



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2501045				Courier : F. Galdun				1 of 4 COCs								
Client ID : GFELO1 Project ID : 21-36 STOPPED WORK, FLUSHING NY				Sampler Name(s) : FRANK GILDUN				Analysis				Matrix								
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified												
				Phone Number : 646-542-3465																
				Fax Number : 973-334-1692																
				Site Details: 1123 & 1125 FLATBUSH AVE 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						
SU1	2/4/25	10:21	12:21	OVER 30	5	69	69	-30	-5.1	10616	10271	6 L	50	VL041615.D	TO-15					
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) Sut										
		Ambient	Maximum	Minimum																
Start																				
Stop																				
Pressure (Inches of Hg)										Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST. Please follow the instructions on the back of this COC.										
		Ambient	Maximum	Minimum																
Start																				
Stop																				
Special Instructions/QC Requirements & Comments :																				
Suspected Contamination: High Medium Low PID Readings: 0.0																				
Sampling site (State):																				
Quick Connector required : NO																				
Canisters Shipped by: Sgt				Date/Time: 01/28/25				Canisters Received by: SA				Date/Time: 2/5/25 1200				B2501045 - 3				
Samples Relinquished by: Sgt				Date/Time: 2/5/25				Received by:				Date/Time:								
Relinquished by:				Date/Time:				Received by:				Date/Time:								

Client Contact Information						Bottle Order ID : B2501045				Courier : F. Galdun				<u>2</u> of <u>4</u> COCs															
Client ID : GFEL01 Project ID : 2126 Utopia Parkway, Flushing NY						Sampler Name(s) FRANK Galdun				Analysis				Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :						Project Manager : FRANK Galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																			
						Phone Number : 646-542-3465																							
						Fax Number : 973-334-1692																							
						Site Details: 1123 & 1125 Flatbush Ave BROOKLYN, NY																							
Analysis Turnaround Time 5 DAY						Standard : 10 business days OR				Data Package Type :																			
Rush (Specify): 5 Days						EDD Type :																							
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SV2	2/4/05	10:29	12:29	30		69	65	-30	-6.2	10502	10285	6 L	50	VL041615.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 ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
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	Ambient	Maximum	Minimum																										
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Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium Low PID Readings: 0.0 Sampling site (State):																													
Quick Connector required : NO										B2501045 - 5																			
Canisters Shipped by: Sam				Date/Time: 01/28/25				Canisters Received by: Sam										Date/Time: 2/5/25 1200											
Samples Relinquished by: Sam				Date/Time: 2/5/25				Received by:										Date/Time:											
Relinquished by:				Date/Time:				Received by:										Date/Time:											

Client Contact Information				Bottle Order ID : B2501045				Courier : FGALDUN				3 of 4 COCs					
Client ID : GFEL01 Project ID : 21-36 Utom Parkway, Flushing NY				Sampler Name(s) : FRANK GILDUN				Analysis				Matrix					
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 1123 & 1125 Flatbush Ave BROOKLYN, NY													
Analysis Turnaround Time 5 DAY				Standard : 10 Business days OR				Data Package Type : RESULTS ONLY									
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IA1	4/25	10:13	12:13	30	3.5	65	65	-30	-4.5	10185	10275	6 L	50	VL041615.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
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		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium <u>Low</u> PID Readings: 0, 0																	
Sampling site (State):																	
Quick Connector required :																	
Canisters Shipped by: [Signature]				Date/Time: 4/28/25				Canisters Received by: [Signature]				Date/Time: 4/25/200				B2501045 - 4	
Samples Relinquished by: [Signature]				Date/Time: 4/25/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2501045				Courier : FGALDUN				9 of 4 COCs																												
Client ID : GFEL01 Project ID : 21-38 Utopia Parkway, Bushing NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																												
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																																
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				Fax Number : 973-334-1692																																				
				Site Details: 1123 & 1125 Flatbush Ave Brooklyn, NY																																				
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Canisters Shipped by: <u>Sam</u>				Date/Time: <u>4/27/25</u>				Canisters Received by: <u>Sam</u>				Date/Time: <u>2/5/25, 200</u>																												
Samples Relinquished by: <u>Sam</u>				Date/Time: <u>4/25/25</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

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cis-1,2-DCE

1,1,1-TCA

1,2-DCE

1,1-DCE

Vinyl chloride

Benzene

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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>		
NAME	Title: <u>Sample Custodian</u>		
Field Sample Seal No. <u>Q1303</u>	Date Broken <u>2/5/2025</u>		
Case No.: <u>1123 & 1125 Flatbush Ave</u>	Analytical Parameter/Fraction <u>OCMS Group2</u>		
	Military Time Seal Broken: <u>12:00:00</u>		

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1303-01	SV1		
Q1303-02	SV2		
Q1303-03	IA1		
Q1303-04	IA2		

Date	Time	Relinquished By		Received By	Purpose of Change of Custody
2/5	1350	Signature		Signature 	
		Printed Name	<u>Paul N.</u>	Printed Name <u>Anthony J. C. G. S. C.</u>	
		Signature		Signature	
		Printed Name		Printed Name	
		Signature		Signature	
		Printed Name		Printed Name	
		Signature		Signature	
		Printed Name		Printed Name	
		Signature		Signature	
		Printed Name		Printed Name	
		Signature		Signature	
		Printed Name		Printed Name	
		Signature		Signature	
		Printed Name		Printed Name	

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q1303	OrderDate:	2/5/2025 1:24:00 PM
Client:	GFE LLC	Project:	1123 & 1125 Flatbush Ave Brooklyn, NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1303-01	SV1	Air	VOCMS Group2	TO-15	02/04/25		02/10/25	02/05/25
Q1303-02	SV2	Air	VOCMS Group2	TO-15	02/04/25		02/10/25	02/05/25
Q1303-03	IA1	Air	VOCMS Group2	TO-15	02/04/25		02/10/25	02/05/25
Q1303-04	IA2	Air	VOCMS Group2	TO-15	02/04/25		02/10/25	02/05/25

Hit Summary Sheet
SW-846

SDG No.: Q1303
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1303-01	SV1	Air	Heptane	3.85	J	1.80	8.20	ug/m3
Q1303-01	SV1	Air	Toluene	7.16	J	1.66	7.54	ug/m3
Q1303-01	SV1	Air	Tetrachloroethene	6.78		0.41	0.81	ug/m3
Q1303-01	SV1	Air	Ethyl Benzene	4.78	J	2.08	8.69	ug/m3
Q1303-01	SV1	Air	m/p-Xylene	13.5	J	3.65	17.4	ug/m3
Q1303-01	SV1	Air	o-Xylene	6.95	J	2.08	8.69	ug/m3
Q1303-01	SV1	Air	1,3,5-Trimethylbenzene	6.88	J	2.16	9.83	ug/m3
Q1303-01	SV1	Air	1,2,4-Trimethylbenzene	16.2		1.52	9.83	ug/m3
Q1303-01	SV1	Air	Hexane	17.3		1.55	7.05	ug/m3
			Total Voc :	83.4				
			Total Concentration:	83.4				
Client ID:	SV2							
Q1303-02	SV2	Air	Heptane	42.6		1.80	8.20	ug/m3
Q1303-02	SV2	Air	Cyclohexane	4.13	J	3.03	6.88	ug/m3
Q1303-02	SV2	Air	Trichloroethene	1.02		0.38	0.64	ug/m3
Q1303-02	SV2	Air	Toluene	84.8		1.66	7.54	ug/m3
Q1303-02	SV2	Air	Tetrachloroethene	20.3		0.41	0.81	ug/m3
Q1303-02	SV2	Air	Ethyl Benzene	65.6		2.08	8.69	ug/m3
Q1303-02	SV2	Air	m/p-Xylene	161		3.65	17.4	ug/m3
Q1303-02	SV2	Air	o-Xylene	77.8		2.08	8.69	ug/m3
Q1303-02	SV2	Air	1,3,5-Trimethylbenzene	79.2		2.16	9.83	ug/m3
Q1303-02	SV2	Air	1,2,4-Trimethylbenzene	206		1.52	9.83	ug/m3
Q1303-02	SV2	Air	Hexane	167		1.55	7.05	ug/m3
			Total Voc :	909				
			Total Concentration:	909				
Client ID:	IA1							
Q1303-03	IA1	Air	Benzene	1.31	J	0.29	1.60	ug/m3
Q1303-03	IA1	Air	Trichloroethene	0.16		0.11	0.16	ug/m3
Q1303-03	IA1	Air	Toluene	4.52		0.41	1.88	ug/m3
Q1303-03	IA1	Air	Tetrachloroethene	10.2		0.14	0.20	ug/m3
Q1303-03	IA1	Air	m/p-Xylene	1.35	J	0.91	4.34	ug/m3
Q1303-03	IA1	Air	o-Xylene	0.61	J	0.52	2.17	ug/m3
			Total Voc :	18.1				
			Total Concentration:	18.1				
Client ID:	IA2							
Q1303-04	IA2	Air	Heptane	1.56	J	0.45	2.05	ug/m3
Q1303-04	IA2	Air	2,2,4-Trimethylpentane	0.70	J	0.47	2.34	ug/m3

Hit Summary Sheet
SW-846

SDG No.: Q1303

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Q1303-04	IA2	Air	Benzene	1.28	J	0.29	1.60	ug/m3
Q1303-04	IA2	Air	Toluene	2.79		0.41	1.88	ug/m3
Q1303-04	IA2	Air	Tetrachloroethene	5.02		0.14	0.20	ug/m3
Q1303-04	IA2	Air	m/p-Xylene	1.26	J	0.91	4.34	ug/m3
Q1303-04	IA2	Air	o-Xylene	0.52	J	0.52	2.17	ug/m3
Total Voc :				13.1				
Total Concentration:				13.1				



QC SUMMARY

Surrogate Summary

SDG No.: Q1303

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1303-01	SV1	1-Bromo-4-Fluorobenzene	10	9.55	96	65	135
Q1303-02	SV2	1-Bromo-4-Fluorobenzene	10	9.00	90	65	135
Q1303-03	IA1	1-Bromo-4-Fluorobenzene	10	9.36	94	65	135
Q1303-03DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.29	93	65	135
Q1303-04	IA2	1-Bromo-4-Fluorobenzene	10	9.40	94	65	135
VL0210ABL01	VL0210ABL01	1-Bromo-4-Fluorobenzene	10	9.32	93	65	135
VL0210ABS01	VL0210ABS01	1-Bromo-4-Fluorobenzene	10	9.60	96	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1303

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL041979.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0210ABS01	Vinyl Chloride	10	10.7	ppbv	107			70	130	
	Heptane	10	11.5	ppbv	115			70	130	
	1,1-Dichloroethene	10	9.50	ppbv	95			70	130	
	Cyclohexane	10	10.6	ppbv	106			70	130	
	cis-1,2-Dichloroethene	10	10.1	ppbv	101			70	130	
	1,1,1-Trichloroethane	10	10.4	ppbv	104			70	130	
	2,2,4-Trimethylpentane	10	12.2	ppbv	122			70	130	
	Benzene	10	11.7	ppbv	117			70	130	
	Trichloroethene	10	11.4	ppbv	114			70	130	
	Toluene	10	11.6	ppbv	116			70	130	
	1,2-Dibromoethane	10	11.8	ppbv	118			70	130	
	Tetrachloroethene	10	10.7	ppbv	107			70	130	
	Ethyl Benzene	10	11.8	ppbv	118			70	130	
	m/p-Xylene	20	24.3	ppbv	121			70	130	
	o-Xylene	10	12.2	ppbv	122			70	130	
	1,3,5-Trimethylbenzene	10	11.9	ppbv	119			70	130	
	1,2,4-Trimethylbenzene	10	12.2	ppbv	122			70	130	
	Naphthalene	10	10.6	ppbv	106			70	130	
	Hexane	10	11.2	ppbv	112			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1303-03DUP	Q1303-03
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL041990.D	VL041989.D
Anal Date & Time :	02/10/2025 16:17	02/10/2025 15:43

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	0	0	0
1,2-Dibromoethane	0	0	0
1,3,5-Trimethylbenzene	0	0	0
2,2,4-Trimethylpentane	0	0	0
Benzene	0.41	0.41	0
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0	0	0
Ethyl Benzene	0.1	0	200 *
Heptane	0	0	0
Hexane	0	0	0
m/p-Xylene	0.29	0.31	6.7
Naphthalene	0	0	0
o-Xylene	0.13	0.14	7.4
Tetrachloroethene	1.6	1.5	6.5
Toluene	1.1	1.2	8.7
Trichloroethene	0.04	0.03	28.6 *
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1303

SAS No.: Q1303 SDG NO.: Q1303

Lab File ID: VL041990.D

Lab Sample ID: Q1303-03DUP

Date Analyzed: 02/10/2025

Time Analyzed: 16:17

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
IA1DUP	Q1303-03DUP	VL041990.D	02/10/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0210ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1303

SAS No.: Q1303 SDG NO.: Q1303

Lab File ID: VL041978.D

Lab Sample ID: VL0210ABL01

Date Analyzed: 02/10/2025

Time Analyzed: 09:24

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
VL0210ABS01	VL0210ABS01	VL041979.D	02/10/2025
SV1	Q1303-01	VL041985.D	02/10/2025
SV2	Q1303-02	VL041987.D	02/10/2025
IA1	Q1303-03	VL041989.D	02/10/2025
IA2	Q1303-04	VL041991.D	02/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1303 SAS No.: Q1303 SDG NO.: Q1303
Lab File ID: VL041887.D BFB Injection Date: 01/14/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:50
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23
75	30.0 - 66.0% of mass 95	56.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	60
175	4.0 - 9.0% of mass 174	4.9 (8.2) 1
176	93.0 - 101.0% of mass 174	58.1 (96.8) 1
177	5.0 - 9.0% of mass 176	3.9 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041889.D	01/14/2025	12:55
VSTDICCC002	VSTDICCC002	VL041890.D	01/14/2025	13:28
VSTDICCC001	VSTDICCC001	VL041891.D	01/14/2025	13:59
VSTDICCC0.5	VSTDICCC0.5	VL041892.D	01/14/2025	14:30
VSTDICCC0.1	VSTDICCC0.1	VL041893.D	01/14/2025	15:01
VSTDICCC0.03	VSTDICCC0.03	VL041894.D	01/14/2025	15:32
VSTDICCC015	VSTDICCC015	VL041895.D	01/14/2025	16:05

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1303 SAS No.: Q1303 SDG NO.: Q1303
Lab File ID: VL041976.D BFB Injection Date: 02/10/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:49
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.4
75	30.0 - 66.0% of mass 95	55.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 120.0% of mass 95	60.5
175	4.0 - 9.0% of mass 174	4.6 (7.6) 1
176	93.0 - 101.0% of mass 174	56.3 (93) 1
177	5.0 - 9.0% of mass 176	3.7 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL041977.D	02/10/2025	08:32
VL0210ABL01	VL0210ABL01	VL041978.D	02/10/2025	09:24
VL0210ABS01	VL0210ABS01	VL041979.D	02/10/2025	10:08
SV1	Q1303-01	VL041985.D	02/10/2025	13:37
SV2	Q1303-02	VL041987.D	02/10/2025	14:39
IA1	Q1303-03	VL041989.D	02/10/2025	15:43
IA1DUP	Q1303-03DUP	VL041990.D	02/10/2025	16:17
IA2	Q1303-04	VL041991.D	02/10/2025	16:50

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1303 SAS No.: Q1303 SDG NO.: Q1303
 Lab File ID: VL041977.D Date Analyzed: 02/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:32
 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	154218	2.78	410131	3.95	354638	8.87
UPPER LIMIT	215905	3.11	574183	4.28	496493	9.20
LOWER LIMIT	92530.8	2.45	246079	3.62	212783	8.54
EPA SAMPLE NO.						
SV1	150888	2.78	423784	3.96	380638	8.88
SV2	150085	2.78	415477	3.95	373160	8.88
IA1	143881	2.78	411385	3.95	350508	8.88
IA1DUP	140524	2.78	401797	3.96	348109	8.88
IA2	137412	2.78	391979	3.95	332286	8.88
VL0210ABL01	155942	2.78	417063	3.95	341669	8.88
VL0210ABS01	152077	2.78	414040	3.95	360498	8.88

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

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

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	02/04/25
Project:	1123 & 1125 Flatbush Ave Brooklyn, NY	Date Received:	02/05/25
Client Sample ID:	SV1	SDG No.:	Q1303
Lab Sample ID:	Q1303-01	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
VL041985.D	4		02/10/25 13:37	VL021025

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	0.94	3.85	J	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
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
108-88-3	Toluene	1.90	7.16	J	1.66	7.54	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	1.00	6.78		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	1.10	4.78	J	2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	3.10	13.5	J	3.65	17.4	ug/m3
95-47-6	o-Xylene	1.60	6.95	J	2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.40	6.88	J	2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	3.30	16.2		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	4.90	17.3		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	151000			2.784		
540-36-3	1,4-Difluorobenzene	424000			3.955		
3114-55-4	Chlorobenzene-d5	381000			8.878		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041985.D
 Acq On : 10 Feb 2025 13:37
 Operator : SY/MD
 Sample : Q1303-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:22:53 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	150888	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.955	114	423784	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.878	117	380638	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	286452	9.555	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	2752m	0.134	ppbv	
9) Propene	1.486	41	2135	0.241	ppbv	93
10) Heptane	4.972	43	5580m	0.235	ppbv	
13) Ethanol	1.719	45	10429	16.053	ppbv	92
15) Acetone	1.835	43	80024	4.416	ppbv	100
19) Isopropyl Alcohol	1.884	45	27063	2.519	ppbv #	43
20) Methylene Chloride	2.059	84	2073	0.289	ppbv #	89
26) Hexane	2.826	57	23895	1.236	ppbv #	40
34) 2-Butanone	2.557	43	8531	0.317	ppbv	99
52) Tetrachloroethene	8.225	164	3414m	0.253	ppbv	
53) Toluene	6.930	91	20117	0.475	ppbv	96
58) Ethyl Benzene	9.348	91	16584	0.279	ppbv	89
59) m/p-Xylene	9.529	91	36692	0.770	ppbv	96
60) o-Xylene	9.959	91	19058	0.403	ppbv	95
62) Isopropylbenzene	10.539	105	30334	0.414	ppbv	98
64) n-propylbenzene	10.985	120	4948	0.267	ppbv	95
65) tert-Butylbenzene	11.536	119	6348	0.095	ppbv #	44
73) 1,3,5-Trimethylbenzene	11.199	105	17918	0.358	ppbv	95
74) 1,2,4-Trimethylbenzene	11.532	105	44833	0.828	ppbv #	55

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041985.D
Acq On : 10 Feb 2025 13:37
Operator : SY/MD
Sample : Q1303-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

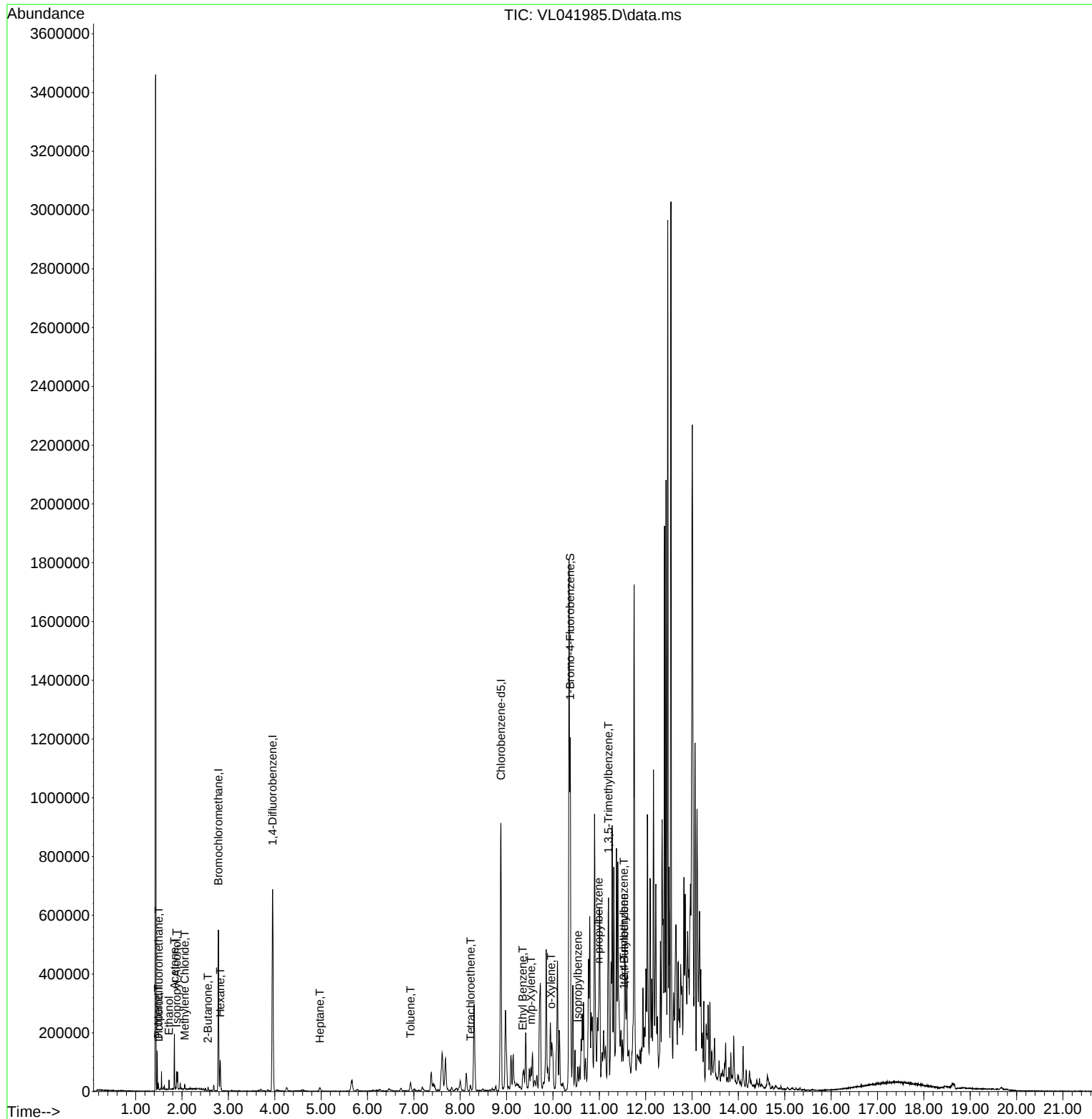
Quant Time: Feb 11 01:22:53 2025

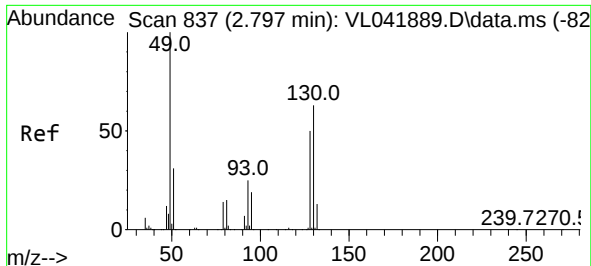
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

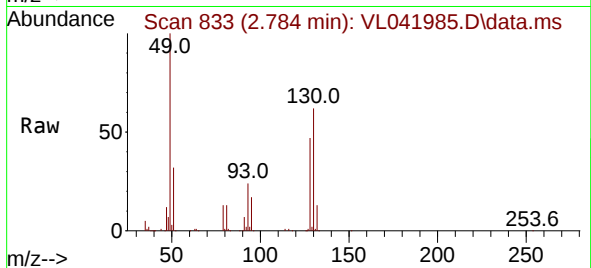
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

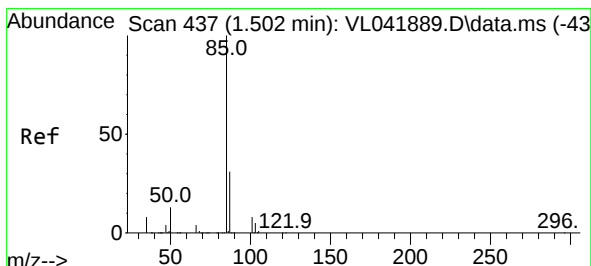
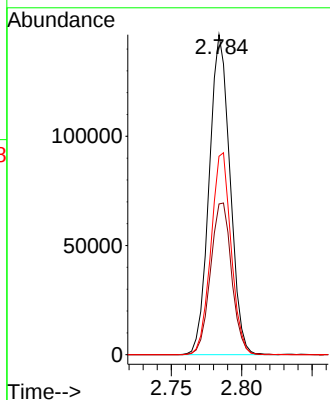
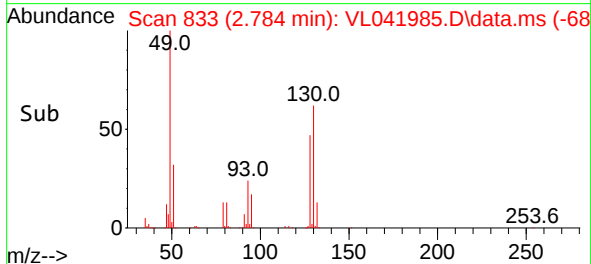
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 15088
Ion Ratio Lower Upper
49 100
128 48.2 24.3 73.0
130 61.1 31.1 93.2

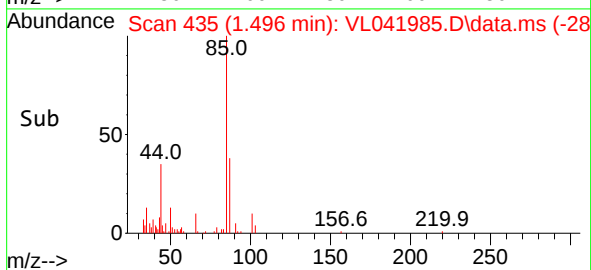
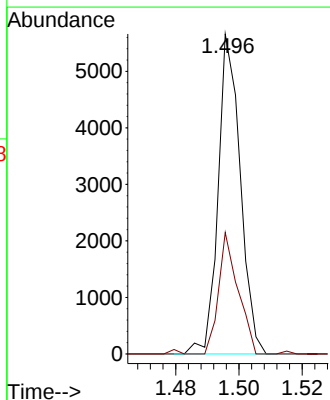
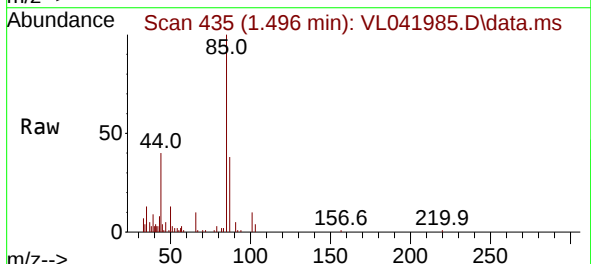
Manual Integrations
APPROVED

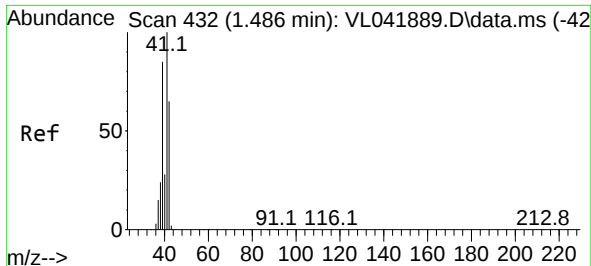
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.134 ppbv m
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

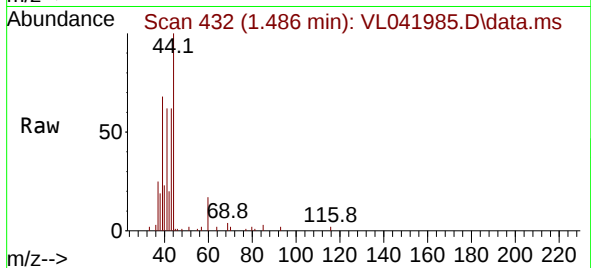
Tgt Ion: 85 Resp: 2752
Ion Ratio Lower Upper
85 100
87 37.9 24.9 37.3#





#9
 Propene
 Concen: 0.241 ppbv
 RT: 1.486 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL041985.D
 Acq: 10 Feb 2025 13:37

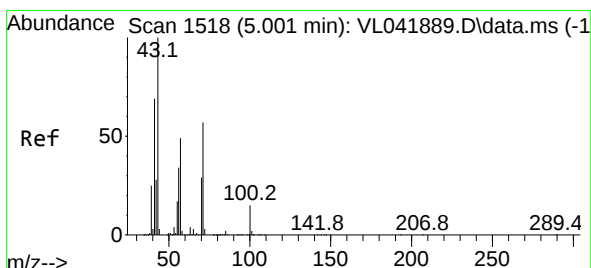
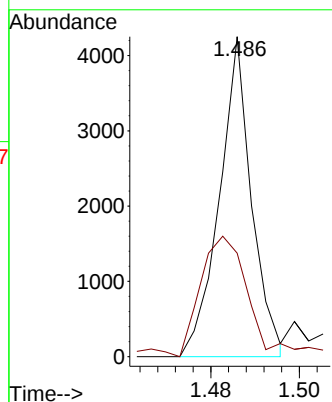
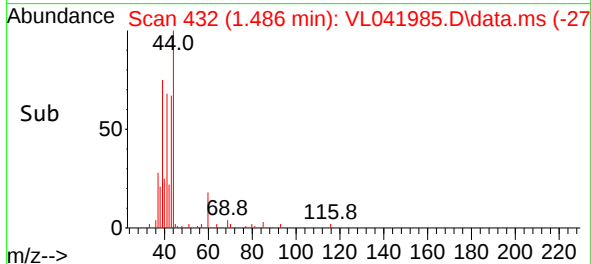
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



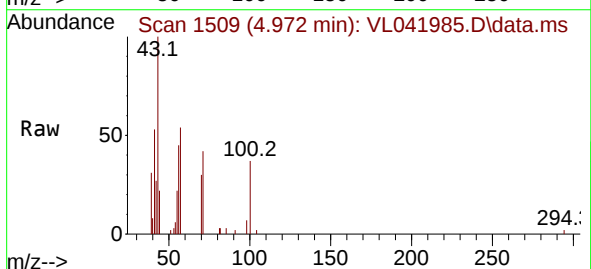
Tgt Ion: 41 Resp: 213
 Ion Ratio Lower Upper
 41 100
 42 59.8 52.0 78.0

Manual Integrations
 APPROVED

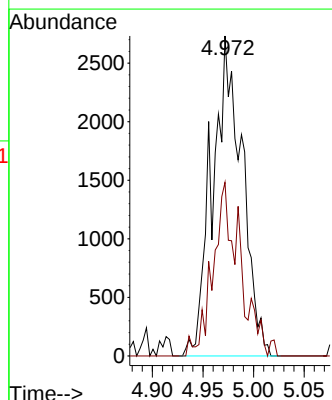
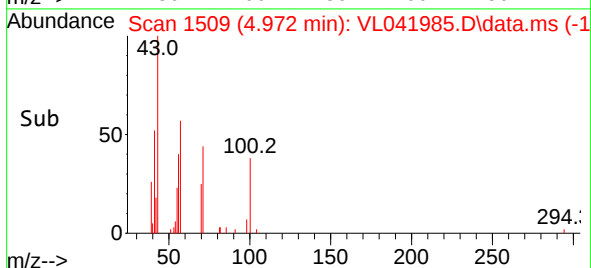
Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

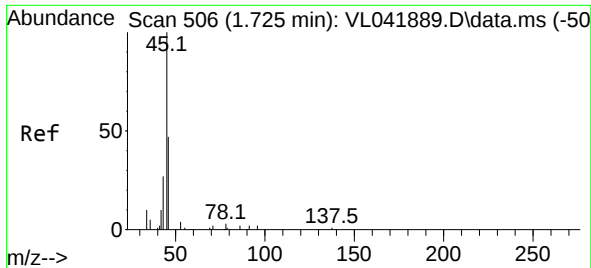


#10
 Heptane
 Concen: 0.235 ppbv m
 RT: 4.972 min Scan# 1509
 Delta R.T. -0.029 min
 Lab File: VL041985.D
 Acq: 10 Feb 2025 13:37



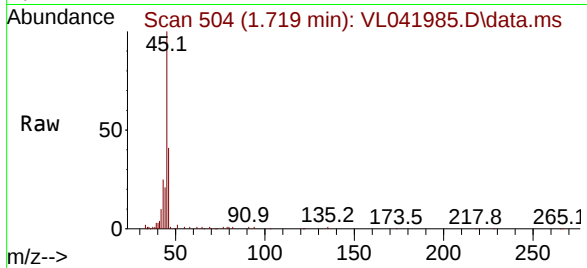
Tgt Ion: 43 Resp: 5580
 Ion Ratio Lower Upper
 43 100
 57 49.7 41.0 61.4





#13
Ethanol
Concen: 16.053 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

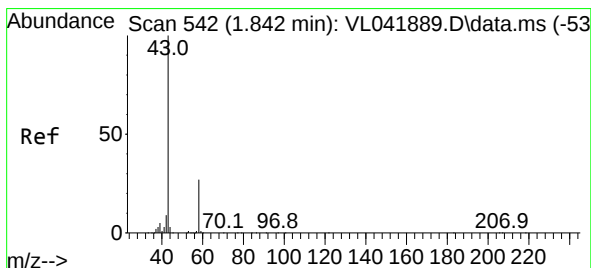
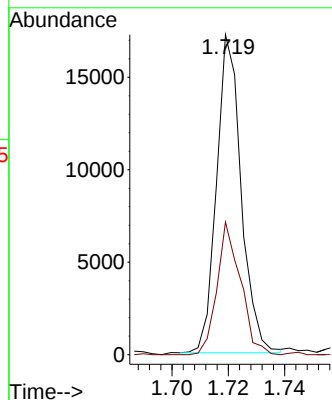
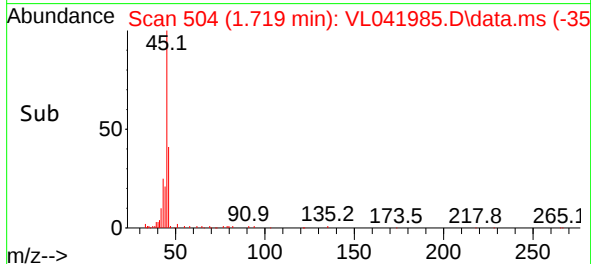
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 45 Resp: 10429
Ion Ratio Lower Upper
45 100
46 40.1 18.1 72.5

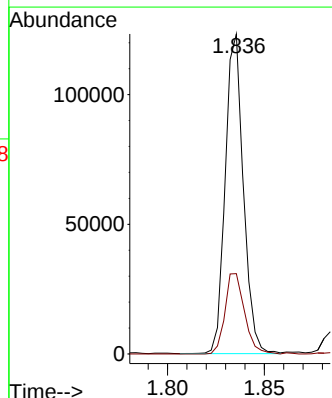
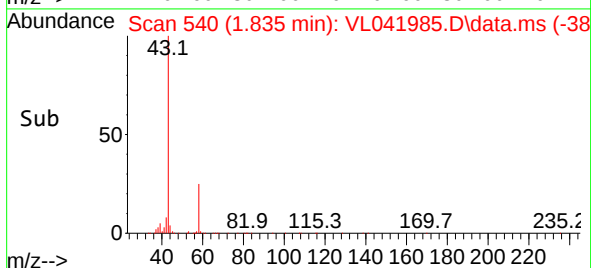
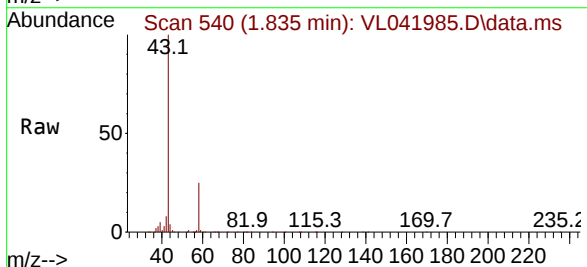
Manual Integrations
APPROVED

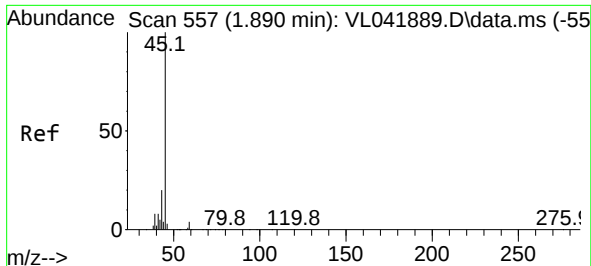
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#15
Acetone
Concen: 4.416 ppbv
RT: 1.835 min Scan# 540
Delta R.T. -0.006 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

Tgt Ion: 43 Resp: 80024
Ion Ratio Lower Upper
43 100
58 27.3 21.9 32.9





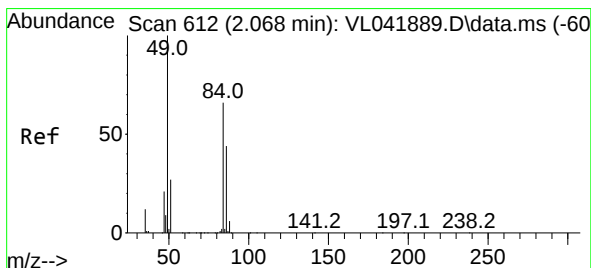
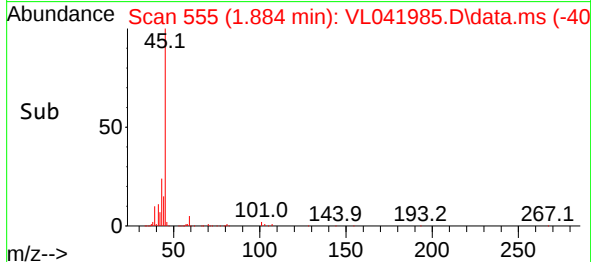
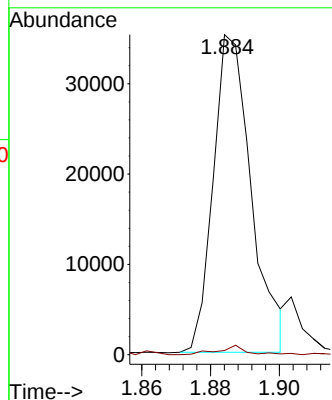
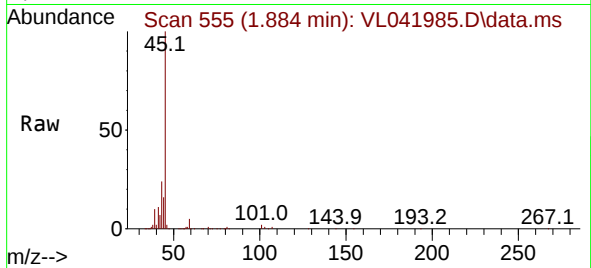
#19
Isopropyl Alcohol
Concen: 2.519 ppbv
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 45 Resp: 2706
Ion Ratio Lower Upper
45 100
58 80.8 35.0 52.6

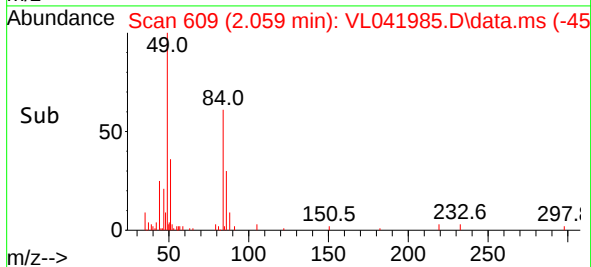
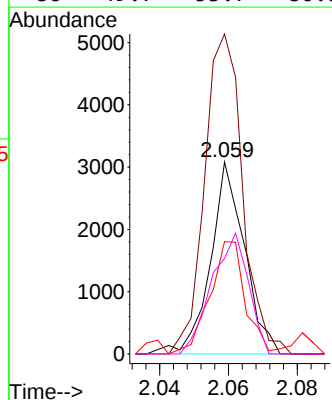
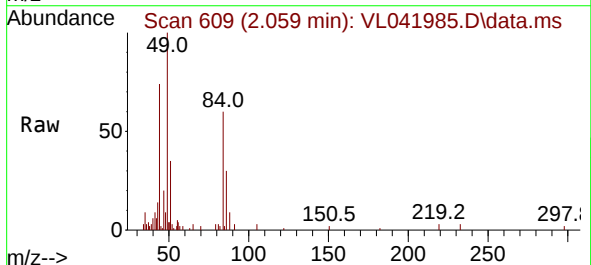
Manual Integrations
APPROVED

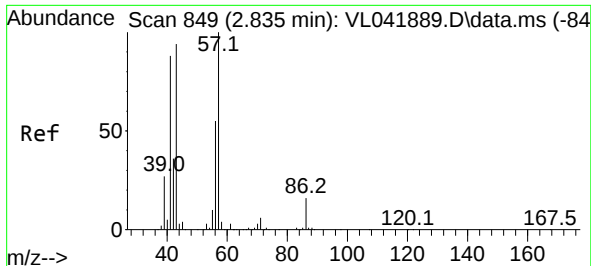
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 0.289 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

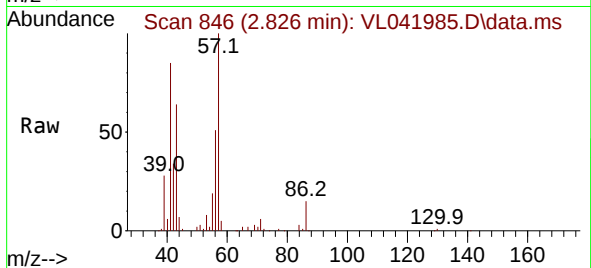
Tgt Ion: 84 Resp: 2073
Ion Ratio Lower Upper
84 100
49 160.0 123.1 184.7
51 56.0 35.8 53.8#
86 49.7 53.7 80.5#





#26
Hexane
Concen: 1.236 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

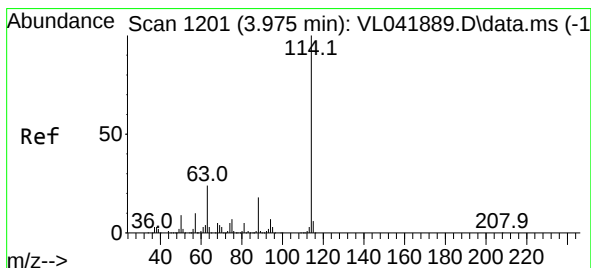
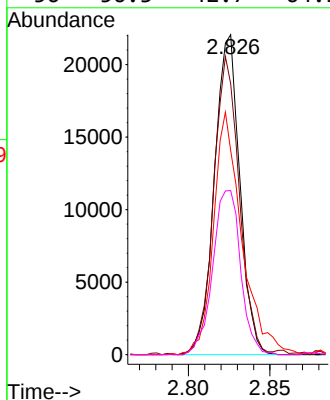
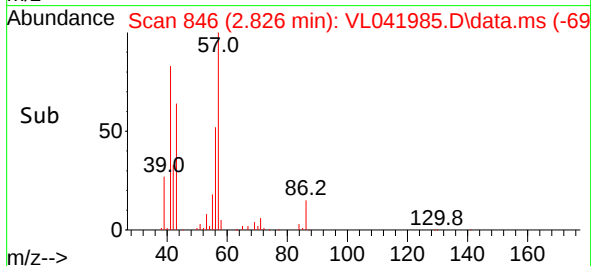
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 57 Resp: 2389
Ion Ratio Lower Upper
57 100
41 96.6 73.8 110.8
43 85.3 197.3 295.9
56 56.3 42.7 64.1

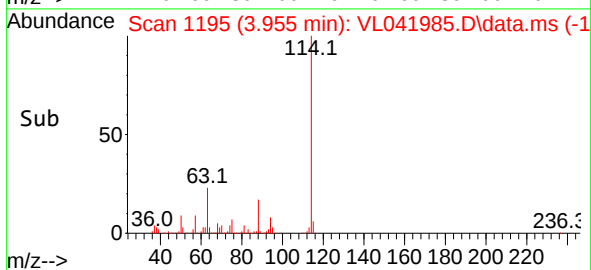
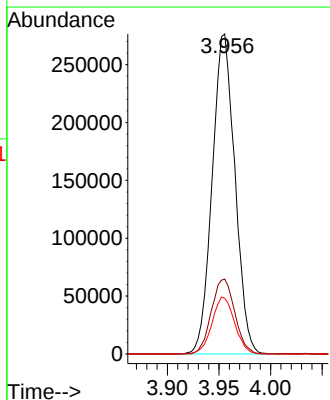
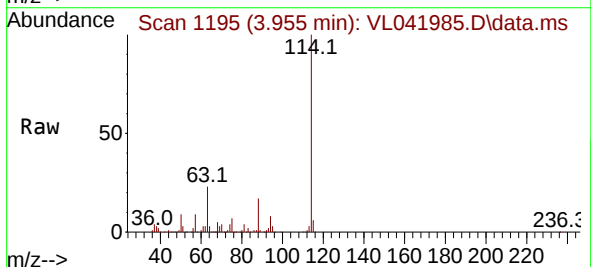
Manual Integrations
APPROVED

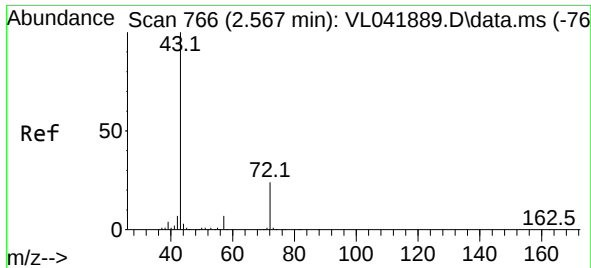
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.019 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

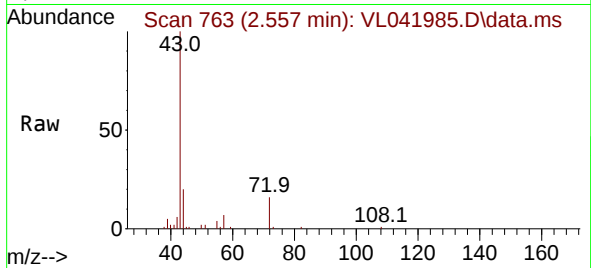
Tgt Ion:114 Resp: 423784
Ion Ratio Lower Upper
114 100
63 24.1 19.8 29.6
88 17.6 14.4 21.6





#34
2-Butanone
Concen: 0.317 ppbv
RT: 2.557 min Scan# 763
Delta R.T. -0.010 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

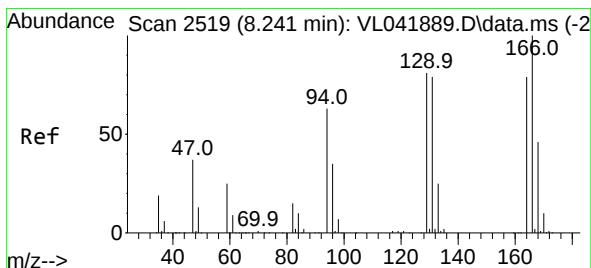
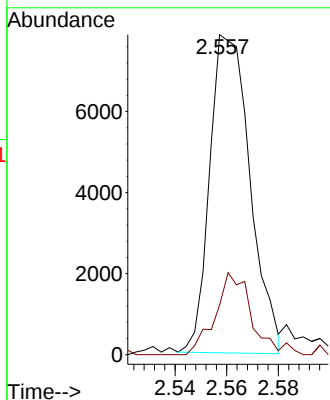
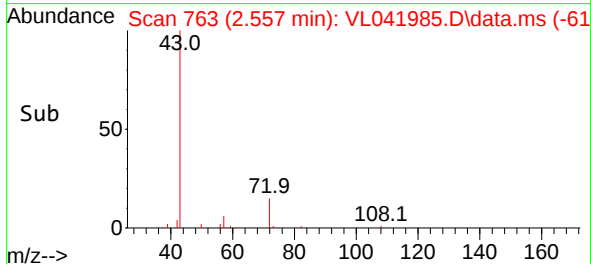
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 853
Ion Ratio Lower Upper
43 100
72 23.8 18.6 28.0

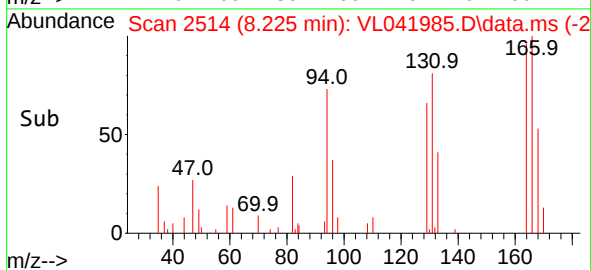
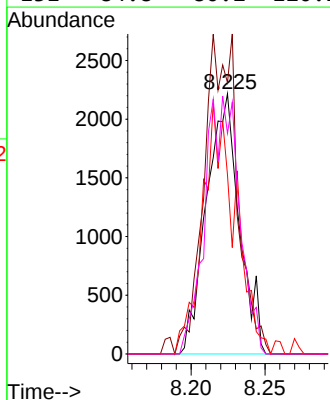
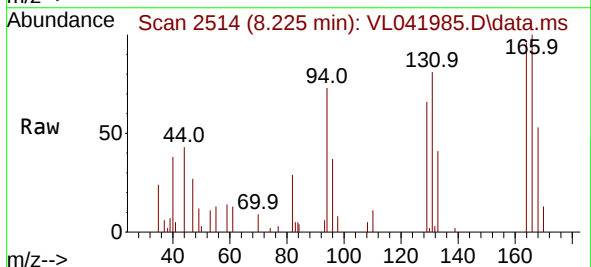
Manual Integrations
APPROVED

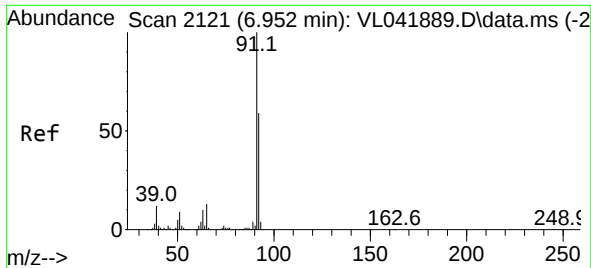
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Tetrachloroethene
Concen: 0.253 ppbv m
RT: 8.225 min Scan# 2514
Delta R.T. -0.016 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

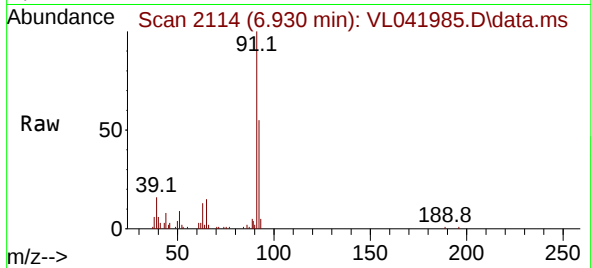
Tgt Ion:164 Resp: 3414
Ion Ratio Lower Upper
164 100
166 104.3 100.8 151.2
129 68.9 82.0 123.0#
131 84.8 80.2 120.2





#53
Toluene
Concen: 0.475 ppbv
RT: 6.930 min Scan# 2114
Delta R.T. -0.023 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

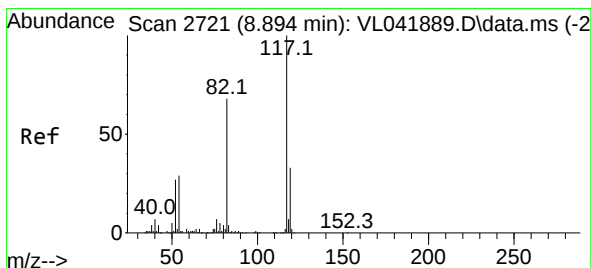
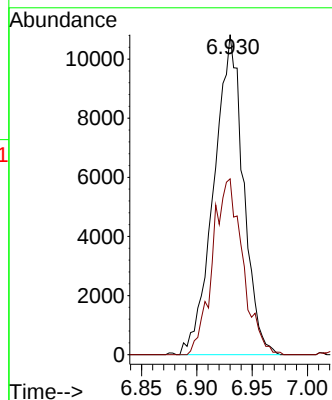
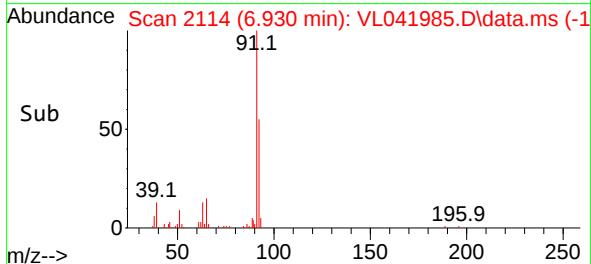
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 2011
Ion Ratio Lower Upper
91 100
92 55.9 47.4 71.0

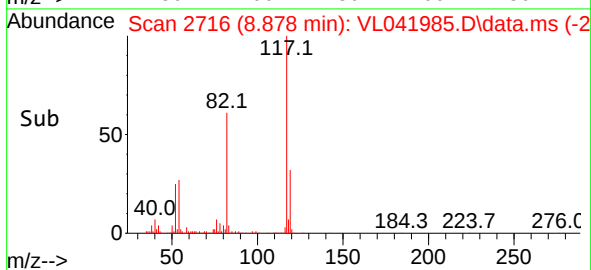
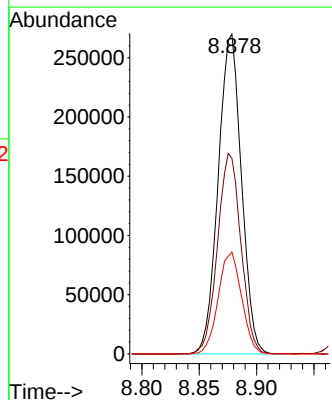
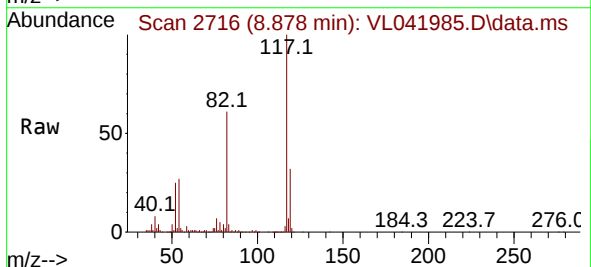
Manual Integrations
APPROVED

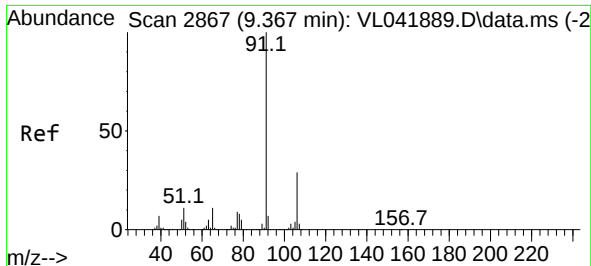
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.016 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

Tgt Ion:117 Resp: 380638
Ion Ratio Lower Upper
117 100
82 63.2 54.2 81.4
119 32.1 25.0 37.6





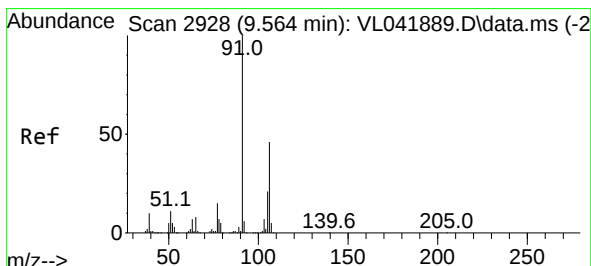
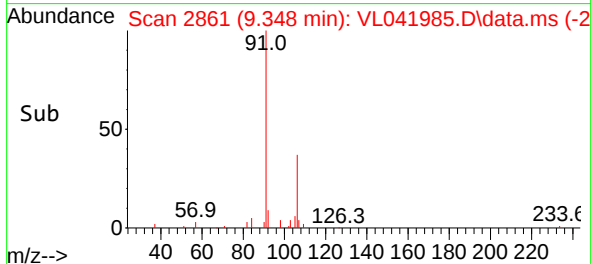
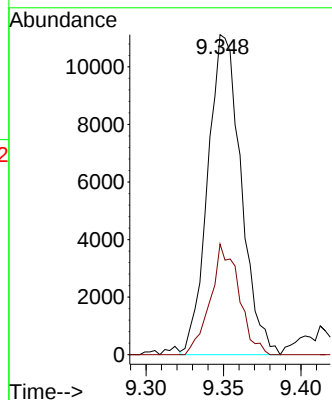
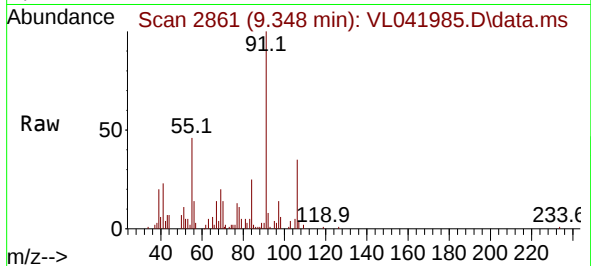
#58
Ethyl Benzene
Concen: 0.279 ppbv
RT: 9.348 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 16584
Ion Ratio Lower Upper
91 100
106 34.6 23.1 34.7

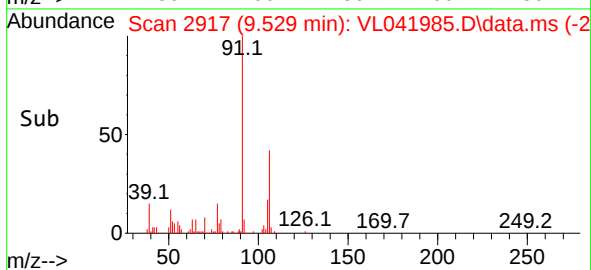
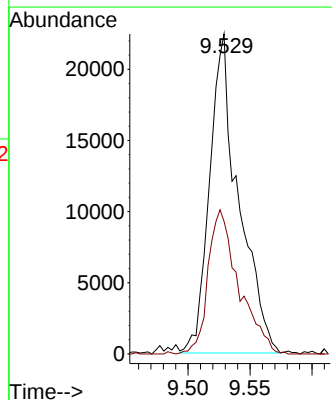
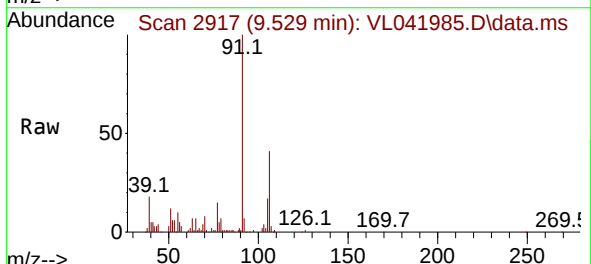
Manual Integrations
APPROVED

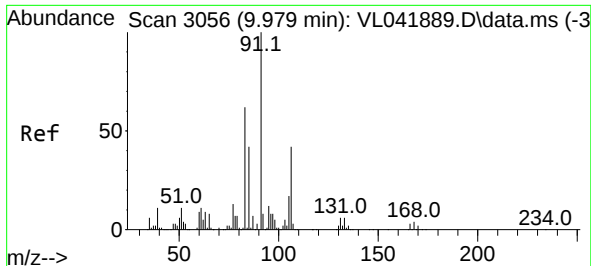
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#59
m/p-Xylene
Concen: 0.770 ppbv
RT: 9.529 min Scan# 2917
Delta R.T. -0.035 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

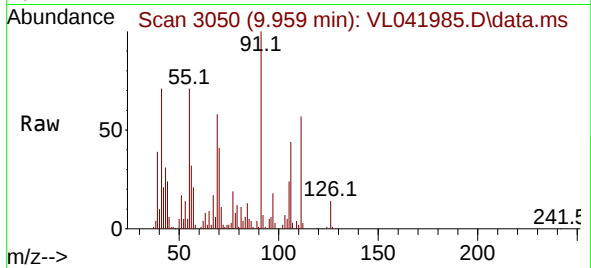
Tgt Ion: 91 Resp: 36692
Ion Ratio Lower Upper
91 100
106 47.9 36.0 54.0





#60
o-Xylene
Concen: 0.403 ppbv
RT: 9.959 min Scan# 3056
Delta R.T. -0.019 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

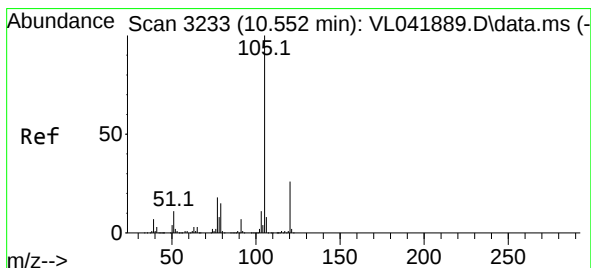
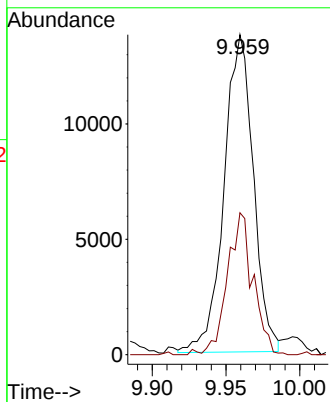
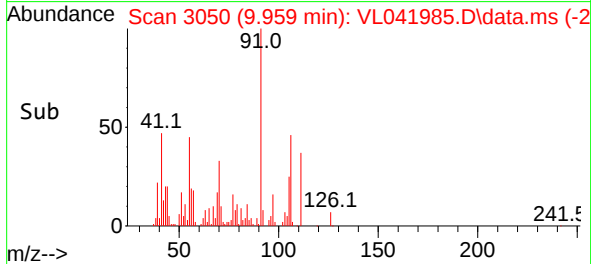
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 91 Resp: 19058
Ion Ratio Lower Upper
91 100
106 39.3 21.3 63.9

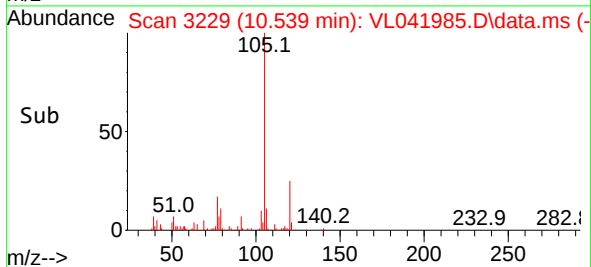
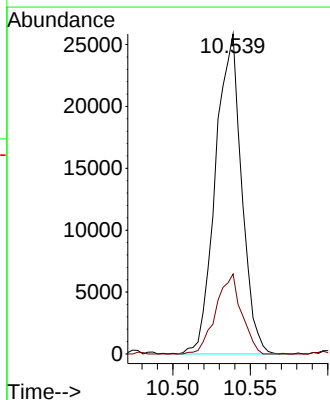
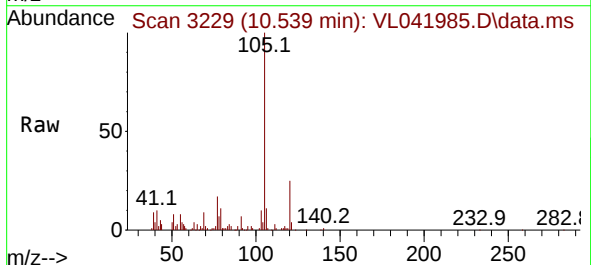
Manual Integrations
APPROVED

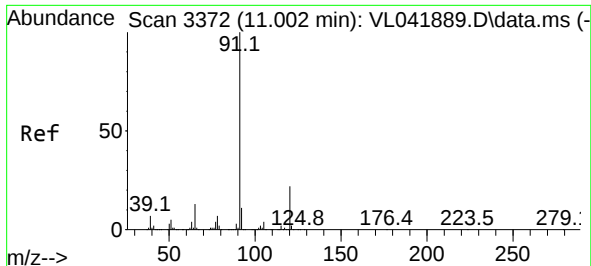
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
Isopropylbenzene
Concen: 0.414 ppbv
RT: 10.539 min Scan# 3229
Delta R.T. -0.013 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

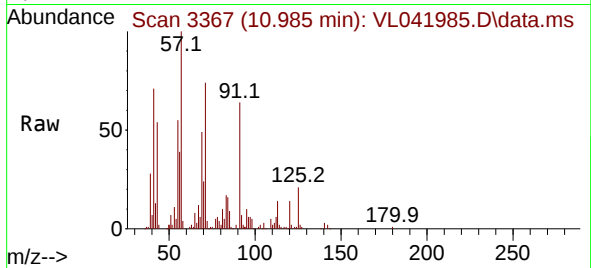
Tgt Ion:105 Resp: 30334
Ion Ratio Lower Upper
105 100
120 24.4 20.3 30.5





#64
n-propylbenzene
Concen: 0.267 ppbv
RT: 10.985 min Scan# 31
Delta R.T. -0.016 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

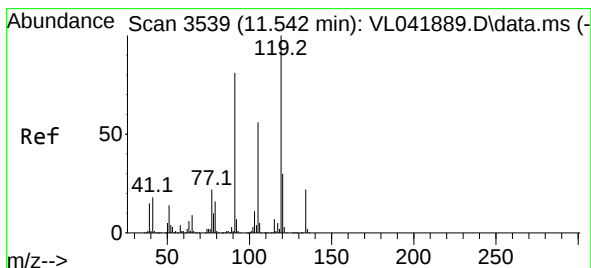
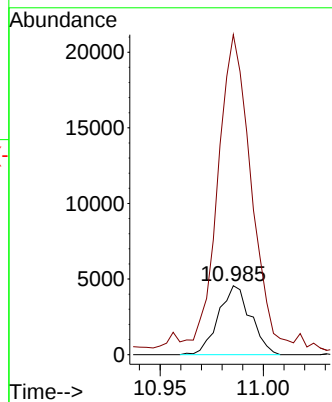
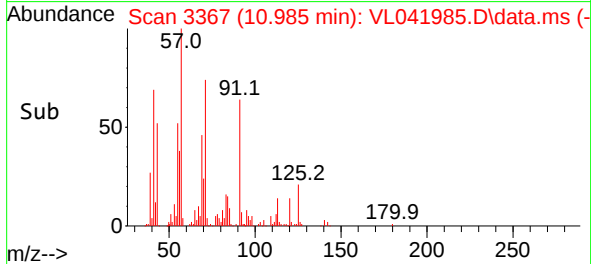
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:120 Resp: 4948
Ion Ratio Lower Upper
120 100
91 481.2 374.1 561.1

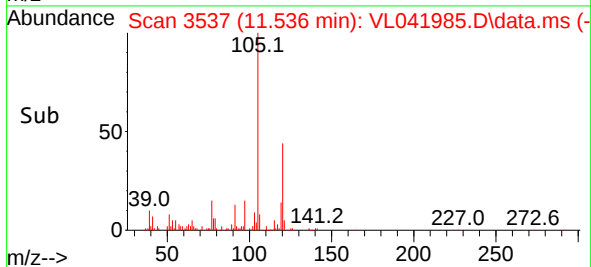
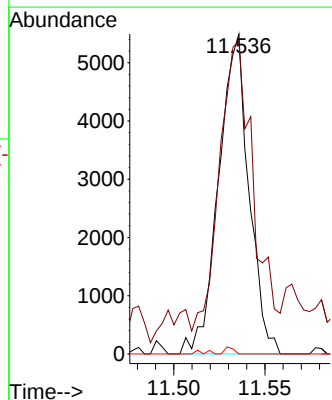
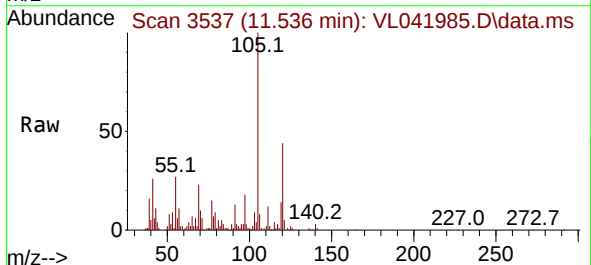
Manual Integrations
APPROVED

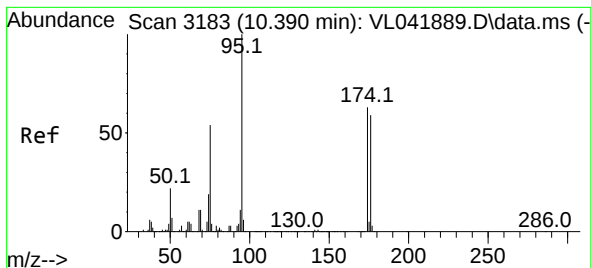
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#65
tert-Butylbenzene
Concen: 0.095 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.006 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

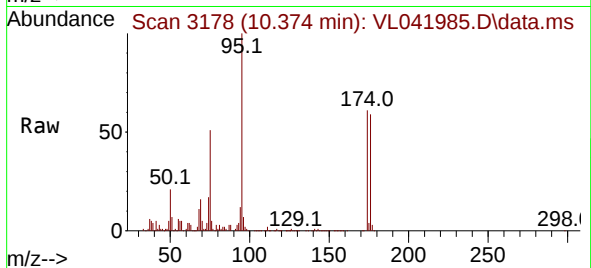
Tgt Ion:119 Resp: 6348
Ion Ratio Lower Upper
119 100
91 132.6 64.6 97.0#
134 0.0 16.8 25.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.555 ppbv
RT: 10.374 min Scan# 3183
Delta R.T. -0.016 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

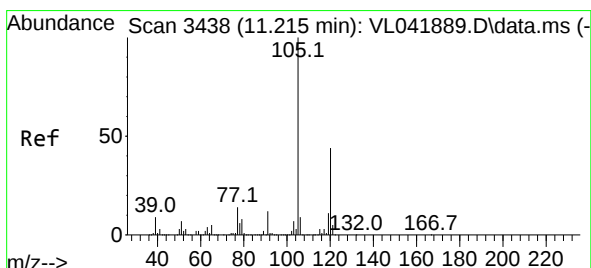
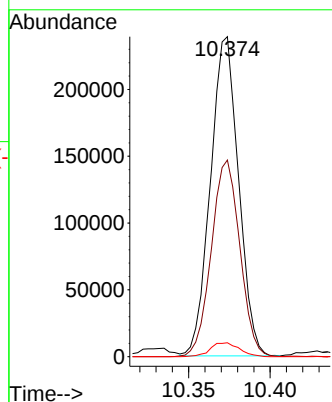
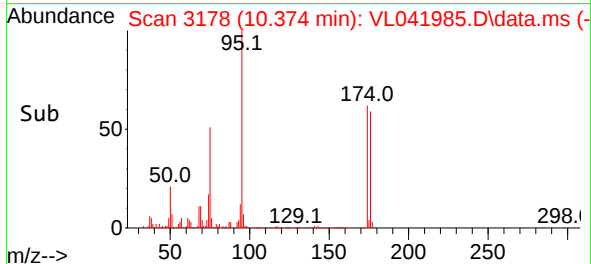
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 95 Resp: 286452
Ion Ratio Lower Upper
95 100
174 62.6 49.0 73.4
175 4.5 3.8 5.8

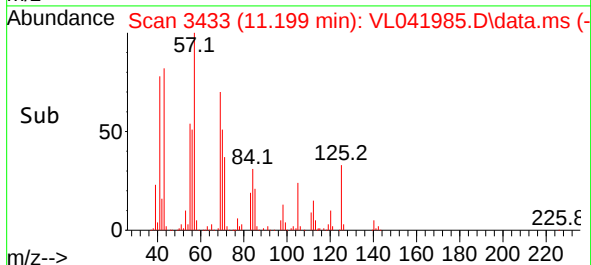
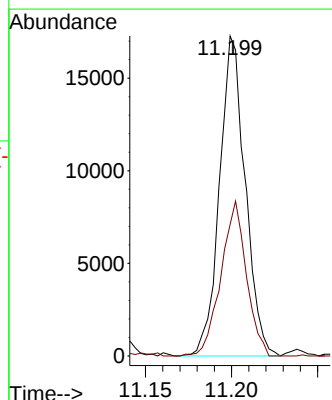
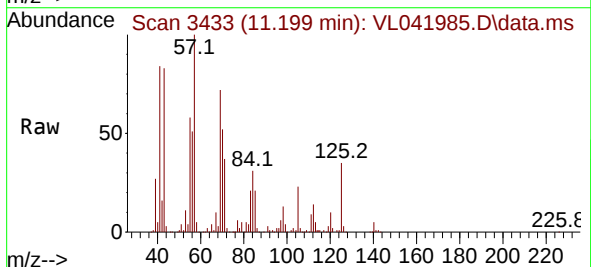
Manual Integrations
APPROVED

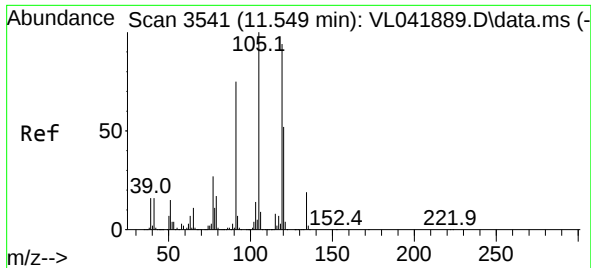
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.358 ppbv
RT: 11.199 min Scan# 3433
Delta R.T. -0.016 min
Lab File: VL041985.D
Acq: 10 Feb 2025 13:37

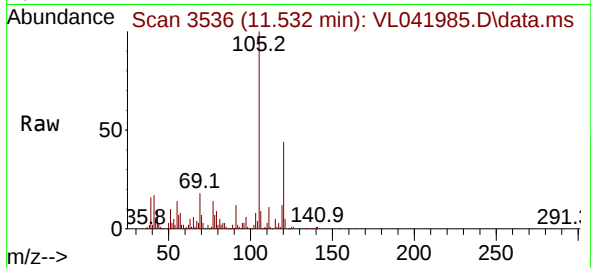
Tgt Ion:105 Resp: 17918
Ion Ratio Lower Upper
105 100
120 41.1 35.4 53.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.828 ppbv
 RT: 11.532 min Scan# 3536
 Delta R.T. -0.016 min
 Lab File: VL041985.D
 Acq: 10 Feb 2025 13:37

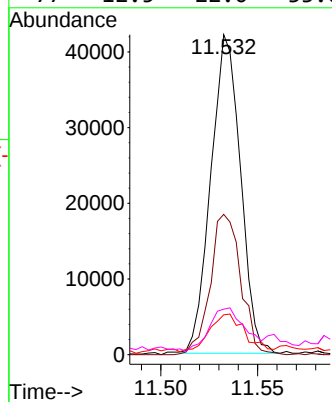
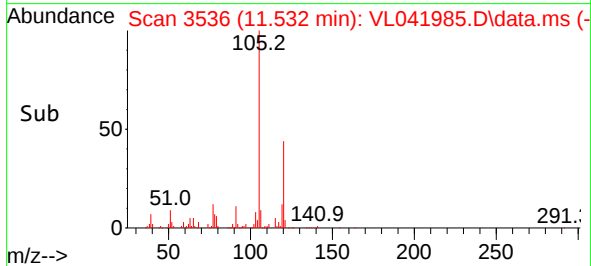
Instrument : MSVOA_L
 ClientSampleId : SV1



Tgt Ion:	105	Resp:	4483
Ion	Ratio	Lower	Upper
105	100		
120	43.8	41.4	62.2
91	11.6	60.2	90.2
77	12.5	22.0	33.0

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/04/25
Project:	1123 & 1125 Flatbush Ave Brooklyn, NY	Date Received:	02/05/25
Client Sample ID:	SV2	SDG No.:	Q1303
Lab Sample ID:	Q1303-02	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
VL041987.D	4		02/10/25 14:39	VL021025

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	10.4	42.6		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	1.20	4.13	J	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
79-01-6	Trichloroethene	0.19	1.02		0.38	0.64	ug/m3
108-88-3	Toluene	22.5	84.8		1.66	7.54	ug/m3
106-93-4	1,2-Dibromoethane	0.29	2.23	U	2.23	3.07	ug/m3
127-18-4	Tetrachloroethene	3.00	20.3		0.41	0.81	ug/m3
100-41-4	Ethyl Benzene	15.1	65.6		2.08	8.69	ug/m3
179601-23-1	m/p-Xylene	37.1	161		3.65	17.4	ug/m3
95-47-6	o-Xylene	17.9	77.8		2.08	8.69	ug/m3
108-67-8	1,3,5-Trimethylbenzene	16.1	79.2		2.16	9.83	ug/m3
95-63-6	1,2,4-Trimethylbenzene	41.8	206		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	47.5	167		1.55	7.05	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.00			65 - 135	90%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	150000			2.784		
540-36-3	1,4-Difluorobenzene	415000			3.952		
3114-55-4	Chlorobenzene-d5	373000			8.879		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041987.D
 Acq On : 10 Feb 2025 14:39
 Operator : SY/MD
 Sample : Q1303-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:23:52 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

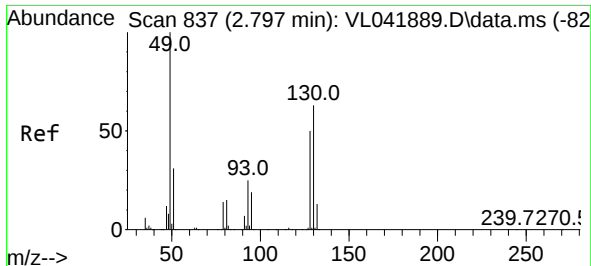
Internal Standards						
1) Bromochloromethane	2.784	49	150085	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	415477	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.879	117	373160	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	264651	9.004	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	2541	0.124	ppbv	97
9) Propene	1.486	41	3724	0.422	ppbv	86
10) Heptane	4.972	43	61096m	2.591	ppbv	
13) Ethanol	1.719	45	17505	27.089	ppbv	86
15) Acetone	1.832	43	212962	11.814	ppbv	99
19) Isopropyl Alcohol	1.884	45	37953m	3.551	ppbv	
20) Methylene Chloride	2.059	84	1499	0.210	ppbv	92
26) Hexane	2.823	57	228396	11.880	ppbv #	36
29) Chloroform	2.845	83	3909	0.129	ppbv	88
30) Cyclohexane	3.855	84	5116	0.307	ppbv #	88
34) 2-Butanone	2.557	43	93067	3.522	ppbv	98
38) Trichloroethene	4.554	130	733m	0.048	ppbv	
41) Tetrahydrofuran	3.056	42	62905	4.381	ppbv	98
51) 2-Hexanone	7.435	43	377479	13.619	ppbv #	74
52) Tetrachloroethene	8.222	164	9927	0.751	ppbv	90
53) Toluene	6.927	91	233871	5.634	ppbv	100
58) Ethyl Benzene	9.351	91	220202	3.776	ppbv	95
59) m/p-Xylene	9.529	91	433881	9.282	ppbv	98
60) o-Xylene	9.963	91	208171	4.487	ppbv	100
62) Isopropylbenzene	10.539	105	139797	1.947	ppbv	98
64) n-propylbenzene	10.989	120	62740	3.458	ppbv	84
65) tert-Butylbenzene	11.542	119	67647	1.034	ppbv #	55
67) sec-Butylbenzene	11.772	105	141296	1.568	ppbv	99
69) p-Isopropyltoluene	11.927	119	76372	1.029	ppbv #	91
70) n-Butylbenzene	12.284	91	74239	1.009	ppbv #	68
73) 1,3,5-Trimethylbenzene	11.206	105	197194	4.024	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	554997	10.456	ppbv #	55

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

Manual Integrations

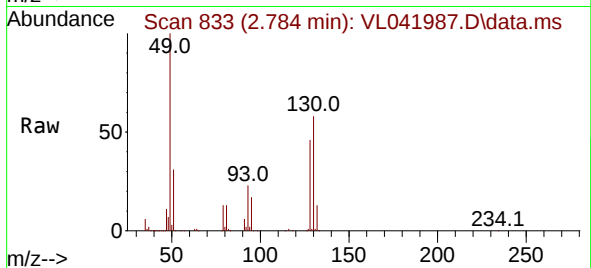
Quant Time: Feb 11 01:23:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

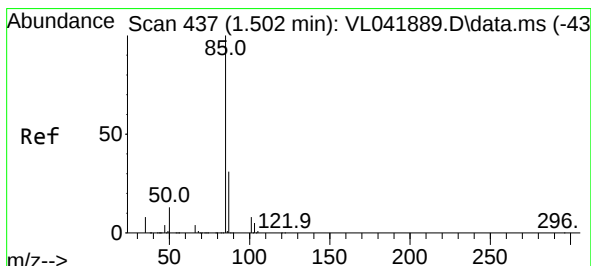
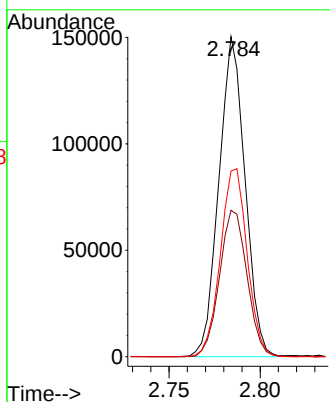
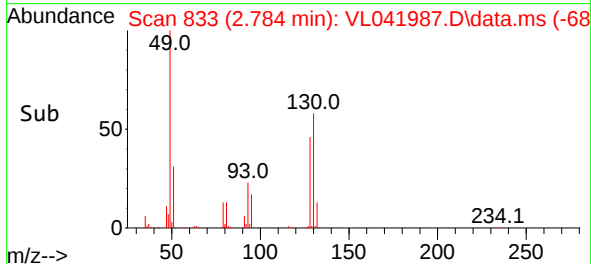
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 15008
Ion Ratio Lower Upper
49 100
128 48.1 24.3 73.0
130 60.2 31.1 93.2

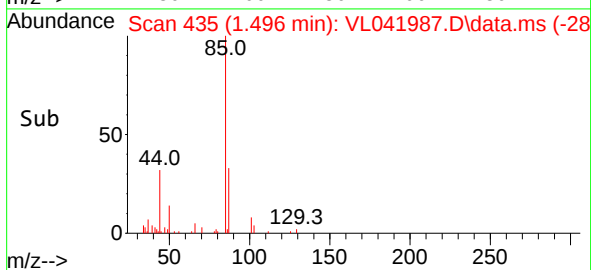
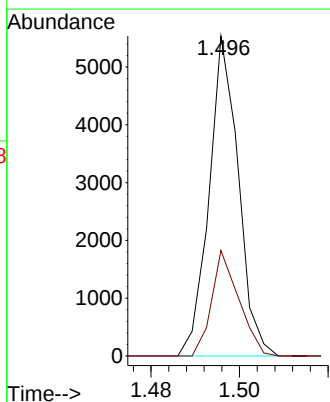
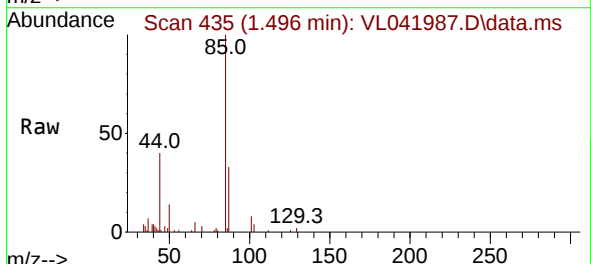
Manual Integrations
APPROVED

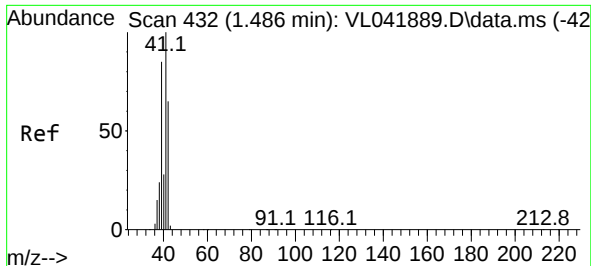
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.124 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

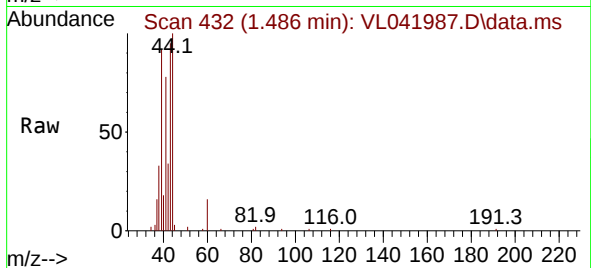
Tgt Ion: 85 Resp: 2541
Ion Ratio Lower Upper
85 100
87 33.0 24.9 37.3





#9
Propene
Concen: 0.422 ppbv
RT: 1.486 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

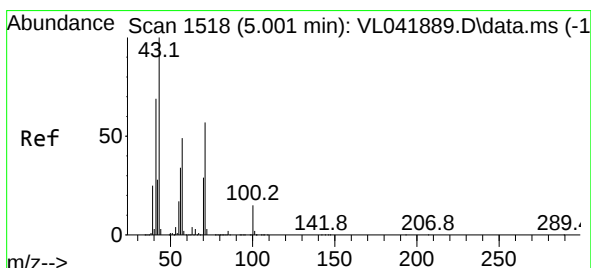
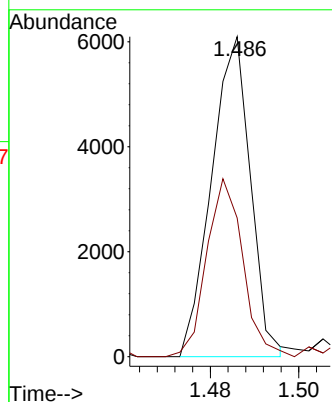
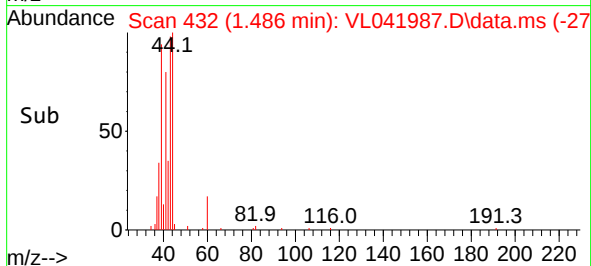
Instrument :
MSVOA_L
ClientSampleId :
SV2



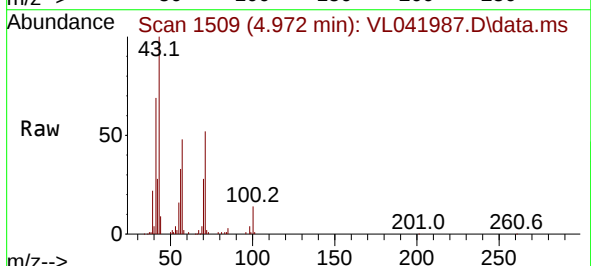
Tgt Ion: 41 Resp: 3724
Ion Ratio Lower Upper
41 100
42 53.8 52.0 78.0

Manual Integrations
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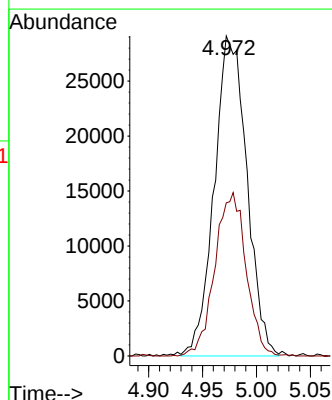
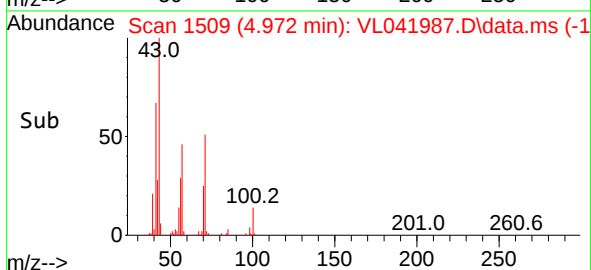
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

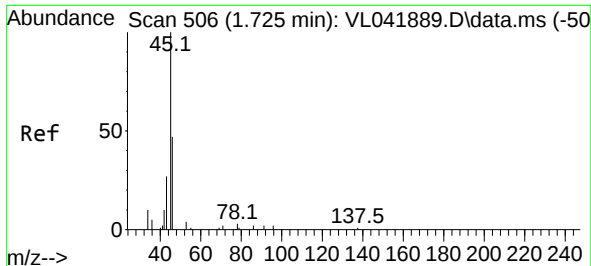


#10
Heptane
Concen: 2.591 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.029 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39



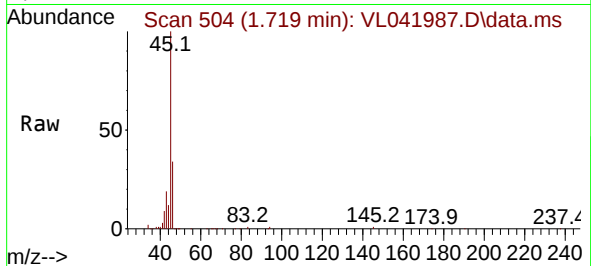
Tgt Ion: 43 Resp: 61096
Ion Ratio Lower Upper
43 100
57 49.0 41.0 61.4





#13
Ethanol
Concen: 27.089 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

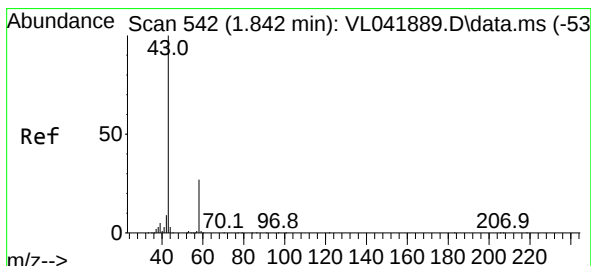
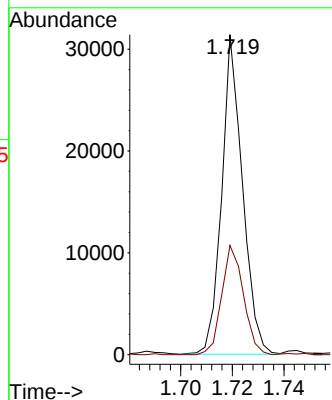
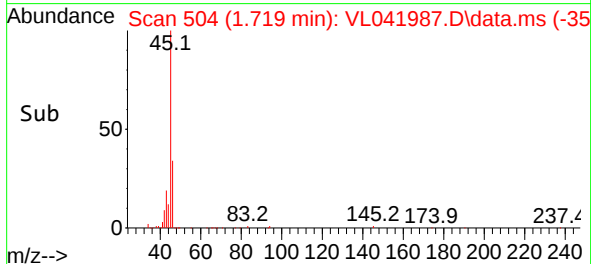
Instrument :
MSVOA_L
ClientSampleId :
SV2



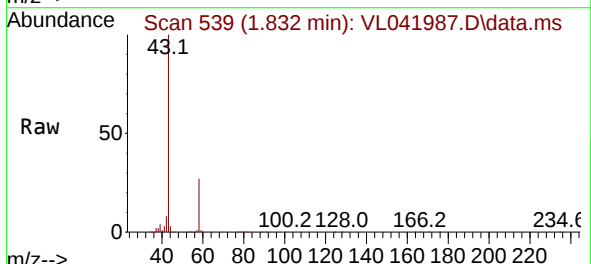
Tgt Ion: 45 Resp: 17509
Ion Ratio Lower Upper
45 100
46 36.1 18.1 72.5

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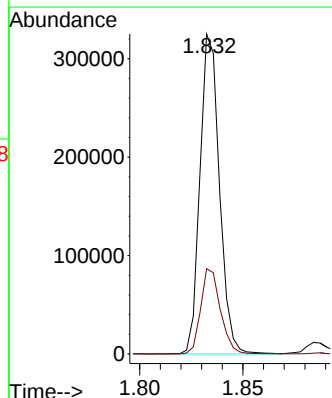
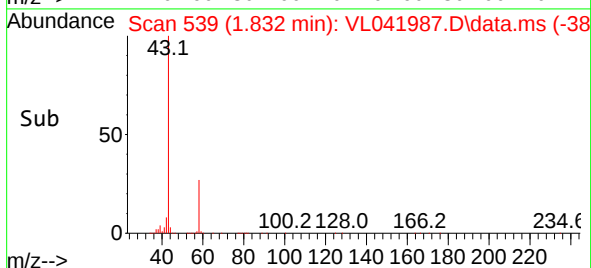
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

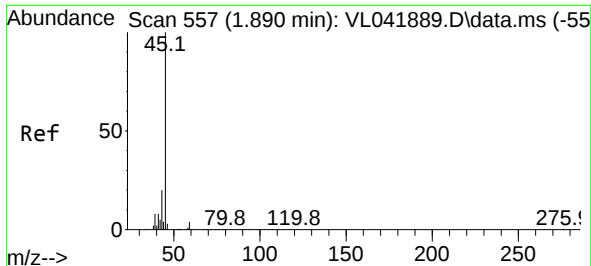


#15
Acetone
Concen: 11.814 ppbv
RT: 1.832 min Scan# 539
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39



Tgt Ion: 43 Resp: 212962
Ion Ratio Lower Upper
43 100
58 27.0 21.9 32.9





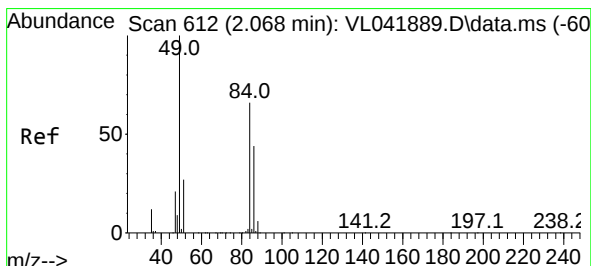
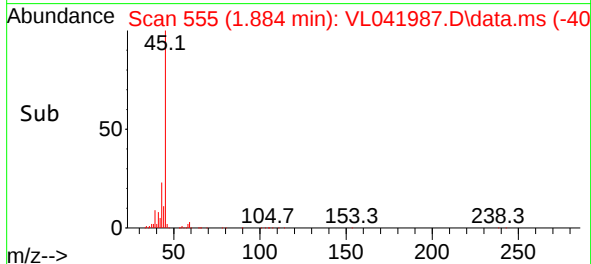
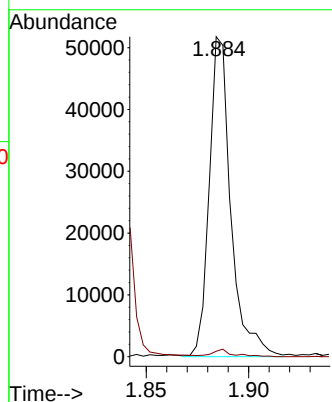
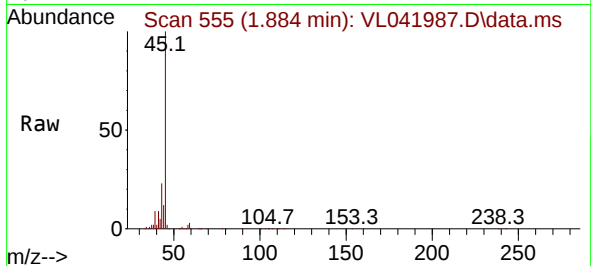
#19
Isopropyl Alcohol
Concen: 3.551 ppbv m
RT: 1.884 min Scan# 51
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 45 Resp: 3795
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6

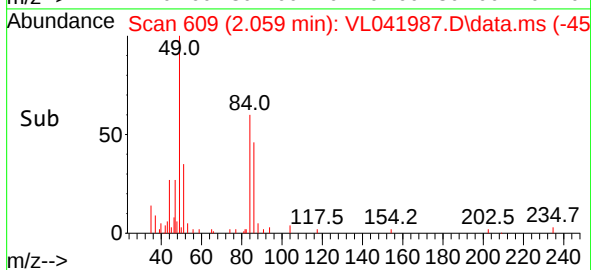
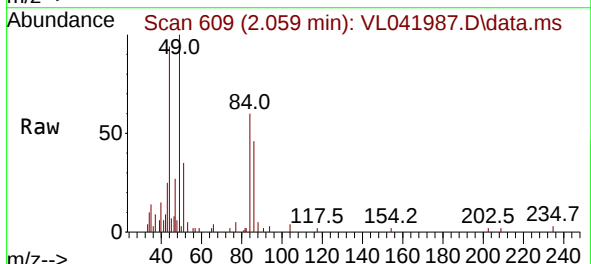
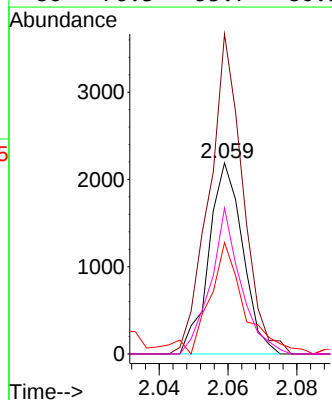
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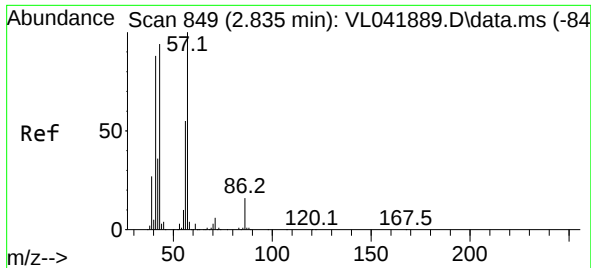
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 0.210 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

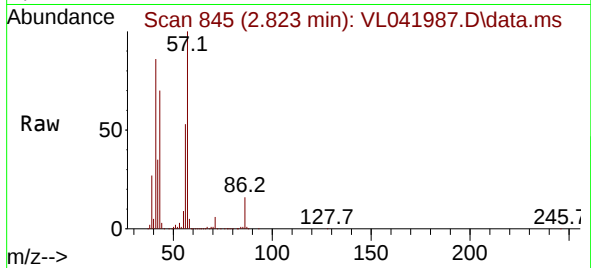
Tgt Ion: 84 Resp: 1499
Ion Ratio Lower Upper
84 100
49 161.0 123.1 184.7
51 53.0 35.8 53.8
86 76.3 53.7 80.5





#26
Hexane
Concen: 11.880 ppbv
RT: 2.823 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

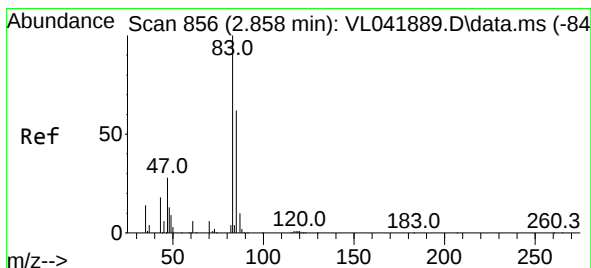
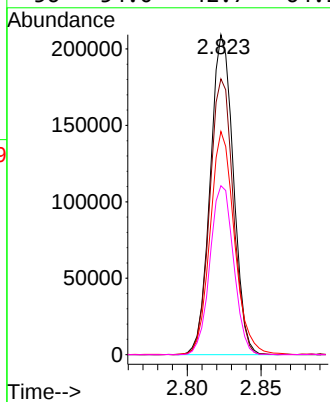
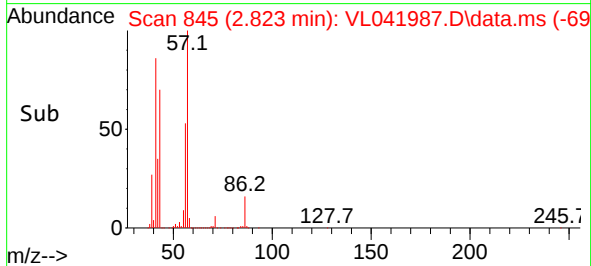
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 228390
Ion Ratio Lower Upper
57 100
41 87.7 73.8 110.8
43 73.9 197.3 295.9
56 54.0 42.7 64.1

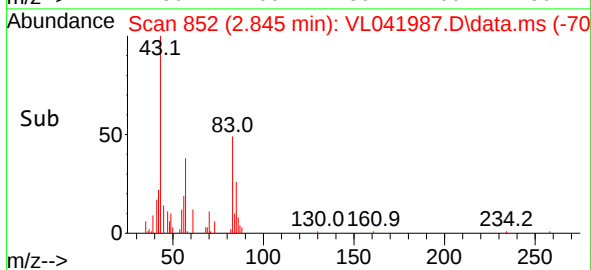
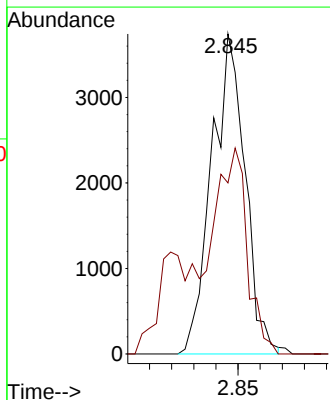
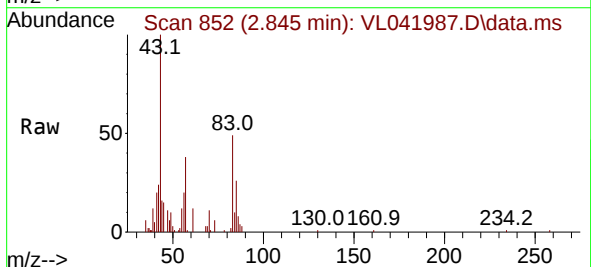
Manual Integrations
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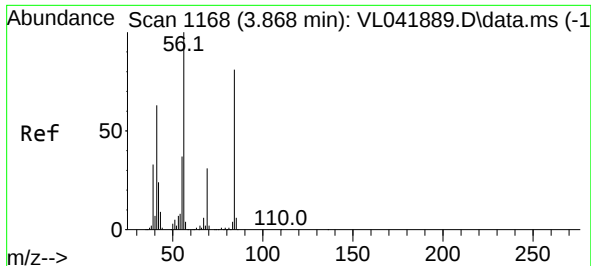
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#29
Chloroform
Concen: 0.129 ppbv
RT: 2.845 min Scan# 852
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

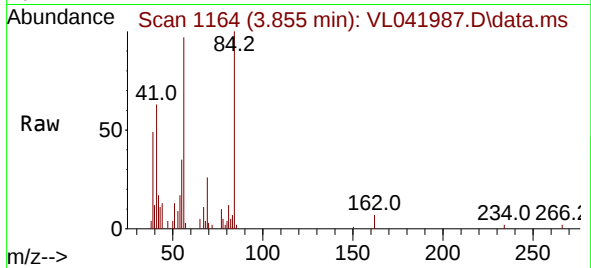
Tgt Ion: 83 Resp: 3909
Ion Ratio Lower Upper
83 100
85 53.5 50.1 75.1





#30
Cyclohexane
Concen: 0.307 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

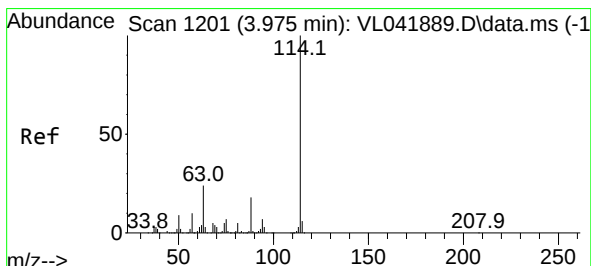
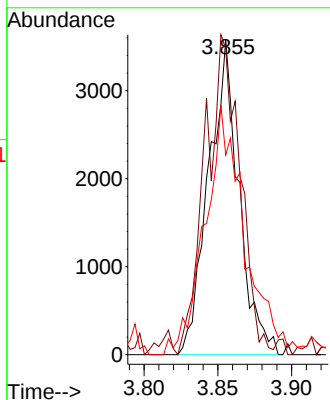
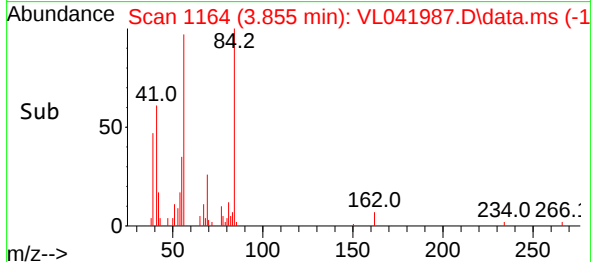
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 84 Resp: 5110
Ion Ratio Lower Upper
84 100
56 120.8 99.3 148.9
41 103.2 64.3 96.5

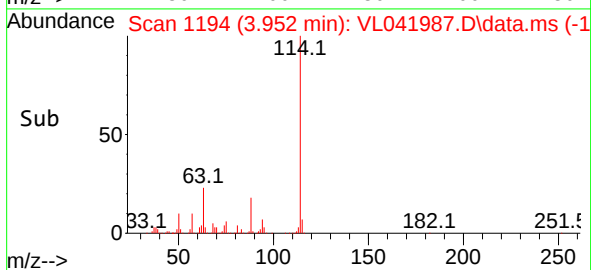
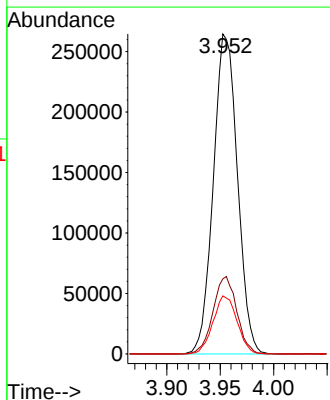
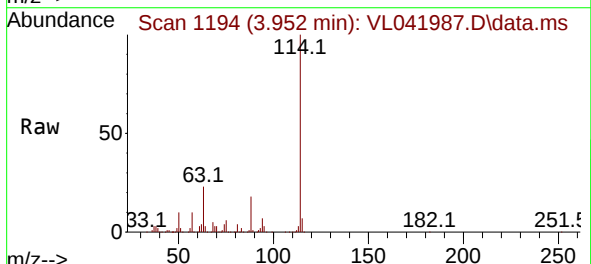
Manual Integrations
APPROVED

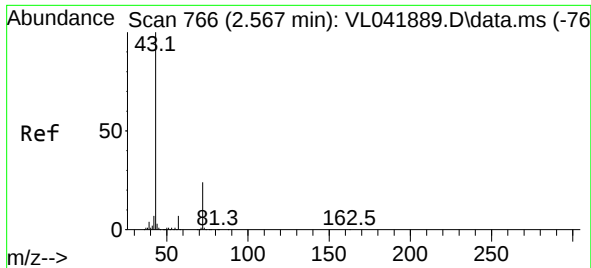
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.022 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion:114 Resp: 415477
Ion Ratio Lower Upper
114 100
63 23.9 19.8 29.6
88 18.1 14.4 21.6





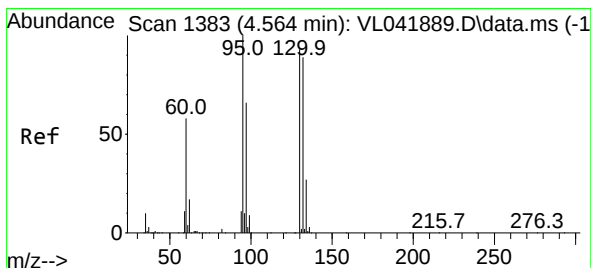
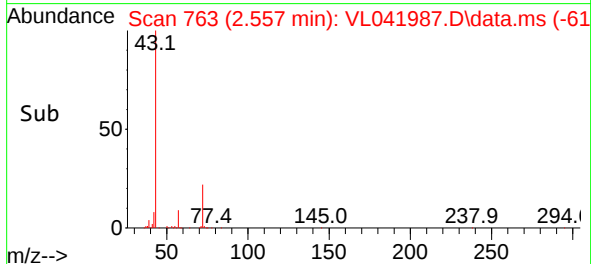
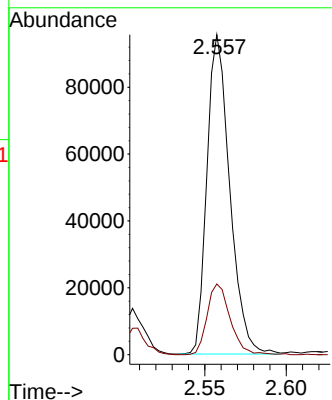
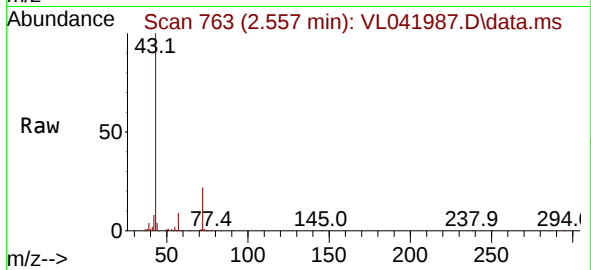
#34
2-Butanone
Concen: 3.522 ppbv
RT: 2.557 min Scan# 766
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 9306
Ion Ratio Lower Upper
43 100
72 22.3 18.6 28.0

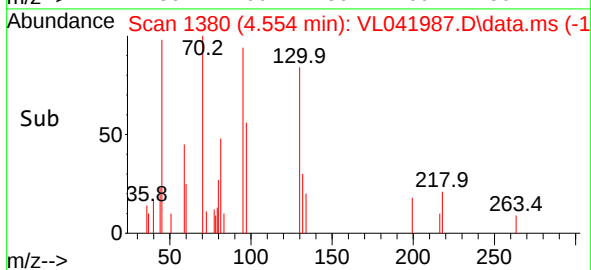
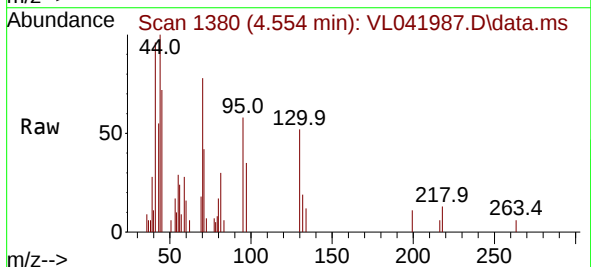
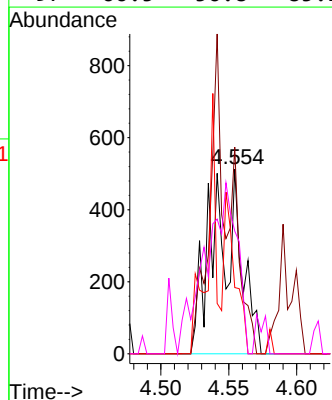
Manual Integrations
APPROVED

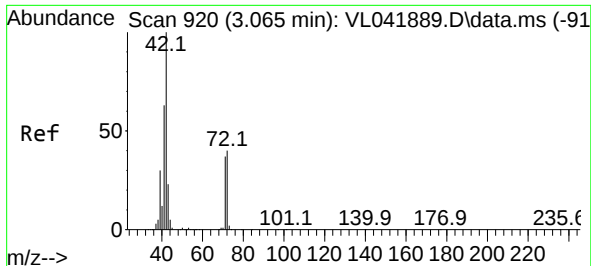
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#38
Trichloroethene
Concen: 0.048 ppbv m
RT: 4.554 min Scan# 1380
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion:130 Resp: 733
Ion Ratio Lower Upper
130 100
95 111.9 85.8 128.8
132 35.9 76.5 114.7#
97 66.5 56.8 85.2





#41

Tetrahydrofuran

Concen: 4.381 ppbv

RT: 3.056 min Scan# 917

Delta R.T. -0.009 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

Instrument :

MSVOA_L

ClientSampleId :

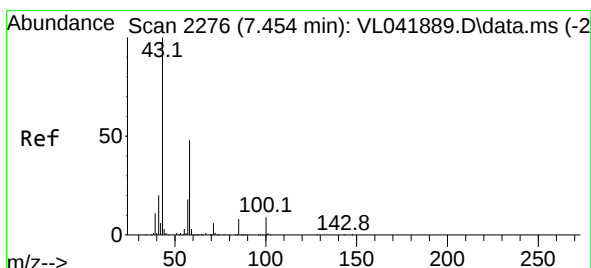
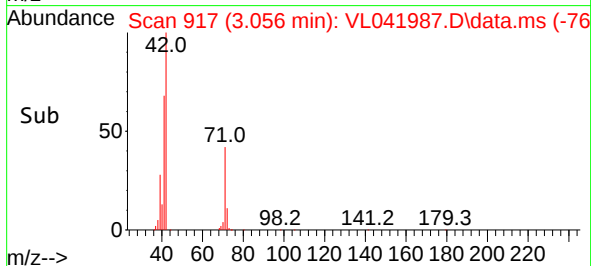
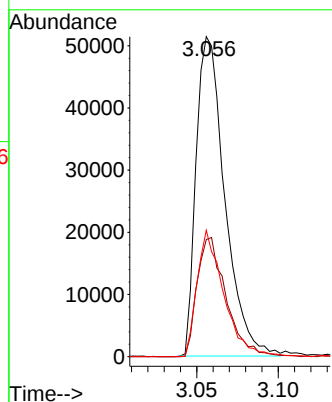
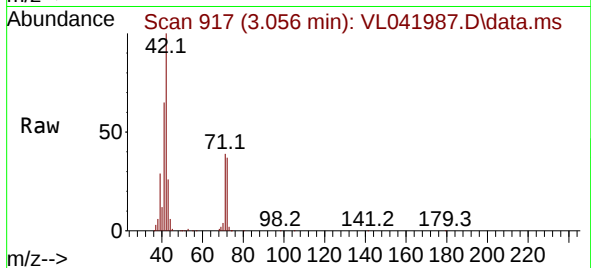
SV2

Tgt Ion:	42	Resp:	62908
Ion	Ratio	Lower	Upper
42	100		
72	37.7	32.3	48.5
71	37.2	29.9	44.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#51

2-Hexanone

Concen: 13.619 ppbv

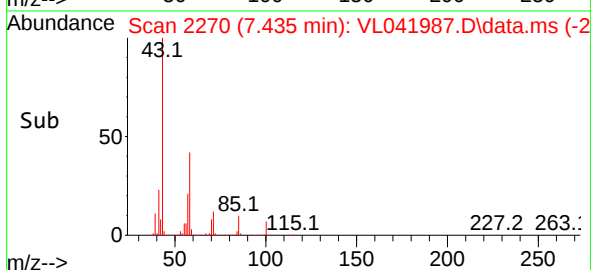
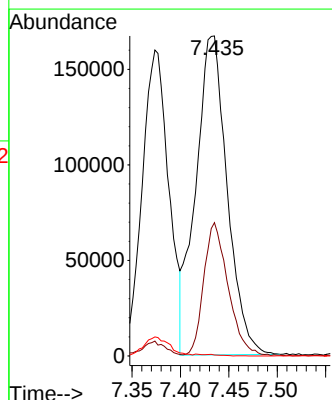
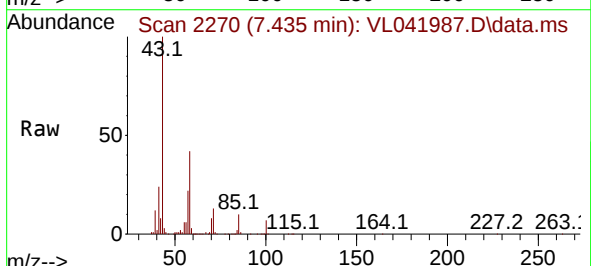
RT: 7.435 min Scan# 2270

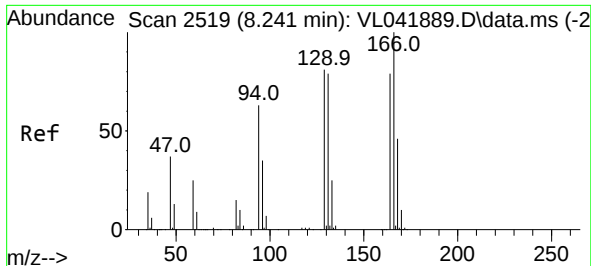
Delta R.T. -0.019 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

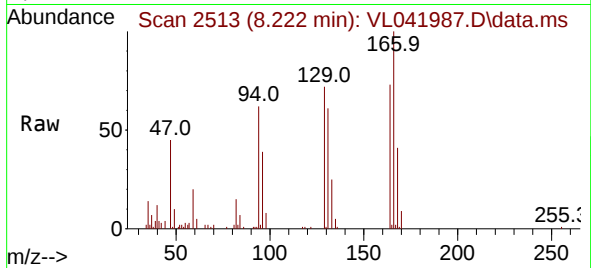
Tgt Ion:	43	Resp:	377479
Ion	Ratio	Lower	Upper
43	100		
58	32.7	40.4	60.6#
98	0.0	0.2	0.2#





#52
Tetrachloroethene
Concen: 0.751 ppbv
RT: 8.222 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

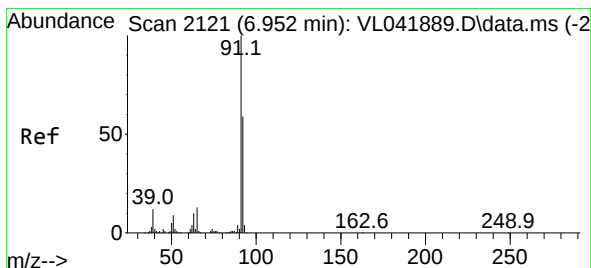
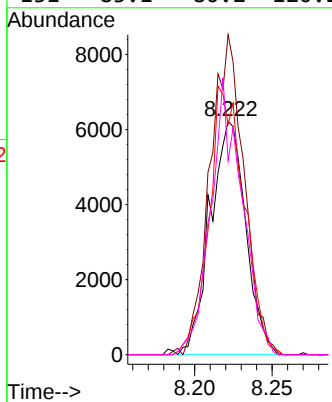
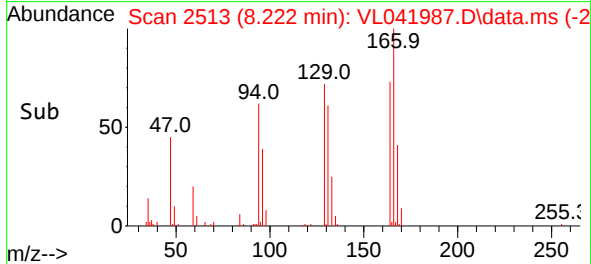
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:164 Resp: 992
Ion Ratio Lower Upper
164 100
166 136.1 100.8 151.2
129 97.3 82.0 123.0
131 83.1 80.2 120.2

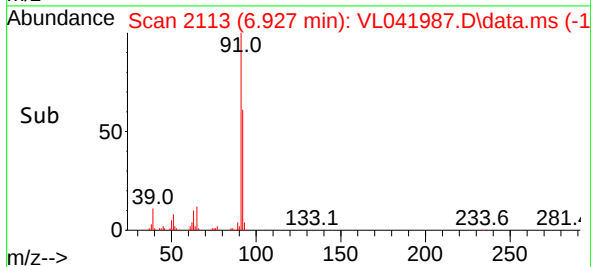
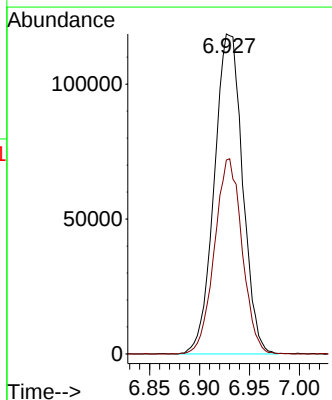
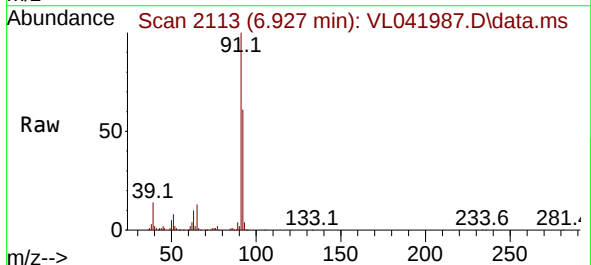
Manual Integrations
APPROVED

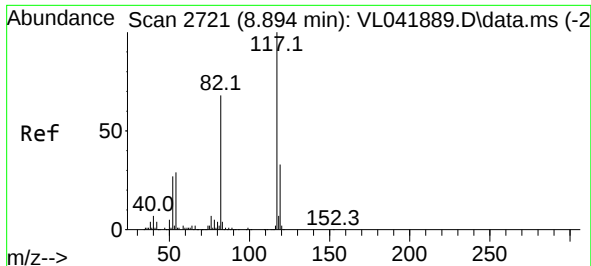
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 5.634 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion: 91 Resp: 233871
Ion Ratio Lower Upper
91 100
92 59.5 47.4 71.0





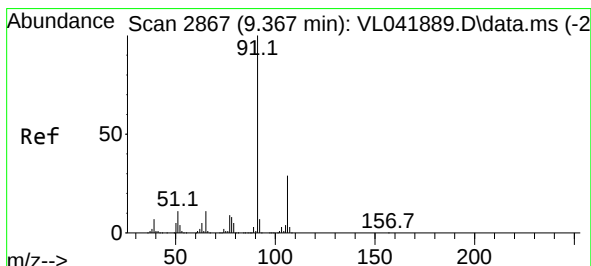
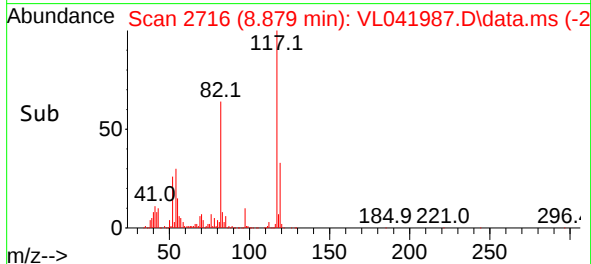
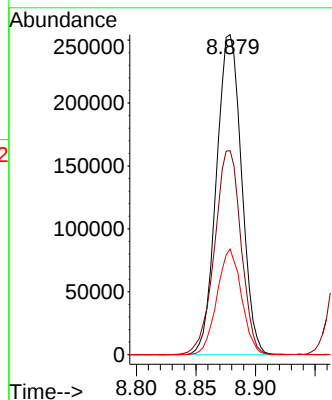
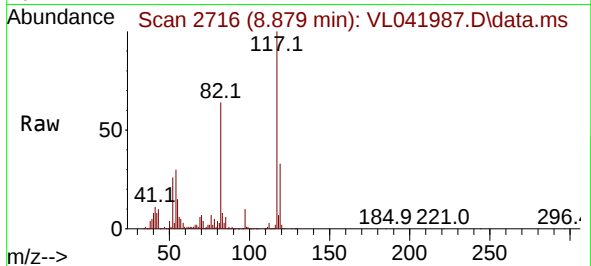
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.879 min Scan# 2716
Delta R.T. -0.016 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 117 Resp: 373160
Ion Ratio Lower Upper
117 100
82 67.3 54.2 81.4
119 32.2 25.0 37.6

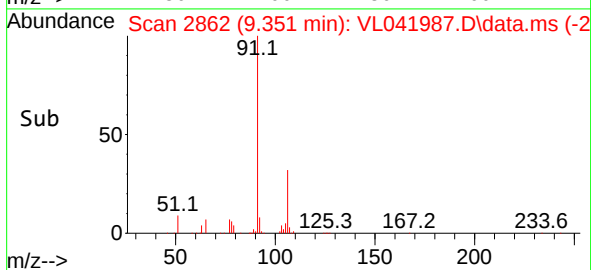
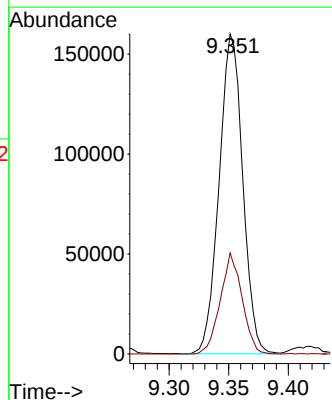
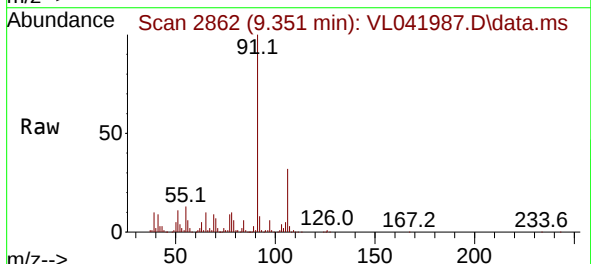
Manual Integrations
APPROVED

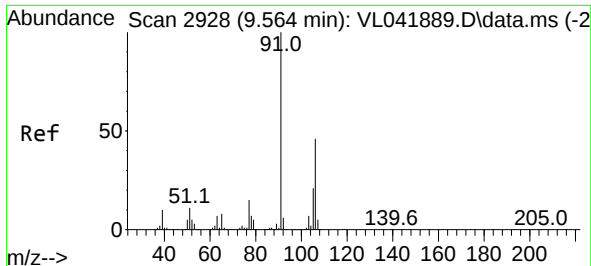
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#58
Ethyl Benzene
Concen: 3.776 ppbv
RT: 9.351 min Scan# 2862
Delta R.T. -0.016 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion: 91 Resp: 220202
Ion Ratio Lower Upper
91 100
106 31.6 23.1 34.7





#59

m/p-Xylene

Concen: 9.282 ppbv

RT: 9.529 min Scan# 2917

Delta R.T. -0.035 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 91 Resp: 43388

Ion Ratio Lower Upper

91 100

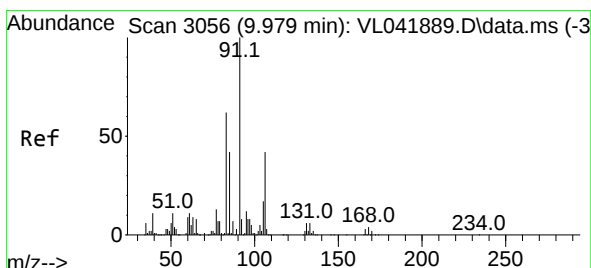
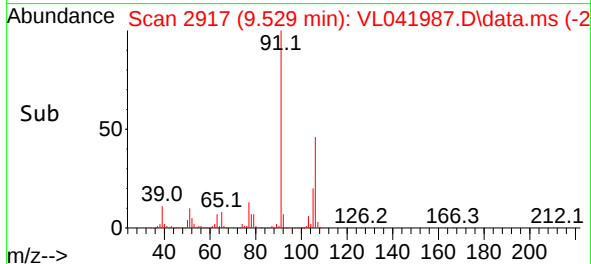
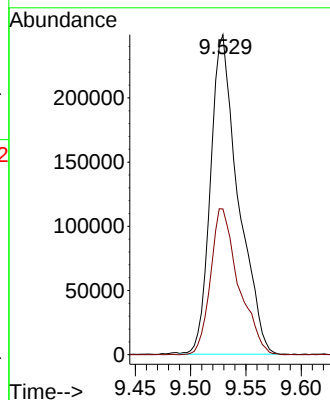
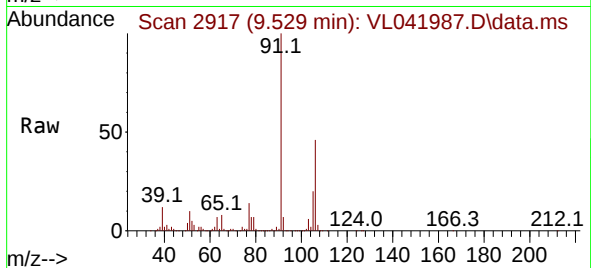
106 46.3 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

o-Xylene

Concen: 4.487 ppbv

RT: 9.963 min Scan# 3051

Delta R.T. -0.016 min

Lab File: VL041987.D

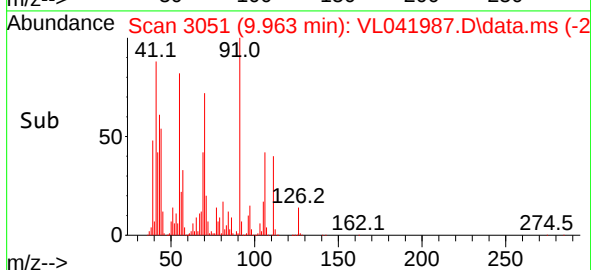
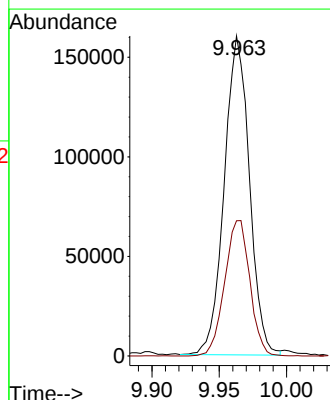
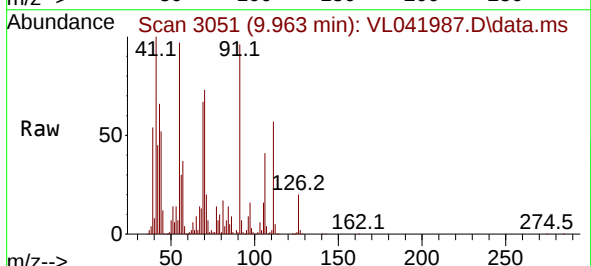
Acq: 10 Feb 2025 14:39

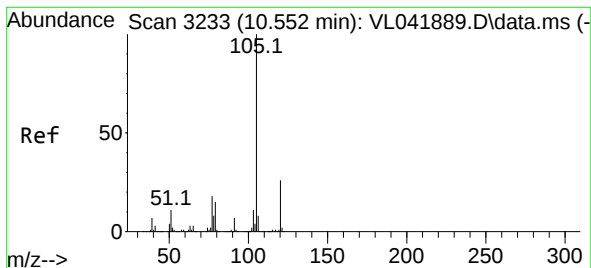
Tgt Ion: 91 Resp: 208171

Ion Ratio Lower Upper

91 100

106 42.5 21.3 63.9





#62

Isopropylbenzene

Concen: 1.947 ppbv

RT: 10.539 min Scan# 31

Delta R.T. -0.013 min

Lab File: VL041987.D

Acq: 10 Feb 2025 14:39

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:105 Resp: 13979

Ion Ratio Lower Upper

105 100

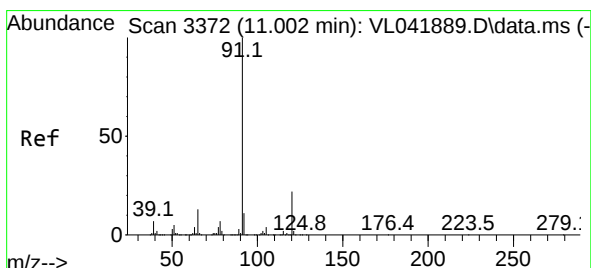
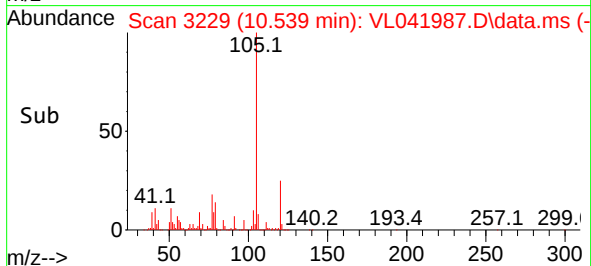
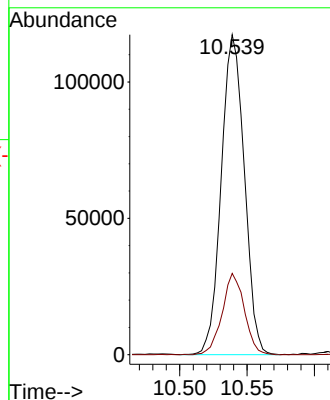
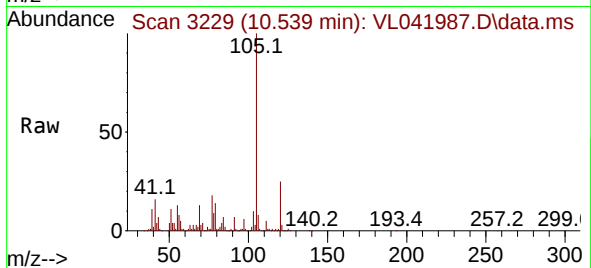
120 24.4 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#64

n-propylbenzene

Concen: 3.458 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. -0.013 min

Lab File: VL041987.D

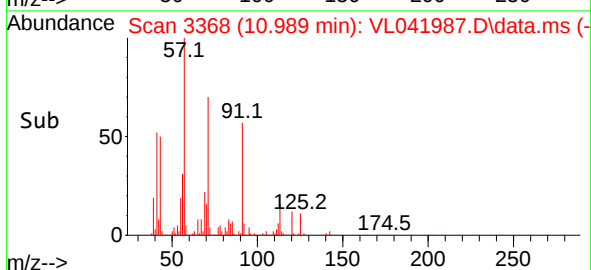
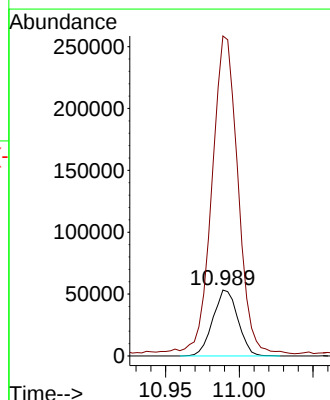
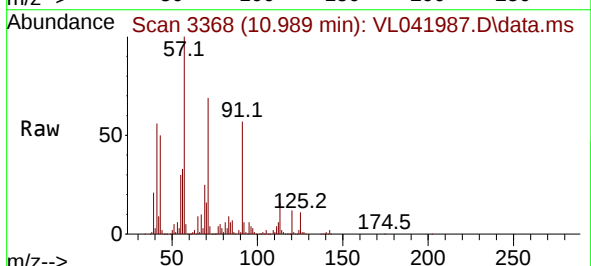
Acq: 10 Feb 2025 14:39

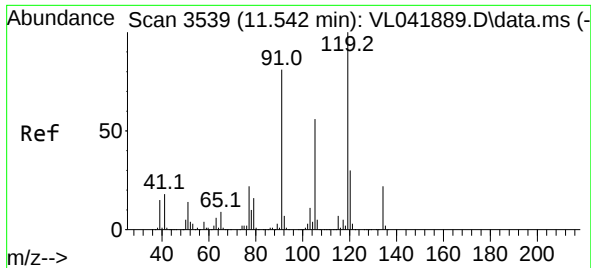
Tgt Ion:120 Resp: 62740

Ion Ratio Lower Upper

120 100

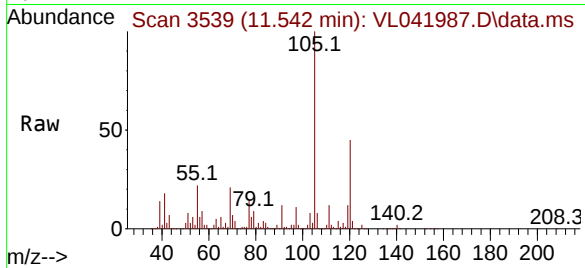
91 510.7 374.1 561.1





#65
tert-Butylbenzene
Concen: 1.034 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

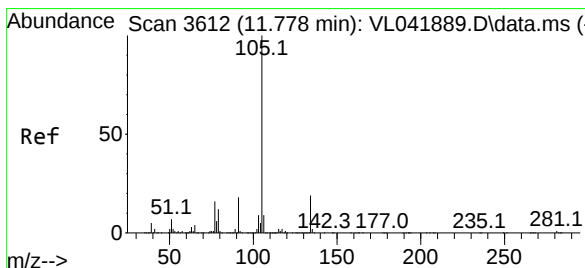
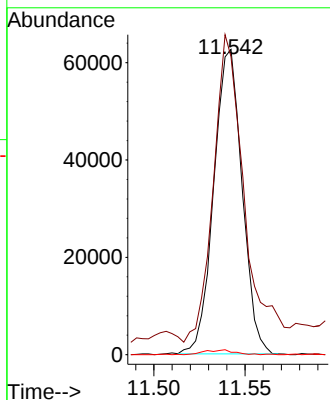
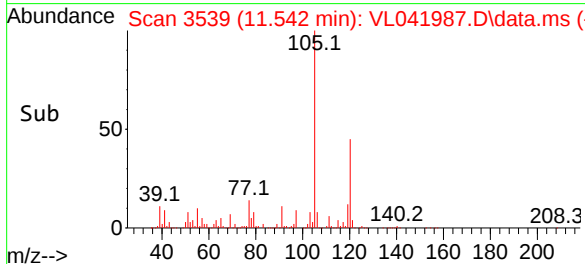
Instrument :
MSVOA_L
ClientSampleId :
SV2



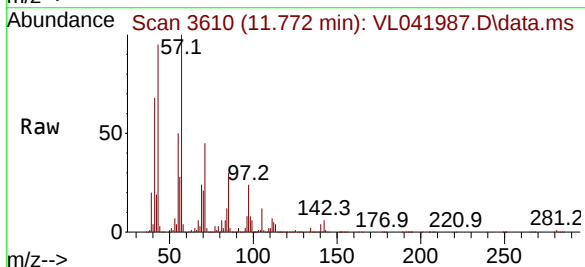
Tgt Ion:119 Resp: 6764
Ion Ratio Lower Upper
119 100
91 121.9 64.6 97.0
134 1.9 16.8 25.2

Manual Integrations
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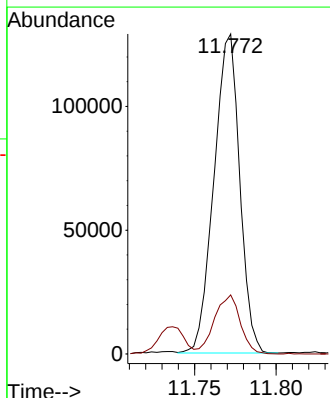
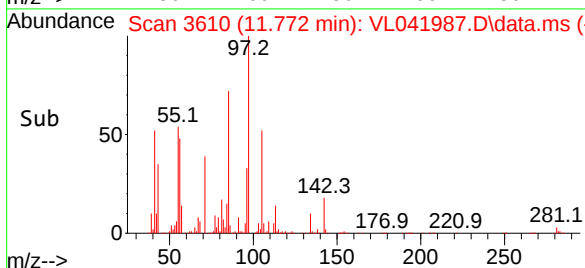
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

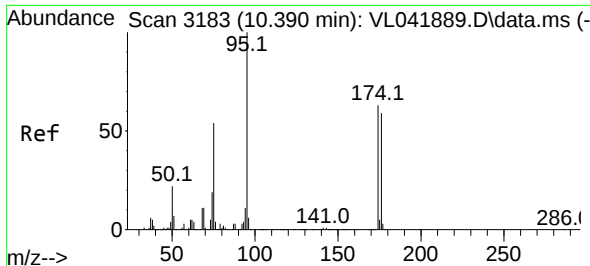


#67
sec-Butylbenzene
Concen: 1.568 ppbv
RT: 11.772 min Scan# 3610
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39



Tgt Ion:105 Resp: 141296
Ion Ratio Lower Upper
105 100
134 18.4 15.1 22.7





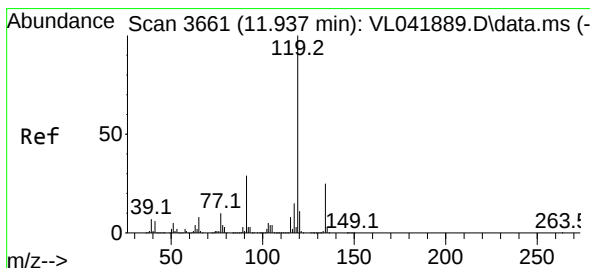
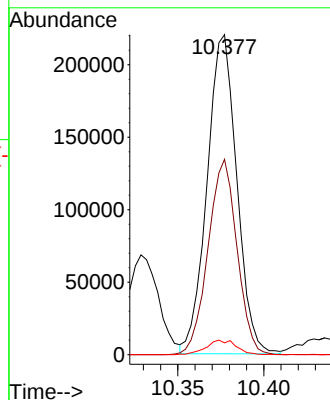
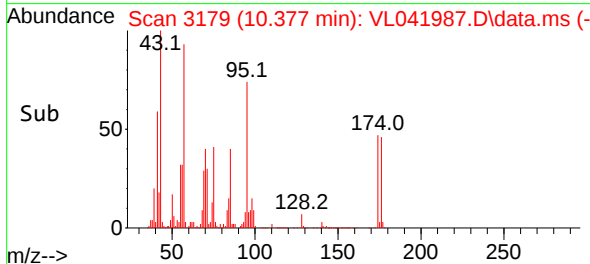
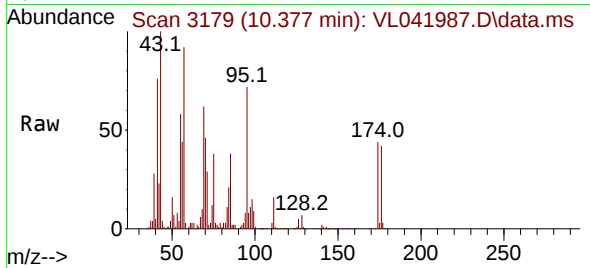
#68
1-Bromo-4-Fluorobenzene
Concen: 9.004 ppbv
RT: 10.377 min Scan# 3183
Delta R.T. -0.013 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 26465
Ion Ratio Lower Upper
95 100
174 59.6 49.0 73.4
175 4.6 3.8 5.8

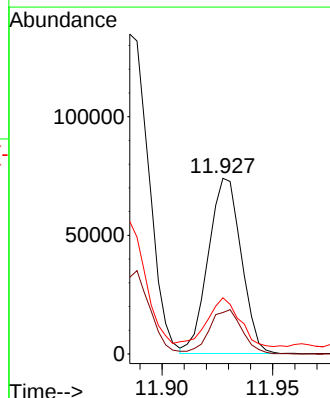
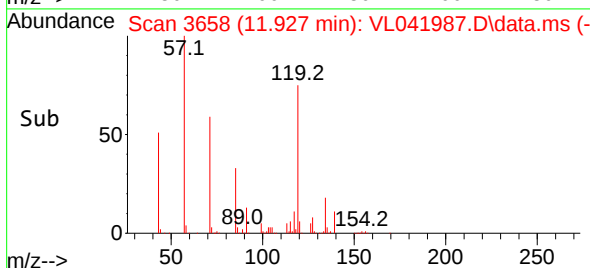
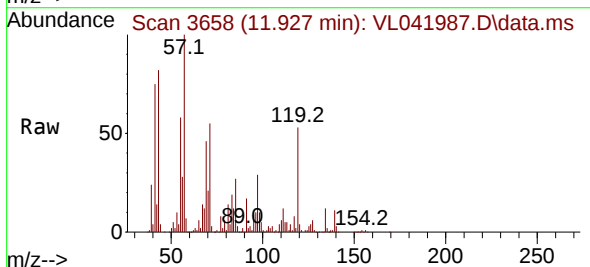
Manual Integrations
APPROVED

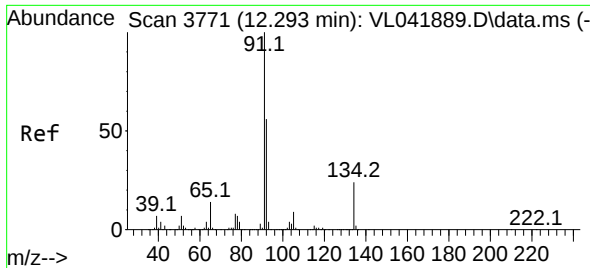
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#69
p-Isopropyltoluene
Concen: 1.029 ppbv
RT: 11.927 min Scan# 3658
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Tgt Ion:119 Resp: 76372
Ion Ratio Lower Upper
119 100
134 24.9 19.8 29.6
91 37.7 23.0 34.4#





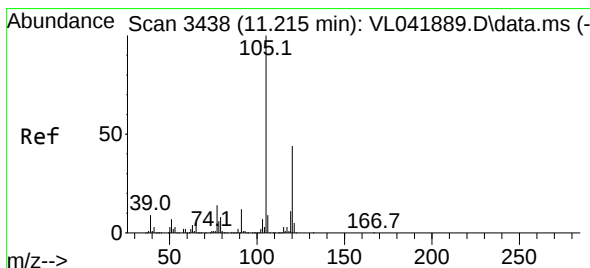
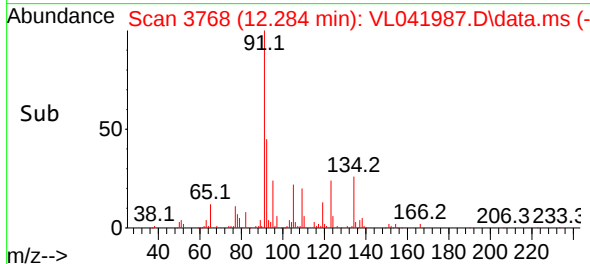
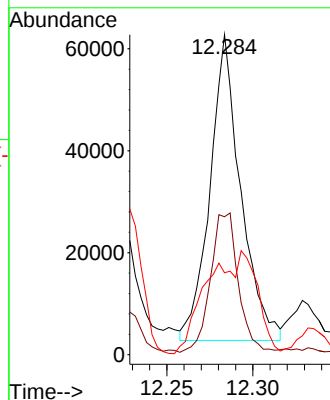
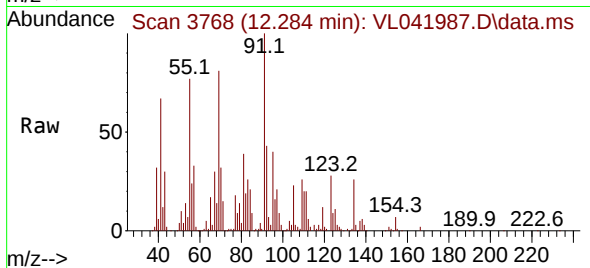
#70
n-Butylbenzene
Concen: 1.009 ppbv
RT: 12.284 min Scan# 3768
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 74239
Ion Ratio Lower Upper
91 100
92 43.4 43.8 65.6
134 57.4 19.0 28.6

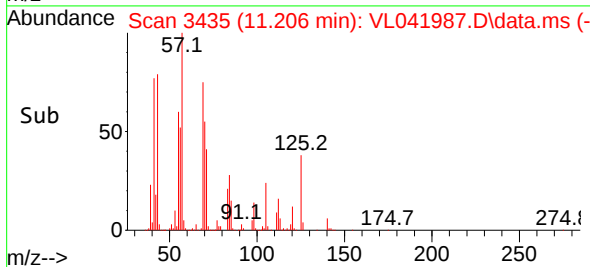
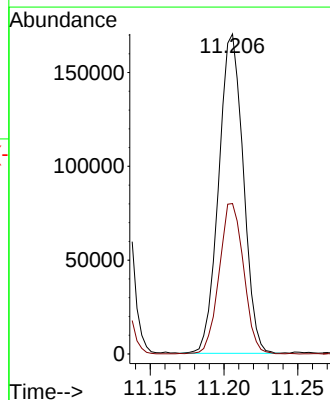
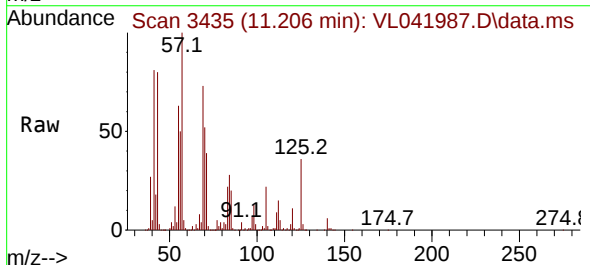
Manual Integrations
APPROVED

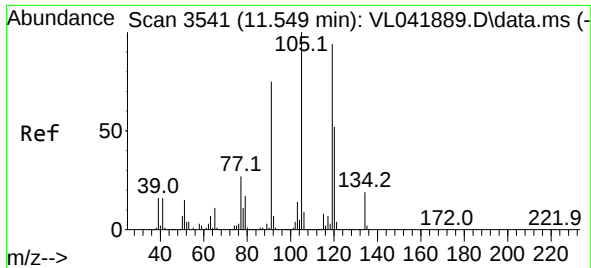
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#73
1,3,5-Trimethylbenzene
Concen: 4.024 ppbv
RT: 11.206 min Scan# 3435
Delta R.T. -0.009 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

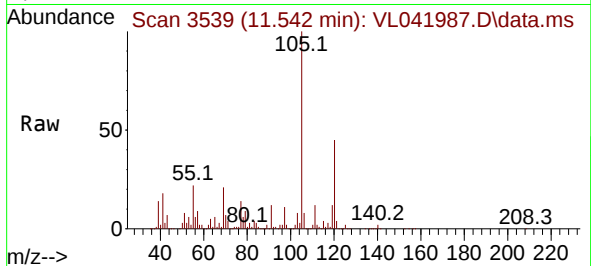
Tgt Ion:105 Resp: 197194
Ion Ratio Lower Upper
105 100
120 47.0 35.4 53.2





#74
1,2,4-Trimethylbenzene
Concen: 10.456 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.006 min
Lab File: VL041987.D
Acq: 10 Feb 2025 14:39

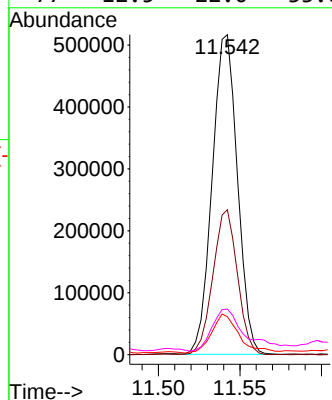
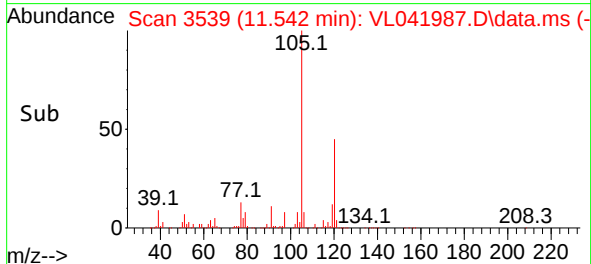
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:	105	Resp:	55499
Ion Ratio	Lower	Upper	
105	100		
120	45.3	41.4	62.2
91	11.1	60.2	90.2
77	12.5	22.0	33.0

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/04/25
Project:	1123 & 1125 Flatbush Ave Brooklyn, NY	Date Received:	02/05/25
Client Sample ID:	IA1	SDG No.:	Q1303
Lab Sample ID:	Q1303-03	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
VL041989.D	1		02/10/25 15:43	VL021025

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	0.41	1.31	J	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.030	0.16		0.11	0.16	ug/m3
108-88-3	Toluene	1.20	4.52		0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	1.50	10.2		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	0.31	1.35	J	0.91	4.34	ug/m3
95-47-6	o-Xylene	0.14	0.61	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	0.080	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	9.40			65 - 135	94%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	144000			2.784		
540-36-3	1,4-Difluorobenzene	411000			3.952		
3114-55-4	Chlorobenzene-d5	351000			8.875		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041989.D
 Acq On : 10 Feb 2025 15:43
 Operator : SY/MD
 Sample : Q1303-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:25:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

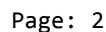
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

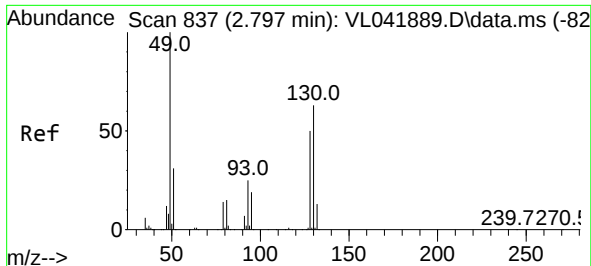
Internal Standards						
1) Bromochloromethane	2.784	49	143881	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.952	114	411385	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.875	117	350508	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	258442	9.361	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.600%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	8543	0.436	ppbv	98
4) Chloromethane	1.528	50	4082	0.554	ppbv	94
9) Propene	1.486	41	19213m	2.272	ppbv	
11) Trichlorofluoromethane	1.874	101	5294m	0.260	ppbv	
13) Ethanol	1.719	45	675322	1090.109	ppbv	88
15) Acetone	1.832	43	2310992	133.728	ppbv #	58
17) tert-Butyl alcohol	2.043	59	3605m	0.169	ppbv	
19) Isopropyl Alcohol	1.884	45	1259646	122.935	ppbv #	28
20) Methylene Chloride	2.059	84	10800	1.581	ppbv #	85
25) Ethyl Acetate	2.832	43	558771	11.991	ppbv #	92
34) 2-Butanone	2.561	43	14190	0.542	ppbv	100
35) Carbon Tetrachloride	3.761	117	1770m	0.068	ppbv	
36) Benzene	3.651	78	15471	0.410	ppbv	94
38) Trichloroethene	4.545	130	484m	0.032	ppbv	
52) Tetrachloroethene	8.221	164	20075	1.534	ppbv #	81
53) Toluene	6.927	91	48493	1.180	ppbv	99
58) Ethyl Benzene	9.348	91	5704	0.104	ppbv	97
59) m/p-Xylene	9.523	91	13469m	0.307	ppbv	
60) o-Xylene	9.956	91	6020	0.138	ppbv	83

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

Manual Integrations

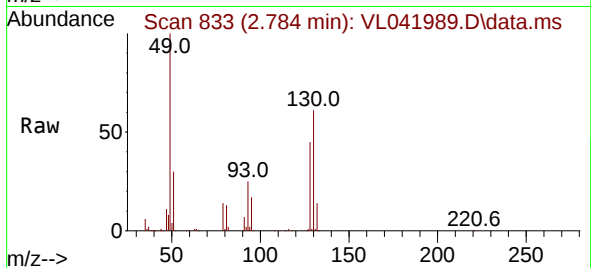
Quant Time: Feb 11 01:25:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

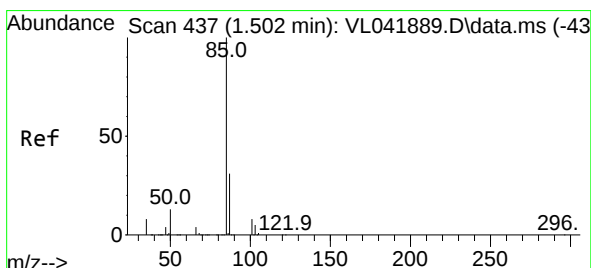
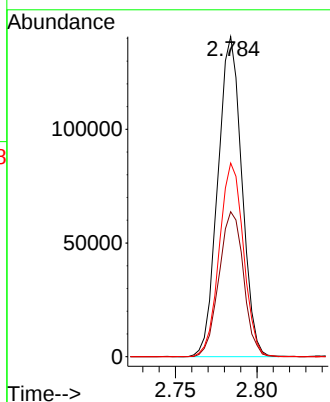
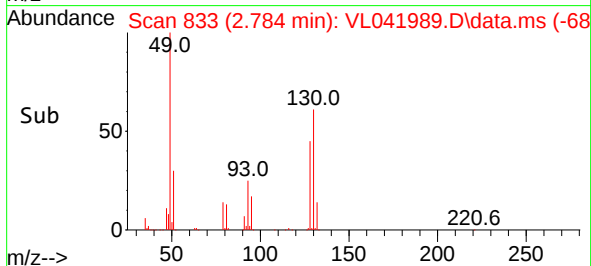
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 14388
Ion Ratio Lower Upper
49 100
128 46.3 24.3 73.0
130 61.0 31.1 93.2

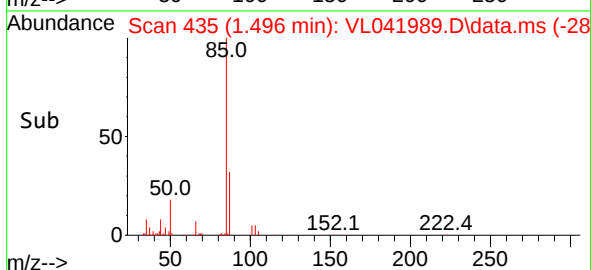
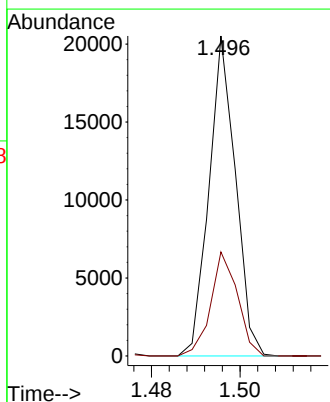
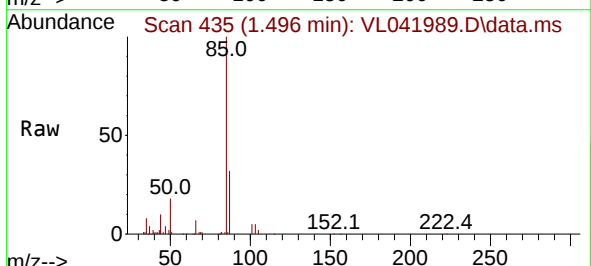
Manual Integrations
APPROVED

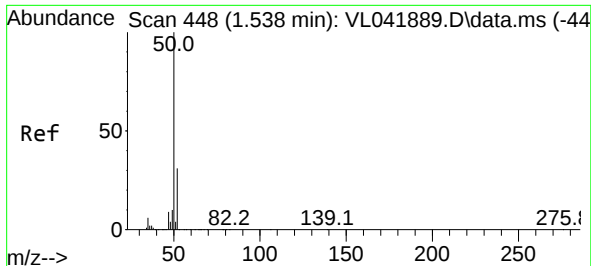
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.436 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Tgt Ion: 85 Resp: 8543
Ion Ratio Lower Upper
85 100
87 32.5 24.9 37.3





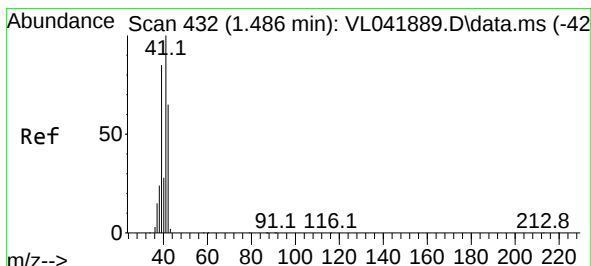
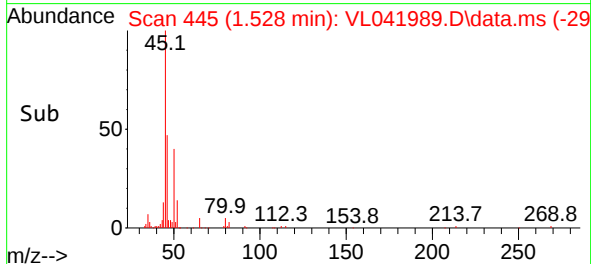
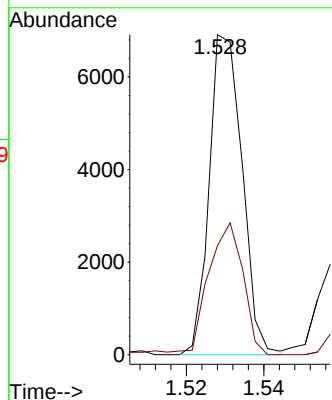
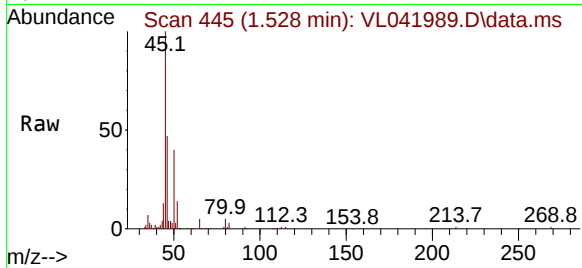
#4
Chloromethane
Concen: 0.554 ppbv
RT: 1.528 min Scan# 448
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 50 Resp: 4082
Ion Ratio Lower Upper
50 100
52 34.1 24.6 36.8

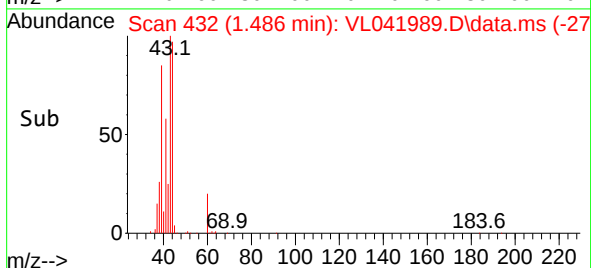
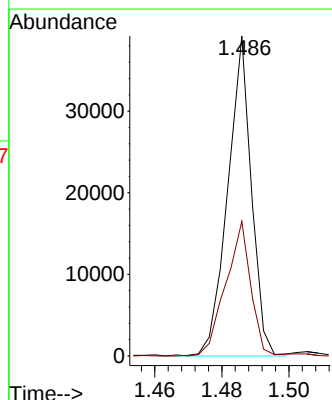
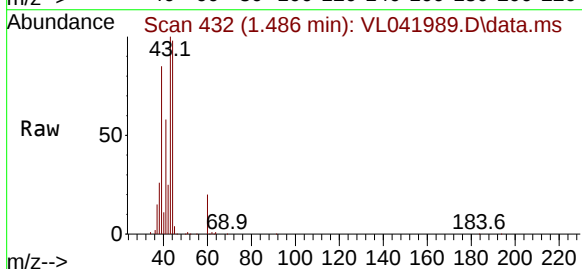
Manual Integrations
APPROVED

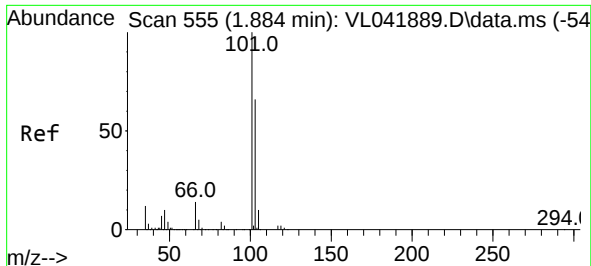
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#9
Propene
Concen: 2.272 ppbv m
RT: 1.486 min Scan# 432
Delta R.T. 0.000 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

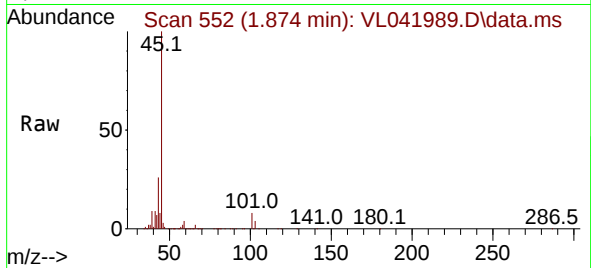
Tgt Ion: 41 Resp: 19213
Ion Ratio Lower Upper
41 100
42 111.8 52.0 78.0#





#11
Trichlorofluoromethane
Concen: 0.260 ppbv m
RT: 1.874 min Scan# 501
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

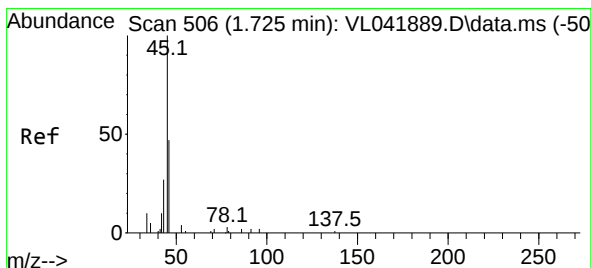
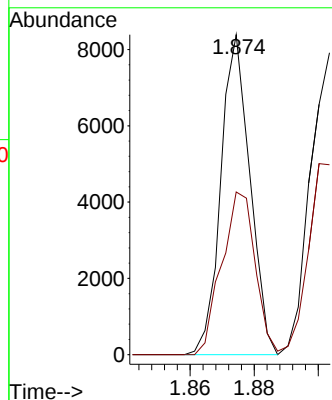
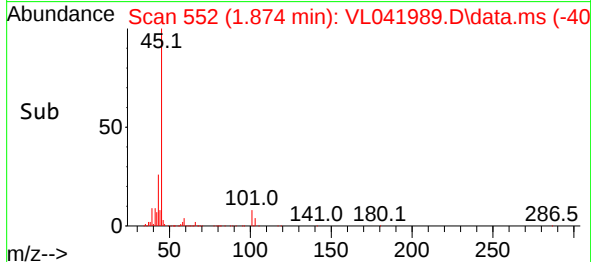
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 5294
Ion Ratio Lower Upper
101 100
103 50.8 53.1 79.7

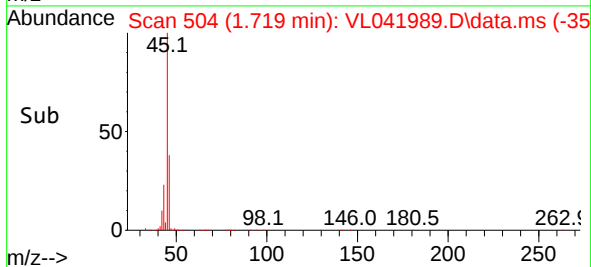
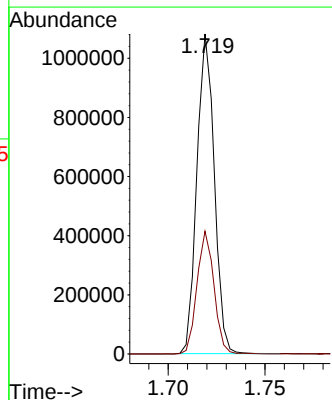
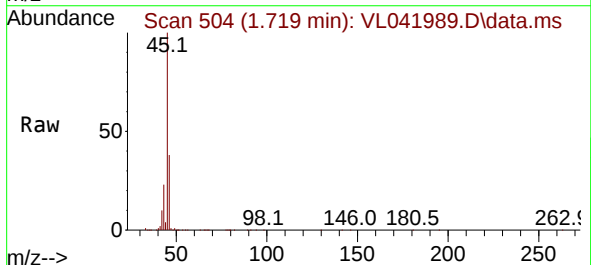
Manual Integrations
APPROVED

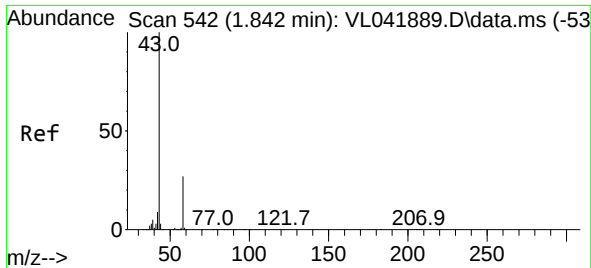
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#13
Ethanol
Concen: 1090.109 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

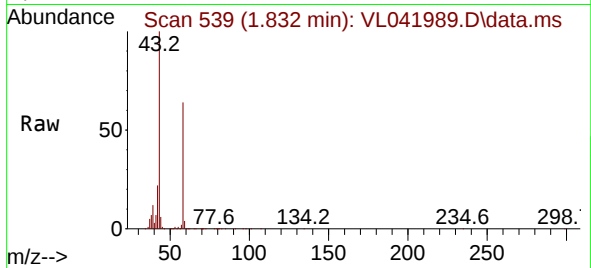
Tgt Ion: 45 Resp: 675322
Ion Ratio Lower Upper
45 100
46 37.7 18.1 72.5





#15
Acetone
Concen: 133.728 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

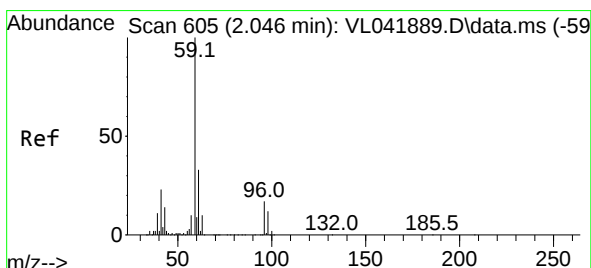
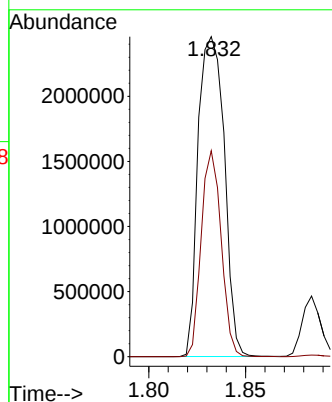
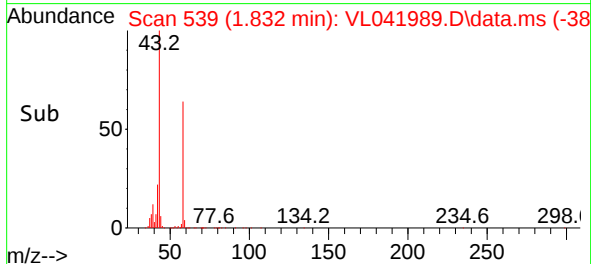
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 2310992
Ion Ratio Lower Upper
43 100
58 49.1 21.9 32.9

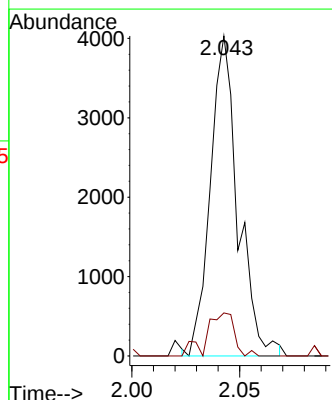
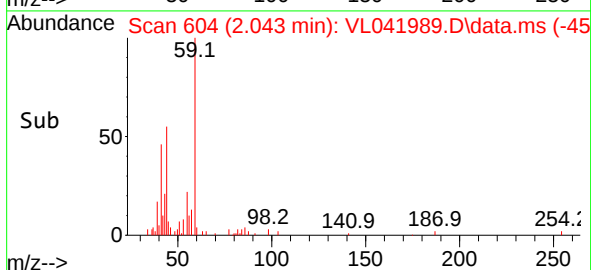
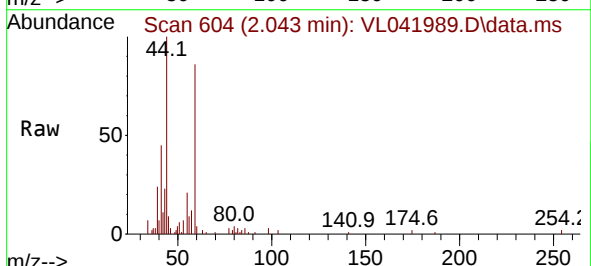
Manual Integrations
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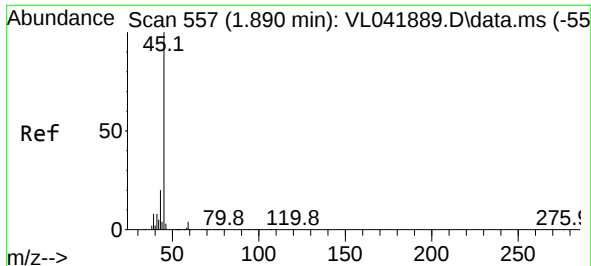
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#17
tert-Butyl alcohol
Concen: 0.169 ppbv m
RT: 2.043 min Scan# 604
Delta R.T. -0.003 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

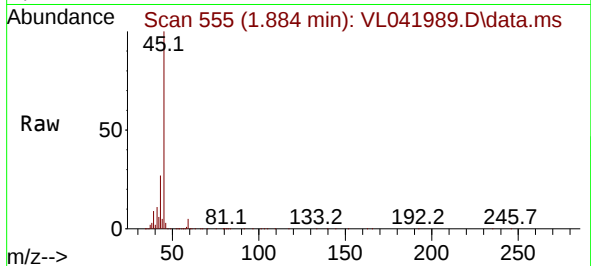
Tgt Ion: 59 Resp: 3605
Ion Ratio Lower Upper
59 100
57 135.0 7.8 11.8





#19
Isopropyl Alcohol
Concen: 122.935 ppbv
RT: 1.884 min Scan# 511
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

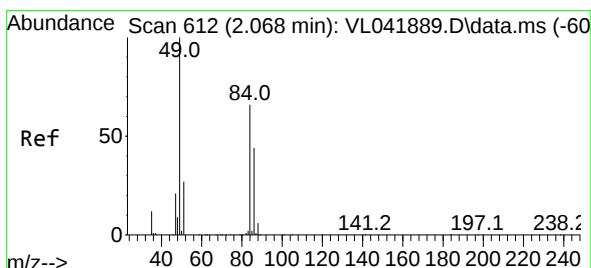
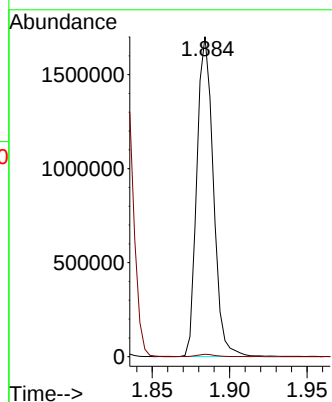
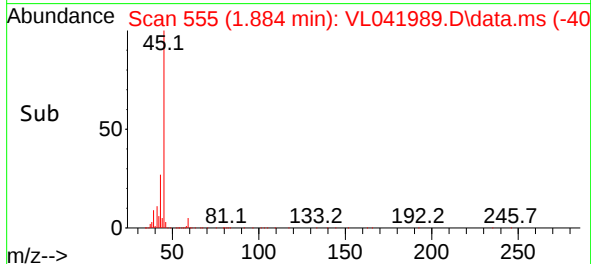
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 1259640
Ion Ratio Lower Upper
45 100
58 90.1 35.0 52.6

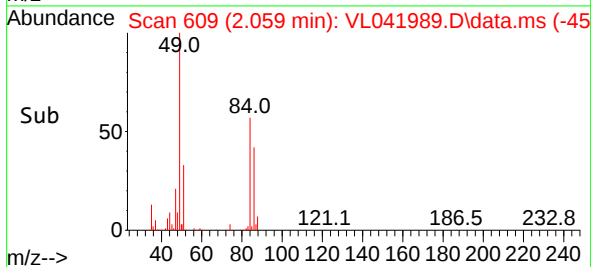
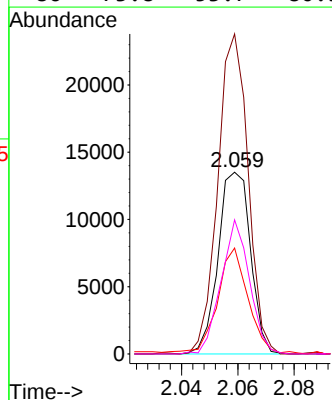
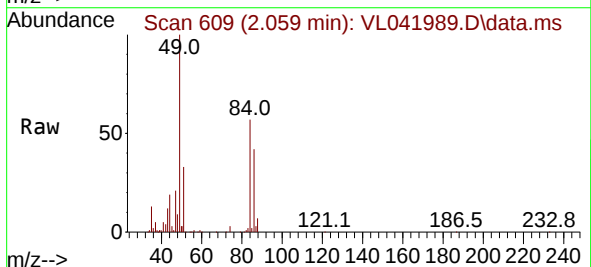
Manual Integrations
APPROVED

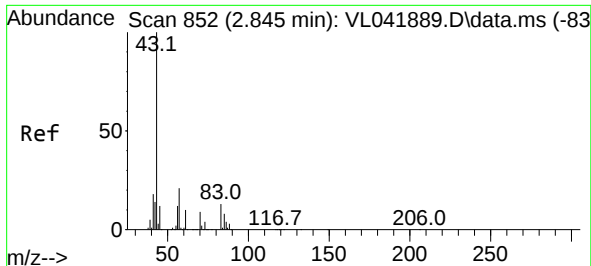
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#20
Methylene Chloride
Concen: 1.581 ppbv
RT: 2.059 min Scan# 609
Delta R.T. -0.010 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

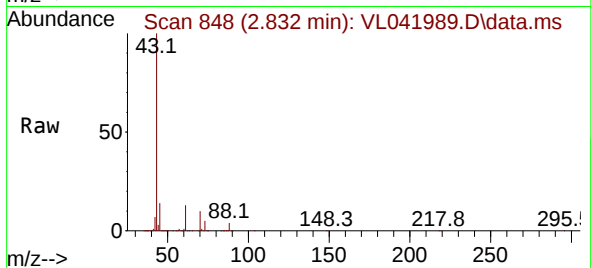
Tgt Ion: 84 Resp: 10800
Ion Ratio Lower Upper
84 100
49 176.0 123.1 184.7
51 57.6 35.8 53.8#
86 73.8 53.7 80.5





#25
Ethyl Acetate
Concen: 11.991 ppbv
RT: 2.832 min Scan# 84
Delta R.T. -0.013 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

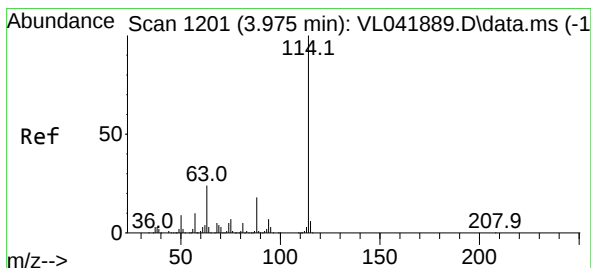
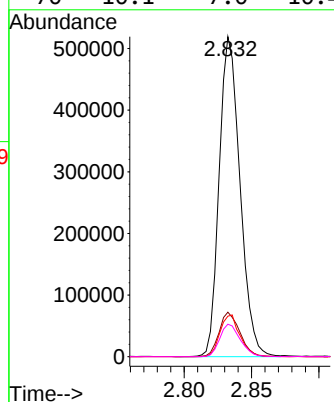
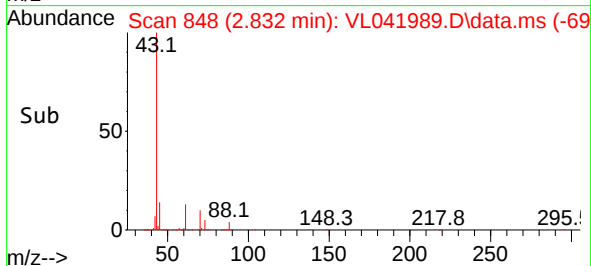
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 55877
Ion Ratio Lower Upper
43 100
45 13.8 8.2 12.2
61 12.6 7.4 11.0
70 10.1 7.0 10.4

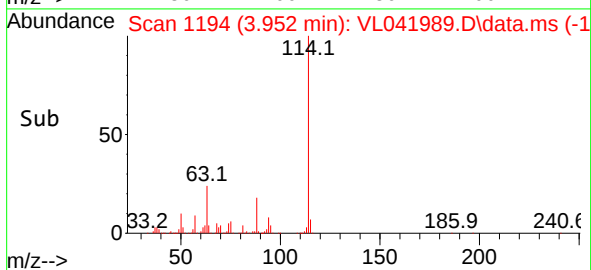
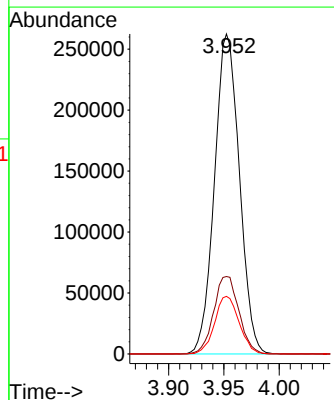
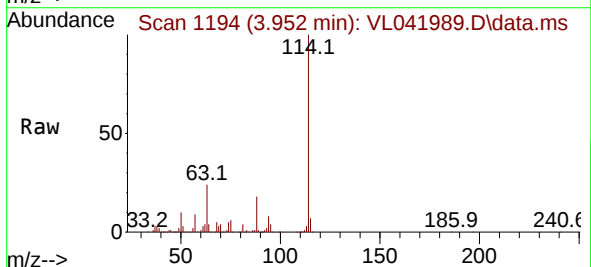
Manual Integrations
APPROVED

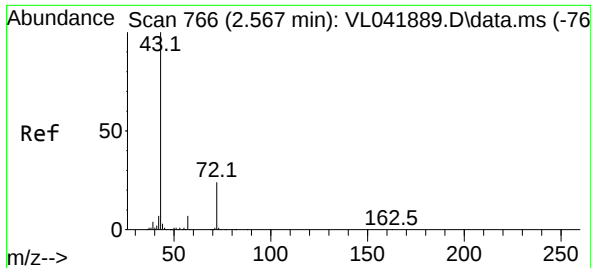
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.952 min Scan# 1194
Delta R.T. -0.022 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

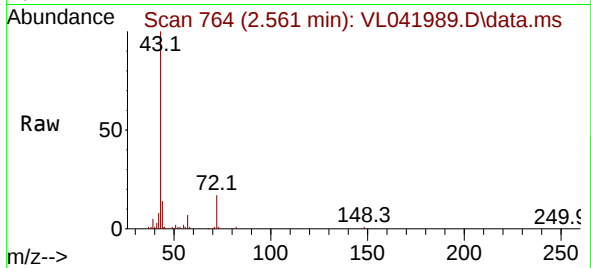
Tgt Ion:114 Resp: 411385
Ion Ratio Lower Upper
114 100
63 24.5 19.8 29.6
88 17.7 14.4 21.6





#34
2-Butanone
Concen: 0.542 ppbv
RT: 2.561 min Scan# 764
Delta R.T. -0.006 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

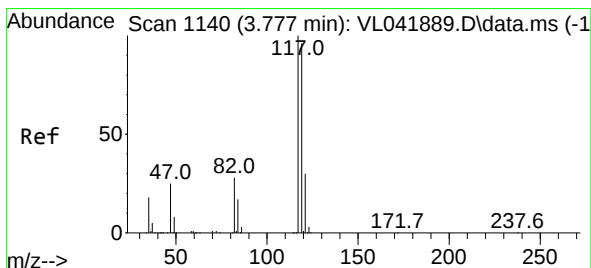
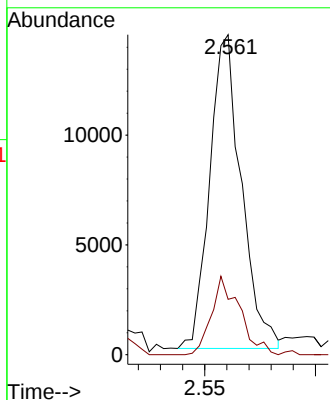
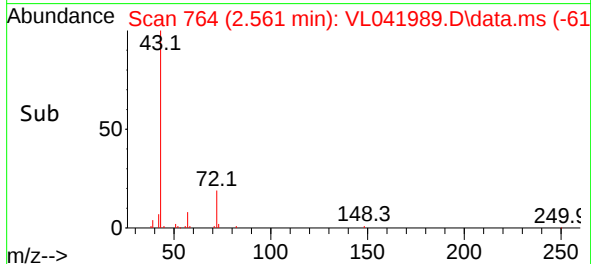
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 14190
Ion Ratio Lower Upper
43 100
72 23.2 18.6 28.0

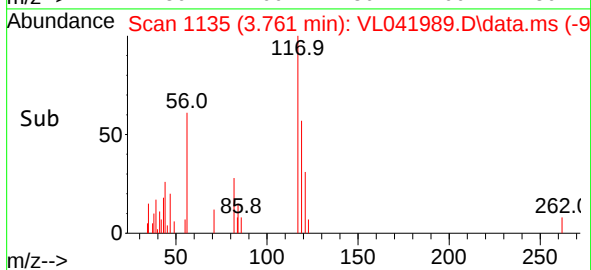
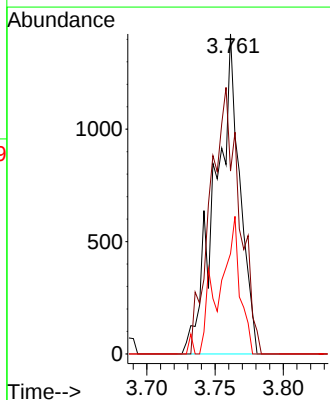
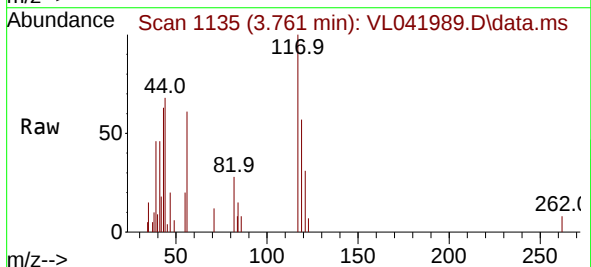
Manual Integrations
APPROVED

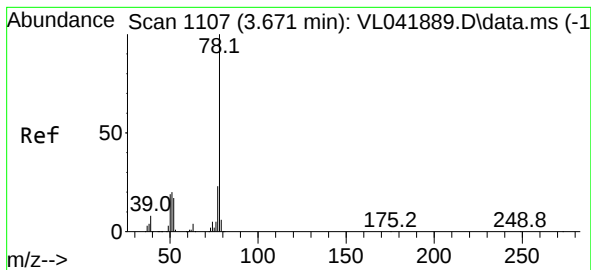
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.761 min Scan# 1135
Delta R.T. -0.016 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Tgt Ion:117 Resp: 1770
Ion Ratio Lower Upper
117 100
119 57.2 76.9 115.3#
121 31.3 23.8 35.6





#36

Benzene

Concen: 0.410 ppbv

RT: 3.651 min Scan# 1101

Delta R.T. -0.019 min

Lab File: VL041989.D

Acq: 10 Feb 2025 15:43

Instrument :

MSVOA_L

ClientSampleId :

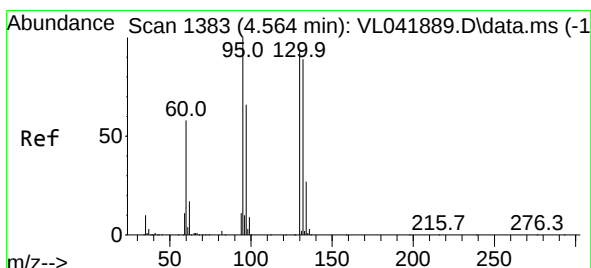
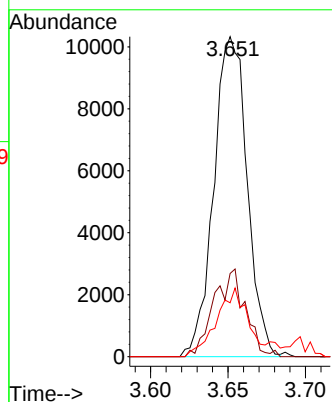
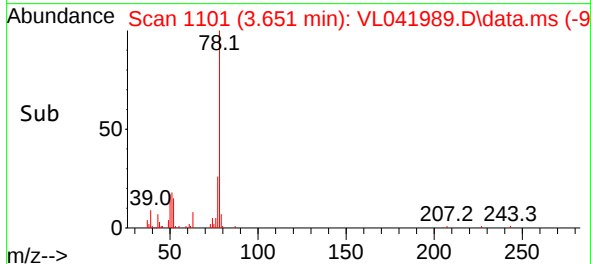
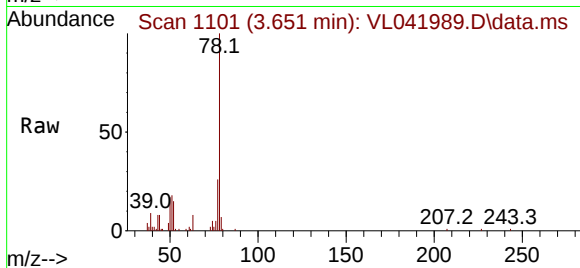
IA1

Tgt Ion: 78	Resp: 1547
Ion Ratio	Lower Upper
78 100	
77 26.0	18.1 27.1
50 16.8	15.2 22.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#38

Trichloroethene

Concen: 0.032 ppbv m

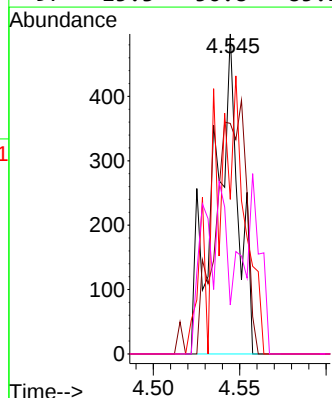
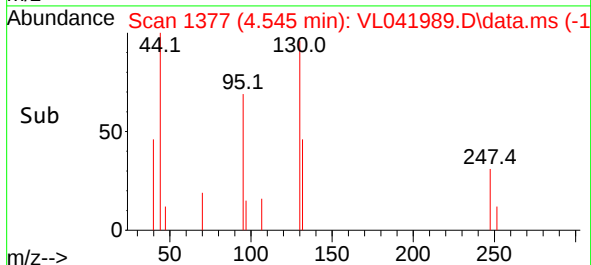
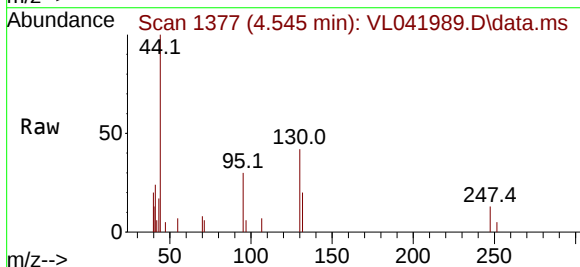
RT: 4.545 min Scan# 1377

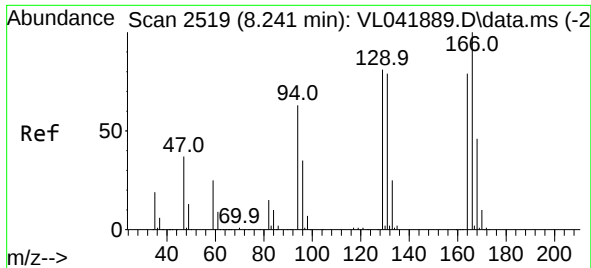
Delta R.T. -0.019 min

Lab File: VL041989.D

Acq: 10 Feb 2025 15:43

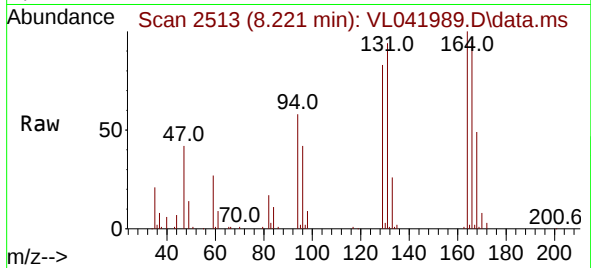
Tgt Ion:130	Resp: 484
Ion Ratio	Lower Upper
130 100	
95 72.0	85.8 128.8#
132 48.3	76.5 114.7#
97 15.3	56.8 85.2#





#52
Tetrachloroethene
Concen: 1.534 ppbv
RT: 8.221 min Scan# 2113
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

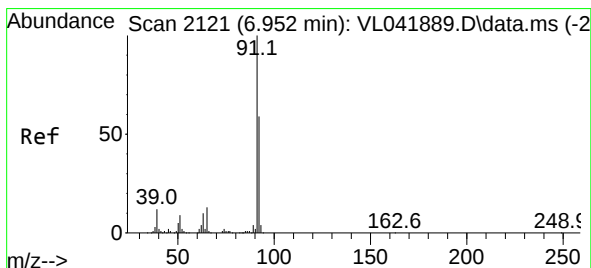
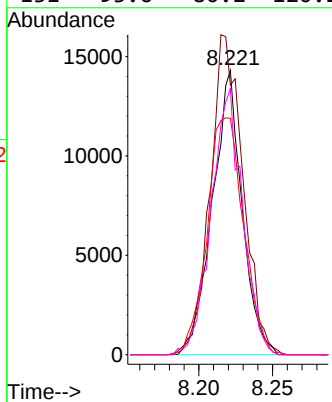
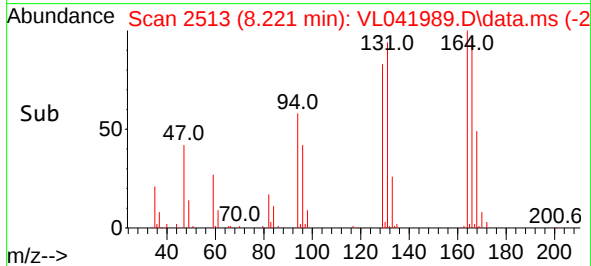
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 2007
Ion Ratio Lower Upper
164 100
166 93.5 100.8 151.2
129 82.4 82.0 123.0
131 93.6 80.2 120.2

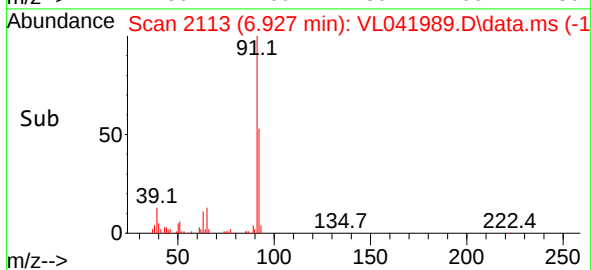
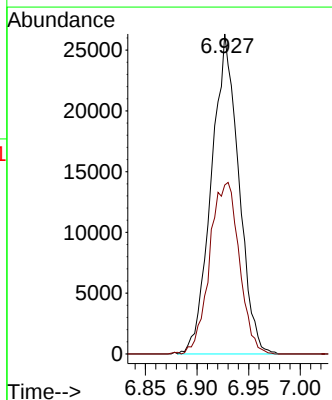
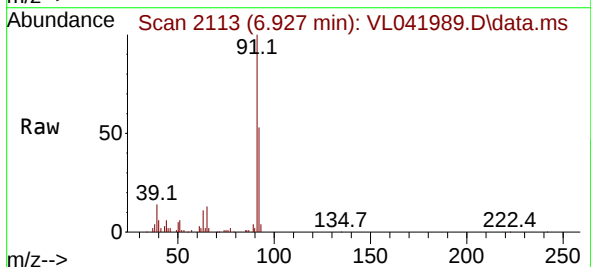
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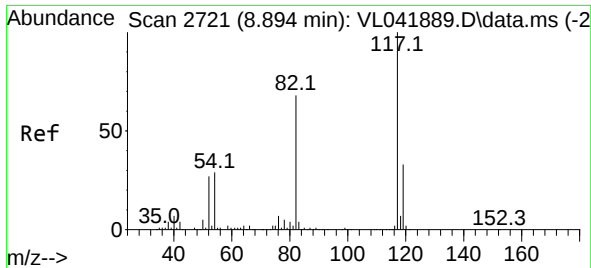
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 1.180 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

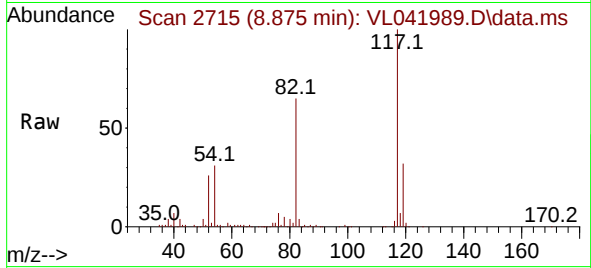
Tgt Ion: 91 Resp: 48493
Ion Ratio Lower Upper
91 100
92 58.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

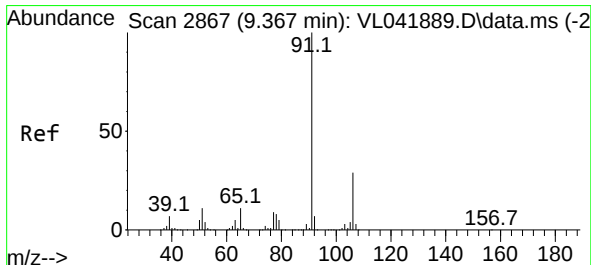
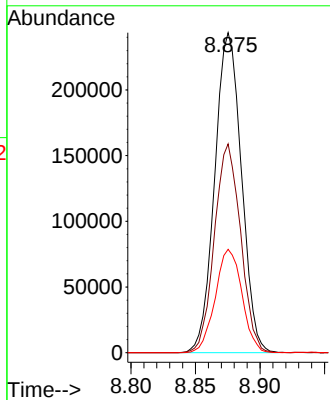
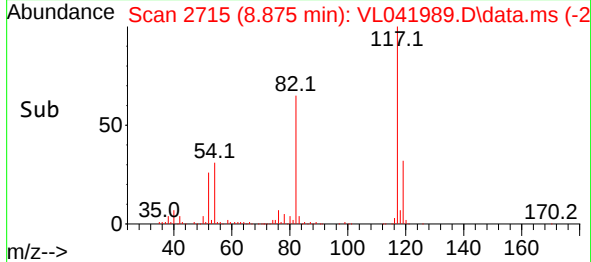
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 350508
Ion Ratio Lower Upper
117 100
82 64.0 54.2 81.4
119 32.3 25.0 37.6

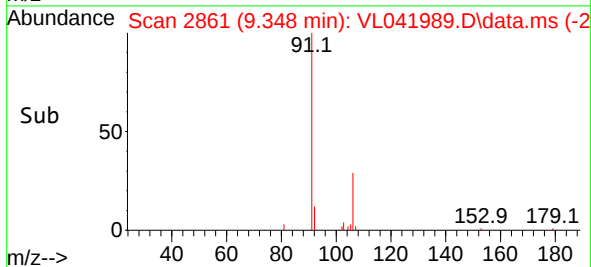
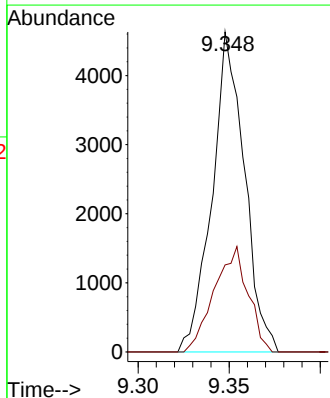
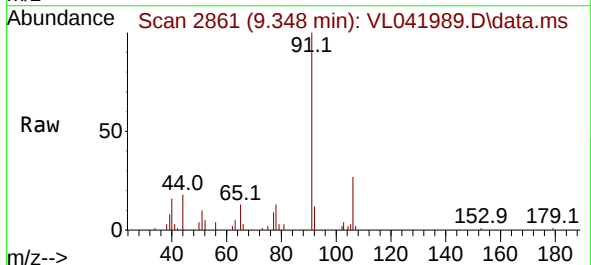
Manual Integrations
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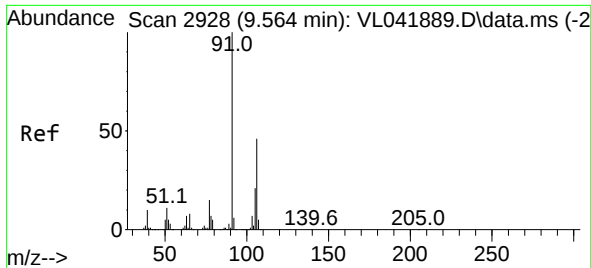
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#58
Ethyl Benzene
Concen: 0.104 ppbv
RT: 9.348 min Scan# 2861
Delta R.T. -0.019 min
Lab File: VL041989.D
Acq: 10 Feb 2025 15:43

Tgt Ion: 91 Resp: 5704
Ion Ratio Lower Upper
91 100
106 27.2 23.1 34.7





#59

m/p-Xylene

Concen: 0.307 ppbv m

RT: 9.523 min Scan# 2915

Delta R.T. -0.042 min

Lab File: VL041889.D

Acq: 10 Feb 2025 15:43

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 13469

Ion Ratio Lower Upper

91 100

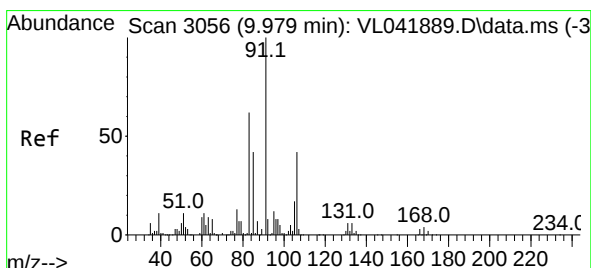
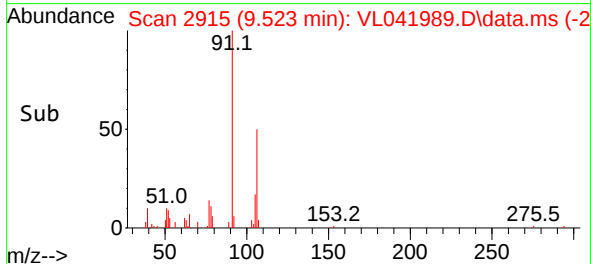
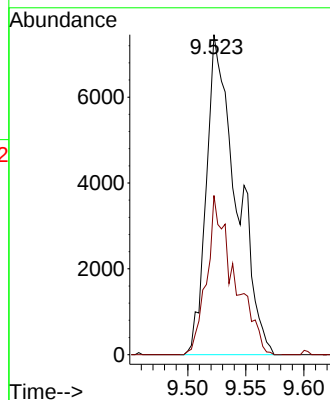
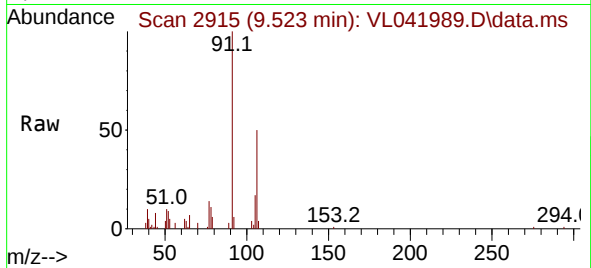
106 0.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

o-Xylene

Concen: 0.138 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. -0.022 min

Lab File: VL041889.D

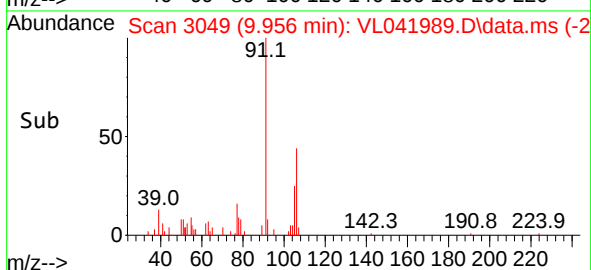
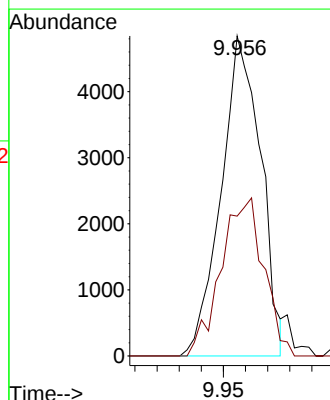
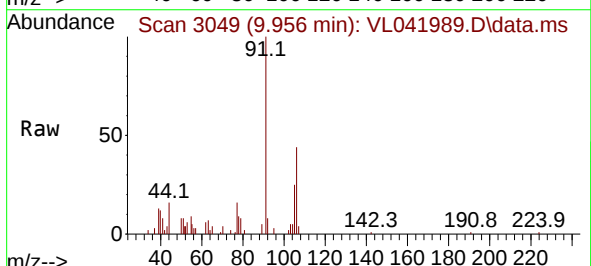
Acq: 10 Feb 2025 15:43

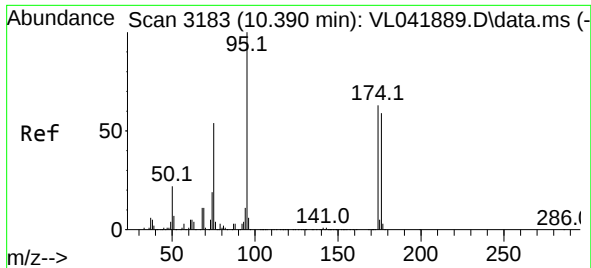
Tgt Ion: 91 Resp: 6020

Ion Ratio Lower Upper

91 100

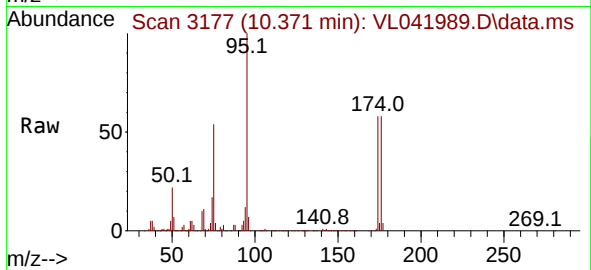
106 53.4 21.3 63.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.361 ppbv
 RT: 10.371 min Scan# 31
 Delta R.T. -0.019 min
 Lab File: VL041989.D
 Acq: 10 Feb 2025 15:43

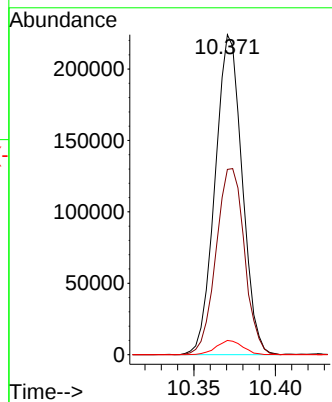
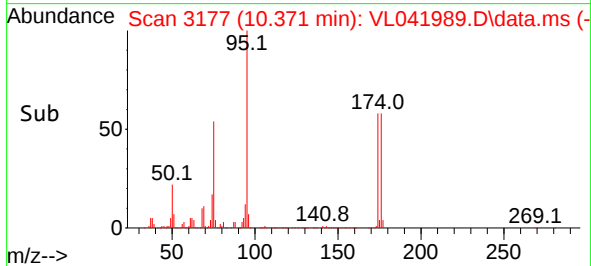
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 95 Resp: 25844
 Ion Ratio Lower Upper
 95 100
 174 61.3 49.0 73.4
 175 4.4 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	02/04/25
Project:	1123 & 1125 Flatbush Ave Brooklyn, NY	Date Received:	02/05/25
Client Sample ID:	IA2	SDG No.:	Q1303
Lab Sample ID:	Q1303-04	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
VL041991.D	1		02/10/25 16:50	VL021025

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	0.38	1.56	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	0.15	0.70	J	0.47	2.34	ug/m3
71-43-2	Benzene	0.40	1.28	J	0.29	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.74	2.79		0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	0.74	5.02		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	0.080	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	9.40			65 - 135	94%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	137000		2.781			
540-36-3	1,4-Difluorobenzene	392000		3.949			
3114-55-4	Chlorobenzene-d5	332000		8.875			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041991.D
 Acq On : 10 Feb 2025 16:50
 Operator : SY/MD
 Sample : Q1303-04
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:26:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

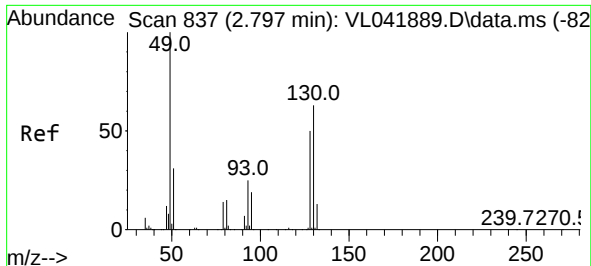
QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

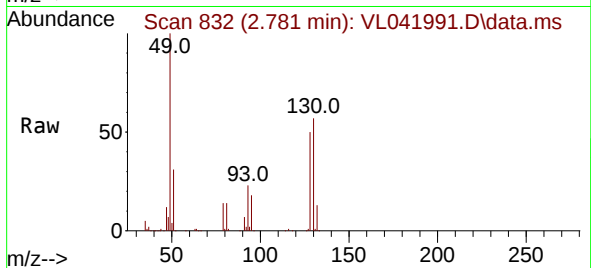
Internal Standards						
1) Bromochloromethane	2.781	49	137412	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	391979	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	332286	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.367	95	245935	9.397	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.000%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.496	85	8773	0.469	ppbv	97
4) Chloromethane	1.528	50	4166	0.592	ppbv	92
9) Propene	1.483	41	12742m	1.577	ppbv	
10) Heptane	4.965	43	8089m	0.375	ppbv	
11) Trichlorofluoromethane	1.874	101	4497	0.231	ppbv	88
13) Ethanol	1.719	45	379767	641.882	ppbv	87
15) Acetone	1.829	43	1573380	95.332	ppbv #	85
17) tert-Butyl alcohol	2.043	59	2416m	0.119	ppbv	
19) Isopropyl Alcohol	1.881	45	842038	86.048	ppbv #	66
20) Methylene Chloride	2.056	84	13805	2.117	ppbv	94
25) Ethyl Acetate	2.832	43	222539	5.000	ppbv #	93
34) 2-Butanone	2.554	43	8013	0.321	ppbv	96
35) Carbon Tetrachloride	3.752	117	1632	0.066	ppbv #	50
36) Benzene	3.645	78	14383	0.400	ppbv	94
44) 2,2,4-Trimethylpentane	4.632	57	8568	0.147	ppbv #	75
52) Tetrachloroethene	8.218	164	9202m	0.738	ppbv	
53) Toluene	6.920	91	28898m	0.738	ppbv	
59) m/p-Xylene	9.526	91	12192m	0.293	ppbv	
60) o-Xylene	9.960	91	4970	0.120	ppbv	90

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

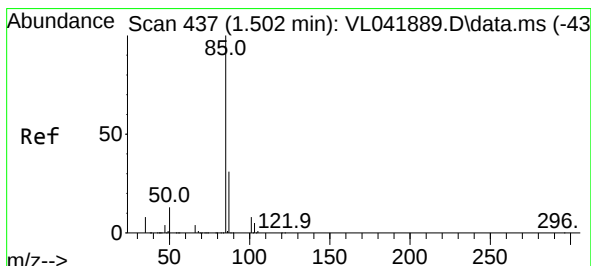
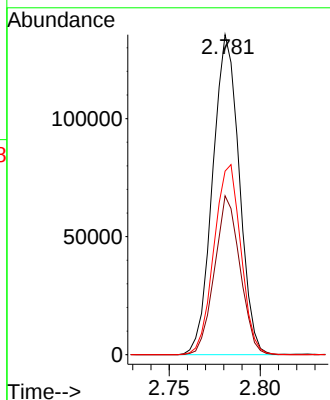
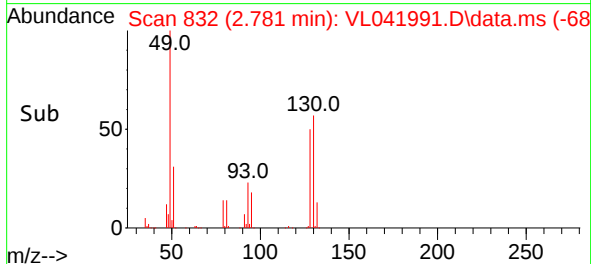
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 13741
Ion Ratio Lower Upper
49 100
128 47.5 24.3 73.0
130 60.3 31.1 93.2

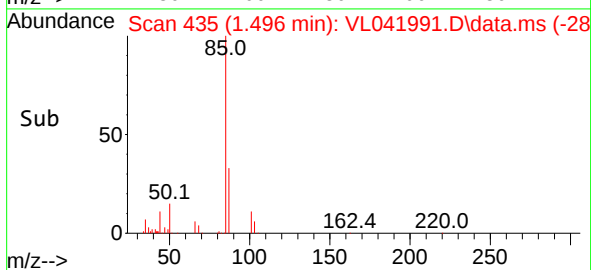
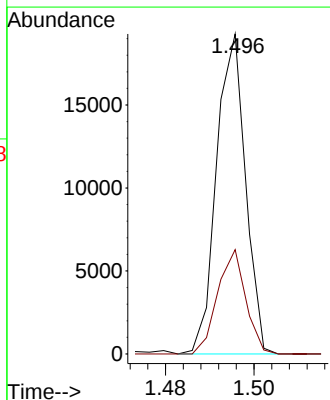
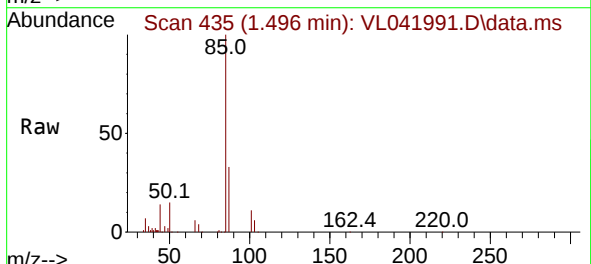
Manual Integrations
APPROVED

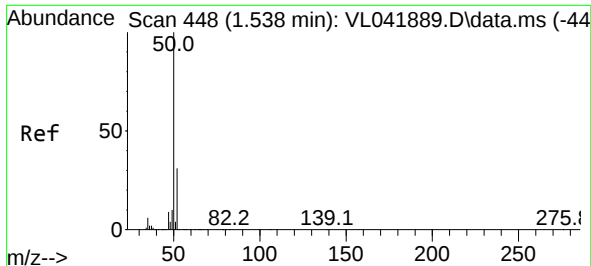
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.469 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

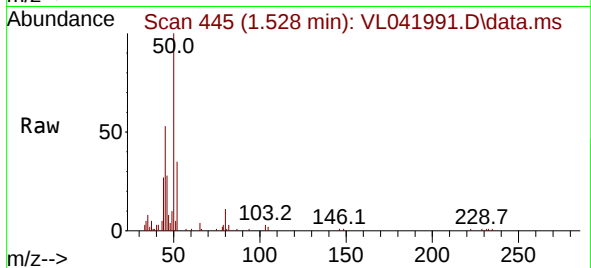
Tgt Ion: 85 Resp: 8773
Ion Ratio Lower Upper
85 100
87 32.6 24.9 37.3





#4
Chloromethane
Concen: 0.592 ppbv
RT: 1.528 min Scan# 448
Delta R.T. -0.009 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

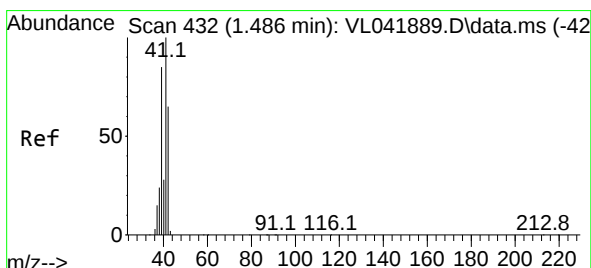
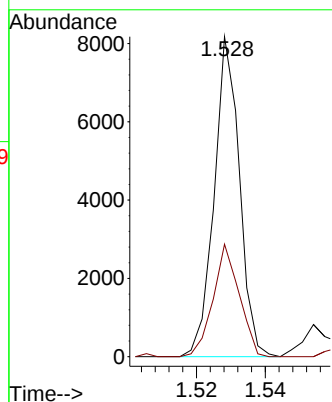
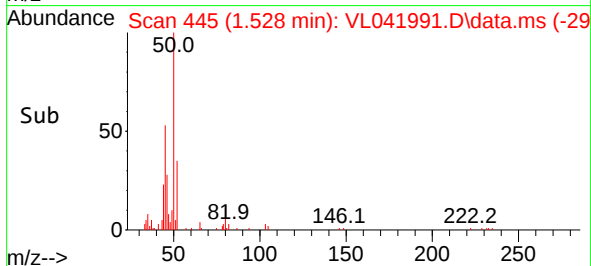
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 50 Resp: 4160
Ion Ratio Lower Upper
50 100
52 35.2 24.6 36.8

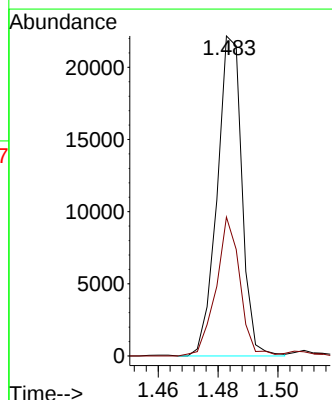
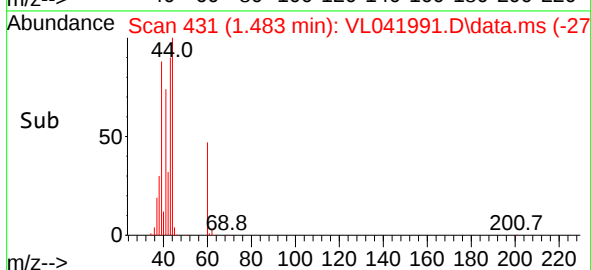
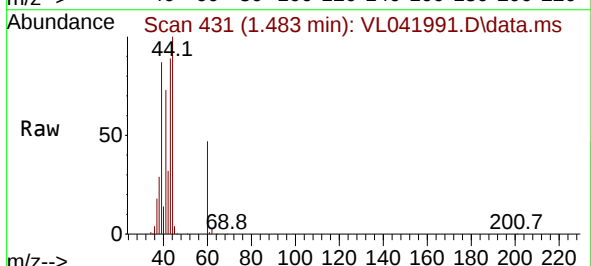
Manual Integrations
APPROVED

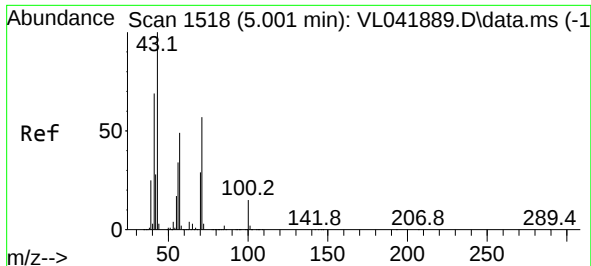
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#9
Propene
Concen: 1.577 ppbv m
RT: 1.483 min Scan# 431
Delta R.T. -0.003 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

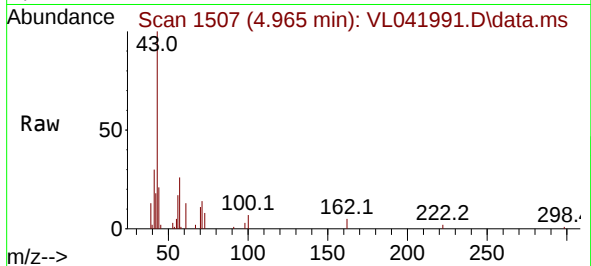
Tgt Ion: 41 Resp: 12742
Ion Ratio Lower Upper
41 100
42 101.0 52.0 78.0#





#10
Heptane
Concen: 0.375 ppbv m
RT: 4.965 min Scan# 1518
Delta R.T. -0.035 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

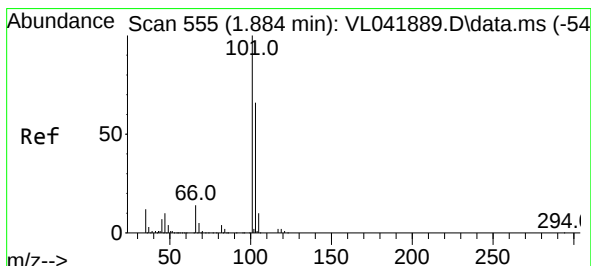
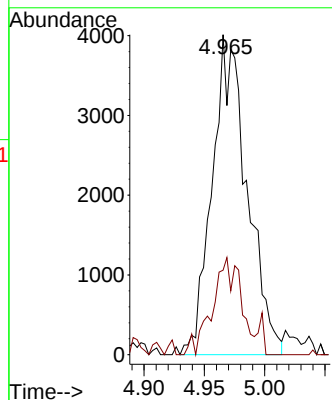
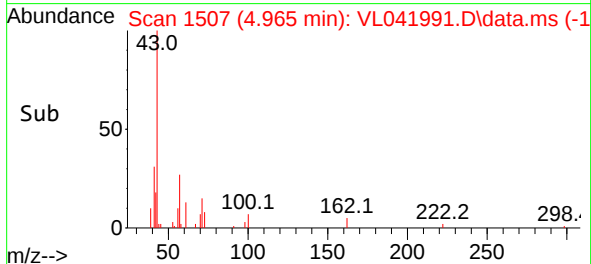
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 8089
Ion Ratio Lower Upper
43 100
57 26.8 41.0 61.4

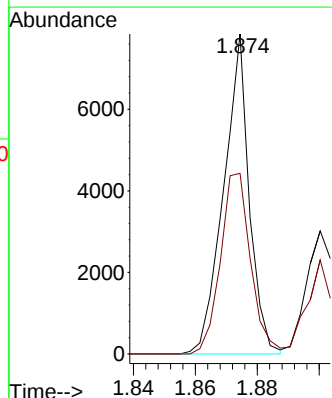
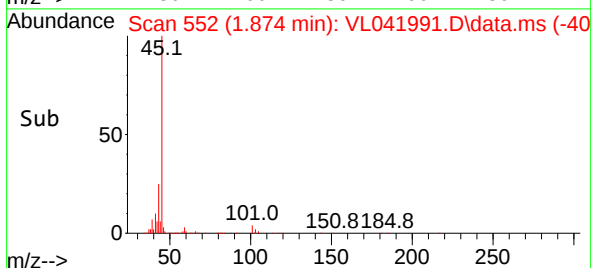
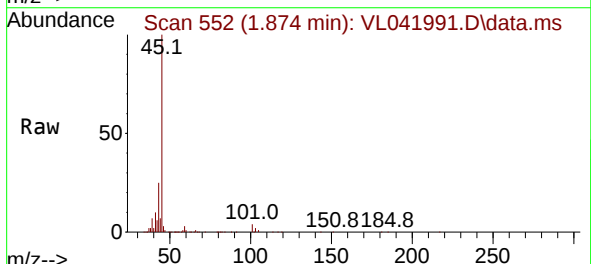
Manual Integrations
APPROVED

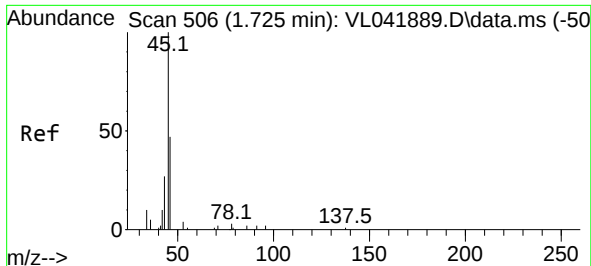
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#11
Trichlorofluoromethane
Concen: 0.231 ppbv
RT: 1.874 min Scan# 552
Delta R.T. -0.009 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

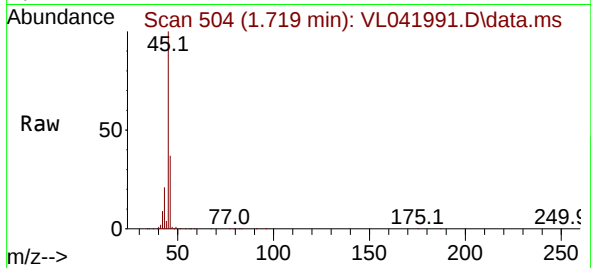
Tgt Ion:101 Resp: 4497
Ion Ratio Lower Upper
101 100
103 56.5 53.1 79.7





#13
Ethanol
Concen: 641.882 ppbv
RT: 1.719 min Scan# 506
Delta R.T. -0.006 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

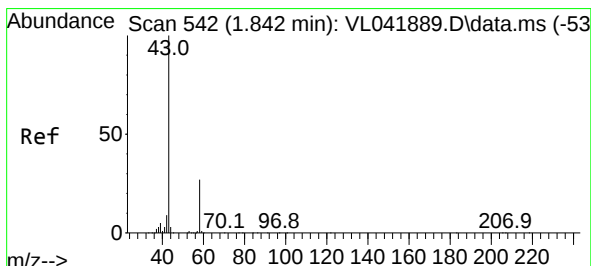
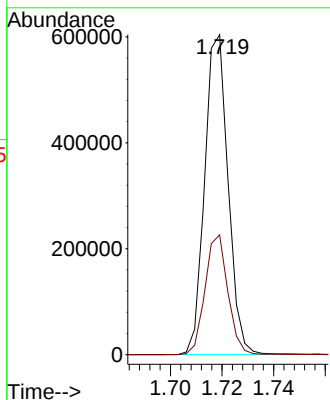
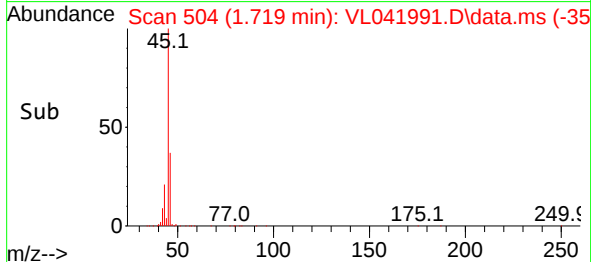
Instrument :
MSVOA_L
ClientSampleId :
IA2



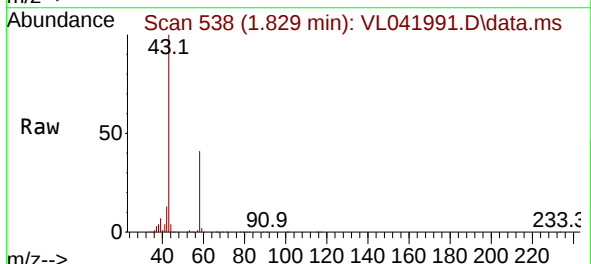
Tgt Ion: 45 Resp: 37976
Ion Ratio Lower Upper
45 100
46 36.9 18.1 72.5

Manual Integrations
APPROVED

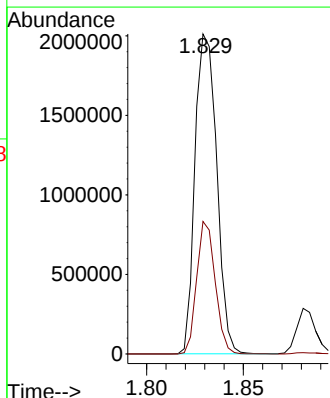
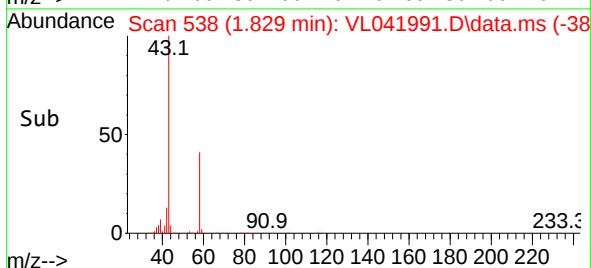
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

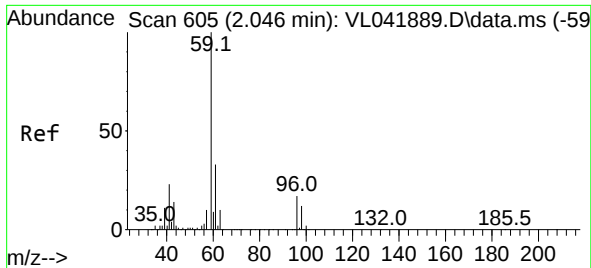


#15
Acetone
Concen: 95.332 ppbv
RT: 1.829 min Scan# 538
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50



Tgt Ion: 43 Resp: 1573380
Ion Ratio Lower Upper
43 100
58 35.3 21.9 32.9#





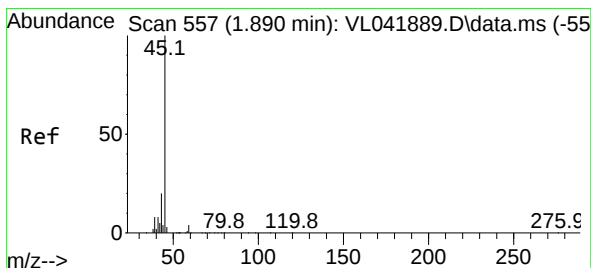
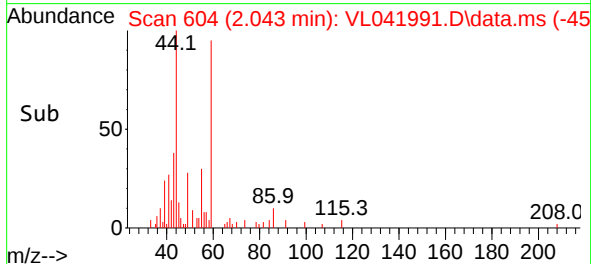
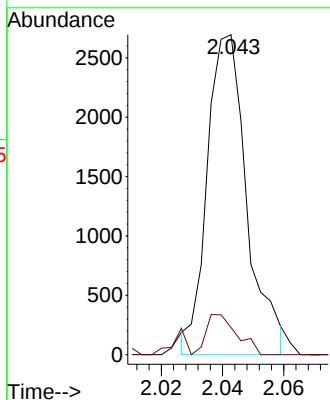
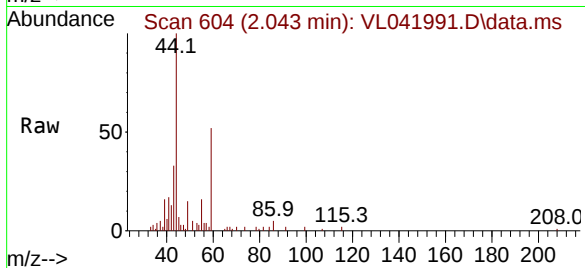
#17
tert-Butyl alcohol
Concen: 0.119 ppbv m
RT: 2.043 min Scan# 605
Delta R.T. -0.003 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 59 Resp: 2410
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8

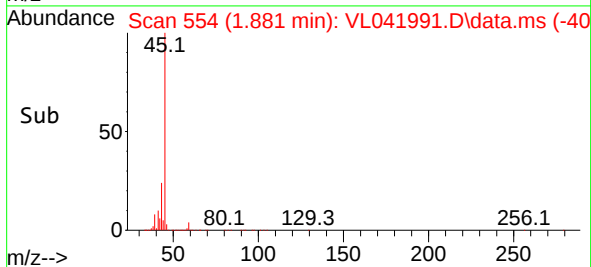
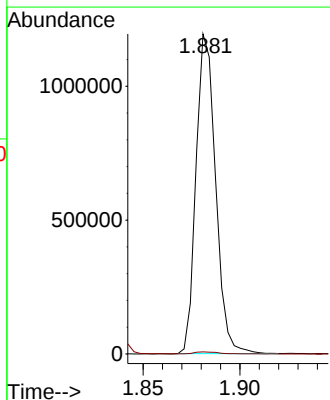
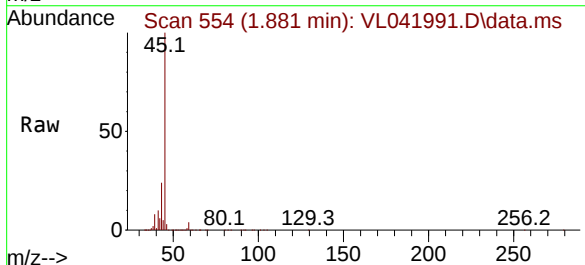
Manual Integrations
APPROVED

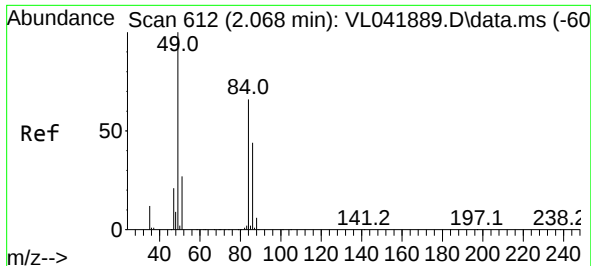
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#19
Isopropyl Alcohol
Concen: 86.048 ppbv
RT: 1.881 min Scan# 554
Delta R.T. -0.009 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

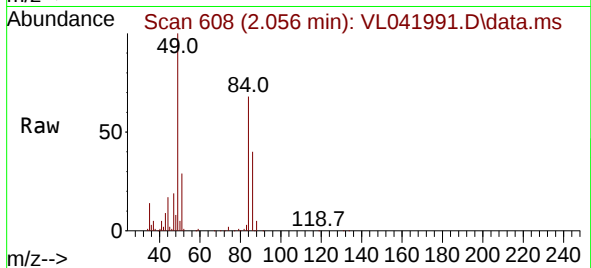
Tgt Ion: 45 Resp: 842038
Ion Ratio Lower Upper
45 100
58 66.0 35.0 52.6





#20
Methylene Chloride
Concen: 2.117 ppbv
RT: 2.056 min Scan# 608
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
IA2

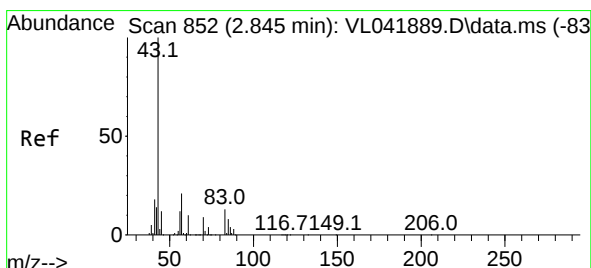
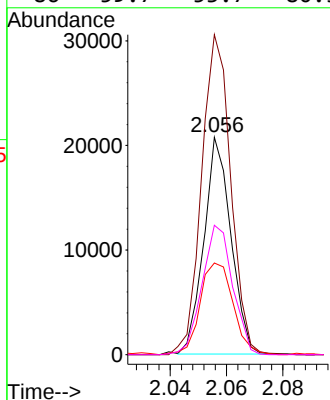
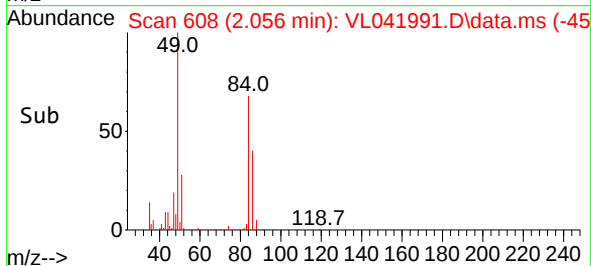


Tgt Ion: 84 Resp: 1380

Ion	Ratio	Lower	Upper
84	100		
49	147.1	123.1	184.7
51	42.3	35.8	53.8
86	59.7	53.7	80.5

Manual Integrations
APPROVED

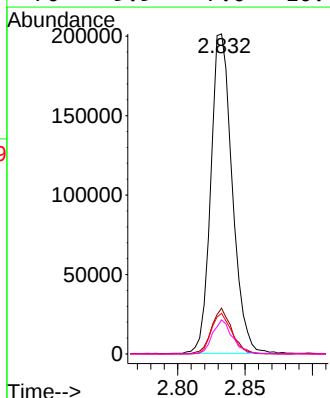
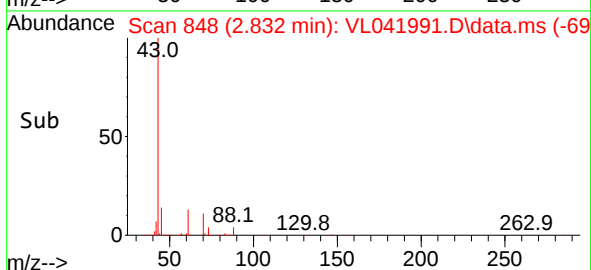
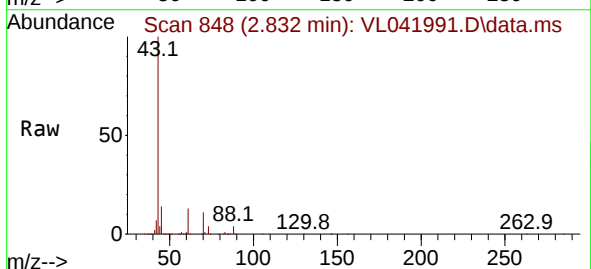
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

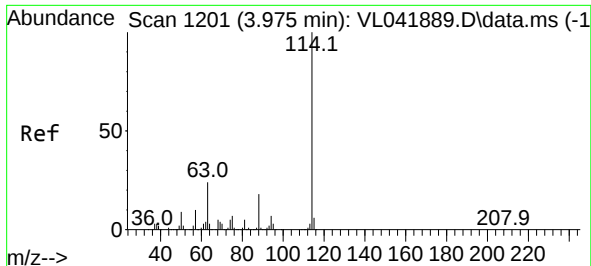


#25
Ethyl Acetate
Concen: 5.000 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Tgt Ion: 43 Resp: 222539

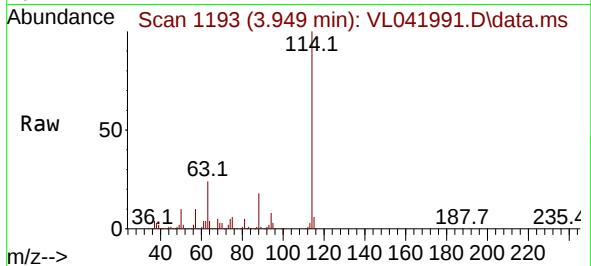
Ion	Ratio	Lower	Upper
43	100		
45	13.8	8.2	12.2#
61	12.3	7.4	11.0#
70	9.9	7.0	10.4





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.949 min Scan# 1119
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

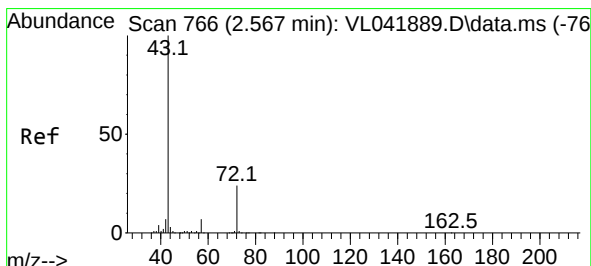
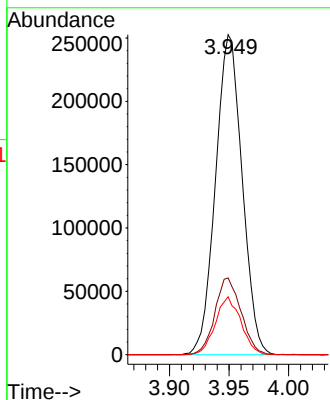
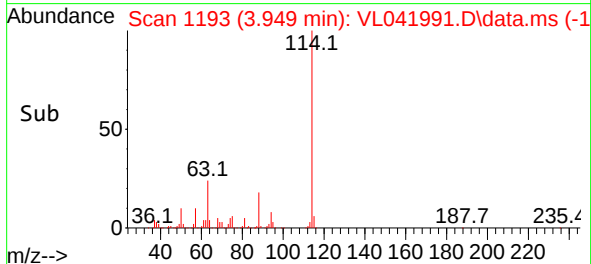
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:114 Resp: 391979
Ion Ratio Lower Upper
114 100
63 23.6 19.8 29.6
88 17.3 14.4 21.6

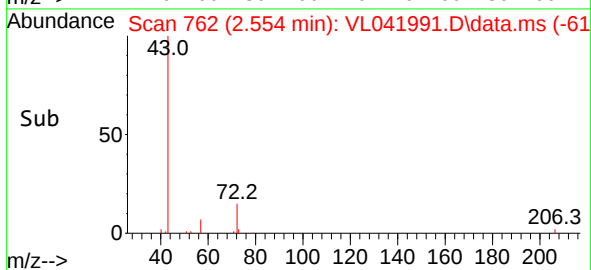
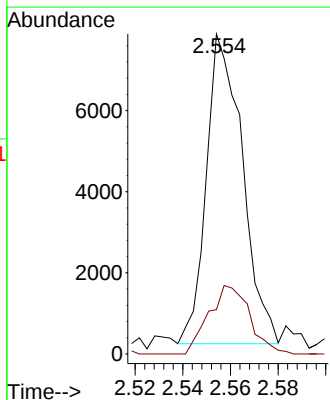
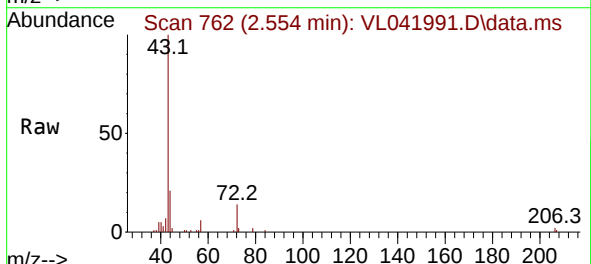
Manual Integrations
APPROVED

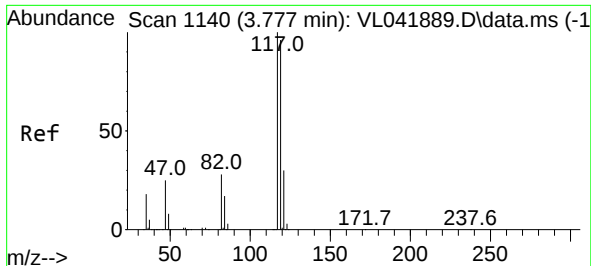
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#34
2-Butanone
Concen: 0.321 ppbv
RT: 2.554 min Scan# 762
Delta R.T. -0.013 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

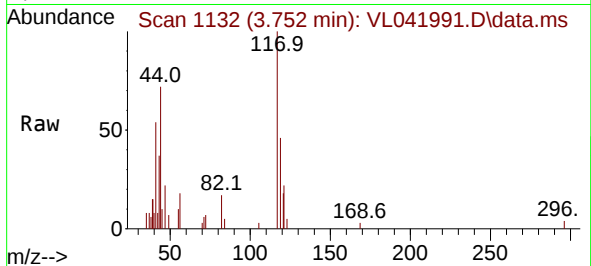
Tgt Ion: 43 Resp: 8013
Ion Ratio Lower Upper
43 100
72 25.1 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.066 ppbv
RT: 3.752 min Scan# 1132
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

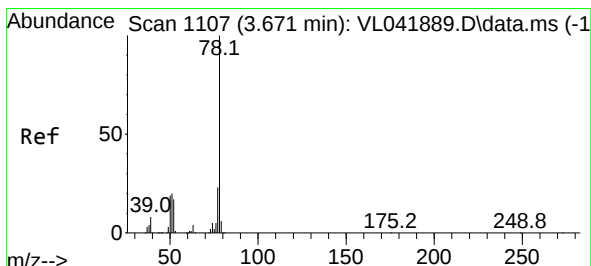
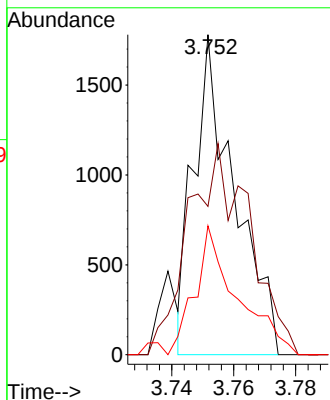
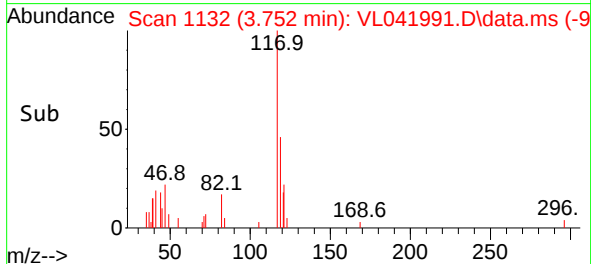
Instrument :
MSVOA_L
ClientSampleId :
IA2



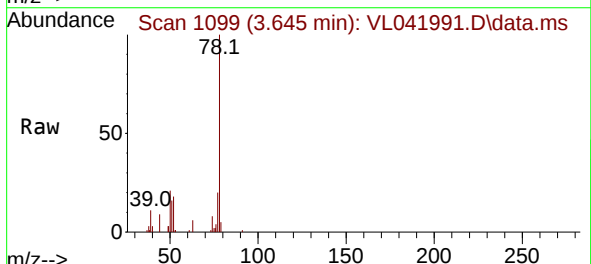
Tgt Ion: 117 Resp: 1632
Ion Ratio Lower Upper
117 100
119 34.4 76.9 115.3
121 34.6 23.8 35.6

Manual Integrations
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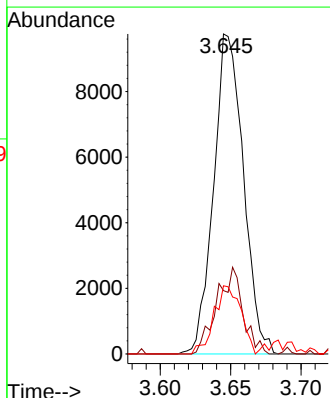
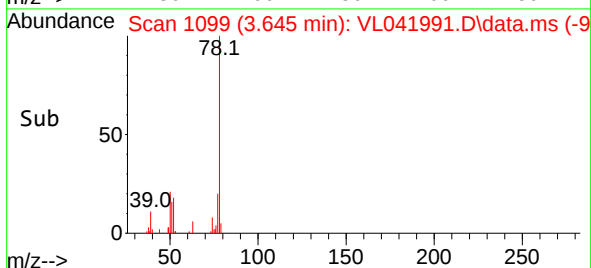
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

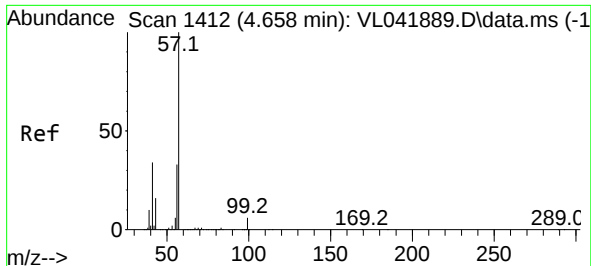


#36
Benzene
Concen: 0.400 ppbv
RT: 3.645 min Scan# 1099
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50



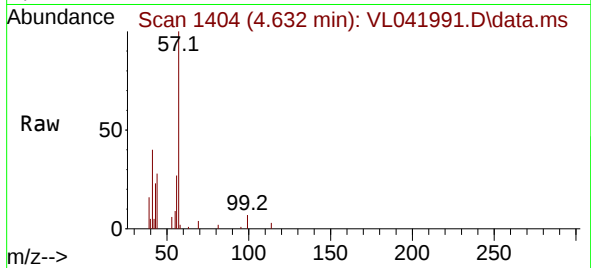
Tgt Ion: 78 Resp: 14383
Ion Ratio Lower Upper
78 100
77 19.8 18.1 27.1
50 21.3 15.2 22.8





#44
2,2,4-Trimethylpentane
Concen: 0.147 ppbv
RT: 4.632 min Scan# 1412
Delta R.T. -0.026 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

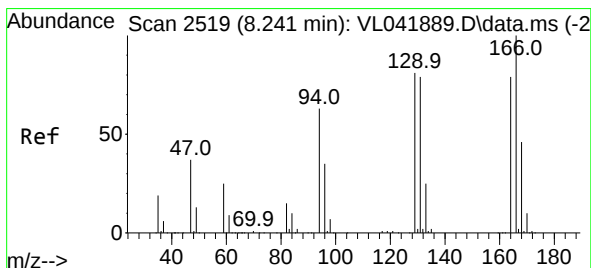
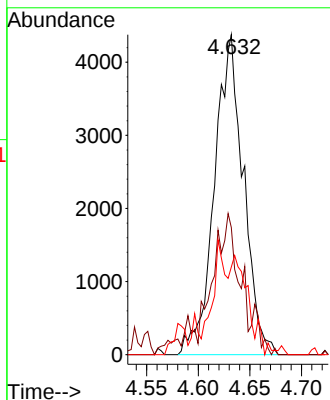
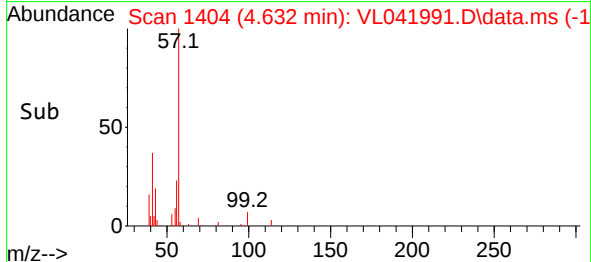
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 57 Resp: 856
Ion Ratio Lower Upper
57 100
41 49.9 26.6 40.0
56 43.7 25.4 38.2

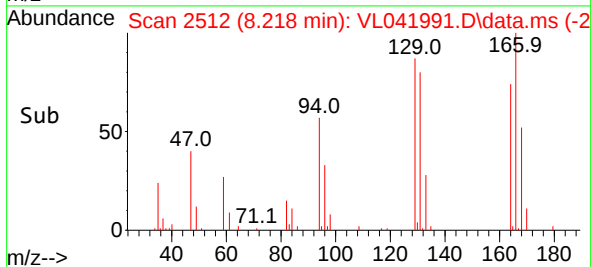
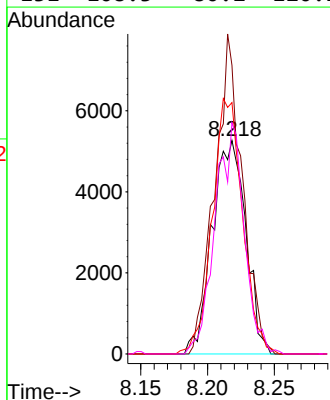
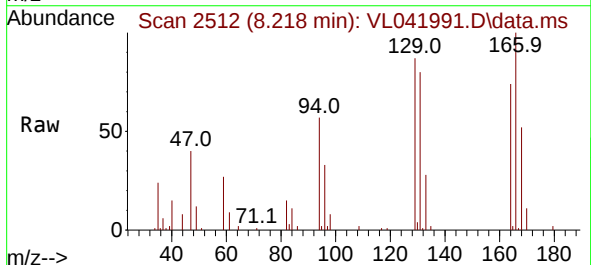
Manual Integrations
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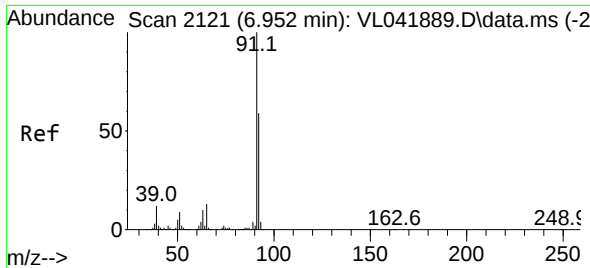
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Tetrachloroethene
Concen: 0.738 ppbv m
RT: 8.218 min Scan# 2512
Delta R.T. -0.022 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

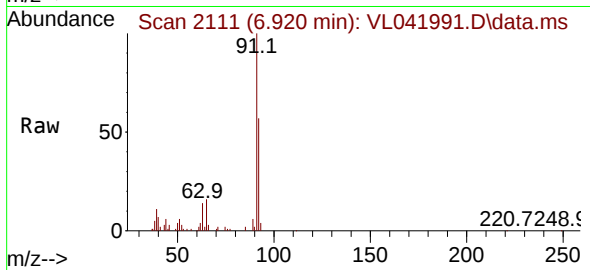
Tgt Ion:164 Resp: 9202
Ion Ratio Lower Upper
164 100
166 135.2 100.8 151.2
129 117.7 82.0 123.0
131 108.3 80.2 120.2





#53
Toluene
Concen: 0.738 ppbv m
RT: 6.920 min Scan# 2111
Delta R.T. -0.032 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

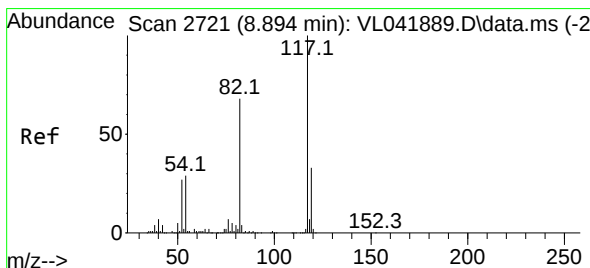
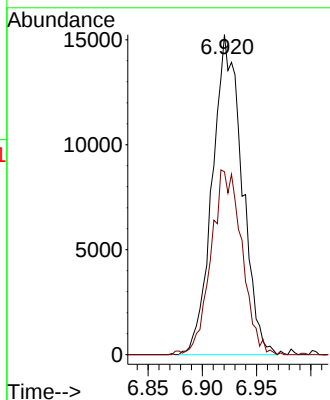
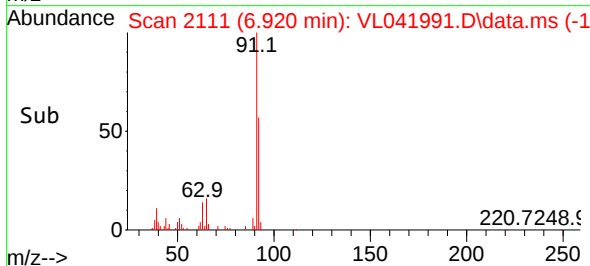
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 91 Resp: 28898
Ion Ratio Lower Upper
91 100
92 60.3 47.4 71.0

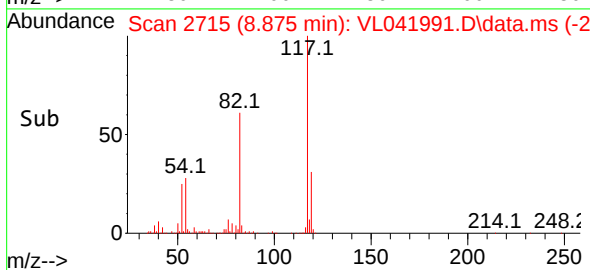
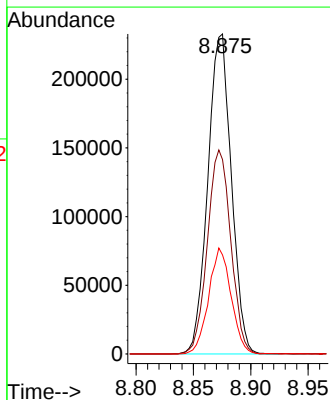
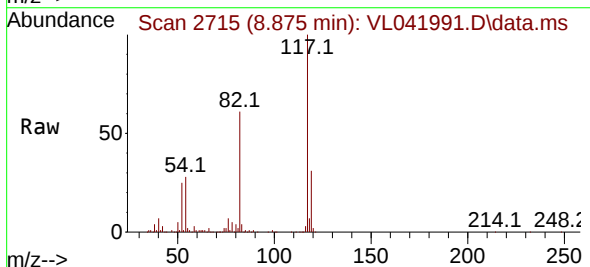
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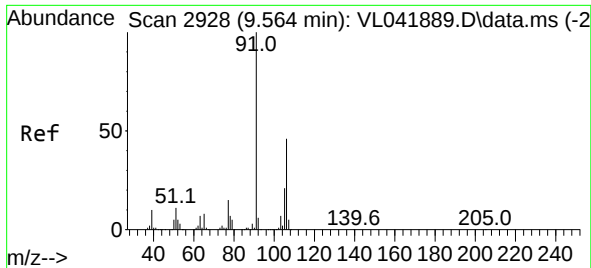
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Tgt Ion:117 Resp: 332286
Ion Ratio Lower Upper
117 100
82 63.7 54.2 81.4
119 31.8 25.0 37.6





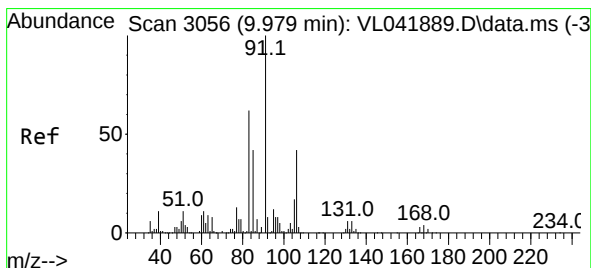
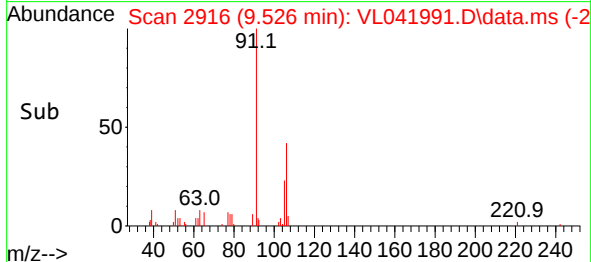
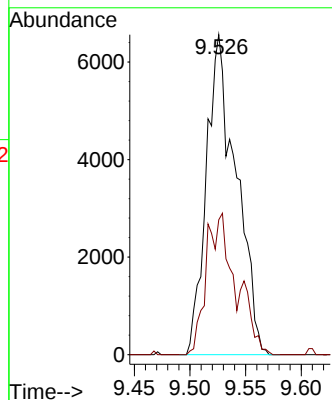
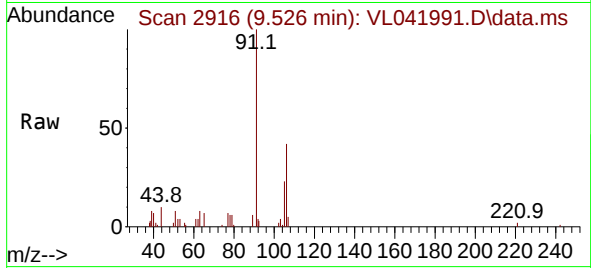
#59
m/p-Xylene
Concen: 0.293 ppbv m
RT: 9.526 min Scan# 2916
Delta R.T. -0.039 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 91 Resp: 1219
Ion Ratio Lower Upper
91 100
106 0.0 36.0 54.0

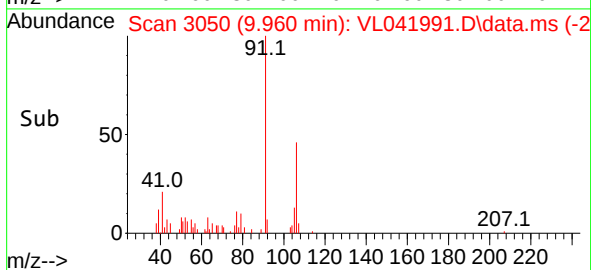
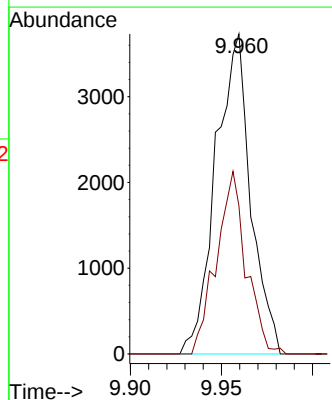
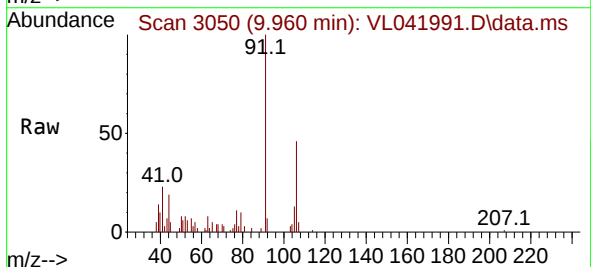
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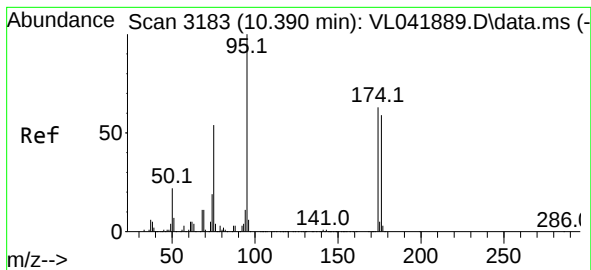
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#60
o-Xylene
Concen: 0.120 ppbv
RT: 9.960 min Scan# 3050
Delta R.T. -0.019 min
Lab File: VL041991.D
Acq: 10 Feb 2025 16:50

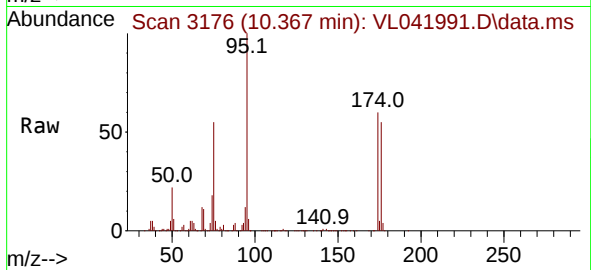
Tgt Ion: 91 Resp: 4970
Ion Ratio Lower Upper
91 100
106 48.7 21.3 63.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.397 ppbv
 RT: 10.367 min Scan# 3183
 Delta R.T. -0.022 min
 Lab File: VL041991.D
 Acq: 10 Feb 2025 16:50

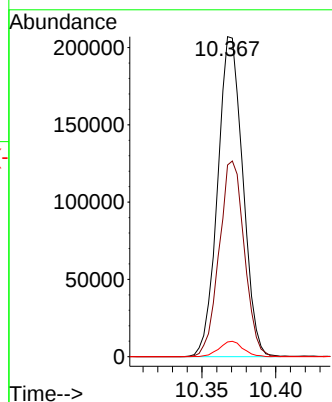
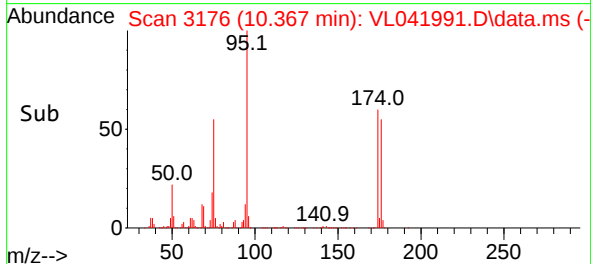
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion: 95 Resp: 245935
 Ion Ratio Lower Upper
 95 100
 174 61.0 49.0 73.4
 175 4.6 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1303 SAS No.: Q1303 SDG No.: Q1303
 Instrument ID: MSVOA_L Calibration Date(s): 01/14/2025 01/14/2025
 Heated Purge: (Y/N) N Calibration Time(s): 12:55 16:05
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL041889.D		RRF002 = VL041890.D		RRF001 = VL041891.D		
		RRF0.5 = VL041892.D		RRF0.1 = VL041893.D		RRF.03 = VL041894.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.466	0.502	0.531	0.561	0.578	0.504	0.519	7.6
Heptane	1.530	1.635	1.616	1.536			1.571	3.2
1,1-Dichloroethene	0.458	0.514	0.517	0.520			0.501	5.2
Cyclohexane	1.082	1.145	1.193	1.037			1.111	5.4
cis-1,2-Dichloroethene	1.272	1.390	1.397	1.406			1.349	5
1,1,1-Trichloroethane	1.905	1.956	2.010	1.942	1.841	1.937	1.938	2.8
2,2,4-Trimethylpentane	1.457	1.566	1.501	1.450			1.484	3.5
Benzene	0.882	0.949	0.949	0.926			0.917	3.8
Trichloroethene	0.354	0.373	0.374	0.381	0.427	0.286	0.364	11.6
Toluene	1.011	1.048	0.996	0.934			0.999	4.1
1,2-Dibromoethane	0.454	0.494	0.468	0.488	0.440		0.469	4.3
Tetrachloroethene	0.292	0.330	0.329	0.317	0.348	0.320	0.318	6.5
Ethyl Benzene	1.551	1.653	1.563	1.507			1.563	3.5
m/p-Xylene	1.223	1.355	1.265	1.186			1.253	5.1
o-Xylene	1.224	1.348	1.241	1.179			1.243	5.1
1,3,5-Trimethylbenzene	1.263	1.448	1.360	1.222			1.313	6.9
1,2,4-Trimethylbenzene	1.346	1.607	1.456	1.359			1.422	8
Naphthalene	1.255	1.941	1.682	1.479	0.978		1.432	24
1-Bromo-4-Fluorobenzene	0.782	0.795	0.792	0.784	0.785	0.783	0.788	0.7
Hexane	1.261	1.388	1.249	1.265			1.281	4.7

* 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 : VL011425AIR.M

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

Last Update : Tue Jan 14 23:15:42 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL041894.D 0.1 =VL041893.D 0.5 =VL041892.D 1 =VL041891.D 2 =VL041890.D 10 =VL041889.D 15 =VL041895.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.450	1.406	1.359	1.300	1.295	1.362	4.93
3) Chlorodifluoro...			1.448	1.547	1.466	1.330	1.343	1.427	6.34
4) Chloromethane			0.546	0.499	0.525	0.492	0.499	0.512	4.41
5) T Vinyl Chloride	0.504	0.578	0.561	0.531	0.502	0.466	0.491	0.519	7.62
6) T Bromomethane			0.253	0.274	0.248	0.229	0.233	0.247	7.30
7) Chloroethane			0.210	0.205	0.209	0.193	0.194	0.202	4.08
8) T Dichlorotetra...			1.282	1.198	1.225	1.095	1.151	1.190	5.99
9) T Propene			0.642	0.577	0.605	0.568	0.548	0.588	6.21
10) T Heptane			1.536	1.616	1.635	1.530	1.538	1.571	3.19
11) T Trichlorofluor...			1.488	1.417	1.435	1.335	1.410	1.417	3.87
12) T 1,1,2-Trichlor...			1.098	1.137	1.166	1.057	1.095	1.110	3.78
13) Ethanol			0.065	0.043	0.051	0.027	0.029	0.043#	36.98
14) T Bromoethene			0.420	0.445	0.403	0.371	0.393	0.407	6.93
15) T Acetone			1.405	1.301	1.256	0.991	1.051	1.201	14.50
16) T 1,3-Butadiene			0.552	0.589	0.545	0.494	0.515	0.539	6.74
17) tert-Butyl alc...			1.527	1.559	1.503	1.399	1.404	1.478	4.91
18) T 1,1-Dichloroet...			0.520	0.517	0.514	0.458	0.492	0.501	5.18
19) T Isopropyl Alcohol			0.864	0.731	0.714	0.621	0.631	0.712	13.77
20) T Methylene Chlo...			0.586	0.503	0.478	0.390	0.416	0.475	16.27
21) T Allyl Chloride			0.897	0.823	0.847	0.792	0.799	0.832	5.06
22) T trans-1,2-Dich...			0.549	0.583	0.595	0.540	0.556	0.565	4.13
23) T Vinyl Acetate			0.873	0.475	0.543	0.538	0.549	0.595	26.54
24) T 1,1-Dichloroet...			1.165	1.099	1.100	1.016	1.083	1.093	4.84
25) T Ethyl Acetate			3.219	3.352	3.399	3.094	3.131	3.239	4.13
26) T Hexane			1.265	1.249	1.388	1.261	1.242	1.281	4.71
27) T Carbon Disulfide			1.210	1.256	1.304	1.258	1.311	1.268	3.22
28) T Methyl tert-Bu...			1.043	1.187	1.007	0.774	0.885	0.979	16.08
29) T Chloroform			2.101	2.060	2.105	1.911	1.947	2.025	4.45
30) T Cyclohexane			1.037	1.193	1.145	1.082	1.098	1.111	5.41
31) T cis-1,2-Dichlo...			1.406	1.397	1.390	1.272	1.279	1.349	4.98
32) T 1,1,1-Trichlor...	1.937	1.841	1.942	2.010	1.956	1.905	1.973	1.938	2.76

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.649	0.646	0.679	0.602	0.605	0.636	5.13
35) T Carbon Tetrach...	0.605	0.608	0.584	0.616	0.657	0.649	0.677	0.628	5.32
36) T Benzene			0.926	0.949	0.949	0.882	0.879	0.917	3.78
37) T 1,2-Dichloroet...			0.539	0.516	0.517	0.493	0.510	0.515	3.23
38) T Trichloroethene	0.286	0.427	0.381	0.374	0.373	0.354	0.353	0.364	11.62
39) T 1,2-Dichloropr...			0.349	0.321	0.329	0.305	0.304	0.322	5.81

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\											
Method File : VL011425AIR.M											
40)	T	1,4-Dioxane			0.187	0.162	0.161	0.147	0.155	0.162	9.21
41)	T	Tetrahydrofuran			0.333	0.344	0.358	0.348	0.346	0.346	2.53
42)	T	Bromodichlorom...			0.700	0.659	0.703	0.684	0.707	0.691	2.84
43)		Methyl Methacr...			0.340	0.336	0.349	0.338	0.341	0.341	1.41
44)	T	2,2,4-Trimethy...			1.450	1.501	1.566	1.457	1.444	1.484	3.45
45)	T	t-1,3-Dichloro...			0.300	0.292	0.319	0.338	0.346	0.319	7.38
46)	T	cis-1,3-Dichlo...			0.371	0.391	0.439	0.446	0.447	0.419	8.43
47)	T	1,1,2-Trichlor...			0.340	0.345	0.350	0.333	0.336	0.341	2.06
48)	T	Dibromochlorom...			0.490	0.489	0.541	0.545	0.566	0.526	6.64
49)	T	Bromoform			0.379	0.394	0.439	0.460	0.488	0.432	10.53
50)	T	4-Methyl-2-Pen...			0.892	0.870	0.899	0.833	0.846	0.868	3.29
51)	T	2-Hexanone			0.622	0.640	0.739	0.652	0.683	0.667	6.91
52)	T	Tetrachloroethene	0.320	0.348	0.317	0.329	0.330	0.292	0.291	0.318	6.46
53)	T	Toluene			0.934	0.996	1.048	1.011	1.008	0.999	4.14
54)	T	1,2-Dibromoethane	0.440		0.488	0.468	0.494	0.454	0.470	0.469	4.32
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.502	0.514	0.510	0.481	0.488	0.499	2.86
57)	T	Chlorobenzene			0.986	0.968	0.977	0.848	0.832	0.922	8.18
58)	T	Ethyl Benzene			1.507	1.563	1.653	1.551	1.541	1.563	3.49
59)	T	m/p-Xylene			1.186	1.265	1.355	1.223	1.234	1.253	5.10
60)	T	o-Xylene			1.179	1.241	1.348	1.224	1.224	1.243	5.06
61)	T	Styrene			0.516	0.515	0.576	0.587	0.595	0.558	7.02
62)		Isopropylbenzene			1.927	1.925	2.066	1.854	1.848	1.924	4.56
63)	T	1,1,2,2-Tetrac...	0.756		0.816	0.845	0.858	0.751	0.741	0.795	6.52
64)		n-propylbenzene			0.481	0.495	0.521	0.469	0.464	0.486	4.78
65)		tert-Butylbenzene			1.746	1.782	1.919	1.675	1.645	1.753	6.12
66)	T	Benzyl Chloride			0.102	0.093	0.113	0.115	0.119	0.109	9.71
67)		sec-Butylbenzene			2.389	2.457	2.681	2.299	2.246	2.414	7.04
68)	S	1-Bromo-4-Fluo...	0.783	0.785	0.784	0.792	0.795	0.782	0.792	0.788	0.65
69)		p-Isopropyltol...			1.852	2.013	2.256	1.927	1.892	1.988	8.11
70)		n-Butylbenzene			1.867	2.048	2.206	1.898	1.840	1.972	7.80
71)		2-Chlorotoluene			1.394	1.410	1.537	1.389	1.385	1.423	4.54
72)	T	4-Ethyltoluene			1.442	1.447	1.610	1.466	1.472	1.487	4.67
73)	T	1,3,5-Trimethy...			1.222	1.360	1.448	1.263	1.275	1.313	6.88
74)	T	1,2,4-Trimethy...			1.359	1.456	1.607	1.346	1.344	1.422	7.97
75)	T	1,3-Dichlorobe...			0.881	0.884	0.903	0.776	0.771	0.843	7.61
76)	T	1,4-Dichlorobe...			0.830	0.859	0.889	0.769	0.777	0.825	6.29
77)	T	1,2-Dichlorobe...			0.863	0.902	0.909	0.757	0.745	0.835	9.43
78)	T	Hexachloro-1,3...			0.747	0.742	0.772	0.586	0.582	0.686	13.66
79)	T	Naphthalene	0.978		1.479	1.682	1.941	1.255	1.259	1.432	24.01
80)	T	Naphthalene,2-...			0.572	0.724	1.151	0.463	0.485	0.679	41.70
81)	T	1,2,4-Trichlor...			0.745	0.738	0.819	0.598	0.596	0.699	14.10

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	152325	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	449256	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	400269	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	313194	9.934	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	197959	9.541	ppbv	100
3) Chlorodifluoromethane	1.479	51	202651	9.323	ppbv	100
4) Chloromethane	1.538	50	74977	9.608	ppbv	100
5) Vinyl Chloride	1.583	62	71006	8.984	ppbv	100
6) Bromomethane	1.674	94	34817	9.243	ppbv	100
7) Chloroethane	1.709	64	29349	9.544	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	166754	9.196	ppbv	100
9) Propene	1.486	41	86544	9.665	ppbv	100
10) Heptane	5.001	43	233062	9.738	ppbv	100
11) Trichlorofluoromethane	1.884	101	203374	9.423	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	160993	9.517	ppbv	100
13) Ethanol	1.725	45	4155	6.335	ppbv	98
14) Bromoethene	1.787	108	56447	9.114	ppbv	100
15) Acetone	1.842	43	151022	8.255	ppbv	100
16) 1,3-Butadiene	1.612	39	75244	9.163	ppbv	100
17) tert-Butyl alcohol	2.046	59	213109	9.464	ppbv	100
18) 1,1-Dichloroethene	2.039	96	69825	9.158	ppbv	100
19) Isopropyl Alcohol	1.890	45	94532	8.714	ppbv	100
20) Methylene Chloride	2.068	84	59427	8.219	ppbv	100
21) Allyl Chloride	2.101	41	120681	9.526	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	82326	9.568	ppbv	100
23) Vinyl Acetate	2.470	43	81885	10.281	ppbv	100
24) 1,1-Dichloroethane	2.418	63	154838	9.303	ppbv	100
25) Ethyl Acetate	2.845	43	471257	9.552	ppbv	100
26) Hexane	2.835	57	192009	9.841	ppbv	100
27) Carbon Disulfide	2.156	76	191567	9.921	ppbv	99
28) Methyl tert-Butyl Ether	2.450	73	117898	7.905	ppbv	100
29) Chloroform	2.858	83	291118	9.438	ppbv	100
30) Cyclohexane	3.868	84	164788	9.737	ppbv	100
31) cis-1,2-Dichloroethene	2.729	61	193774	9.432	ppbv	100
32) 1,1,1-Trichloroethane	3.379	97	290126	9.830	ppbv	100
34) 2-Butanone	2.567	43	270263	9.459	ppbv	100
35) Carbon Tetrachloride	3.777	117	291448	10.309	ppbv	100
36) Benzene	3.671	78	396344	9.619	ppbv	100
37) 1,2-Dichloroethane	3.230	62	221352	9.565	ppbv	100
38) Trichloroethene	4.564	130	159253	9.736	ppbv	100
39) 1,2-Dichloropropane	4.331	63	137090	9.484	ppbv	100
40) 1,4-Dioxane	4.606	88	66200	9.075	ppbv #	94
41) Tetrahydrofuran	3.065	42	156141	10.023	ppbv	100
42) Bromodichloromethane	4.509	83	307176	9.900	ppbv	100
43) Methyl Methacrylate	4.897	69	152001	9.930	ppbv	100
44) 2,2,4-Trimethylpentane	4.658	57	654395	9.819	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	151920	10.603	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041889.D
 Acq On : 14 Jan 2025 12:55
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Quant Time: Jan 14 21:20:11 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	200330	10.649	ppbv	100
47) 1,1,2-Trichloroethane	6.600	97	149634	9.766	ppbv	100
48) Dibromochloromethane	7.402	129	245066	10.368	ppbv	100
49) Bromoform	9.496	173	206751	10.649	ppbv	100
50) 4-Methyl-2-Pentanone	5.778	43	374267	9.615	ppbv	100
51) 2-Hexanone	7.454	43	292941	9.775	ppbv #	100
52) Tetrachloroethene	8.241	164	131334	9.193	ppbv	100
53) Toluene	6.952	91	454085	10.116	ppbv	100
54) 1,2-Dibromoethane	7.668	107	203859	9.679	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	192449	9.637	ppbv	99
57) Chlorobenzene	8.937	112	339570	9.197	ppbv	100
58) Ethyl Benzene	9.367	91	620719	9.923	ppbv	100
59) m/p-Xylene	9.564	91	979297m	19.504	ppbv	
60) o-Xylene	9.979	91	490108	9.848	ppbv	100
61) Styrene	9.885	104	234901	10.522	ppbv	100
62) Isopropylbenzene	10.552	105	742261	9.638	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	300600	9.596	ppbv	100
64) n-propylbenzene	11.002	120	187706	9.646	ppbv	99
65) tert-Butylbenzene	11.542	119	670259	9.550	ppbv	100
66) Benzyl Chloride	11.626	91	46008	10.591	ppbv	100
67) sec-Butylbenzene	11.778	105	920046	9.521	ppbv	100
69) p-Isopropyltoluene	11.937	119	771465	9.694	ppbv	100
70) n-Butylbenzene	12.293	91	759785	9.627	ppbv	100
71) 2-Chlorotoluene	10.914	91	556170	9.763	ppbv	100
72) 4-Ethyltoluene	11.137	105	586667	9.855	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	505443	9.614	ppbv	100
74) 1,2,4-Trimethylbenzene	11.549	105	538665	9.461	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	310421	9.201	ppbv	100
76) 1,4-Dichlorobenzene	11.684	146	307758	9.324	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	303196	9.068	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	234457	8.543	ppbv	100
79) Naphthalene	13.526	128	502354	8.764	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	185336	6.819	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	239317	8.553	ppbv	100

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

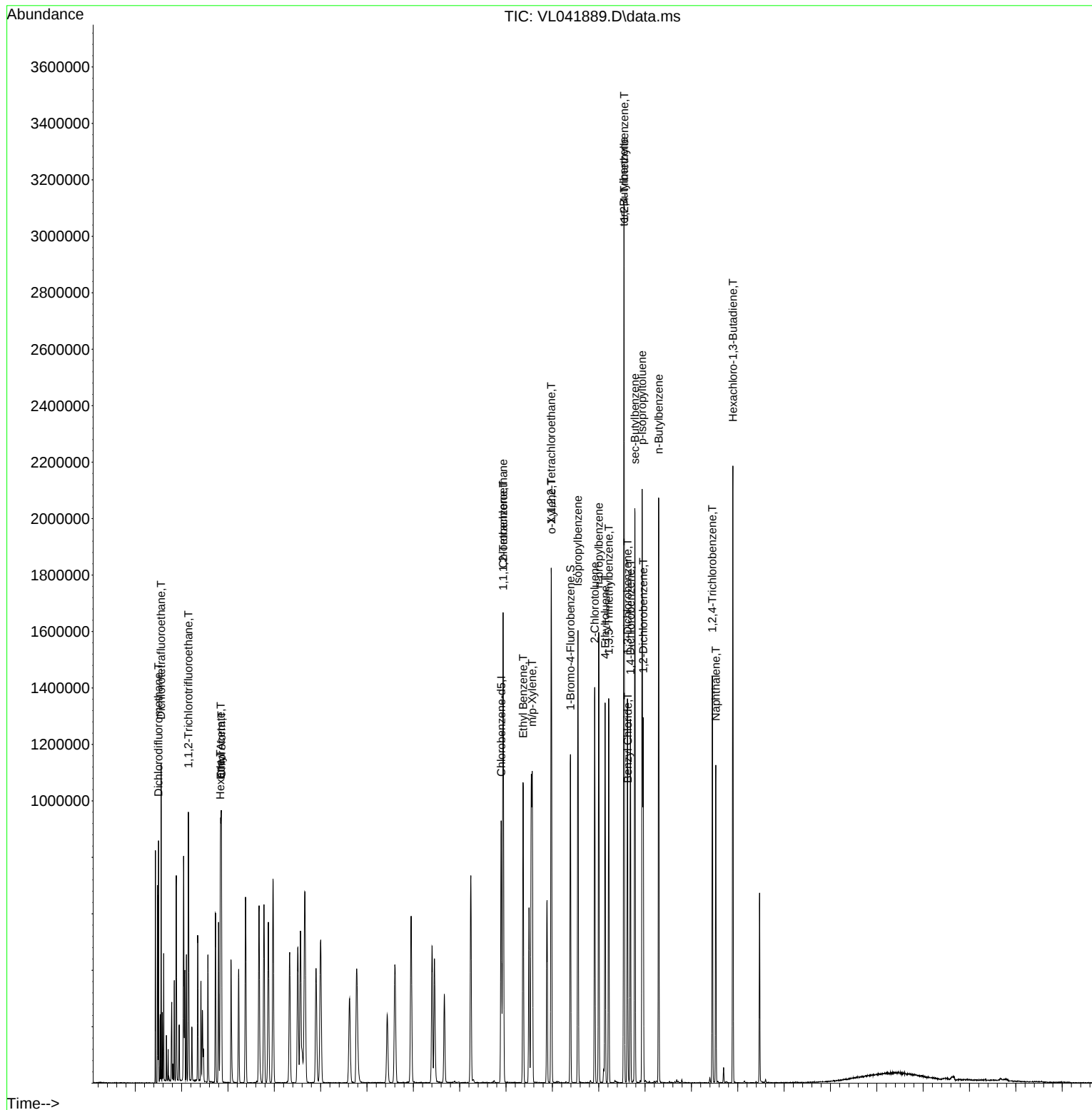
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Jan 14 21:20:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	150761	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.971	114	452131	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	394865	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	313784	10.089	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.900%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	40991	1.996	ppbv	98
3) Chlorodifluoromethane	1.479	51	44207	2.055	ppbv	99
4) Chloromethane	1.538	50	15833	2.050	ppbv	93
5) Vinyl Chloride	1.583	62	15137	1.935	ppbv	99
6) Bromomethane	1.673	94	7486	2.008	ppbv	91
7) Chloroethane	1.709	64	6303	2.071	ppbv #	84
8) Dichlorotetrafluoroethane	1.557	85	36941	2.058	ppbv	99
9) Propene	1.486	41	18248	2.059	ppbv	95
10) Heptane	5.001	43	49302	2.081	ppbv	97
11) Trichlorofluoromethane	1.884	101	43266	2.025	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.146	101	35162	2.100	ppbv	97
13) Ethanol	1.725	45	1534	2.363	ppbv	84
14) Bromoethene	1.787	108	12163	1.984	ppbv #	95
15) Acetone	1.842	43	37867	2.091	ppbv	99
16) 1,3-Butadiene	1.612	39	16446	2.024	ppbv	100
17) tert-Butyl alcohol	2.049	59	45305	2.033	ppbv	99
18) 1,1-Dichloroethene	2.039	96	15508	2.055	ppbv	97
19) Isopropyl Alcohol	1.894	45	21530	2.005	ppbv	94
20) Methylene Chloride	2.068	84	14399	2.012	ppbv	95
21) Allyl Chloride	2.104	41	25533	2.036	ppbv	97
22) trans-1,2-Dichloroethene	2.350	96	17951	2.108	ppbv	83
23) Vinyl Acetate	2.470	43	16358	2.075	ppbv	99
24) 1,1-Dichloroethane	2.418	63	33175	2.014	ppbv	99
25) Ethyl Acetate	2.848	43	102475	2.099	ppbv	99
26) Hexane	2.835	57	41844	2.167	ppbv	99
27) Carbon Disulfide	2.156	76	39306	2.057	ppbv #	70
28) Methyl tert-Butyl Ether	2.454	73	30355	2.056	ppbv	96
29) Chloroform	2.858	83	63457	2.079	ppbv	94
30) Cyclohexane	3.874	84	34518	2.061	ppbv	97
31) cis-1,2-Dichloroethene	2.729	61	41921	2.062	ppbv	89
32) 1,1,1-Trichloroethane	3.382	97	58965	2.019	ppbv	98
34) 2-Butanone	2.570	43	61381	2.135	ppbv	99
35) Carbon Tetrachloride	3.777	117	59430	2.089	ppbv	95
36) Benzene	3.670	78	85859	2.070	ppbv	96
37) 1,2-Dichloroethane	3.230	62	46786	2.009	ppbv	100
38) Trichloroethene	4.564	130	33773	2.052	ppbv	98
39) 1,2-Dichloropropane	4.334	63	29723	2.043	ppbv	96
40) 1,4-Dioxane	4.619	88	14566m	1.984	ppbv	
41) Tetrahydrofuran	3.072	42	32358	2.064	ppbv	96
42) Bromodichloromethane	4.509	83	63611	2.037	ppbv	99
43) Methyl Methacrylate	4.900	69	31519	2.046	ppbv	99
44) 2,2,4-Trimethylpentane	4.658	57	141602	2.111	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	28818	1.999	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041890.D
 Acq On : 14 Jan 2025 13:28
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:29 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.625	75	39668	2.095	ppbv	94
47) 1,1,2-Trichloroethane	6.600	97	31694m	2.055	ppbv	
48) Dibromochloromethane	7.406	129	48894	2.055	ppbv	99
49) Bromoform	9.496	173	39710	2.032	ppbv	99
50) 4-Methyl-2-Pentanone	5.784	43	81330	2.076	ppbv	98
51) 2-Hexanone	7.457	43	66831	2.216	ppbv #	98
52) Tetrachloroethene	8.241	164	29814	2.074	ppbv	94
53) Toluene	6.952	91	94741	2.097	ppbv	98
54) 1,2-Dibromoethane	7.671	107	44636	2.106	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.940	131	40249	2.043	ppbv	93
57) Chlorobenzene	8.933	112	77180	2.119	ppbv	94
58) Ethyl Benzene	9.367	91	130554	2.116	ppbv	98
59) m/p-Xylene	9.561	91	214076m	4.322	ppbv	
60) o-Xylene	9.975	91	106458	2.168	ppbv	99
61) Styrene	9.885	104	45490	2.065	ppbv	99
62) Isopropylbenzene	10.552	105	163135	2.147	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.975	83	67775	2.193	ppbv	99
64) n-propylbenzene	11.001	120	41184	2.145	ppbv	99
65) tert-Butylbenzene	11.542	119	151534	2.189	ppbv	97
66) Benzyl Chloride	11.626	91	8925	2.083	ppbv	97
67) sec-Butylbenzene	11.778	105	211759	2.221	ppbv	99
69) p-Isopropyltoluene	11.937	119	178172	2.270	ppbv	100
70) n-Butylbenzene	12.293	91	174217	2.238	ppbv	99
71) 2-Chlorotoluene	10.914	91	121418	2.161	ppbv	100
72) 4-Ethyltoluene	11.137	105	127115	2.164	ppbv	100
73) 1,3,5-Trimethylbenzene	11.215	105	114342	2.205	ppbv	99
74) 1,2,4-Trimethylbenzene	11.548	105	126939	2.260	ppbv #	89
75) 1,3-Dichlorobenzene	11.616	146	71332	2.143	ppbv	98
76) 1,4-Dichlorobenzene	11.684	146	70219	2.156	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	71818	2.177	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	60984	2.253	ppbv	99
79) Naphthalene	13.526	128	153268	2.710	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	90910	3.391	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	64653	2.342	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	151226	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	453418	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	393836	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 312013 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	21262	1.032	ppbv	95
3) Chlorodifluoromethane	1.479	51	23396	1.084	ppbv	100
4) Chloromethane	1.534	50	7546	0.974	ppbv	94
5) Vinyl Chloride	1.583	62	8031	1.023	ppbv	97
6) Bromomethane	1.674	94	4139	1.107	ppbv #	81
7) Chloroethane	1.709	64	3093	1.013	ppbv	92
8) Dichlorotetrafluoroethane	1.557	85	18122	1.007	ppbv	100
9) Propene	1.486	41	8719	0.981	ppbv	93
10) Heptane	5.001	43	24438	1.029	ppbv	96
11) Trichlorofluoromethane	1.884	101	21425	1.000	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.143	101	17187	1.023	ppbv	95
13) Ethanol	1.725	45	650	0.998	ppbv #	29
14) Bromoethene	1.787	108	6736	1.096	ppbv #	88
15) Acetone	1.842	43	19681	1.084	ppbv	95
16) 1,3-Butadiene	1.612	39	8901	1.092	ppbv	98
17) tert-Butyl alcohol	2.049	59	23571	1.054	ppbv	95
18) 1,1-Dichloroethene	2.039	96	7819m	1.033	ppbv	
19) Isopropyl Alcohol	1.894	45	11054	1.026	ppbv #	32
20) Methylene Chloride	2.065	84	7608	1.060	ppbv #	89
21) Allyl Chloride	2.101	41	12451	0.990	ppbv	98
22) trans-1,2-Dichloroethene	2.347	96	8819	1.032	ppbv	96
23) Vinyl Acetate	2.470	43	7181	0.908	ppbv #	93
24) 1,1-Dichloroethane	2.415	63	16623	1.006	ppbv	97
25) Ethyl Acetate	2.845	43	50690	1.035	ppbv	98
26) Hexane	2.836	57	18893	0.975	ppbv	86
27) Carbon Disulfide	2.156	76	18993	0.991	ppbv #	23
28) Methyl tert-Butyl Ether	2.450	73	17955	1.213	ppbv	98
29) Chloroform	2.858	83	31155	1.017	ppbv	97
30) Cyclohexane	3.871	84	18048	1.074	ppbv	96
31) cis-1,2-Dichloroethene	2.729	61	21124	1.036	ppbv	99
32) 1,1,1-Trichloroethane	3.383	97	30396	1.037	ppbv	98
34) 2-Butanone	2.570	43	29280	1.015	ppbv	99
35) Carbon Tetrachloride	3.774	117	27946	0.979	ppbv	96
36) Benzene	3.671	78	43023	1.035	ppbv	93
37) 1,2-Dichloroethane	3.230	62	23402	1.002	ppbv	98
38) Trichloroethene	4.564	130	16954m	1.027	ppbv	
39) 1,2-Dichloropropane	4.331	63	14570	0.999	ppbv	98
40) 1,4-Dioxane	4.613	88	7345m	0.998	ppbv	
41) Tetrahydrofuran	3.075	42	15580m	0.991	ppbv	
42) Bromodichloromethane	4.509	83	29893m	0.955	ppbv	
43) Methyl Methacrylate	4.901	69	15222	0.985	ppbv	95
44) 2,2,4-Trimethylpentane	4.661	57	68050	1.012	ppbv	98
45) t-1,3-Dichloropropene	6.438	75	13220	0.914	ppbv	92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041891.D
 Acq On : 14 Jan 2025 13:59
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.626	75	17749	0.935	ppbv	97
47) 1,1,2-Trichloroethane	6.603	97	15658m	1.013	ppbv	
48) Dibromochloromethane	7.402	129	22169	0.929	ppbv	100
49) Bromoform	9.497	173	17876	0.912	ppbv	100
50) 4-Methyl-2-Pentanone	5.787	43	39436m	1.004	ppbv	
51) 2-Hexanone	7.464	43	28999	0.959	ppbv #	95
52) Tetrachloroethene	8.244	164	14903	1.034	ppbv #	80
53) Toluene	6.956	91	45140m	0.996	ppbv	
54) 1,2-Dibromoethane	7.668	107	21202	0.997	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.937	131	20255	1.031	ppbv	94
57) Chlorobenzene	8.933	112	38141	1.050	ppbv	98
58) Ethyl Benzene	9.367	91	61537	1.000	ppbv	99
59) m/p-Xylene	9.561	91	99618m	2.016	ppbv	
60) o-Xylene	9.972	91	48888	0.998	ppbv	98
61) Styrene	9.882	104	20285	0.923	ppbv	99
62) Isopropylbenzene	10.549	105	75801	1.000	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	33289	1.080	ppbv	97
64) n-propylbenzene	11.002	120	19511	1.019	ppbv	99
65) tert-Butylbenzene	11.539	119	70183	1.016	ppbv	98
66) Benzyl Chloride	11.626	91	3681m	0.861	ppbv	
67) sec-Butylbenzene	11.778	105	96749	1.018	ppbv	97
69) p-Isopropyltoluene	11.937	119	79283	1.013	ppbv	98
70) n-Butylbenzene	12.290	91	80664	1.039	ppbv	99
71) 2-Chlorotoluene	10.911	91	55540	0.991	ppbv	99
72) 4-Ethyltoluene	11.134	105	56973	0.973	ppbv	97
73) 1,3,5-Trimethylbenzene	11.215	105	53550	1.035	ppbv	97
74) 1,2,4-Trimethylbenzene	11.545	105	57352	1.024	ppbv	96
75) 1,3-Dichlorobenzene	11.617	146	34810	1.049	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	33822	1.041	ppbv	97
77) 1,2-Dichlorobenzene	11.960	146	35516	1.080	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	29210	1.082	ppbv	99
79) Naphthalene	13.523	128	66232	1.174	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	28506	1.066	ppbv	98
81) 1,2,4-Trichlorobenzene	13.452	180	29053	1.055	ppbv	99

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

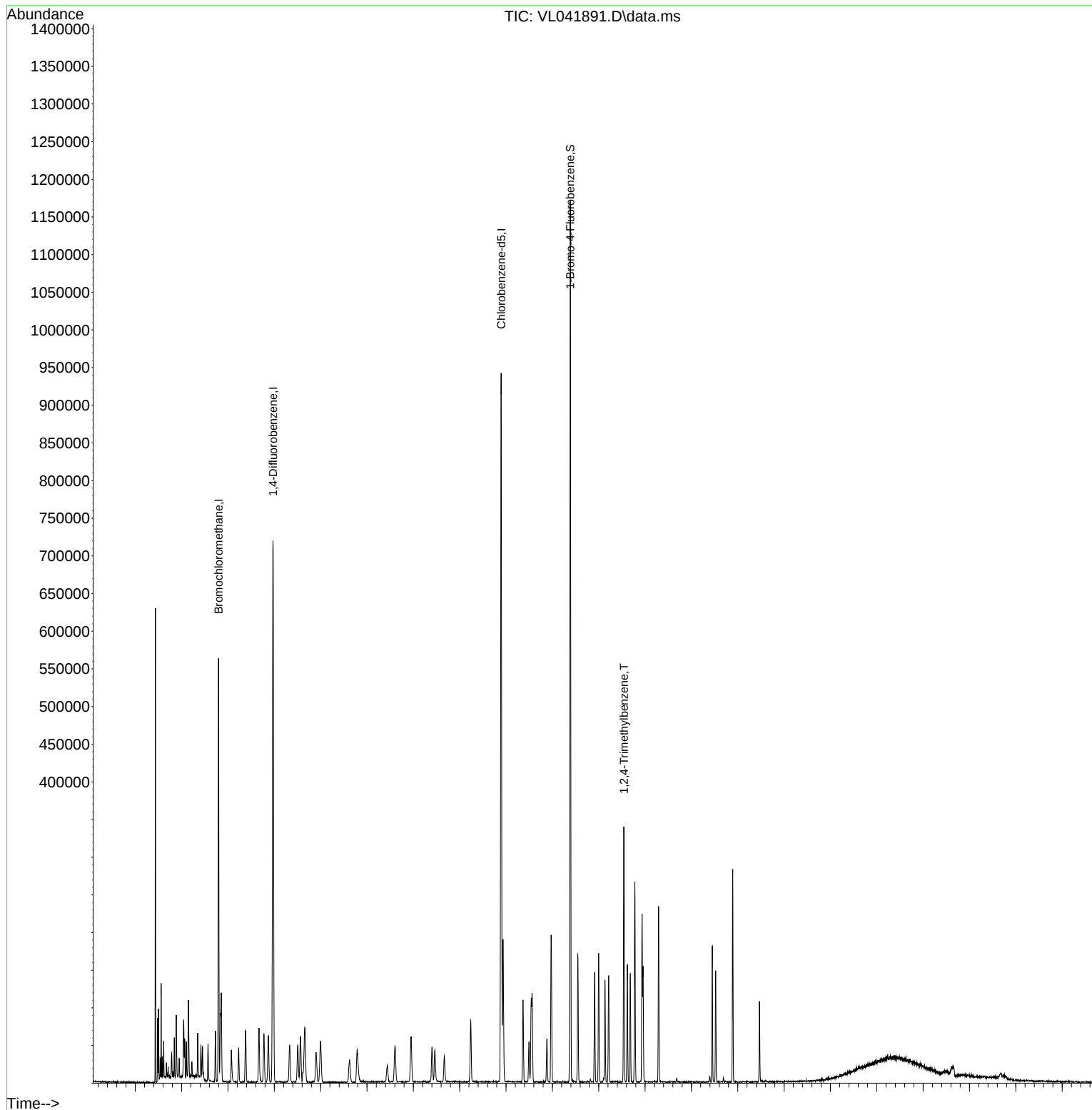
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:20:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	146186	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	430874	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	379402	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.383	95	297462	9.954	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	10599	0.532	ppbv	99
3) Chlorodifluoromethane	1.476	51	10582	0.507	ppbv	98
4) Chloromethane	1.534	50	3990	0.533	ppbv	98
5) Vinyl Chloride	1.580	62	4097	0.540	ppbv	94
6) Bromomethane	1.670	94	1852	0.512	ppbv #	78
7) Chloroethane	1.706	64	1532	0.519	ppbv #	77
8) Dichlorotetrafluoroethane	1.557	85	9372	0.539	ppbv	95
9) Propene	1.486	41	4690	0.546	ppbv	85
10) Heptane	4.988	43	11230	0.489	ppbv	95
11) Trichlorofluoromethane	1.881	101	10873	0.525	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	8027	0.494	ppbv	90
13) Ethanol	1.725	45	478m	0.759	ppbv	
14) Bromoethene	1.784	108	3071	0.517	ppbv #	94
15) Acetone	1.839	43	10273	0.585	ppbv	99
16) 1,3-Butadiene	1.612	39	4038	0.512	ppbv	99
17) tert-Butyl alcohol	2.046	59	11158	0.516	ppbv #	94
18) 1,1-Dichloroethene	2.036	96	3803	0.520	ppbv	95
19) Isopropyl Alcohol	1.891	45	6317	0.607	ppbv #	32
20) Methylene Chloride	2.065	84	4286	0.618	ppbv	93
21) Allyl Chloride	2.101	41	6553	0.539	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	4015	0.486	ppbv	89
23) Vinyl Acetate	2.467	43	6381m	0.835	ppbv	
24) 1,1-Dichloroethane	2.415	63	8512	0.533	ppbv	97
25) Ethyl Acetate	2.845	43	23529	0.497	ppbv	97
26) Hexane	2.829	57	9246m	0.494	ppbv	
27) Carbon Disulfide	2.153	76	8847	0.477	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	7621	0.532	ppbv	97
29) Chloroform	2.855	83	15360	0.519	ppbv	92
30) Cyclohexane	3.871	84	7579	0.467	ppbv	92
31) cis-1,2-Dichloroethene	2.726	61	10275	0.521	ppbv #	89
32) 1,1,1-Trichloroethane	3.379	97	14198	0.501	ppbv	98
34) 2-Butanone	2.567	43	13981	0.510	ppbv	94
35) Carbon Tetrachloride	3.774	117	12590	0.464	ppbv	89
36) Benzene	3.667	78	19954	0.505	ppbv	95
37) 1,2-Dichloroethane	3.227	62	11613	0.523	ppbv	97
38) Trichloroethene	4.561	130	8199	0.523	ppbv #	89
39) 1,2-Dichloropropane	4.324	63	7526m	0.543	ppbv	
40) 1,4-Dioxane	4.616	88	4031m	0.576	ppbv	
41) Tetrahydrofuran	3.072	42	7183	0.481	ppbv	94
42) Bromodichloromethane	4.499	83	15081m	0.507	ppbv	
43) Methyl Methacrylate	4.891	69	7332m	0.499	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	31243	0.489	ppbv	95
45) t-1,3-Dichloropropene	6.428	75	6465m	0.470	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041892.D
 Acq On : 14 Jan 2025 14:30
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	7986m	0.443	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	7324	0.498	ppbv #	84
48) Dibromochloromethane	7.393	129	10548m	0.465	ppbv	
49) Bromoform	9.493	173	8162	0.438	ppbv	97
50) 4-Methyl-2-Pentanone	5.794	43	19221m	0.515	ppbv	
51) 2-Hexanone	7.454	43	13390	0.466	ppbv #	97
52) Tetrachloroethene	8.238	164	6821m	0.498	ppbv	
53) Toluene	6.946	91	20118	0.467	ppbv	96
54) 1,2-Dibromoethane	7.665	107	10511	0.520	ppbv	89
56) 1,1,1,2-Tetrachloroethane	8.930	131	9524	0.503	ppbv #	1
57) Chlorobenzene	8.930	112	18701	0.534	ppbv #	90
58) Ethyl Benzene	9.364	91	28584	0.482	ppbv #	88
59) m/p-Xylene	9.558	91	45003m	0.946	ppbv	
60) o-Xylene	9.972	91	22370	0.474	ppbv	97
61) Styrene	9.879	104	9788	0.463	ppbv	99
62) Isopropylbenzene	10.545	105	36561	0.501	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	15485	0.521	ppbv	98
64) n-propylbenzene	10.995	120	9128	0.495	ppbv	93
65) tert-Butylbenzene	11.536	119	33122	0.498	ppbv	98
66) Benzyl Chloride	11.620	91	1935	0.470	ppbv	99
67) sec-Butylbenzene	11.775	105	45326	0.495	ppbv	98
69) p-Isopropyltoluene	11.931	119	35136	0.466	ppbv	98
70) n-Butylbenzene	12.287	91	35409	0.473	ppbv	96
71) 2-Chlorotoluene	10.908	91	26436	0.490	ppbv	99
72) 4-Ethyltoluene	11.131	105	27363	0.485	ppbv	97
73) 1,3,5-Trimethylbenzene	11.209	105	23183	0.465	ppbv	93
74) 1,2,4-Trimethylbenzene	11.545	105	25777	0.478	ppbv	89
75) 1,3-Dichlorobenzene	11.610	146	16708	0.522	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	15738	0.503	ppbv	96
77) 1,2-Dichlorobenzene	11.953	146	16364	0.516	ppbv	93
78) Hexachloro-1,3-Butadiene	13.892	225	14162	0.544	ppbv	96
79) Naphthalene	13.520	128	28052	0.516	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	10859	0.422	ppbv	97
81) 1,2,4-Trichlorobenzene	13.445	180	14136	0.533	ppbv	95

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

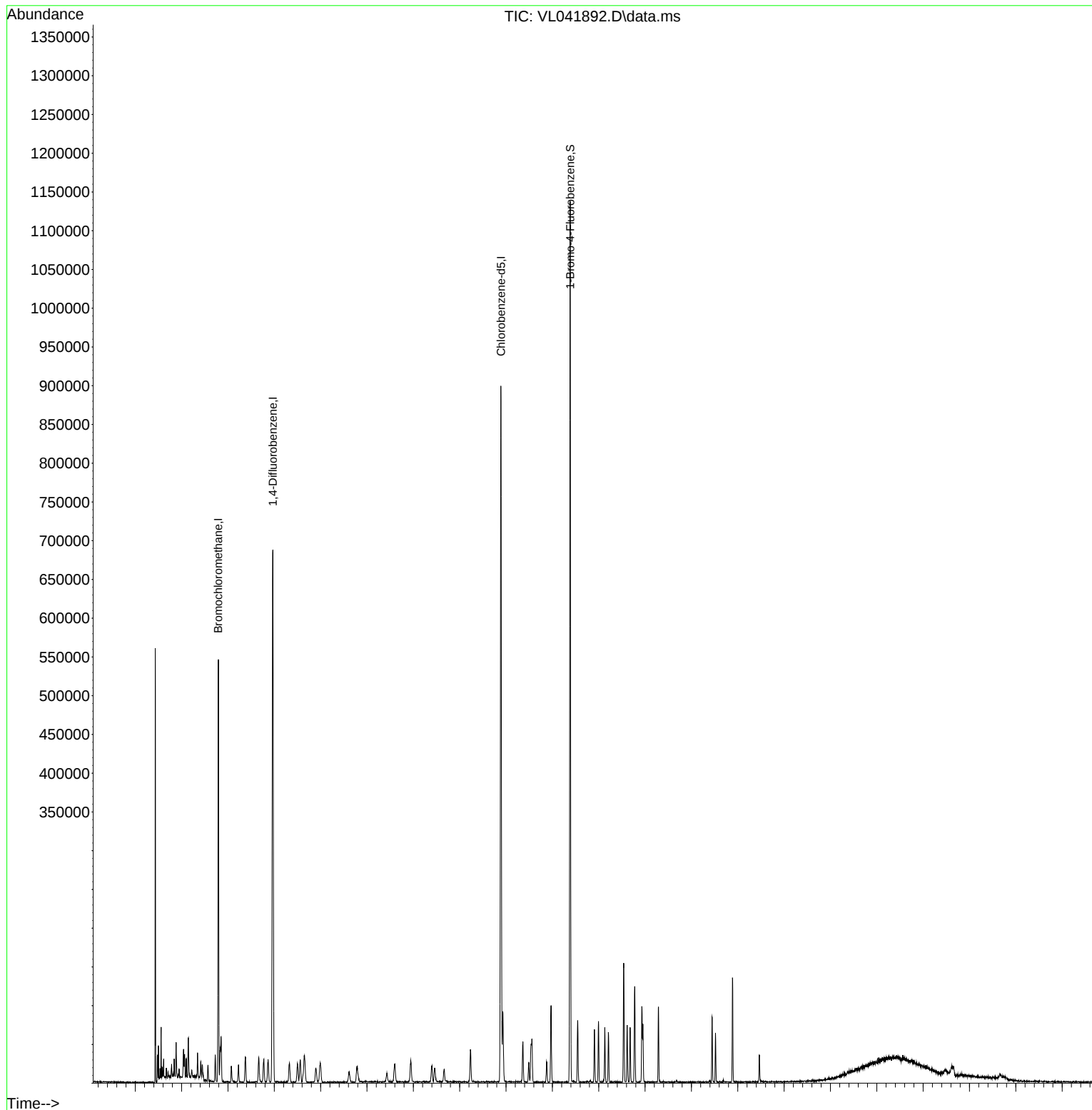
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041893.D
 Acq On : 14 Jan 2025 15:01
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	143362	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	425675	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	372545	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	292283	9.961	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.600%
Target Compounds						
						Qvalue
5) Vinyl Chloride	1.583	62	828	0.111	ppbv	96
32) 1,1,1-Trichloroethane	3.383	97	2640m	0.095	ppbv	
35) Carbon Tetrachloride	3.768	117	2587m	0.097	ppbv	
38) Trichloroethene	4.557	130	1816m	0.117	ppbv	
52) Tetrachloroethene	8.234	164	1480m	0.109	ppbv	
54) 1,2-Dibromoethane	7.668	107	1872m	0.094	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.976	83	2816	0.097	ppbv	95
79) Naphthalene	13.520	128	3643	0.068	ppbv #	96

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

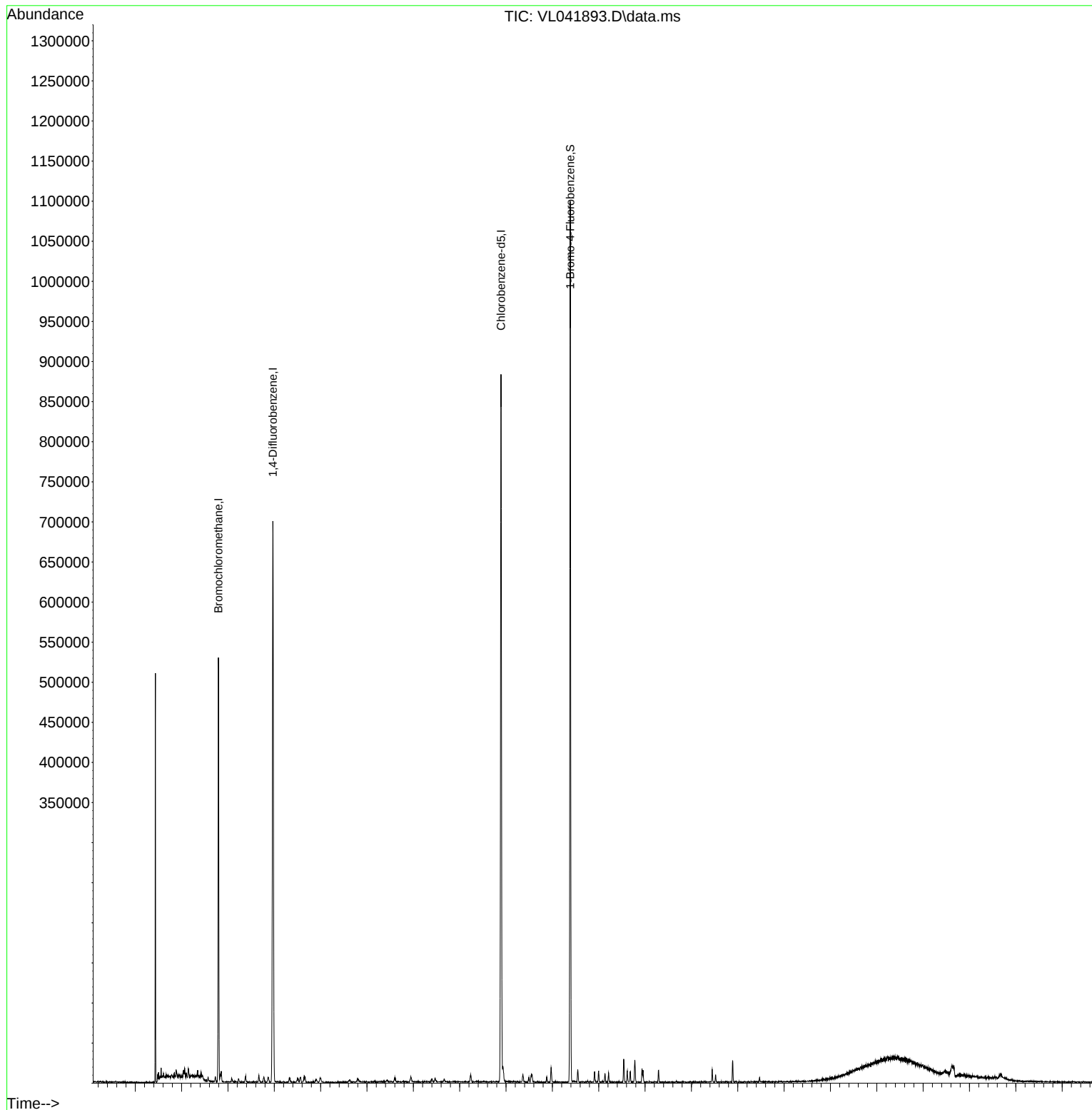
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Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 22:42:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041894.D
 Acq On : 14 Jan 2025 15:32
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
 Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141659	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	424686	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	367402	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	287792	9.945	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
52) Tetrachloroethene	8.250	164	408m	0.030	ppbv	Qvalue

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

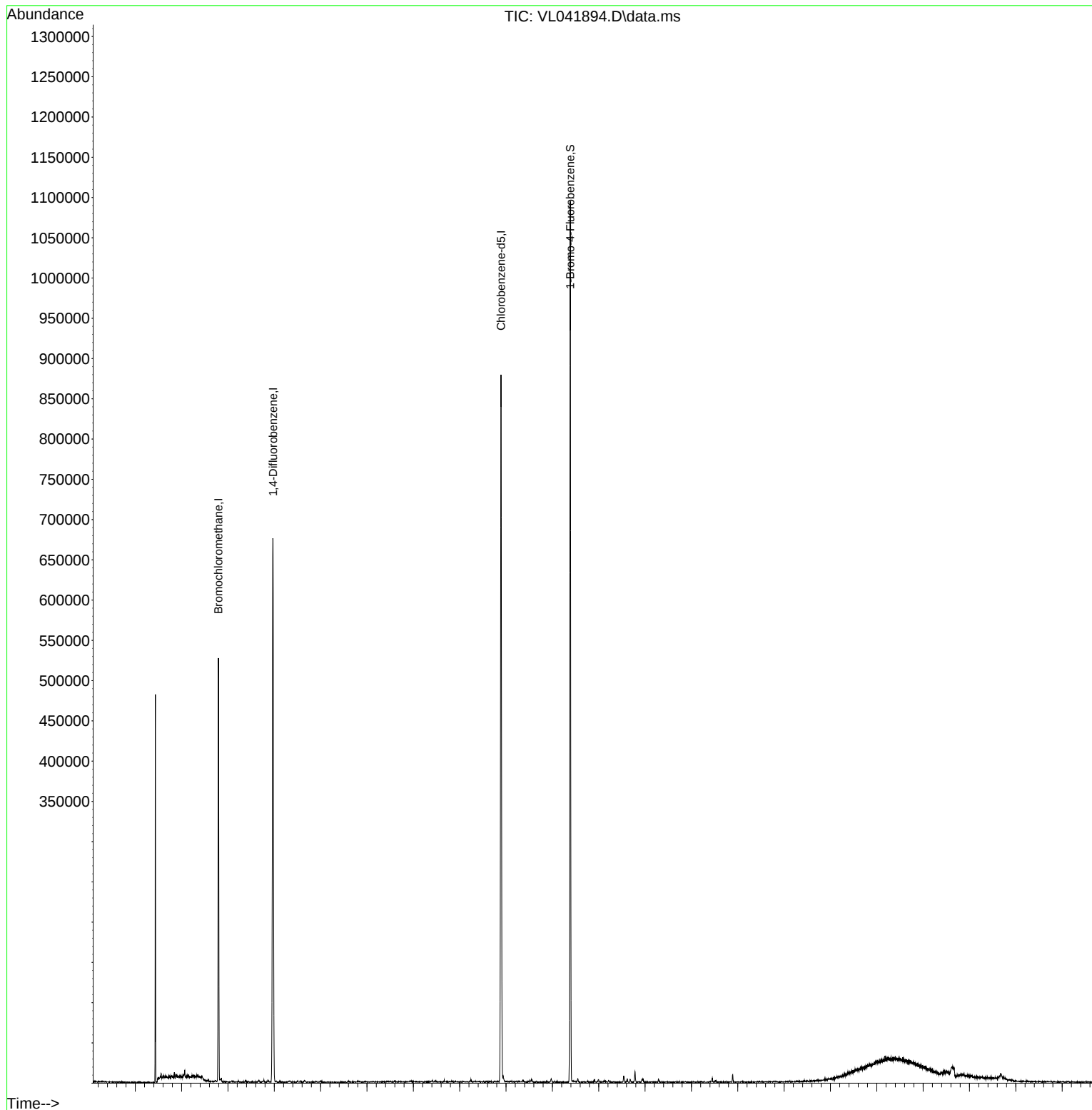
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Quant Time: Jan 14 21:21:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 16:31:18 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
Supervised By : Mahesh Dadoda 01/15/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

Quant Time: Jan 14 21:21:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Jan 14 16:31:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

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

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	304042	10.058	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.600%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	275248	14.266	ppbv	100
3) Chlorodifluoromethane	1.479	51	285437	14.121	ppbv	98
4) Chloromethane	1.534	50	106071	14.617	ppbv	98
5) Vinyl Chloride	1.583	62	104404	14.204	ppbv	98
6) Bromomethane	1.670	94	49415	14.106	ppbv	91
7) Chloroethane	1.709	64	41130	14.383	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	244666	14.510	ppbv	100
9) Propene	1.486	41	116343	13.972	ppbv	99
10) Heptane	4.998	43	326897	14.688	ppbv	98
11) Trichlorofluoromethane	1.881	101	299656	14.930	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.143	101	232607	14.787	ppbv	100
13) Ethanol	1.725	45	6109	10.016	ppbv	83
14) Bromoethene	1.784	108	83586	14.513	ppbv	98
15) Acetone	1.839	43	223353	13.128	ppbv	99
16) 1,3-Butadiene	1.612	39	109420	14.329	ppbv	99
17) tert-Butyl alcohol	2.046	59	298424	14.252	ppbv	99
18) 1,1-Dichloroethene	2.039	96	104645	14.759	ppbv	92
19) Isopropyl Alcohol	1.890	45	134050	13.288	ppbv	98
20) Methylene Chloride	2.065	84	88425	13.151	ppbv	98
21) Allyl Chloride	2.101	41	169875	14.419	ppbv	96
22) trans-1,2-Dichloroethene	2.347	96	118169	14.768	ppbv	97
23) Vinyl Acetate	2.470	43	116632	15.747	ppbv	98
24) 1,1-Dichloroethane	2.415	63	230015	14.862	ppbv	99
25) Ethyl Acetate	2.842	43	665170	14.499	ppbv	100
26) Hexane	2.836	57	263948	14.547	ppbv	97
27) Carbon Disulfide	2.156	76	278476	15.509	ppbv	99
28) Methyl tert-Butyl Ether	2.447	73	187986	13.555	ppbv	98
29) Chloroform	2.858	83	413733	14.424	ppbv	98
30) Cyclohexane	3.868	84	233398	14.830	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	271739	14.223	ppbv	94
32) 1,1,1-Trichloroethane	3.379	97	419117	15.271	ppbv	99
34) 2-Butanone	2.564	43	380813	14.262	ppbv	99
35) Carbon Tetrachloride	3.774	117	426619	16.146	ppbv	97
36) Benzene	3.667	78	553665	14.378	ppbv	100
37) 1,2-Dichloroethane	3.227	62	321362	14.859	ppbv	99
38) Trichloroethene	4.564	130	222328	14.543	ppbv	98
39) 1,2-Dichloropropane	4.328	63	191532	14.179	ppbv	98
40) 1,4-Dioxane	4.596	88	97521	14.305	ppbv #	93
41) Tetrahydrofuran	3.062	42	217707	14.953	ppbv	99
42) Bromodichloromethane	4.502	83	445130	15.351	ppbv	95
43) Methyl Methacrylate	4.894	69	214564	14.999	ppbv	99
44) 2,2,4-Trimethylpentane	4.655	57	909437	14.601	ppbv	100
45) t-1,3-Dichloropropene	6.435	75	218001	16.281	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041895.D
 Acq On : 14 Jan 2025 16:05
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 14 21:21:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 16:31:18 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.619	75	281492	16.011	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	211658	14.782	ppbv	95
48) Dibromochloromethane	7.402	129	356392	16.134	ppbv	100
49) Bromoform	9.493	173	307617	16.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.774	43	533053	14.653	ppbv	99
51) 2-Hexanone	7.451	43	430297	15.363	ppbv #	97
52) Tetrachloroethene	8.237	164	183208	13.721	ppbv	96
53) Toluene	6.949	91	634515	15.126	ppbv	99
54) 1,2-Dibromoethane	7.665	107	295967	15.036	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.937	131	280809	14.665	ppbv	98
57) Chlorobenzene	8.933	112	479092	13.533	ppbv	99
58) Ethyl Benzene	9.367	91	887072	14.789	ppbv	100
59) m/p-Xylene	9.565	91	1420585m	29.506	ppbv	
60) o-Xylene	9.976	91	704577	14.765	ppbv	100
61) Styrene	9.882	104	342490	15.999	ppbv	99
62) Isopropylbenzene	10.548	105	1063809	14.406	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	426347	14.194	ppbv	100
64) n-propylbenzene	10.998	120	266972	14.308	ppbv	100
65) tert-Butylbenzene	11.542	119	947297	14.077	ppbv	98
66) Benzyl Chloride	11.626	91	68623	16.475	ppbv	98
67) sec-Butylbenzene	11.778	105	1292858	13.952	ppbv	100
69) p-Isopropyltoluene	11.937	119	1089109	14.273	ppbv	99
70) n-Butylbenzene	12.290	91	1059002	13.994	ppbv	99
71) 2-Chlorotoluene	10.911	91	797555	14.601	ppbv	100
72) 4-Ethyltoluene	11.134	105	847451	14.846	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	733759	14.556	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	773569	14.170	ppbv	92
75) 1,3-Dichlorobenzene	11.620	146	443828	13.720	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	447164	14.129	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	429118	13.385	ppbv	99
78) Hexachloro-1,3-Butadiene	13.892	225	335016	12.731	ppbv	100
79) Naphthalene	13.523	128	724573	13.183	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	278955	10.704	ppbv	99
81) 1,2,4-Trichlorobenzene	13.452	180	342977	12.784	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	141664	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	417936	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	373391	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 298000 10.133 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	190925	9.894	ppbv	97
3) Chlorodifluoromethane	1.479	51	200455	9.916	ppbv	100
4) Chloromethane	1.534	50	71767	9.889	ppbv	95
5) Vinyl Chloride	1.583	62	71974	9.791	ppbv	94
6) Bromomethane	1.670	94	33594	9.589	ppbv	96
7) Chloroethane	1.706	64	29553	10.333	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	163783	9.712	ppbv	99
9) Propene	1.486	41	82320	9.886	ppbv	99
10) Heptane	4.998	43	225230	10.119	ppbv	99
11) Trichlorofluoromethane	1.881	101	198523	9.890	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	159862	10.162	ppbv	100
13) Ethanol	1.725	45	3780	6.197	ppbv	97
14) Bromoethene	1.784	108	57260	9.941	ppbv	98
15) Acetone	1.839	43	150112	8.822	ppbv	98
16) 1,3-Butadiene	1.612	39	73640	9.643	ppbv	100
17) tert-Butyl alcohol	2.046	59	204358	9.758	ppbv	98
18) 1,1-Dichloroethene	2.039	96	71011	10.015	ppbv	96
19) Isopropyl Alcohol	1.890	45	93592	9.277	ppbv	97
20) Methylene Chloride	2.065	84	60115	8.940	ppbv	97
21) Allyl Chloride	2.101	41	118907	10.092	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	77379	9.669	ppbv	96
23) Vinyl Acetate	2.470	43	80428	9.536	ppbv #	95
24) 1,1-Dichloroethane	2.415	63	155440	10.042	ppbv	98
25) Ethyl Acetate	2.842	43	458484	9.993	ppbv	100
26) Hexane	2.832	57	184436	10.164	ppbv	99
27) Carbon Disulfide	2.156	76	186668	10.395	ppbv	98
28) Methyl tert-Butyl Ether	2.447	73	112489	8.110	ppbv	99
29) Chloroform	2.855	83	282467	9.847	ppbv	99
30) Cyclohexane	3.865	84	159296	10.120	ppbv	99
31) cis-1,2-Dichloroethene	2.729	61	187012	9.787	ppbv	97
32) 1,1,1-Trichloroethane	3.376	97	284661	10.371	ppbv	99
34) 2-Butanone	2.564	43	261536	9.840	ppbv	99
35) Carbon Tetrachloride	3.771	117	285391	10.871	ppbv	96
36) Benzene	3.667	78	374271	9.764	ppbv	99
37) 1,2-Dichloroethane	3.227	62	214545	9.966	ppbv	100
38) Trichloroethene	4.564	130	153255	10.075	ppbv	95
39) 1,2-Dichloropropane	4.324	63	130483	9.704	ppbv	97
40) 1,4-Dioxane	4.599	88	63736	9.386	ppbv #	99
41) Tetrahydrofuran	3.062	42	148132	10.255	ppbv	98
42) Bromodichloromethane	4.506	83	299656	10.381	ppbv	96
43) Methyl Methacrylate	4.894	69	145663	10.229	ppbv	100
44) 2,2,4-Trimethylpentane	4.654	57	619804	9.997	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	145145	10.889	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 01/15/2025
 Supervised By : Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	186898	10.680	ppbv	98
47) 1,1,2-Trichloroethane	6.596	97	140891	9.886	ppbv	97
48) Dibromochloromethane	7.399	129	238244	10.835	ppbv	100
49) Bromoform	9.493	173	201141	11.136	ppbv	99
50) 4-Methyl-2-Pentanone	5.771	43	363675	10.023	ppbv	99
51) 2-Hexanone	7.451	43	284058	10.189	ppbv #	99
52) Tetrachloroethene	8.237	164	127806	9.616	ppbv	98
53) Toluene	6.949	91	427033	10.227	ppbv	99
54) 1,2-Dibromoethane	7.665	107	199339	10.175	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.937	131	188209	10.103	ppbv	99
57) Chlorobenzene	8.933	112	329025	9.553	ppbv	99
58) Ethyl Benzene	9.364	91	601857	10.314	ppbv	99
59) m/p-Xylene	9.561	91	964838m	20.628	ppbv	
60) o-Xylene	9.972	91	480442	10.348	ppbv	100
61) Styrene	9.878	104	229797	11.034	ppbv	99
62) Isopropylbenzene	10.548	105	728189	10.136	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	290998	9.809	ppbv	100
64) n-propylbenzene	10.998	120	182397	10.048	ppbv	98
65) tert-Butylbenzene	11.539	119	657521	10.043	ppbv	100
66) Benzyl Chloride	11.623	91	42509	10.490	ppbv #	97
67) sec-Butylbenzene	11.778	105	901260	9.997	ppbv	98
69) p-Isopropyltoluene	11.934	119	745566	10.043	ppbv	99
70) n-Butylbenzene	12.290	91	733637	9.965	ppbv	99
71) 2-Chlorotoluene	10.911	91	543858	10.234	ppbv	100
72) 4-Ethyltoluene	11.134	105	568921	10.245	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	493388	10.061	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	528225	9.946	ppbv	98
75) 1,3-Dichlorobenzene	11.617	146	304133	9.664	ppbv	99
76) 1,4-Dichlorobenzene	11.681	146	297765	9.670	ppbv	99
77) 1,2-Dichlorobenzene	11.956	146	298039	9.555	ppbv	99
78) Hexachloro-1,3-Butadiene	13.889	225	228592	8.929	ppbv	99
79) Naphthalene	13.523	128	497063	9.295	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	187571	7.398	ppbv	98
81) 1,2,4-Trichlorobenzene	13.448	180	236181	9.049	ppbv	99

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

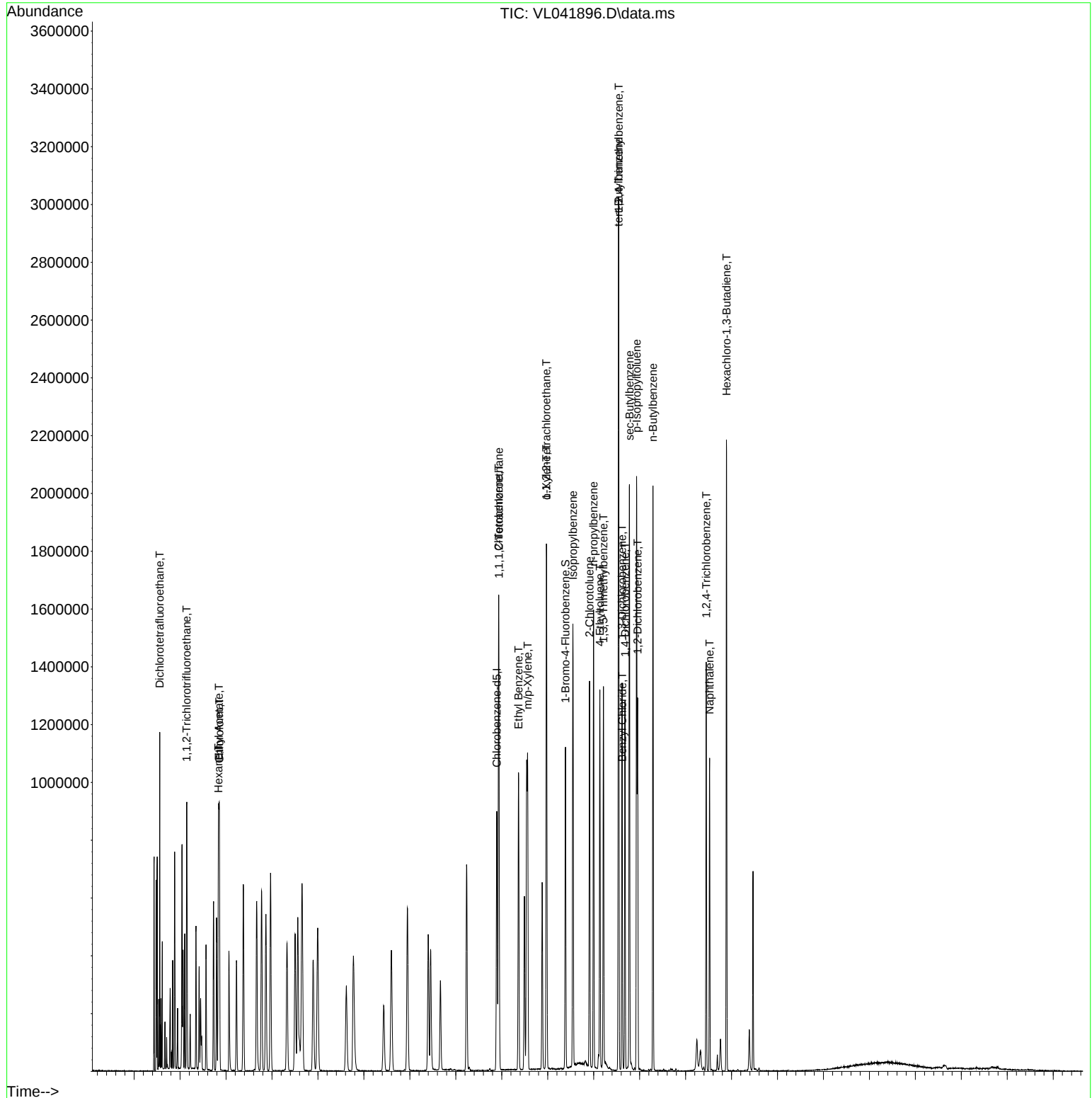
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/15/2025
Supervised By :Mahesh Dadoda 01/15/2025

Quant Time: Jan 15 03:23:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	1.362	1.348	1.0	96	0.00
3	Chlorodifluoromethane	1.427	1.415	0.8	99	0.00
4	Chloromethane	0.512	0.507	1.0	96	0.00
5 T	Vinyl Chloride	0.519	0.508	2.1	101	0.00
6 T	Bromomethane	0.247	0.237	4.0	96	0.00
7	Chloroethane	0.202	0.209	-3.5	101	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.156	2.9	98	0.00
9 T	Propene	0.588	0.581	1.2	95	0.00
10 T	Heptane	1.571	1.590	-1.2	97	0.00
11 T	Trichlorofluoromethane	1.417	1.401	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	99	0.00
13	Ethanol	0.043	0.027#	37.2#	91	0.00
14 T	Bromoethene	0.407	0.404	0.7	101	0.00
15 T	Acetone	1.201	1.060	11.7	99	0.00
16 T	1,3-Butadiene	0.539	0.520	3.5	98	0.00
17	tert-Butyl alcohol	1.478	1.443	2.4	96	0.00
18 T	1,1-Dichloroethene	0.501	0.501	0.0	102	0.00
19 T	Isopropyl Alcohol	0.712	0.661	7.2	99	0.00
20 T	Methylene Chloride	0.475	0.424	10.7	101	0.00
21 T	Allyl Chloride	0.832	0.839	-0.8	99	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.546	3.4	94	0.00
23 T	Vinyl Acetate	0.595	0.568	4.5	98	0.00
24 T	1,1-Dichloroethane	1.093	1.097	-0.4	100	0.00
25 T	Ethyl Acetate	3.239	3.236	0.1	97	0.00
26 T	Hexane	1.281	1.302	-1.6	96	0.00
27 T	Carbon Disulfide	1.268	1.318	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.794	18.9	95	0.00
29 T	Chloroform	2.025	1.994	1.5	97	0.00
30 T	Cyclohexane	1.111	1.124	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.320	2.1	97	0.00
32 T	1,1,1-Trichloroethane	1.938	2.009	-3.7	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.00
34 T	2-Butanone	0.636	0.626	1.6	97	0.00
35 T	Carbon Tetrachloride	0.628	0.683	-8.8	98	0.00
36 T	Benzene	0.917	0.896	2.3	94	0.00
37 T	1,2-Dichloroethane	0.515	0.513	0.4	97	0.00
38 T	Trichloroethene	0.364	0.367	-0.8	96	0.00
39 T	1,2-Dichloropropane	0.322	0.312	3.1	95	0.00
40 T	1,4-Dioxane	0.162	0.153	5.6	96	0.00
41 T	Tetrahydrofuran	0.346	0.354	-2.3	95	0.00
42 T	Bromodichloromethane	0.691	0.717	-3.8	98	0.00
43	Methyl Methacrylate	0.341	0.349	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.483	0.1	95	0.00
45 T	t-1,3-Dichloropropene	0.319	0.347	-8.8	96	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.447	-6.7	93	0.00
47 T	1,1,2-Trichloroethane	0.341	0.337	1.2	94	0.00
48 T	Dibromochloromethane	0.526	0.570	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.481	-11.3	97	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.870	-0.2	97	0.00
51 T	2-Hexanone	0.667	0.680	-1.9	97	0.00
52 T	Tetrachloroethene	0.318	0.306	3.8	97	0.00
53 T	Toluene	0.999	1.022	-2.3	94	0.00
54 T	1,2-Dibromoethane	0.469	0.477	-1.7	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.504	-1.0	98	0.00
57 T	Chlorobenzene	0.922	0.881	4.4	97	0.00
58 T	Ethyl Benzene	1.563	1.612	-3.1	97	0.00
59 T	m/p-Xylene	1.253	1.292	-3.1	99	0.00
60 T	o-Xylene	1.243	1.287	-3.5	98	0.00
61 T	Styrene	0.558	0.615	-10.2	98	0.00
62	Isopropylbenzene	1.924	1.950	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.779	2.0	97	0.00
64	n-propylbenzene	0.486	0.488	-0.4	97	0.00
65	tert-Butylbenzene	1.753	1.761	-0.5	98	0.00
66 T	Benzyl Chloride	0.109	0.114	-4.6	92	0.00
67	sec-Butylbenzene	2.414	2.414	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.798	-1.3	95	0.00
69	p-Isopropyltoluene	1.988	1.997	-0.5	97	0.00
70	n-Butylbenzene	1.972	1.965	0.4	97	0.00
71	2-Chlorotoluene	1.423	1.457	-2.4	98	0.00
72 T	4-Ethyltoluene	1.487	1.524	-2.5	97	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.321	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.415	0.5	98	0.00
75 T	1,3-Dichlorobenzene	0.843	0.815	3.3	98	0.00
76 T	1,4-Dichlorobenzene	0.825	0.797	3.4	97	0.00
77 T	1,2-Dichlorobenzene	0.835	0.798	4.4	98	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.612	10.8	97	0.00
79 T	Naphthalene	1.432	1.331	7.1	99	0.00
80 T	Naphthalene,2-methyl-	0.679	0.502	26.1	101	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.633	9.4	99	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	93	0.00
2 T	Dichlorodifluoromethane	10.000	9.894	1.1	96	0.00
3	Chlorodifluoromethane	10.000	9.916	0.8	99	0.00
4	Chloromethane	10.000	9.889	1.1	96	0.00
5 T	Vinyl Chloride	10.000	9.791	2.1	101	0.00
6 T	Bromomethane	10.000	9.589	4.1	96	0.00
7	Chloroethane	10.000	10.333	-3.3	101	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.712	2.9	98	0.00
9 T	Propene	10.000	9.886	1.1	95	0.00
10 T	Heptane	10.000	10.119	-1.2	97	0.00
11 T	Trichlorofluoromethane	10.000	9.890	1.1	98	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.162	-1.6	99	0.00
13	Ethanol	10.000	6.197	38.0#	91	0.00
14 T	Bromoethene	10.000	9.941	0.6	101	0.00
15 T	Acetone	10.000	8.822	11.8	99	0.00
16 T	1,3-Butadiene	10.000	9.643	3.6	98	0.00
17	tert-Butyl alcohol	10.000	9.758	2.4	96	0.00
18 T	1,1-Dichloroethene	10.000	10.015	-0.2	102	0.00
19 T	Isopropyl Alcohol	10.000	9.277	7.2	99	0.00
20 T	Methylene Chloride	10.000	8.940	10.6	101	0.00
21 T	Allyl Chloride	10.000	10.092	-0.9	99	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.669	3.3	94	0.00
23 T	Vinyl Acetate	10.000	9.536	4.6	98	0.00
24 T	1,1-Dichloroethane	10.000	10.042	-0.4	100	0.00
25 T	Ethyl Acetate	10.000	9.993	0.1	97	0.00
26 T	Hexane	10.000	10.164	-1.6	96	0.00
27 T	Carbon Disulfide	10.000	10.395	-3.9	97	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.110	18.9	95	0.00
29 T	Chloroform	10.000	9.847	1.5	97	0.00
30 T	Cyclohexane	10.000	10.120	-1.2	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.787	2.1	97	0.00
32 T	1,1,1-Trichloroethane	10.000	10.371	-3.7	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	93	0.00
34 T	2-Butanone	10.000	9.840	1.6	97	0.00
35 T	Carbon Tetrachloride	10.000	10.871	-8.7	98	0.00
36 T	Benzene	10.000	9.764	2.4	94	0.00
37 T	1,2-Dichloroethane	10.000	9.966	0.3	97	0.00
38 T	Trichloroethene	10.000	10.075	-0.7	96	0.00
39 T	1,2-Dichloropropane	10.000	9.704	3.0	95	0.00
40 T	1,4-Dioxane	10.000	9.386	6.1	96	0.00
41 T	Tetrahydrofuran	10.000	10.255	-2.6	95	0.00
42 T	Bromodichloromethane	10.000	10.381	-3.8	98	0.00
43	Methyl Methacrylate	10.000	10.229	-2.3	96	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.997	0.0	95	0.00
45 T	t-1,3-Dichloropropene	10.000	10.889	-8.9	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.680	-6.8	93	0.00
47 T	1,1,2-Trichloroethane	10.000	9.886	1.1	94	0.00
48 T	Dibromochloromethane	10.000	10.835	-8.4	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041896.D
 Acq On : 14 Jan 2025 17:33
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Quant Time: Jan 15 03:23:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	11.136	-11.4	97	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.023	-0.2	97	0.00
51 T	2-Hexanone	10.000	10.189	-1.9	97	0.00
52 T	Tetrachloroethene	10.000	9.616	3.8	97	0.00
53 T	Toluene	10.000	10.227	-2.3	94	0.00
54 T	1,2-Dibromoethane	10.000	10.175	-1.8	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.103	-1.0	98	0.00
57 T	Chlorobenzene	10.000	9.553	4.5	97	0.00
58 T	Ethyl Benzene	10.000	10.314	-3.1	97	0.00
59 T	m/p-Xylene	20.000	20.628	-3.1	99	0.00
60 T	o-Xylene	10.000	10.348	-3.5	98	0.00
61 T	Styrene	10.000	11.034	-10.3	98	0.00
62	Isopropylbenzene	10.000	10.136	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.809	1.9	97	0.00
64	n-propylbenzene	10.000	10.048	-0.5	97	0.00
65	tert-Butylbenzene	10.000	10.043	-0.4	98	0.00
66 T	Benzyl Chloride	10.000	10.490	-4.9	92	0.00
67	sec-Butylbenzene	10.000	9.997	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.133	-1.3	95	0.00
69	p-Isopropyltoluene	10.000	10.043	-0.4	97	0.00
70	n-Butylbenzene	10.000	9.965	0.4	97	0.00
71	2-Chlorotoluene	10.000	10.234	-2.3	98	0.00
72 T	4-Ethyltoluene	10.000	10.245	-2.4	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.061	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.946	0.5	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.664	3.4	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.670	3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.555	4.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.929	10.7	97	0.00
79 T	Naphthalene	10.000	9.295	7.1	99	0.00
80 T	Naphthalene,2-methyl-	10.000	7.398	26.0	101	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.049	9.5	99	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.: Q1303 SAS No.: Q1303 SDG No.: Q1303

Instrument ID: MSVOA_L Calibration Date/Time: 02/10/2025 08:32

Lab File ID: VL041977.D Init. Calib. Date(s): 01/14/2025 01/14/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 12:55 16:05

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.519	0.540		4.05	30
Heptane	1.571	1.754		11.65	30
1,1-Dichloroethene	0.501	0.493		-1.6	30
Cyclohexane	1.111	1.149		3.42	30
cis-1,2-Dichloroethene	1.349	1.330		-1.41	30
1,1,1-Trichloroethane	1.938	2.010		3.71	30
2,2,4-Trimethylpentane	1.484	1.821		22.71	30
Benzene	0.917	1.068		16.47	30
Trichloroethene	0.364	0.411		12.91	30
Toluene	0.999	1.152		15.31	30
1,2-Dibromoethane	0.469	0.552		17.7	30
Tetrachloroethene	0.318	0.341		7.23	30
Ethyl Benzene	1.563	1.845		18.04	30
m/p-Xylene	1.253	1.573		25.54	30
o-Xylene	1.243	1.561		25.58	30
1,3,5-Trimethylbenzene	1.313	1.611		22.7	30
1,2,4-Trimethylbenzene	1.422	1.769		24.4	30
Naphthalene	1.432	1.537		7.33	30
1-Bromo-4-Fluorobenzene	0.788	0.783		-0.63	30
Hexane	1.281	1.382		7.88	30

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041977.D
 Acq On : 10 Feb 2025 08:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:18:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.780	49	154218	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	410131	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	354638	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.367 95 277551 9.936 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	205069	9.762	ppbv	98
3) Chlorodifluoromethane	1.473	51	235186	10.687	ppbv	100
4) Chloromethane	1.528	50	87187	11.036	ppbv	98
5) Vinyl Chloride	1.576	62	83244	10.403	ppbv	100
6) Bromomethane	1.664	94	38569	10.113	ppbv	93
7) Chloroethane	1.699	64	33775	10.848	ppbv	94
8) Dichlorotetrafluoroethane	1.551	85	186089	10.137	ppbv	98
9) Propene	1.479	41	93627	10.328	ppbv	96
10) Heptane	4.965	43	270466	11.162	ppbv	97
11) Trichlorofluoromethane	1.871	101	211625	9.685	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.133	101	173899	10.154	ppbv	99
13) Ethanol	1.716	45	4675	7.041	ppbv	95
14) Bromoethene	1.777	108	58266	9.292	ppbv	96
15) Acetone	1.829	43	180346	9.736	ppbv	100
16) 1,3-Butadiene	1.606	39	87342	10.506	ppbv	98
17) tert-Butyl alcohol	2.036	59	209967	9.210	ppbv	97
18) 1,1-Dichloroethene	2.030	96	76076	9.856	ppbv	97
19) Isopropyl Alcohol	1.881	45	99565	9.066	ppbv	91
20) Methylene Chloride	2.055	84	67574	9.231	ppbv	92
21) Allyl Chloride	2.091	41	135890	10.595	ppbv	97
22) trans-1,2-Dichloroethene	2.334	96	87114	10.000	ppbv	100
23) Vinyl Acetate	2.457	43	97772	10.649	ppbv	98
24) 1,1-Dichloroethane	2.402	63	173995	10.326	ppbv	99
25) Ethyl Acetate	2.829	43	557021	11.152	ppbv	100
26) Hexane	2.819	57	213109	10.788	ppbv	93
27) Carbon Disulfide	2.143	76	212559	10.873	ppbv	98
28) Methyl tert-Butyl Ether	2.434	73	114672	7.595	ppbv	99
29) Chloroform	2.842	83	334190	10.702	ppbv	99
30) Cyclohexane	3.845	84	177133	10.338	ppbv	97
31) cis-1,2-Dichloroethene	2.712	61	205042	9.857	ppbv	94
32) 1,1,1-Trichloroethane	3.360	97	309991	10.374	ppbv	99
34) 2-Butanone	2.551	43	319120	12.235	ppbv	97
35) Carbon Tetrachloride	3.751	117	314905	12.224	ppbv	98
36) Benzene	3.648	78	437818	11.639	ppbv	98
37) 1,2-Dichloroethane	3.211	62	240312	11.375	ppbv	98
38) Trichloroethene	4.538	130	168613	11.295	ppbv	99
39) 1,2-Dichloropropane	4.302	63	153848	11.659	ppbv	99
40) 1,4-Dioxane	4.574	88	72221	10.838	ppbv #	96
41) Tetrahydrofuran	3.049	42	173245	12.222	ppbv	96
42) Bromodichloromethane	4.480	83	340153	12.008	ppbv	99
43) Methyl Methacrylate	4.868	69	154005	11.021	ppbv	97
44) 2,2,4-Trimethylpentane	4.625	57	746941	12.276	ppbv	99
45) t-1,3-Dichloropropene	6.402	75	139758	10.685	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041977.D
 Acq On : 10 Feb 2025 08:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:18:00 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.587	75	192080	11.184	ppbv	98
47) 1,1,2-Trichloroethane	6.567	97	169529	12.122	ppbv	97
48) Dibromochloromethane	7.373	129	267572	12.400	ppbv	99
49) Bromoform	9.474	173	223538	12.611	ppbv	100
50) 4-Methyl-2-Pentanone	5.739	43	432571	12.149	ppbv	98
51) 2-Hexanone	7.425	43	334291	12.218	ppbv #	96
52) Tetrachloroethene	8.215	164	140056	10.738	ppbv	98
53) Toluene	6.920	91	472272	11.526	ppbv	99
54) 1,2-Dibromoethane	7.642	107	226578	11.785	ppbv	88
56) 1,1,1,2-Tetrachloroethane	8.914	131	222785	12.591	ppbv	99
57) Chlorobenzene	8.911	112	395804	12.099	ppbv	99
58) Ethyl Benzene	9.344	91	654282	11.805	ppbv	98
59) m/p-Xylene	9.542	91	1115572m	25.112	ppbv	
60) o-Xylene	9.956	91	553733	12.558	ppbv	98
61) Styrene	9.862	104	239238	12.095	ppbv	98
62) Isopropylbenzene	10.532	105	832163	12.196	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.953	83	370655	13.154	ppbv	99
64) n-propylbenzene	10.982	120	218210	12.657	ppbv	97
65) tert-Butylbenzene	11.526	119	768497	12.359	ppbv	98
66) Benzyl Chloride	11.610	91	45377	11.790	ppbv	97
67) sec-Butylbenzene	11.762	105	1061115	12.393	ppbv	99
69) p-Isopropyltoluene	11.921	119	879879	12.479	ppbv	99
70) n-Butylbenzene	12.277	91	854015	12.214	ppbv	100
71) 2-Chlorotoluene	10.895	91	610952	12.105	ppbv	98
72) 4-Ethyltoluene	11.118	105	661607	12.544	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	571249	12.264	ppbv	94
74) 1,2,4-Trimethylbenzene	11.529	105	627355	12.437	ppbv	96
75) 1,3-Dichlorobenzene	11.600	146	366759	12.270	ppbv	99
76) 1,4-Dichlorobenzene	11.665	146	364383	12.460	ppbv	99
77) 1,2-Dichlorobenzene	11.940	146	367508	12.406	ppbv	100
78) Hexachloro-1,3-Butadiene	13.879	225	244469	10.054	ppbv	100
79) Naphthalene	13.507	128	544923	10.729	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	152056	6.315	ppbv	98
81) 1,2,4-Trichlorobenzene	13.435	180	243210	9.811	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041977.D
 Acq On : 10 Feb 2025 08:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 11 01:18:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	101	-0.02
2 T	Dichlorodifluoromethane	1.362	1.330	2.3	104	0.00
3	Chlorodifluoromethane	1.427	1.525	-6.9	116	0.00
4	Chloromethane	0.512	0.565	-10.4	116	0.00
5 T	Vinyl Chloride	0.519	0.540	-4.0	117	0.00
6 T	Bromomethane	0.247	0.250	-1.2	111	0.00
7	Chloroethane	0.202	0.219	-8.4	115	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.207	-1.4	112	0.00
9 T	Propene	0.588	0.607	-3.2	108	0.00
10 T	Heptane	1.571	1.754	-11.6	116	-0.04
11 T	Trichlorofluoromethane	1.417	1.372	3.2	104	-0.01
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.128	-1.6	108	-0.01
13	Ethanol	0.043	0.030#	30.2#	113	0.00
14 T	Bromoethene	0.407	0.378	7.1	103	0.00
15 T	Acetone	1.201	1.169	2.7	119	-0.01
16 T	1,3-Butadiene	0.539	0.566	-5.0	116	0.00
17	tert-Butyl alcohol	1.478	1.361	7.9	99	0.00
18 T	1,1-Dichloroethene	0.501	0.493	1.6	109	0.00
19 T	Isopropyl Alcohol	0.712	0.646	9.3	105	0.00
20 T	Methylene Chloride	0.475	0.438	7.8	114	-0.01
21 T	Allyl Chloride	0.832	0.881	-5.9	113	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.565	0.0	106	-0.01
23 T	Vinyl Acetate	0.595	0.634	-6.6	119	-0.01
24 T	1,1-Dichloroethane	1.093	1.128	-3.2	112	-0.02
25 T	Ethyl Acetate	3.239	3.612	-11.5	118	-0.02
26 T	Hexane	1.281	1.382	-7.9	111	-0.02
27 T	Carbon Disulfide	1.268	1.378	-8.7	111	-0.01
28 T	Methyl tert-Butyl Ether	0.979	0.744	24.0	97	-0.02
29 T	Chloroform	2.025	2.167	-7.0	115	-0.02
30 T	Cyclohexane	1.111	1.149	-3.4	107	-0.02
31 T	cis-1,2-Dichloroethene	1.349	1.330	1.4	106	-0.02
32 T	1,1,1-Trichloroethane	1.938	2.010	-3.7	107	-0.02
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	-0.03
34 T	2-Butanone	0.636	0.778	-22.3	118	-0.02
35 T	Carbon Tetrachloride	0.628	0.768	-22.3	108	-0.03
36 T	Benzene	0.917	1.068	-16.5	110	-0.02
37 T	1,2-Dichloroethane	0.515	0.586	-13.8	109	-0.02
38 T	Trichloroethene	0.364	0.411	-12.9	106	-0.03
39 T	1,2-Dichloropropane	0.322	0.375	-16.5	112	-0.03
40 T	1,4-Dioxane	0.162	0.176	-8.6	109	-0.03
41 T	Tetrahydrofuran	0.346	0.422	-22.0	111	-0.02
42 T	Bromodichloromethane	0.691	0.829	-20.0	111	-0.03
43	Methyl Methacrylate	0.341	0.376	-10.3	101	-0.03
44 T	2,2,4-Trimethylpentane	1.484	1.821	-22.7	114	-0.03
45 T	t-1,3-Dichloropropene	0.319	0.341	-6.9	92	-0.03
46 T	cis-1,3-Dichloropropene	0.419	0.468	-11.7	96	-0.04
47 T	1,1,2-Trichloroethane	0.341	0.413	-21.1	113	-0.03
48 T	Dibromochloromethane	0.526	0.652	-24.0	109	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041977.D
 Acq On : 10 Feb 2025 08:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 11 01:18:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	Bromoform	0.432	0.545	-26.2	108	-0.02
50 T	4-Methyl-2-Pentanone	0.868	1.055	-21.5	116	-0.04
51 T	2-Hexanone	0.667	0.815	-22.2	114	-0.03
52 T	Tetrachloroethene	0.318	0.341	-7.2	107	-0.03
53 T	Toluene	0.999	1.152	-15.3	104	-0.03
54 T	1,2-Dibromoethane	0.469	0.552	-17.7	111	-0.03
55 I	Chlorobenzene-d5	1.000	1.000	0.0	89	-0.02
56	1,1,1,2-Tetrachloroethane	0.499	0.628	-25.9	116	-0.03
57 T	Chlorobenzene	0.922	1.116	-21.0	117	-0.03
58 T	Ethyl Benzene	1.563	1.845	-18.0	105	-0.02
59 T	m/p-Xylene	1.253	1.573	-25.5	114	-0.02
60 T	o-Xylene	1.243	1.561	-25.6	113	-0.02
61 T	Styrene	0.558	0.675	-21.0	102	-0.02
62	Isopropylbenzene	1.924	2.347	-22.0	112	-0.02
63 T	1,1,2,2-Tetrachloroethane	0.795	1.045	-31.4#	123	-0.02
64	n-propylbenzene	0.486	0.615	-26.5	116	-0.02
65	tert-Butylbenzene	1.753	2.167	-23.6	115	-0.02
66 T	Benzyl Chloride	0.109	0.128	-17.4	99	-0.02
67	sec-Butylbenzene	2.414	2.992	-23.9	115	-0.02
68 S	1-Bromo-4-Fluorobenzene	0.788	0.783	0.6	89	-0.02
69	p-Isopropyltoluene	1.988	2.481	-24.8	114	-0.02
70	n-Butylbenzene	1.972	2.408	-22.1	112	-0.02
71	2-Chlorotoluene	1.423	1.723	-21.1	110	-0.02
72 T	4-Ethyltoluene	1.487	1.866	-25.5	113	-0.02
73 T	1,3,5-Trimethylbenzene	1.313	1.611	-22.7	113	-0.02
74 T	1,2,4-Trimethylbenzene	1.422	1.769	-24.4	116	-0.02
75 T	1,3-Dichlorobenzene	0.843	1.034	-22.7	118	-0.02
76 T	1,4-Dichlorobenzene	0.825	1.027	-24.5	118	-0.02
77 T	1,2-Dichlorobenzene	0.835	1.036	-24.1	121	-0.02
78 T	Hexachloro-1,3-Butadiene	0.686	0.689	-0.4	104	-0.02
79 T	Naphthalene	1.432	1.537	-7.3	108	-0.02
80 T	Naphthalene,2-methyl-	0.679	0.429	36.8#	82	-0.02
81 T	1,2,4-Trichlorobenzene	0.699	0.686	1.9	102	-0.02

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041977.D
 Acq On : 10 Feb 2025 08:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 11 01:18:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	101	-0.02
2 T	Dichlorodifluoromethane	10.000	9.762	2.4	104	0.00
3	Chlorodifluoromethane	10.000	10.687	-6.9	116	0.00
4	Chloromethane	10.000	11.036	-10.4	116	0.00
5 T	Vinyl Chloride	10.000	10.403	-4.0	117	0.00
6 T	Bromomethane	10.000	10.113	-1.1	111	0.00
7	Chloroethane	10.000	10.848	-8.5	115	0.00
8 T	Dichlorotetrafluoroethane	10.000	10.137	-1.4	112	0.00
9 T	Propene	10.000	10.328	-3.3	108	0.00
10 T	Heptane	10.000	11.162	-11.6	116	-0.04
11 T	Trichlorofluoromethane	10.000	9.685	3.1	104	-0.01
12 T	1,1,2-Trichlorotrifluoroeth	10.000	10.154	-1.5	108	-0.01
13	Ethanol	10.000	7.041	29.6	113	0.00
14 T	Bromoethene	10.000	9.292	7.1	103	0.00
15 T	Acetone	10.000	9.736	2.6	119	-0.01
16 T	1,3-Butadiene	10.000	10.506	-5.1	116	0.00
17	tert-Butyl alcohol	10.000	9.210	7.9	99	0.00
18 T	1,1-Dichloroethene	10.000	9.856	1.4	109	0.00
19 T	Isopropyl Alcohol	10.000	9.066	9.3	105	0.00
20 T	Methylene Chloride	10.000	9.231	7.7	114	-0.01
21 T	Allyl Chloride	10.000	10.595	-6.0	113	0.00
22 T	trans-1,2-Dichloroethene	10.000	10.000	0.0	106	-0.01
23 T	Vinyl Acetate	10.000	10.649	-6.5	119	-0.01
24 T	1,1-Dichloroethane	10.000	10.326	-3.3	112	-0.02
25 T	Ethyl Acetate	10.000	11.152	-11.5	118	-0.02
26 T	Hexane	10.000	10.788	-7.9	111	-0.02
27 T	Carbon Disulfide	10.000	10.873	-8.7	111	-0.01
28 T	Methyl tert-Butyl Ether	10.000	7.595	24.1	97	-0.02
29 T	Chloroform	10.000	10.702	-7.0	115	-0.02
30 T	Cyclohexane	10.000	10.338	-3.4	107	-0.02
31 T	cis-1,2-Dichloroethene	10.000	9.857	1.4	106	-0.02
32 T	1,1,1-Trichloroethane	10.000	10.374	-3.7	107	-0.02
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	-0.03
34 T	2-Butanone	10.000	12.235	-22.3	118	-0.02
35 T	Carbon Tetrachloride	10.000	12.224	-22.2	108	-0.03
36 T	Benzene	10.000	11.639	-16.4	110	-0.02
37 T	1,2-Dichloroethane	10.000	11.375	-13.8	109	-0.02
38 T	Trichloroethene	10.000	11.295	-13.0	106	-0.03
39 T	1,2-Dichloropropane	10.000	11.659	-16.6	112	-0.03
40 T	1,4-Dioxane	10.000	10.838	-8.4	109	-0.03
41 T	Tetrahydrofuran	10.000	12.222	-22.2	111	-0.02
42 T	Bromodichloromethane	10.000	12.008	-20.1	111	-0.03
43	Methyl Methacrylate	10.000	11.021	-10.2	101	-0.03
44 T	2,2,4-Trimethylpentane	10.000	12.276	-22.8	114	-0.03
45 T	t-1,3-Dichloropropene	10.000	10.685	-6.9	92	-0.03
46 T	cis-1,3-Dichloropropene	10.000	11.184	-11.8	96	-0.04
47 T	1,1,2-Trichloroethane	10.000	12.122	-21.2	113	-0.03
48 T	Dibromochloromethane	10.000	12.400	-24.0	109	-0.03

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041977.D
 Acq On : 10 Feb 2025 08:32
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 11 01:18:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	12.611	-26.1	108	-0.02
50 T	4-Methyl-2-Pentanone	10.000	12.149	-21.5	116	-0.04
51 T	2-Hexanone	10.000	12.218	-22.2	114	-0.03
52 T	Tetrachloroethene	10.000	10.738	-7.4	107	-0.03
53 T	Toluene	10.000	11.526	-15.3	104	-0.03
54 T	1,2-Dibromoethane	10.000	11.785	-17.9	111	-0.03
55 I	Chlorobenzene-d5	10.000	10.000	0.0	89	-0.02
56	1,1,1,2-Tetrachloroethane	10.000	12.591	-25.9	116	-0.03
57 T	Chlorobenzene	10.000	12.099	-21.0	117	-0.03
58 T	Ethyl Benzene	10.000	11.805	-18.0	105	-0.02
59 T	m/p-Xylene	20.000	25.112	-25.6	114	-0.02
60 T	o-Xylene	10.000	12.558	-25.6	113	-0.02
61 T	Styrene	10.000	12.095	-21.0	102	-0.02
62	Isopropylbenzene	10.000	12.196	-22.0	112	-0.02
63 T	1,1,2,2-Tetrachloroethane	10.000	13.154	-31.5#	123	-0.02
64	n-propylbenzene	10.000	12.657	-26.6	116	-0.02
65	tert-Butylbenzene	10.000	12.359	-23.6	115	-0.02
66 T	Benzyl Chloride	10.000	11.790	-17.9	99	-0.02
67	sec-Butylbenzene	10.000	12.393	-23.9	115	-0.02
68 S	1-Bromo-4-Fluorobenzene	10.000	9.936	0.6	89	-0.02
69	p-Isopropyltoluene	10.000	12.479	-24.8	114	-0.02
70	n-Butylbenzene	10.000	12.214	-22.1	112	-0.02
71	2-Chlorotoluene	10.000	12.105	-21.1	110	-0.02
72 T	4-Ethyltoluene	10.000	12.544	-25.4	113	-0.02
73 T	1,3,5-Trimethylbenzene	10.000	12.264	-22.6	113	-0.02
74 T	1,2,4-Trimethylbenzene	10.000	12.437	-24.4	116	-0.02
75 T	1,3-Dichlorobenzene	10.000	12.270	-22.7	118	-0.02
76 T	1,4-Dichlorobenzene	10.000	12.460	-24.6	118	-0.02
77 T	1,2-Dichlorobenzene	10.000	12.406	-24.1	121	-0.02
78 T	Hexachloro-1,3-Butadiene	10.000	10.054	-0.5	104	-0.02
79 T	Naphthalene	10.000	10.729	-7.3	108	-0.02
80 T	Naphthalene,2-methyl-	10.000	6.315	36.8#	82	-0.02
81 T	1,2,4-Trichlorobenzene	10.000	9.811	1.9	102	-0.02

(#) = Out of Range

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



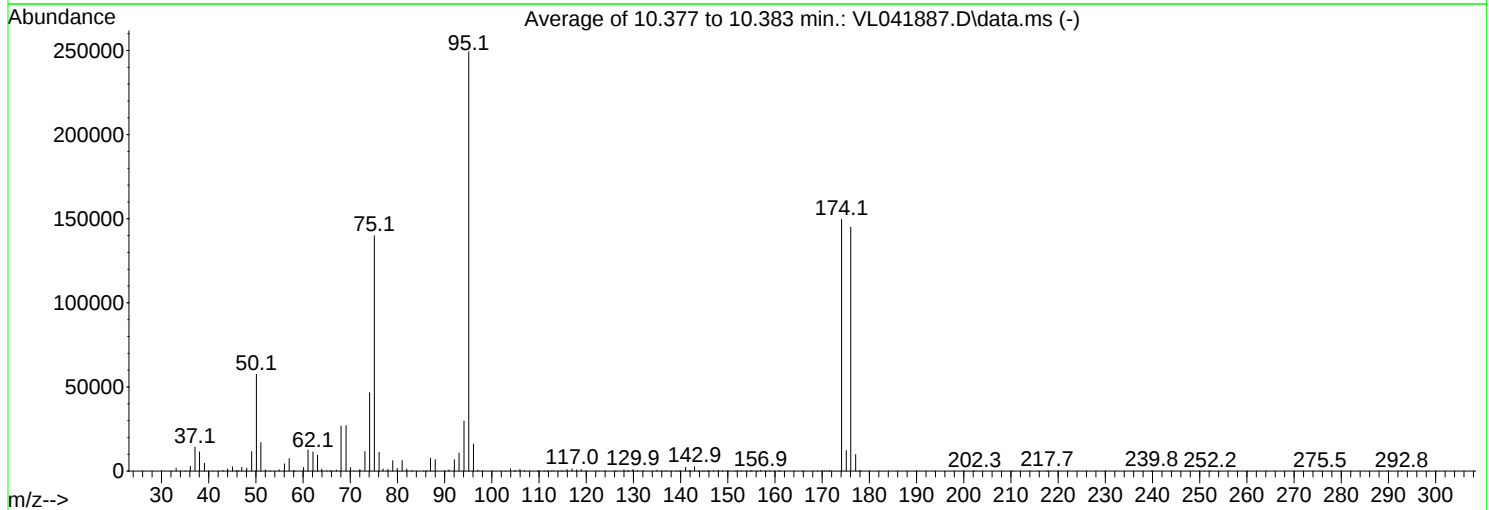
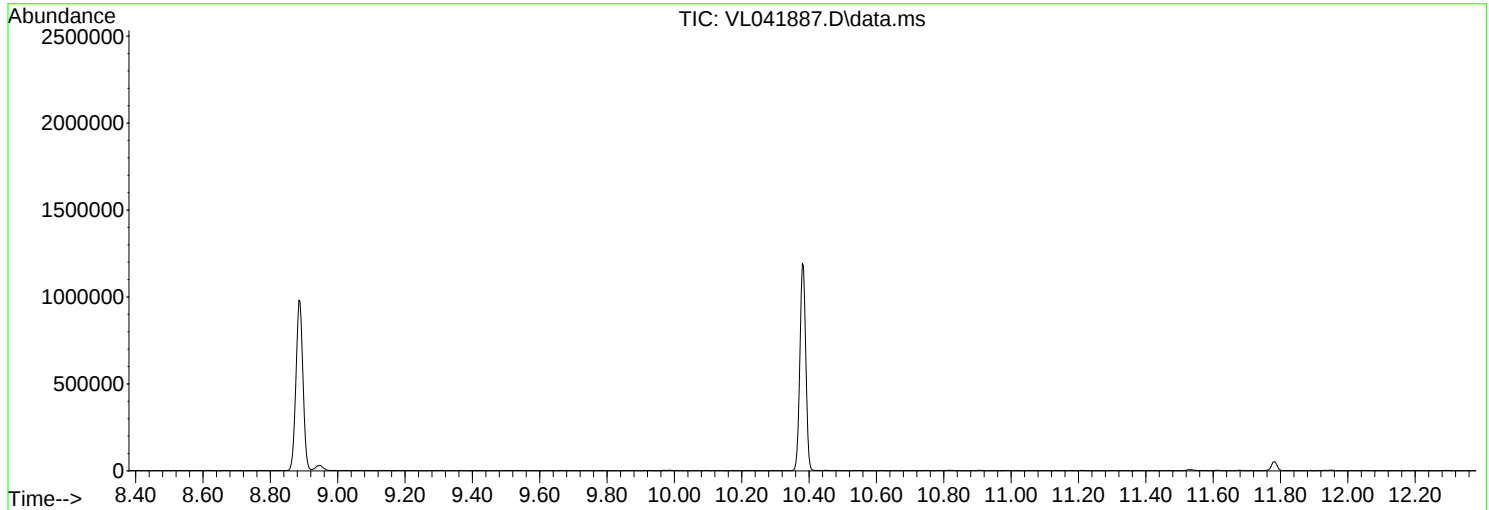
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
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\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



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

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.0	57448	PASS
75	95	30	66	56.1	139893	PASS
95	95	100	100	100.0	249280	PASS
96	95	5	9	6.5	16102	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	60.0	149632	PASS
175	174	4	9	8.2	12223	PASS
176	174	93	101	96.8	144917	PASS
177	176	5	9	6.8	9838	PASS

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1721	46.25	187	58.00	217	69.10	27064
35.00	34	47.00	2270	58.20	169	70.05	2086
36.10	2904	48.05	1800	60.10	2093	70.80	62
37.10	14256	49.10	11606	61.05	12532	71.90	478
38.05	11416	50.10	57448	62.10	11347	72.05	855
39.10	4640	51.05	16983	63.05	9441	73.10	11647
40.90	20	52.05	698	63.95	1185	74.10	46637
43.05	223	53.10	70	65.05	142	75.10	139893
44.00	1302	54.95	811	65.80	140	76.10	11160
45.05	2448	56.05	4320	67.05	599	76.95	1289
45.85	203	57.05	7492	68.05	26765	77.95	981

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
79.00	6243	93.05	10708	106.90	325	117.00	1338
79.95	1666	94.10	29779	109.70	72	117.95	731
81.00	6311	95.10	249280	110.00	50	118.95	953
81.95	1325	96.10	16102	111.10	152	122.70	24
83.05	258	97.05	586	111.80	111	123.95	57
85.55	75	98.00	64	112.60	51	126.30	40
86.10	108	102.90	20	113.05	210	128.00	751
87.00	7686	103.95	1357	114.65	88	128.75	209
88.00	6856	104.80	96	114.90	24	129.00	149
90.90	686	105.05	252	115.30	44	129.90	917
92.05	6774	105.95	966	115.90	891	130.90	280

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
132.10	22	144.00	36	152.85	252	165.90	17
135.00	547	144.70	54	154.05	188	169.00	21
136.00	45	145.00	117	154.85	333	170.10	20
136.90	224	145.80	267	155.10	178	170.45	75
139.10	30	146.00	132	156.30	48	171.00	82
139.80	185	146.95	170	156.95	484	171.55	299
141.05	2202	147.95	449	158.10	23	174.10	149632
141.85	250	148.85	204	158.95	237	175.10	12223
142.10	215	150.05	156	160.85	178	176.05	144917
142.95	2558	151.60	28	161.10	61	177.10	9838
143.80	73	152.00	94	164.20	20	177.95	205

Average of 10.377 to 10.383 min.: VL041887.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.20	123						
202.00	26						
202.30	27						
210.50	25						
217.65	77						
239.80	44						
251.00	21						
252.20	26						
275.50	23						
292.80	18						
298.50	17						

Instrument :

MSVOA_L

ClientSampleId :

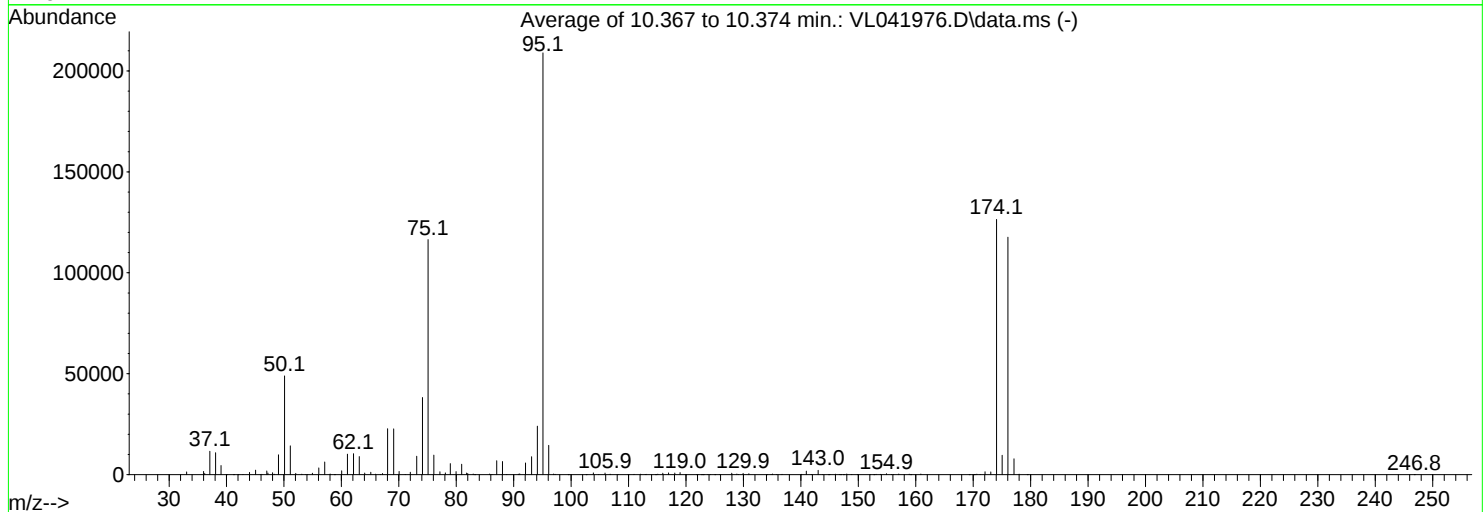
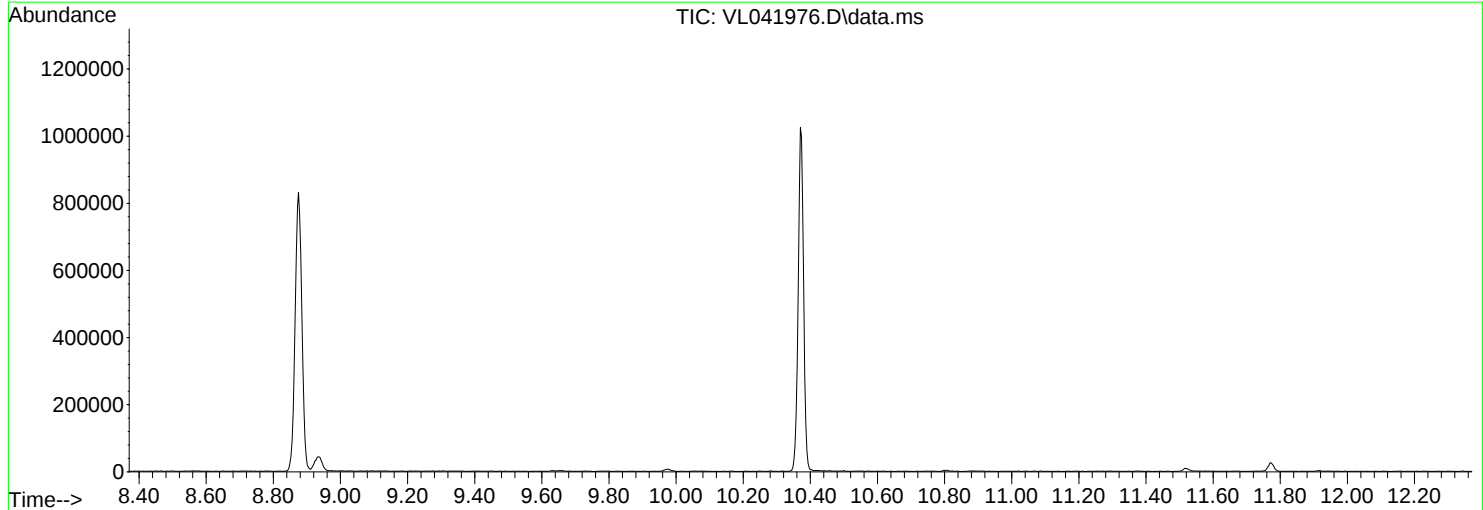
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041976.D
Acq On : 10 Feb 2025 07:49
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\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



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

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	23.4	48875	PASS
75	95	30	66	55.7	116459	PASS
95	95	100	100	100.0	208960	PASS
96	95	5	9	7.0	14527	PASS
173	174	0.00	2	1.0	1313	PASS
174	95	50	120	60.5	126461	PASS
175	174	4	9	7.6	9611	PASS
176	174	93	101	93.0	117661	PASS
177	176	5	9	6.6	7817	PASS

Average of 10.367 to 10.374 min.: VL041976.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.05	1370	45.05	2219	53.10	218	63.10	894
36.00	1571	45.90	54	53.80	68	64.05	80
36.20	560	46.15	142	54.10	81	65.10	116
37.10	11604	47.00	1849	54.95	727	65.95	25
38.10	10825	47.20	766	56.05	3348	66.80	110
39.05	4504	48.00	981	57.10	6266	67.15	570
39.95	38	48.30	276	58.05	327	68.05	22720
41.20	34	49.05	9833	58.80	46	69.10	22661
42.00	41	50.10	48875	60.05	1945	70.05	1629
42.85	125	51.10	14243	61.05	10122	71.10	61
44.00	1144	52.05	659	62.10	10390	72.00	1215

Average of 10.367 to 10.374 min.: VL041976.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.10	9120	82.95	281	94.10	24027	108.15	83
74.10	38243	83.20	26	95.10	208960	109.90	19
75.10	116459	85.80	287	96.10	14527	110.95	134
76.10	9663	86.20	57	96.95	281	112.10	259
77.15	1447	87.05	6932	97.20	175	112.90	50
78.10	868	88.05	6523	99.50	43	113.05	131
78.95	5505	88.80	51	102.60	20	114.70	20
79.95	1536	90.80	210	103.85	851	115.10	247
80.95	5128	91.05	412	104.80	97	115.95	754
81.80	762	92.05	5775	105.90	823	116.95	876
82.00	550	93.10	8879	106.80	237	118.05	791

Average of 10.367 to 10.374 min.: VL041976.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.95	1037	129.10	91	143.00	2171	152.05	48
119.90	17	129.95	643	143.80	80	152.70	36
121.90	45	130.95	470	144.80	27	153.10	142
122.70	19	134.00	21	145.05	124	153.85	131
123.00	33	134.80	123	146.00	238	154.90	467
123.80	64	135.05	288	146.70	95	155.80	109
124.20	72	135.80	94	146.90	23	156.15	80
125.00	29	136.70	190	147.40	26	157.05	317
125.90	72	140.10	185	148.00	309	158.00	55
127.95	692	140.95	1714	148.85	86	158.85	214
128.85	351	141.80	121	149.85	110	159.10	41

Average of 10.367 to 10.374 min.: VL041976.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
160.90	281	178.00	275				
169.30	20	179.40	24				
170.20	34	246.80	20				
170.65	224						
171.20	65						
172.05	1449						
173.05	1313						
174.05	126461						
175.05	9611						
176.05	117661						
177.10	7817						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	1123 & 1125 Flatbush Ave Brooklyn, NY	Date Received:	
Client Sample ID:	VL0210ABL01	SDG No.:	Q1303
Lab Sample ID:	VL0210ABL01	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
VL041978.D	1		02/10/25 09:24	VL021025

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
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
106-93-4	1,2-Dibromoethane	0.070	0.54	U	0.54	0.77	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	9.30			65 - 135	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	156000		2.781			
540-36-3	1,4-Difluorobenzene	417000		3.949			
3114-55-4	Chlorobenzene-d5	342000		8.875			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041978.D
 Acq On : 10 Feb 2025 09:24
 Operator : SY/MD
 Sample : VL0210ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABL01

Quant Time: Feb 11 01:18:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	155942	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	417063	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.875	117	341669	10.000	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.371	95	250739	9.317	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.200%

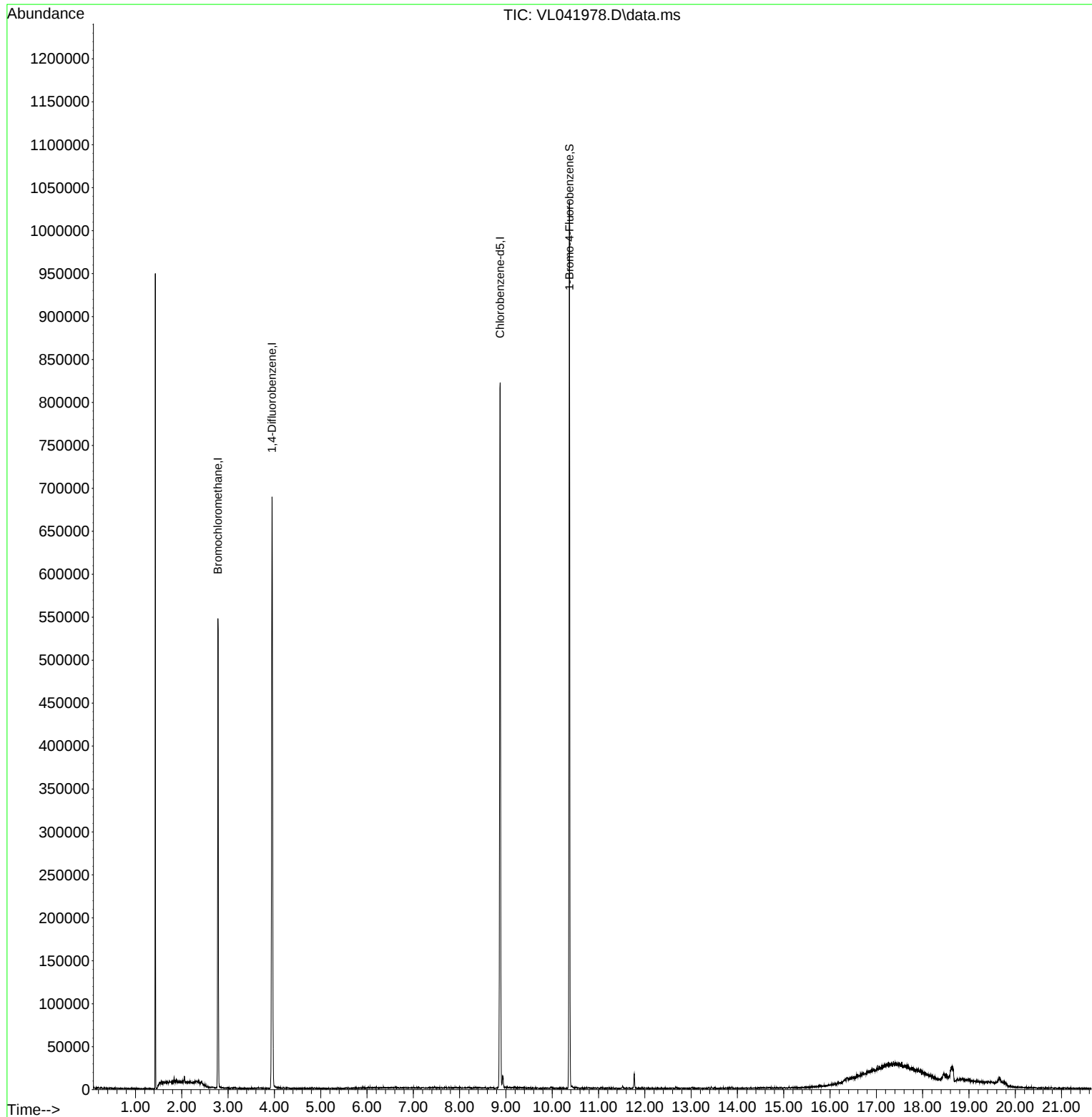
Target Compounds	Qvalue

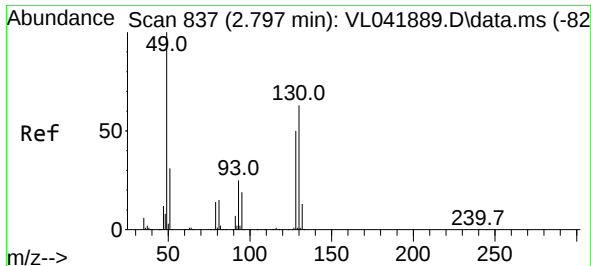
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041978.D
Acq On : 10 Feb 2025 09:24
Operator : SY/MD
Sample : VL0210ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0210ABL01

Quant Time: Feb 11 01:18:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration

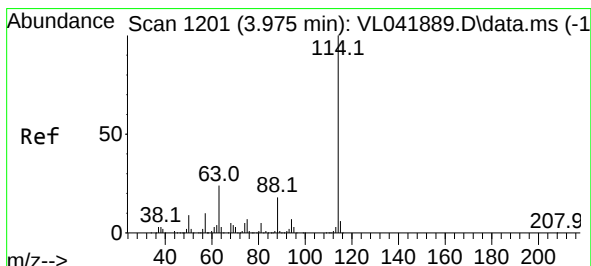
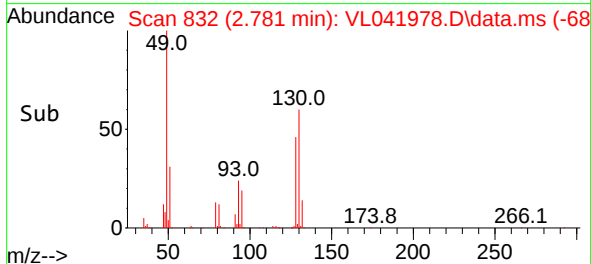
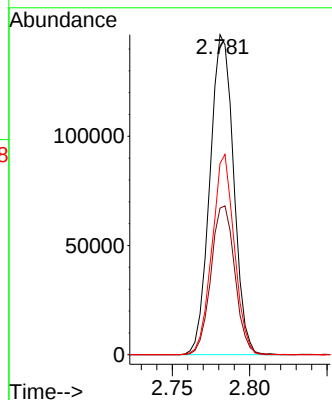
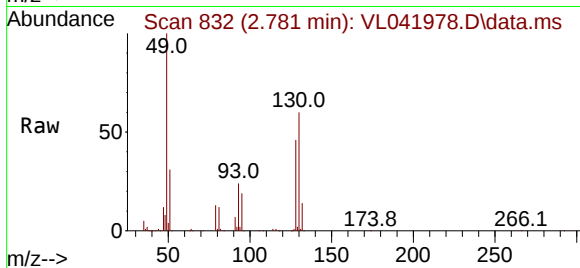




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 81
 Delta R.T. -0.016 min
 Lab File: VL041978.D
 Acq: 10 Feb 2025 09:24

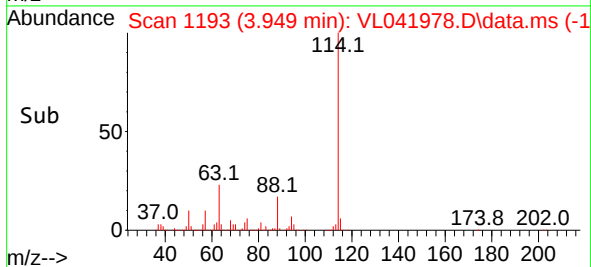
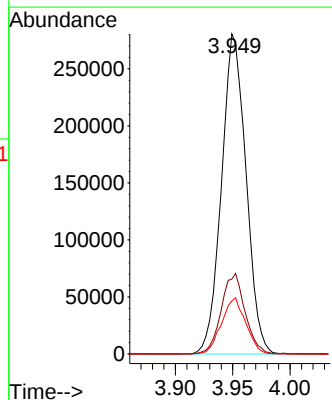
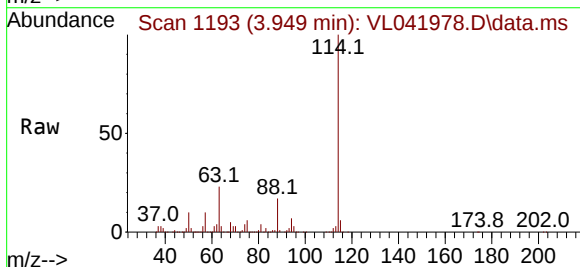
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABL01

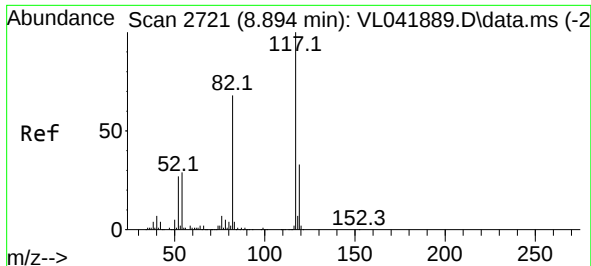
Tgt Ion: 49 Resp: 155942
 Ion Ratio Lower Upper
 49 100
 128 46.7 24.3 73.0
 130 58.9 31.1 93.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.949 min Scan# 1193
 Delta R.T. -0.026 min
 Lab File: VL041978.D
 Acq: 10 Feb 2025 09:24

Tgt Ion: 114 Resp: 417063
 Ion Ratio Lower Upper
 114 100
 63 24.5 19.8 29.6
 88 17.3 14.4 21.6

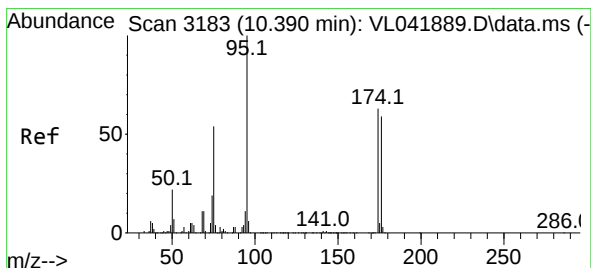
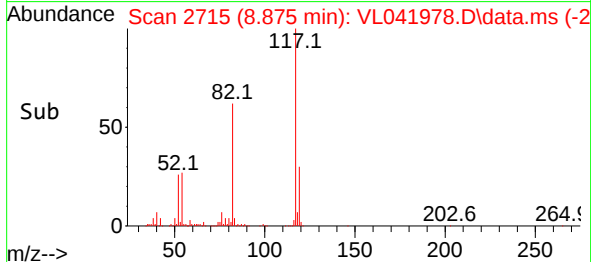
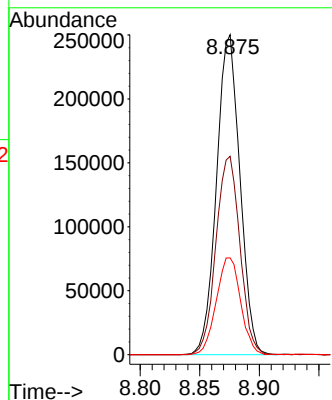
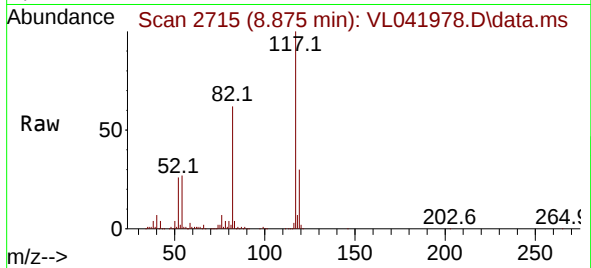




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL041978.D
Acq: 10 Feb 2025 09:24

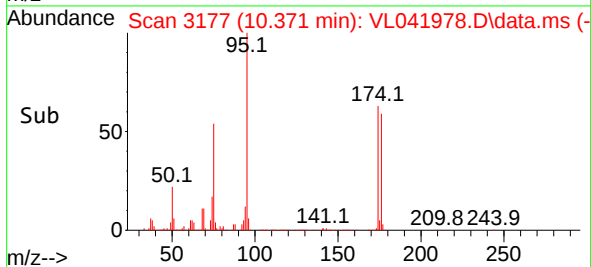
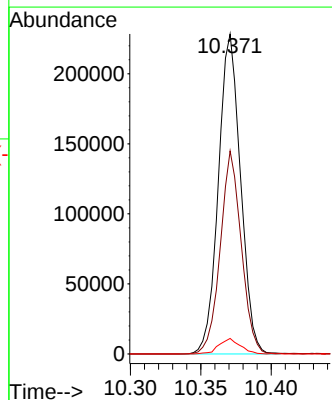
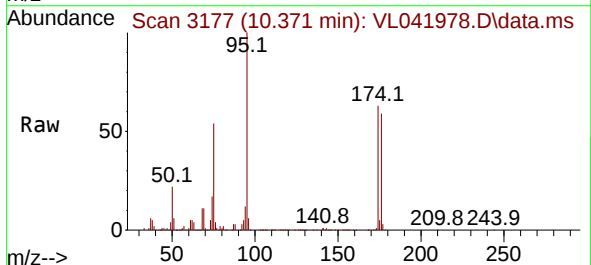
Instrument :
MSVOA_L
ClientSampleId :
VL0210ABL01

Tgt Ion:117 Resp: 341669
Ion Ratio Lower Upper
117 100
82 63.5 54.2 81.4
119 31.6 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.317 ppbv
RT: 10.371 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL041978.D
Acq: 10 Feb 2025 09:24

Tgt Ion: 95 Resp: 250739
Ion Ratio Lower Upper
95 100
174 60.2 49.0 73.4
175 4.7 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	1123 & 1125 Flatbush Ave Brooklyn, NY	Date Received:	
Client Sample ID:	VL0210ABS01	SDG No.:	Q1303
Lab Sample ID:	VL0210ABS01	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
VL041979.D	1		02/10/25 10:08	VL021025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.7	27.4		0.030	0.080	ug/m3
142-82-5	Heptane	11.5	47.1		0.45	2.05	ug/m3
75-35-4	1,1-Dichloroethene	9.50	37.7		0.56	1.98	ug/m3
110-82-7	Cyclohexane	10.6	36.5		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.1	40.0		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.4	56.7		0.050	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	12.2	57.0		0.47	2.34	ug/m3
71-43-2	Benzene	11.7	37.4		0.29	1.60	ug/m3
79-01-6	Trichloroethene	11.4	61.3		0.11	0.16	ug/m3
108-88-3	Toluene	11.6	43.7		0.41	1.88	ug/m3
106-93-4	1,2-Dibromoethane	11.8	90.7		0.54	0.77	ug/m3
127-18-4	Tetrachloroethene	10.7	72.6		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	11.8	51.3		0.52	2.17	ug/m3
179601-23-1	m/p-Xylene	24.3	106		0.91	4.34	ug/m3
95-47-6	o-Xylene	12.2	53.0		0.52	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	11.9	58.5		0.54	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	12.2	60.0		0.39	2.46	ug/m3
91-20-3	Naphthalene	10.6	55.6		0.42	0.52	ug/m3
110-54-3	Hexane	11.2	39.5		0.39	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	152000		2.78			
540-36-3	1,4-Difluorobenzene	414000		3.952			
3114-55-4	Chlorobenzene-d5	360000		8.875			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041979.D
 Acq On : 10 Feb 2025 10:08
 Operator : SY/MD
 Sample : VL0210ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABS01

Quant Time: Feb 11 01:19:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

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

Internal Standards						
1) Bromochloromethane	2.780	49	152077	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.952	114	414040	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.875	117	360498	10.000	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 272541 9.598 ppbv -0.02
 Spiked Amount 10.000 Range 65 - 135 Recovery = 96.000%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.495	85	204571	9.876	ppbv	100
3) Chlorodifluoromethane	1.473	51	238144	10.974	ppbv	98
4) Chloromethane	1.531	50	86569	11.112	ppbv	100
5) Vinyl Chloride	1.576	62	84116	10.660	ppbv	98
6) Bromomethane	1.664	94	37729	10.032	ppbv	99
7) Chloroethane	1.703	64	32459	10.572	ppbv	100
8) Dichlorotetrafluoroethane	1.550	85	184185	10.174	ppbv	97
9) Propene	1.482	41	98077	10.971	ppbv	100
10) Heptane	4.972	43	273994	11.467	ppbv	99
11) Trichlorofluoromethane	1.874	101	206694	9.592	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.136	101	172146	10.193	ppbv	98
13) Ethanol	1.719	45	4272	6.524	ppbv	98
14) Bromoethene	1.777	108	58841	9.516	ppbv	98
15) Acetone	1.832	43	175207	9.592	ppbv	99
16) 1,3-Butadiene	1.605	39	86883	10.598	ppbv	97
17) tert-Butyl alcohol	2.036	59	198158	8.815	ppbv	98
18) 1,1-Dichloroethene	2.029	96	72213	9.487	ppbv	98
19) Isopropyl Alcohol	1.884	45	98535	9.098	ppbv	91
20) Methylene Chloride	2.059	84	62784	8.698	ppbv	96
21) Allyl Chloride	2.091	41	130301	10.302	ppbv	98
22) trans-1,2-Dichloroethene	2.337	96	87917	10.234	ppbv	100
23) Vinyl Acetate	2.460	43	99099	10.945	ppbv #	95
24) 1,1-Dichloroethane	2.405	63	171646	10.330	ppbv	98
25) Ethyl Acetate	2.832	43	559898	11.367	ppbv	100
26) Hexane	2.819	57	217226	11.151	ppbv	95
27) Carbon Disulfide	2.146	76	207662	10.772	ppbv	97
28) Methyl tert-Butyl Ether	2.437	73	119227	8.007	ppbv	99
29) Chloroform	2.845	83	329549	10.702	ppbv	97
30) Cyclohexane	3.848	84	179649	10.632	ppbv	98
31) cis-1,2-Dichloroethene	2.716	61	206778	10.081	ppbv	95
32) 1,1,1-Trichloroethane	3.363	97	306280	10.394	ppbv	98
34) 2-Butanone	2.554	43	318901	12.111	ppbv	98
35) Carbon Tetrachloride	3.755	117	317170	12.195	ppbv	97
36) Benzene	3.651	78	443760	11.686	ppbv	99
37) 1,2-Dichloroethane	3.214	62	237171	11.120	ppbv	99
38) Trichloroethene	4.541	130	171308	11.368	ppbv	97
39) 1,2-Dichloropropane	4.305	63	156515	11.750	ppbv	98
40) 1,4-Dioxane	4.577	88	73021	10.855	ppbv #	95
41) Tetrahydrofuran	3.052	42	178745	12.491	ppbv	96
42) Bromodichloromethane	4.480	83	335631	11.737	ppbv	95
43) Methyl Methacrylate	4.874	69	158914	11.265	ppbv	99
44) 2,2,4-Trimethylpentane	4.632	57	749666	12.205	ppbv	99
45) t-1,3-Dichloropropene	6.405	75	144871	10.971	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041979.D
 Acq On : 10 Feb 2025 10:08
 Operator : SY/MD
 Sample : VL0210ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABS01

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

Quant Time: Feb 11 01:19:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.593	75	195860	11.297	ppbv	98
47) 1,1,2-Trichloroethane	6.570	97	172374	12.209	ppbv	96
48) Dibromochloromethane	7.380	129	265141	12.172	ppbv	100
49) Bromoform	9.477	173	222557	12.438	ppbv	99
50) 4-Methyl-2-Pentanone	5.745	43	428455	11.920	ppbv	99
51) 2-Hexanone	7.431	43	329889	11.944	ppbv #	96
52) Tetrachloroethene	8.215	164	140409	10.663	ppbv	96
53) Toluene	6.923	91	480878	11.625	ppbv	99
54) 1,2-Dibromoethane	7.645	107	229236	11.811	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.917	131	220416	12.255	ppbv	99
57) Chlorobenzene	8.917	112	393754	11.841	ppbv	95
58) Ethyl Benzene	9.347	91	662182	11.754	ppbv	98
59) m/p-Xylene	9.545	91	1098746m	24.331	ppbv	
60) o-Xylene	9.959	91	547895	12.223	ppbv	97
61) Styrene	9.865	104	239385	11.905	ppbv	98
62) Isopropylbenzene	10.535	105	820806	11.834	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.956	83	366346	12.790	ppbv	99
64) n-propylbenzene	10.985	120	216727	12.366	ppbv	97
65) tert-Butylbenzene	11.529	119	752174	11.900	ppbv	99
66) Benzyl Chloride	11.613	91	42944	10.977	ppbv	100
67) sec-Butylbenzene	11.765	105	1052687	12.095	ppbv	100
69) p-Isopropyltoluene	11.924	119	859591	11.994	ppbv	99
70) n-Butylbenzene	12.277	91	843880	11.872	ppbv	100
71) 2-Chlorotoluene	10.895	91	603809	11.769	ppbv	98
72) 4-Ethyltoluene	11.121	105	657858	12.270	ppbv	100
73) 1,3,5-Trimethylbenzene	11.199	105	561685	11.863	ppbv	95
74) 1,2,4-Trimethylbenzene	11.532	105	624557	12.180	ppbv	97
75) 1,3-Dichlorobenzene	11.603	146	363224	11.954	ppbv	99
76) 1,4-Dichlorobenzene	11.668	146	354840	11.936	ppbv	99
77) 1,2-Dichlorobenzene	11.943	146	363176	12.060	ppbv	99
78) Hexachloro-1,3-Butadiene	13.879	225	247369	10.008	ppbv	99
79) Naphthalene	13.510	128	548662	10.627	ppbv	99
80) Naphthalene,2-methyl-	14.455	142	159849	6.530	ppbv	97
81) 1,2,4-Trichlorobenzene	13.439	180	245181	9.729	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041979.D
 Acq On : 10 Feb 2025 10:08
 Operator : SY/MD
 Sample : VL0210ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABS01

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/11/2025
 Supervised By : Mahesh Dadoda 02/11/2025

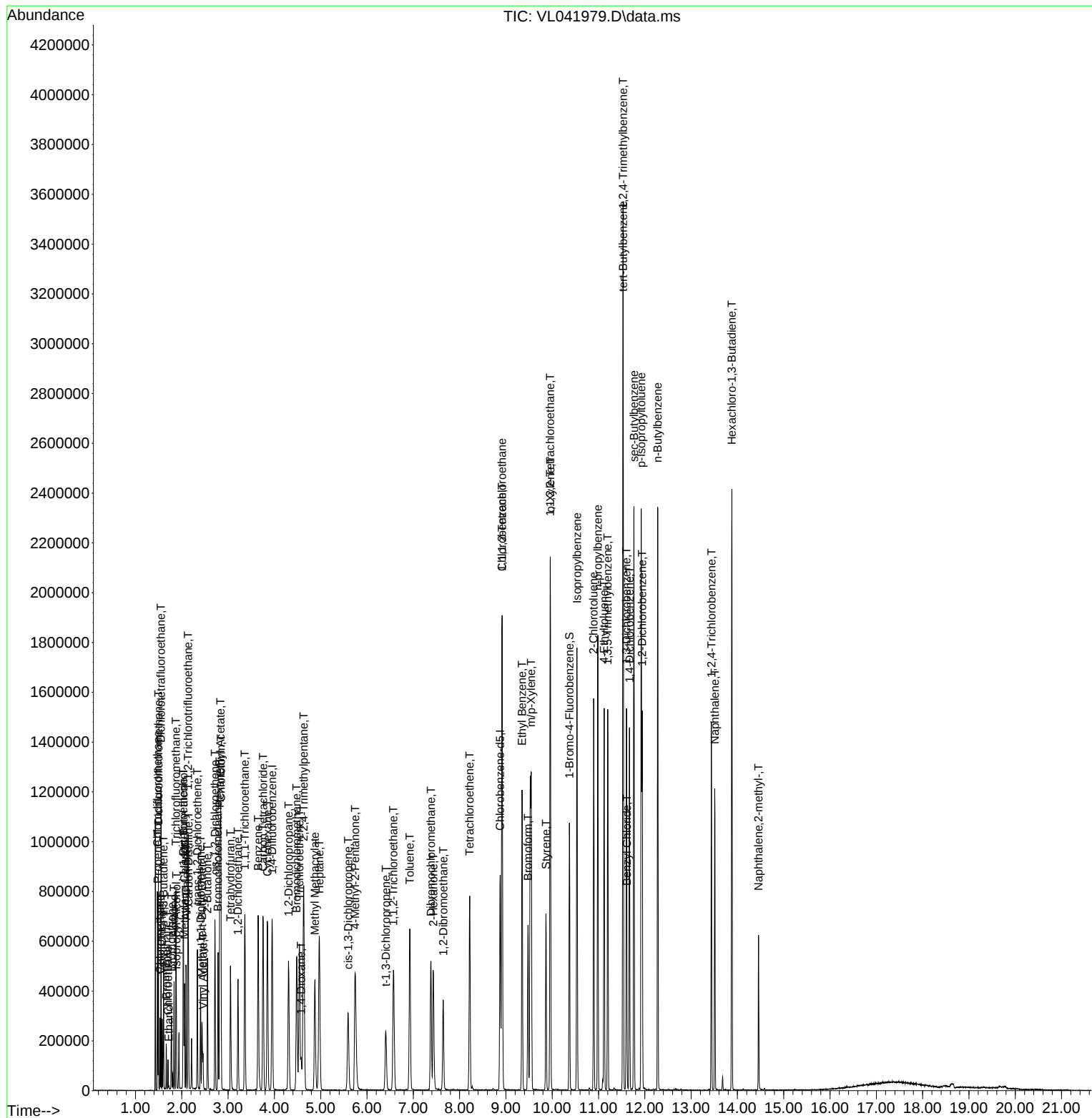
Quant Time: Feb 11 01:19:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

QLast Update : Tue Jan 14 23:15:42 2025

Response via : Initial Calibration



Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041889.D	m/p-Xylene	SAM	1/15/2025 11:01:16 AM	MMDadoda	1/15/2025 12:57:14 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	1,4-Dioxane	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC002	VL041890.D	m/p-Xylene	SAM	1/15/2025 11:01:11 AM	MMDadoda	1/15/2025 12:57:17 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,1,2-Trichloroethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,1-Dichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	1,4-Dioxane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Benzyl Chloride	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Bromodichloromethane	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	m/p-Xylene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Tetrahydrofuran	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICCC001	VL041891.D	Toluene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL041891.D	Trichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,2-Dichloropropane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	1,4-Dioxane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	4-Methyl-2-Pentanone	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Bromodichloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	cis-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Dibromochloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Ethanol	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Hexane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	m/p-Xylene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Methyl Methacrylate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	t-1,3-Dichloropropene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.5	VL041892.D	Tetrachloroethene	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL011425	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041892.D	Vinyl Acetate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	1,1,1-Trichloroethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	1,2-Dibromoethane	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Carbon Tetrachloride	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Tetrachloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.1	VL041893.D	Trichloroethene	SAM	1/15/2025 11:02:52 AM	MMDadoda	1/15/2025 12:57:48 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Tetrachloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Trichloroethene	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC0.03	VL041894.D	Vinyl Chloride	SAM	1/15/2025 11:01:26 AM	MMDadoda	1/15/2025 12:57:52 PM	Peak Integrated by Software
VSTDICC015	VL041895.D	m/p-Xylene	SAM	1/15/2025 11:01:35 AM	MMDadoda	1/15/2025 12:57:56 PM	Peak Integrated by Software
VSTDICV010	VL041896.D	m/p-Xylene	SAM	1/15/2025 11:01:30 AM	MMDadoda	1/15/2025 12:58:01 PM	Peak Integrated by Software
VSTDCCC010	VL041915.D	m/p-Xylene	SAM	1/15/2025 11:02:26 AM	MMDadoda	1/15/2025 12:59:14 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL011425

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VL021025	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041977.D	m/p-Xylene	SAM	2/11/2025 8:26:32 AM	MMDadoda	2/11/2025 2:07:21 PM	Peak Integrated by Software
VL0210ABS01	VL041979.D	m/p-Xylene	SAM	2/11/2025 8:26:37 AM	MMDadoda	2/11/2025 2:07:17 PM	Peak Integrated by Software
Q1303-01	VL041985.D	Dichlorodifluoromethane	SAM	2/11/2025 8:27:37 AM	MMDadoda	2/11/2025 2:07:05 PM	Peak Integrated by Software
Q1303-01	VL041985.D	Heptane	SAM	2/11/2025 8:27:37 AM	MMDadoda	2/11/2025 2:07:05 PM	Peak Integrated by Software
Q1303-01	VL041985.D	sec-Butylbenzene	SAM	2/11/2025 8:27:37 AM	MMDadoda	2/11/2025 2:07:05 PM	Peak Integrated by Software
Q1303-01	VL041985.D	Tetrachloroethene	SAM	2/11/2025 8:27:37 AM	MMDadoda	2/11/2025 2:07:05 PM	Peak Integrated by Software
Q1303-02	VL041987.D	Heptane	SAM	2/11/2025 8:28:42 AM	MMDadoda	2/11/2025 2:07:01 PM	Peak Integrated by Software
Q1303-02	VL041987.D	Styrene	SAM	2/11/2025 8:28:42 AM	MMDadoda	2/11/2025 2:07:01 PM	Peak Integrated by Software
Q1303-02	VL041987.D	Trichloroethene	SAM	2/11/2025 8:28:42 AM	MMDadoda	2/11/2025 2:07:01 PM	Peak Integrated by Software
Q1303-03	VL041989.D	Carbon Tetrachloride	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software
Q1303-03	VL041989.D	Heptane	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software
Q1303-03	VL041989.D	m/p-Xylene	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software
Q1303-03	VL041989.D	Propene	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL021025

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1303-03	VL041989.D	tert-Butyl alcohol	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software
Q1303-03	VL041989.D	Trichloroethene	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software
Q1303-03	VL041989.D	Trichlorofluoromethane	SAM	2/11/2025 8:27:07 AM	MMDadoda	2/11/2025 2:06:56 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	1,3-Butadiene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Ethyl Benzene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Heptane	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	m/p-Xylene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Propene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Trichloroethene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Trichlorofluoromethane	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-04	VL041991.D	Heptane	SAM	2/11/2025 8:26:57 AM	MMDadoda	2/11/2025 2:06:53 PM	Peak Integrated by Software
Q1303-04	VL041991.D	m/p-Xylene	SAM	2/11/2025 8:26:57 AM	MMDadoda	2/11/2025 2:06:53 PM	Peak Integrated by Software
Q1303-04	VL041991.D	Propene	SAM	2/11/2025 8:26:57 AM	MMDadoda	2/11/2025 2:06:53 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vI021025

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1303-04	VL041991.D	Tetrachloroethene	SAM	2/11/2025 8:26:57 AM	MMDadoda	2/11/2025 2:06:53 PM	Peak Integrated by Software
Q1303-04	VL041991.D	Toluene	SAM	2/11/2025 8:26:57 AM	MMDadoda	2/11/2025 2:06:53 PM	Peak Integrated by Software
VSTDCCC010	VL041993.D	m/p-Xylene	SAM	2/11/2025 8:26:49 AM	MMDadoda	2/11/2025 2:06:49 PM	Peak Integrated by Software

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041887.D	14 Jan 2025 07:50	SY/MD	Ok
2	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	SY/MD	Not Ok
3	VSTDICCC010	VL041889.D	14 Jan 2025 12:55	SY/MD	Ok,M
4	VSTDIC002	VL041890.D	14 Jan 2025 13:28	SY/MD	Ok,M
5	VSTDIC001	VL041891.D	14 Jan 2025 13:59	SY/MD	Ok,M
6	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30	SY/MD	Ok,M
7	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01	SY/MD	Ok,M
8	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32	SY/MD	Ok,M
9	VSTDIC015	VL041895.D	14 Jan 2025 16:05	SY/MD	Ok,M
10	VSTDICV010	VL041896.D	14 Jan 2025 17:33	SY/MD	Ok,M
11	VL0114ABL01	VL041897.D	14 Jan 2025 18:34	SY/MD	Ok
12	VL0114ABL02	VL041898.D	14 Jan 2025 19:05	SY/MD	Ok
13	VL0114ABS01	VL041899.D	14 Jan 2025 19:36	SY/MD	Ok,M
14	VIBLK	VL041900.D	14 Jan 2025 20:07	SY/MD	Ok
15	Q1073-04	VL041901.D	14 Jan 2025 20:40	SY/MD	Ok,M
16	Q1073-04DUP	VL041902.D	14 Jan 2025 21:14	SY/MD	Ok,M
17	Q1073-05	VL041903.D	14 Jan 2025 21:47	SY/MD	Ok,M
18	Q1073-06	VL041904.D	14 Jan 2025 22:21	SY/MD	Ok,M
19	Q1073-01	VL041905.D	14 Jan 2025 22:51	SY/MD	Ok,M
20	Q1073-02	VL041906.D	14 Jan 2025 23:22	SY/MD	Ok,M
21	Q1073-03	VL041907.D	14 Jan 2025 23:52	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk	AP2569				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2569				
ICV/I.BLK	AP2574,MDL,AP2572,AP2573				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	VIBLK	VL041908.D	15 Jan 2025 00:22	SY/MD	Ok
23	MDL 0.4	VL041909.D	15 Jan 2025 00:52	SY/MD	Ok,M
24	MDL 0.4	VL041910.D	15 Jan 2025 01:23	SY/MD	Ok,M
25	MDL 0.1	VL041911.D	15 Jan 2025 01:53	SY/MD	Ok,M
26	MDL 0.1	VL041912.D	15 Jan 2025 02:23	SY/MD	Ok,M
27	MDL 0.03	VL041913.D	15 Jan 2025 02:53	SY/MD	Ok,M
28	MDL 0.03	VL041914.D	15 Jan 2025 03:23	SY/MD	Ok,M
29	VSTDCCC010	VL041915.D	15 Jan 2025 08:37	SY/MD	Not Ok

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL021025

Review By	Semsettin Yesilyurt	Review On	2/11/2025 9:32:12 AM		
Supervise By	Maresh Dadoda	Supervise On	2/11/2025 2:07:45 PM		
SubDirectory	VL021025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL01425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2575			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2575			
ICV/I.BLK		AP2574			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041976.D	10 Feb 2025 07:49	SY/MD	Ok
2	VSTDCCC010	VL041977.D	10 Feb 2025 08:32	SY/MD	Ok,M
3	VL0210ABL01	VL041978.D	10 Feb 2025 09:24	SY/MD	Ok
4	VL0210ABS01	VL041979.D	10 Feb 2025 10:08	SY/MD	Ok,M
5	Q1302-01	VL041980.D	10 Feb 2025 11:02	SY/MD	Not Ok
6	Q1302-01DL	VL041981.D	10 Feb 2025 11:33	SY/MD	Not Ok
7	Q1302-01	VL041982.D	10 Feb 2025 12:04	SY/MD	Ok,M
8	Q1302-02	VL041983.D	10 Feb 2025 12:35	SY/MD	Ok,M
9	Q1302-02DL	VL041984.D	10 Feb 2025 13:06	SY/MD	Not Ok
10	Q1303-01	VL041985.D	10 Feb 2025 13:37	SY/MD	Ok,M
11	Q1303-01DL	VL041986.D	10 Feb 2025 14:08	SY/MD	Not Ok
12	Q1303-02	VL041987.D	10 Feb 2025 14:39	SY/MD	Ok,M
13	Q1303-02DL	VL041988.D	10 Feb 2025 15:10	SY/MD	Not Ok
14	Q1303-03	VL041989.D	10 Feb 2025 15:43	SY/MD	Ok,M
15	Q1303-03DUP	VL041990.D	10 Feb 2025 16:17	SY/MD	Ok,M
16	Q1303-04	VL041991.D	10 Feb 2025 16:50	SY/MD	Ok,M
17	VIBLK	VL041992.D	10 Feb 2025 17:21	SY/MD	Ok
18	VSTDCCC010	VL041993.D	10 Feb 2025 17:52	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL011425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2569
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2569
ICV/I.BLK	AP2574,MDL,AP2572,AP2573
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041887.D	14 Jan 2025 07:50		SY/MD	Ok
2	VSTDIC0.5	VSTDIC0.5	VL041888.D	14 Jan 2025 11:40	not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041889.D	14 Jan 2025 12:55		SY/MD	Ok,M
4	VSTDIC002	VSTDIC002	VL041890.D	14 Jan 2025 13:28		SY/MD	Ok,M
5	VSTDIC001	VSTDIC001	VL041891.D	14 Jan 2025 13:59		SY/MD	Ok,M
6	VSTDIC0.5	VSTDIC0.5	VL041892.D	14 Jan 2025 14:30		SY/MD	Ok,M
7	VSTDIC0.1	VSTDIC0.1	VL041893.D	14 Jan 2025 15:01		SY/MD	Ok,M
8	VSTDIC0.03	VSTDIC0.03	VL041894.D	14 Jan 2025 15:32		SY/MD	Ok,M
9	VSTDIC015	VSTDIC015	VL041895.D	14 Jan 2025 16:05		SY/MD	Ok,M
10	VSTDICV010	ICVVL011425	VL041896.D	14 Jan 2025 17:33		SY/MD	Ok,M
11	VL0114ABL01	VL0114ABL01	VL041897.D	14 Jan 2025 18:34		SY/MD	Ok
12	VL0114ABL02	VL0114ABL02	VL041898.D	14 Jan 2025 19:05		SY/MD	Ok
13	VL0114ABS01	VL0114ABS01	VL041899.D	14 Jan 2025 19:36		SY/MD	Ok,M
14	VIBLK	VIBLK	VL041900.D	14 Jan 2025 20:07		SY/MD	Ok
15	Q1073-04	IA1	VL041901.D	14 Jan 2025 20:40		SY/MD	Ok,M
16	Q1073-04DUP	IA1DUP	VL041902.D	14 Jan 2025 21:14		SY/MD	Ok,M
17	Q1073-05	IA2	VL041903.D	14 Jan 2025 21:47		SY/MD	Ok,M
18	Q1073-06	IA3	VL041904.D	14 Jan 2025 22:21		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

Review By	Maresh Dadoda	Review On	1/15/2025 12:59:33 PM
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL011425AIR.M
STD. NAME	STD REF.#		
Tune/Reschk	AP2569		
Initial Calibration Stds	AP2571,AP2572,AP2573		
CCC	AP2571		
Internal Standard/PEM	AP2569		
ICV/I.BLK	AP2574,MDL,AP2572,AP2573		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	Q1073-01	SV1	VL041905.D	14 Jan 2025 22:51		SY/MD	Ok,M
20	Q1073-02	SV2	VL041906.D	14 Jan 2025 23:22		SY/MD	Ok,M
21	Q1073-03	SV3	VL041907.D	14 Jan 2025 23:52		SY/MD	Ok,M
22	VIBLK	VIBLK	VL041908.D	15 Jan 2025 00:22		SY/MD	Ok
23	MDL 0.4	MDL 0.4	VL041909.D	15 Jan 2025 00:52		SY/MD	Ok,M
24	MDL 0.4	MDL 0.4	VL041910.D	15 Jan 2025 01:23		SY/MD	Ok,M
25	MDL 0.1	MDL 0.1	VL041911.D	15 Jan 2025 01:53		SY/MD	Ok,M
26	MDL 0.1	MDL 0.1	VL041912.D	15 Jan 2025 02:23		SY/MD	Ok,M
27	MDL 0.03	MDL 0.03	VL041913.D	15 Jan 2025 02:53		SY/MD	Ok,M
28	MDL 0.03	MDL 0.03	VL041914.D	15 Jan 2025 03:23		SY/MD	Ok,M
29	VSTDCCC010	VSTDCCC010EC	VL041915.D	15 Jan 2025 08:37	out of tune	SY/MD	Not Ok

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL021025

Review By	Semsettin Yesilyurt	Review On	2/11/2025 9:32:12 AM
Supervise By	Maresh Dadoda	Supervise On	2/11/2025 2:07:45 PM
SubDirectory	VL021025	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL01425AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2575
Initial Calibration Stds	AP2571,AP2572,AP2573
CCC	AP2571
Internal Standard/PEM	AP2575
ICV/I.BLK	AP2574
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041976.D	10 Feb 2025 07:49		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041977.D	10 Feb 2025 08:32		SY/MD	Ok,M
3	VL0210ABL01	VL0210ABL01	VL041978.D	10 Feb 2025 09:24		SY/MD	Ok
4	VL0210ABS01	VL0210ABS01	VL041979.D	10 Feb 2025 10:08		SY/MD	Ok,M
5	Q1302-01	SV1	VL041980.D	10 Feb 2025 11:02	Run @ Lower Dilution	SY/MD	Not Ok
6	Q1302-01DL	SV1DL	VL041981.D	10 Feb 2025 11:33	Not Required	SY/MD	Not Ok
7	Q1302-01	SV1	VL041982.D	10 Feb 2025 12:04		SY/MD	Ok,M
8	Q1302-02	SV2	VL041983.D	10 Feb 2025 12:35		SY/MD	Ok,M
9	Q1302-02DL	SV2DL	VL041984.D	10 Feb 2025 13:06	Not Required	SY/MD	Not Ok
10	Q1303-01	SV1	VL041985.D	10 Feb 2025 13:37		SY/MD	Ok,M
11	Q1303-01DL	SV1DL	VL041986.D	10 Feb 2025 14:08	Not Required	SY/MD	Not Ok
12	Q1303-02	SV2	VL041987.D	10 Feb 2025 14:39		SY/MD	Ok,M
13	Q1303-02DL	SV2DL	VL041988.D	10 Feb 2025 15:10	Not Required	SY/MD	Not Ok
14	Q1303-03	IA1	VL041989.D	10 Feb 2025 15:43		SY/MD	Ok,M
15	Q1303-03DUP	IA1DUP	VL041990.D	10 Feb 2025 16:17		SY/MD	Ok,M
16	Q1303-04	IA2	VL041991.D	10 Feb 2025 16:50		SY/MD	Ok,M
17	VIBLK	VIBLK	VL041992.D	10 Feb 2025 17:21		SY/MD	Ok
18	VSTDCCC010	VSTDCCC010EC	VL041993.D	10 Feb 2025 17:52		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL021025

Review By	Semsettin Yesilyurt	Review On	2/11/2025 9:32:12 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/11/2025 2:07:45 PM		
SubDirectory	VL021025	HP Acquire Method	TO15AIR.M	HP Processing Method	VL01425AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2575				
Initial Calibration Stds	AP2571,AP2572,AP2573				
CCC	AP2571				
Internal Standard/PEM	AP2575				
ICV/I.BLK	AP2574				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration

Client Contact Information		Bottle Order ID : B2501045		Courier : Frank Galdun		1 of 4 COCs																					
Client ID : GFE101	Project ID : 21-36		Project Manager : FRANK GALDUN		Sampler Name(s) : FRANK GALDUN		Analysis																				
Customer Name : GFE LLC	Phone Number : 646-542-3465		Fax Number : 973-334-1692		Site Details: 1123 & 1125 Flamingo Ave BROOKLYN, NY		Matrix																				
Address : 58 Nokomis Ave	City : Lake Hawatha		State : NJ		Zip Code : 07034																						
Country :		Analysis Turnaround Time : 5 DAY		Standard : 10 BUSINESS DAYS		OR																					
Rush (Specify): 5 Days		Data Package Type : RESULTS ONLY		EDD Type : PDF																							
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In ("Hg) (Start)	Can Vacuum In ("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/mln)	Can Cert ID														
501	4/24/21	12:21	04:30	5	5	69	69	-30	-5.1	10616	10271	6 L	50	VL041615.D	1	1	1	1									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																									
Start																											
Stop																											
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																									
Start																											
Stop																											
GC/MS Analyst Signature (TO-15) Submittal of this COC indicates approval of the analysis based on existing conditions. PLEASE ONLY THOSE ANALYSTS ON THE ATTACHED LIST. Please follow the instructions on the back of this COC.																											
Special Instructions/QC Requirements & Comments :																											
Suspected Contamination: High Medium Low																											
Sampling site (State): NJ																											
Quick Connector required : NJ																											
Canisters Shipped by: 3/23/21 Date/Time: 01/28/21 Canisters Received by: 3/23/21 Date/Time: 25/25/20																											
Samples Relinquished by: 3/23/21 Date/Time: 24/5/21 Received by: 3/23/21 Date/Time: 25/25/20																											
Relinquished by: 3/23/21 Date/Time: 24/5/21 Received by: 3/23/21 Date/Time: 25/25/20																											

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

[illegible]

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

B2501045 - 4

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

Client Contact Information		Bottle Order ID : B2501045		Courier : F. GARDUN		Analysis		Matrix																
Client ID : GFEI01	Project ID : 21-03-0101	Project Manager : FRANK GARDUN		Sampler Name(s) : FRANK GARDUN																				
Customer Name : GFE LLC	Phone Number : 646-542-3465		Fax Number : 973-334-1692		AIR ANALYSIS CHAIN-OF-CUSTODY																			
Address : 58 Nokomis Ave	City : Lake Hiawatha		State : NJ		Batch Certified																			
Zip Code : 07034	Standard : 10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30		OR		Data Package Type : Results Only																			
Country : USA	Rush (Specify) : 5 Days		EDD Type : PDF																					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor Ambient Air	Soil Gas									
IT-2	4/12/25	10:28	12:18	30	5.5	65	65	-30	-5.9	10226	10269	6 L	50	VL041615.D	TO-15									
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
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Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																						
Start																								
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GC/MS Analyst Signature (TO-15) Submital of this COC indicates approval of the analysis based on existing conditions. REFLECT ONLY TO THE ANALYSTS ON THE ATTACHED LIST Please follow the instructions on the back of this COC.																								
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low Sampling site (State): Low Quick Connector required : N																								
Canisters Shipped by: 398		Date/Time: 4/12/25		Canisters Received by: 25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25										
Samples Relinquished by: 398		Date/Time: 4/12/25		Received by: 25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25										
Relinquished by: 398		Date/Time: 4/12/25		Received by: 25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25		Date/Time: 4/12/25										

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

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

~~NAME~~

Title: Sample Custodian

Field Sample Seal No. Q1303

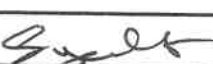
Date Broken 2/5/2025

Military Time Seal Broken: 12:00:00

Case No.: 1123 & 1125 Flatbush Ave

Analytical Parameter/Fraction WOCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1303-01	SV1		
Q1303-02	SV2		
Q1303-03	IA1		
Q1303-04	IA2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2/5	1350	Signature 	Signature 	
		Printed Name <u>FORSE N.</u>	Printed Name <u>Forse N. J. Case</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

AIR SAMPLE PRESSURE & DILUTION LOGBOOKAnalyst Signature: [Signature]Supervisor Signature: [Signature]

METHOD: TO-15

Pressure Gauge ID: 0511064

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
01/15/24	Q1090-01	10599	11.4	-6.7				sy
	Q1090-02	10053	11.4	-6.7				↓
	Q1090-03	10598	11.6	-6.3				
	Q1090-04	10297	11.6	-6.3				↓
✓	Q1090-05	10154	12.8	-3.9				sy
01/20/25	Q1138-01	10607	11.8	-5.9				sy
↓	Q1138-02	10323	13.4	-2.7				sy
1/29/25	Q1222-01	10332	13.5	-2.4				↓
↓	Q1222-02	10281	13.4	-2.7				↓
↓	Q1222-03	10595	12.6	-4.3				→
1/31/25	Q1256-01	10592	12.8	-3.9				↓
↓	Q1256-02	10198	12.5	-4.5				↓
2/05/25	Q1302-01	10331	12.5	-4.5				sy
	Q1302-02	10283	12.0	-5.5				sy
	Q1303-01	10271	12.2	-5.1				↓
	Q1303-02	10285	11.4	-6.7				↓
	Q1303-03	10275	12.5	-4.5				↓
✓	Q1303-04	10269	11.8	-5.9				↓

Process Report

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

Order ID : Q1303

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
02/05/2025	B2501045	Q1303-02	-6.7	10285	6 L	10502		C2409003	VL041615.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
02/05/2025	B2501045	Q1303-03	-4.5	10275	6 L	10185		C2409003	VL041615.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
02/05/2025	B2501045	Q1303-01	-5.1	10271	6 L	10616		C2409003	VL041615.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
02/05/2025	B2501045	Q1303-04	-5.9	10269	6 L	10226		C2409003	VL041615.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D

CHEMTECH

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

Client Sample ID #

Client Name

Project Name

Date

Analysis

Comments

CHEMTECH'S SAMPLE ID

Date Received

Storage Location: VOA Lab
Sample: Q1303-02
Cust #: SV2

CHEMTECH

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

Client Sample ID #

Client Name

Project Name

Date

Analysis

Comments

CHEMTECH'S SAMPLE ID

Date Received

Storage Location: VOA Lab
Sample: Q1303-01
Cust #: SV1

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

CHEMTECH'S SAMPLE

Date Received:

Storage Location: VOA Lab

Sample: Q1303-04

Cust #: IA2

CHEMTECH

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

Client Sample ID #:

Client Name:

Project Name:

Date:

Analysis:

Comments:

CHEMTECH'S SAMPLE ID:

Date Received:

Storage Location: VOA Lab

Sample: Q1303-03

Cust #: IA1

