 124.3 101.4 152.0
129 80.4 67.6 101.4
131 83.5 65.3 97.9

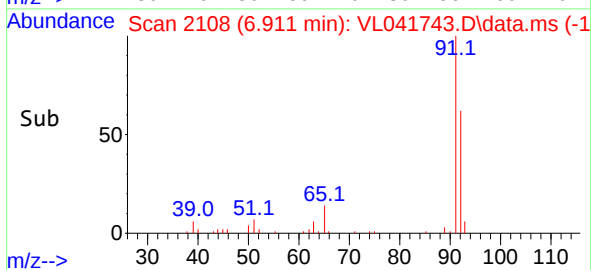
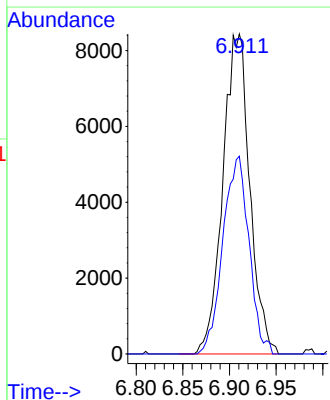
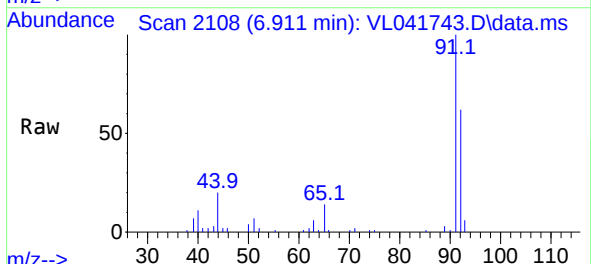
Manual Integrations
APPROVED

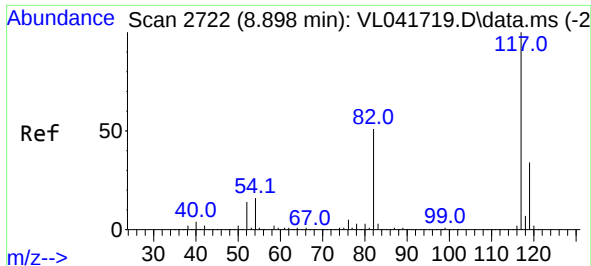
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#53
Toluene
Concen: 0.146 ppbv m
RT: 6.911 min Scan# 2108
Delta R.T. -0.039 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

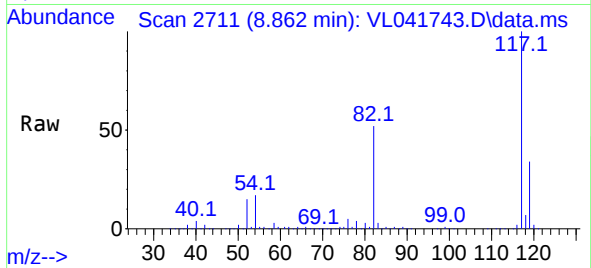
Tgt Ion: 91 Resp: 16938
Ion Ratio Lower Upper
91 100
92 0.0 49.7 74.5#





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 21
Delta R.T. -0.036 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

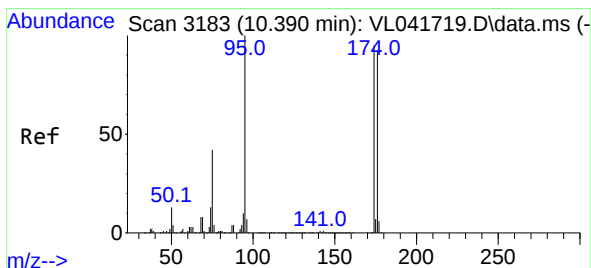
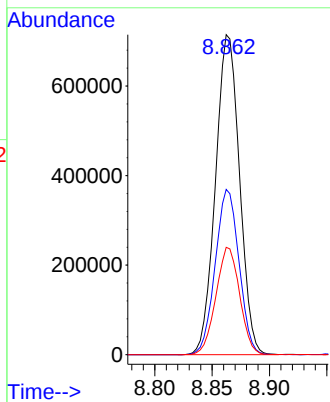
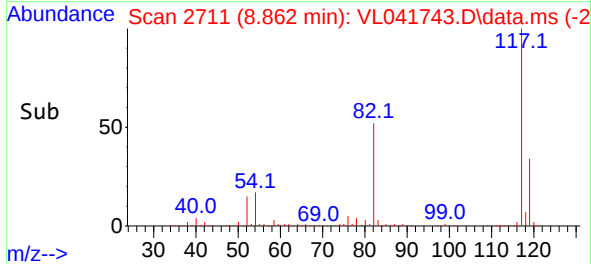
Instrument :
MSVOA_L
ClientSampleId :
SV4



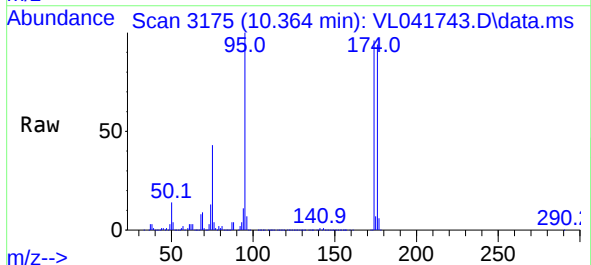
Tgt Ion: 117 Resp: 104203
Ion Ratio Lower Upper
117 100
82 51.1 41.3 61.9
119 33.2 25.8 38.8

Manual Integrations
APPROVED

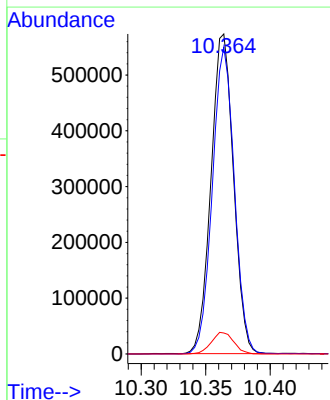
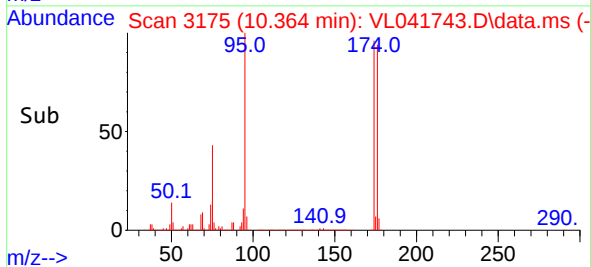
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.134 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.026 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32



Tgt Ion: 95 Resp: 694234
Ion Ratio Lower Upper
95 100
174 93.9 76.7 115.1
175 6.7 5.4 8.2



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	IA4	SDG No.:	P5150
Lab Sample ID:	P5150-06	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
VL041740.D	1		12/12/24 08:59	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
142-82-5	Heptane	1.10	4.51		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.72	2.48		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.16	0.75	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.54	1.73		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.12	0.64		0.11	0.16	ug/m3
108-88-3	Toluene	1.80	6.78		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.21	1.42		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.56	2.43		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.60	6.95		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.65	2.82		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.23	1.13	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.72	3.54		0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	3.10	10.9		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	252000			2.774		
540-36-3	1,4-Difluorobenzene	1220000			3.939		
3114-55-4	Chlorobenzene-d5	1070000			8.869		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041740.D
 Acq On : 12 Dec 2024 08:59
 Operator : SY/MD
 Sample : P5150-06
 Misc : 400mL/MSVOA_L
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 09:22:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 07:13:56 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	252280	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.939	114	1219819	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.869	117	1070761	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 716714 10.182 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.800%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.492	85	18213	0.411	ppbv	99
3) Chlorodifluoromethane	1.470	51	6890m	0.201	ppbv	
4) Chloromethane	1.525	50	5401	0.460	ppbv	95
9) Propene	1.479	41	15340m	1.047	ppbv	
10) Heptane	4.959	43	45389	1.121	ppbv	96
11) Trichlorofluoromethane	1.871	101	10869	0.213	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.130	101	2916	0.064	ppbv	91
13) Ethanol	1.712	45	172954	142.783	ppbv	96
15) Acetone	1.826	43	894029	30.694	ppbv	99
19) Isopropyl Alcohol	1.877	45	54449	1.968	ppbv #	1
26) Hexane	2.813	57	121623	3.098	ppbv #	47
29) Chloroform	2.835	83	26115	0.435	ppbv	99
30) Cyclohexane	3.839	84	31875	0.722	ppbv	97
34) 2-Butanone	2.547	43	16231m	0.380	ppbv	
35) Carbon Tetrachloride	3.748	117	3454	0.061	ppbv	88
36) Benzene	3.641	78	52020	0.542	ppbv	98
38) Trichloroethene	4.525	130	5929	0.119	ppbv #	88
44) 2,2,4-Trimethylpentane	4.622	57	20866	0.156	ppbv #	63
52) Tetrachloroethene	8.211	164	10600	0.209	ppbv	96
53) Toluene	6.914	91	208509	1.769	ppbv	99
58) Ethyl Benzene	9.341	91	80883	0.564	ppbv	92
59) m/p-Xylene	9.519	91	177369	1.616	ppbv	98
60) o-Xylene	9.950	91	70636	0.649	ppbv	97
62) Isopropylbenzene	10.526	105	14408	0.080	ppbv	93
64) n-propylbenzene	10.982	120	8886	0.168	ppbv	81
70) n-Butylbenzene	12.273	91	11390	0.072	ppbv #	52
72) 4-Ethyltoluene	11.115	105	31686	0.225	ppbv #	52
73) 1,3,5-Trimethylbenzene	11.196	105	26075	0.229	ppbv	98
74) 1,2,4-Trimethylbenzene	11.529	105	89611	0.725	ppbv #	67

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

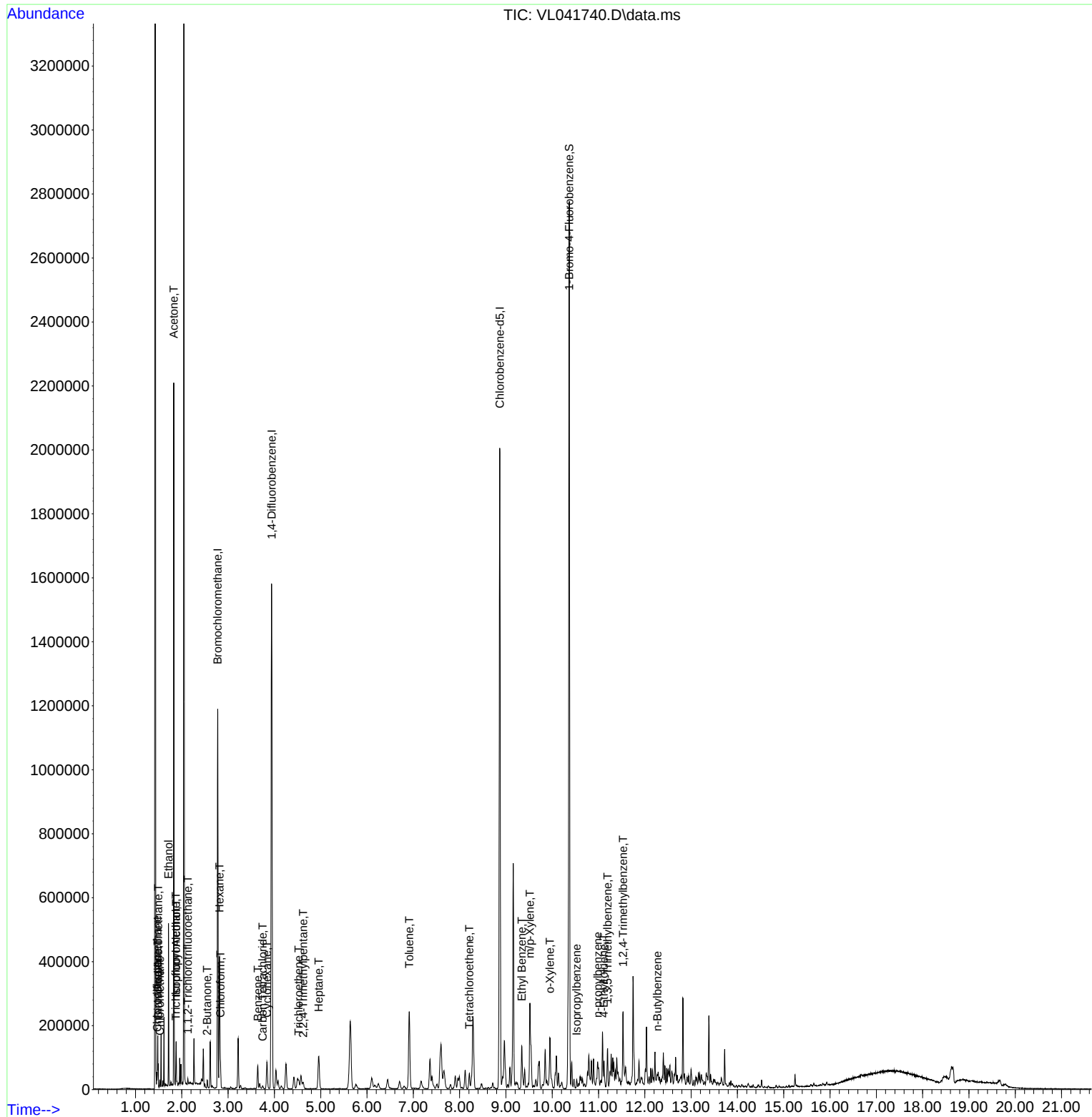
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041740.D
Acq On : 12 Dec 2024 08:59
Operator : SY/MD
Sample : P5150-06
Misc : 400mL/MSVOA_L
ALS Vial : 8 Sample Multiplier: 1

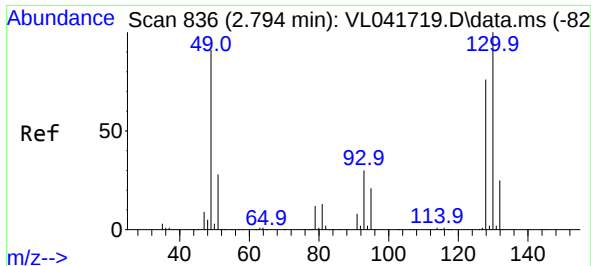
Instrument :
MSVOA_L
ClientSampleId :
IA4

Quant Time: Dec 12 09:22:20 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 07:13:56 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

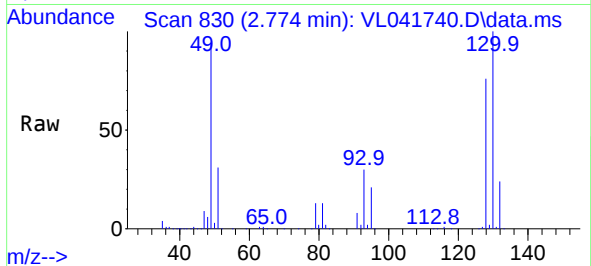
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 836
Delta R.T. -0.020 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

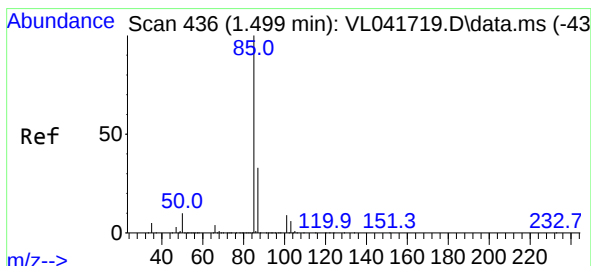
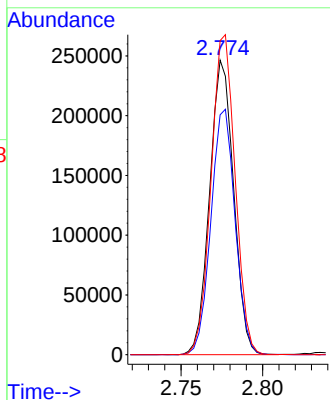
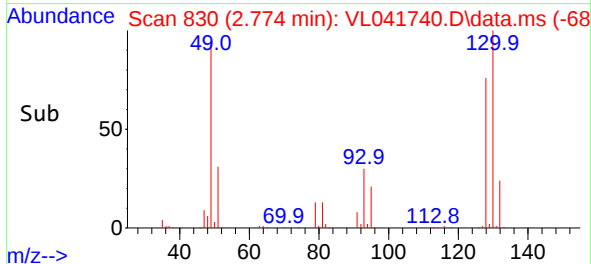
Instrument :
MSVOA_L
ClientSampleId :
IA4



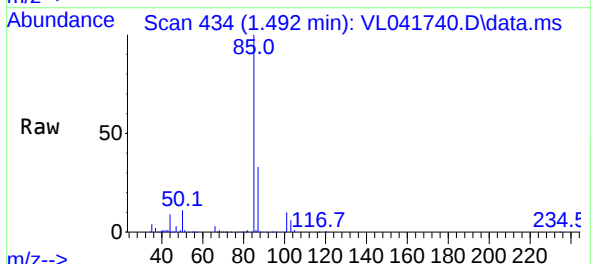
Tgt Ion: 49 Resp: 252280
Ion Ratio Lower Upper
49 100
128 84.0 42.8 128.3
130 108.9 55.8 167.4

Manual Integrations
APPROVED

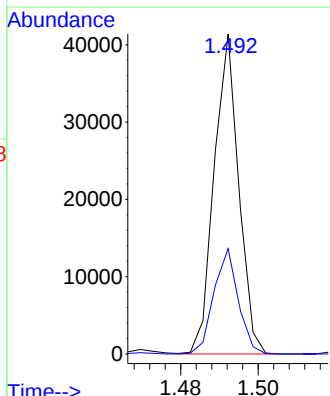
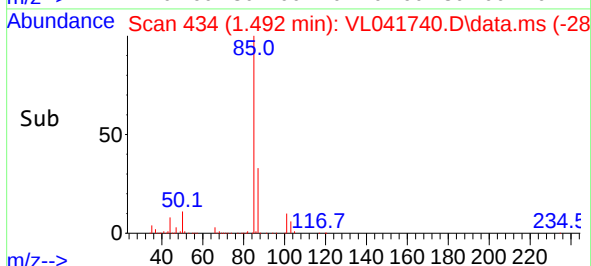
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

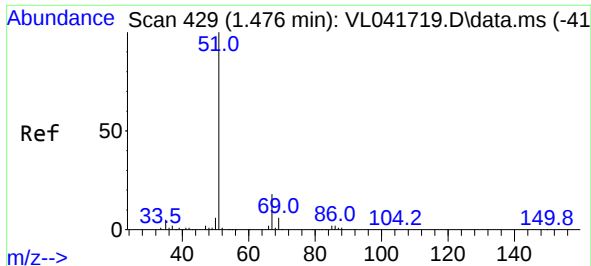


#2
Dichlorodifluoromethane
Concen: 0.411 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



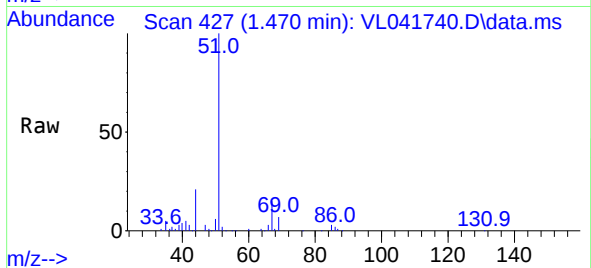
Tgt Ion: 85 Resp: 18213
Ion Ratio Lower Upper
85 100
87 32.9 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.201 ppbv m
RT: 1.470 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

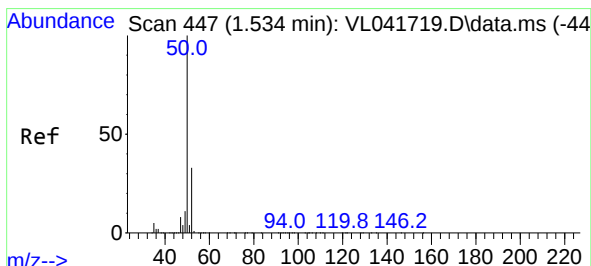
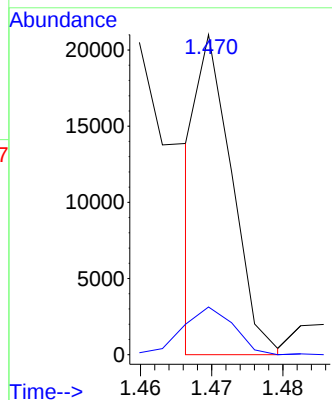
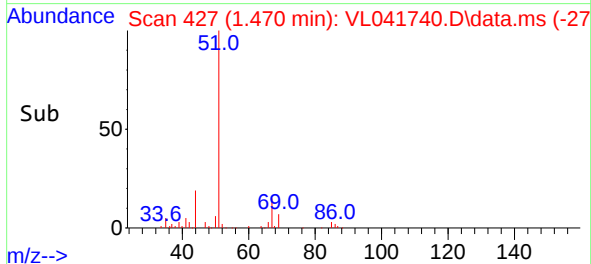
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion: 51 Resp: 6890
Ion Ratio Lower Upper
51 100
67 23.6 14.6 21.8

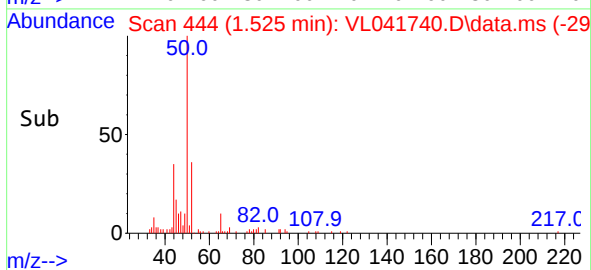
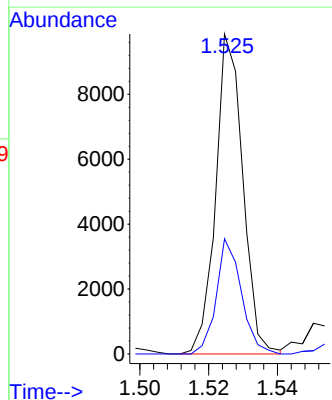
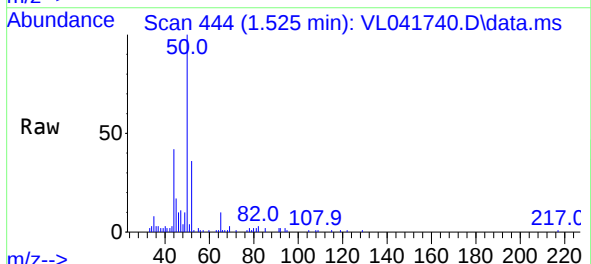
Manual Integrations
APPROVED

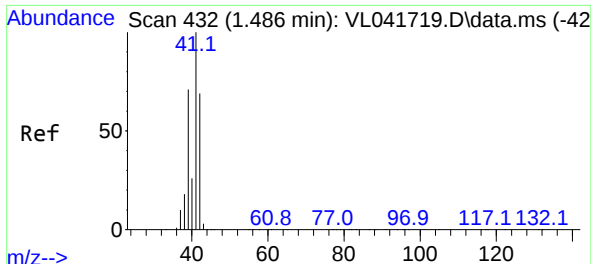
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#4
Chloromethane
Concen: 0.460 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.010 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

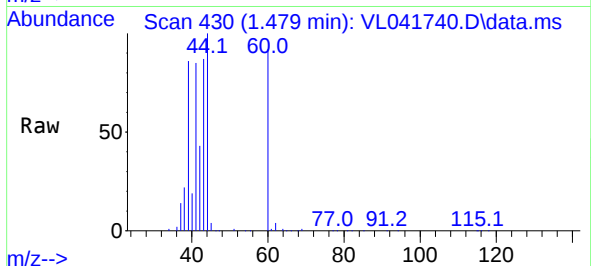
Tgt Ion: 50 Resp: 5401
Ion Ratio Lower Upper
50 100
52 36.0 26.6 40.0





#9
Propene
Concen: 1.047 ppbv m
RT: 1.479 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

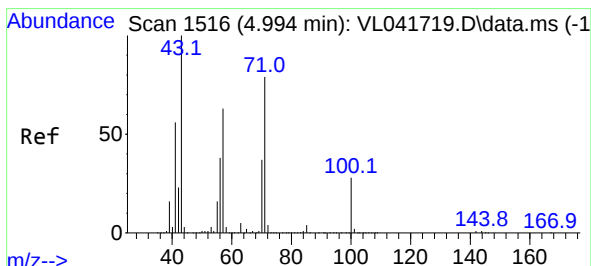
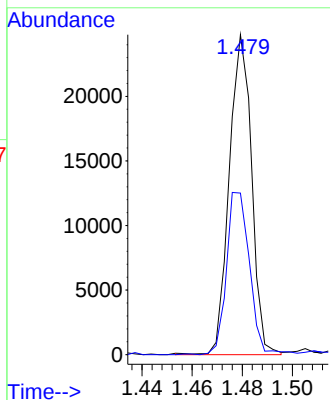
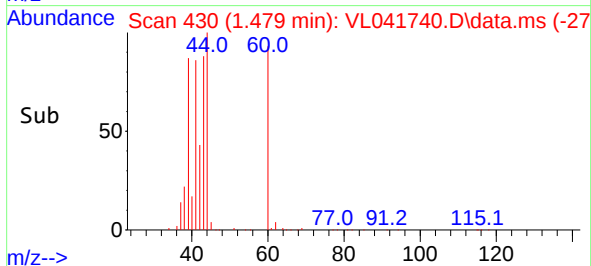
Instrument :
MSVOA_L
ClientSampleId :
IA4



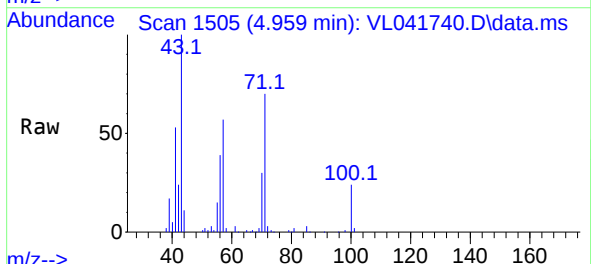
Tgt Ion: 41 Resp: 15340
Ion Ratio Lower Upper
41 100
42 70.7 56.2 84.4

Manual Integrations
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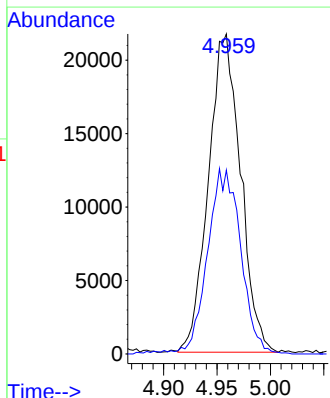
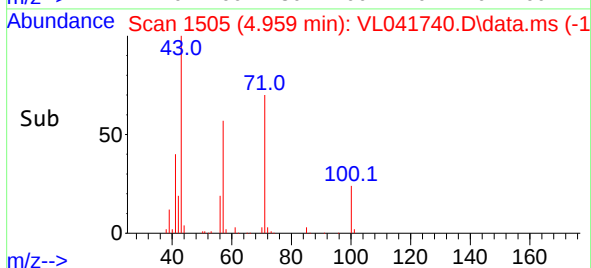
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

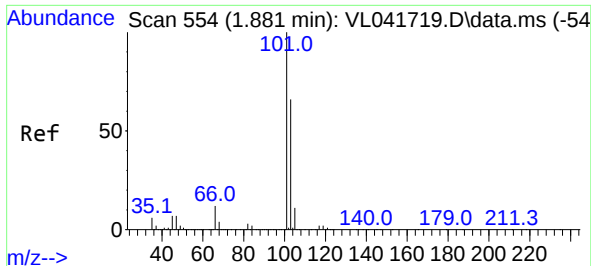


#10
Heptane
Concen: 1.121 ppbv
RT: 4.959 min Scan# 1505
Delta R.T. -0.036 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



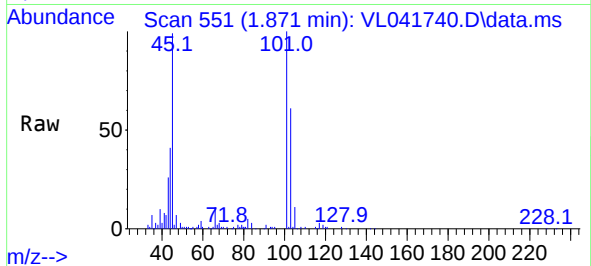
Tgt Ion: 43 Resp: 45389
Ion Ratio Lower Upper
43 100
57 60.3 50.5 75.7





#11
Trichlorofluoromethane
Concen: 0.213 ppbv
RT: 1.871 min Scan# 511
Delta R.T. -0.010 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

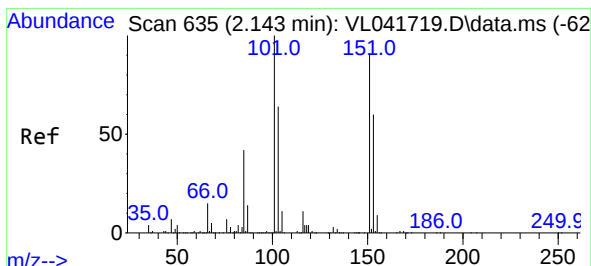
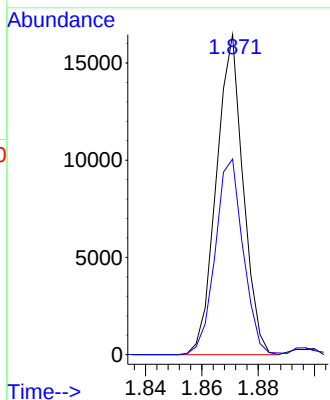
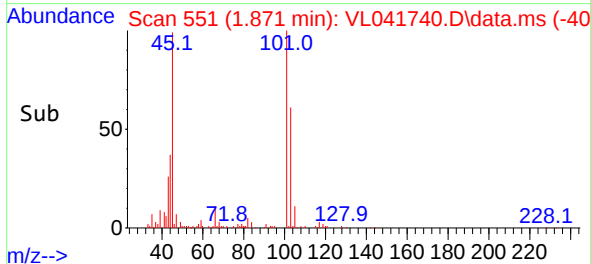
Instrument :
MSVOA_L
ClientSampleId :
IA4



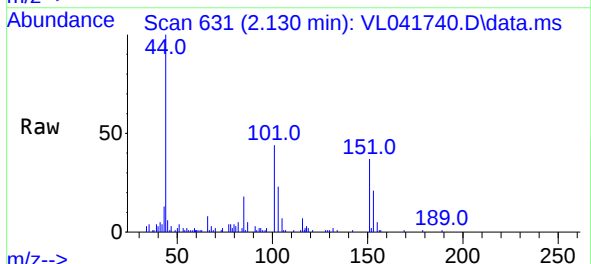
Tgt Ion:101 Resp: 10869
Ion Ratio Lower Upper
101 100
103 61.2 52.7 79.1

Manual Integrations
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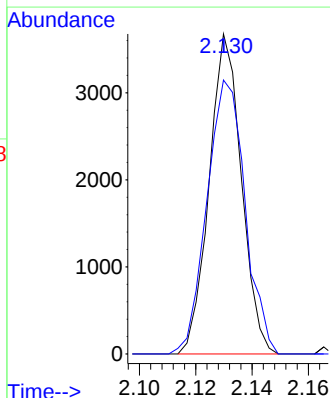
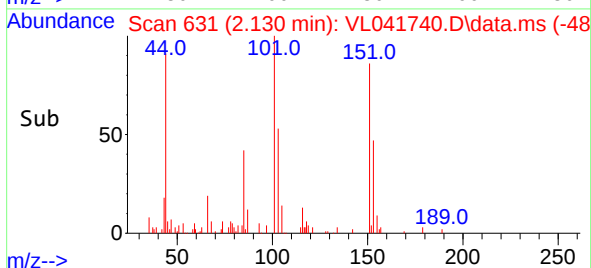
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

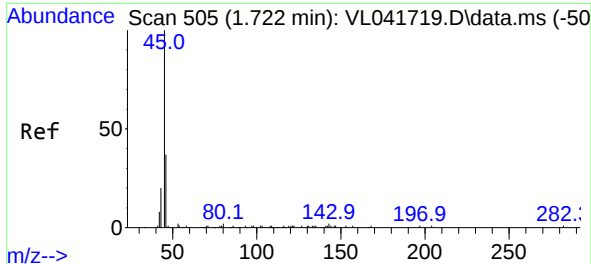


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.064 ppbv
RT: 2.130 min Scan# 631
Delta R.T. -0.013 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



Tgt Ion:101 Resp: 2916
Ion Ratio Lower Upper
101 100
151 101.4 74.4 111.6





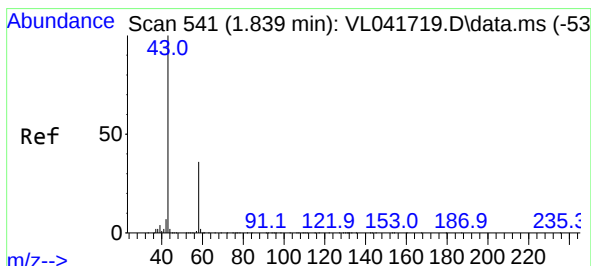
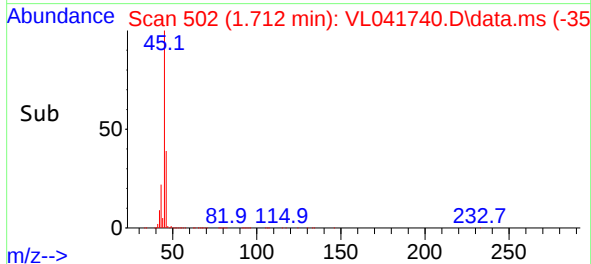
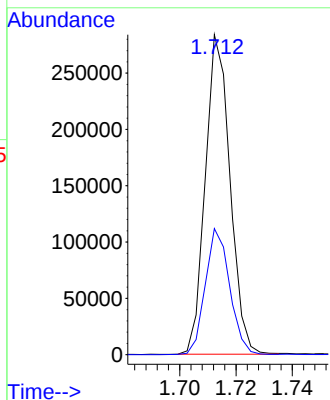
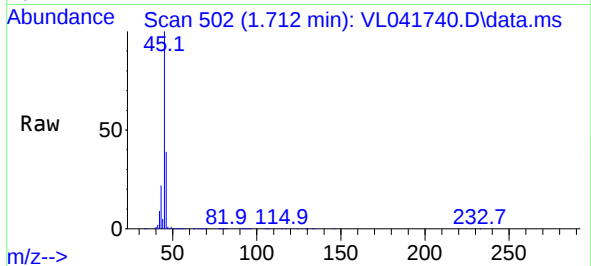
#13
Ethanol
Concen: 142.783 ppbv
RT: 1.712 min Scan# 50
Delta R.T. -0.010 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tgt Ion: 45 Resp: 172954
Ion Ratio Lower Upper
45 100
46 39.3 16.6 66.6

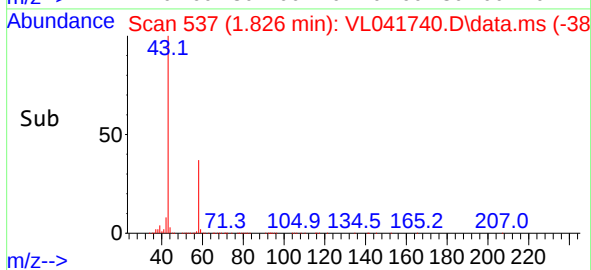
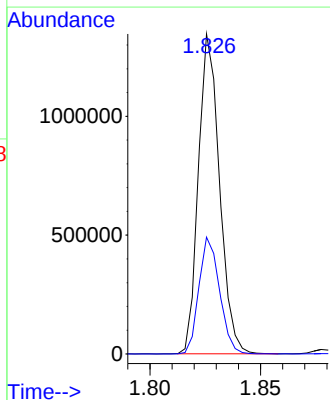
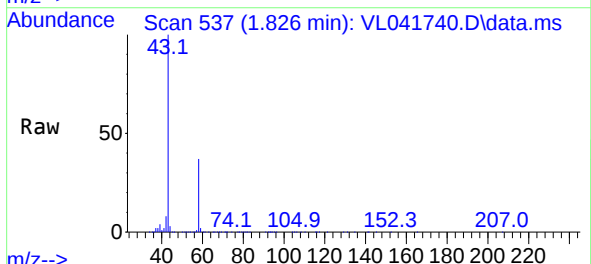
Manual Integrations
APPROVED

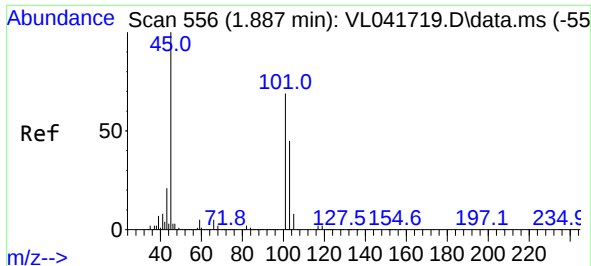
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#15
Acetone
Concen: 30.694 ppbv
RT: 1.826 min Scan# 537
Delta R.T. -0.013 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

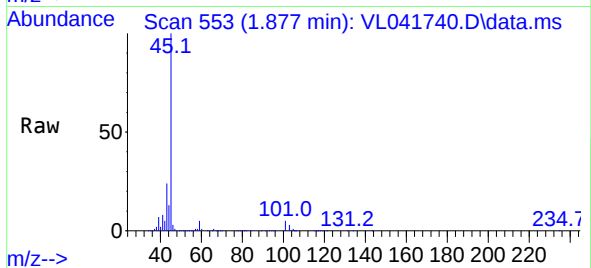
Tgt Ion: 43 Resp: 894029
Ion Ratio Lower Upper
43 100
58 35.7 28.9 43.3





#19
Isopropyl Alcohol
Concen: 1.968 ppbv
RT: 1.877 min Scan# 511
Delta R.T. -0.010 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

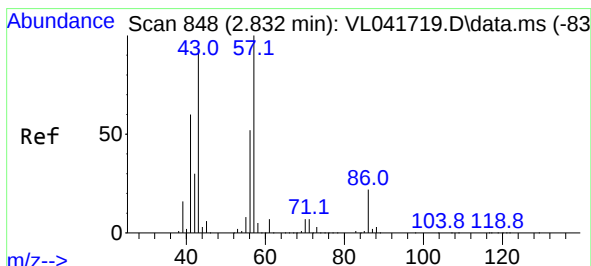
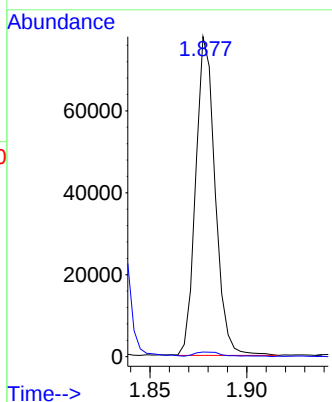
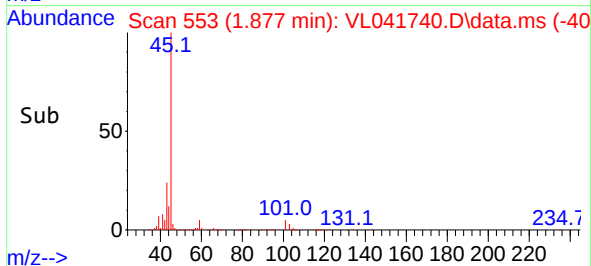
Instrument :
MSVOA_L
ClientSampleId :
IA4



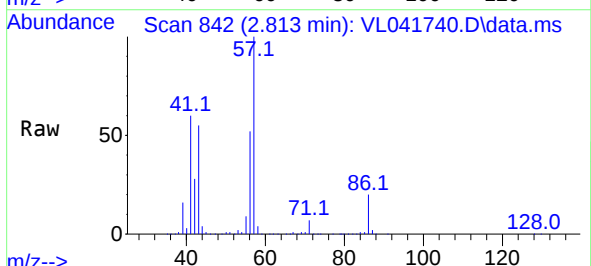
Tgt Ion: 45 Resp: 54449
Ion Ratio Lower Upper
45 100
58 587.2 40.6 61.0

Manual Integrations
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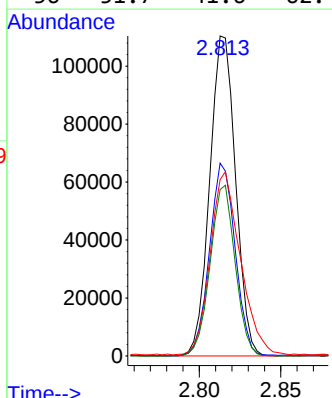
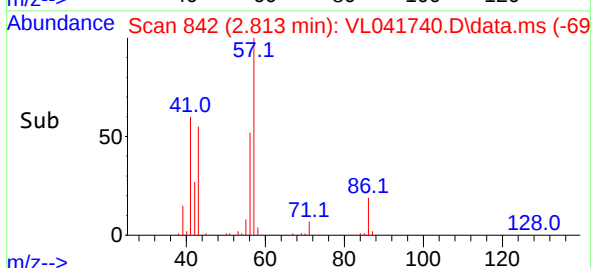
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

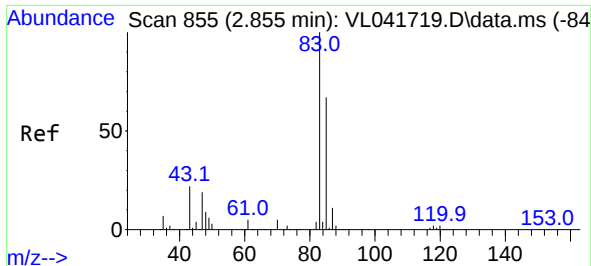


#26
Hexane
Concen: 3.098 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.020 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



Tgt Ion: 57 Resp: 121623
Ion Ratio Lower Upper
57 100
41 59.4 49.5 74.3
43 66.5 150.6 225.8#
56 51.7 41.6 62.4





#29

Chloroform

Concen: 0.435 ppbv

RT: 2.835 min Scan# 84

Delta R.T. -0.020 min

Lab File: VL041740.D

Acq: 12 Dec 2024 08:59

Instrument :

MSVOA_L

ClientSampleId :

IA4

Tgt Ion: 83 Resp: 2611

Ion Ratio Lower Upper

83 100

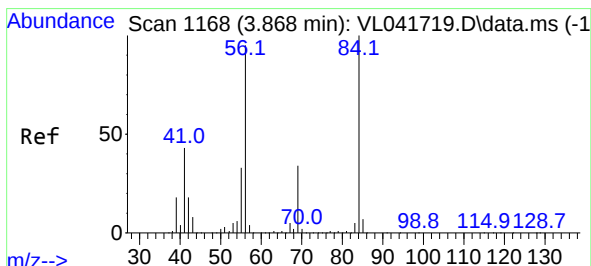
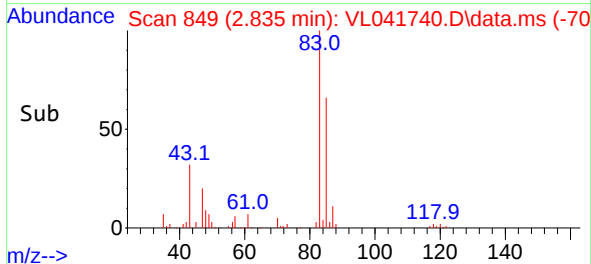
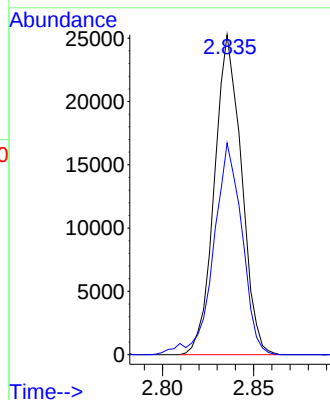
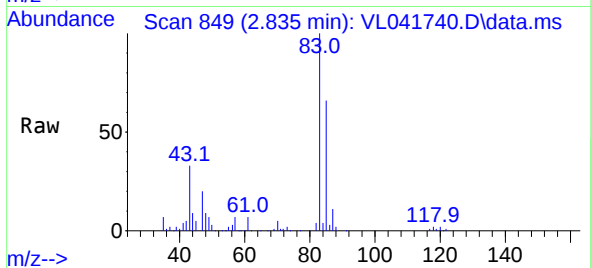
85 66.1 53.6 80.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#30

Cyclohexane

Concen: 0.722 ppbv

RT: 3.839 min Scan# 1159

Delta R.T. -0.029 min

Lab File: VL041740.D

Acq: 12 Dec 2024 08:59

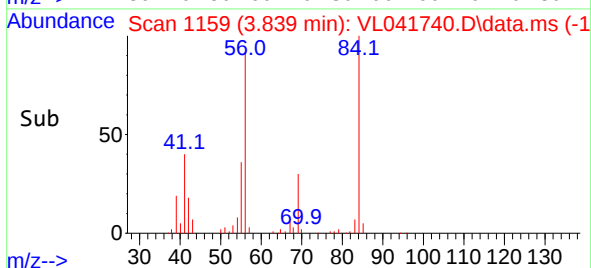
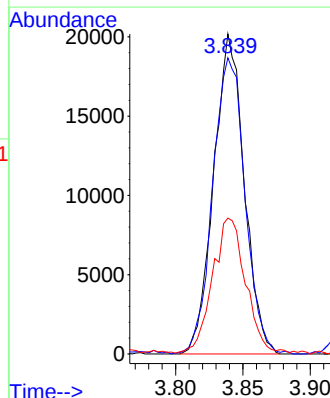
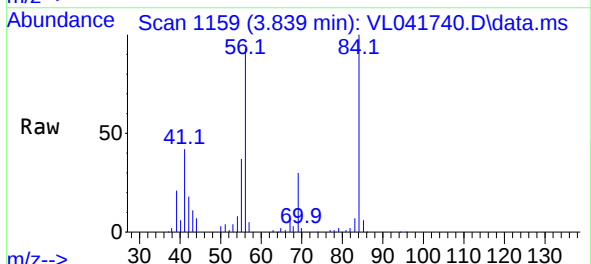
Tgt Ion: 84 Resp: 31875

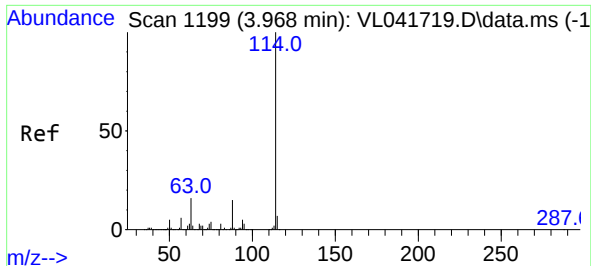
Ion Ratio Lower Upper

84 100

56 97.8 76.0 114.0

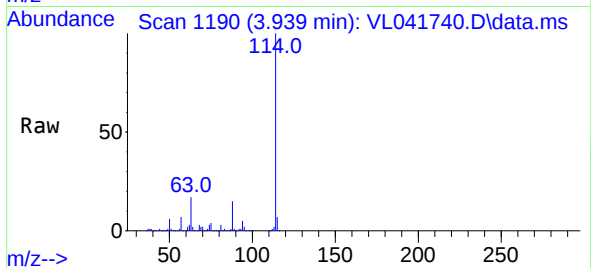
41 44.5 34.2 51.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.939 min Scan# 1199
Delta R.T. -0.029 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

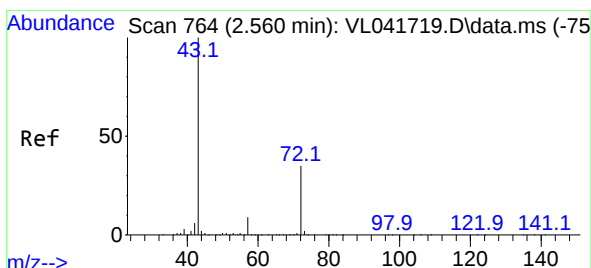
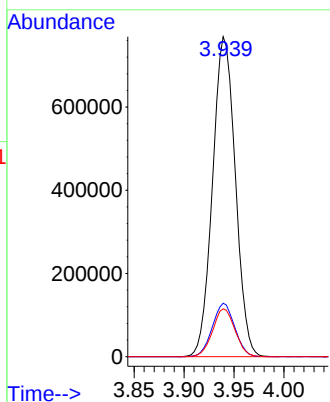
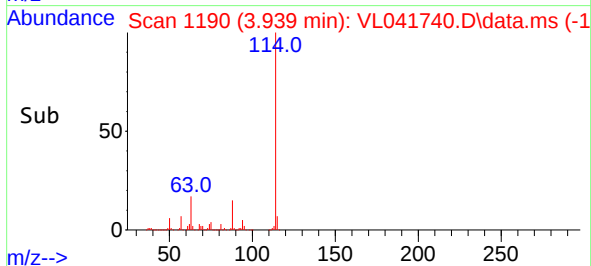
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion:114 Resp: 1219819
Ion Ratio Lower Upper
114 100
63 16.4 12.9 19.3
88 14.8 11.8 17.6

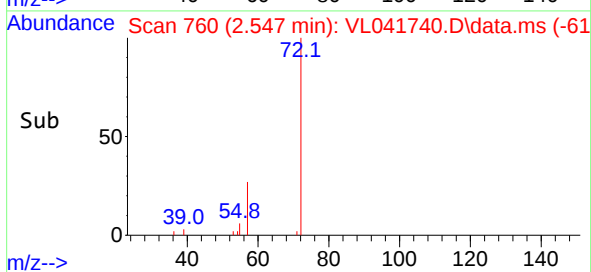
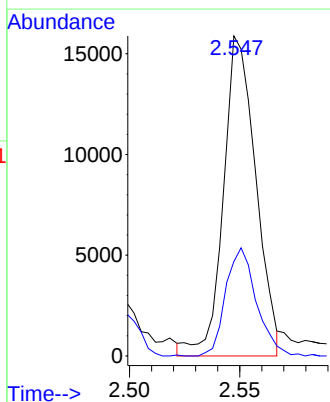
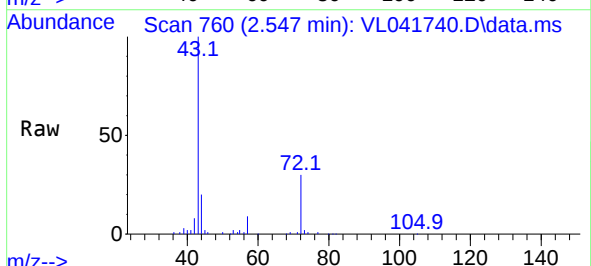
Manual Integrations
APPROVED

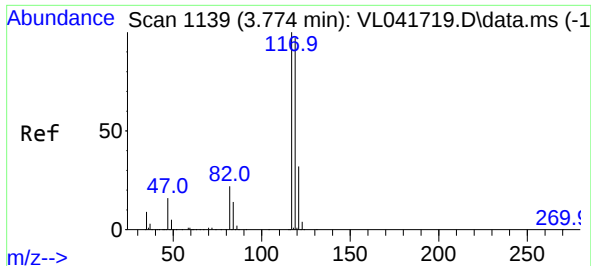
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#34
2-Butanone
Concen: 0.380 ppbv m
RT: 2.547 min Scan# 760
Delta R.T. -0.013 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

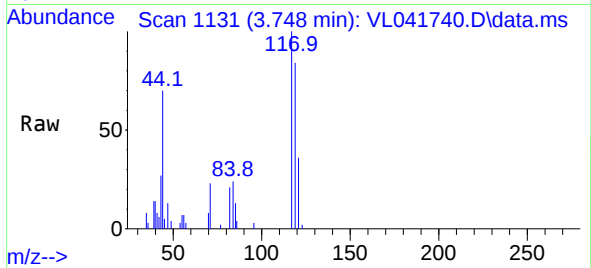
Tgt Ion: 43 Resp: 16231
Ion Ratio Lower Upper
43 100
72 8.2 28.3 42.5#





#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 3.748 min Scan# 1139
Delta R.T. -0.026 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

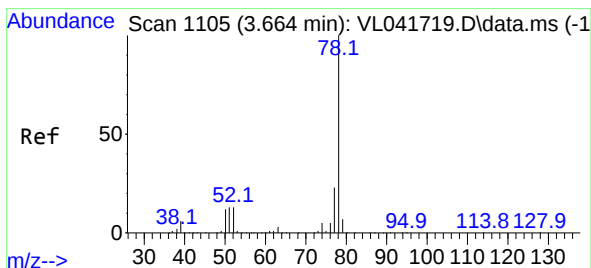
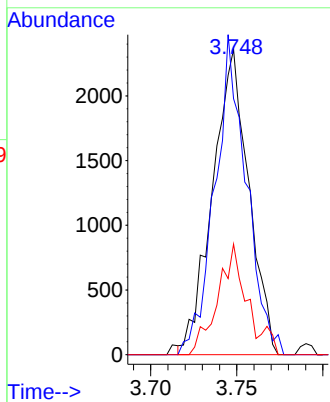
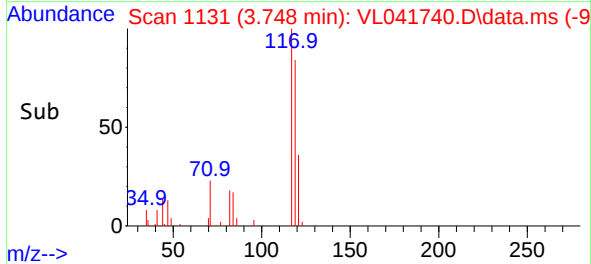
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion: 117 Resp: 3454
Ion Ratio Lower Upper
117 100
119 83.8 77.7 116.5
121 36.2 25.5 38.3

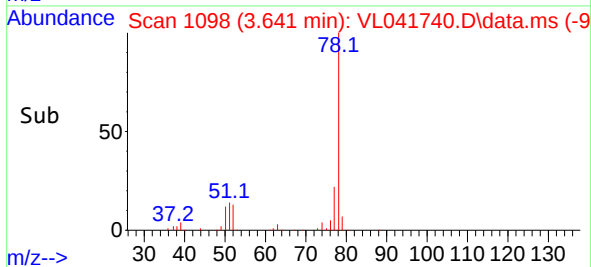
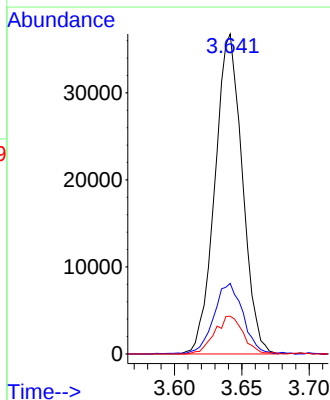
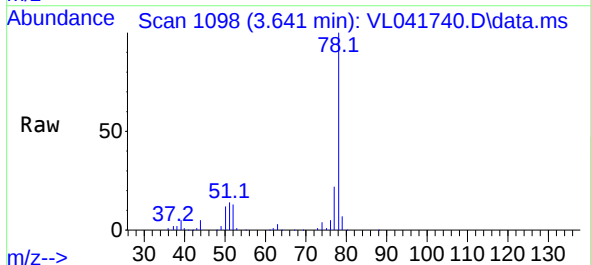
Manual Integrations
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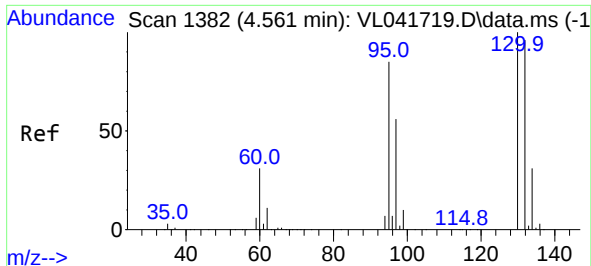
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#36
Benzene
Concen: 0.542 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

Tgt Ion: 78 Resp: 52020
Ion Ratio Lower Upper
78 100
77 21.8 18.6 27.8
50 11.8 9.5 14.3





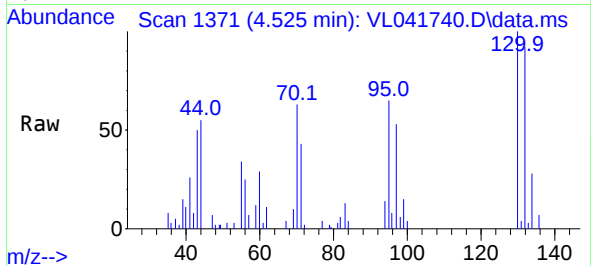
#38
 Trichloroethene
 Concen: 0.119 ppbv
 RT: 4.525 min Scan# 1101
 Delta R.T. -0.036 min
 Lab File: VL041740.D
 Acq: 12 Dec 2024 08:59

Instrument :

MSVOA_L

ClientSampleId :

IA4



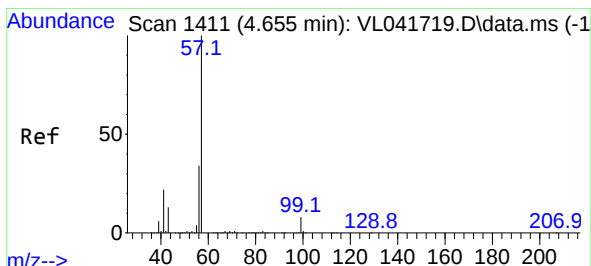
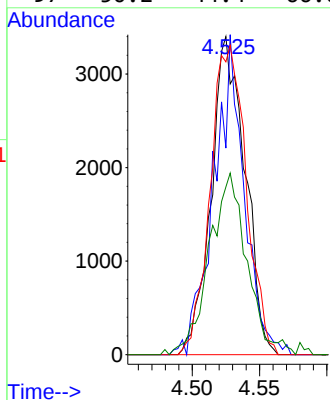
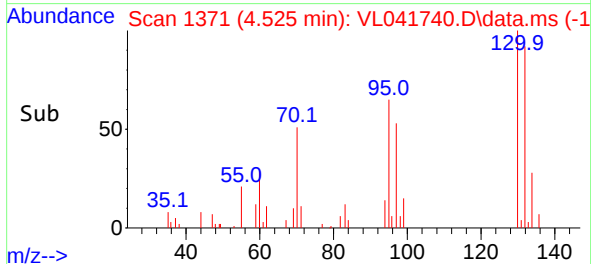
Tgt Ion:130 Resp: 5929

Ion	Ratio	Lower	Upper
130	100		
95	63.0	68.0	102.0
132	92.1	76.5	114.7
97	50.2	44.4	66.6

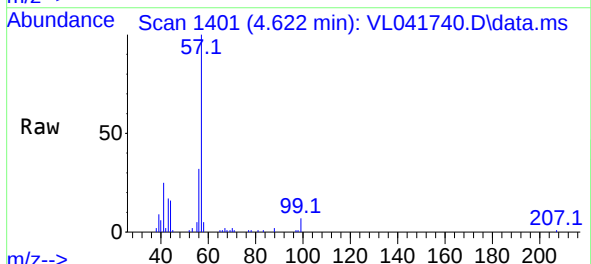
Manual Integrations

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Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

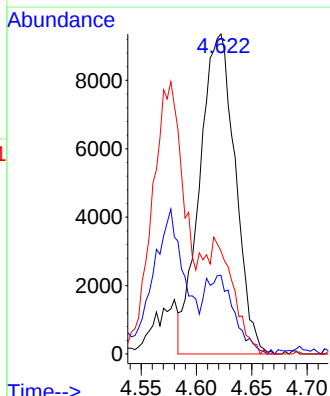
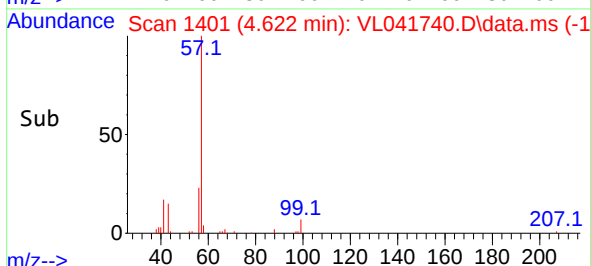


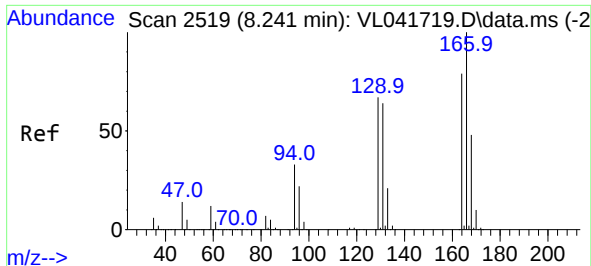
#44
 2,2,4-Trimethylpentane
 Concen: 0.156 ppbv
 RT: 4.622 min Scan# 1401
 Delta R.T. -0.033 min
 Lab File: VL041740.D
 Acq: 12 Dec 2024 08:59



Tgt Ion: 57 Resp: 20866

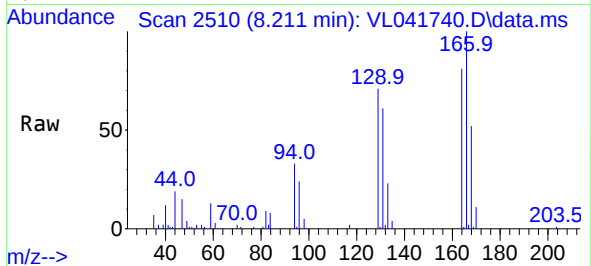
Ion	Ratio	Lower	Upper
57	100		
41	19.9	17.2	25.8
56	0.0	26.6	40.0





#52
Tetrachloroethene
Concen: 0.209 ppbv
RT: 8.211 min Scan# 2109
Delta R.T. -0.029 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

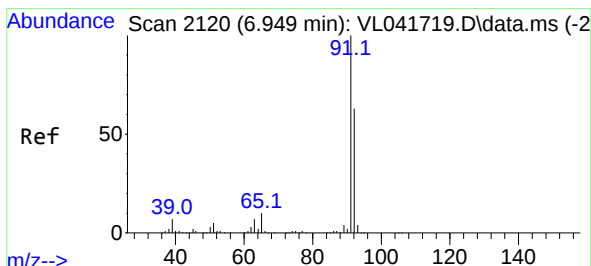
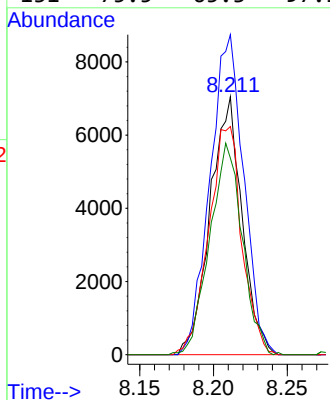
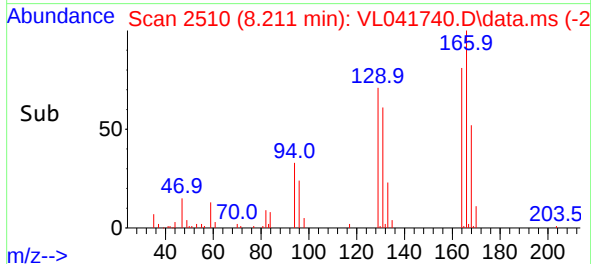
Instrument :
MSVOA_L
ClientSampleId :
IA4



Tgt Ion:164 Resp: 10600
Ion Ratio Lower Upper
164 100
166 124.0 101.4 152.0
129 88.4 67.6 101.4
131 75.5 65.3 97.9

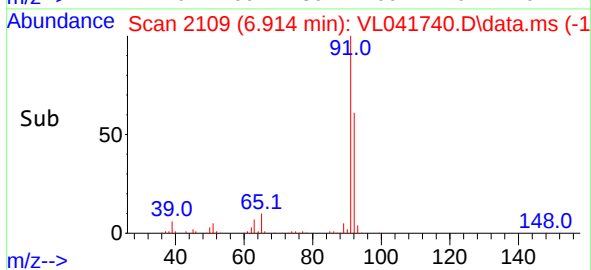
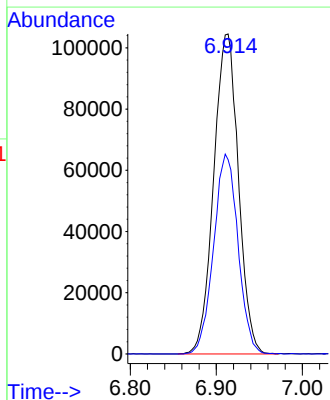
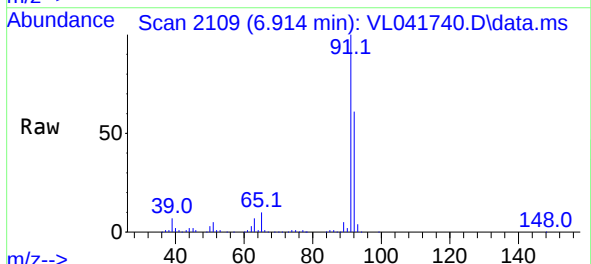
Manual Integrations
APPROVED

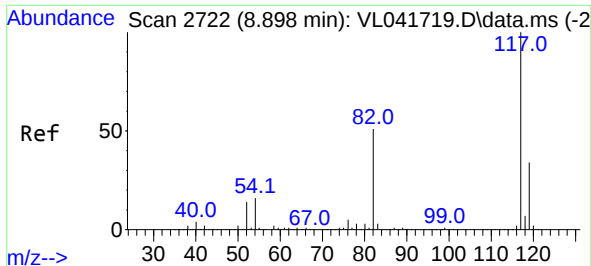
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#53
Toluene
Concen: 1.769 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. -0.036 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

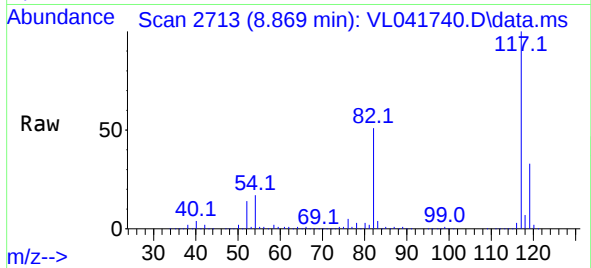
Tgt Ion: 91 Resp: 208509
Ion Ratio Lower Upper
91 100
92 61.7 49.7 74.5





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.869 min Scan# 21
Delta R.T. -0.029 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

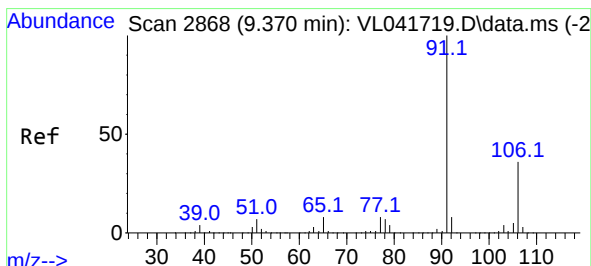
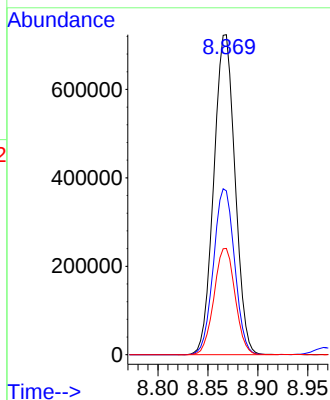
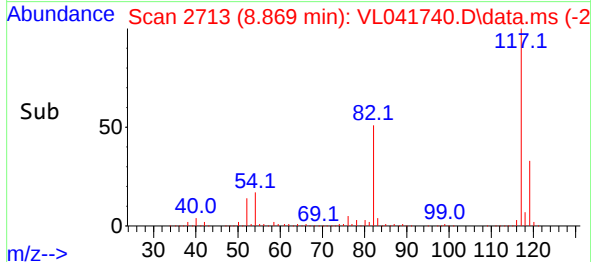
Instrument :
MSVOA_L
ClientSampleId :
IA4



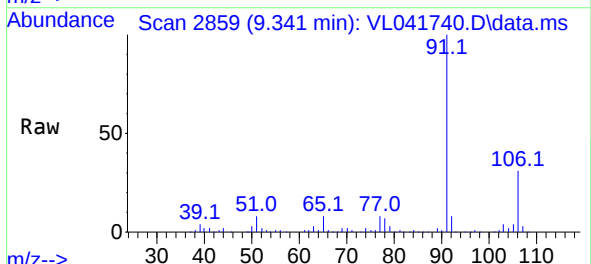
Tgt Ion:117 Resp: 107076
Ion Ratio Lower Upper
117 100
82 51.6 41.3 61.9
119 33.1 25.8 38.8

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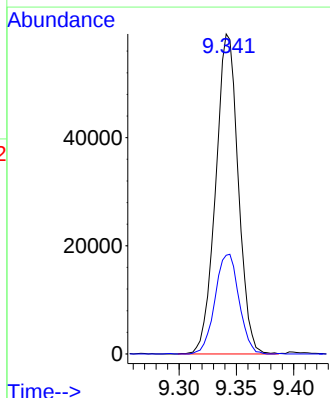
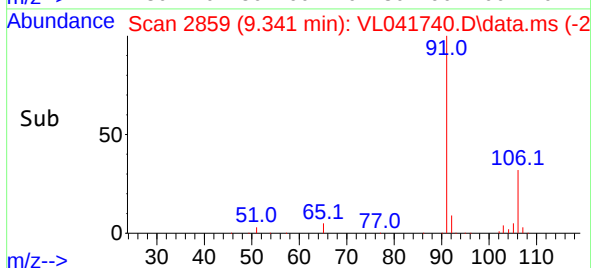
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

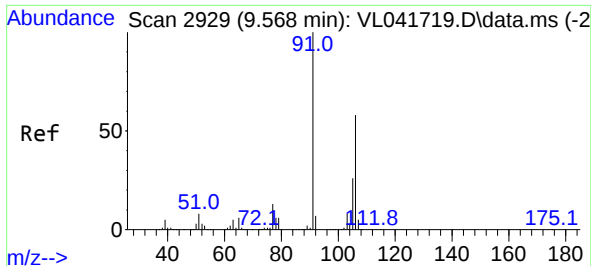


#58
Ethyl Benzene
Concen: 0.564 ppbv
RT: 9.341 min Scan# 2859
Delta R.T. -0.029 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



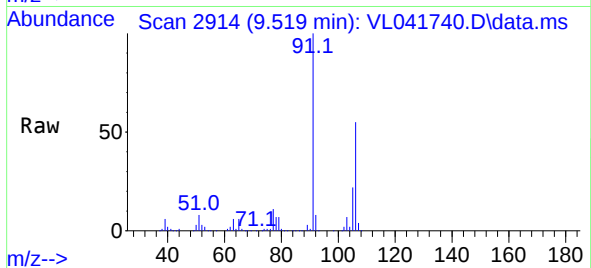
Tgt Ion: 91 Resp: 80883
Ion Ratio Lower Upper
91 100
106 30.9 28.6 43.0





#59
m/p-Xylene
Concen: 1.616 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. -0.049 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

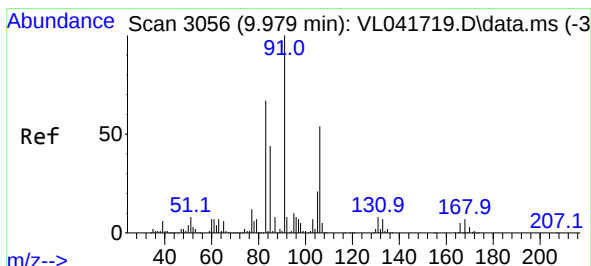
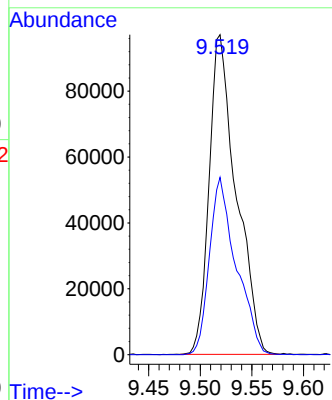
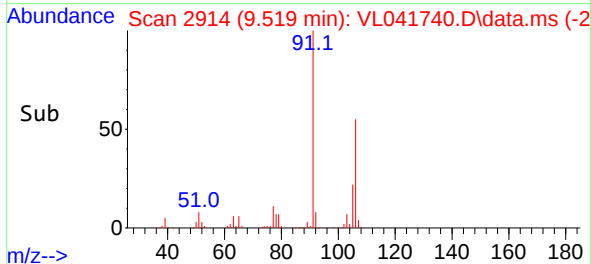
Instrument :
MSVOA_L
ClientSampleId :
IA4



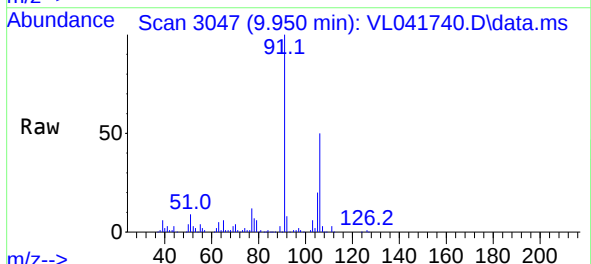
Tgt Ion: 91 Resp: 177369
Ion Ratio Lower Upper
91 100
106 54.7 45.1 67.7

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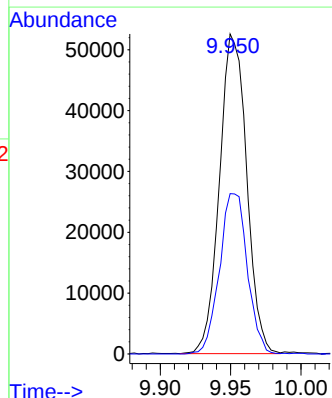
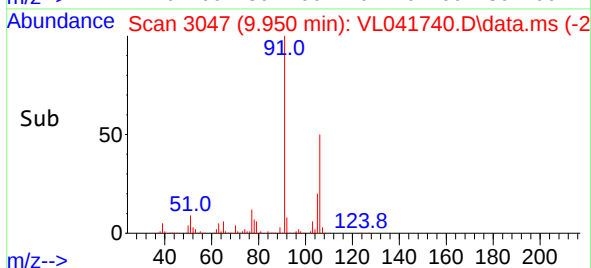
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

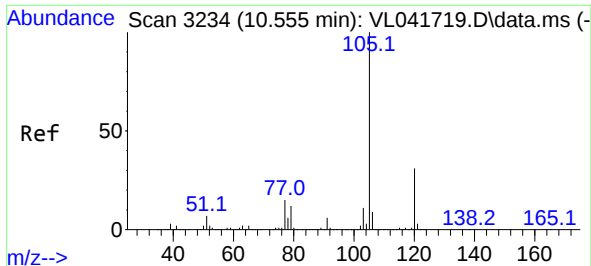


#60
o-Xylene
Concen: 0.649 ppbv
RT: 9.950 min Scan# 3047
Delta R.T. -0.029 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



Tgt Ion: 91 Resp: 70636
Ion Ratio Lower Upper
91 100
106 51.4 26.8 80.4





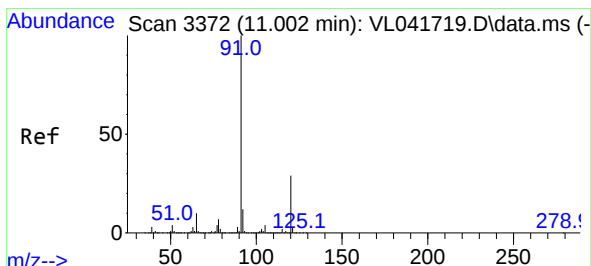
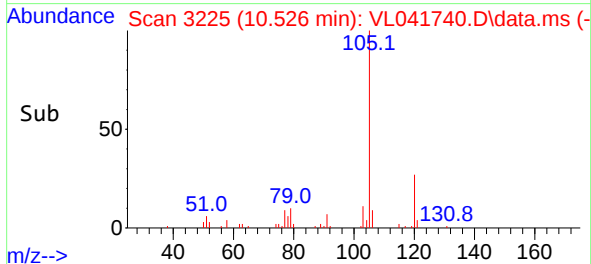
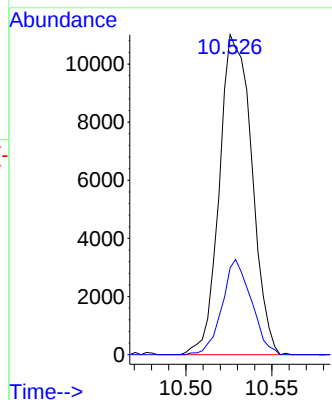
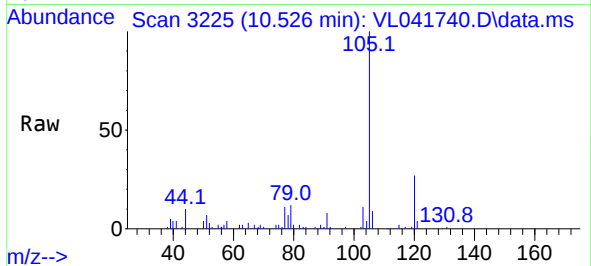
#62
Isopropylbenzene
Concen: 0.080 ppbv
RT: 10.526 min Scan# 31
Delta R.T. -0.029 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tgt Ion:105 Resp: 14408
Ion Ratio Lower Upper
105 100
120 26.8 24.3 36.5

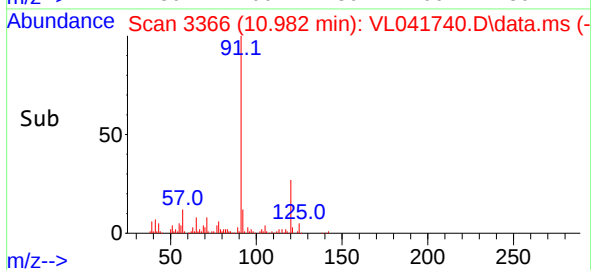
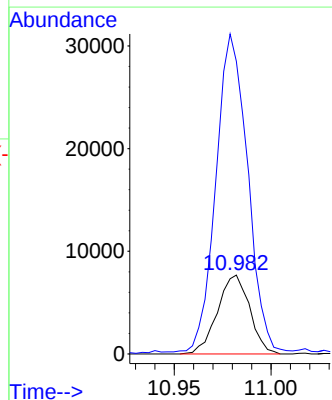
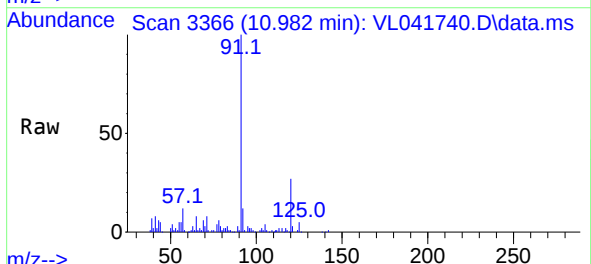
Manual Integrations
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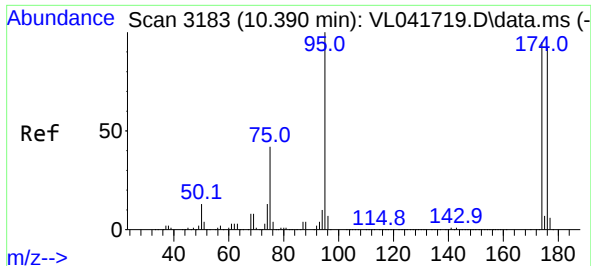
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#64
n-propylbenzene
Concen: 0.168 ppbv
RT: 10.982 min Scan# 3366
Delta R.T. -0.020 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

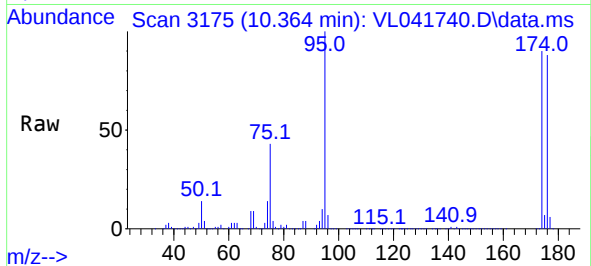
Tgt Ion:120 Resp: 8886
Ion Ratio Lower Upper
120 100
91 406.7 290.8 436.2





#68
1-Bromo-4-Fluorobenzene
Concen: 10.182 ppbv
RT: 10.364 min Scan# 3183
Delta R.T. -0.026 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

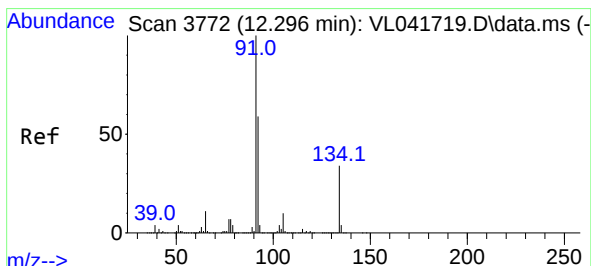
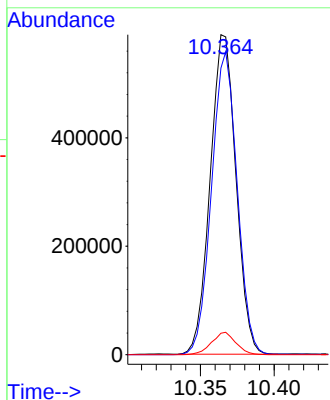
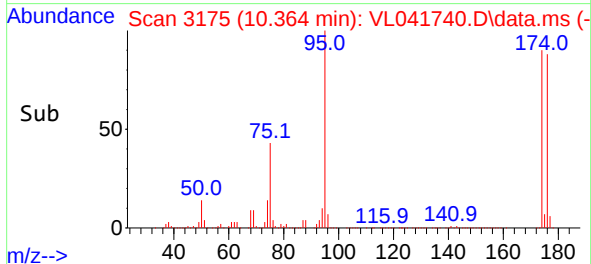
Instrument :
MSVOA_L
ClientSampleId :
IA4



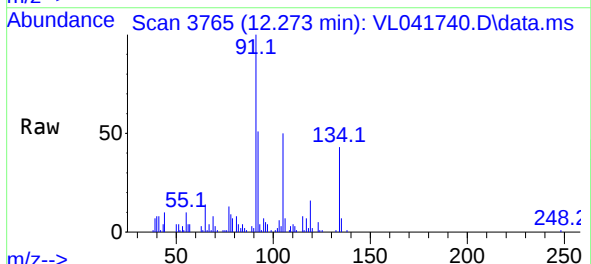
Tgt Ion: 95 Resp: 716714
Ion Ratio Lower Upper
95 100
174 94.4 76.7 115.1
175 6.6 5.4 8.2

Manual Integrations
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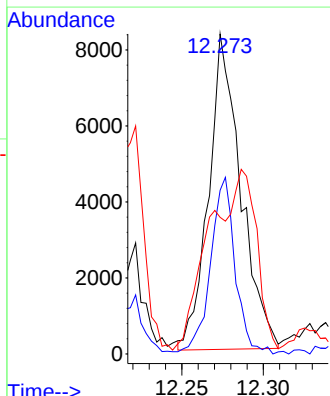
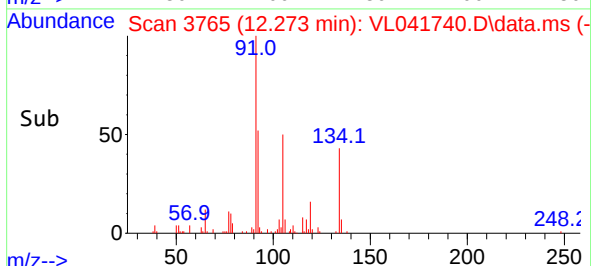
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

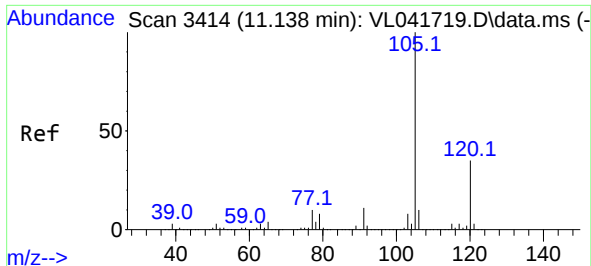


#70
n-Butylbenzene
Concen: 0.072 ppbv
RT: 12.273 min Scan# 3765
Delta R.T. -0.023 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59



Tgt Ion: 91 Resp: 11390
Ion Ratio Lower Upper
91 100
92 43.1 46.7 70.1#
134 87.0 26.2 39.4#





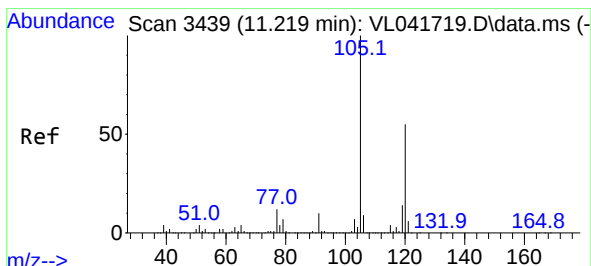
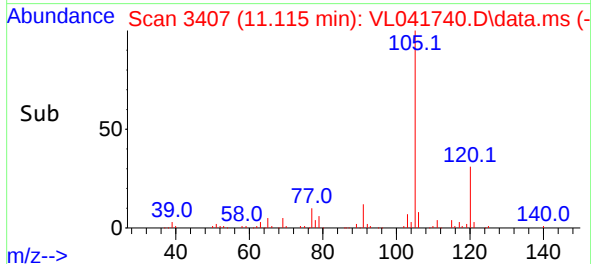
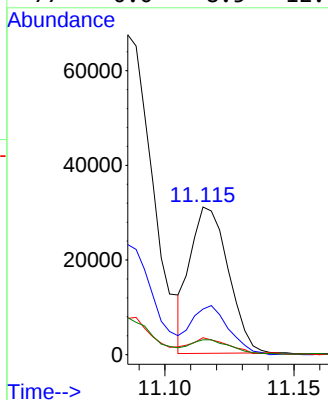
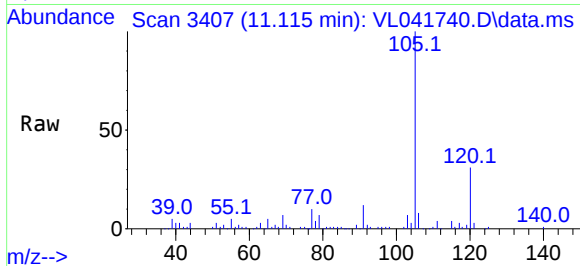
#72
4-Ethyltoluene
Concen: 0.225 ppbv
RT: 11.115 min Scan# 3414
Delta R.T. -0.023 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

Instrument :
MSVOA_L
ClientSampleId :
IA4

Tgt Ion:105	Resp:	31680
Ion Ratio	Lower	Upper
105	100	
120	0.0	28.0
91	0.0	8.8
77	0.0	8.5

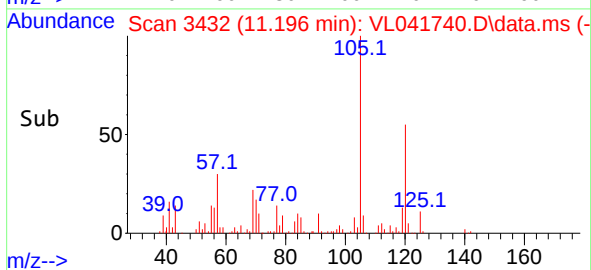
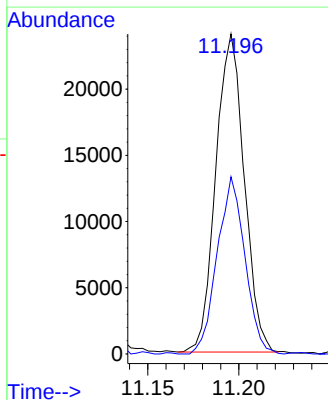
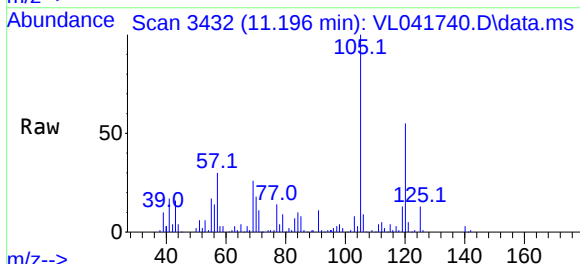
Manual Integrations
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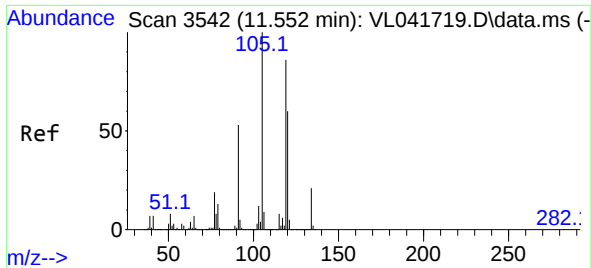
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.229 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.023 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

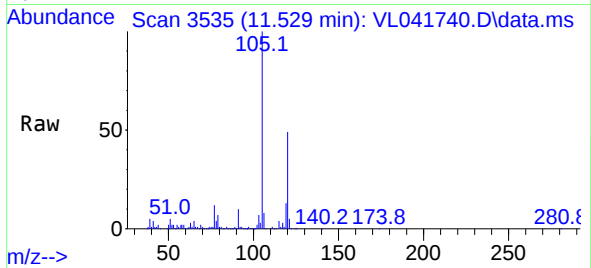
Tgt Ion:105	Resp:	26075
Ion Ratio	Lower	Upper
105	100	
120	55.7	43.6





#74
1,2,4-Trimethylbenzene
Concen: 0.725 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL041740.D
Acq: 12 Dec 2024 08:59

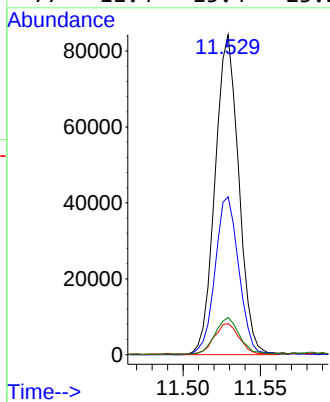
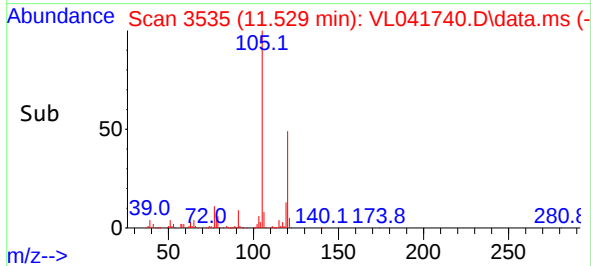
Instrument : MSVOA_L
ClientSampleId : IA4



Tgt Ion:	105	Resp:	8961
Ion Ratio	Lower	Upper	
105	100		
120	49.3	47.8	71.6
91	9.5	42.5	63.7
77	11.4	15.4	23.2

Manual Integrations
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Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



Report of Analysis

Client:	GFE LLC	Date Collected:	12/05/24
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	12/05/24
Client Sample ID:	IA4DUP	SDG No.:	P5150
Lab Sample ID:	P5150-06DUP	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
VL041744.D	1		12/12/24 11:04	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
142-82-5	Heptane	1.10	4.51		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.69	2.38		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.16	0.75	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.52	1.66		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.11	0.59		0.11	0.16	ug/m3
108-88-3	Toluene	1.70	6.41		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.22	1.49		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.54	2.35		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	1.50	6.52		0.91	4.34	ug/m3
95-47-6	o-Xylene	0.61	2.65		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.22	1.08	J	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.68	3.34		0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	3.10	10.9		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	241000			2.774		
540-36-3	1,4-Difluorobenzene	1160000			3.939		
3114-55-4	Chlorobenzene-d5	1010000			8.865		

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\VL121124\
 Data File : VL041744.D
 Acq On : 12 Dec 2024 11:04
 Operator : SY/MD
 Sample : P5150-06DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4DUP

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:54:48 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.774	49	240929	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.939	114	1155765	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.865	117	1010391	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.364 95 675151 10.165 ppbv -0.03
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

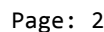
Target Compounds

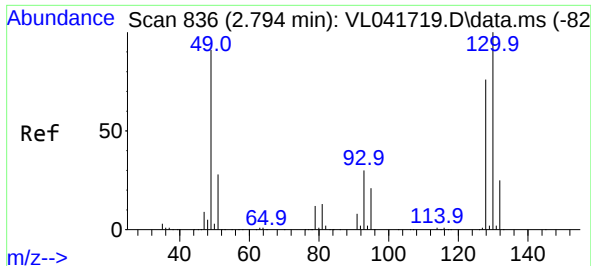
						Qvalue
2) Dichlorodifluoromethane	1.492	85	18612	0.440	ppbv	100
3) Chlorodifluoromethane	1.470	51	20344	0.620	ppbv #	84
4) Chloromethane	1.525	50	5081	0.453	ppbv	99
9) Propene	1.479	41	15632m	1.118	ppbv	
10) Heptane	4.955	43	41710	1.079	ppbv	96
11) Trichlorofluoromethane	1.871	101	10864	0.223	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.130	101	2746	0.063	ppbv	94
13) Ethanol	1.712	45	224791	194.320	ppbv	96
15) Acetone	1.826	43	842933	30.303	ppbv	99
19) Isopropyl Alcohol	1.877	45	52905	2.002	ppbv #	1
26) Hexane	2.813	57	116111	3.097	ppbv #	47
29) Chloroform	2.836	83	24020	0.418	ppbv	95
30) Cyclohexane	3.842	84	29183	0.693	ppbv	97
34) 2-Butanone	2.547	43	15883m	0.392	ppbv	
35) Carbon Tetrachloride	3.745	117	3122m	0.058	ppbv	
36) Benzene	3.641	78	47429	0.522	ppbv	98
38) Trichloroethene	4.532	130	5393m	0.114	ppbv	
44) 2,2,4-Trimethylpentane	4.616	57	20089m	0.159	ppbv	
52) Tetrachloroethene	8.205	164	10370	0.215	ppbv #	88
53) Toluene	6.914	91	190225	1.703	ppbv	98
58) Ethyl Benzene	9.341	91	72440	0.536	ppbv	98
59) m/p-Xylene	9.519	91	159461	1.539	ppbv	95
60) o-Xylene	9.953	91	62880	0.612	ppbv	97
62) Isopropylbenzene	10.529	105	12390	0.073	ppbv	99
64) n-propylbenzene	10.979	120	7776	0.156	ppbv	81
65) tert-Butylbenzene	11.875	119	9270	0.058	ppbv	94
69) p-Isopropyltoluene	11.918	119	8592	0.048	ppbv	95
73) 1,3,5-Trimethylbenzene	11.196	105	23968	0.223	ppbv	97
74) 1,2,4-Trimethylbenzene	11.529	105	79433	0.681	ppbv #	68

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

Manual Integrations

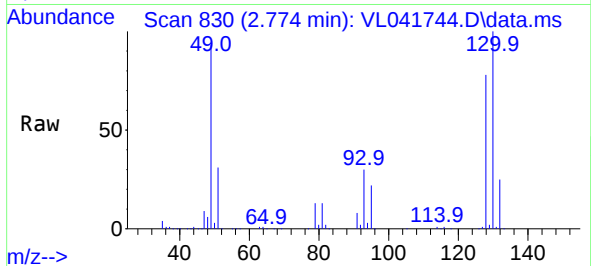
Quant Time: Dec 12 13:54:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.774 min Scan# 81
Delta R.T. -0.020 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

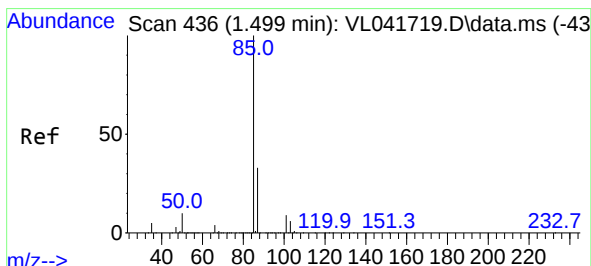
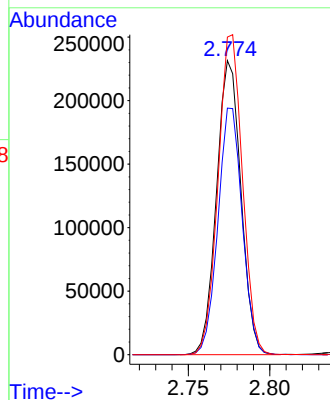
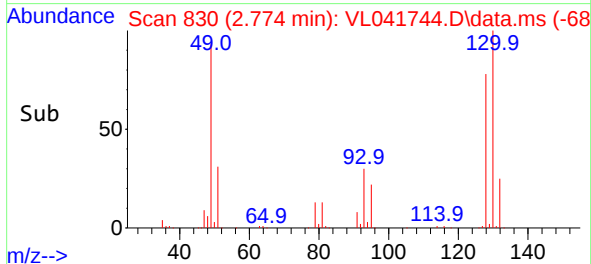
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion: 49 Resp: 240929
Ion Ratio Lower Upper
49 100
128 83.4 42.8 128.3
130 108.7 55.8 167.4

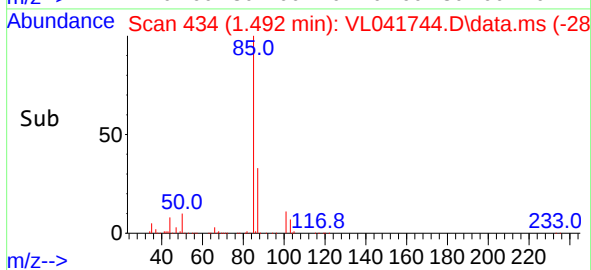
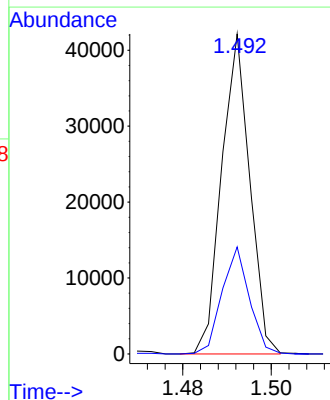
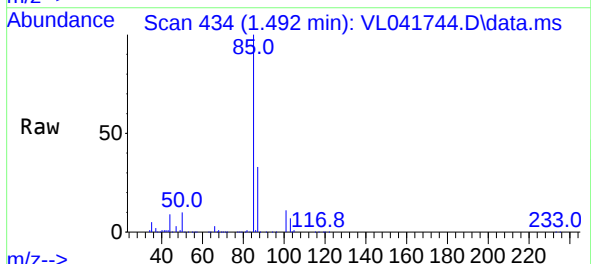
Manual Integrations
APPROVED

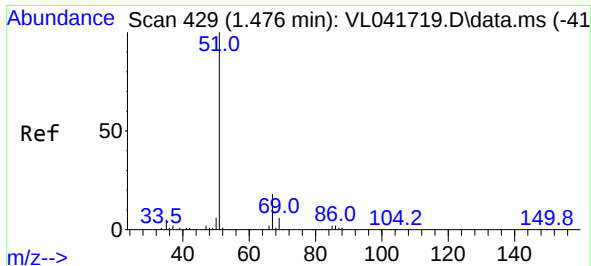
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#2
Dichlorodifluoromethane
Concen: 0.440 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.007 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

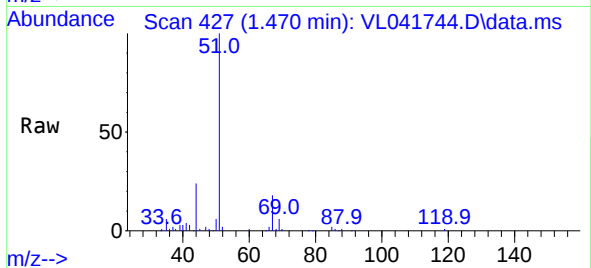
Tgt Ion: 85 Resp: 18612
Ion Ratio Lower Upper
85 100
87 33.4 26.6 39.8





#3
Chlorodifluoromethane
Concen: 0.620 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.007 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

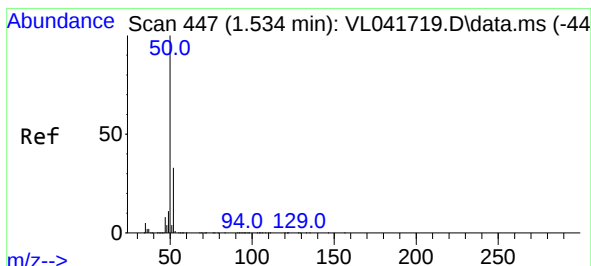
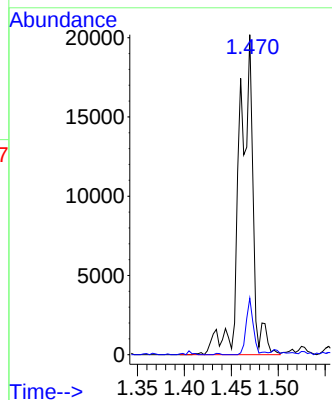
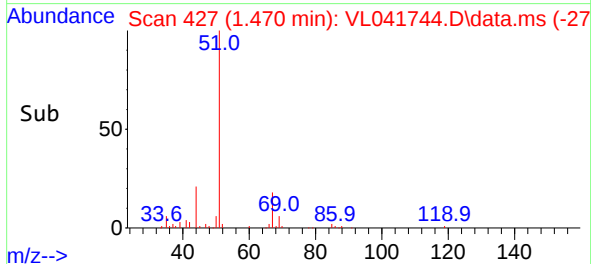
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion: 51 Resp: 20344
Ion Ratio Lower Upper
51 100
67 11.0 14.6 21.8

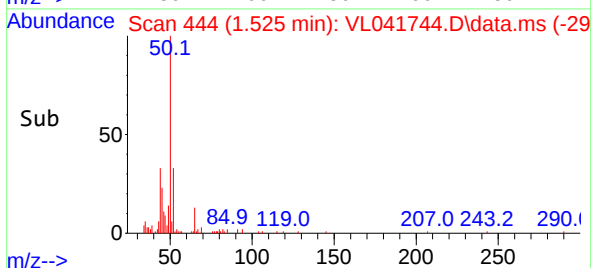
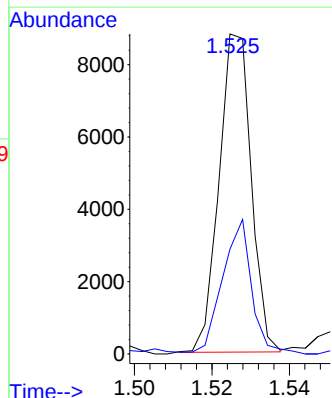
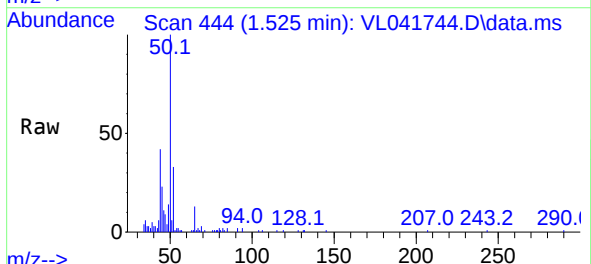
Manual Integrations
APPROVED

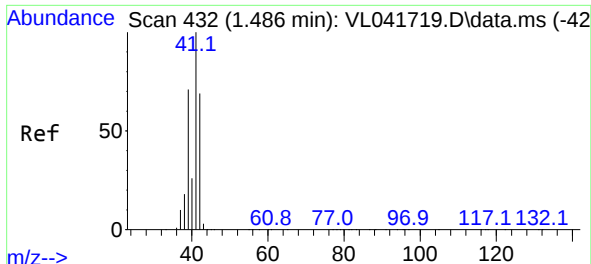
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#4
Chloromethane
Concen: 0.453 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.010 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

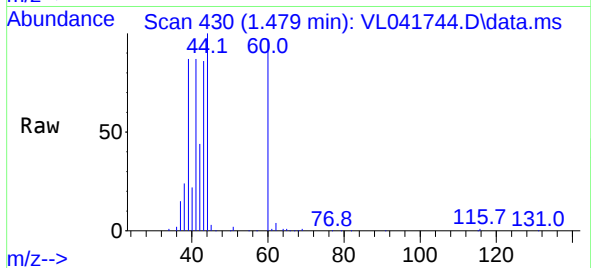
Tgt Ion: 50 Resp: 5081
Ion Ratio Lower Upper
50 100
52 32.5 26.6 40.0





#9
 Propene
 Concen: 1.118 ppbv m
 RT: 1.479 min Scan# 41
 Delta R.T. -0.007 min
 Lab File: VL041744.D
 Acq: 12 Dec 2024 11:04

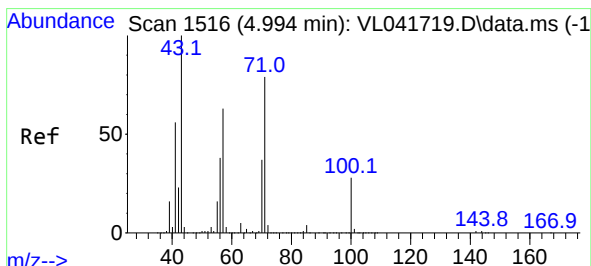
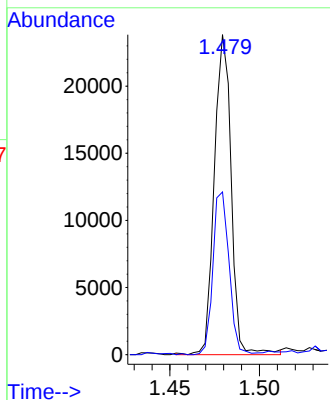
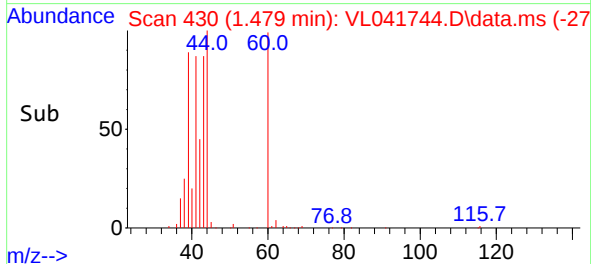
Instrument :
 MSVOA_L
 ClientSampleId :
 IA4DUP



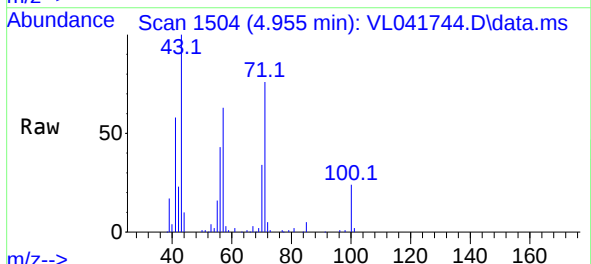
Tgt Ion: 41 Resp: 1563
 Ion Ratio Lower Upper
 41 100
 42 66.6 56.2 84.4

Manual Integrations
 APPROVED

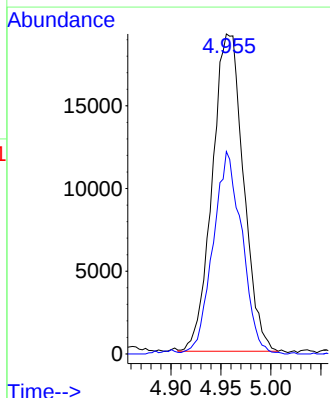
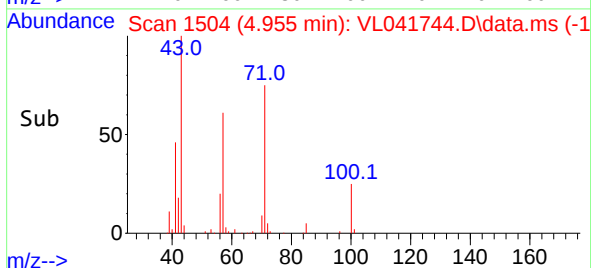
Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

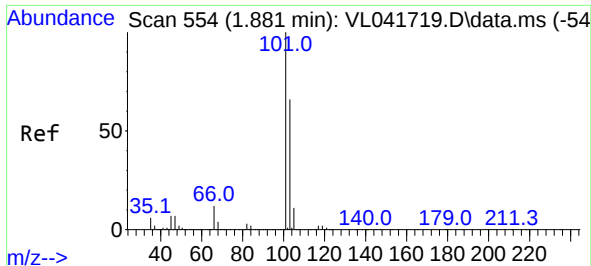


#10
 Heptane
 Concen: 1.079 ppbv
 RT: 4.955 min Scan# 1504
 Delta R.T. -0.039 min
 Lab File: VL041744.D
 Acq: 12 Dec 2024 11:04



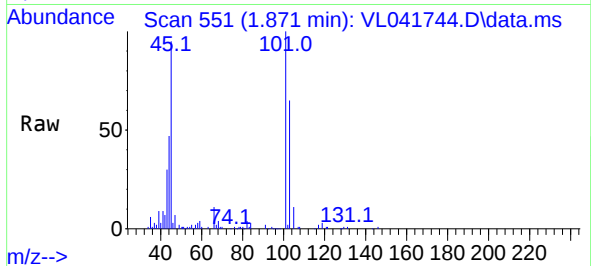
Tgt Ion: 43 Resp: 41710
 Ion Ratio Lower Upper
 43 100
 57 59.9 50.5 75.7





#11
Trichlorofluoromethane
Concen: 0.223 ppbv
RT: 1.871 min Scan# 511
Delta R.T. -0.010 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

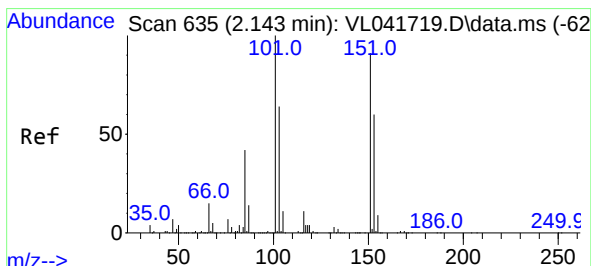
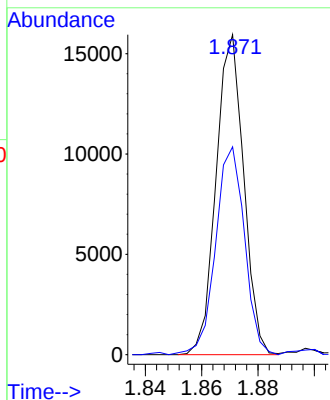
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



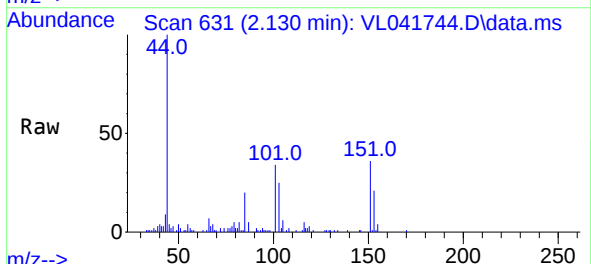
Tgt Ion:101 Resp: 10864
Ion Ratio Lower Upper
101 100
103 65.0 52.7 79.1

Manual Integrations
APPROVED

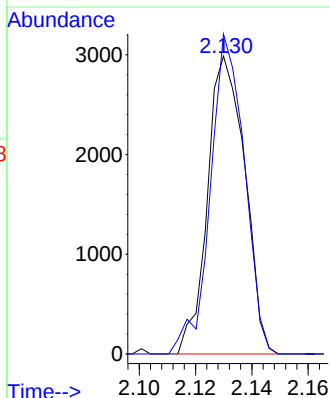
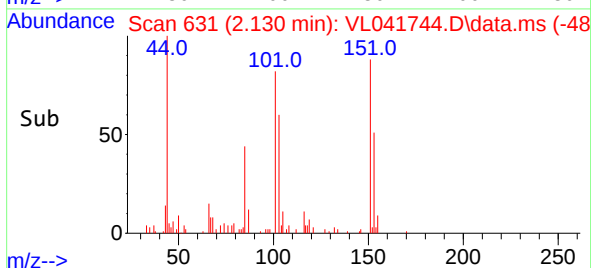
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

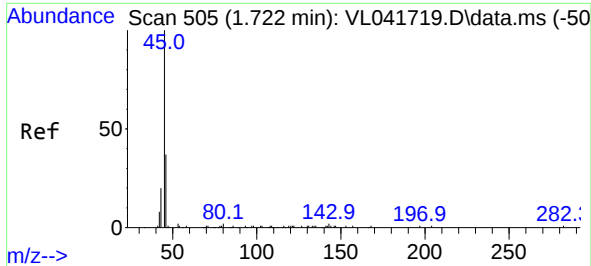


#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.063 ppbv
RT: 2.130 min Scan# 631
Delta R.T. -0.013 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04



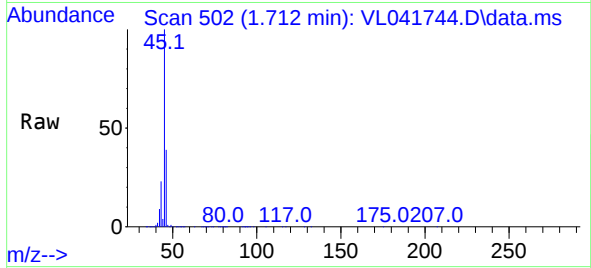
Tgt Ion:101 Resp: 2746
Ion Ratio Lower Upper
101 100
151 98.4 74.4 111.6





#13
Ethanol
Concen: 194.320 ppbv
RT: 1.712 min Scan# 501
Delta R.T. -0.010 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

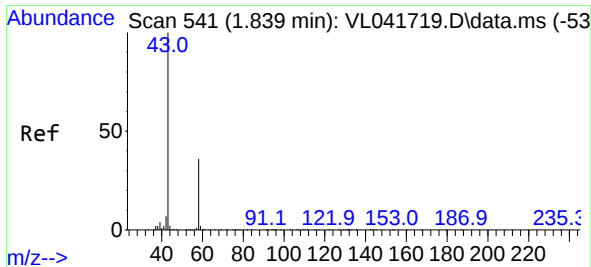
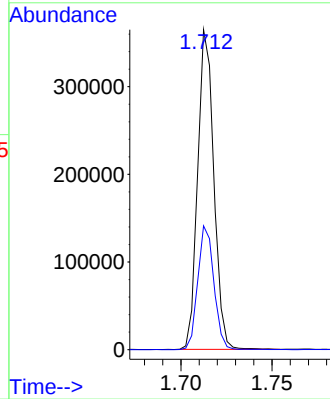
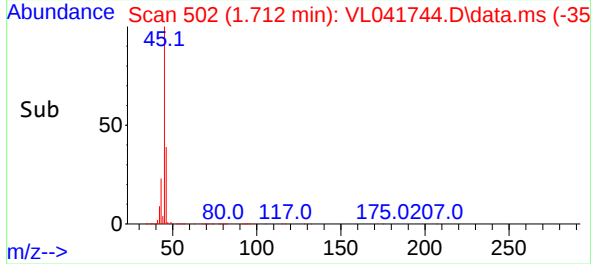
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



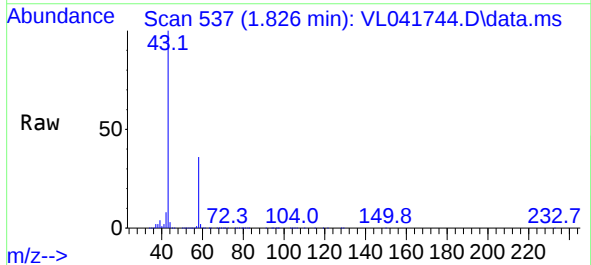
Tgt Ion: 45 Resp: 224793
Ion Ratio Lower Upper
45 100
46 39.0 16.6 66.6

Manual Integrations
APPROVED

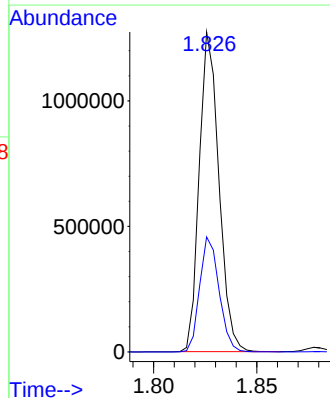
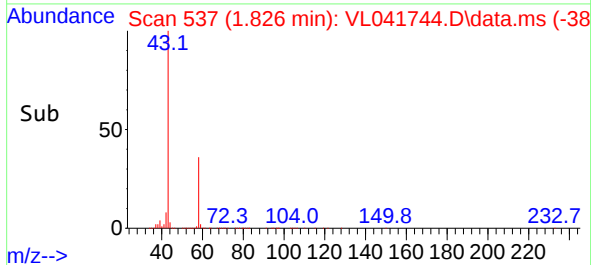
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

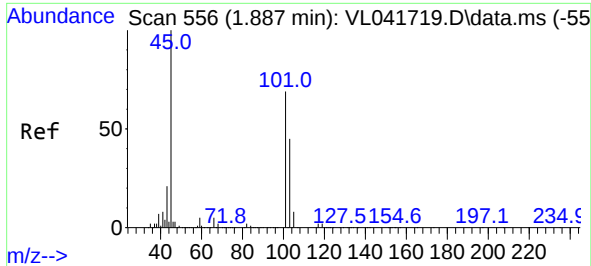


#15
Acetone
Concen: 30.303 ppbv
RT: 1.826 min Scan# 537
Delta R.T. -0.013 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04



Tgt Ion: 43 Resp: 842933
Ion Ratio Lower Upper
43 100
58 35.5 28.9 43.3





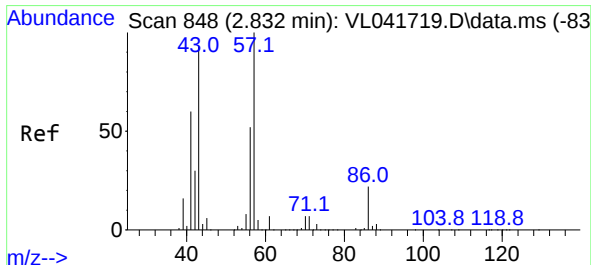
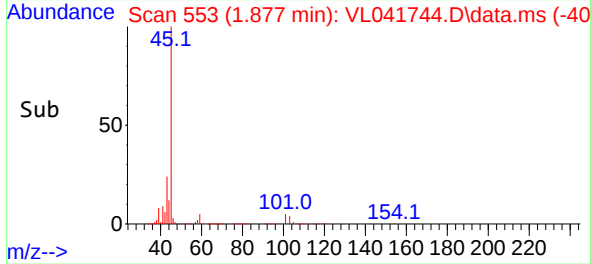
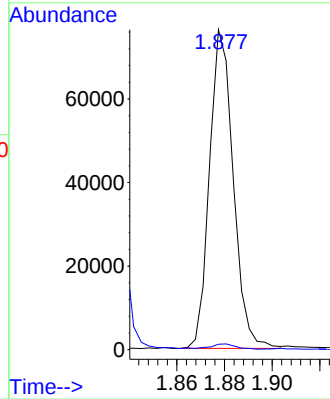
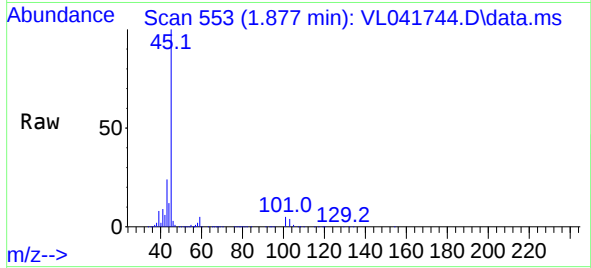
#19
Isopropyl Alcohol
Concen: 2.002 ppbv
RT: 1.877 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

Tgt Ion: 45 Resp: 5290
Ion Ratio Lower Upper
45 100
58 565.9 40.6 61.0

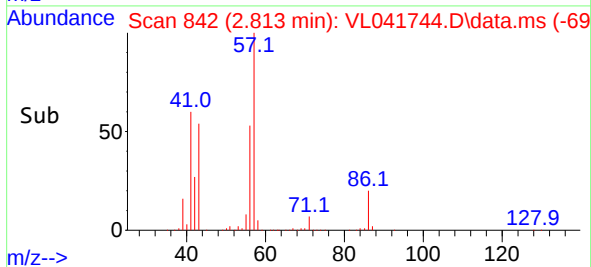
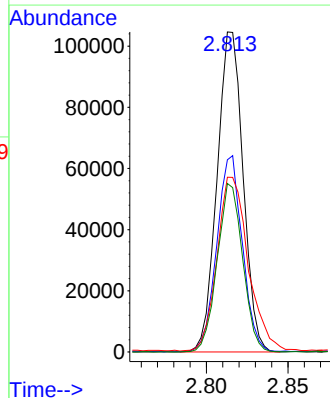
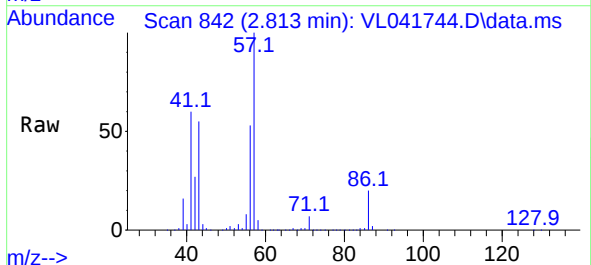
Manual Integrations
APPROVED

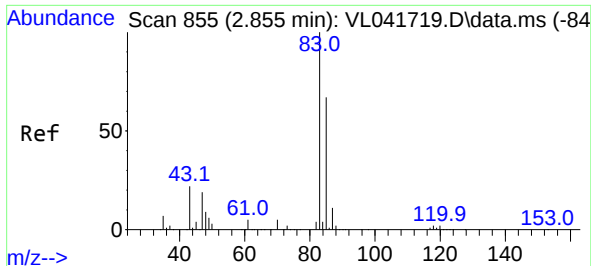
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#26
Hexane
Concen: 3.097 ppbv
RT: 2.813 min Scan# 842
Delta R.T. -0.020 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

Tgt Ion: 57 Resp: 116111
Ion Ratio Lower Upper
57 100
41 60.2 49.5 74.3
43 65.3 150.6 225.8#
56 51.4 41.6 62.4





#29

Chloroform

Concen: 0.418 ppbv

RT: 2.836 min Scan# 84

Delta R.T. -0.020 min

Lab File: VL041744.D

Acq: 12 Dec 2024 11:04

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion: 83 Resp: 24020

Ion Ratio Lower Upper

83 100

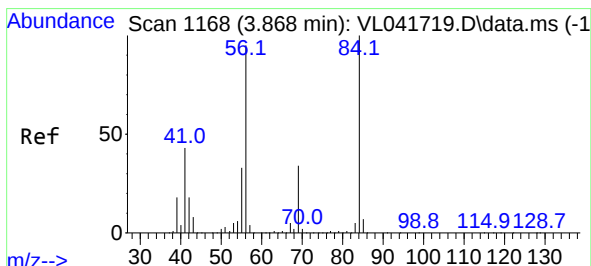
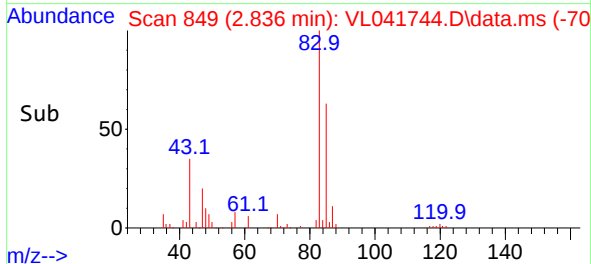
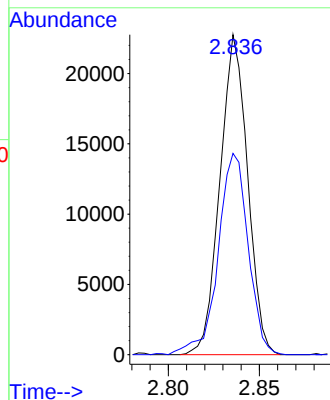
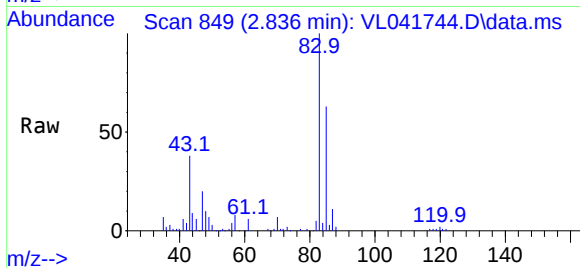
85 62.6 53.6 80.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#30

Cyclohexane

Concen: 0.693 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. -0.026 min

Lab File: VL041744.D

Acq: 12 Dec 2024 11:04

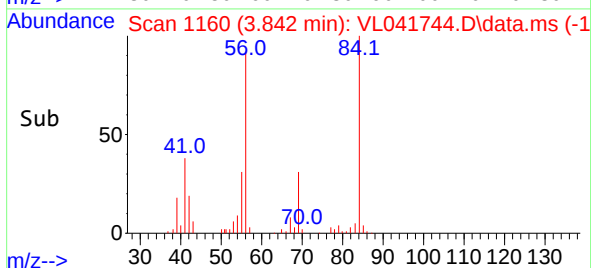
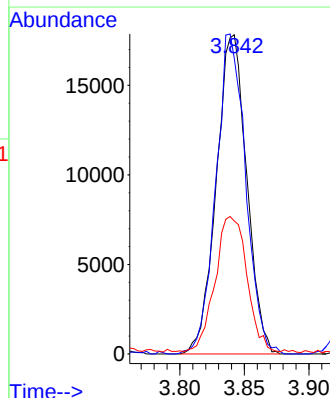
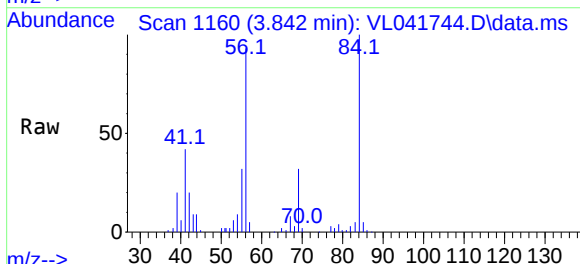
Tgt Ion: 84 Resp: 29183

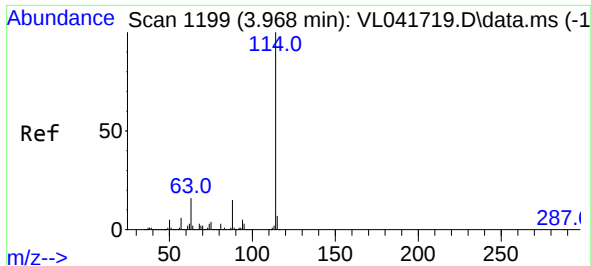
Ion Ratio Lower Upper

84 100

56 97.9 76.0 114.0

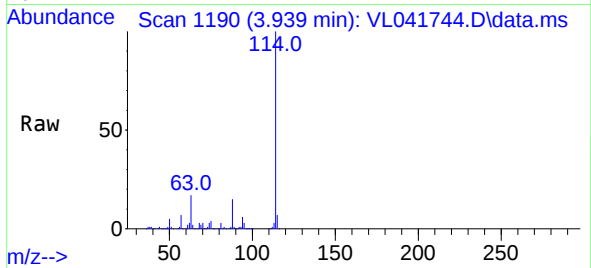
41 43.7 34.2 51.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.939 min Scan# 1199
Delta R.T. -0.029 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

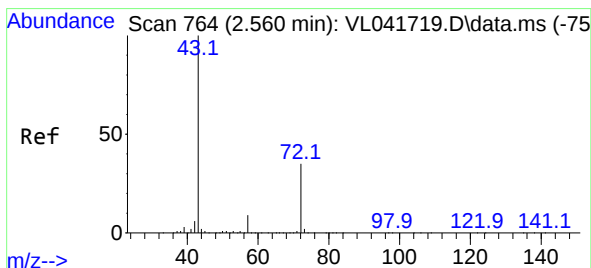
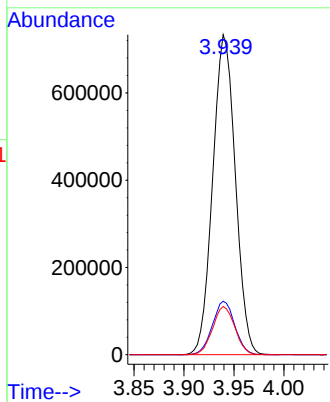
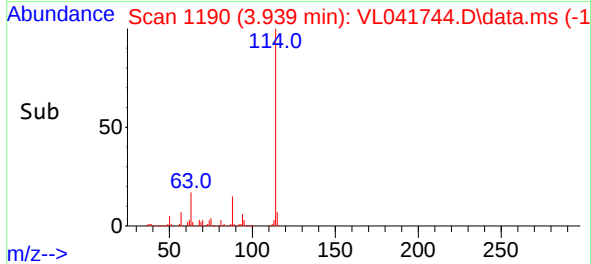
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion:114 Resp: 115576
Ion Ratio Lower Upper
114 100
63 16.5 12.9 19.3
88 14.8 11.8 17.6

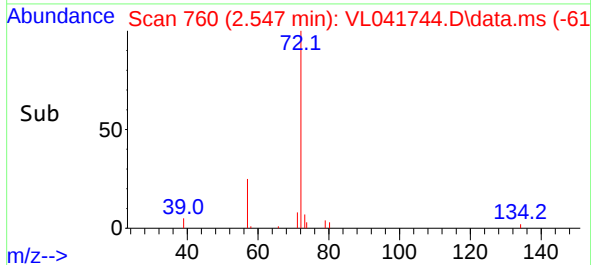
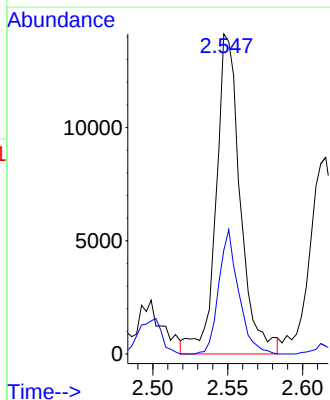
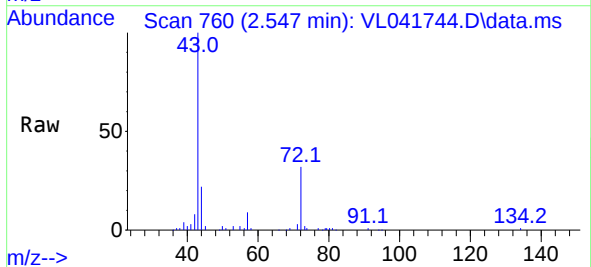
Manual Integrations
APPROVED

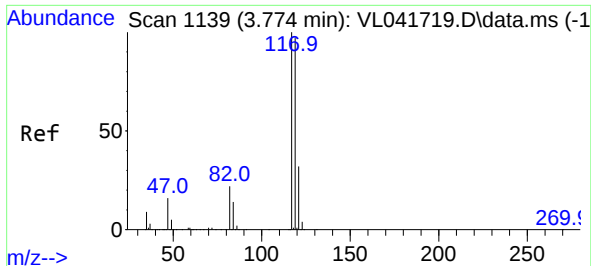
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#34
2-Butanone
Concen: 0.392 ppbv m
RT: 2.547 min Scan# 760
Delta R.T. -0.013 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

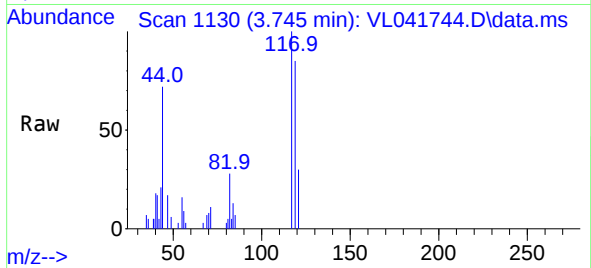
Tgt Ion: 43 Resp: 15883
Ion Ratio Lower Upper
43 100
72 7.9 28.3 42.5#





#35
Carbon Tetrachloride
Concen: 0.058 ppbv m
RT: 3.745 min Scan# 1139
Delta R.T. -0.029 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

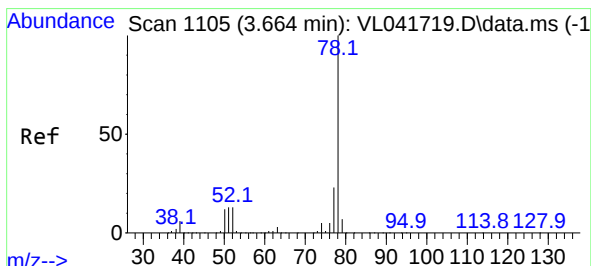
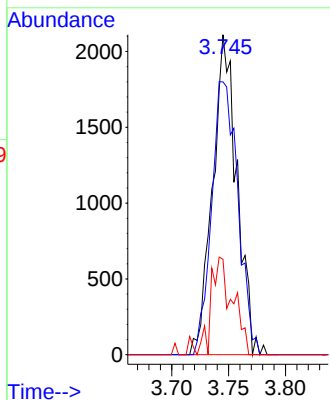
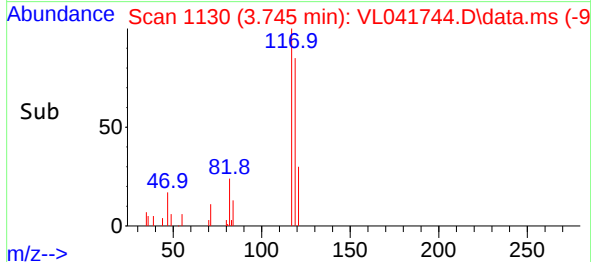
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion:117 Resp: 312
Ion Ratio Lower Upper
117 100
119 85.3 77.7 116.5
121 29.8 25.5 38.3

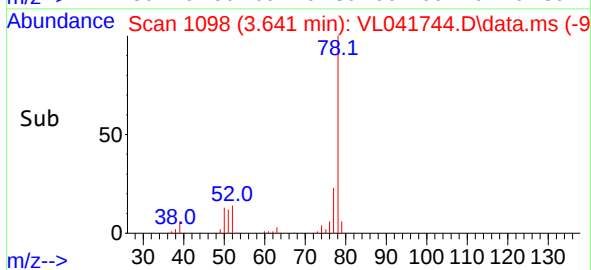
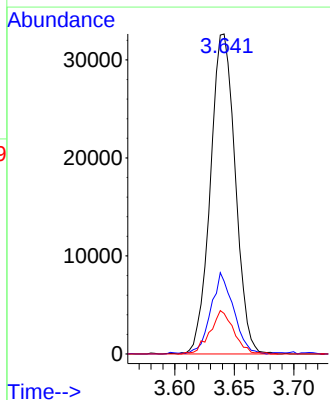
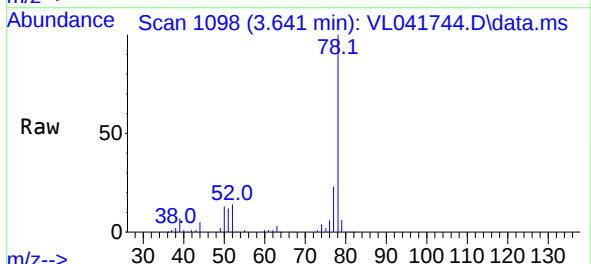
Manual Integrations
APPROVED

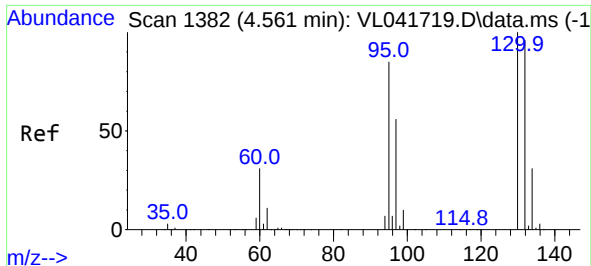
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#36
Benzene
Concen: 0.522 ppbv
RT: 3.641 min Scan# 1098
Delta R.T. -0.023 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

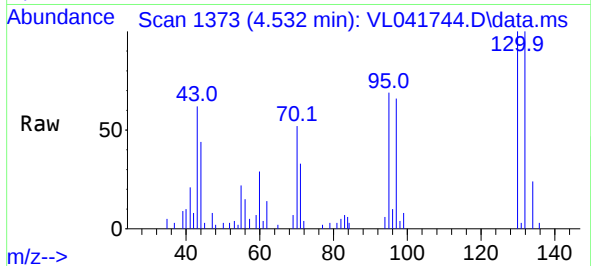
Tgt Ion: 78 Resp: 47429
Ion Ratio Lower Upper
78 100
77 22.5 18.6 27.8
50 12.7 9.5 14.3





#38
Trichloroethene
Concen: 0.114 ppbv m
RT: 4.532 min Scan# 1390
Delta R.T. -0.029 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

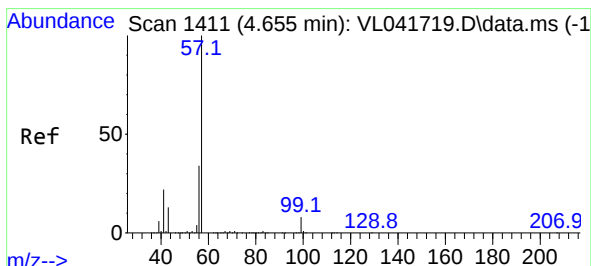
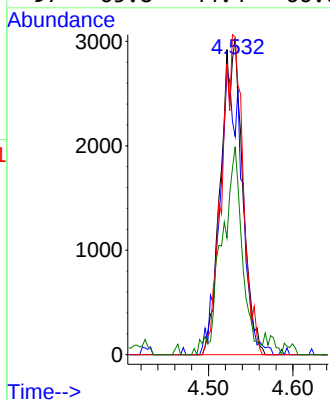
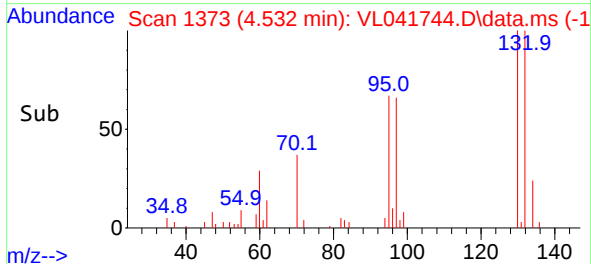
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



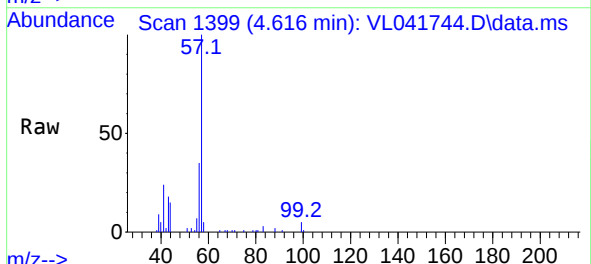
Tgt Ion:130 Resp: 539
Ion Ratio Lower Upper
130 100
95 69.0 68.0 102.0
132 100.4 76.5 114.7
97 65.8 44.4 66.6

Manual Integrations
APPROVED

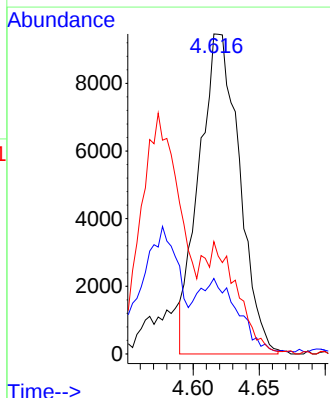
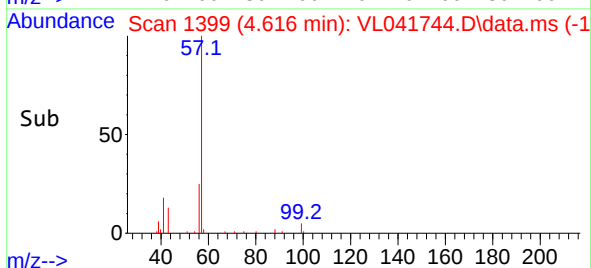
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

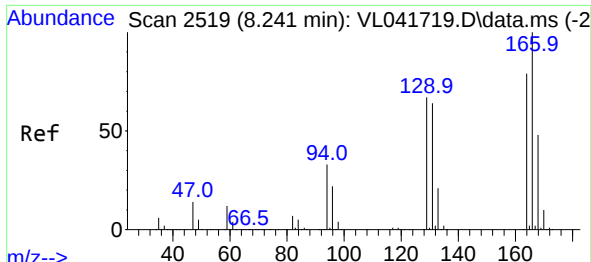


#44
2,2,4-Trimethylpentane
Concen: 0.159 ppbv m
RT: 4.616 min Scan# 1399
Delta R.T. -0.039 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04



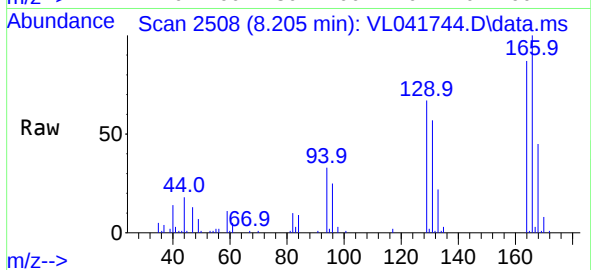
Tgt Ion: 57 Resp: 20089
Ion Ratio Lower Upper
57 100
41 60.7 17.2 25.8#
56 105.5 26.6 40.0#





#52
Tetrachloroethene
Concen: 0.215 ppbv
RT: 8.205 min Scan# 2109
Delta R.T. -0.036 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

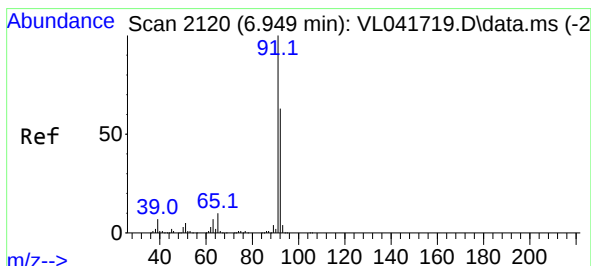
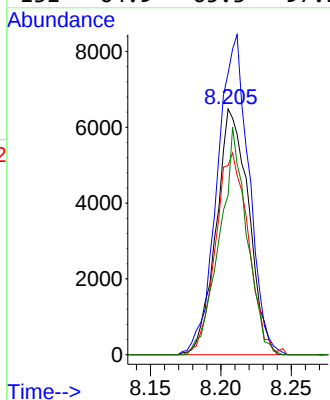
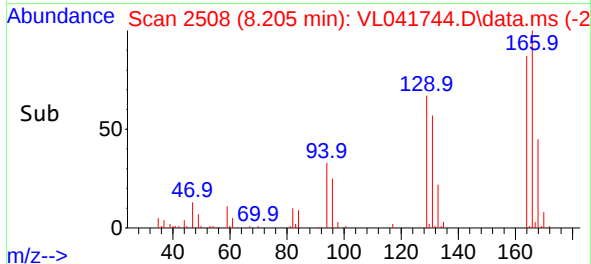
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion:164 Resp: 10370
Ion Ratio Lower Upper
164 100
166 114.6 101.4 152.0
129 77.1 67.6 101.4
131 64.9 65.3 97.9#

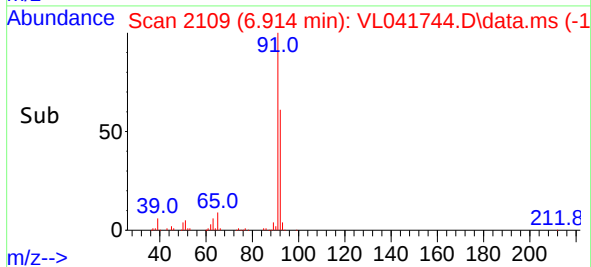
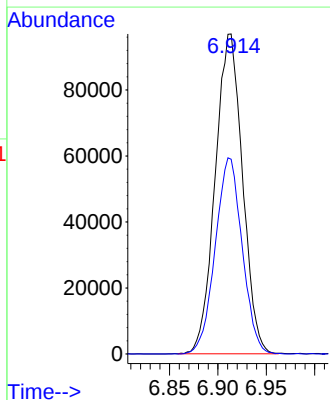
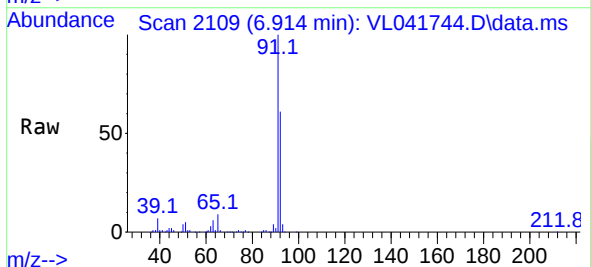
Manual Integrations
APPROVED

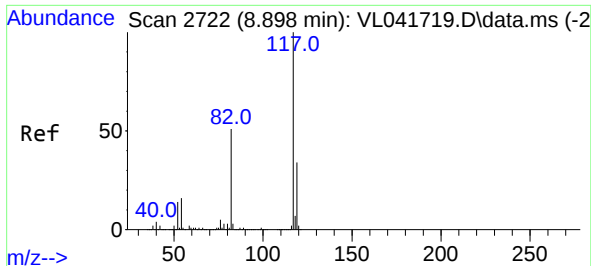
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#53
Toluene
Concen: 1.703 ppbv
RT: 6.914 min Scan# 2109
Delta R.T. -0.036 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

Tgt Ion: 91 Resp: 190225
Ion Ratio Lower Upper
91 100
92 60.5 49.7 74.5





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.865 min Scan# 21

Delta R.T. -0.032 min

Lab File: VL041744.D

Acq: 12 Dec 2024 11:04

Instrument :

MSVOA_L

ClientSampleId :

IA4DUP

Tgt Ion:117 Resp: 101039

Ion Ratio Lower Upper

117 100

82 51.6 41.3 61.9

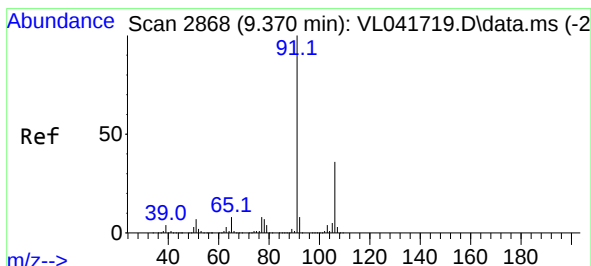
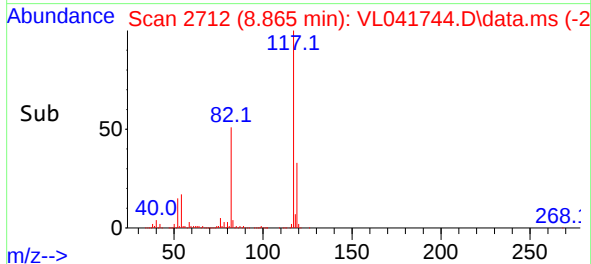
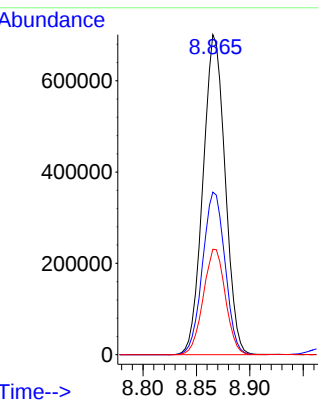
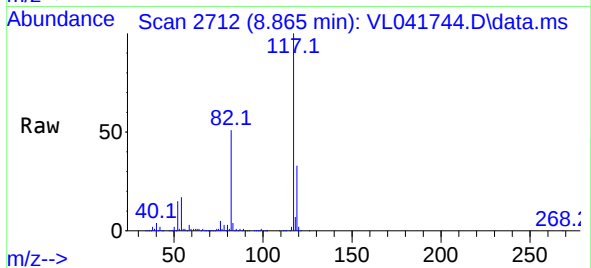
119 33.1 25.8 38.8

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024

Supervised By :Semsettin Yesilyurt 12/13/2024



#58

Ethyl Benzene

Concen: 0.536 ppbv

RT: 9.341 min Scan# 2859

Delta R.T. -0.029 min

Lab File: VL041744.D

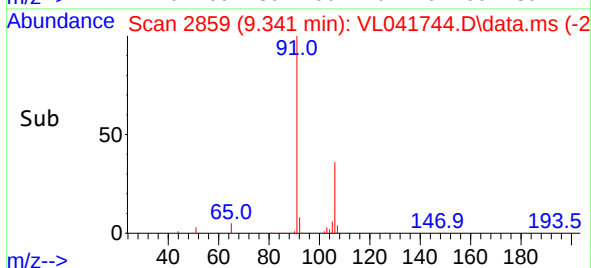
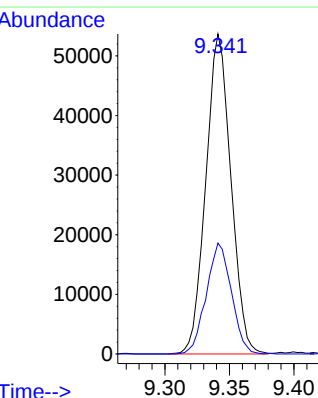
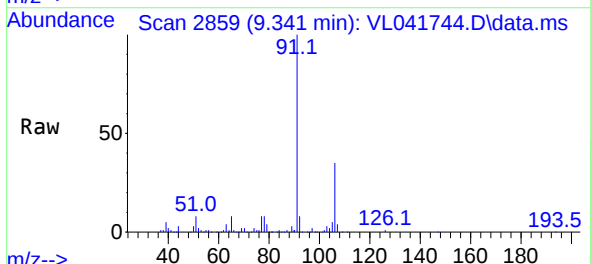
Acq: 12 Dec 2024 11:04

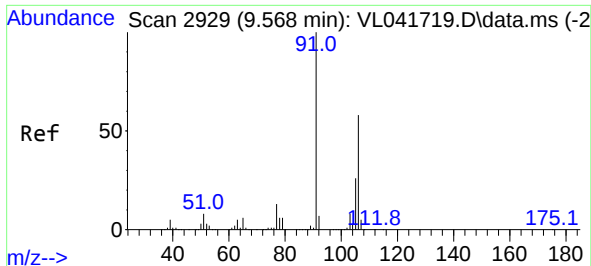
Tgt Ion: 91 Resp: 72440

Ion Ratio Lower Upper

91 100

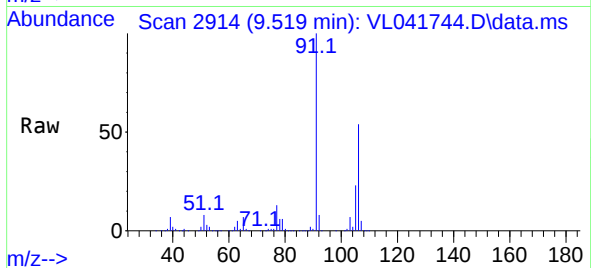
106 34.7 28.6 43.0





#59
m/p-Xylene
Concen: 1.539 ppbv
RT: 9.519 min Scan# 2914
Delta R.T. -0.049 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

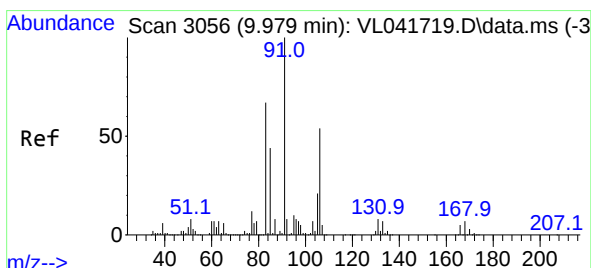
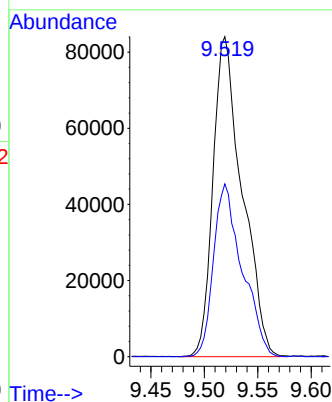
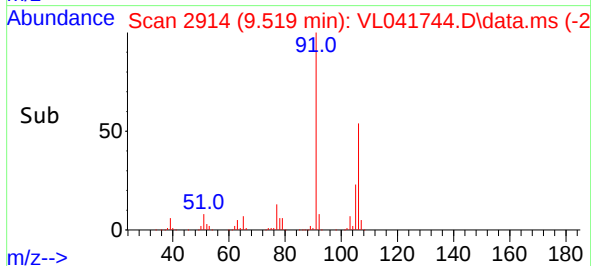
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



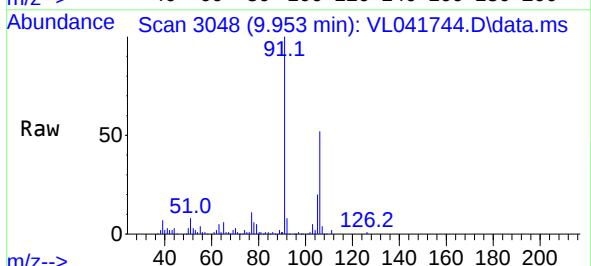
Tgt Ion: 91 Resp: 15946
Ion Ratio Lower Upper
91 100
106 53.1 45.1 67.7

Manual Integrations
APPROVED

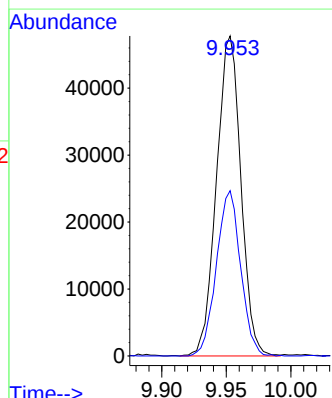
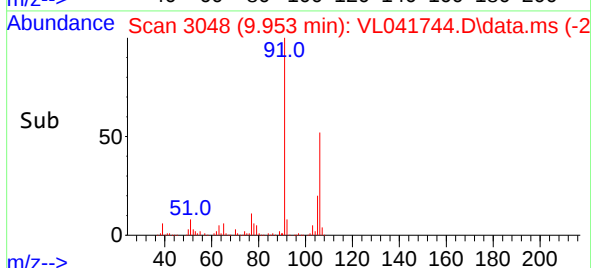
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

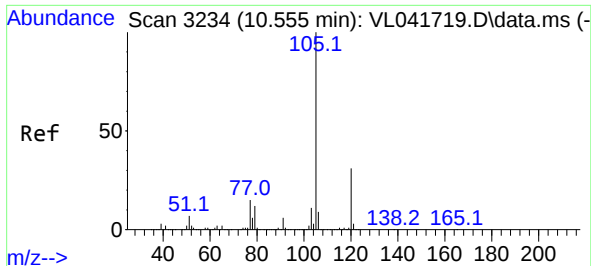


#60
o-Xylene
Concen: 0.612 ppbv
RT: 9.953 min Scan# 3048
Delta R.T. -0.026 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04



Tgt Ion: 91 Resp: 62880
Ion Ratio Lower Upper
91 100
106 51.1 26.8 80.4





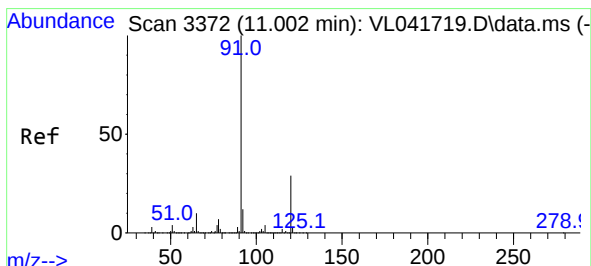
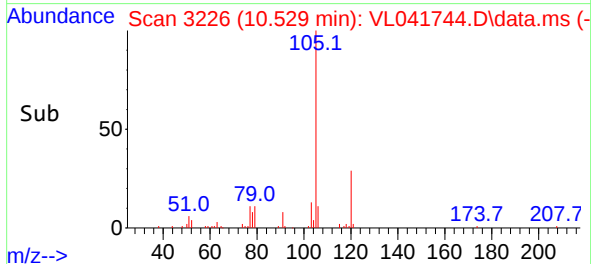
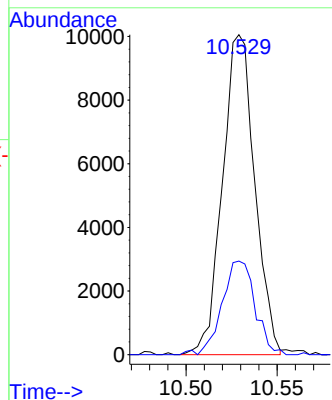
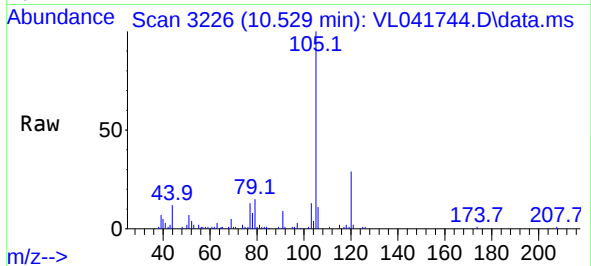
#62
Isopropylbenzene
Concen: 0.073 ppbv
RT: 10.529 min Scan# 31
Delta R.T. -0.026 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

Tgt Ion:105 Resp: 12390
Ion Ratio Lower Upper
105 100
120 30.0 24.3 36.5

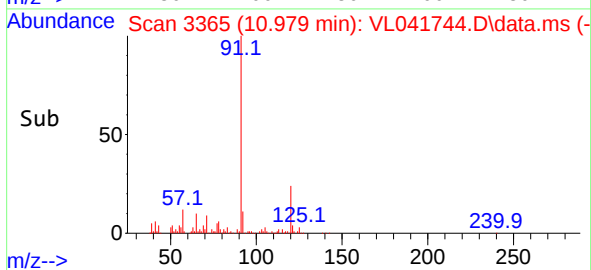
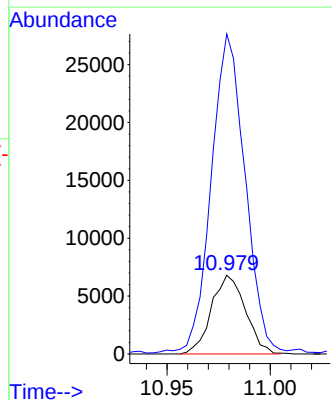
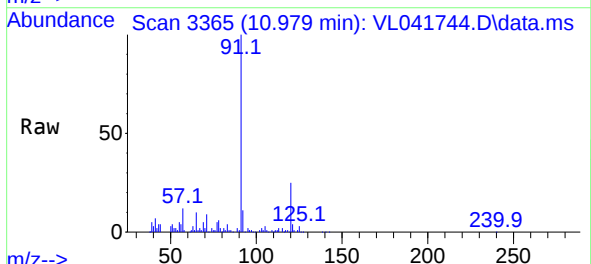
Manual Integrations
APPROVED

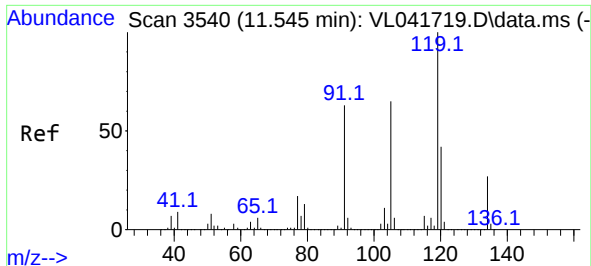
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#64
n-propylbenzene
Concen: 0.156 ppbv
RT: 10.979 min Scan# 3365
Delta R.T. -0.023 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

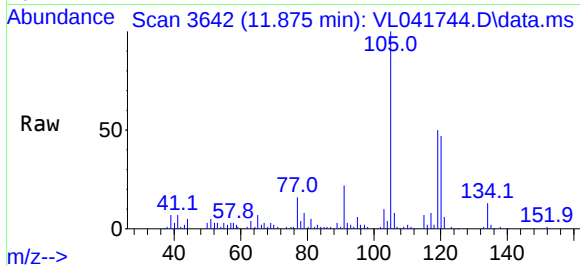
Tgt Ion:120 Resp: 7776
Ion Ratio Lower Upper
120 100
91 405.3 290.8 436.2





#65
tert-Butylbenzene
Concen: 0.058 ppbv
RT: 11.875 min Scan# 3175
Delta R.T. 0.330 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

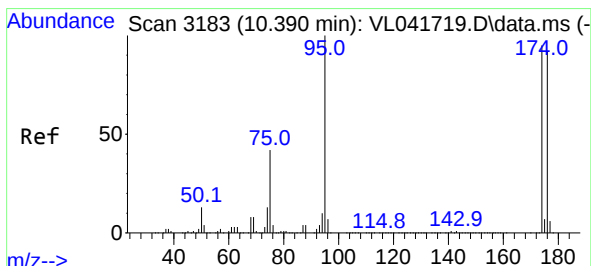
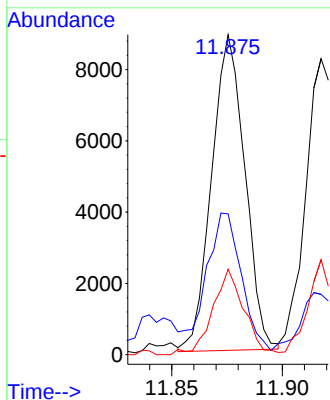
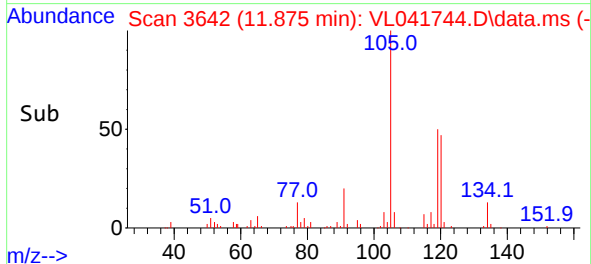
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion: 119 Resp: 9270
Ion Ratio Lower Upper
119 100
91 56.6 50.2 75.4
134 25.9 20.4 30.6

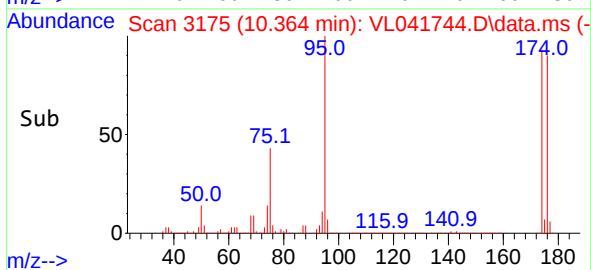
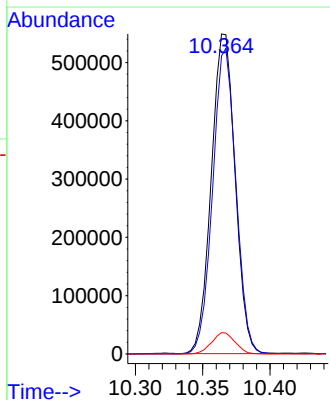
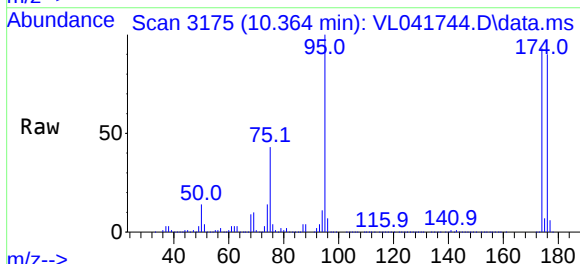
Manual Integrations
APPROVED

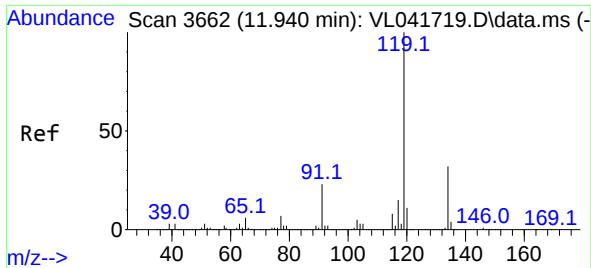
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#68
1-Bromo-4-Fluorobenzene
Concen: 10.165 ppbv
RT: 10.364 min Scan# 3175
Delta R.T. -0.026 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

Tgt Ion: 95 Resp: 675151
Ion Ratio Lower Upper
95 100
174 93.5 76.7 115.1
175 6.6 5.4 8.2





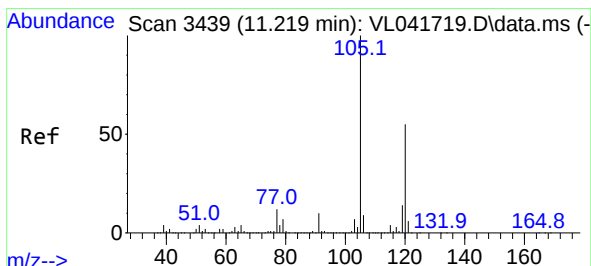
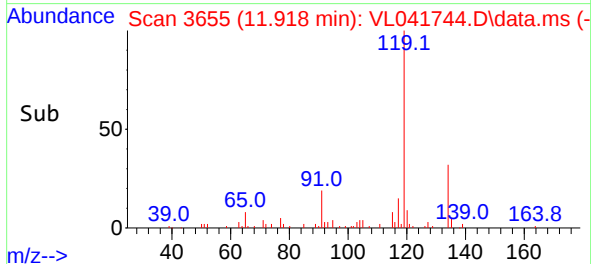
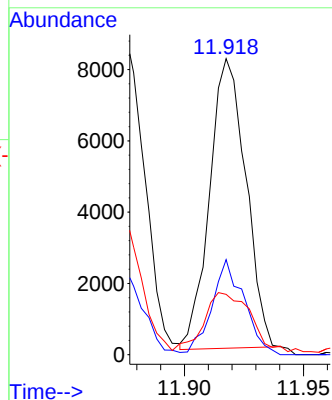
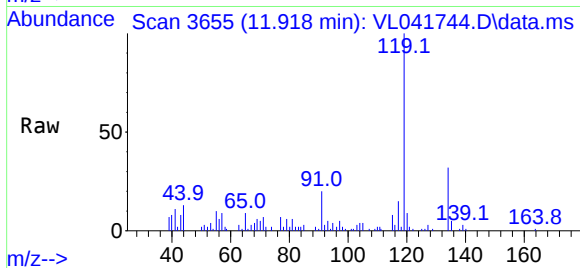
#69
p-Isopropyltoluene
Concen: 0.048 ppbv
RT: 11.918 min Scan# 3655
Delta R.T. -0.023 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

Instrument :
MSVOA_L
ClientSampleId :
IA4DUP

Tgt Ion:119 Resp: 8592
Ion Ratio Lower Upper
119 100
134 29.4 24.6 36.8
91 25.9 17.8 26.8

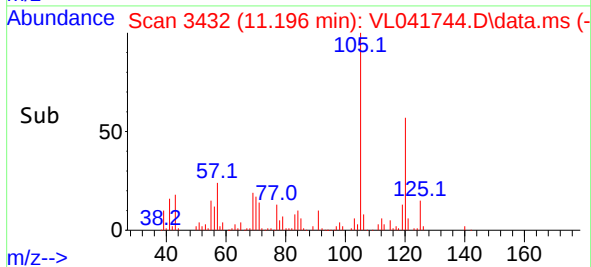
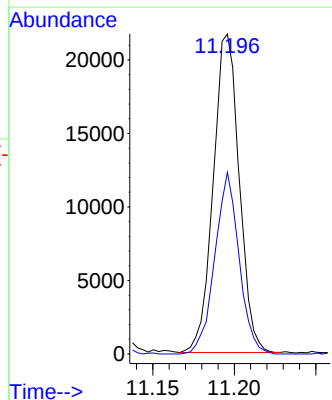
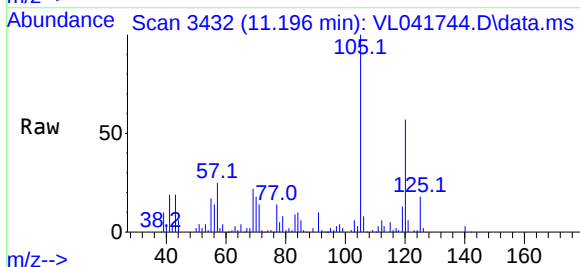
Manual Integrations
APPROVED

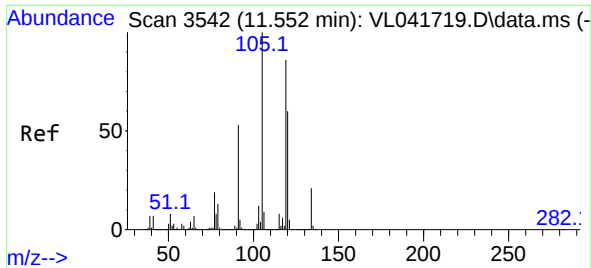
Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



#73
1,3,5-Trimethylbenzene
Concen: 0.223 ppbv
RT: 11.196 min Scan# 3432
Delta R.T. -0.023 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

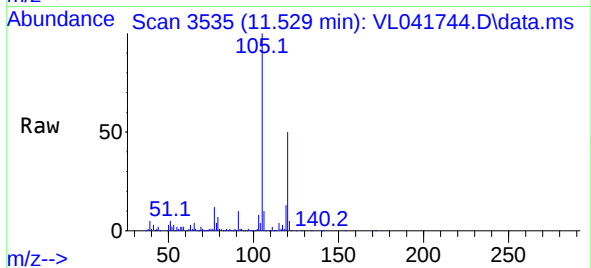
Tgt Ion:105 Resp: 23968
Ion Ratio Lower Upper
105 100
120 57.0 43.6 65.4





#74
1,2,4-Trimethylbenzene
Concen: 0.681 ppbv
RT: 11.529 min Scan# 3535
Delta R.T. -0.023 min
Lab File: VL041744.D
Acq: 12 Dec 2024 11:04

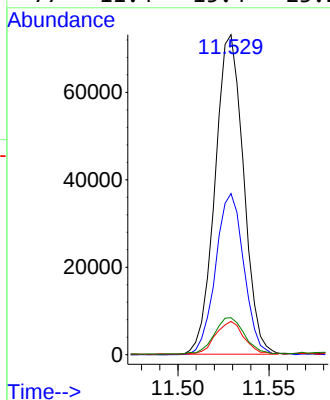
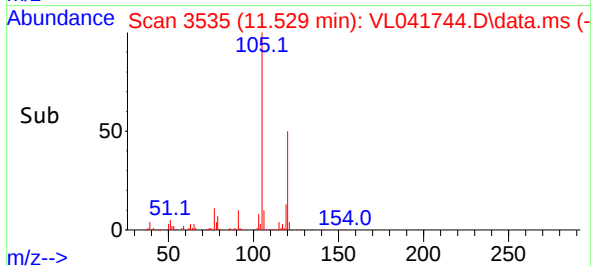
Instrument :
MSVOA_L
ClientSampleId :
IA4DUP



Tgt Ion:	105	Resp:	7943
Ion	Ratio	Lower	Upper
105	100		
120	50.4	47.8	71.6
91	10.2	42.5	63.7
77	11.4	15.4	23.2

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: P5150 SAS No.: P5150 SDG No.: P5150

Instrument ID: MSVOA_L Calibration Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Calibration Time(s): 14:10 17:21

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

LAB FILE ID:		RRF010 = VL041719.D		RRF002 = VL041720.D		RRF001 = VL041721.D		
		RRF0.5 = VL041722.D		RRF0.1 = VL041723.D		RRF.03 = VL041724.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.478	0.524	0.526	0.547	0.557	0.716	0.571	14.3
Heptane	1.529	1.656	1.655	1.651			1.605	4.2
1,1-Dichloroethene	0.715	0.815	0.844	0.807			0.827	10.4
Cyclohexane	1.655	1.808	1.774	1.806			1.748	4
cis-1,2-Dichloroethene	1.363	1.509	1.482	1.478			1.442	4.7
1,1,1-Trichloroethane	2.239	2.429	2.360	2.283	2.220	2.580	2.343	5.4
2,2,4-Trimethylpentane	1.027	1.142	1.148	1.124			1.094	5.5
Benzene	0.735	0.812	0.818	0.820			0.786	5.4
1,2-Dichloroethane	0.270	0.295	0.288	0.292			0.284	3.7
Trichloroethene	0.388	0.425	0.417	0.410	0.378	0.440	0.408	5.3
Toluene	0.909	1.055	0.987	0.959			0.966	6
Tetrachloroethene	0.384	0.436	0.410	0.411	0.428	0.451	0.417	5.6
Ethyl Benzene	1.272	1.441	1.366	1.351			1.338	5.5
m/p-Xylene	0.971	1.096	1.065	1.027			1.026	5.5
o-Xylene	0.970	1.076	1.051	1.018			1.017	4.7
1,3,5-Trimethylbenzene	1.043	1.116	1.072	1.022			1.062	3.4
1,2,4-Trimethylbenzene	1.143	1.227	1.142	1.108			1.155	3.8
Naphthalene	1.022	1.129	1.002	0.903	0.807		0.988	11.8
1-Bromo-4-Fluorobenzene	0.663	0.661	0.654	0.653	0.658	0.651	0.657	0.7
Hexane	1.455	1.638	1.610	1.616			1.556	5.8

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

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

Method File : VL121124AIR.M

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

Last Update : Thu Dec 12 13:35:39 2024

Response Via : Initial Calibration

Calibration Files

0.03=VL041724.D 0.1 =VL041723.D 0.5 =VL041722.D 1 =VL041721.D 2 =VL041720.D 10 =VL041719.D 15 =VL041725.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.700	1.762	1.763	1.530	2.022	1.755	10.07
3) Chlorodifluoro...			1.452	1.432	1.426	1.250	1.247	1.361	7.60
4) Chloromethane			0.460	0.464	0.443	0.412	0.550	0.466	11.02
5) T Vinyl Chloride	0.716	0.557	0.547	0.526	0.524	0.478	0.645	0.571	14.34
6) T Bromomethane			0.365	0.355	0.356	0.330	0.464	0.374	13.92
7) Chloroethane			0.256	0.240	0.236	0.214	0.295	0.248	12.15
8) T Dichlorotetra...			1.437	1.409	1.430	1.223	1.657	1.431	10.75
9) T Propene			0.649	0.610	0.590	0.519	0.534	0.580	9.27
10) T Heptane			1.651	1.655	1.656	1.529	1.533	1.605	4.20
11) T Trichlorofluor...			2.015	1.995	2.016	1.758	2.321	2.021	9.90
12) T 1,1,2-Trichlor...			1.825	1.815	1.813	1.567	2.080	1.820	9.98
13) Ethanol			0.085	0.060	0.042	0.023	0.029	0.048#	52.36
14) T Bromoethene			0.608	0.651	0.660	0.593	0.824	0.667	13.79
15) T Acetone			1.433	1.273	1.190	0.832	1.044	1.155	19.80
16) T 1,3-Butadiene			0.400	0.408	0.368	0.337	0.423	0.387	8.93
17) tert-Butyl alc...			1.714	1.704	1.643	1.492	1.816	1.674	7.11
18) T 1,1-Dichloroet...			0.807	0.844	0.815	0.715	0.953	0.827	10.37
19) T Isopropyl Alcohol			1.932	1.287	0.971	0.591	0.703	1.097	49.11
20) T Methylene Chlo...			0.807	0.691	0.658	0.570	0.771	0.699	13.42
21) T Allyl Chloride			0.616	0.648	0.634	0.588	0.764	0.650	10.39
22) T trans-1,2-Dich...			0.961	0.918	0.932	0.830	1.159	0.960	12.63
23) T Vinyl Acetate			0.683	0.747	0.778	0.665	0.622	0.699	9.02
24) T 1,1-Dichloroet...			1.285	1.275	1.263	1.135	1.543	1.300	11.45
25) T Ethyl Acetate			1.651	1.655	1.656	1.529	1.533	1.605	4.20
26) T Hexane			1.616	1.610	1.638	1.455	1.463	1.556	5.77
27) T Carbon Disulfide			1.376	1.488	1.527	1.543	2.078	1.602	17.09
28) T Methyl tert-Bu...			1.250	1.169	1.101	1.085	1.236	1.168	6.46
29) T Chloroform			2.481	2.469	2.488	2.213	2.261	2.382	5.63
30) T Cyclohexane			1.806	1.774	1.808	1.655	1.695	1.748	3.97
31) T cis-1,2-Dichlo...			1.478	1.482	1.509	1.363	1.376	1.442	4.67
32) T 1,1,1-Trichlor...	2.580	2.220	2.283	2.360	2.429	2.239	2.291	2.343	5.40
33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.371	0.375	0.364	0.319	0.321	0.350	7.91
35) T Carbon Tetrach...	0.460	0.408	0.449	0.475	0.493	0.480	0.495	0.466	6.54
36) T Benzene			0.820	0.818	0.812	0.735	0.746	0.786	5.37
37) T 1,2-Dichloroet...			0.292	0.288	0.295	0.270	0.276	0.284	3.74
38) T Trichloroethene	0.440	0.378	0.410	0.417	0.425	0.388	0.398	0.408	5.28
39) T 1,2-Dichloropr...			0.251	0.256	0.263	0.239	0.243	0.251	3.85

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL121124AIR.M										
40) T	1,4-Dioxane			0.153	0.160	0.155	0.142	0.146	0.151	4.71
41) T	Tetrahydrofuran			0.221	0.212	0.217	0.201	0.204	0.211	4.10
42) T	Bromodichlorom...			0.418	0.448	0.476	0.468	0.482	0.459	5.68
43) T	Methyl Methacr...			0.273	0.285	0.299	0.277	0.282	0.283	3.49
44) T	2,2,4-Trimethy...			1.124	1.148	1.142	1.027	1.032	1.094	5.49
45) T	t-1,3-Dichloro...			0.240	0.259	0.328	0.275	0.279	0.276	11.84
46) T	cis-1,3-Dichlo...			0.333	0.361	0.396	0.369	0.375	0.367	6.25
47) T	1,1,2-Trichlor...			0.332	0.336	0.367	0.314	0.320	0.334	6.15
48) T	Dibromochlorom...			0.386	0.431	0.561	0.503	0.522	0.481	14.74
49) T	Bromoform			0.344	0.397	0.526	0.505	0.527	0.460	18.33
50) T	4-Methyl-2-Pen...			0.497	0.505	0.553	0.473	0.483	0.502	6.14
51) T	2-Hexanone			0.408	0.420	0.473	0.381	0.384	0.413	9.02
52) T	Tetrachloroethene	0.451	0.428	0.411	0.410	0.436	0.384	0.396	0.417	5.57
53) T	Toluene			0.959	0.987	1.055	0.909	0.922	0.966	6.04
54) T	1,2-Dibromoethane		0.418	0.451	0.465	0.506	0.444	0.452	0.456	6.39
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.431	0.457	0.496	0.465	0.475	0.465	5.10
57) T	Chlorobenzene			0.928	0.953	0.954	0.855	0.860	0.910	5.39
58) T	Ethyl Benzene			1.351	1.366	1.441	1.272	1.261	1.338	5.51
59) T	m/p-Xylene			1.027	1.065	1.096	0.971	0.968	1.026	5.50
60) T	o-Xylene			1.018	1.051	1.076	0.970	0.968	1.017	4.74
61) T	Styrene			0.509	0.547	0.606	0.568	0.576	0.561	6.37
62) T	Isopropylbenzene			1.707	1.753	1.809	1.574	1.542	1.677	6.85
63) T	1,1,2,2-Tetrac...	0.707	0.622	0.655	0.672	0.696	0.628	0.626	0.658	5.28
64) T	n-propylbenzene			0.476	0.503	0.528	0.475	0.488	0.494	4.46
65) T	tert-Butylbenzene			1.614	1.652	1.712	1.488	1.484	1.590	6.37
66) T	Benzyl Chloride			1.152	1.182	1.213	1.074	1.080	1.140	5.42
67) T	sec-Butylbenzene			2.090	2.185	2.257	1.903	1.856	2.058	8.47
68) S	1-Bromo-4-Fluo...	0.651	0.658	0.653	0.654	0.661	0.663	0.661	0.657	0.71
69) T	p-Isopropyltol...			1.749	1.844	1.945	1.675	1.663	1.775	6.72
70) T	n-Butylbenzene			1.429	1.526	1.596	1.402	1.413	1.473	5.74
71) T	2-Chlorotoluene			1.152	1.182	1.213	1.074	1.080	1.140	5.42
72) T	4-Ethyltoluene			1.272	1.350	1.404	1.264	1.274	1.313	4.69
73) T	1,3,5-Trimethy...			1.022	1.072	1.116	1.043	1.057	1.062	3.35
74) T	1,2,4-Trimethy...			1.108	1.142	1.227	1.143	1.153	1.155	3.81
75) T	1,3-Dichlorobe...			0.929	0.953	0.975	0.868	0.889	0.923	4.80
76) T	1,4-Dichlorobe...			0.906	0.934	0.960	0.872	0.884	0.911	3.94
77) T	1,2-Dichlorobe...			0.894	0.897	0.920	0.817	0.841	0.874	4.91
78) T	Hexachloro-1,3...			0.742	0.767	0.816	0.609	0.657	0.718	11.71
79) T	Naphthalene		0.807	0.903	1.002	1.129	1.022	1.067	0.988	11.78
80) T	Naphthalene,2-...			0.148	0.171	0.278	0.566	0.625	0.358	62.59
81) T	1,2,4-Trichlor...			0.588	0.608	0.651	0.614	0.651	0.622	4.42

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041719.D
 Acq On : 11 Dec 2024 14:10
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:14:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	291384	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	1427448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	1277950	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 847807 10.092 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	445681	8.714	ppbv	100
3) Chlorodifluoromethane	1.476	51	364202	9.182	ppbv	100
4) Chloromethane	1.534	50	119978	8.840	ppbv	100
5) Vinyl Chloride	1.583	62	139269	8.378	ppbv	100
6) Bromomethane	1.670	94	96195	8.824	ppbv	100
7) Chloroethane	1.706	64	62450	8.636	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	356384	8.546	ppbv	100
9) Propene	1.486	41	151298	8.945	ppbv	100
10) Heptane	4.994	43	445623	9.530	ppbv	100
11) Trichlorofluoromethane	1.881	101	512210	8.697	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	456455	8.608	ppbv	100
13) Ethanol	1.722	45	6717	4.801	ppbv	100
14) Bromoethene	1.784	108	172666	8.884	ppbv	100
15) Acetone	1.839	43	242436	7.206	ppbv	100
16) 1,3-Butadiene	1.612	39	98195	8.701	ppbv	100
17) tert-Butyl alcohol	2.043	59	434773	8.914	ppbv	100
18) 1,1-Dichloroethene	2.036	96	208287	8.496	ppbv	100
19) Isopropyl Alcohol	1.887	45	172188	5.388	ppbv	100
20) Methylene Chloride	2.065	84	166024	8.147	ppbv	100
21) Allyl Chloride	2.101	41	171424	9.049	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	241961	8.622	ppbv	100
23) Vinyl Acetate	2.467	43	193830	9.515	ppbv	100
24) 1,1-Dichloroethane	2.415	63	330606	8.727	ppbv	100
25) Ethyl Acetate	4.994	43	445623	9.530	ppbv #	100
26) Hexane	2.832	57	423860	9.347	ppbv	100
27) Carbon Disulfide	2.156	76	449721	9.632	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	316057	9.285	ppbv	100
29) Chloroform	2.855	83	644825	9.289	ppbv	100
30) Cyclohexane	3.868	84	482102	9.460	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	397098	9.449	ppbv	100
32) 1,1,1-Trichloroethane	3.376	97	652293	9.555	ppbv	100
34) 2-Butanone	2.560	43	455226	9.108	ppbv	100
35) Carbon Tetrachloride	3.774	117	685768	10.315	ppbv	100
36) Benzene	3.664	78	1049009	9.347	ppbv	100
37) 1,2-Dichloroethane	3.227	62	385313	9.504	ppbv	100
38) Trichloroethene	4.561	130	553361	9.507	ppbv	100
39) 1,2-Dichloropropane	4.324	63	341481	9.549	ppbv	100
40) 1,4-Dioxane	4.596	88	203183	9.416	ppbv #	100
41) Tetrahydrofuran	3.062	42	286980	9.528	ppbv	100
42) Bromodichloromethane	4.502	83	668686	10.216	ppbv	100
43) Methyl Methacrylate	4.894	69	395756	9.790	ppbv	100
44) 2,2,4-Trimethylpentane	4.655	57	1466254	9.385	ppbv	100
45) t-1,3-Dichloropropene	6.431	75	392029	9.905	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041719.D
 Acq On : 11 Dec 2024 14:10
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:14:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	526762	10.056	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	448203	9.412	ppbv	100
48) Dibromochloromethane	7.406	129	717775	10.461	ppbv	100
49) Bromoform	9.500	173	721259	10.987	ppbv	100
50) 4-Methyl-2-Pentanone	5.771	43	675816	9.427	ppbv	100
51) 2-Hexanone	7.454	43	544093	9.228	ppbv	100
52) Tetrachloroethene	8.241	164	548139	9.218	ppbv	100
53) Toluene	6.949	91	1297617	9.408	ppbv	100
54) 1,2-Dibromoethane	7.668	107	633106	9.726	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	594125	10.000	ppbv	100
57) Chlorobenzene	8.937	112	1093018	9.399	ppbv	100
58) Ethyl Benzene	9.370	91	1625552	9.505	ppbv	100
59) m/p-Xylene	9.568	91	2482984m	18.951	ppbv	
60) o-Xylene	9.979	91	1239639	9.541	ppbv	100
61) Styrene	9.885	104	725710	10.118	ppbv	100
62) Isopropylbenzene	10.555	105	2011979	9.386	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	802268	9.543	ppbv	100
64) n-propylbenzene	11.002	120	607024	9.619	ppbv	100
65) tert-Butylbenzene	11.545	119	1900979	9.356	ppbv	100
66) Benzyl Chloride	10.914	91	1372889	9.422	ppbv	100
67) sec-Butylbenzene	11.782	105	2431886	9.246	ppbv	100
69) p-Isopropyltoluene	11.940	119	2140587	9.436	ppbv	100
70) n-Butylbenzene	12.296	91	1791267	9.515	ppbv	100
71) 2-Chlorotoluene	10.914	91	1372889	9.422	ppbv	100
72) 4-Ethyltoluene	11.138	105	1615742	9.630	ppbv	100
73) 1,3,5-Trimethylbenzene	11.219	105	1332277	9.815	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	1460995	9.901	ppbv	100
75) 1,3-Dichlorobenzene	11.623	146	1108805	9.403	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	1114894	9.573	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	1043603	9.346	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	778073	8.478	ppbv	100
79) Naphthalene	13.526	128	1306228	10.342	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	723329	15.829	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	784350	9.863	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Dec 12 13:14:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 12 13:14:06 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041720.D
 Acq On : 11 Dec 2024 14:43
 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 :Mahesh
 Dadoda

Quant Time: Dec 12 13:15:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	277626	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	1385343	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	1295180	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	856439	10.059	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.499	85	97905	2.009	ppbv	99
3) Chlorodifluoromethane	1.476	51	79172	2.095	ppbv	99
4) Chloromethane	1.534	50	24588	1.901	ppbv	97
5) Vinyl Chloride	1.580	62	29104	1.838	ppbv	96
6) Bromomethane	1.670	94	19786	1.905	ppbv	96
7) Chloroethane	1.706	64	13082	1.899	ppbv	97
8) Dichlorotetrafluoroethane	1.554	85	79386	1.998	ppbv	99
9) Propene	1.482	41	32779	2.034	ppbv	100
10) Heptane	4.991	43	91961	2.064	ppbv	97
11) Trichlorofluoromethane	1.881	101	111944	1.995	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	100651	1.992	ppbv	99
13) Ethanol	1.722	45	2350	1.763	ppbv	76
14) Bromoethene	1.783	108	36656	1.980	ppbv	98
15) Acetone	1.838	43	66064	2.061	ppbv	98
16) 1,3-Butadiene	1.609	39	20438	1.901	ppbv	96
17) tert-Butyl alcohol	2.042	59	91232	1.963	ppbv	100
18) 1,1-Dichloroethene	2.036	96	45267	1.938	ppbv	95
19) Isopropyl Alcohol	1.887	45	53907	1.770	ppbv	93
20) Methylene Chloride	2.065	84	36561	1.883	ppbv	96
21) Allyl Chloride	2.101	41	35226	1.952	ppbv	99
22) trans-1,2-Dichloroethene	2.343	96	51747	1.935	ppbv	98
23) Vinyl Acetate	2.466	43	43214m	2.226	ppbv	
24) 1,1-Dichloroethane	2.411	63	70151	1.943	ppbv	98
25) Ethyl Acetate	4.991	43	91961	2.064	ppbv #	97
26) Hexane	2.832	57	90974	2.106	ppbv	99
27) Carbon Disulfide	2.152	76	84774	1.906	ppbv #	87
28) Methyl tert-Butyl Ether	2.444	73	61139	1.885	ppbv	97
29) Chloroform	2.855	83	138157	2.089	ppbv	96
30) Cyclohexane	3.865	84	100415	2.068	ppbv	98
31) cis-1,2-Dichloroethene	2.725	61	83799	2.093	ppbv	99
32) 1,1,1-Trichloroethane	3.376	97	134846	2.073	ppbv	99
34) 2-Butanone	2.563	43	100854	2.079	ppbv	100
35) Carbon Tetrachloride	3.771	117	136519	2.116	ppbv	97
36) Benzene	3.664	78	224948	2.065	ppbv	98
37) 1,2-Dichloroethane	3.224	62	81628	2.075	ppbv	99
38) Trichloroethene	4.557	130	117701	2.084	ppbv	97
39) 1,2-Dichloropropane	4.324	63	72887	2.100	ppbv	99
40) 1,4-Dioxane	4.606	88	42986	2.053	ppbv #	59
41) Tetrahydrofuran	3.065	42	60168	2.058	ppbv	99
42) Bromodichloromethane	4.499	83	131836	2.075	ppbv	99
43) Methyl Methacrylate	4.894	69	82875	2.112	ppbv	100
44) 2,2,4-Trimethylpentane	4.651	57	316508	2.088	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	90924	2.367	ppbv	97

12/13/2024
 Supervised By :Semsettin
 esilyurt

12/13/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041720.D
 Acq On : 11 Dec 2024 14:43
 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 :Mahesh
 Dadoda

Quant Time: Dec 12 13:15:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
46) cis-1,3-Dichloropropene	5.616	75	109667	2.157	ppbv	96	12/13/2024
47) 1,1,2-Trichloroethane	6.596	97	101637	2.199	ppbv	98	Supervised By :Semsettin
48) Dibromochloromethane	7.402	129	155515	2.335	ppbv	100	Yesilyurt
49) Bromoform	9.496	173	145788	2.288	ppbv	98	
50) 4-Methyl-2-Pentanone	5.774	43	153134	2.201	ppbv	99	
51) 2-Hexanone	7.454	43	131059	2.290	ppbv #	100	
52) Tetrachloroethene	8.237	164	120747	2.092	ppbv	96	12/13/2024
53) Toluene	6.949	91	292341	2.184	ppbv	100	
54) 1,2-Dibromoethane	7.668	107	140215	2.219	ppbv	100	
56) 1,1,1,2-Tetrachloroethane	8.940	131	128450	2.133	ppbv	95	
57) Chlorobenzene	8.936	112	247207	2.098	ppbv	98	
58) Ethyl Benzene	9.367	91	373274	2.154	ppbv	99	
59) m/p-Xylene	9.564	91	567807m	4.276	ppbv		
60) o-Xylene	9.975	91	278836	2.117	ppbv	99	
61) Styrene	9.885	104	156919	2.159	ppbv	100	
62) Isopropylbenzene	10.552	105	468688	2.157	ppbv	97	
63) 1,1,2,2-Tetrachloroethane	9.975	83	180232	2.115	ppbv	100	
64) n-propylbenzene	11.001	120	136665	2.137	ppbv	93	
65) tert-Butylbenzene	11.542	119	443437	2.153	ppbv	99	
66) Benzyl Chloride	10.914	91	314226	2.128	ppbv	99	
67) sec-Butylbenzene	11.778	105	584643	2.193	ppbv	99	
69) p-Isopropyltoluene	11.937	119	503847	2.191	ppbv	97	
70) n-Butylbenzene	12.293	91	413520	2.167	ppbv	98	
71) 2-Chlorotoluene	10.914	91	314226	2.128	ppbv	98	
72) 4-Ethyltoluene	11.137	105	363629	2.138	ppbv	99	
73) 1,3,5-Trimethylbenzene	11.215	105	289211	2.102	ppbv	100	
74) 1,2,4-Trimethylbenzene	11.548	105	317920	2.126	ppbv	94	
75) 1,3-Dichlorobenzene	11.620	146	252474	2.113	ppbv	99	
76) 1,4-Dichlorobenzene	11.684	146	248692	2.107	ppbv	100	
77) 1,2-Dichlorobenzene	11.959	146	238217	2.105	ppbv	100	
78) Hexachloro-1,3-Butadiene	13.895	225	211434	2.273	ppbv	99	
79) Naphthalene	13.526	128	292520	2.285	ppbv	98	
80) Naphthalene,2-methyl-	14.471	142	71957	1.554	ppbv	99	
81) 1,2,4-Trichlorobenzene	13.452	180	168514	2.091	ppbv	99	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041721.D
 Acq On : 11 Dec 2024 15:14
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:16:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	285565	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	1424393	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	1275972	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 834468 9.948 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	50305	1.004	ppbv	95
3) Chlorodifluoromethane	1.476	51	40893	1.052	ppbv	97
4) Chloromethane	1.535	50	13261	0.997	ppbv	96
5) Vinyl Chloride	1.583	62	15024	0.922	ppbv	99
6) Bromomethane	1.670	94	10144	0.949	ppbv	95
7) Chloroethane	1.706	64	6852	0.967	ppbv	96
8) Dichlorotetrafluoroethane	1.557	85	40247	0.985	ppbv	99
9) Propene	1.486	41	17431	1.052	ppbv	98
10) Heptane	4.994	43	47259	1.031	ppbv	99
11) Trichlorofluoromethane	1.881	101	56973	0.987	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	51818	0.997	ppbv	100
13) Ethanol	1.725	45	1716	1.252	ppbv	90
14) Bromoethene	1.784	108	18586	0.976	ppbv #	98
15) Acetone	1.839	43	36363	1.103	ppbv	97
16) 1,3-Butadiene	1.612	39	11654	1.054	ppbv	93
17) tert-Butyl alcohol	2.046	59	48665	1.018	ppbv	97
18) 1,1-Dichloroethene	2.039	96	24104	1.003	ppbv	98
19) Isopropyl Alcohol	1.891	45	36746	1.173	ppbv #	29
20) Methylene Chloride	2.065	84	19720	0.987	ppbv	98
21) Allyl Chloride	2.101	41	18501	0.997	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	26219	0.953	ppbv	94
23) Vinyl Acetate	2.467	43	21334	1.069	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	36403	0.980	ppbv	99
25) Ethyl Acetate	4.994	43	47259	1.031	ppbv #	100
26) Hexane	2.832	57	45964	1.034	ppbv	96
27) Carbon Disulfide	2.156	76	42483	0.928	ppbv	96
28) Methyl tert-Butyl Ether	2.447	73	33377	1.001	ppbv	96
29) Chloroform	2.855	83	70511	1.036	ppbv	98
30) Cyclohexane	3.868	84	50673	1.015	ppbv	98
31) cis-1,2-Dichloroethene	2.729	61	42330	1.028	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	67396	1.007	ppbv	99
34) 2-Butanone	2.564	43	53437	1.071	ppbv	100
35) Carbon Tetrachloride	3.774	117	67711	1.021	ppbv	97
36) Benzene	3.667	78	116586	1.041	ppbv	98
37) 1,2-Dichloroethane	3.227	62	40996	1.013	ppbv	99
38) Trichloroethene	4.561	130	59358	1.022	ppbv	98
39) 1,2-Dichloropropane	4.328	63	36470	1.022	ppbv	98
40) 1,4-Dioxane	4.613	88	22757	1.057	ppbv #	53
41) Tetrahydrofuran	3.072	42	30134	1.003	ppbv	97
42) Bromodichloromethane	4.506	83	63873	0.978	ppbv	99
43) Methyl Methacrylate	4.901	69	40551	1.005	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	163463	1.049	ppbv	98
45) t-1,3-Dichloropropene	6.432	75	36886m	0.934	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041721.D
 Acq On : 11 Dec 2024 15:14
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:16:02 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	51435	0.984	ppbv	99
47) 1,1,2-Trichloroethane	6.603	97	47804	1.006	ppbv	97
48) Dibromochloromethane	7.406	129	61462	0.898	ppbv	100
49) Bromoform	9.500	173	56478	0.862	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	72003	1.007	ppbv	98
51) 2-Hexanone	7.461	43	59779	1.016	ppbv #	100
52) Tetrachloroethene	8.241	164	58434	0.985	ppbv	96
53) Toluene	6.953	91	140542	1.021	ppbv	99
54) 1,2-Dibromoethane	7.671	107	66302	1.021	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.943	131	58345	0.984	ppbv #	1
57) Chlorobenzene	8.940	112	121568	1.047	ppbv	98
58) Ethyl Benzene	9.370	91	174269	1.021	ppbv	95
59) m/p-Xylene	9.568	91	271769m	2.077	ppbv	
60) o-Xylene	9.979	91	134107	1.034	ppbv	97
61) Styrene	9.888	104	69858	0.976	ppbv	100
62) Isopropylbenzene	10.555	105	223680	1.045	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.979	83	85775	1.022	ppbv	100
64) n-propylbenzene	11.002	120	64153	1.018	ppbv	91
65) tert-Butylbenzene	11.545	119	210770	1.039	ppbv	99
66) Benzyl Chloride	10.914	91	150873	1.037	ppbv	99
67) sec-Butylbenzene	11.782	105	278739	1.061	ppbv	97
69) p-Isopropyltoluene	11.940	119	235291	1.039	ppbv	97
70) n-Butylbenzene	12.296	91	194669	1.036	ppbv	97
71) 2-Chlorotoluene	10.914	91	150873	1.037	ppbv	98
72) 4-Ethyltoluene	11.141	105	172273	1.028	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	136839	1.010	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	145671	0.989	ppbv #	84
75) 1,3-Dichlorobenzene	11.620	146	121649	1.033	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	119170	1.025	ppbv	100
77) 1,2-Dichlorobenzene	11.963	146	114431	1.026	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	97895	1.068	ppbv	98
79) Naphthalene	13.530	128	127810	1.014	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	21814	0.478	ppbv	97
81) 1,2,4-Trichlorobenzene	13.455	180	77622	0.978	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041722.D
 Acq On : 11 Dec 2024 15:46
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Dec 12 13:16:34 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

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

Internal Standards						
1) Bromochloromethane	2.793	49	278009	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	1393681	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	1236387	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 807853 9.939 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	23630	0.484	ppbv	97
3) Chlorodifluoromethane	1.476	51	20179	0.533	ppbv	98
4) Chloromethane	1.534	50	6397	0.494	ppbv	98
5) Vinyl Chloride	1.583	62	7601	0.479	ppbv	99
6) Bromomethane	1.670	94	5068	0.487	ppbv	94
7) Chloroethane	1.706	64	3557	0.516	ppbv	94
8) Dichlorotetrafluoroethane	1.554	85	19977	0.502	ppbv	99
9) Propene	1.483	41	9018m	0.559	ppbv	
10) Heptane	4.991	43	22950	0.514	ppbv	98
11) Trichlorofluoromethane	1.881	101	28015	0.499	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	25373	0.502	ppbv	99
13) Ethanol	1.722	45	1184	0.887	ppbv	85
14) Bromoethene	1.784	108	8449	0.456	ppbv #	78
15) Acetone	1.839	43	19921	0.621	ppbv	90
16) 1,3-Butadiene	1.612	39	5561	0.516	ppbv	99
17) tert-Butyl alcohol	2.046	59	23823	0.512	ppbv #	91
18) 1,1-Dichloroethene	2.036	96	11212	0.479	ppbv	91
19) Isopropyl Alcohol	1.890	45	26854	0.881	ppbv #	30
20) Methylene Chloride	2.065	84	11215	0.577	ppbv	97
21) Allyl Chloride	2.098	41	8560	0.474	ppbv	99
22) trans-1,2-Dichloroethene	2.344	96	13353	0.499	ppbv	96
23) Vinyl Acetate	2.467	43	9495	0.489	ppbv #	95
24) 1,1-Dichloroethane	2.412	63	17862	0.494	ppbv	99
25) Ethyl Acetate	4.991	43	22950	0.514	ppbv #	97
26) Hexane	2.829	57	22465	0.519	ppbv	96
27) Carbon Disulfide	2.153	76	19123	0.429	ppbv #	81
28) Methyl tert-Butyl Ether	2.447	73	17373	0.535	ppbv #	90
29) Chloroform	2.855	83	34490	0.521	ppbv	93
30) Cyclohexane	3.862	84	25108m	0.516	ppbv	
31) cis-1,2-Dichloroethene	2.725	61	20548	0.512	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	31733	0.487	ppbv	99
34) 2-Butanone	2.564	43	25869	0.530	ppbv	99
35) Carbon Tetrachloride	3.771	117	31260	0.482	ppbv	99
36) Benzene	3.664	78	57149	0.522	ppbv	99
37) 1,2-Dichloroethane	3.227	62	20338	0.514	ppbv	98
38) Trichloroethene	4.561	130	28565	0.503	ppbv	95
39) 1,2-Dichloropropane	4.324	63	17507	0.501	ppbv	99
40) 1,4-Dioxane	4.612	88	10665	0.506	ppbv #	48
41) Tetrahydrofuran	3.069	42	15433	0.525	ppbv	99
42) Bromodichloromethane	4.499	83	29121	0.456	ppbv	96
43) Methyl Methacrylate	4.897	69	19050	0.483	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	78299	0.513	ppbv	98
45) t-1,3-Dichloropropene	6.435	75	16759m	0.434	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041722.D
 Acq On : 11 Dec 2024 15:46
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:16:34 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	23194	0.454	ppbv	97
47) 1,1,2-Trichloroethane	6.596	97	23111	0.497	ppbv	96
48) Dibromochloromethane	7.406	129	26891	0.401	ppbv	100
49) Bromoform	9.496	173	23980	0.374	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	34606m	0.494	ppbv	
51) 2-Hexanone	7.461	43	28421	0.494	ppbv #	98
52) Tetrachloroethene	8.237	164	28674	0.494	ppbv	99
53) Toluene	6.946	91	66813	0.496	ppbv	99
54) 1,2-Dibromoethane	7.668	107	31433	0.495	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	26669	0.464	ppbv #	1
57) Chlorobenzene	8.937	112	57345	0.510	ppbv	97
58) Ethyl Benzene	9.367	91	83518	0.505	ppbv	96
59) m/p-Xylene	9.564	91	126994m	1.002	ppbv	
60) o-Xylene	9.976	91	62926	0.501	ppbv	98
61) Styrene	9.882	104	31493	0.454	ppbv	99
62) Isopropylbenzene	10.552	105	105547	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	40492	0.498	ppbv	98
64) n-propylbenzene	11.002	120	29407	0.482	ppbv	87
65) tert-Butylbenzene	11.542	119	99795	0.508	ppbv	97
66) Benzyl Chloride	10.911	91	71202	0.505	ppbv	98
67) sec-Butylbenzene	11.778	105	129227	0.508	ppbv	97
69) p-Isopropyltoluene	11.937	119	108114	0.493	ppbv	96
70) n-Butylbenzene	12.293	91	88335	0.485	ppbv	97
71) 2-Chlorotoluene	10.911	91	71202	0.505	ppbv	97
72) 4-Ethyltoluene	11.137	105	78648	0.485	ppbv	98
73) 1,3,5-Trimethylbenzene	11.215	105	63182	0.481	ppbv	98
74) 1,2,4-Trimethylbenzene	11.549	105	68504	0.480	ppbv	97
75) 1,3-Dichlorobenzene	11.620	146	57437	0.503	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	55997	0.497	ppbv	98
77) 1,2-Dichlorobenzene	11.960	146	55271	0.512	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	45851	0.516	ppbv	98
79) Naphthalene	13.526	128	55806	0.457	ppbv	97
80) Naphthalene,2-methyl-	14.471	142	9136	0.207	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	36361	0.473	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041723.D
 Acq On : 11 Dec 2024 16:17
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:17:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 12 13:14:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	276165	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	1374483	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	1217003	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	800482	10.005	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	1539	0.098	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	6130	0.095	ppbv	97
35) Carbon Tetrachloride	3.781	117	5606m	0.088	ppbv	
38) Trichloroethene	4.564	130	5196	0.093	ppbv	94
52) Tetrachloroethene	8.247	164	5884	0.103	ppbv	92
54) 1,2-Dibromoethane	7.677	107	5743	0.092	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.979	83	7566	0.095	ppbv	96
79) Naphthalene	13.529	128	9818	0.082	ppbv #	95

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

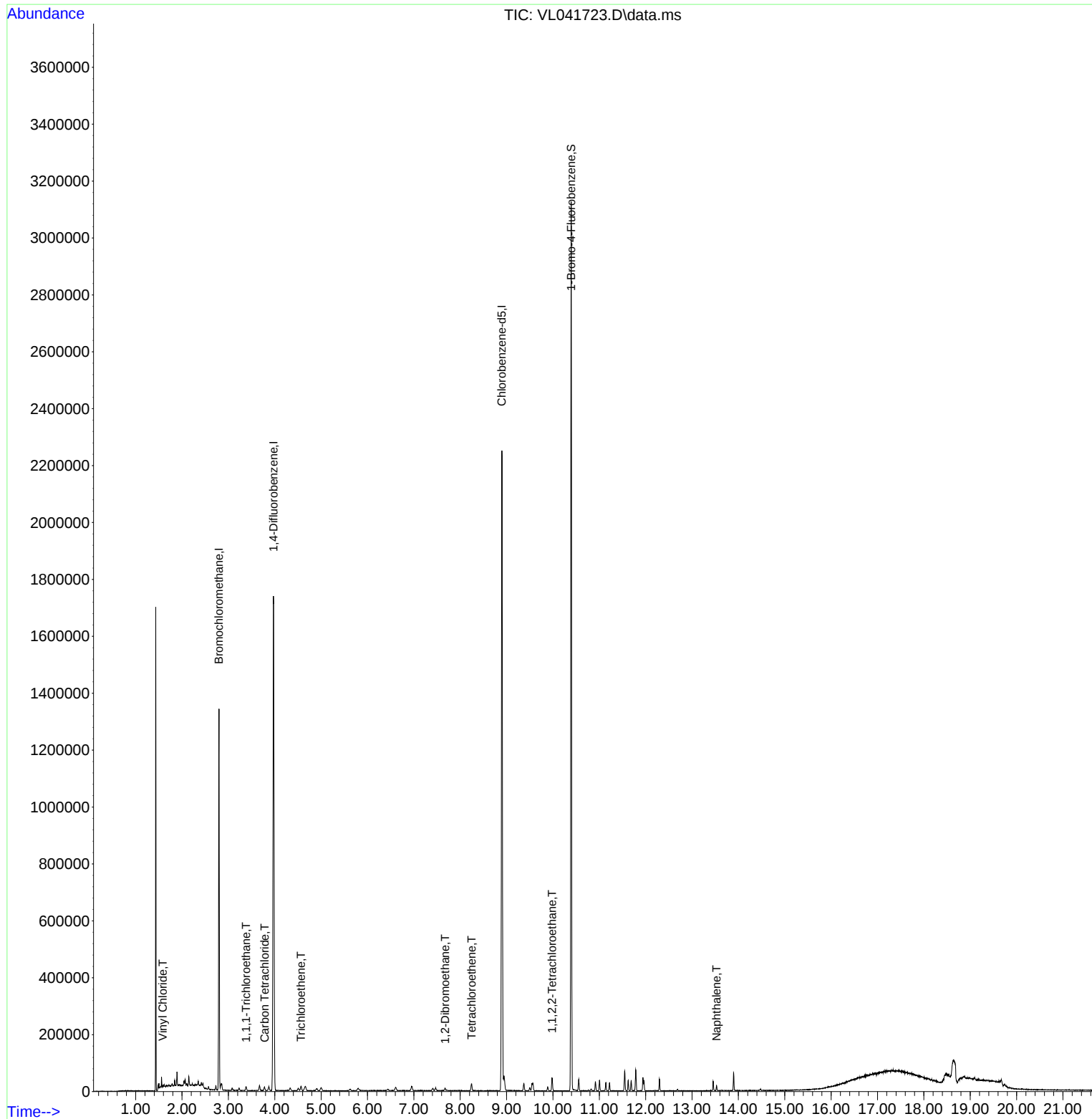
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041723.D
Acq On : 11 Dec 2024 16:17
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:17:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 12 13:14:06 2024
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041724.D
 Acq On : 11 Dec 2024 16:48
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:17:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Thu Dec 12 13:14:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	271460	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	1347505	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	1202636	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	782948	9.903	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	583	0.038	ppbv #	64
32) 1,1,1-Trichloroethane	3.379	97	2101m	0.033	ppbv	
38) Trichloroethene	4.567	130	1777m	0.032	ppbv	
52) Tetrachloroethene	8.244	164	1822m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.985	83	2549m	0.032	ppbv	

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

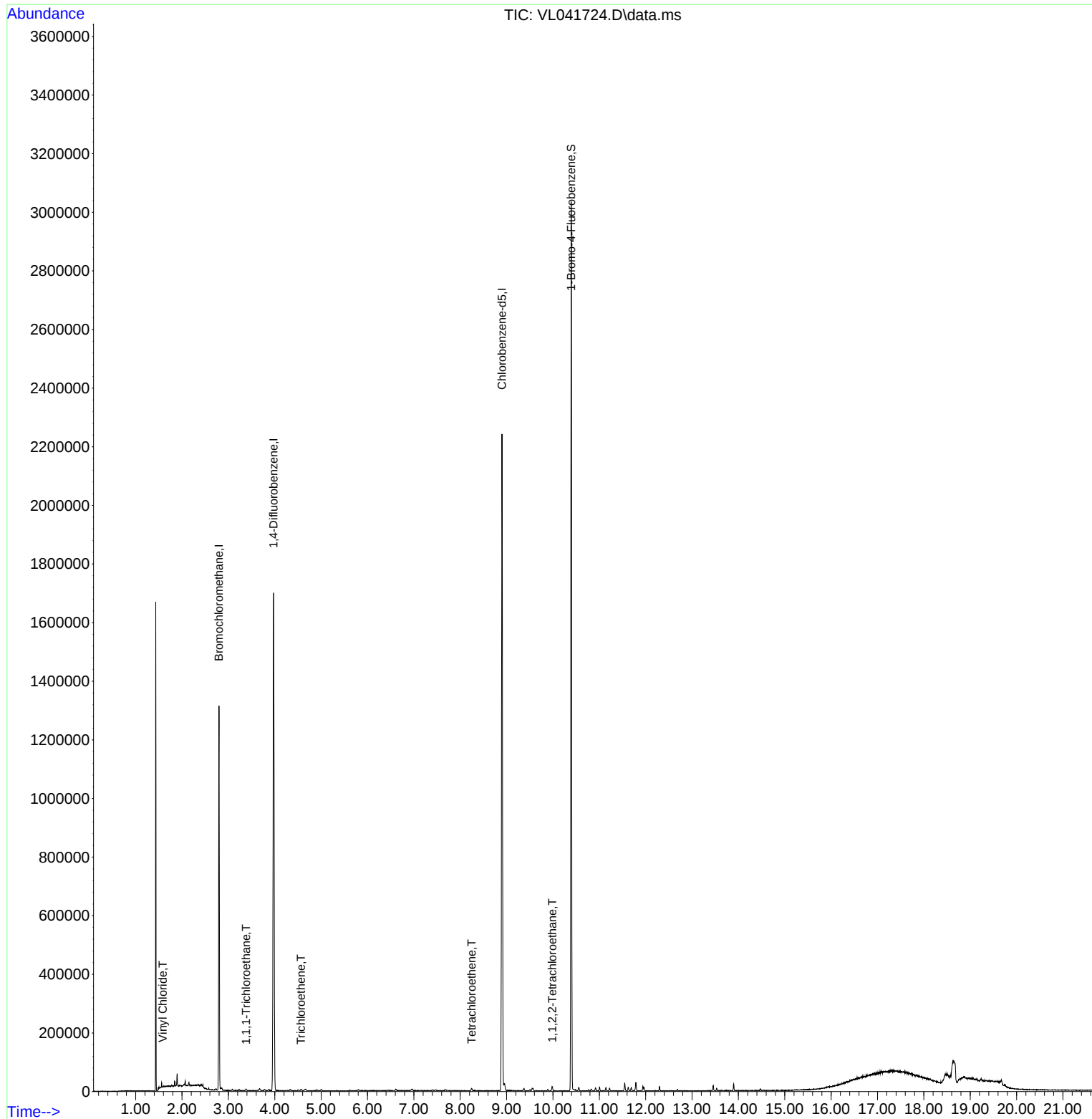
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041724.D
Acq On : 11 Dec 2024 16:48
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Dec 12 13:17:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Dec 12 13:14:06 2024
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
Supervised By :Semsettin Yesilyurt 12/13/2024



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041725.D
 Acq On : 11 Dec 2024 17:21
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:18:06 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	271367	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	1332176	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	1199960	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.396 95 793087 10.054 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	822884	17.277	ppbv	97
3) Chlorodifluoromethane	1.479	51	507602	13.741	ppbv	99
4) Chloromethane	1.538	50	223805	17.706	ppbv	98
5) Vinyl Chloride	1.583	62	262683	16.967	ppbv	97
6) Bromomethane	1.674	94	189051	18.620	ppbv	99
7) Chloroethane	1.709	64	120139	17.838	ppbv	99
8) Dichlorotetrafluoroethane	1.557	85	674343	17.363	ppbv	96
9) Propene	1.486	41	217245	13.791	ppbv	100
10) Heptane	5.004	43	623852	14.325	ppbv	99
11) Trichlorofluoromethane	1.884	101	944868	17.227	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.146	101	846549	17.143	ppbv	99
13) Ethanol	1.725	45	11979	9.194	ppbv	100
14) Bromoethene	1.787	108	335233	18.521	ppbv	99
15) Acetone	1.839	43	425150	13.570	ppbv	97
16) 1,3-Butadiene	1.612	39	172296	16.393	ppbv	97
17) tert-Butyl alcohol	2.043	59	739165	16.273	ppbv	100
18) 1,1-Dichloroethene	2.039	96	388096	16.998	ppbv	95
19) Isopropyl Alcohol	1.887	45	286200	9.617	ppbv	92
20) Methylene Chloride	2.069	84	313879	16.539	ppbv	99
21) Allyl Chloride	2.104	41	311066	17.632	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	471621	18.044	ppbv	98
23) Vinyl Acetate	2.470	43	253214	13.346	ppbv	98
24) 1,1-Dichloroethane	2.418	63	628058	17.801	ppbv	99
25) Ethyl Acetate	5.004	43	623852	14.325	ppbv #	99
26) Hexane	2.839	57	595417	14.098	ppbv	99
27) Carbon Disulfide	2.159	76	845886	19.454	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	503238	15.875	ppbv	100
29) Chloroform	2.858	83	920141	14.232	ppbv	99
30) Cyclohexane	3.875	84	690006	14.539	ppbv	100
31) cis-1,2-Dichloroethene	2.732	61	560017	14.309	ppbv	97
32) 1,1,1-Trichloroethane	3.383	97	932381	14.665	ppbv	100
34) 2-Butanone	2.564	43	642196	13.768	ppbv	99
35) Carbon Tetrachloride	3.781	117	989226	15.944	ppbv	100
36) Benzene	3.671	78	1490264	14.228	ppbv	100
37) 1,2-Dichloroethane	3.230	62	551376	14.572	ppbv	100
38) Trichloroethene	4.567	130	794408	14.625	ppbv	100
39) 1,2-Dichloropropane	4.331	63	485752	14.554	ppbv	98
40) 1,4-Dioxane	4.600	88	290806	14.441	ppbv #	94
41) Tetrahydrofuran	3.062	42	407196	14.486	ppbv	100
42) Bromodichloromethane	4.509	83	963584	15.774	ppbv	98
43) Methyl Methacrylate	4.901	69	562691	14.915	ppbv	100
44) 2,2,4-Trimethylpentane	4.661	57	2061284	14.138	ppbv	100
45) t-1,3-Dichloropropene	6.438	75	558104	15.110	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041725.D
 Acq On : 11 Dec 2024 17:21
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:18:06 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	749534	15.333	ppbv	98
47) 1,1,2-Trichloroethane	6.606	97	639329	14.386	ppbv	98
48) Dibromochloromethane	7.412	129	1042907	16.286	ppbv	100
49) Bromoform	9.503	173	1053854	17.201	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	964314	14.413	ppbv	99
51) 2-Hexanone	7.458	43	766412	13.928	ppbv	100
52) Tetrachloroethene	8.247	164	790697	14.248	ppbv	99
53) Toluene	6.959	91	1841601	14.307	ppbv	99
54) 1,2-Dibromoethane	7.674	107	903522	14.873	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	855322	15.331	ppbv	99
57) Chlorobenzene	8.943	112	1547656	14.174	ppbv	99
58) Ethyl Benzene	9.377	91	2270364	14.138	ppbv	98
59) m/p-Xylene	9.574	91	3485693m	28.333	ppbv	
60) o-Xylene	9.985	91	1742693	14.284	ppbv	100
61) Styrene	9.891	104	1035943	15.383	ppbv	100
62) Isopropylbenzene	10.558	105	2776128	13.793	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.982	83	1126779	14.274	ppbv	100
64) n-propylbenzene	11.008	120	878575	14.826	ppbv	93
65) tert-Butylbenzene	11.549	119	2671424	14.002	ppbv	98
66) Benzyl Chloride	10.921	91	1943095	14.202	ppbv	99
67) sec-Butylbenzene	11.785	105	3339897	13.524	ppbv	97
69) p-Isopropyltoluene	11.944	119	2992965	14.051	ppbv	98
70) n-Butylbenzene	12.300	91	2543438	14.388	ppbv	98
71) 2-Chlorotoluene	10.921	91	1943095	14.202	ppbv	99
72) 4-Ethyltoluene	11.144	105	2292986	14.555	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	1902799	14.930	ppbv	96
74) 1,2,4-Trimethylbenzene	11.555	105	2075220	14.978	ppbv	95
75) 1,3-Dichlorobenzene	11.626	146	1599846	14.449	ppbv	99
76) 1,4-Dichlorobenzene	11.691	146	1592044	14.558	ppbv	98
77) 1,2-Dichlorobenzene	11.966	146	1514587	14.446	ppbv	99
78) Hexachloro-1,3-Butadiene	13.898	225	1182302	13.719	ppbv	100
79) Naphthalene	13.529	128	1921154	16.200	ppbv	99
80) Naphthalene,2-methyl-	14.478	142	1125481	26.231	ppbv	100
81) 1,2,4-Trichlorobenzene	13.458	180	1170914	15.681	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041727.D
 Acq On : 11 Dec 2024 18:57
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121124

Quant Time: Dec 12 13:39:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 12/13/2024
 Supervised By : Semsettin Yesilyurt 12/13/2024

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

Internal Standards						
1) Bromochloromethane	2.797	49	272024	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	1347169	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	1204241	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 794892 10.041 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	580533	12.159	ppbv	99
3) Chlorodifluoromethane	1.479	51	328280	8.865	ppbv	99
4) Chloromethane	1.538	50	159581	12.594	ppbv	99
5) Vinyl Chloride	1.586	62	194158	12.511	ppbv	97
6) Bromomethane	1.674	94	110979	10.904	ppbv	99
7) Chloroethane	1.709	64	82299	12.190	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	537607	13.809	ppbv	95
9) Propene	1.486	41	145841	9.236	ppbv	99
10) Heptane	5.001	43	407804	9.342	ppbv	100
11) Trichlorofluoromethane	1.884	101	642761	11.691	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	556788	11.248	ppbv	97
13) Ethanol	1.725	45	5011	3.837	ppbv	96
14) Bromoethene	1.787	108	229537	12.651	ppbv	99
15) Acetone	1.839	43	275200	8.762	ppbv	95
16) 1,3-Butadiene	1.615	39	120175	11.407	ppbv	94
17) tert-Butyl alcohol	2.042	59	488806	10.735	ppbv	99
18) 1,1-Dichloroethene	2.042	96	257184	11.435	ppbv	92
19) Isopropyl Alcohol	1.887	45	193799	6.496	ppbv	94
20) Methylene Chloride	2.068	84	200509	10.540	ppbv	99
21) Allyl Chloride	2.104	41	198650	11.233	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	291191	11.151	ppbv	97
23) Vinyl Acetate	2.470	43	220673	11.603	ppbv	99
24) 1,1-Dichloroethane	2.418	63	400176	11.315	ppbv	99
25) Ethyl Acetate	5.001	43	407804	9.342	ppbv #	100
26) Hexane	2.839	57	394893	9.328	ppbv	95
27) Carbon Disulfide	2.159	76	521169	11.957	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	333274	10.488	ppbv	100
29) Chloroform	2.858	83	597509	9.220	ppbv	98
30) Cyclohexane	3.874	84	448344	9.430	ppbv	99
31) cis-1,2-Dichloroethene	2.732	61	363027	9.257	ppbv	99
32) 1,1,1-Trichloroethane	3.382	97	601597	9.439	ppbv	100
34) 2-Butanone	2.560	43	411778	8.730	ppbv	99
35) Carbon Tetrachloride	3.781	117	628372	10.015	ppbv	100
36) Benzene	3.671	78	979553	9.248	ppbv	99
37) 1,2-Dichloroethane	3.230	62	354647	9.269	ppbv	100
38) Trichloroethene	4.567	130	707606	12.882	ppbv	99
39) 1,2-Dichloropropane	4.334	63	319154	9.456	ppbv	98
40) 1,4-Dioxane	4.603	88	192695	9.462	ppbv #	98
41) Tetrahydrofuran	3.062	42	267844	9.423	ppbv	100
42) Bromodichloromethane	4.509	83	616763	9.984	ppbv	98
43) Methyl Methacrylate	4.900	69	359920	9.434	ppbv	100
44) 2,2,4-Trimethylpentane	4.661	57	1362393	9.240	ppbv	100
45) t-1,3-Dichloropropene	6.441	75	299658	8.050	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041727.D
 Acq On : 11 Dec 2024 18:57
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121124

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:39:20 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	433661	8.777	ppbv	99
47) 1,1,2-Trichloroethane	6.606	97	412595	9.181	ppbv	99
48) Dibromochloromethane	7.409	129	645357	9.966	ppbv	100
49) Bromoform	9.503	173	618536	9.984	ppbv	100
50) 4-Methyl-2-Pentanone	5.774	43	636683	9.411	ppbv	100
51) 2-Hexanone	7.457	43	501628	9.015	ppbv #	100
52) Tetrachloroethene	8.244	164	498257	8.879	ppbv	99
53) Toluene	6.956	91	1196640	9.193	ppbv	100
54) 1,2-Dibromoethane	7.674	107	558361	9.089	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	523722	9.354	ppbv	99
57) Chlorobenzene	8.943	112	993543	9.067	ppbv	99
58) Ethyl Benzene	9.373	91	1481316	9.192	ppbv	100
59) m/p-Xylene	9.571	91	2242398m	18.157	ppbv	
60) o-Xylene	9.982	91	1129220	9.223	ppbv	99
61) Styrene	9.888	104	642908	9.513	ppbv	99
62) Isopropylbenzene	10.558	105	1797524	8.899	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	410264	5.179	ppbv	100
64) n-propylbenzene	11.005	120	537948	9.046	ppbv	99
65) tert-Butylbenzene	11.548	119	1712958	8.946	ppbv	100
66) Benzyl Chloride	10.917	91	1214041	8.842	ppbv	99
67) sec-Butylbenzene	11.785	105	2177949	8.788	ppbv	100
69) p-Isopropyltoluene	11.943	119	1919196	8.978	ppbv	99
70) n-Butylbenzene	12.299	91	1617908	9.120	ppbv	100
71) 2-Chlorotoluene	10.917	91	1214041	8.842	ppbv	99
72) 4-Ethyltoluene	11.144	105	1465645	9.270	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	1205117	9.422	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	1318865	9.485	ppbv	99
75) 1,3-Dichlorobenzene	11.626	146	979618	8.816	ppbv	100
76) 1,4-Dichlorobenzene	11.688	146	973358	8.869	ppbv	100
77) 1,2-Dichlorobenzene	11.963	146	928133	8.821	ppbv	100
78) Hexachloro-1,3-Butadiene	13.898	225	812858	9.399	ppbv	100
79) Naphthalene	13.529	128	1314699	11.046	ppbv	100
80) Naphthalene,2-methyl-	14.478	142	1005562	23.353	ppbv	100
81) 1,2,4-Trichlorobenzene	13.458	180	798796	10.660	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041727.D
 Acq On : 11 Dec 2024 18:57
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121124

Quant Time: Dec 12 13:39:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 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	1.755	2.134	-21.6	130	0.00
3	Chlorodifluoromethane	1.361	1.207	11.3	90	0.00
4	Chloromethane	0.466	0.587	-26.0	133	0.00
5 T	Vinyl Chloride	0.571	0.714	-25.0	139	0.00
6 T	Bromomethane	0.374	0.408	-9.1	115	0.00
7	Chloroethane	0.248	0.303	-22.2	132	0.00
8 T	Dichlorotetrafluoroethane	1.431	1.976	-38.1#	151#	0.00
9 T	Propene	0.580	0.536	7.6	96	0.00
10 T	Heptane	1.605	1.499	6.6	92	0.00
11 T	Trichlorofluoromethane	2.021	2.363	-16.9	125	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.820	2.047	-12.5	122	0.00
13	Ethanol	0.048	0.018#	62.5#	75	0.00
14 T	Bromoethene	0.667	0.844	-26.5	133	0.00
15 T	Acetone	1.155	1.012	12.4	114	0.00
16 T	1,3-Butadiene	0.387	0.442	-14.2	122	0.00
17	tert-Butyl alcohol	1.674	1.797	-7.3	112	0.00
18 T	1,1-Dichloroethene	0.827	0.945	-14.3	123	0.00
19 T	Isopropyl Alcohol	1.097	0.712	35.1#	113	0.00
20 T	Methylene Chloride	0.699	0.737	-5.4	121	0.00
21 T	Allyl Chloride	0.650	0.730	-12.3	116	0.00
22 T	trans-1,2-Dichloroethene	0.960	1.070	-11.5	120	0.00
23 T	Vinyl Acetate	0.699	0.811	-16.0	114	0.00
24 T	1,1-Dichloroethane	1.300	1.471	-13.2	121	0.00
25 T	Ethyl Acetate	1.605	1.499	6.6	92	0.00
26 T	Hexane	1.556	1.452	6.7	93	0.00
27 T	Carbon Disulfide	1.602	1.916	-19.6	116	0.00
28 T	Methyl tert-Butyl Ether	1.168	1.225	-4.9	105	0.00
29 T	Chloroform	2.382	2.197	7.8	93	0.00
30 T	Cyclohexane	1.748	1.648	5.7	93	0.00
31 T	cis-1,2-Dichloroethene	1.442	1.335	7.4	91	0.00
32 T	1,1,1-Trichloroethane	2.343	2.212	5.6	92	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	94	0.00
34 T	2-Butanone	0.350	0.306	12.6	90	0.00
35 T	Carbon Tetrachloride	0.466	0.466	0.0	92	0.00
36 T	Benzene	0.786	0.727	7.5	93	0.00
37 T	1,2-Dichloroethane	0.284	0.263	7.4	92	0.00
38 T	Trichloroethene	0.408	0.525	-28.7	128	0.00
39 T	1,2-Dichloropropane	0.251	0.237	5.6	93	0.00
40 T	1,4-Dioxane	0.151	0.143	5.3	95	0.00
41 T	Tetrahydrofuran	0.211	0.199	5.7	93	0.00
42 T	Bromodichloromethane	0.459	0.458	0.2	92	0.00
43	Methyl Methacrylate	0.283	0.267	5.7	91	0.00
44 T	2,2,4-Trimethylpentane	1.094	1.011	7.6	93	0.00
45 T	t-1,3-Dichloropropene	0.276	0.222	19.6	76	0.00
46 T	cis-1,3-Dichloropropene	0.367	0.322	12.3	82	0.00
47 T	1,1,2-Trichloroethane	0.334	0.306	8.4	92	0.00
48 T	Dibromochloromethane	0.481	0.479	0.4	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041727.D
 Acq On : 11 Dec 2024 18:57
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121124

Quant Time: Dec 12 13:39:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 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	0.460	0.459	0.2	86	0.00
50 T	4-Methyl-2-Pentanone	0.502	0.473	5.8	94	0.00
51 T	2-Hexanone	0.413	0.372	9.9	92	0.00
52 T	Tetrachloroethene	0.417	0.370	11.3	91	0.00
53 T	Toluene	0.966	0.888	8.1	92	0.00
54 T	1,2-Dibromoethane	0.456	0.414	9.2	88	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.465	0.435	6.5	88	0.00
57 T	Chlorobenzene	0.910	0.825	9.3	91	0.00
58 T	Ethyl Benzene	1.338	1.230	8.1	91	0.00
59 T	m/p-Xylene	1.026	0.931	9.3	90	0.00
60 T	o-Xylene	1.017	0.938	7.8	91	0.00
61 T	Styrene	0.561	0.534	4.8	89	0.00
62	Isopropylbenzene	1.677	1.493	11.0	89	0.00
63 T	1,1,2,2-Tetrachloroethane	0.658	0.341	48.2#	51	0.00
64	n-propylbenzene	0.494	0.447	9.5	89	0.00
65	tert-Butylbenzene	1.590	1.422	10.6	90	0.00
66 T	Benzyl Chloride	1.140	1.008	11.6	88	0.00
67	sec-Butylbenzene	2.058	1.809	12.1	90	0.00
68 S	1-Bromo-4-Fluorobenzene	0.657	0.660	-0.5	94	0.00
69	p-Isopropyltoluene	1.775	1.594	10.2	90	0.00
70	n-Butylbenzene	1.473	1.344	8.8	90	0.00
71	2-Chlorotoluene	1.140	1.008	11.6	88	0.00
72 T	4-Ethyltoluene	1.313	1.217	7.3	91	0.00
73 T	1,3,5-Trimethylbenzene	1.062	1.001	5.7	90	0.00
74 T	1,2,4-Trimethylbenzene	1.155	1.095	5.2	90	0.00
75 T	1,3-Dichlorobenzene	0.923	0.813	11.9	88	0.00
76 T	1,4-Dichlorobenzene	0.911	0.808	11.3	87	0.00
77 T	1,2-Dichlorobenzene	0.874	0.771	11.8	89	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.675	6.0	104	0.00
79 T	Naphthalene	0.988	1.092	-10.5	101	0.00
80 T	Naphthalene,2-methyl-	0.358	0.835	-133.2#	139	0.00
81 T	1,2,4-Trichlorobenzene	0.622	0.663	-6.6	102	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041727.D
 Acq On : 11 Dec 2024 18:57
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSV121124

Quant Time: Dec 12 13:39:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 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	12.159	-21.6	130	0.00
3	Chlorodifluoromethane	10.000	8.865	11.3	90	0.00
4	Chloromethane	10.000	12.594	-25.9	133	0.00
5 T	Vinyl Chloride	10.000	12.511	-25.1	139	0.00
6 T	Bromomethane	10.000	10.904	-9.0	115	0.00
7	Chloroethane	10.000	12.190	-21.9	132	0.00
8 T	Dichlorotetrafluoroethane	10.000	13.809	-38.1#	151	0.00
9 T	Propene	10.000	9.236	7.6	96	0.00
10 T	Heptane	10.000	9.342	6.6	92	0.00
11 T	Trichlorofluoromethane	10.000	11.691	-16.9	125	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	11.248	-12.5	122	0.00
13	Ethanol	10.000	3.837	61.6#	75	0.00
14 T	Bromoethene	10.000	12.651	-26.5	133	0.00
15 T	Acetone	10.000	8.762	12.4	114	0.00
16 T	1,3-Butadiene	10.000	11.407	-14.1	122	0.00
17	tert-Butyl alcohol	10.000	10.735	-7.3	112	0.00
18 T	1,1-Dichloroethene	10.000	11.435	-14.4	123	0.00
19 T	Isopropyl Alcohol	10.000	6.496	35.0#	113	0.00
20 T	Methylene Chloride	10.000	10.540	-5.4	121	0.00
21 T	Allyl Chloride	10.000	11.233	-12.3	116	0.00
22 T	trans-1,2-Dichloroethene	10.000	11.151	-11.5	120	0.00
23 T	Vinyl Acetate	10.000	11.603	-16.0	114	0.00
24 T	1,1-Dichloroethane	10.000	11.315	-13.1	121	0.00
25 T	Ethyl Acetate	10.000	9.342	6.6	92	0.00
26 T	Hexane	10.000	9.328	6.7	93	0.00
27 T	Carbon Disulfide	10.000	11.957	-19.6	116	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.488	-4.9	105	0.00
29 T	Chloroform	10.000	9.220	7.8	93	0.00
30 T	Cyclohexane	10.000	9.430	5.7	93	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.257	7.4	91	0.00
32 T	1,1,1-Trichloroethane	10.000	9.439	5.6	92	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	94	0.00
34 T	2-Butanone	10.000	8.730	12.7	90	0.00
35 T	Carbon Tetrachloride	10.000	10.015	-0.2	92	0.00
36 T	Benzene	10.000	9.248	7.5	93	0.00
37 T	1,2-Dichloroethane	10.000	9.269	7.3	92	0.00
38 T	Trichloroethene	10.000	12.882	-28.8	128	0.00
39 T	1,2-Dichloropropane	10.000	9.456	5.4	93	0.00
40 T	1,4-Dioxane	10.000	9.462	5.4	95	0.00
41 T	Tetrahydrofuran	10.000	9.423	5.8	93	0.00
42 T	Bromodichloromethane	10.000	9.984	0.2	92	0.00
43	Methyl Methacrylate	10.000	9.434	5.7	91	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.240	7.6	93	0.00
45 T	t-1,3-Dichloropropene	10.000	8.050	19.5	76	0.00
46 T	cis-1,3-Dichloropropene	10.000	8.777	12.2	82	0.00
47 T	1,1,2-Trichloroethane	10.000	9.181	8.2	92	0.00
48 T	Dibromochloromethane	10.000	9.966	0.3	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041727.D
 Acq On : 11 Dec 2024 18:57
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL121124

Quant Time: Dec 12 13:39:20 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	9.984	0.2	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.411	5.9	94	0.00
51 T	2-Hexanone	10.000	9.015	9.8	92	0.00
52 T	Tetrachloroethene	10.000	8.879	11.2	91	0.00
53 T	Toluene	10.000	9.193	8.1	92	0.00
54 T	1,2-Dibromoethane	10.000	9.089	9.1	88	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.354	6.5	88	0.00
57 T	Chlorobenzene	10.000	9.067	9.3	91	0.00
58 T	Ethyl Benzene	10.000	9.192	8.1	91	0.00
59 T	m/p-Xylene	20.000	18.157	9.2	90	0.00
60 T	o-Xylene	10.000	9.223	7.8	91	0.00
61 T	Styrene	10.000	9.513	4.9	89	0.00
62	Isopropylbenzene	10.000	8.899	11.0	89	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	5.179	48.2#	51	0.00
64	n-propylbenzene	10.000	9.046	9.5	89	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	8.842	11.6	88	0.00
67	sec-Butylbenzene	10.000	8.788	12.1	90	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.041	-0.4	94	0.00
69	p-Isopropyltoluene	10.000	8.978	10.2	90	0.00
70	n-Butylbenzene	10.000	9.120	8.8	90	0.00
71	2-Chlorotoluene	10.000	8.842	11.6	88	0.00
72 T	4-Ethyltoluene	10.000	9.270	7.3	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.422	5.8	90	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.485	5.2	90	0.00
75 T	1,3-Dichlorobenzene	10.000	8.816	11.8	88	0.00
76 T	1,4-Dichlorobenzene	10.000	8.869	11.3	87	0.00
77 T	1,2-Dichlorobenzene	10.000	8.821	11.8	89	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.399	6.0	104	0.00
79 T	Naphthalene	10.000	11.046	-10.5	101	0.00
80 T	Naphthalene,2-methyl-	10.000	23.353	-133.5#	139	0.00
81 T	1,2,4-Trichlorobenzene	10.000	10.660	-6.6	102	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: P5150 SAS No.: P5150 SDG No.: P5150

Instrument ID: MSVOA_L Calibration Date/Time: 12/11/2024 14:10

Lab File ID: VL041719.D Init. Calib. Date(s): 12/11/2024 12/11/2024

Heated Purge: (Y/N) N Init. Calib. Time(s): 14:10 17:21

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.571	0.478		-16.29	
Heptane	1.605	1.529		-4.74	
1,1-Dichloroethene	0.827	0.715		-13.54	
Cyclohexane	1.748	1.655		-5.32	
cis-1,2-Dichloroethene	1.442	1.363		-5.48	
1,1,1-Trichloroethane	2.343	2.239		-4.44	
2,2,4-Trimethylpentane	1.094	1.027		-6.12	
Benzene	0.786	0.735		-6.49	
1,2-Dichloroethane	0.284	0.270		-4.93	
Trichloroethene	0.408	0.388		-4.9	
Toluene	0.966	0.909		-5.9	
Tetrachloroethene	0.417	0.384		-7.91	
Ethyl Benzene	1.338	1.272		-4.93	
m/p-Xylene	1.026	0.971		-5.36	
o-Xylene	1.017	0.970		-4.62	
1,3,5-Trimethylbenzene	1.062	1.043		-1.79	
1,2,4-Trimethylbenzene	1.155	1.143		-1.04	
Naphthalene	0.988	1.022		3.44	
1-Bromo-4-Fluorobenzene	0.657	0.663		0.91	
Hexane	1.556	1.455		-6.49	

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\VL121124\
 Data File : VL041719.D
 Acq On : 11 Dec 2024 14:10
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:14:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	291384	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	1427448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	1277950	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 847807 10.092 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	445681	8.714	ppbv	100
3) Chlorodifluoromethane	1.476	51	364202	9.182	ppbv	100
4) Chloromethane	1.534	50	119978	8.840	ppbv	100
5) Vinyl Chloride	1.583	62	139269	8.378	ppbv	100
6) Bromomethane	1.670	94	96195	8.824	ppbv	100
7) Chloroethane	1.706	64	62450	8.636	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	356384	8.546	ppbv	100
9) Propene	1.486	41	151298	8.945	ppbv	100
10) Heptane	4.994	43	445623	9.530	ppbv	100
11) Trichlorofluoromethane	1.881	101	512210	8.697	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	456455	8.608	ppbv	100
13) Ethanol	1.722	45	6717	4.801	ppbv	100
14) Bromoethene	1.784	108	172666	8.884	ppbv	100
15) Acetone	1.839	43	242436	7.206	ppbv	100
16) 1,3-Butadiene	1.612	39	98195	8.701	ppbv	100
17) tert-Butyl alcohol	2.043	59	434773	8.914	ppbv	100
18) 1,1-Dichloroethene	2.036	96	208287	8.496	ppbv	100
19) Isopropyl Alcohol	1.887	45	172188	5.388	ppbv	100
20) Methylene Chloride	2.065	84	166024	8.147	ppbv	100
21) Allyl Chloride	2.101	41	171424	9.049	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	241961	8.622	ppbv	100
23) Vinyl Acetate	2.467	43	193830	9.515	ppbv	100
24) 1,1-Dichloroethane	2.415	63	330606	8.727	ppbv	100
25) Ethyl Acetate	4.994	43	445623	9.530	ppbv #	100
26) Hexane	2.832	57	423860	9.347	ppbv	100
27) Carbon Disulfide	2.156	76	449721	9.632	ppbv	100
28) Methyl tert-Butyl Ether	2.447	73	316057	9.285	ppbv	100
29) Chloroform	2.855	83	644825	9.289	ppbv	100
30) Cyclohexane	3.868	84	482102	9.460	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	397098	9.449	ppbv	100
32) 1,1,1-Trichloroethane	3.376	97	652293	9.555	ppbv	100
34) 2-Butanone	2.560	43	455226	9.108	ppbv	100
35) Carbon Tetrachloride	3.774	117	685768	10.315	ppbv	100
36) Benzene	3.664	78	1049009	9.347	ppbv	100
37) 1,2-Dichloroethane	3.227	62	385313	9.504	ppbv	100
38) Trichloroethene	4.561	130	553361	9.507	ppbv	100
39) 1,2-Dichloropropane	4.324	63	341481	9.549	ppbv	100
40) 1,4-Dioxane	4.596	88	203183	9.416	ppbv #	100
41) Tetrahydrofuran	3.062	42	286980	9.528	ppbv	100
42) Bromodichloromethane	4.502	83	668686	10.216	ppbv	100
43) Methyl Methacrylate	4.894	69	395756	9.790	ppbv	100
44) 2,2,4-Trimethylpentane	4.655	57	1466254	9.385	ppbv	100
45) t-1,3-Dichloropropene	6.431	75	392029	9.905	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041719.D
 Acq On : 11 Dec 2024 14:10
 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 :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:14:43 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:14:06 2024

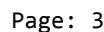
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	526762	10.056	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	448203	9.412	ppbv	100
48) Dibromochloromethane	7.406	129	717775	10.461	ppbv	100
49) Bromoform	9.500	173	721259	10.987	ppbv	100
50) 4-Methyl-2-Pentanone	5.771	43	675816	9.427	ppbv	100
51) 2-Hexanone	7.454	43	544093	9.228	ppbv	100
52) Tetrachloroethene	8.241	164	548139	9.218	ppbv	100
53) Toluene	6.949	91	1297617	9.408	ppbv	100
54) 1,2-Dibromoethane	7.668	107	633106	9.726	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	594125	10.000	ppbv	100
57) Chlorobenzene	8.937	112	1093018	9.399	ppbv	100
58) Ethyl Benzene	9.370	91	1625552	9.505	ppbv	100
59) m/p-Xylene	9.568	91	2482984m	18.951	ppbv	
60) o-Xylene	9.979	91	1239639	9.541	ppbv	100
61) Styrene	9.885	104	725710	10.118	ppbv	100
62) Isopropylbenzene	10.555	105	2011979	9.386	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	802268	9.543	ppbv	100
64) n-propylbenzene	11.002	120	607024	9.619	ppbv	100
65) tert-Butylbenzene	11.545	119	1900979	9.356	ppbv	100
66) Benzyl Chloride	10.914	91	1372889	9.422	ppbv	100
67) sec-Butylbenzene	11.782	105	2431886	9.246	ppbv	100
69) p-Isopropyltoluene	11.940	119	2140587	9.436	ppbv	100
70) n-Butylbenzene	12.296	91	1791267	9.515	ppbv	100
71) 2-Chlorotoluene	10.914	91	1372889	9.422	ppbv	100
72) 4-Ethyltoluene	11.138	105	1615742	9.630	ppbv	100
73) 1,3,5-Trimethylbenzene	11.219	105	1332277	9.815	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	1460995	9.901	ppbv	100
75) 1,3-Dichlorobenzene	11.623	146	1108805	9.403	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	1114894	9.573	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	1043603	9.346	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	778073	8.478	ppbv	100
79) Naphthalene	13.526	128	1306228	10.342	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	723329	15.829	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	784350	9.863	ppbv	100

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

Manual Integrations APPROVED

Quant Time: Dec 12 13:14:43 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Dec 12 13:14:06 2024
Response via : Initial Calibration





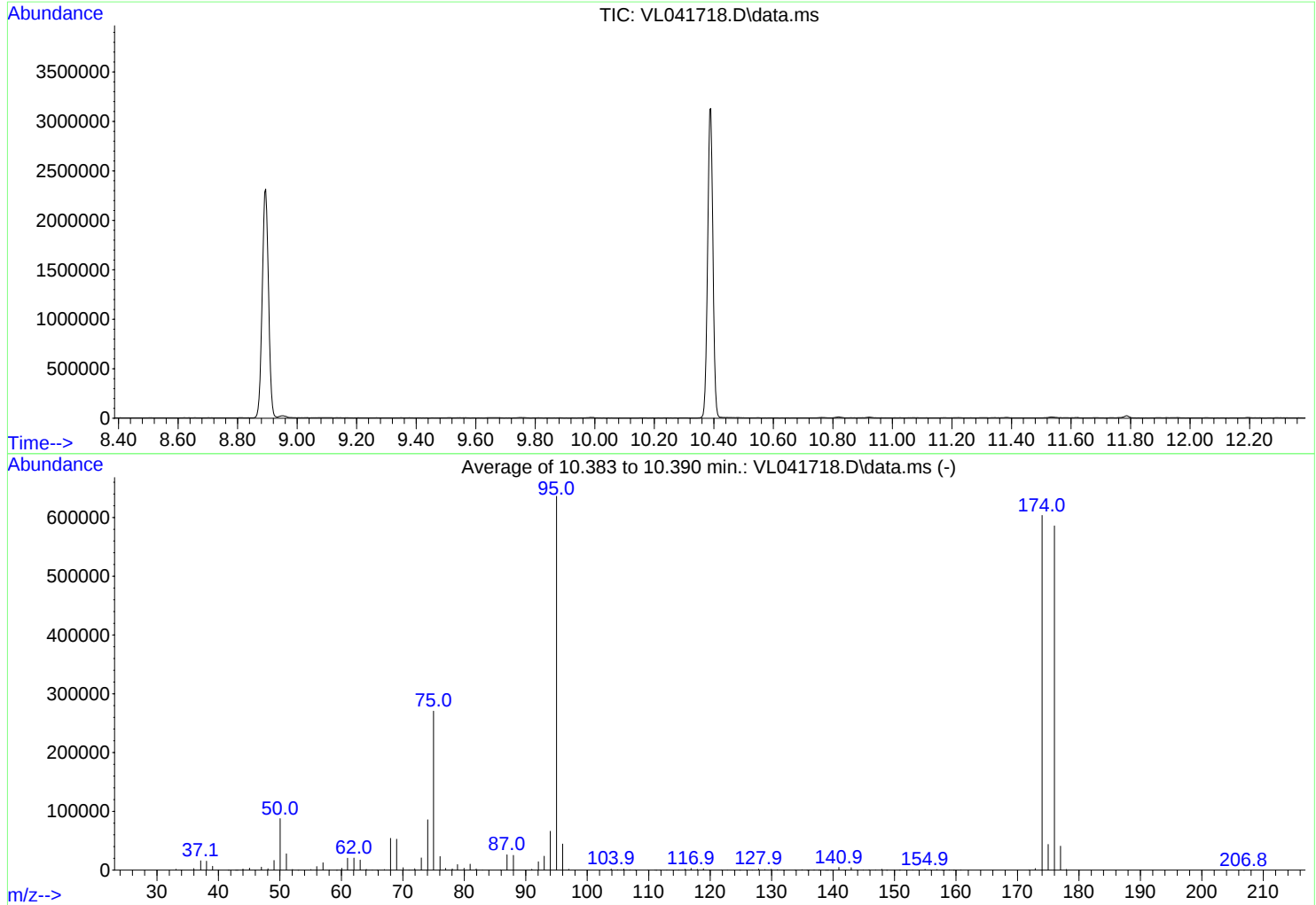
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041718.D
Acq On : 11 Dec 2024 13:38
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\VL121124AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Dec 12 13:35:39 2024



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.8	87664	PASS
75	95	30	66	42.5	270592	PASS
95	95	100	100	100.0	636160	PASS
96	95	5	9	7.0	44440	PASS
173	174	0.00	2	0.4	2686	PASS
174	95	50	120	94.9	603648	PASS
175	174	4	9	7.2	43747	PASS
176	174	93	101	97.0	585707	PASS
177	176	5	9	7.0	40776	PASS

Average of 10.383 to 10.390 min.: VL041718.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1423	45.05	3397	57.00	12648	68.00	5397
33.90	32	45.95	244	58.05	566	69.00	5258
36.00	2576	47.00	5050	59.20	21	70.05	423
37.10	15917	48.05	2310	60.05	3209	71.00	22
38.05	15349	49.05	16344	61.00	20373	71.95	2401
39.05	6452	50.05	87664	62.05	20424	73.00	20824
40.00	412	51.05	27664	63.05	17141	74.05	85584
41.60	38	52.05	1330	64.05	1524	75.00	270592
42.80	20	52.95	128	65.05	308	76.05	23181
43.05	138	55.05	950	65.80	67	76.95	2866
44.00	1905	56.00	6042	67.00	1114	78.05	2279

Average of 10.383 to 10.390 min.: VL041718.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.90	9527	94.00	66224	111.00	216	122.80	209
79.95	3069	95.00	636160	111.20	132	123.90	369
80.95	10172	96.00	44440	111.85	243	124.80	145
81.95	2244	97.00	1441	112.95	325	125.90	265
82.95	330	102.85	206	114.85	445	126.85	222
85.90	507	103.90	1978	115.95	1665	127.90	1959
86.95	26117	104.90	661	116.90	3011	128.90	880
88.00	25200	105.95	1869	117.90	1543	129.95	1773
91.00	1465	106.95	527	118.90	2440	130.95	753
92.05	14325	107.80	22	119.85	109	131.95	146
93.00	23792	109.90	168	121.85	181	133.80	118

Average of 10.383 to 10.390 min.: VL041718.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
134.95	780	140.95	4487	149.95	541	159.60	41
135.75	92	141.80	426	150.80	24	160.80	553
136.00	42	142.10	242	151.75	300	171.85	385
136.80	558	142.95	4194	152.95	567	172.90	2686
137.00	390	143.85	316	153.80	383	174.00	603648
137.70	38	144.90	528	154.95	1452	175.00	43747
138.80	50	145.85	858	155.90	278	176.00	585707
139.10	121	146.90	422	156.90	1045	177.00	40776
139.60	76	147.95	1479	157.70	67	177.95	1190
139.85	213	148.70	125	158.00	30	206.80	17
140.15	261	148.85	362	158.90	586		

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	
Client Sample ID:	VL1211ABL01	SDG No.:	P5150
Lab Sample ID:	VL1211ABL01	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
VL041728.D	1		12/11/24 19:28	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
142-82-5	Heptane	0.11	0.45	U	0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.10	0.47	U	0.47	2.34	ug/m3
71-43-2	Benzene	0.090	0.29	U	0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	0.090	0.36	U	0.36	2.02	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.11	0.41	U	0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.12	0.52	U	0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	0.21	0.91	U	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.12	0.52	U	0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.11	0.54	U	0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.080	0.39	U	0.39	2.46	ug/m3
91-20-3	Naphthalene	0.080	0.42	U	0.42	0.52	ug/m3
110-54-3	Hexane	0.11	0.39	U	0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	272000		2.797			
540-36-3	1,4-Difluorobenzene	1360000		3.972			
3114-55-4	Chlorobenzene-d5	1200000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041728.D
 Acq On : 11 Dec 2024 19:28
 Operator : SY/MD
 Sample : VL1211ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABL01

Quant Time: Dec 12 13:39:51 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	272196	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	1359828	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	1203529	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	788122	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%

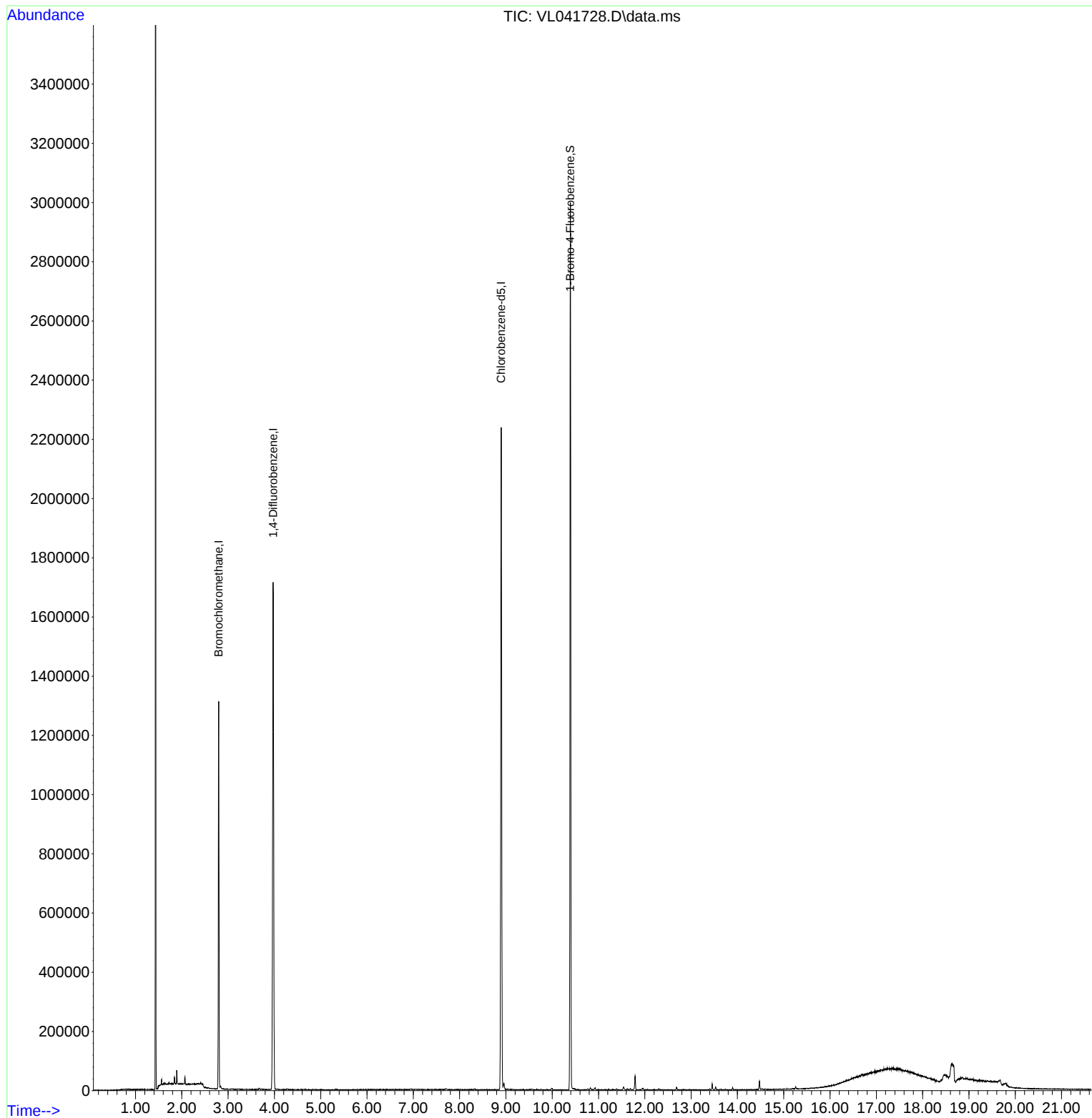
Target Compounds	Qvalue

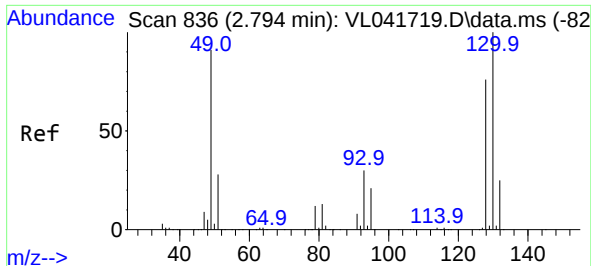
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
Data File : VL041728.D
Acq On : 11 Dec 2024 19:28
Operator : SY/MD
Sample : VL1211ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL1211ABL01

Quant Time: Dec 12 13:39:51 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

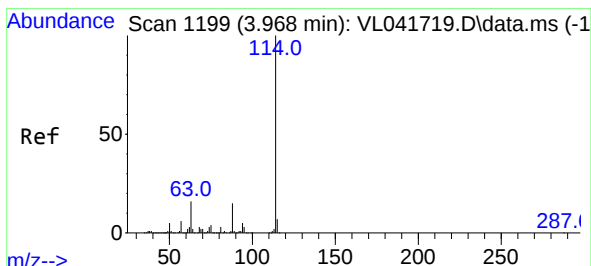
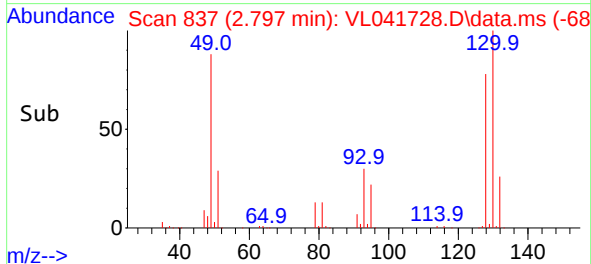
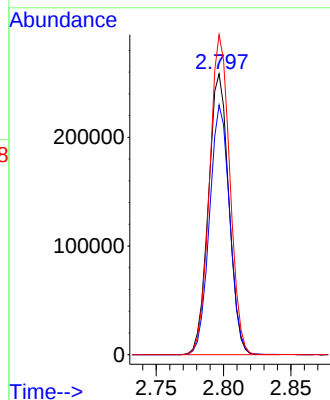
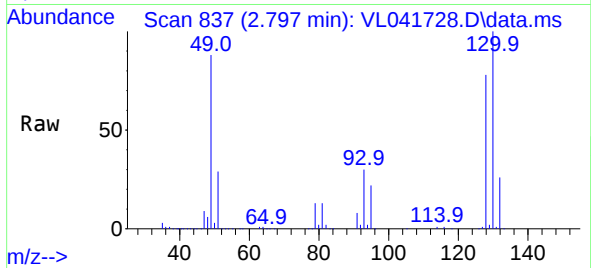




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL041728.D
Acq: 11 Dec 2024 19:28

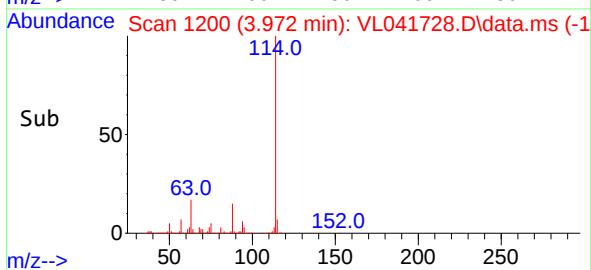
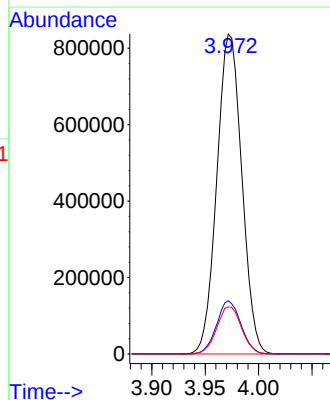
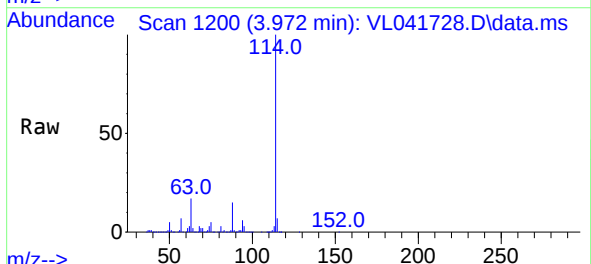
Instrument :
MSVOA_L
ClientSampleId :
VL1211ABL01

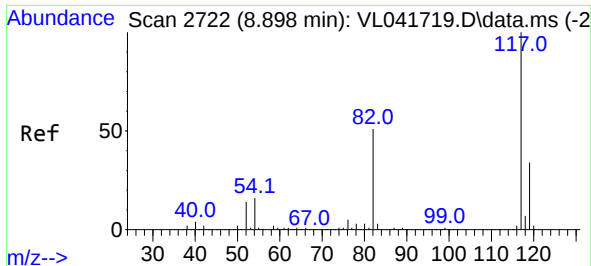
Tgt Ion: 49 Resp: 272196
Ion Ratio Lower Upper
49 100
128 88.0 42.8 128.3
130 113.1 55.8 167.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. 0.003 min
Lab File: VL041728.D
Acq: 11 Dec 2024 19:28

Tgt Ion: 114 Resp: 1359828
Ion Ratio Lower Upper
114 100
63 16.2 12.9 19.3
88 14.7 11.8 17.6

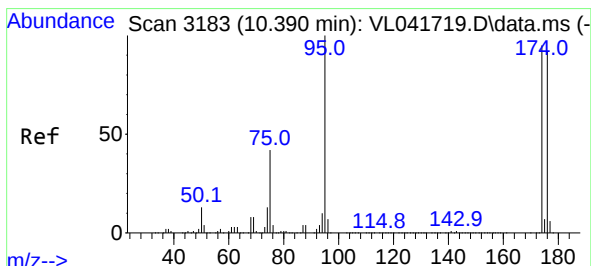
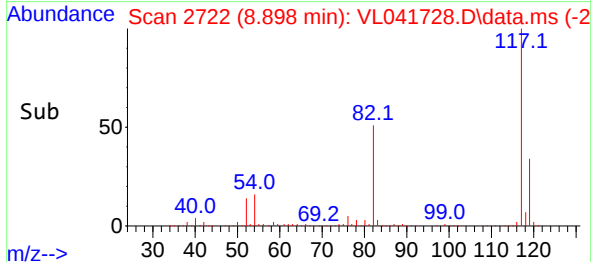
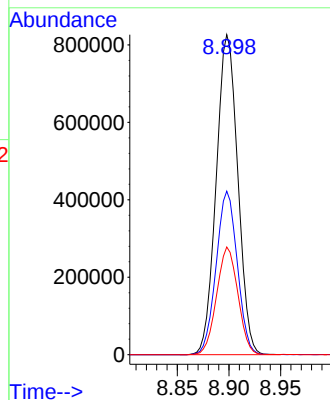
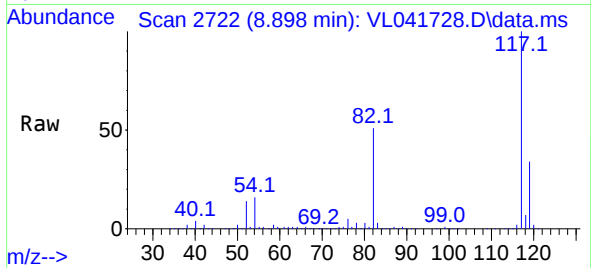




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041728.D
Acq: 11 Dec 2024 19:28

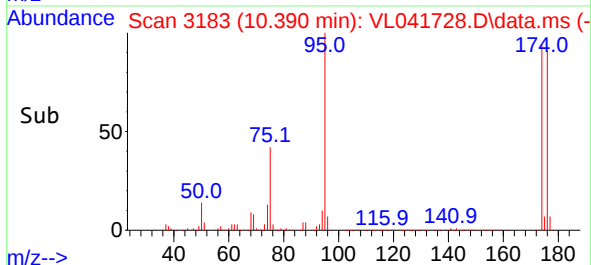
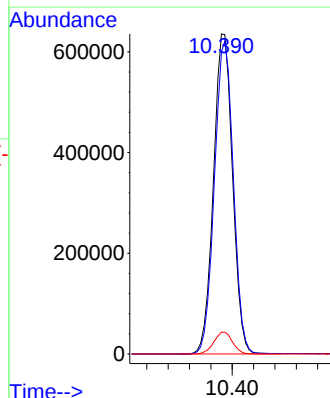
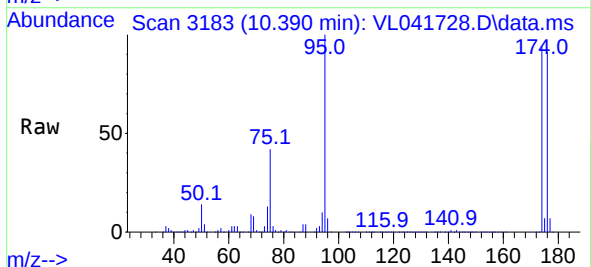
Instrument :
MSVOA_L
ClientSampleId :
VL1211ABL01

Tgt Ion:117 Resp: 1203529
Ion Ratio Lower Upper
117 100
82 50.1 41.3 61.9
119 33.2 25.8 38.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.961 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.000 min
Lab File: VL041728.D
Acq: 11 Dec 2024 19:28

Tgt Ion: 95 Resp: 788122
Ion Ratio Lower Upper
95 100
174 97.3 76.7 115.1
175 6.7 5.4 8.2



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	262 Taaffe PL, Brooklyn NY	Date Received:	
Client Sample ID:	VL1211ABS02	SDG No.:	P5150
Lab Sample ID:	VL1211ABS02	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
VL041736.D	1		12/11/24 23:41	VL121124

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	12.3	31.4		0.030	0.080	ug/m3
142-82-5	Heptane	9.30	38.1		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	11.5	45.6		0.56	1.98	ug/m3
110-82-7	Cyclohexane	9.20	31.7		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.20	36.5		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.30	50.7		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.40	43.9		0.47	2.34	ug/m3
71-43-2	Benzene	9.40	30.0		0.29	1.60	ug/m3
107-06-2	1,2-Dichloroethane	9.60	38.9		0.36	2.02	ug/m3
79-01-6	Trichloroethene	13.0	69.9		0.11	0.16	ug/m3
108-88-3	Toluene	9.20	34.7		0.41	1.88	ug/m3
127-18-4	Tetrachloroethene	8.90	60.4		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	9.30	40.4		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	18.5	80.4		0.91	4.34	ug/m3
95-47-6	o-Xylene	9.40	40.8		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.60	47.2		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.70	47.7		0.39	2.46	ug/m3
91-20-3	Naphthalene	11.1	58.2		0.42	0.52	ug/m3
110-54-3	Hexane	9.20	32.4		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	261000		2.787			
540-36-3	1,4-Difluorobenzene	1260000		3.959			
3114-55-4	Chlorobenzene-d5	1120000		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\VL121124\
 Data File : VL041736.D
 Acq On : 11 Dec 2024 23:41
 Operator : SY/MD
 Sample : VL1211ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS02

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:40:07 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	261097	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	1256819	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	1119484	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 748643 10.173 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.700%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	573861	12.522	ppbv	99
3) Chlorodifluoromethane	1.473	51	312858	8.802	ppbv	100
4) Chloromethane	1.531	50	151976	12.496	ppbv	100
5) Vinyl Chloride	1.580	62	183614	12.327	ppbv	98
6) Bromomethane	1.667	94	109854	11.245	ppbv	98
7) Chloroethane	1.706	64	80077	12.358	ppbv	100
8) Dichlorotetrafluoroethane	1.554	85	505121	13.517	ppbv	93
9) Propene	1.483	41	140359	9.261	ppbv	100
10) Heptane	4.985	43	389580	9.298	ppbv	100
11) Trichlorofluoromethane	1.877	101	636038	12.053	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.140	101	544749	11.465	ppbv	96
13) Ethanol	1.719	45	4539	3.621	ppbv	94
14) Bromoethene	1.780	108	220586	12.666	ppbv	99
15) Acetone	1.832	43	272588	9.043	ppbv	97
16) 1,3-Butadiene	1.609	39	115584	11.430	ppbv	95
17) tert-Butyl alcohol	2.036	59	459881	10.523	ppbv	99
18) 1,1-Dichloroethene	2.036	96	249219	11.544	ppbv	93
19) Isopropyl Alcohol	1.884	45	176169	6.152	ppbv	89
20) Methylene Chloride	2.062	84	196900	10.783	ppbv	99
21) Allyl Chloride	2.098	41	191604	11.288	ppbv	97
22) trans-1,2-Dichloroethene	2.340	96	283158	11.297	ppbv	99
23) Vinyl Acetate	2.460	43	192655	10.554	ppbv	99
24) 1,1-Dichloroethane	2.408	63	390113	11.492	ppbv	99
25) Ethyl Acetate	4.985	43	389580	9.298	ppbv #	100
26) Hexane	2.829	57	373436	9.190	ppbv	97
27) Carbon Disulfide	2.153	76	482015	11.521	ppbv	99
28) Methyl tert-Butyl Ether	2.437	73	305838	10.028	ppbv	100
29) Chloroform	2.848	83	571553	9.188	ppbv	100
30) Cyclohexane	3.862	84	417800	9.155	ppbv	97
31) cis-1,2-Dichloroethene	2.722	61	345579	9.181	ppbv	100
32) 1,1,1-Trichloroethane	3.370	97	568384	9.292	ppbv	99
34) 2-Butanone	2.554	43	399186	9.071	ppbv	99
35) Carbon Tetrachloride	3.768	117	587873	10.043	ppbv	99
36) Benzene	3.661	78	924536	9.356	ppbv	99
37) 1,2-Dichloroethane	3.217	62	341701	9.572	ppbv	99
38) Trichloroethene	4.551	130	665444	12.985	ppbv	99
39) 1,2-Dichloropropane	4.315	63	299887	9.524	ppbv	99
40) 1,4-Dioxane	4.583	88	164924	8.681	ppbv #	98
41) Tetrahydrofuran	3.052	42	252295	9.514	ppbv	99
42) Bromodichloromethane	4.493	83	575114	9.979	ppbv	98
43) Methyl Methacrylate	4.881	69	336365	9.450	ppbv	99
44) 2,2,4-Trimethylpentane	4.645	57	1295064	9.415	ppbv	100
45) t-1,3-Dichloropropene	6.418	75	272243	7.839	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041736.D
 Acq On : 11 Dec 2024 23:41
 Operator : SY/MD
 Sample : VL1211ABS02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1211ABS02

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 12/13/2024
 Supervised By :Semsettin Yesilyurt 12/13/2024

Quant Time: Dec 12 13:40:07 2024

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M

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

QLast Update : Thu Dec 12 13:35:39 2024

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.606	75	393505	8.536	ppbv	99
47) 1,1,2-Trichloroethane	6.587	97	387693	9.247	ppbv	98
48) Dibromochloromethane	7.393	129	591298	9.788	ppbv	99
49) Bromoform	9.490	173	562391	9.730	ppbv	100
50) 4-Methyl-2-Pentanone	5.752	43	602605	9.548	ppbv	99
51) 2-Hexanone	7.441	43	473720	9.125	ppbv	99
52) Tetrachloroethene	8.231	164	463566	8.854	ppbv	99
53) Toluene	6.940	91	1119426	9.218	ppbv	100
54) 1,2-Dibromoethane	7.658	107	528001	9.212	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.930	131	490202	9.418	ppbv	100
57) Chlorobenzene	8.927	112	933220	9.161	ppbv	99
58) Ethyl Benzene	9.361	91	1398960	9.338	ppbv	100
59) m/p-Xylene	9.558	91	2128084m	18.536	ppbv	
60) o-Xylene	9.969	91	1073122	9.428	ppbv	99
61) Styrene	9.875	104	599403	9.540	ppbv	99
62) Isopropylbenzene	10.545	105	1695295	9.029	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.969	83	390592	5.304	ppbv	100
64) n-propylbenzene	10.995	120	510127	9.227	ppbv	97
65) tert-Butylbenzene	11.539	119	1626384	9.137	ppbv	99
66) Benzyl Chloride	10.908	91	1150559	9.014	ppbv	99
67) sec-Butylbenzene	11.775	105	2093007	9.084	ppbv	99
69) p-Isopropyltoluene	11.934	119	1823257	9.175	ppbv	99
70) n-Butylbenzene	12.290	91	1549304	9.395	ppbv	99
71) 2-Chlorotoluene	10.908	91	1150559	9.014	ppbv	98
72) 4-Ethyltoluene	11.131	105	1389535	9.454	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	1145161	9.631	ppbv	100
74) 1,2,4-Trimethylbenzene	11.545	105	1257260	9.726	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	928333	8.987	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	923709	9.054	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	883309	9.031	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	771483	9.596	ppbv	100
79) Naphthalene	13.523	128	1230885	11.125	ppbv	100
80) Naphthalene,2-methyl-	14.468	142	920550	22.997	ppbv	99
81) 1,2,4-Trichlorobenzene	13.448	180	746302	10.713	ppbv	100

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

Manual Integration Report

Sequence:	VL121124	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041719.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:44 PM	SAM	12/13/2024 1:54:20 PM	Peak Integrated by Software
VSTDICCC002	VL041720.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:41 PM	SAM	12/13/2024 1:54:23 PM	Peak Integrated by Software
VSTDICCC002	VL041720.D	Vinyl Acetate	MMDadoda	12/13/2024 1:49:41 PM	SAM	12/13/2024 1:54:23 PM	Peak Integrated by Software
VSTDICCC001	VL041721.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:39 PM	SAM	12/13/2024 1:54:25 PM	Peak Integrated by Software
VSTDICCC001	VL041721.D	t-1,3-Dichloropropene	MMDadoda	12/13/2024 1:49:39 PM	SAM	12/13/2024 1:54:25 PM	Peak Integrated by Software
VSTDICCC0.5	VL041722.D	4-Methyl-2-Pentanone	MMDadoda	12/13/2024 1:49:37 PM	SAM	12/13/2024 1:54:28 PM	Peak Integrated by Software
VSTDICCC0.5	VL041722.D	Cyclohexane	MMDadoda	12/13/2024 1:49:37 PM	SAM	12/13/2024 1:54:28 PM	Peak Integrated by Software
VSTDICCC0.5	VL041722.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:37 PM	SAM	12/13/2024 1:54:28 PM	Peak Integrated by Software
VSTDICCC0.5	VL041722.D	Propene	MMDadoda	12/13/2024 1:49:37 PM	SAM	12/13/2024 1:54:28 PM	Peak Integrated by Software
VSTDICCC0.5	VL041722.D	t-1,3-Dichloropropene	MMDadoda	12/13/2024 1:49:37 PM	SAM	12/13/2024 1:54:28 PM	Peak Integrated by Software
VSTDICCC0.1	VL041723.D	Carbon Tetrachloride	MMDadoda	12/13/2024 1:49:36 PM	SAM	12/13/2024 1:54:31 PM	Peak Integrated by Software
VSTDICCC0.03	VL041724.D	1,1,1-Trichloroethane	MMDadoda	12/13/2024 1:49:33 PM	SAM	12/13/2024 1:54:35 PM	Peak Integrated by Software
VSTDICCC0.03	VL041724.D	1,1,2,2-Tetrachloroethane	MMDadoda	12/13/2024 1:49:33 PM	SAM	12/13/2024 1:54:35 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL121124	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.03	VL041724.D	Carbon Tetrachloride	MMDadoda	12/13/2024 1:49:33 PM	SAM	12/13/2024 1:54:35 PM	Peak Integrated by Software
VSTDICC0.03	VL041724.D	Tetrachloroethene	MMDadoda	12/13/2024 1:49:33 PM	SAM	12/13/2024 1:54:35 PM	Peak Integrated by Software
VSTDICC0.03	VL041724.D	Trichloroethene	MMDadoda	12/13/2024 1:49:33 PM	SAM	12/13/2024 1:54:35 PM	Peak Integrated by Software
VSTDICC015	VL041725.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:32 PM	SAM	12/13/2024 1:54:40 PM	Peak Integrated by Software
VSTDICV010	VL041727.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:29 PM	SAM	12/13/2024 1:54:48 PM	Peak Integrated by Software
VL1211ABS02	VL041736.D	m/p-Xylene	MMDadoda	12/13/2024 1:49:12 PM	SAM	12/13/2024 1:55:15 PM	Peak Integrated by Software
P5150-02	VL041738.D	Cyclohexane	MMDadoda	12/13/2024 1:49:09 PM	SAM	12/13/2024 1:55:17 PM	Peak Integrated by Software
P5150-02	VL041738.D	Propene	MMDadoda	12/13/2024 1:49:09 PM	SAM	12/13/2024 1:55:17 PM	Peak Integrated by Software
P5150-04	VL041739.D	4-Ethyltoluene	MMDadoda	12/13/2024 1:49:06 PM	SAM	12/13/2024 1:55:19 PM	Peak Integrated by Software
P5150-04	VL041739.D	Carbon Tetrachloride	MMDadoda	12/13/2024 1:49:06 PM	SAM	12/13/2024 1:55:19 PM	Peak Integrated by Software
P5150-04	VL041739.D	Chlorodifluoromethane	MMDadoda	12/13/2024 1:49:06 PM	SAM	12/13/2024 1:55:19 PM	Peak Integrated by Software
P5150-04	VL041739.D	Propene	MMDadoda	12/13/2024 1:49:06 PM	SAM	12/13/2024 1:55:19 PM	Peak Integrated by Software
P5150-06	VL041740.D	2-Butanone	MMDadoda	12/13/2024 1:49:03 PM	SAM	12/13/2024 1:55:20 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL121124	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5150-06	VL041740.D	Chlorodifluoromethane	MMDadoda	12/13/2024 1:49:03 PM	SAM	12/13/2024 1:55:20 PM	Peak Integrated by Software
P5150-06	VL041740.D	Propene	MMDadoda	12/13/2024 1:49:03 PM	SAM	12/13/2024 1:55:20 PM	Peak Integrated by Software
P5150-03	VL041742.D	4-Ethyltoluene	MMDadoda	12/13/2024 1:48:59 PM	SAM	12/13/2024 1:55:21 PM	Peak Integrated by Software
P5150-03	VL041742.D	Carbon Tetrachloride	MMDadoda	12/13/2024 1:48:59 PM	SAM	12/13/2024 1:55:21 PM	Peak Integrated by Software
P5150-05	VL041743.D	Heptane	MMDadoda	12/13/2024 1:48:57 PM	SAM	12/13/2024 1:55:23 PM	Peak Integrated by Software
P5150-05	VL041743.D	Toluene	MMDadoda	12/13/2024 1:48:57 PM	SAM	12/13/2024 1:55:23 PM	Peak Integrated by Software
P5150-06DUP	VL041744.D	2,2,4-Trimethylpentane	MMDadoda	12/13/2024 1:48:54 PM	SAM	12/13/2024 1:55:25 PM	Peak Integrated by Software
P5150-06DUP	VL041744.D	2-Butanone	MMDadoda	12/13/2024 1:48:54 PM	SAM	12/13/2024 1:55:25 PM	Peak Integrated by Software
P5150-06DUP	VL041744.D	Propene	MMDadoda	12/13/2024 1:48:54 PM	SAM	12/13/2024 1:55:25 PM	Peak Integrated by Software
P5150-06DUP	VL041744.D	Trichloroethene	MMDadoda	12/13/2024 1:48:54 PM	SAM	12/13/2024 1:55:25 PM	Peak Integrated by Software
P5150-04DL	VL041745.D	Propene	MMDadoda	12/13/2024 1:48:48 PM	SAM	12/13/2024 1:55:26 PM	Peak Integrated by Software
P5150-04DL	VL041745.D	Tetrachloroethene	MMDadoda	12/13/2024 1:48:48 PM	SAM	12/13/2024 1:55:26 PM	Peak Integrated by Software
P5150-03DL	VL041747.D	4-Ethyltoluene	MMDadoda	12/13/2024 1:48:45 PM	SAM	12/13/2024 1:55:28 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL121124

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
P5150-03DL	VL041747.D	Trichloroethene	MMDadoda	12/13/2024 1:48:45 PM	SAM	12/13/2024 1:55:28 PM	Peak Integrated by Software
VSTDCCC010	VL041749.D	m/p-Xylene	MMDadoda	12/13/2024 1:48:39 PM	SAM	12/13/2024 1:55:31 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121124

Review By	Mahesh Dadoda	Review On	12/13/2024 1:50:07 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/13/2024 1:55:51 PM		
SubDirectory	VL121124	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121124AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2557			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560			
Internal Standard/PEM		AP2557			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041718.D	11 Dec 2024 13:38	SY/MD	Ok
2	VSTDICCC010	VL041719.D	11 Dec 2024 14:10	SY/MD	Ok,M
3	VSTDICCC002	VL041720.D	11 Dec 2024 14:43	SY/MD	Ok,M
4	VSTDICCC001	VL041721.D	11 Dec 2024 15:14	SY/MD	Ok,M
5	VSTDICCC0.5	VL041722.D	11 Dec 2024 15:46	SY/MD	Ok,M
6	VSTDICCC0.1	VL041723.D	11 Dec 2024 16:17	SY/MD	Ok,M
7	VSTDICCC0.03	VL041724.D	11 Dec 2024 16:48	SY/MD	Ok,M
8	VSTDICCC015	VL041725.D	11 Dec 2024 17:21	SY/MD	Ok,M
9	VSTDICCC002	VL041726.D	11 Dec 2024 17:54	SY/MD	Not Ok
10	VSTDICV010	VL041727.D	11 Dec 2024 18:57	SY/MD	Ok,M
11	VL1211ABL01	VL041728.D	11 Dec 2024 19:28	SY/MD	Ok
12	VL1211ABS01	VL041729.D	11 Dec 2024 19:59	SY/MD	Not Ok
13	P4368-14 0.5	VL041730.D	11 Dec 2024 20:31	SY/MD	Not Ok
14	P4368-13 0.45	VL041731.D	11 Dec 2024 21:02	SY/MD	Not Ok
15	P4368-13 0.40	VL041732.D	11 Dec 2024 21:34	SY/MD	Not Ok
16	P4368-13 0.1	VL041733.D	11 Dec 2024 22:05	SY/MD	Not Ok
17	P4368-13 0.03	VL041734.D	11 Dec 2024 22:37	SY/MD	Not Ok
18	P4368-14 0.03	VL041735.D	11 Dec 2024 23:09	SY/MD	Not Ok
19	VL1211ABS02	VL041736.D	11 Dec 2024 23:41	SY/MD	Ok,M
20	VIBLK	VL041737.D	12 Dec 2024 00:13	SY/MD	Ok
21	P5150-02	VL041738.D	12 Dec 2024 07:52	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL121124

Review By	Maresh Dadoda	Review On	12/13/2024 1:50:07 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	12/13/2024 1:55:51 PM		
SubDirectory	VL121124	HP Acquire Method	TO15AIR.M	HP Processing Method	VL121124AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2557			
Initial Calibration Stds		AP2560,AP2561,AP2562			
CCC		AP2560			
Internal Standard/PEM		AP2557			
ICV/I.BLK		AP2558			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	P5150-04	VL041739.D	12 Dec 2024 08:26	SY/MD	Dilution
23	P5150-06	VL041740.D	12 Dec 2024 08:59	SY/MD	Ok,M
24	P5150-01	VL041741.D	12 Dec 2024 09:30	SY/MD	Dilution
25	P5150-03	VL041742.D	12 Dec 2024 10:01	SY/MD	Dilution
26	P5150-05	VL041743.D	12 Dec 2024 10:32	SY/MD	Ok,M
27	P5150-06DUP	VL041744.D	12 Dec 2024 11:04	SY/MD	Ok,M
28	P5150-04DL	VL041745.D	12 Dec 2024 11:36	SY/MD	Ok,M
29	P5150-01DL	VL041746.D	12 Dec 2024 12:06	SY/MD	Ok
30	P5150-03DL	VL041747.D	12 Dec 2024 12:37	SY/MD	Ok,M
31	P5150-05	VL041748.D	12 Dec 2024 13:10	SY/MD	Not Ok
32	VSTDCCC010	VL041749.D	12 Dec 2024 13:41	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121124

Review By	Mahesh Dadoda	Review On	12/13/2024 1:50:07 PM
Supervise By	Semsettin Yesilyurt	Supervise On	12/13/2024 1:55:51 PM
SubDirectory	VL121124	HP Acquire Method	TO15AIR.M HP Processing Method VL121124AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2557
Initial Calibration Stds	AP2560,AP2561,AP2562
CCC	AP2560
Internal Standard/PEM	AP2557
ICV/I.BLK	AP2558
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041718.D	11 Dec 2024 13:38		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL041719.D	11 Dec 2024 14:10	Method failed for Comp.#13,19,80	SY/MD	Ok,M
3	VSTDICCC002	VSTDICCC002	VL041720.D	11 Dec 2024 14:43		SY/MD	Ok,M
4	VSTDICCC001	VSTDICCC001	VL041721.D	11 Dec 2024 15:14		SY/MD	Ok,M
5	VSTDICCC0.5	VSTDICCC0.5	VL041722.D	11 Dec 2024 15:46		SY/MD	Ok,M
6	VSTDICCC0.1	VSTDICCC0.1	VL041723.D	11 Dec 2024 16:17		SY/MD	Ok,M
7	VSTDICCC0.03	VSTDICCC0.03	VL041724.D	11 Dec 2024 16:48		SY/MD	Ok,M
8	VSTDICCC015	VSTDICCC015	VL041725.D	11 Dec 2024 17:21		SY/MD	Ok,M
9	VSTDICCC002	VSTDICCC002	VL041726.D	11 Dec 2024 17:54	Not used	SY/MD	Not Ok
10	VSTDICV010	ICVVL121124	VL041727.D	11 Dec 2024 18:57	ICV Failed for comp.#08,13,19,63,80	SY/MD	Ok,M
11	VL1211ABL01	VL1211ABL01	VL041728.D	11 Dec 2024 19:28		SY/MD	Ok
12	VL1211ABS01	VL1211ABS01	VL041729.D	11 Dec 2024 19:59	Recovery failed	SY/MD	Not Ok
13	P4368-14 0.5	LOQ-AIR-02-QT4-2024	VL041730.D	11 Dec 2024 20:31	Method failed	SY/MD	Not Ok
14	P4368-13 0.45	LOD-MDL-AIR-01-QT4	VL041731.D	11 Dec 2024 21:02	Method failed	SY/MD	Not Ok
15	P4368-13 0.40	LOD-MDL-AIR-01-QT4	VL041732.D	11 Dec 2024 21:34	Method failed	SY/MD	Not Ok
16	P4368-13 0.1	LOD-MDL-AIR-01-QT4	VL041733.D	11 Dec 2024 22:05	Method failed	SY/MD	Not Ok
17	P4368-13 0.03	LOD-MDL-AIR-01-QT4	VL041734.D	11 Dec 2024 22:37	Method failed	SY/MD	Not Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL121124

Review By	Maresh Dadoda	Review On	12/13/2024 1:50:07 PM
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		HP Processing Method	VL121124AIR.M
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ICV/I.BLK	AP2558		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	P4368-14 0.03	LOQ-AIR-02-QT4-2024	VL041735.D	11 Dec 2024 23:09	Method failed	SY/MD	Not Ok
19	VL1211ABS02	VL1211ABS02	VL041736.D	11 Dec 2024 23:41		SY/MD	Ok,M
20	VIBLK	VIBLK	VL041737.D	12 Dec 2024 00:13		SY/MD	Ok
21	P5150-02	IA1	VL041738.D	12 Dec 2024 07:52		SY/MD	Ok,M
22	P5150-04	IA3	VL041739.D	12 Dec 2024 08:26	Need 4X	SY/MD	Dilution
23	P5150-06	IA4	VL041740.D	12 Dec 2024 08:59		SY/MD	Ok,M
24	P5150-01	SV1	VL041741.D	12 Dec 2024 09:30	Need 40X	SY/MD	Dilution
25	P5150-03	SV3	VL041742.D	12 Dec 2024 10:01	Need 20X	SY/MD	Dilution
26	P5150-05	SV4	VL041743.D	12 Dec 2024 10:32	no sample to run straight	SY/MD	Ok,M
27	P5150-06DUP	IA4DUP	VL041744.D	12 Dec 2024 11:04		SY/MD	Ok,M
28	P5150-04DL	IA3DL	VL041745.D	12 Dec 2024 11:36		SY/MD	Ok,M
29	P5150-01DL	SV1DL	VL041746.D	12 Dec 2024 12:06		SY/MD	Ok
30	P5150-03DL	SV3DL	VL041747.D	12 Dec 2024 12:37		SY/MD	Ok,M
31	P5150-05	SV4	VL041748.D	12 Dec 2024 13:10	not match.	SY/MD	Not Ok
32	VSTDCCC010	VSTDCCC010EC	VL041749.D	12 Dec 2024 13:41		SY/MD	Ok,M

M : Manual Integration