



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2501032				Courier : F GALDUN				1 of 3 COCs								
Client ID : GFEL01 Project ID : 21-35 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				Indoor/Ambient Air Soil Gas								
				Phone Number : 646-542-3465																
				Fax Number : 973-334-1692																
				Site Details: 2440 JEROME AVE. BRONX, NY																
Analysis Turnaround Time 5 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY												
Rush (Specify): 5 Days				EDD Type : PDF																
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15					
SVI	1/28/25	10:45	12:45	14	2	69	69	-30	-2.4	10707	10332	6 L	50	VL041614.D	1					
Temperature (Fahrenheit) Ambient Maximum Minimum Start Stop										GC/MS Analyst Signature (TO-15) Sub										
Pressure (Inches of Hg) Ambient Maximum Minimum Start Stop										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.										
Special Instructions/QC Requirements & Comments :																				
Suspected Contamination: High Medium Low PID Readings: 1, 2																				
Sampling site (State):																				
Quick Connector required : No																				
Canisters Shipped by: Sam				Date/Time: 1/23/25				Canisters Received by: AS				Date/Time: 1/28/25 1122				B2501032 - 2				
Samples Relinquished by: FRANK				Date/Time: 1/28/25				Received by:				Date/Time:								
Relinquished by:				Date/Time:				Received by:				Date/Time:								

Client Contact Information				Bottle Order ID : B2501032				Courier : F. GALDUN				<u>2</u> of <u>3</u> COCs																			
Client ID : GFEL01 Project ID : 21-30 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				Indoor Ambient Air Soil Gas																			
				Phone Number : 646-542-3465																											
				Fax Number : 973-334-1692																											
				Site Details: 2440 Jerome Ave Bronx, 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	0-15																
TA1	1/29/25	10:40	12:40	OVER 30	S	65	65	-30	-2.7	10613	10281	6 L	50	VL041614.D	1			1													
Temperature (Fahrenheit) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Pressure (Inches of Hg) <table border="1"> <tr> <td></td> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.									
	Ambient	Maximum	Minimum																												
Start																															
Stop																															
Special Instructions/QC Requirements & Comments :																															
Suspected Contamination: High Medium Low PID Readings: 0.0																															
Sampling site (State):																															
Quick Connector required : No																															
Canisters Shipped by: Sam				Date/Time: 01/23/25				Canisters Received by: 				Date/Time: 1/29/25 1122				B2501032 - 1															
Samples Relinquished by: Frank				Date/Time: 1/29/25				Received by:				Date/Time:																			
Relinquished by:				Date/Time:				Received by:				Date/Time:																			

Client Contact Information				Bottle Order ID : B2501032				Courier : FGALDUN				3 of 3 COCs						
Client ID : GFEL01 Project ID : 21-36 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				TO-15 Indoor/Ambient Air Soil Gas						
				Phone Number : 646-542-3465														
				Fax Number : 973-334-1692														
				Site Details: 2440 Jerome Ave Bronx, 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				
OA1	1/29/25	10:09	12:09	30	4	/	/	-30	-4.3	10648	10595	6 L	50	VL041544.D	1		1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]								
		Ambient	Maximum	Minimum														
Start		38																
Stop		41																
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.								
		Ambient	Maximum	Minimum														
Start																		
Stop																		
Special Instructions/QC Requirements & Comments :																		
Suspected Contamination: High Medium Low PID Readings: 0.0																		
Sampling site (State):																		
Quick Connector required : NO																		
Canisters Shipped by: Sam				Date/Time: 01/23/25				Canisters Received by: [Signature]				Date/Time: 1/29/25 1822						
Samples Relinquished by: FRANK				Date/Time: 1/29/25				Received by:				Date/Time:						
Relinquished by:				Date/Time:				Received by:				Date/Time:						



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

Instructions: Use 1 form for each 20 samples of aliquot

Location: 284 Sheffield Street, Mountainside, NJ 7092

Title: Sample Custodian

Date Broken: 1/29/2025

Military Time Seal Broken: 11:22:00

[illegible]

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: Q1222
Client: GFE LLC
Contact: Frank Galdun

OrderDate: 1/29/2025 2:13:00 PM
Project: 2440 Jerome Ave, Bronx NY
Location: Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1222-01	SV1	Air	VOCMS Group3	TO-15	01/28/25		02/03/25	01/29/25
Q1222-02	IA1	Air	VOCMS Group3	TO-15	01/28/25		02/03/25	01/29/25
Q1222-03	OA1	Air	VOCMS Group3	TO-15	01/28/25		02/03/25	01/29/25

Hit Summary Sheet
SW-846

SDG No.: Q1222

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1222-01	SV1	Air	Trichloroethene	0.75		0.38	0.64	ug/m3
Q1222-01	SV1	Air	Tetrachloroethene	63.1		0.41	0.81	ug/m3
			Total Voc :	63.8				
			Total Concentration:	63.8				
Client ID:	IA1							
Q1222-02	IA1	Air	Tetrachloroethene	0.54		0.14	0.20	ug/m3
			Total Voc :	0.54				
			Total Concentration:	0.54				



QC SUMMARY

Surrogate Summary

SDG No.: Q1222

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1222-01	SV1	1-Bromo-4-Fluorobenzene	10	9.81	98	65	135
Q1222-02	IA1	1-Bromo-4-Fluorobenzene	10	9.95	100	65	135
Q1222-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.72	97	65	135
Q1222-03	OA1	1-Bromo-4-Fluorobenzene	10	9.57	96	65	135
VL0203ABL02	VL0203ABL02	1-Bromo-4-Fluorobenzene	10	9.58	96	65	135
VL0203ABS01	VL0203ABS01	1-Bromo-4-Fluorobenzene	10	9.92	99	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1222

Client: GFE LLC

Analytical Method: SWTO-15

Datafile : VL041961.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0203ABS01	Vinyl Chloride	10	9.80	ppbv	98			70	130	
	1,1-Dichloroethene	10	9.20	ppbv	92			70	130	
	cis-1,2-Dichloroethene	10	9.90	ppbv	99			70	130	
	1,1,1-Trichloroethane	10	10.3	ppbv	103			70	130	
	Trichloroethene	10	11.0	ppbv	110			70	130	
	Tetrachloroethene	10	10.2	ppbv	102			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1222-02DUP	Q1256-02
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL041968.D	VL041970.D
Anal Date & Time :	02/03/2025 17:08	02/03/2025 18:15

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	0.08	0	200 *
Trichloroethene	0	0	0
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1222

SAS No.: Q1222 SDG NO.: Q1222

Lab File ID: VL041968.D

Lab Sample ID: Q1222-02DUP

Date Analyzed: 02/03/2025

Time Analyzed: 17:08

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	Q1222-02DUP	VL041968.D	02/03/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0203ABL02

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1222

SAS No.: Q1222 SDG NO.: Q1222

Lab File ID: VL041960.D

Lab Sample ID: VL0203ABL02

Date Analyzed: 02/03/2025

Time Analyzed: 12:05

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
VL0203ABS01	VL0203ABS01	VL041961.D	02/03/2025
SV1	Q1222-01	VL041962.D	02/03/2025
IA1	Q1222-02	VL041967.D	02/03/2025
OA1	Q1222-03	VL041969.D	02/03/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1222 SAS No.: Q1222 SDG NO.: Q1222
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.: Q1222 SAS No.: Q1222 SDG NO.: Q1222
Lab File ID: VL041957.D BFB Injection Date: 02/03/2025
Instrument ID: MSVOA_L BFB Injection Time: 09:47
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	54.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	58.4
175	4.0 - 9.0% of mass 174	4.5 (7.7) 1
176	93.0 - 101.0% of mass 174	57.2 (98) 1
177	5.0 - 9.0% of mass 176	3.8 (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	VL041958.D	02/03/2025	10:48
VL0203ABL02	VL0203ABL02	VL041960.D	02/03/2025	12:05
VL0203ABS01	VL0203ABS01	VL041961.D	02/03/2025	12:57
SV1	Q1222-01	VL041962.D	02/03/2025	13:57
IA1	Q1222-02	VL041967.D	02/03/2025	16:35
IA1DUP	Q1222-02DUP	VL041968.D	02/03/2025	17:08
OA1	Q1222-03	VL041969.D	02/03/2025	17:41

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1222 SAS No.: Q1222 SDG NO.: Q1222
 Lab File ID: VL041958.D Date Analyzed: 02/03/2025
 Instrument ID: MSVOA_L Time Analyzed: 10:48
 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	157470	2.79	429487	3.96	371333	8.89
UPPER LIMIT	220458	3.12	601282	4.29	519866	9.22
LOWER LIMIT	94482	2.46	257692	3.63	222800	8.56
EPA SAMPLE NO.						
SV1	159297	2.79	441984	3.97	404852	8.89
IA1	150093	2.79	411838	3.97	358723	8.89
IA1DUP	151310	2.80	428310	3.98	371013	8.89
OA1	156518	2.80	426360	3.98	359092	8.90
VL0203ABL02	151198	2.79	407814	3.97	347345	8.89
VL0203ABS01	152847	2.79	418895	3.97	367437	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:	01/28/25
Project:	2440 Jerome Ave, Bronx NY	Date Received:	01/29/25
Client Sample ID:	SV1	SDG No.:	Q1222
Lab Sample ID:	Q1222-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041962.D	4		02/03/25 13:57	VL020325

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
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	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
79-01-6	Trichloroethene	0.14	0.75		0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	9.30	63.1		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	159000			2.793		
540-36-3	1,4-Difluorobenzene	442000			3.968		
3114-55-4	Chlorobenzene-d5	405000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041962.D
 Acq On : 03 Feb 2025 13:57
 Operator : SY/MD
 Sample : Q1222-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:35:35 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	159297	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	441984	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	404852	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	312689	9.806	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	2951	0.136	ppbv #	79
4) Chloromethane	1.534	50	1179	0.144	ppbv	96
9) Propene	1.486	41	30351	3.241	ppbv	89
10) Heptane	4.985	43	12032m	0.481	ppbv	
13) Ethanol	1.725	45	107420	156.617	ppbv	87
15) Acetone	1.839	43	39507	2.065	ppbv	99
19) Isopropyl Alcohol	1.890	45	108933	9.602	ppbv #	34
20) Methylene Chloride	2.065	84	11774	1.557	ppbv #	78
26) Hexane	2.832	57	67384	3.302	ppbv #	39
27) Carbon Disulfide	2.153	76	21096	1.045	ppbv #	1
29) Chloroform	2.855	83	3627	0.112	ppbv #	83
30) Cyclohexane	3.861	84	2131m	0.120	ppbv	
34) 2-Butanone	2.570	43	8793	0.313	ppbv	94
36) Benzene	3.667	78	8790	0.217	ppbv #	95
38) Trichloroethene	4.561	130	542m	0.034	ppbv	
41) Tetrahydrofuran	3.078	42	2353m	0.154	ppbv	
52) Tetrachloroethene	8.234	164	32706	2.327	ppbv	93
53) Toluene	6.949	91	14795	0.335	ppbv	94
58) Ethyl Benzene	9.364	91	10216	0.161	ppbv	89
59) m/p-Xylene	9.532	91	18053m	0.356	ppbv	
60) o-Xylene	9.969	91	11076m	0.220	ppbv	
62) Isopropylbenzene	10.545	105	14191	0.182	ppbv #	87
67) sec-Butylbenzene	11.775	105	10079m	0.103	ppbv	
73) 1,3,5-Trimethylbenzene	11.209	105	9214	0.173	ppbv #	85
74) 1,2,4-Trimethylbenzene	11.542	105	14454	0.251	ppbv #	49
78) Hexachloro-1,3-Butadiene	13.646	225	21171m	0.763	ppbv	
79) Naphthalene	13.118	128	98033m	1.691	ppbv	
80) Naphthalene,2-methyl-	14.309	142	37363m	1.359	ppbv	
81) 1,2,4-Trichlorobenzene	13.047	180	51438m	1.818	ppbv	

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

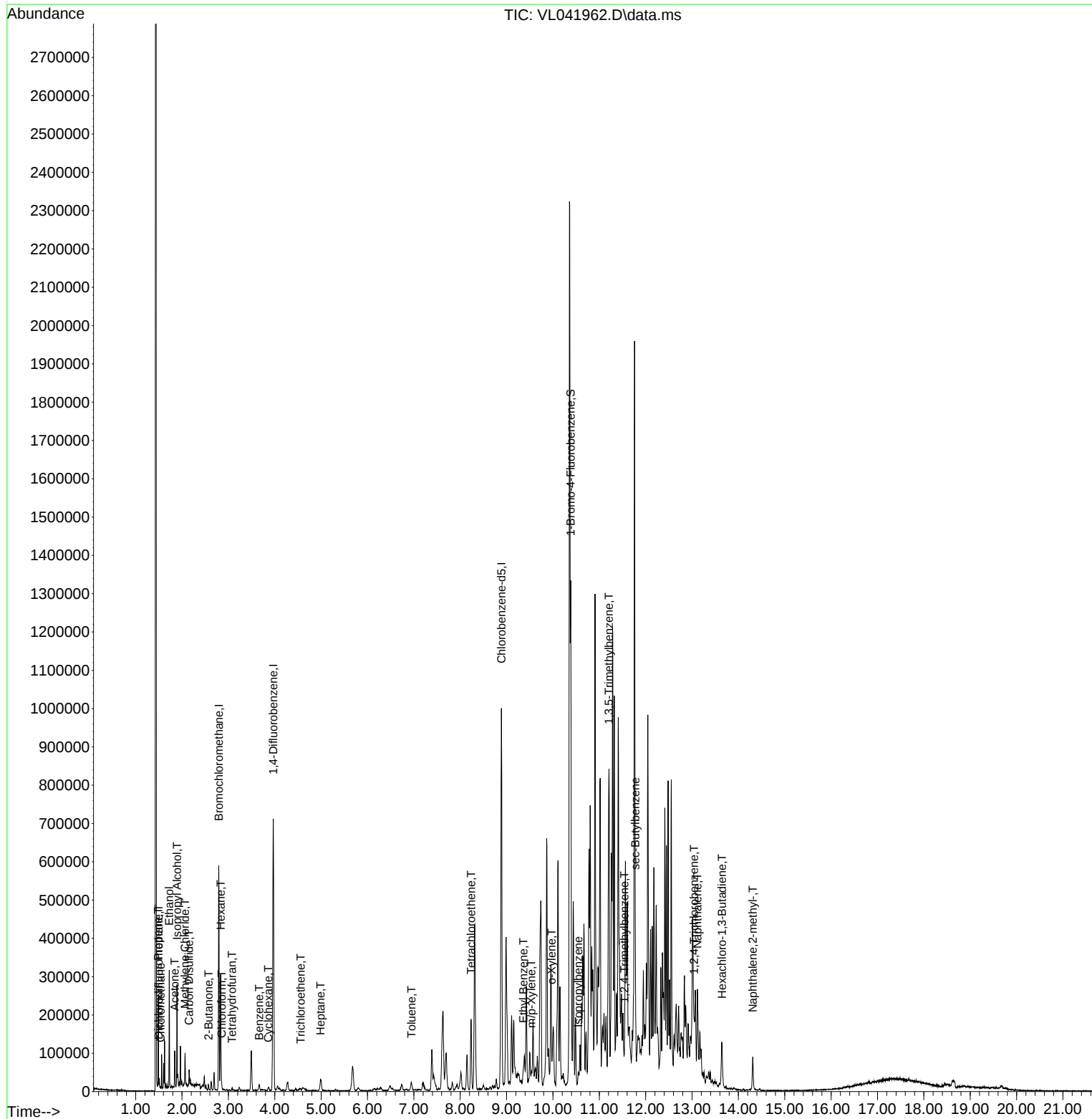
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041962.D
Acq On : 03 Feb 2025 13:57
Operator : SY/MD
Sample : Q1222-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

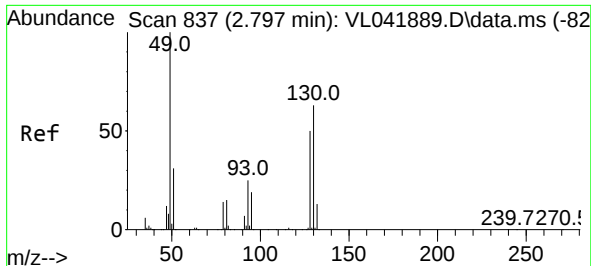
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Feb 04 02:35:35 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 Integrations
APPROVED

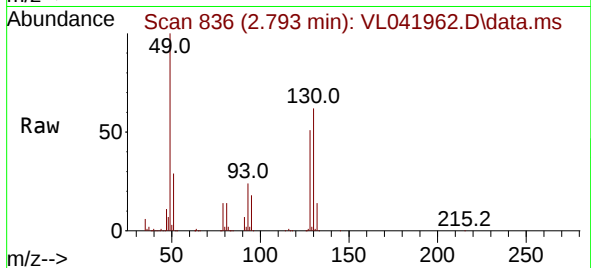
Reviewed By : Semsettin Yesilyurt 02/04/2025
Supervised By : Mahesh Dadoda 02/04/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 81
Delta R.T. -0.004 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

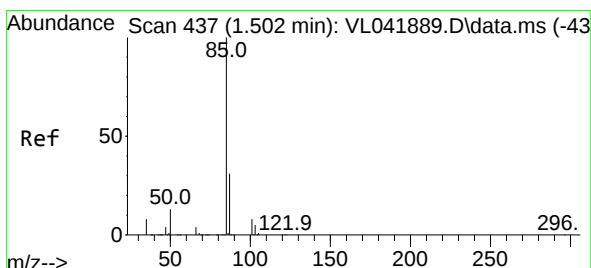
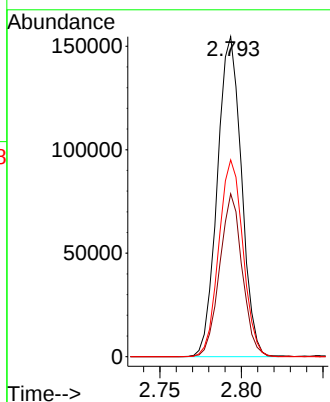
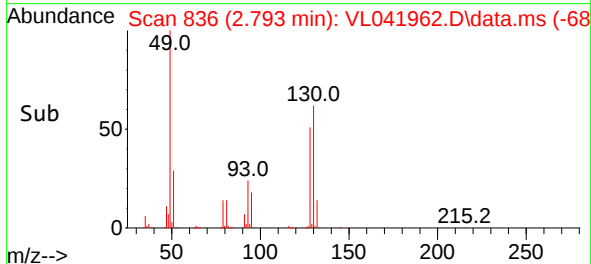
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 15929
Ion Ratio Lower Upper
49 100
128 47.7 24.3 73.0
130 61.4 31.1 93.2

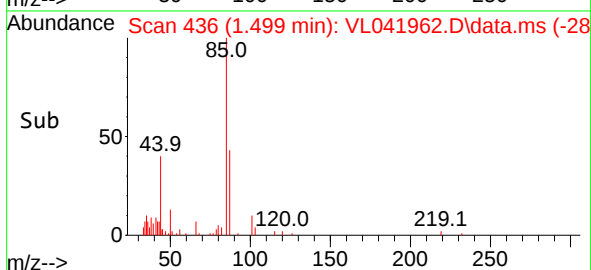
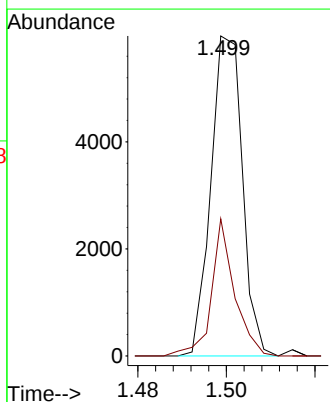
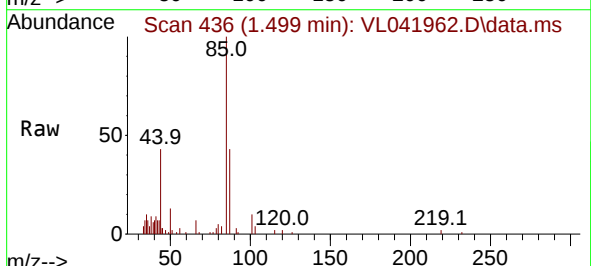
Manual Integrations
APPROVED

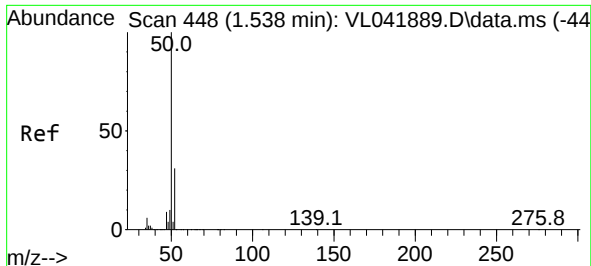
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 0.136 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

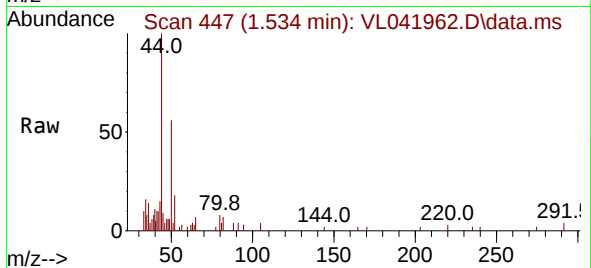
Tgt Ion: 85 Resp: 2951
Ion Ratio Lower Upper
85 100
87 42.8 24.9 37.3#





#4
Chloromethane
Concen: 0.144 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

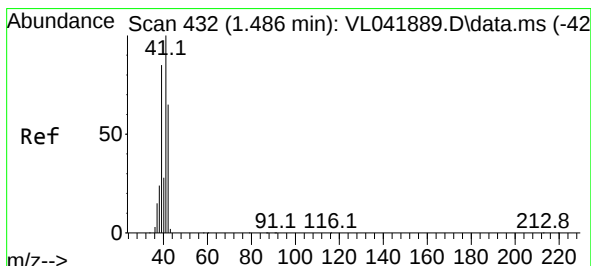
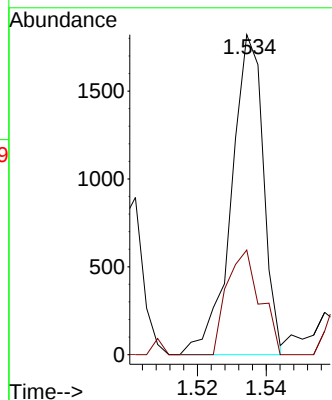
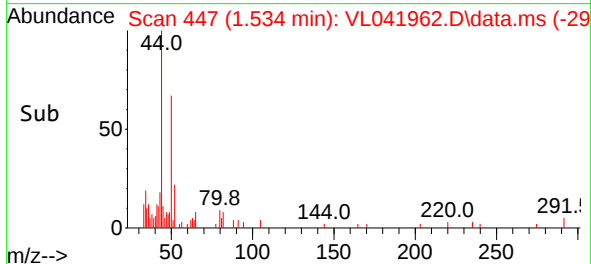
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 50 Resp: 1179
Ion Ratio Lower Upper
50 100
52 32.7 24.6 36.8

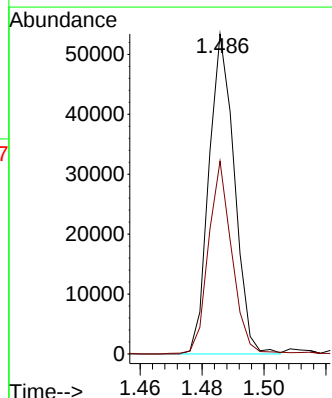
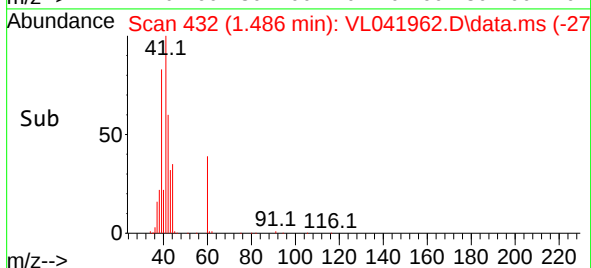
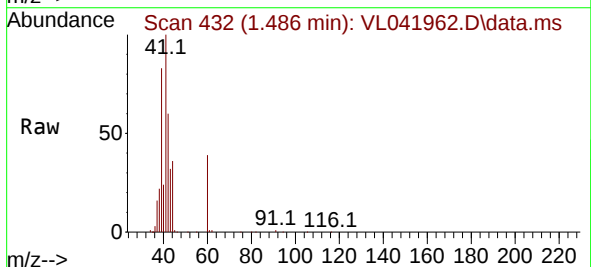
Manual Integrations
APPROVED

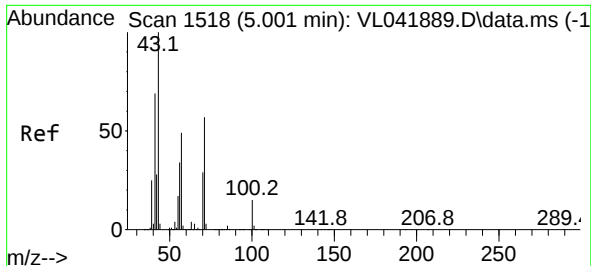
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#9
Propene
Concen: 3.241 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.000 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

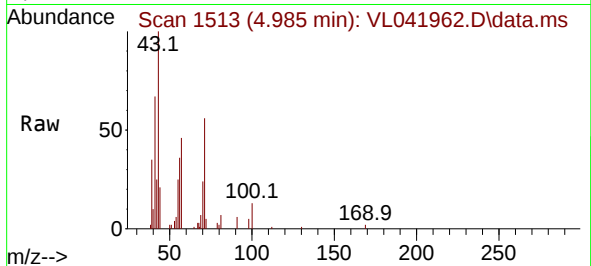
Tgt Ion: 41 Resp: 30351
Ion Ratio Lower Upper
41 100
42 56.3 52.0 78.0





#10
Heptane
Concen: 0.481 ppbv m
RT: 4.985 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

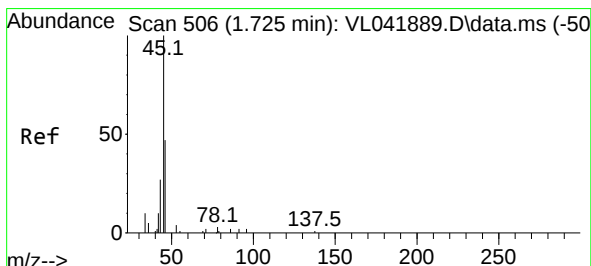
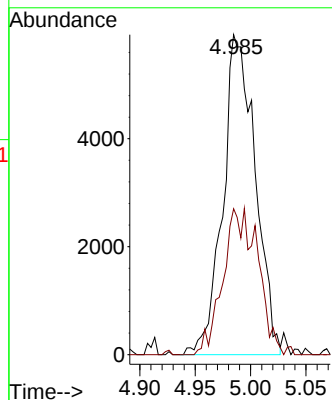
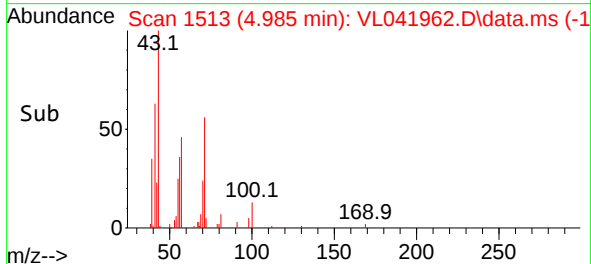
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 1203
Ion Ratio Lower Upper
43 100
57 49.8 41.0 61.4

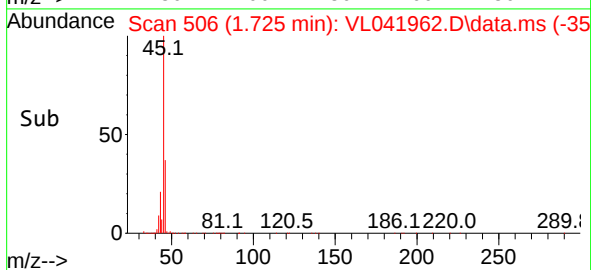
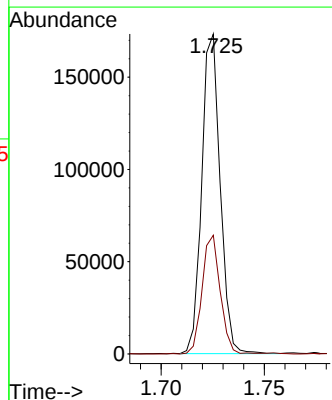
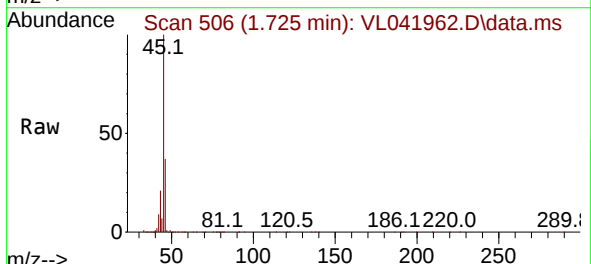
Manual Integrations
APPROVED

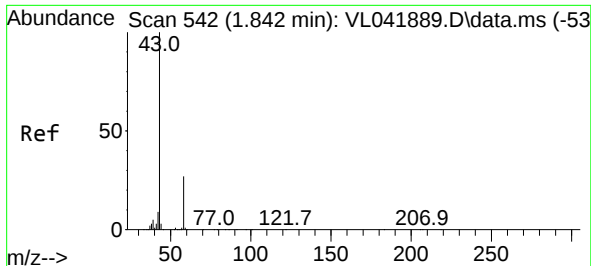
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#13
Ethanol
Concen: 156.617 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.000 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

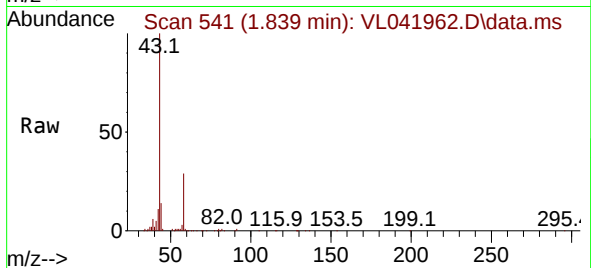
Tgt Ion: 45 Resp: 107420
Ion Ratio Lower Upper
45 100
46 36.8 18.1 72.5





#15
Acetone
Concen: 2.065 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

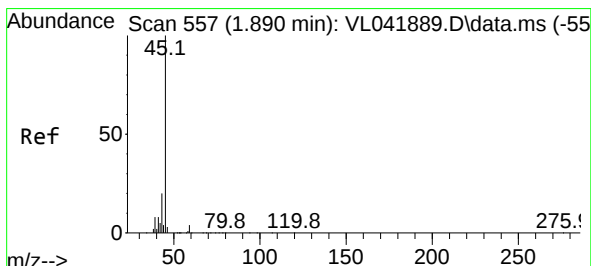
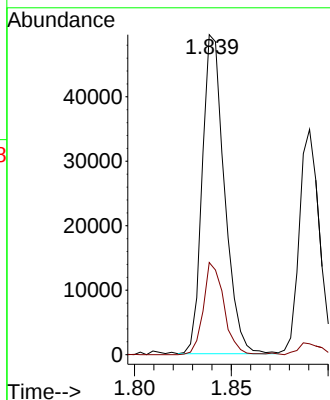
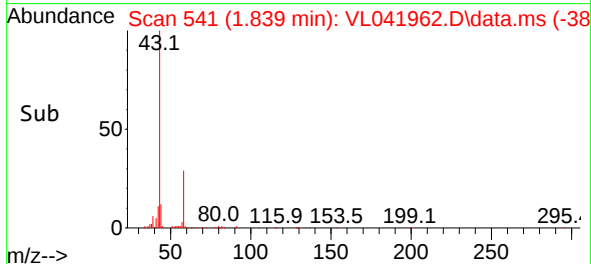
Instrument :
MSVOA_L
ClientSampleId :
SV1



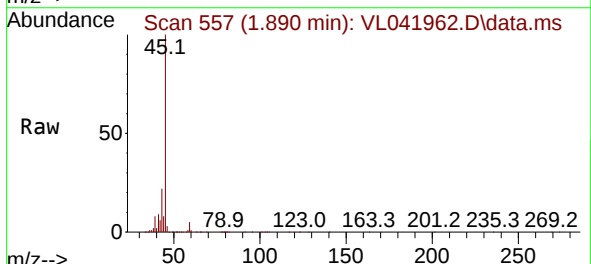
Tgt Ion: 43 Resp: 39507
Ion Ratio Lower Upper
43 100
58 26.8 21.9 32.9

Manual Integrations
APPROVED

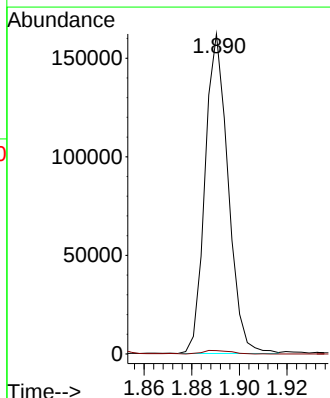
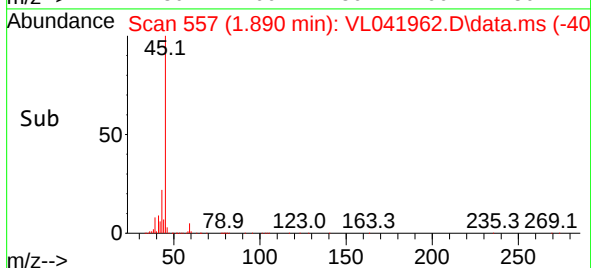
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

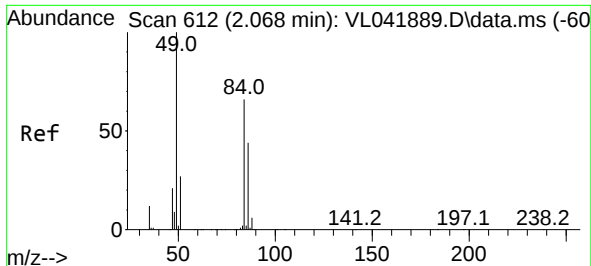


#19
Isopropyl Alcohol
Concen: 9.602 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.000 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57



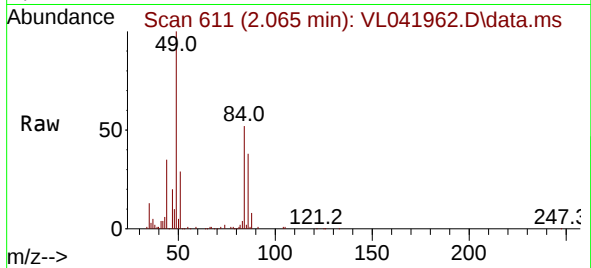
Tgt Ion: 45 Resp: 108933
Ion Ratio Lower Upper
45 100
58 1.4 35.0 52.6#





#20
Methylene Chloride
Concen: 1.557 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

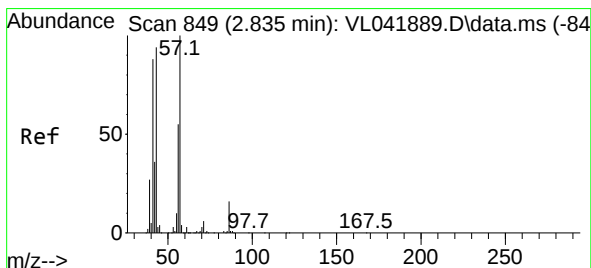
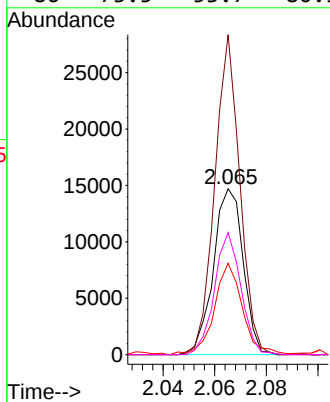
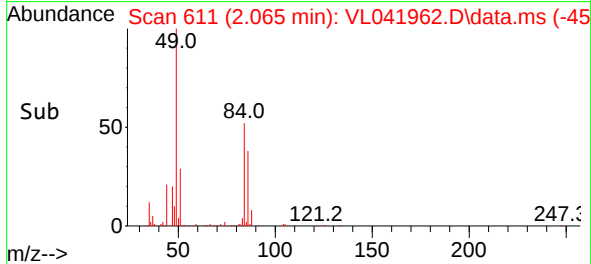
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 11774
Ion Ratio Lower Upper
84 100
49 192.8 123.1 184.7
51 53.4 35.8 53.8
86 73.5 53.7 80.5

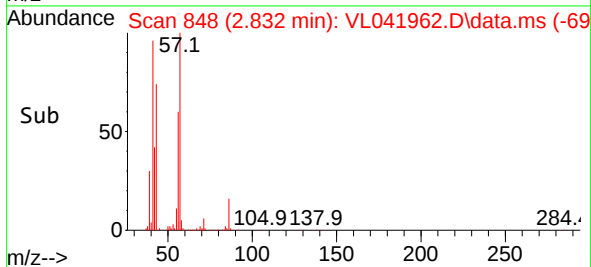
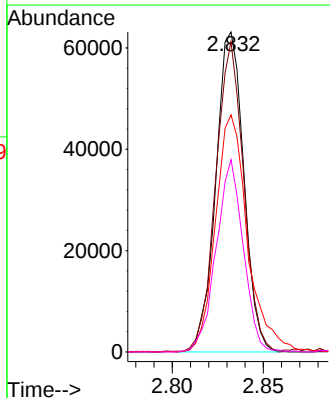
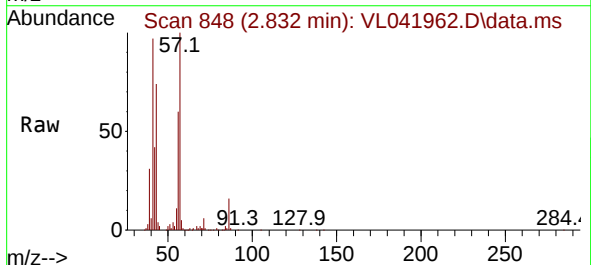
Manual Integrations
APPROVED

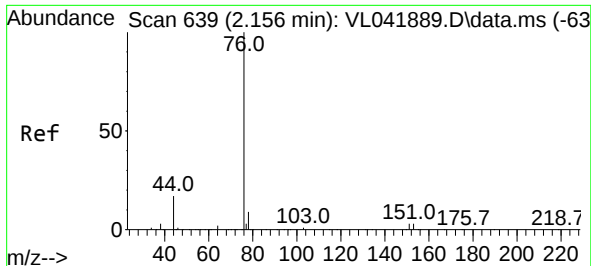
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#26
Hexane
Concen: 3.302 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

Tgt Ion: 57 Resp: 67384
Ion Ratio Lower Upper
57 100
41 98.1 73.8 110.8
43 85.3 197.3 295.9#
56 58.3 42.7 64.1





#27

Carbon Disulfide

Concen: 1.045 ppbv

RT: 2.153 min Scan# 61

Delta R.T. -0.003 min

Lab File: VL041962.D

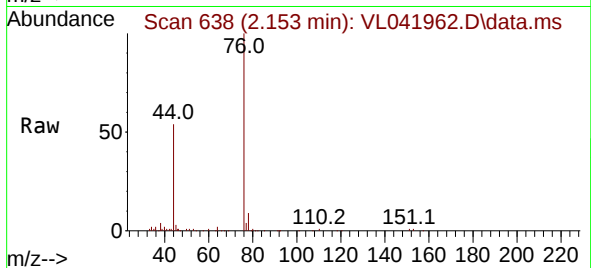
Acq: 03 Feb 2025 13:57

Instrument :

MSVOA_L

ClientSampleId :

SV1



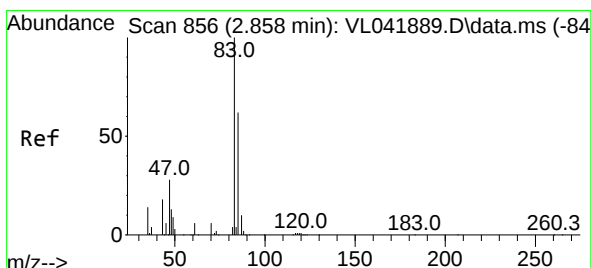
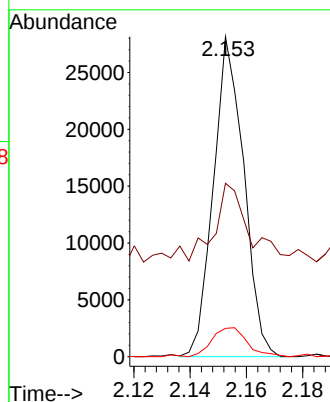
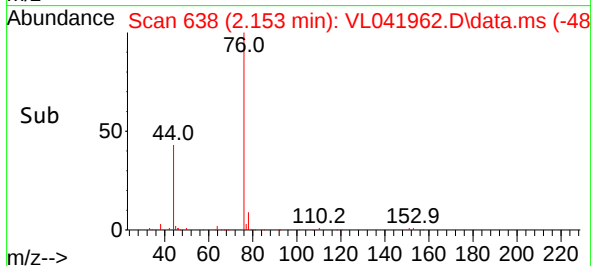
Tgt Ion: 76 Resp: 21090

Ion	Ratio	Lower	Upper
76	100		
44	109.1	15.4	23.0
78	11.0	9.3	13.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#29

Chloroform

Concen: 0.112 ppbv

RT: 2.855 min Scan# 855

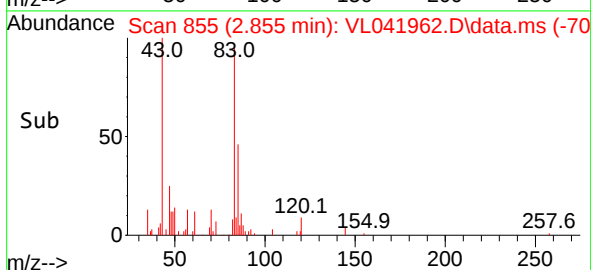
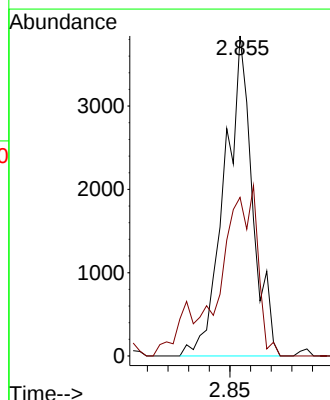
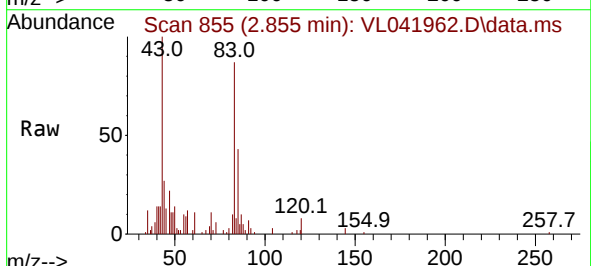
Delta R.T. -0.003 min

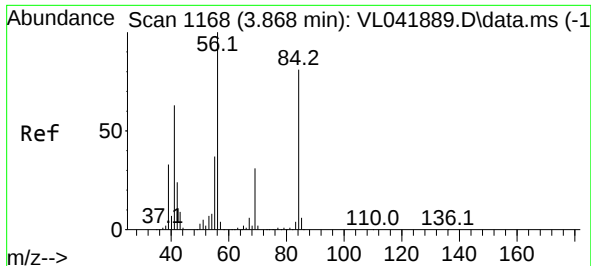
Lab File: VL041962.D

Acq: 03 Feb 2025 13:57

Tgt Ion: 83 Resp: 3627

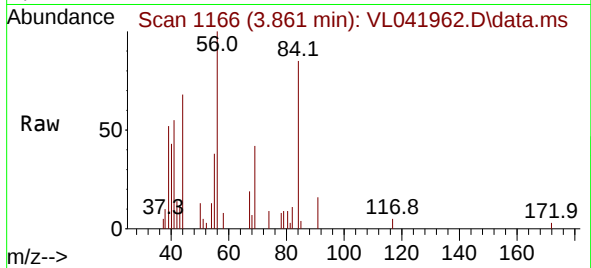
Ion	Ratio	Lower	Upper
83	100		
85	49.5	50.1	75.1





#30
Cyclohexane
Concen: 0.120 ppbv m
RT: 3.861 min Scan# 1166
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

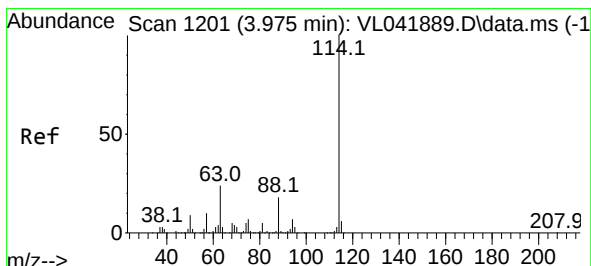
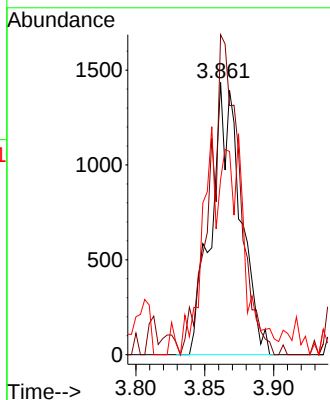
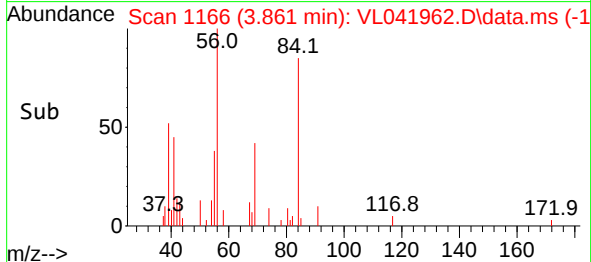
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 213
Ion Ratio Lower Upper
84 100
56 118.2 99.3 148.9
41 114.1 64.3 96.5

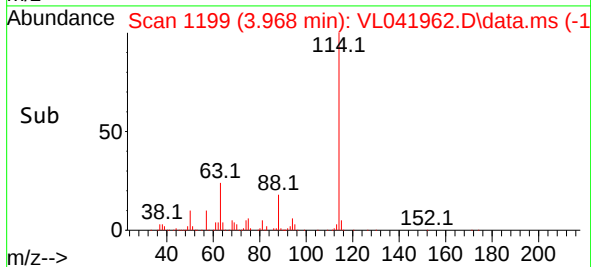
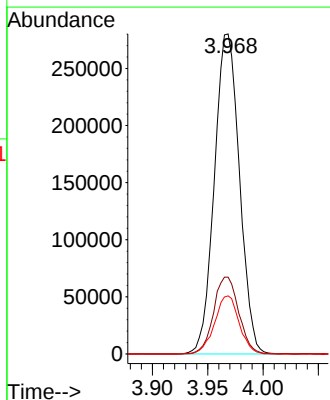
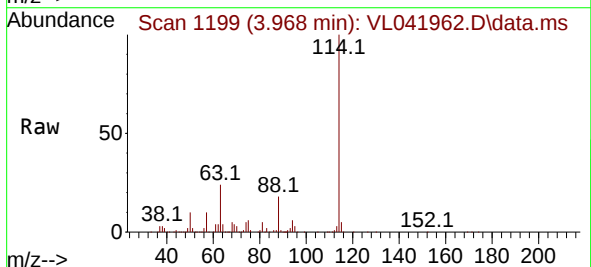
Manual Integrations
APPROVED

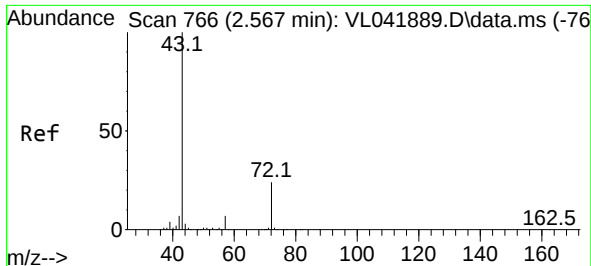
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.968 min Scan# 1199
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

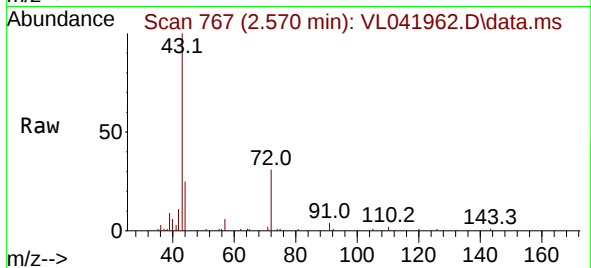
Tgt Ion:114 Resp: 441984
Ion Ratio Lower Upper
114 100
63 24.1 19.8 29.6
88 17.7 14.4 21.6





#34
2-Butanone
Concen: 0.313 ppbv
RT: 2.570 min Scan# 70
Delta R.T. 0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

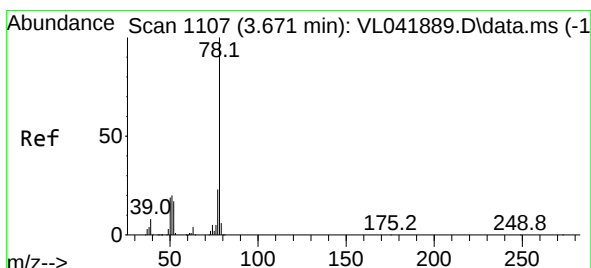
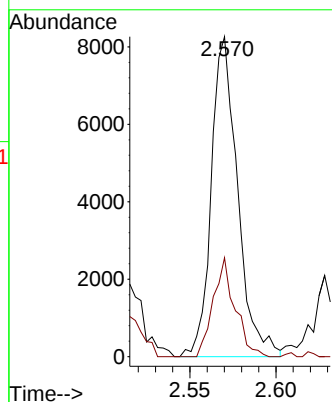
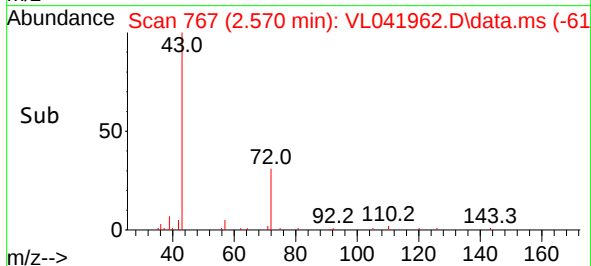
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 8790
Ion Ratio Lower Upper
43 100
72 26.4 18.6 28.0

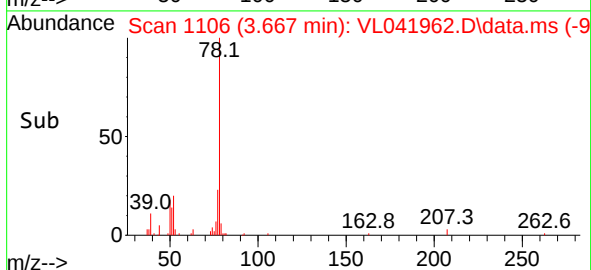
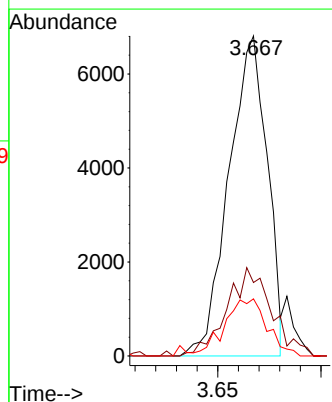
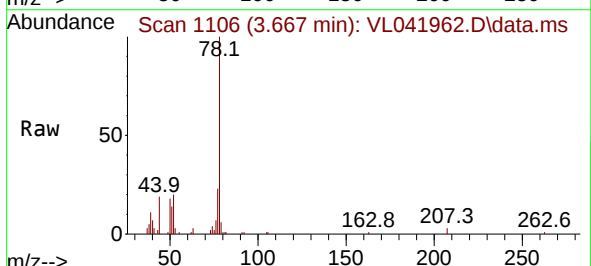
Manual Integrations
APPROVED

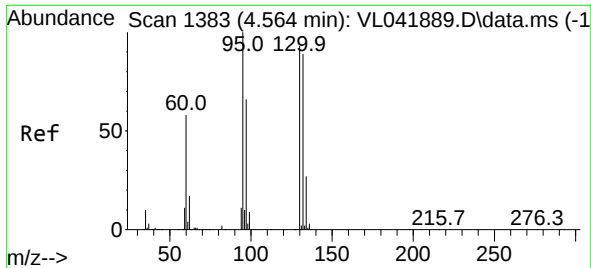
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#36
Benzene
Concen: 0.217 ppbv
RT: 3.667 min Scan# 1106
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

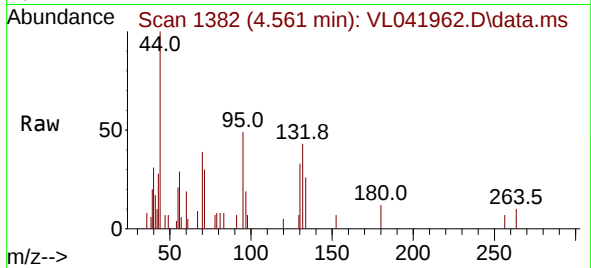
Tgt Ion: 78 Resp: 8790
Ion Ratio Lower Upper
78 100
77 23.0 18.1 27.1
50 14.9 15.2 22.8#





#38
 Trichloroethene
 Concen: 0.034 ppbv m
 RT: 4.561 min Scan# 1382
 Delta R.T. -0.003 min
 Lab File: VL041962.D
 Acq: 03 Feb 2025 13:57

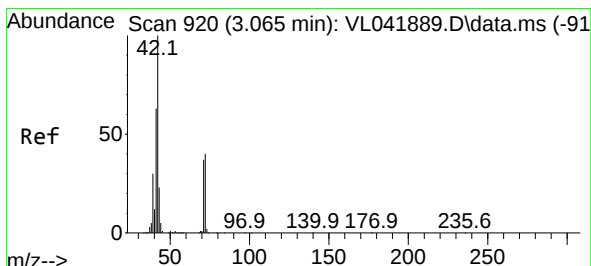
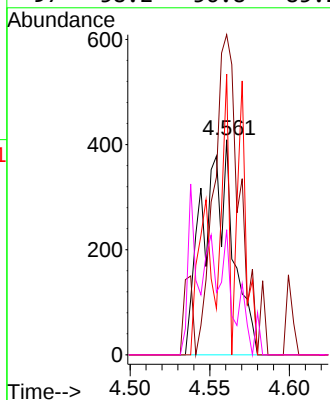
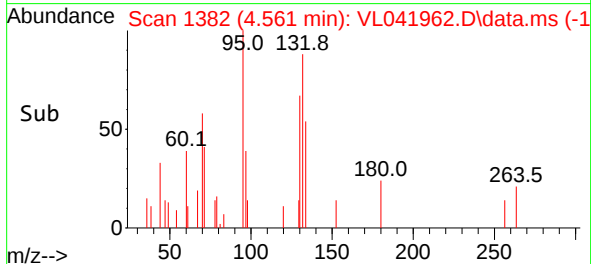
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:130 Resp: 542
 Ion Ratio Lower Upper
 130 100
 95 148.9 85.8 128.8#
 132 130.6 76.5 114.7#
 97 58.2 56.8 85.2

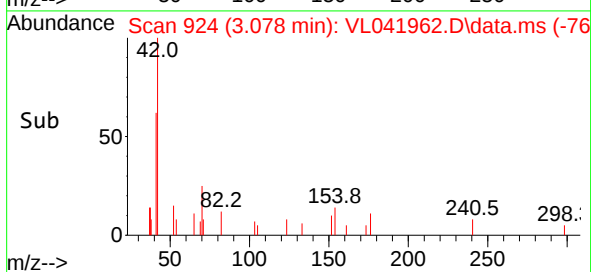
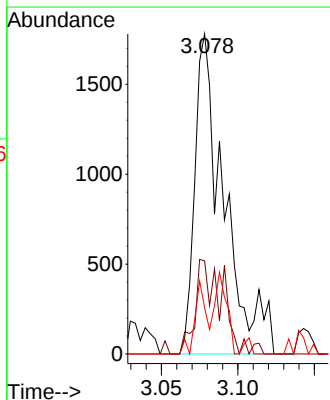
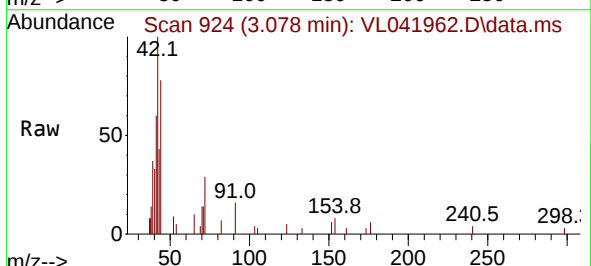
Manual Integrations
 APPROVED

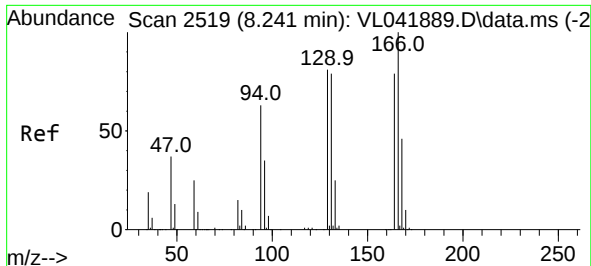
Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025



#41
 Tetrahydrofuran
 Concen: 0.154 ppbv m
 RT: 3.078 min Scan# 924
 Delta R.T. 0.013 min
 Lab File: VL041962.D
 Acq: 03 Feb 2025 13:57

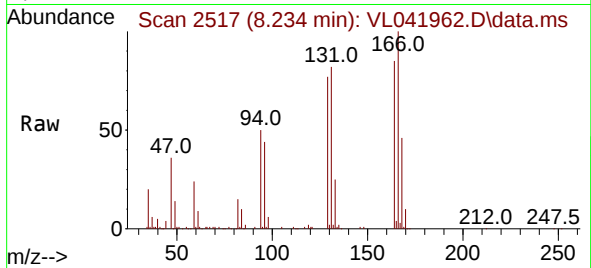
Tgt Ion: 42 Resp: 2353
 Ion Ratio Lower Upper
 42 100
 72 28.0 32.3 48.5#
 71 0.0 29.9 44.9#





#52
Tetrachloroethene
Concen: 2.327 ppbv
RT: 8.234 min Scan# 2120
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

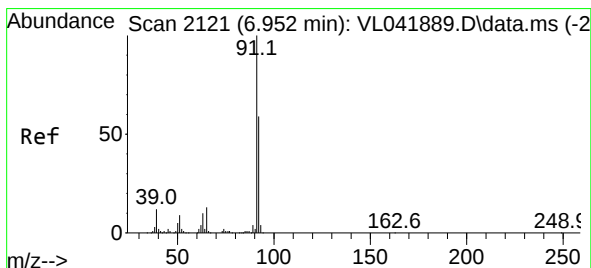
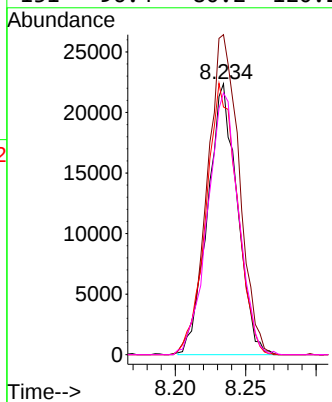
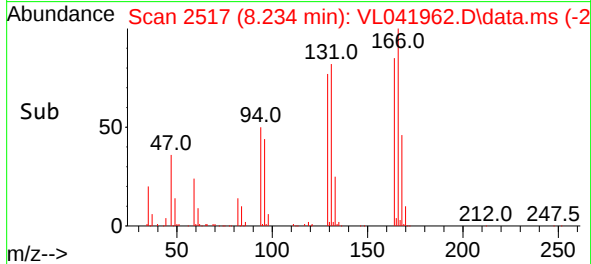
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 32700
Ion Ratio Lower Upper
164 100
166 118.1 100.8 151.2
129 91.5 82.0 123.0
131 96.4 80.2 120.2

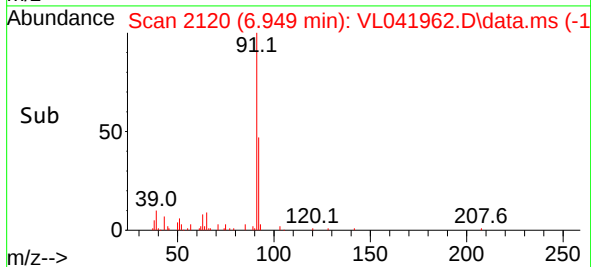
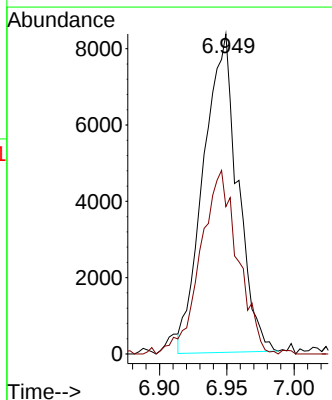
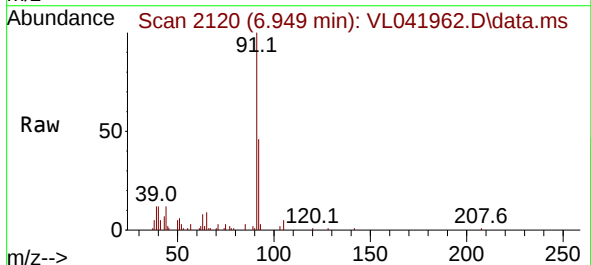
Manual Integrations
APPROVED

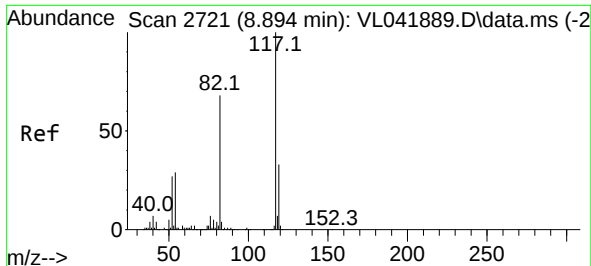
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#53
Toluene
Concen: 0.335 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

Tgt Ion: 91 Resp: 14795
Ion Ratio Lower Upper
91 100
92 63.6 47.4 71.0





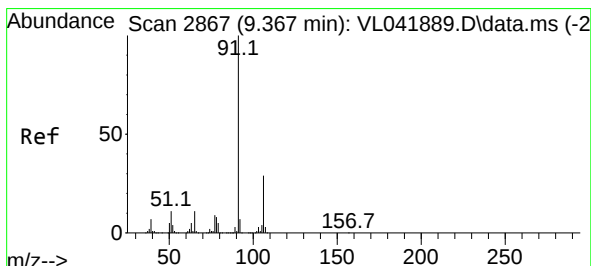
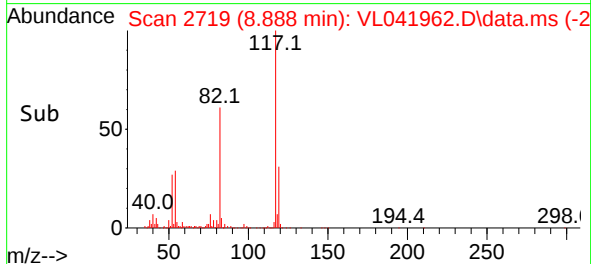
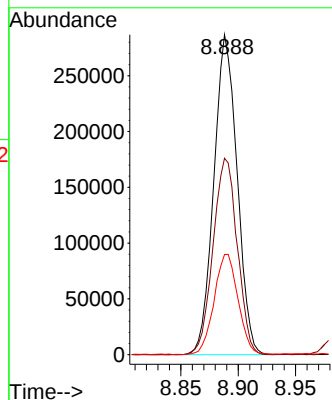
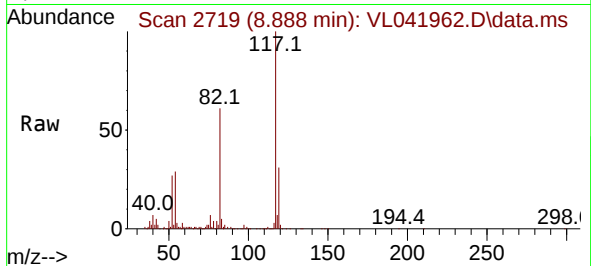
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:117 Resp: 404852
Ion Ratio Lower Upper
117 100
82 63.9 54.2 81.4
119 32.3 25.0 37.6

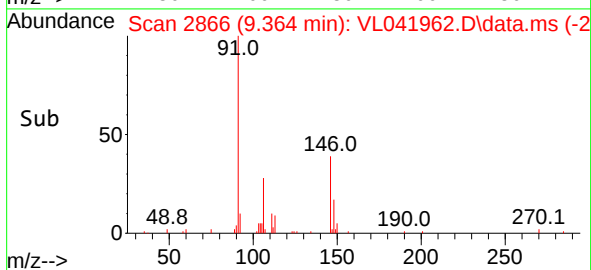
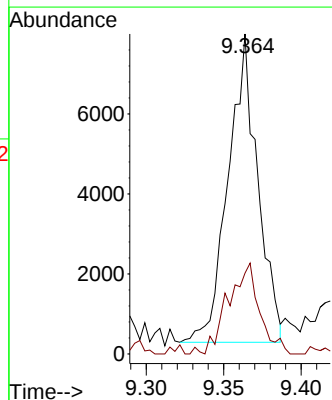
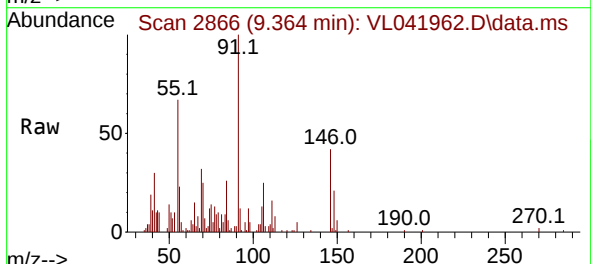
Manual Integrations
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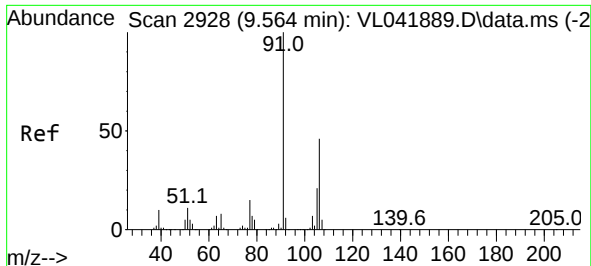
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#58
Ethyl Benzene
Concen: 0.161 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. -0.003 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

Tgt Ion: 91 Resp: 10216
Ion Ratio Lower Upper
91 100
106 23.2 23.1 34.7





#59

m/p-Xylene

Concen: 0.356 ppbv m

RT: 9.532 min Scan# 2918

Delta R.T. -0.032 min

Lab File: VL041962.D

Acq: 03 Feb 2025 13:57

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 1805

Ion Ratio Lower Upper

91 100

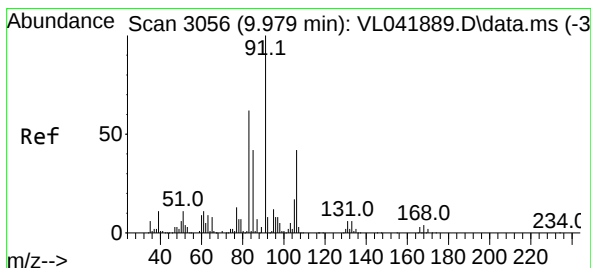
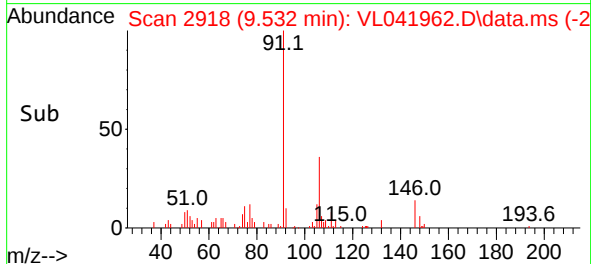
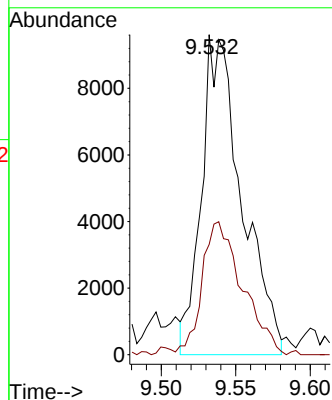
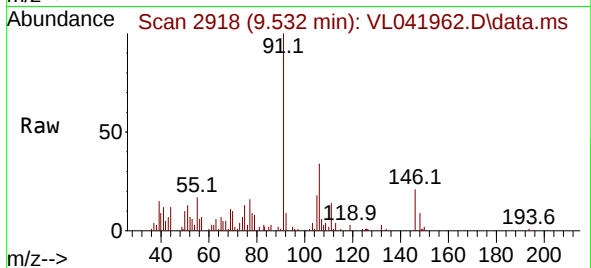
106 0.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#60

o-Xylene

Concen: 0.220 ppbv m

RT: 9.969 min Scan# 3053

Delta R.T. -0.010 min

Lab File: VL041962.D

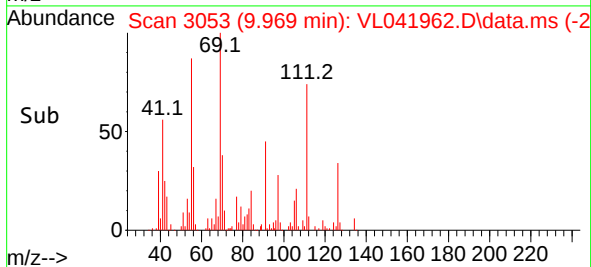
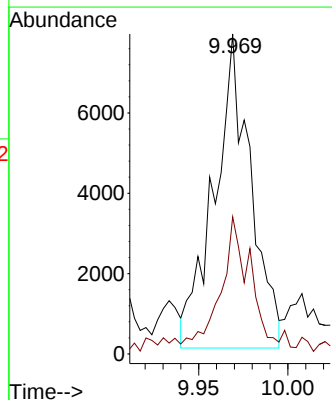
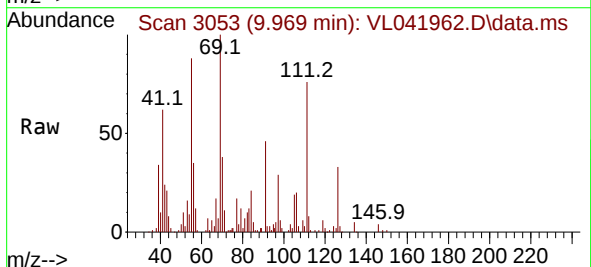
Acq: 03 Feb 2025 13:57

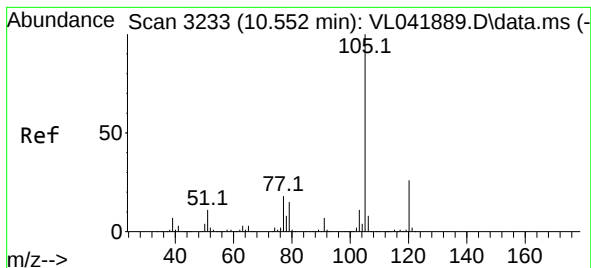
Tgt Ion: 91 Resp: 11076

Ion Ratio Lower Upper

91 100

106 2.3 21.3 63.9





#62

Isopropylbenzene

Concen: 0.182 ppbv

RT: 10.545 min Scan# 3233

Delta R.T. -0.006 min

Lab File: VL041962.D

Acq: 03 Feb 2025 13:57

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 1419

Ion Ratio Lower Upper

105 100

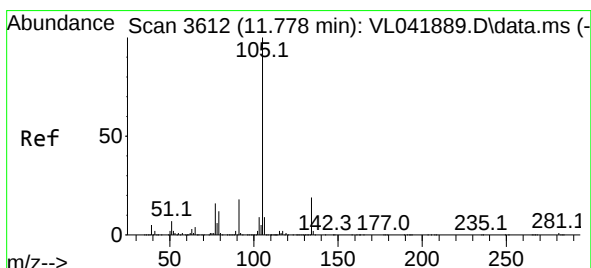
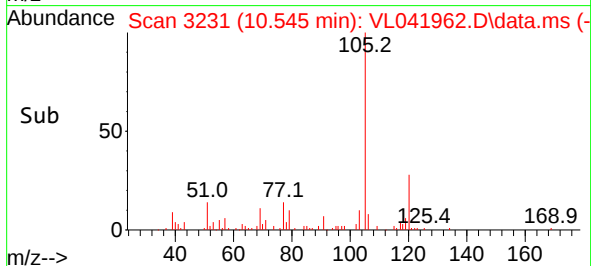
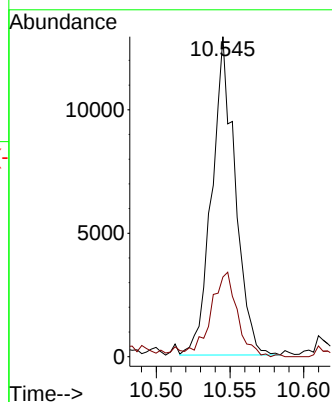
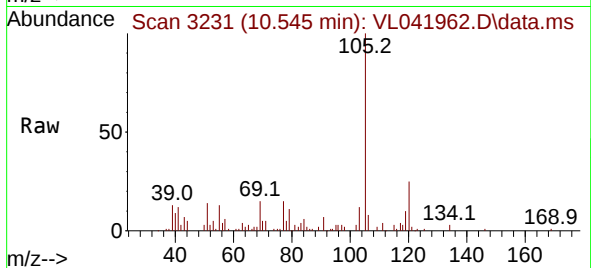
120 32.2 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#67

sec-Butylbenzene

Concen: 0.103 ppbv m

RT: 11.775 min Scan# 3611

Delta R.T. -0.003 min

Lab File: VL041962.D

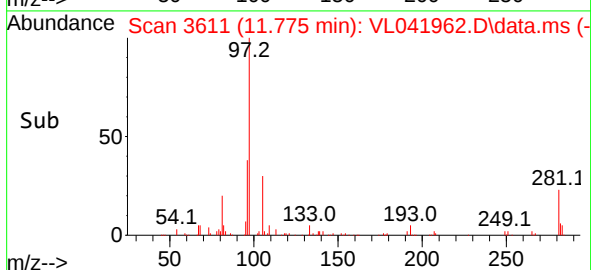
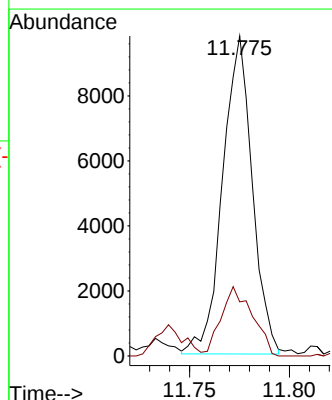
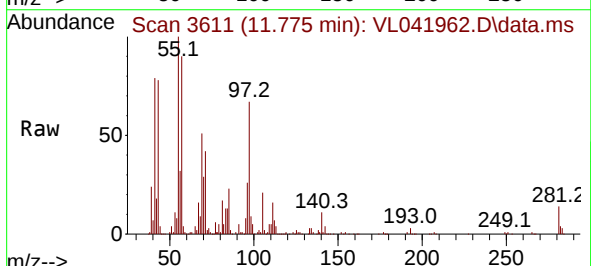
Acq: 03 Feb 2025 13:57

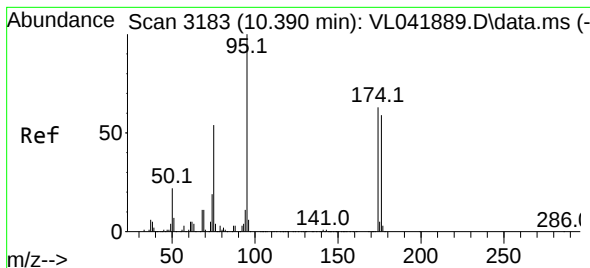
Tgt Ion:105 Resp: 10079

Ion Ratio Lower Upper

105 100

134 1.7 15.1 22.7





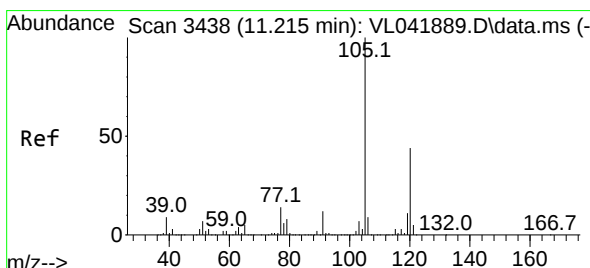
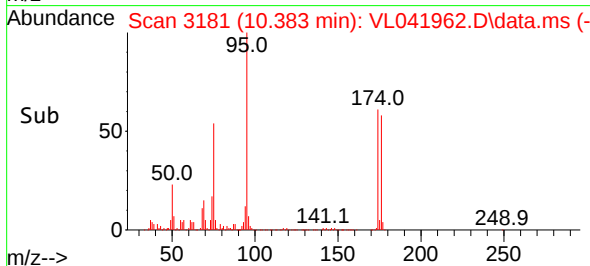
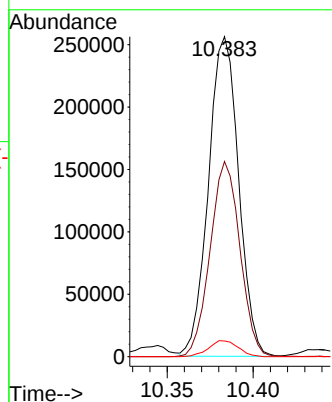
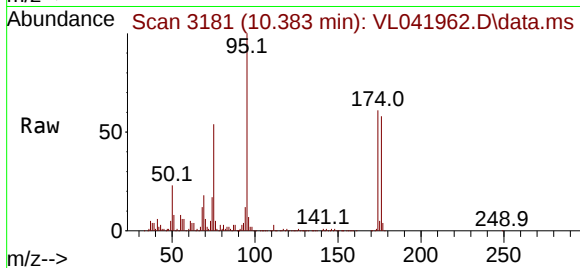
#68
1-Bromo-4-Fluorobenzene
Concen: 9.806 ppbv
RT: 10.383 min Scan# 3183
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 95 Resp: 312689
Ion Ratio Lower Upper
95 100
174 60.5 49.0 73.4
175 4.9 3.8 5.8

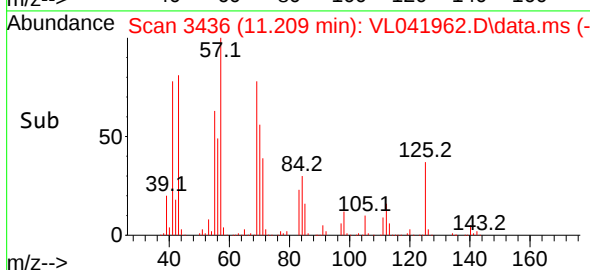
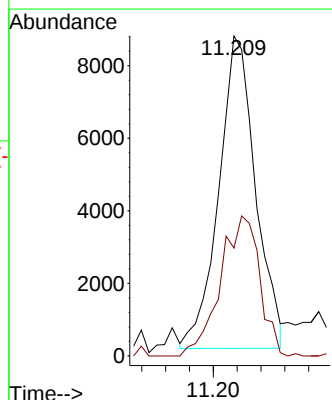
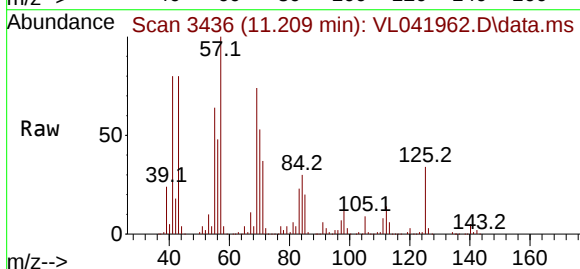
Manual Integrations
APPROVED

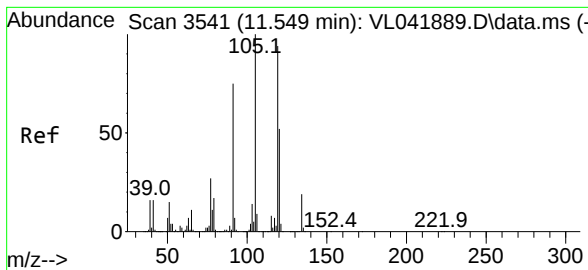
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.173 ppbv
RT: 11.209 min Scan# 3436
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

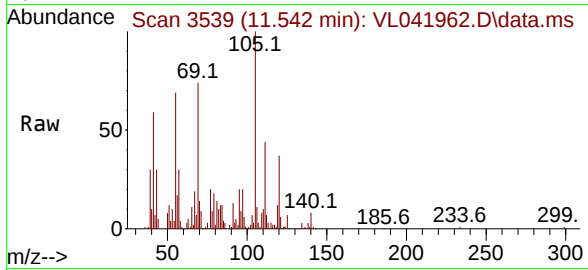
Tgt Ion:105 Resp: 9214
Ion Ratio Lower Upper
105 100
120 34.3 35.4 53.2#





#74
1,2,4-Trimethylbenzene
Concen: 0.251 ppbv
RT: 11.542 min Scan# 3145
Delta R.T. -0.006 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

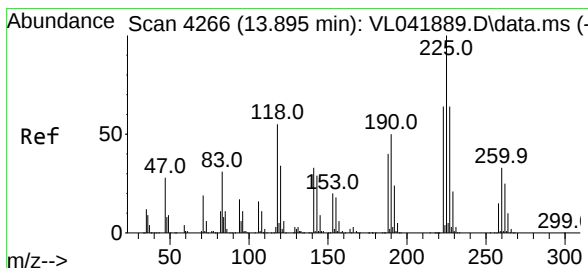
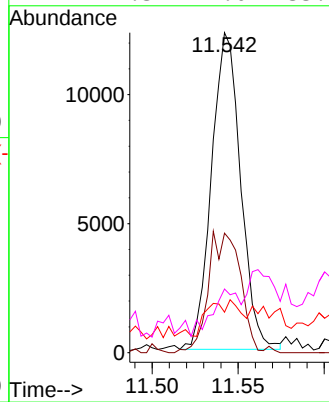
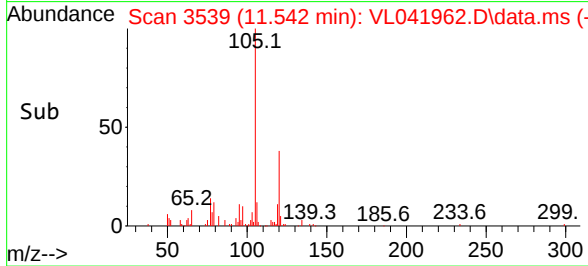
Instrument :
MSVOA_L
ClientSampleId :
SV1



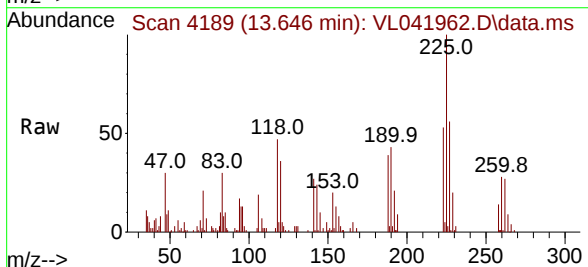
Tgt Ion:105 Resp: 14454
Ion Ratio Lower Upper
105 100
120 37.7 41.4 62.2#
91 6.4 60.2 90.2#
77 12.3 22.0 33.0#

Manual Integrations
APPROVED

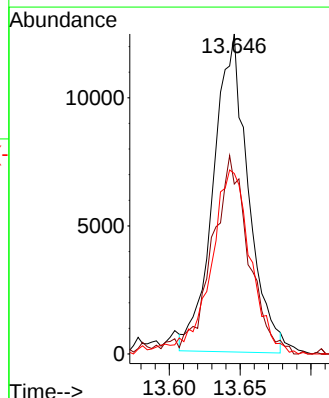
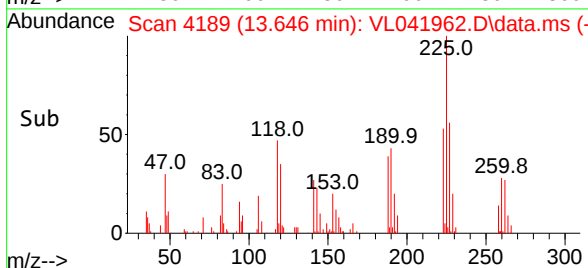
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

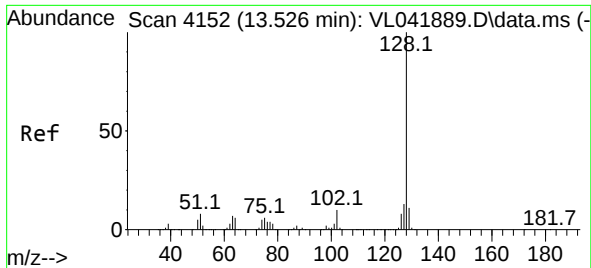


#78
Hexachloro-1,3-Butadiene
Concen: 0.763 ppbv m
RT: 13.646 min Scan# 4189
Delta R.T. -0.249 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57



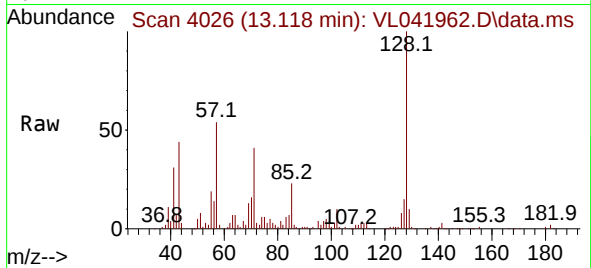
Tgt Ion:225 Resp: 21171
Ion Ratio Lower Upper
225 100
223 0.0 50.8 76.2#
227 0.0 50.3 75.5#





#79
Naphthalene
Concen: 1.691 ppbv m
RT: 13.118 min Scan# 4026
Delta R.T. -0.408 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

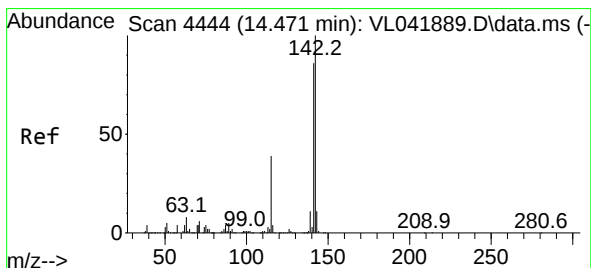
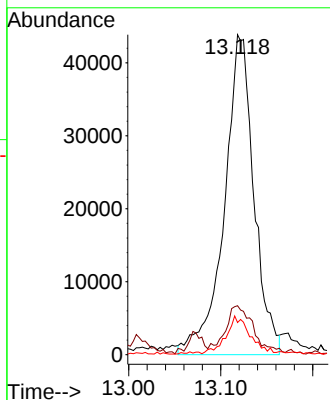
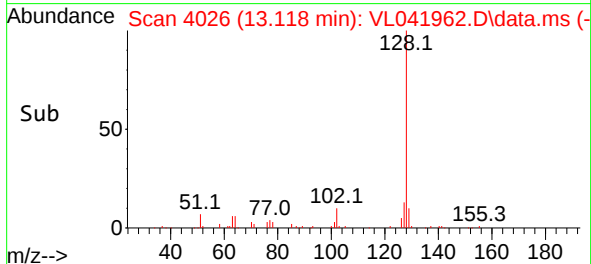
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:128 Resp: 9803
Ion Ratio Lower Upper
128 100
127 15.3 10.2 15.4
129 10.1 9.1 13.7

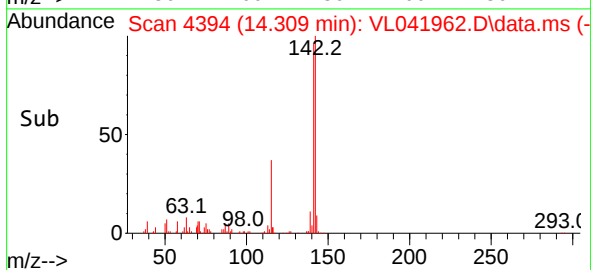
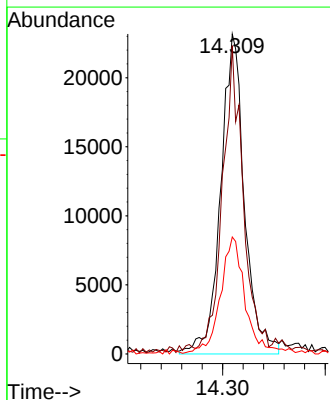
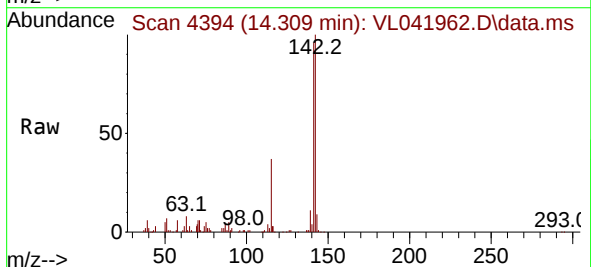
Manual Integrations
APPROVED

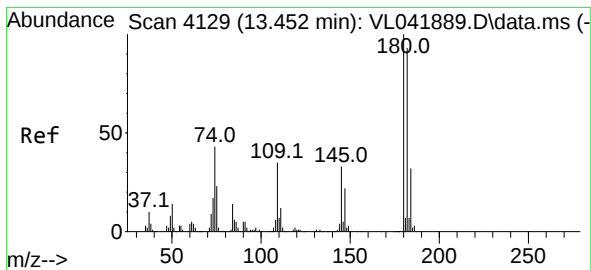
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#80
Naphthalene,2-methyl-
Concen: 1.359 ppbv m
RT: 14.309 min Scan# 4394
Delta R.T. -0.162 min
Lab File: VL041962.D
Acq: 03 Feb 2025 13:57

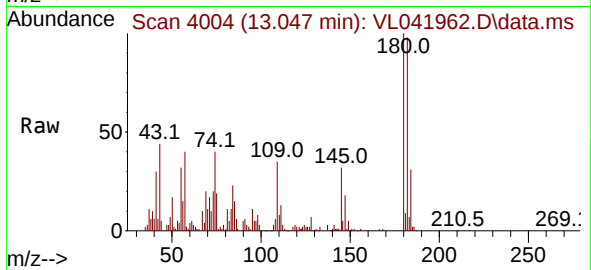
Tgt Ion:142 Resp: 37363
Ion Ratio Lower Upper
142 100
141 0.0 68.1 102.1#
115 0.0 31.7 47.5#





#81
 1,2,4-Trichlorobenzene
 Concen: 1.818 ppbv m
 RT: 13.047 min Scan# 4004
 Delta R.T. -0.405 min
 Lab File: VL041962.D
 Acq: 03 Feb 2025 13:57

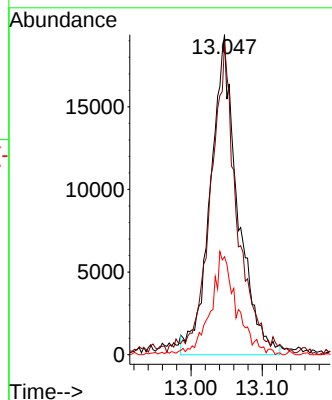
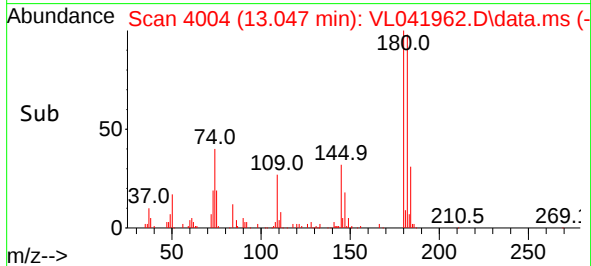
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion:180 Resp: 51438
 Ion Ratio Lower Upper
 180 100
 182 0.0 77.0 115.6
 184 0.0 24.9 37.3

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	01/28/25
Project:	2440 Jerome Ave, Bronx NY	Date Received:	01/29/25
Client Sample ID:	IA1	SDG No.:	Q1222
Lab Sample ID:	Q1222-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041967.D	1		02/03/25 16:35	VL020325

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
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.080	0.54		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.0			65 - 135	100%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	150000			2.794		
540-36-3	1,4-Difluorobenzene	412000			3.972		
3114-55-4	Chlorobenzene-d5	359000			8.891		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041967.D
 Acq On : 03 Feb 2025 16:35
 Operator : SY/MD
 Sample : Q1222-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:38:28 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 23:15:42 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	150093	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	411838	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	358723	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	281200	9.952	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%

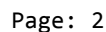
Target Compounds

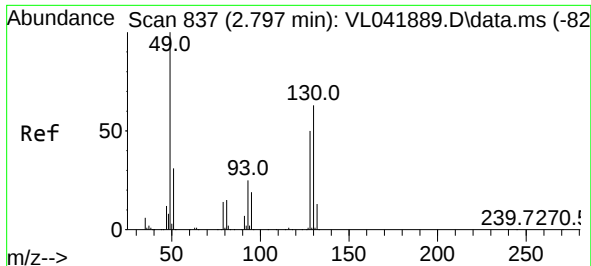
						Qvalue
2) Dichlorodifluoromethane	1.502	85	8300	0.406	ppbv #	85
3) Chlorodifluoromethane	1.480	51	5789m	0.270	ppbv	
4) Chloromethane	1.535	50	3962	0.515	ppbv #	87
9) Propene	1.489	41	55274m	6.265	ppbv	
10) Heptane	4.995	43	111593	4.732	ppbv	99
11) Trichlorofluoromethane	1.881	101	4572	0.215	ppbv	99
13) Ethanol	1.726	45	507156	784.773	ppbv	89
15) Acetone	1.839	43	304441	16.888	ppbv	94
19) Isopropyl Alcohol	1.891	45	262017	24.513	ppbv #	76
20) Methylene Chloride	2.069	84	2275	0.319	ppbv #	91
26) Hexane	2.832	57	14728	0.766	ppbv #	68
29) Chloroform	2.855	83	11281	0.371	ppbv	95
30) Cyclohexane	3.868	84	10115	0.607	ppbv #	90
34) 2-Butanone	2.567	43	38426	1.467	ppbv	100
35) Carbon Tetrachloride	3.774	117	1747m	0.068	ppbv	
36) Benzene	3.671	78	13894	0.368	ppbv #	92
41) Tetrahydrofuran	3.075	42	8618	0.605	ppbv	92
44) 2,2,4-Trimethylpentane	4.658	57	19641m	0.321	ppbv	
52) Tetrachloroethene	8.225	164	1044m	0.080	ppbv	
53) Toluene	6.949	91	58221	1.415	ppbv	99
58) Ethyl Benzene	9.364	91	11254	0.201	ppbv #	78
59) m/p-Xylene	9.539	91	47247	1.051	ppbv	95
60) o-Xylene	9.972	91	18366	0.412	ppbv	98
74) 1,2,4-Trimethylbenzene	11.545	105	18298	0.359	ppbv #	54

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

Manual Integrations

Quant Time: Feb 04 02:38:28 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





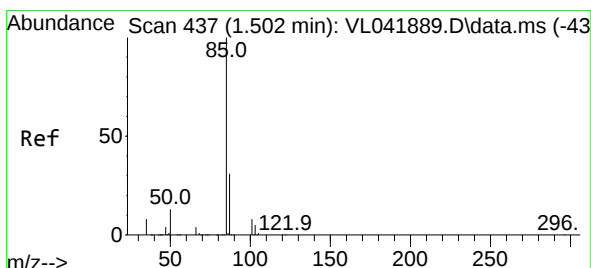
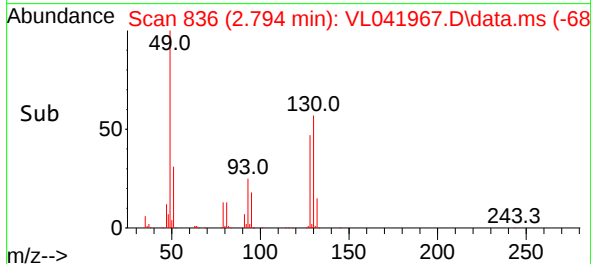
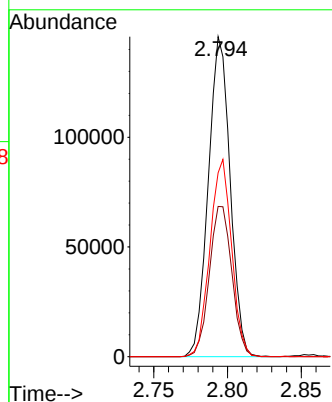
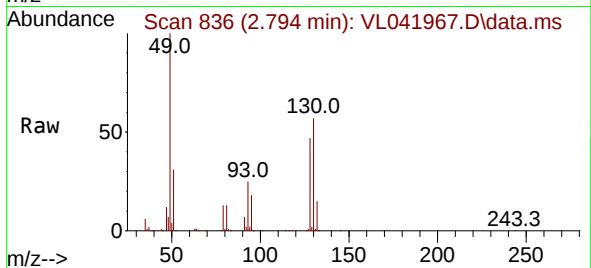
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 49 Resp: 15009
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 61.1 31.1 93.2

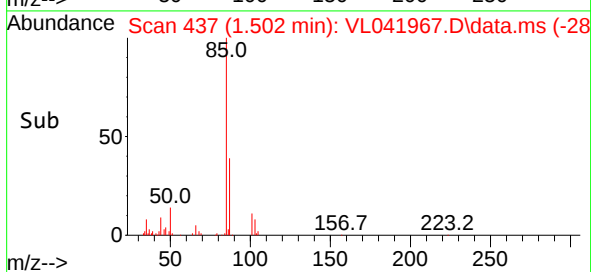
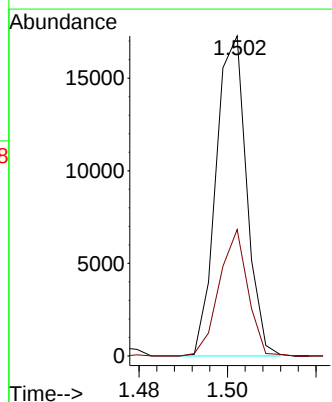
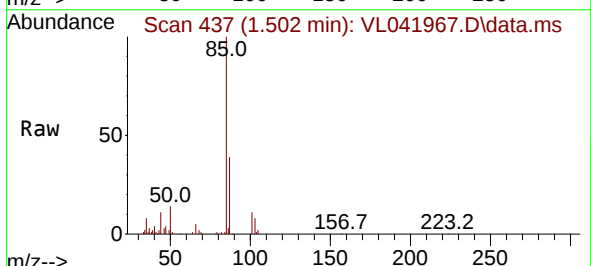
Manual Integrations
APPROVED

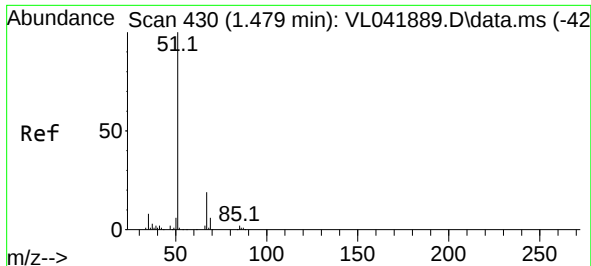
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 0.406 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

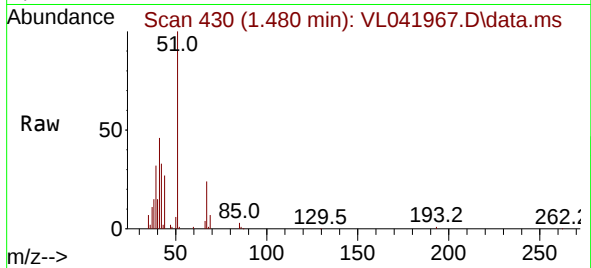
Tgt Ion: 85 Resp: 8300
Ion Ratio Lower Upper
85 100
87 39.5 24.9 37.3#





#3
Chlorodifluoromethane
Concen: 0.270 ppbv m
RT: 1.480 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

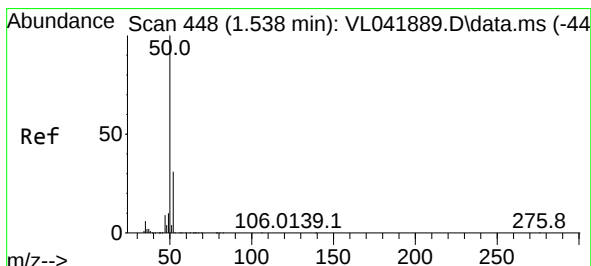
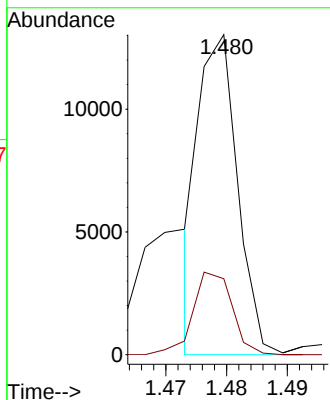
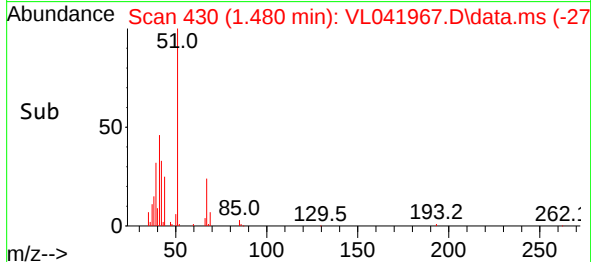
Instrument :
MSVOA_L
ClientSampleId :
IA1



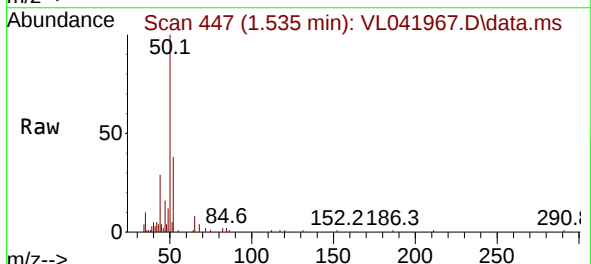
Tgt Ion: 51 Resp: 5789
Ion Ratio Lower Upper
51 100
67 26.1 15.0 22.4

Manual Integrations
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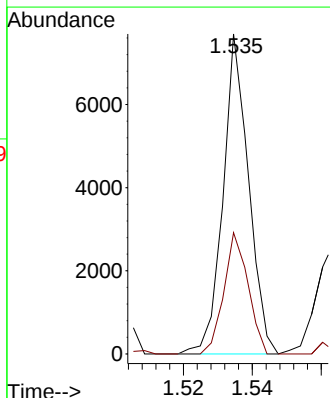
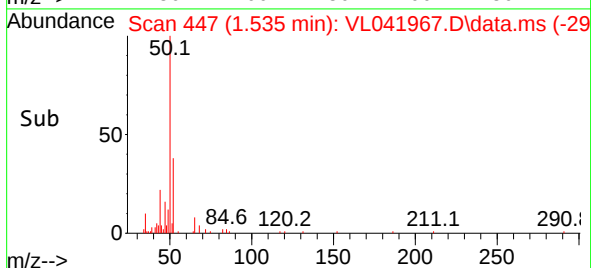
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

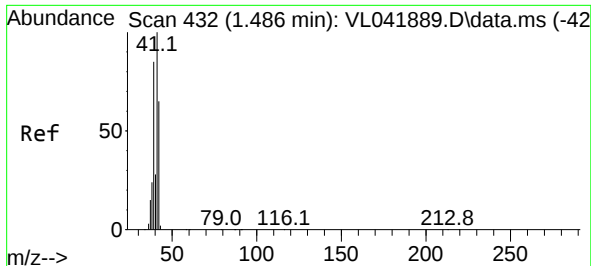


#4
Chloromethane
Concen: 0.515 ppbv
RT: 1.535 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



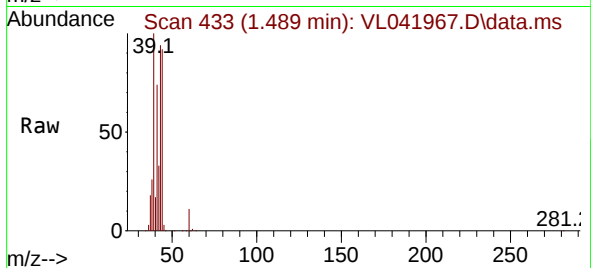
Tgt Ion: 50 Resp: 3962
Ion Ratio Lower Upper
50 100
52 37.9 24.6 36.8





#9
 Propene
 Concen: 6.265 ppbv m
 RT: 1.489 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041967.D
 Acq: 03 Feb 2025 16:35

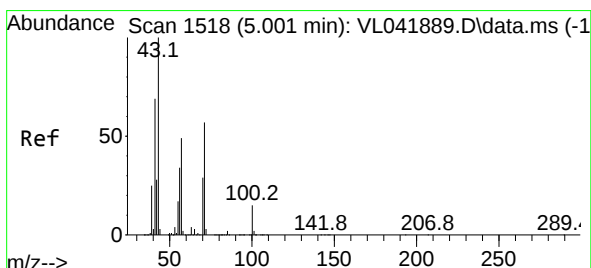
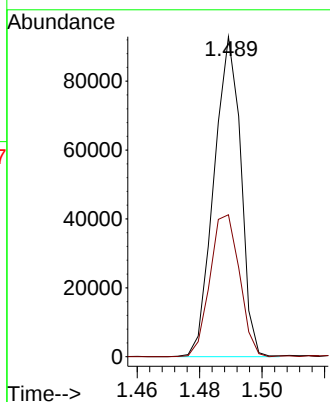
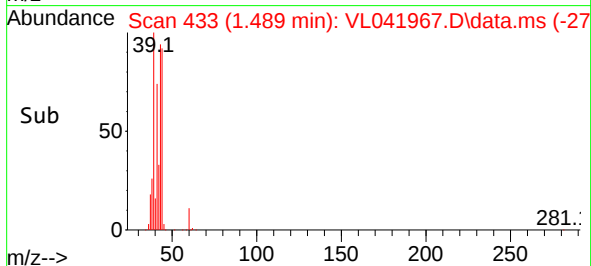
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



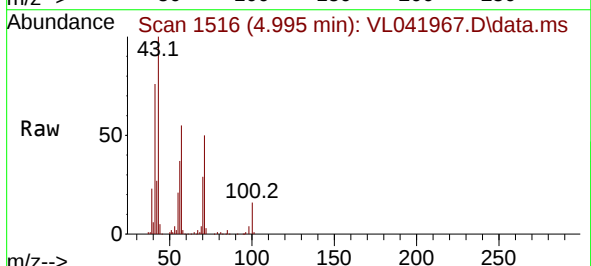
Tgt Ion: 41 Resp: 55274
 Ion Ratio Lower Upper
 41 100
 42 61.7 52.0 78.0

Manual Integrations
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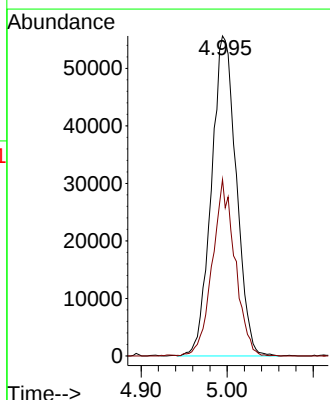
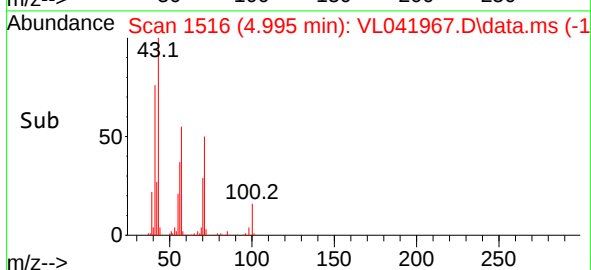
Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

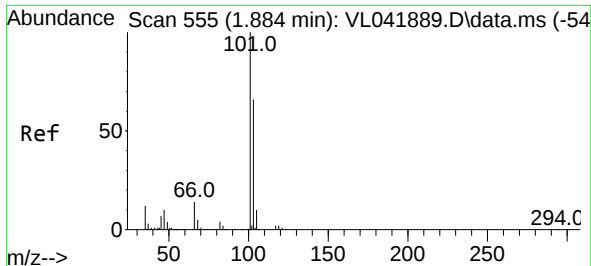


#10
 Heptane
 Concen: 4.732 ppbv
 RT: 4.995 min Scan# 1516
 Delta R.T. -0.006 min
 Lab File: VL041967.D
 Acq: 03 Feb 2025 16:35



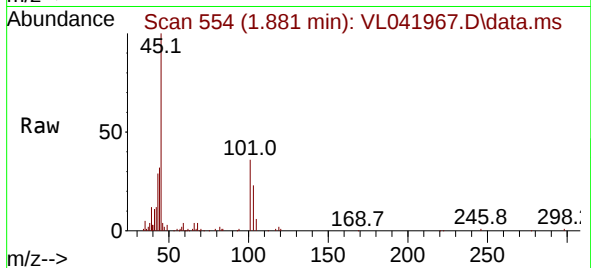
Tgt Ion: 43 Resp: 111593
 Ion Ratio Lower Upper
 43 100
 57 50.4 41.0 61.4





#11
 Trichlorofluoromethane
 Concen: 0.215 ppbv
 RT: 1.881 min Scan# 501
 Delta R.T. -0.003 min
 Lab File: VL041967.D
 Acq: 03 Feb 2025 16:35

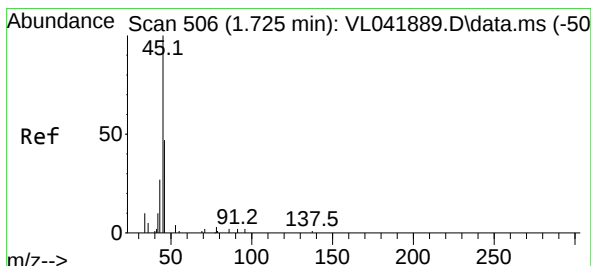
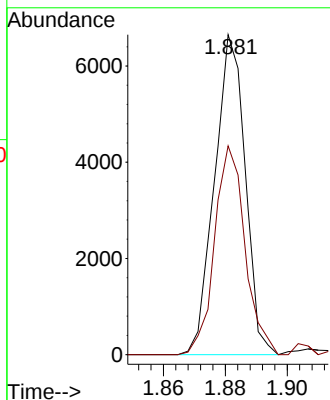
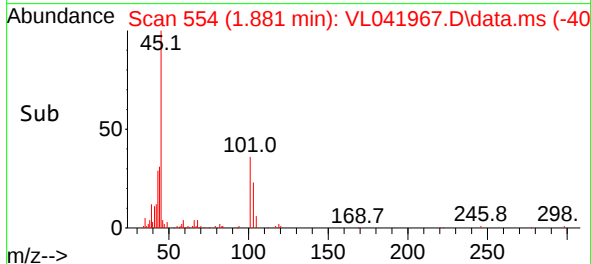
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion:101 Resp: 4572
 Ion Ratio Lower Upper
 101 100
 103 65.3 53.1 79.7

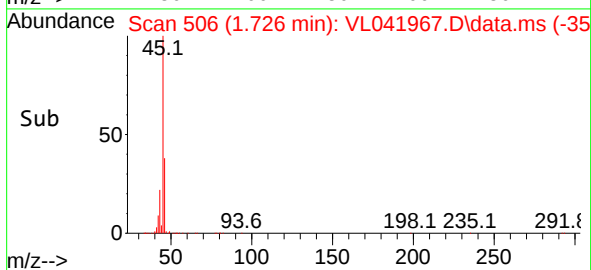
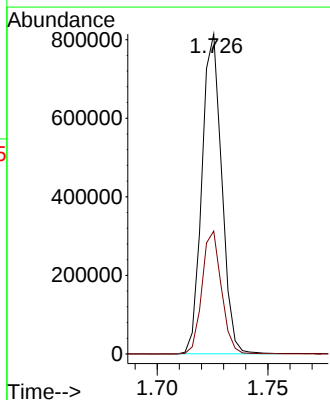
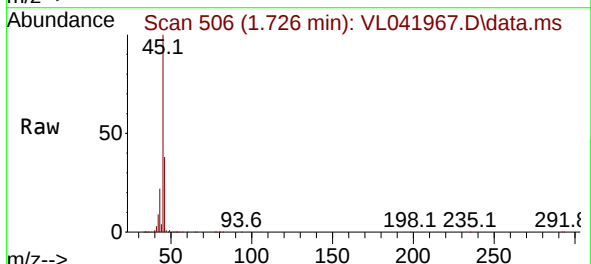
Manual Integrations
 APPROVED

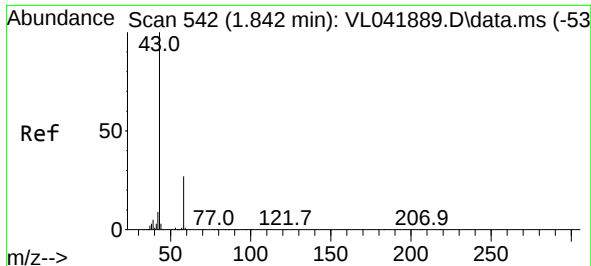
Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025



#13
 Ethanol
 Concen: 784.773 ppbv
 RT: 1.726 min Scan# 506
 Delta R.T. 0.000 min
 Lab File: VL041967.D
 Acq: 03 Feb 2025 16:35

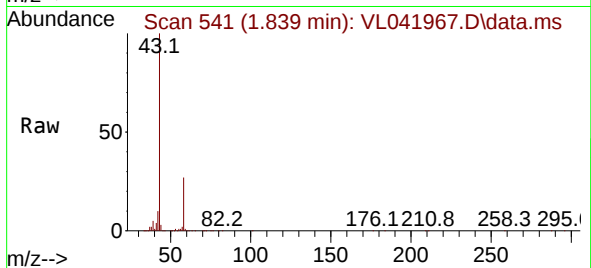
Tgt Ion: 45 Resp: 507156
 Ion Ratio Lower Upper
 45 100
 46 37.9 18.1 72.5





#15
Acetone
Concen: 16.888 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

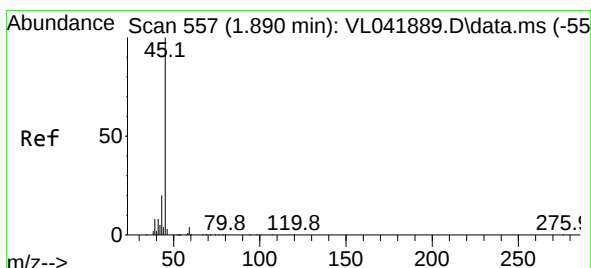
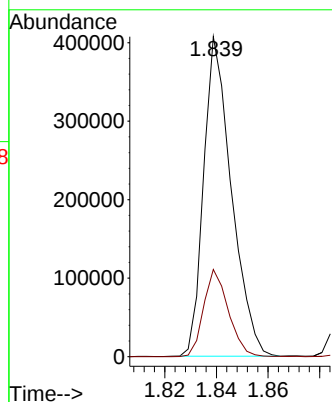
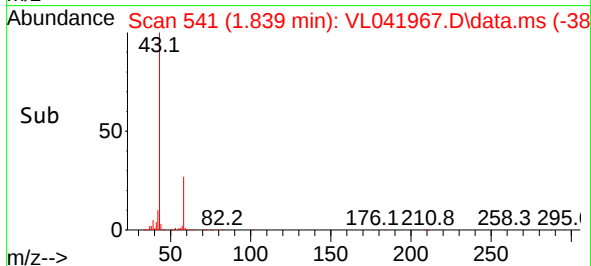
Instrument :
MSVOA_L
ClientSampleId :
IA1



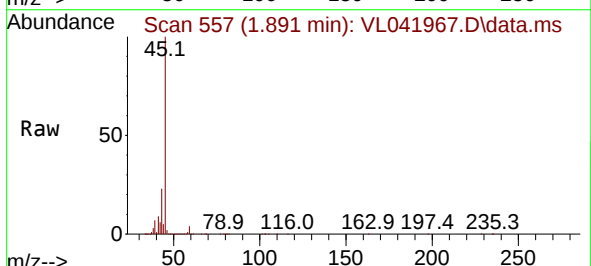
Tgt Ion: 43 Resp: 30444
Ion Ratio Lower Upper
43 100
58 24.4 21.9 32.9

Manual Integrations
APPROVED

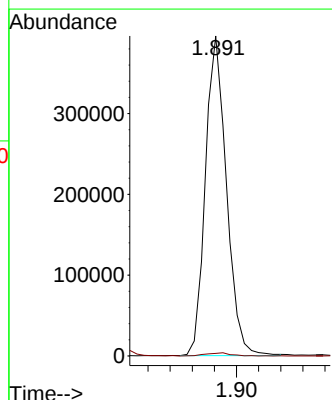
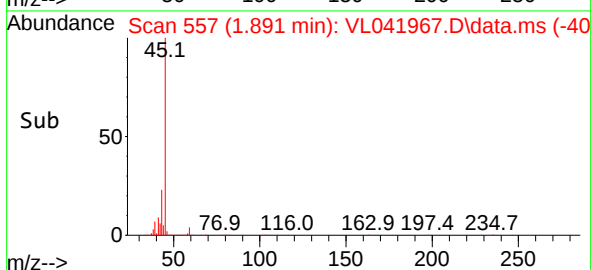
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

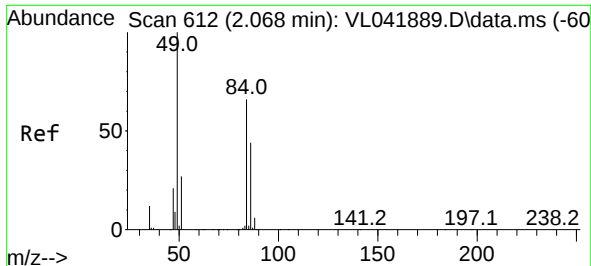


#19
Isopropyl Alcohol
Concen: 24.513 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



Tgt Ion: 45 Resp: 262017
Ion Ratio Lower Upper
45 100
58 28.3 35.0 52.6#





#20

Methylene Chloride

Concen: 0.319 ppbv

RT: 2.069 min Scan# 612

Delta R.T. 0.000 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

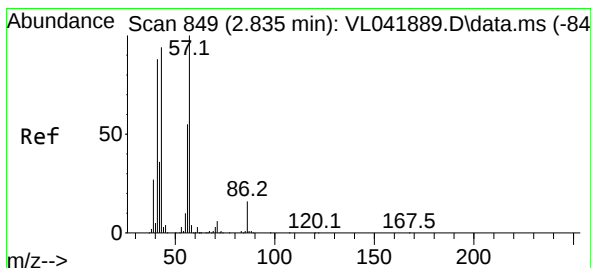
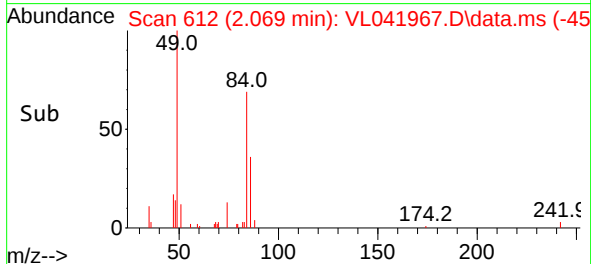
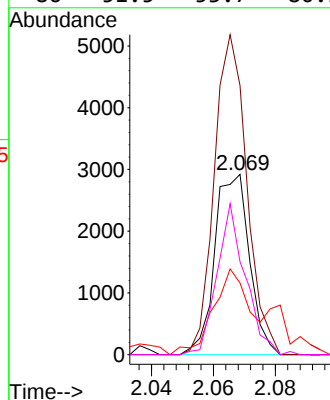
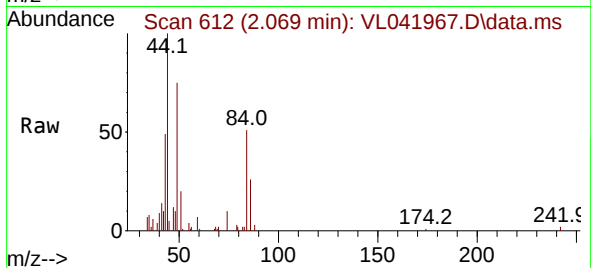
Tgt Ion: 84 Resp: 2279

Ion	Ratio	Lower	Upper
84	100		
49	149.2	123.1	184.7
51	37.3	35.8	53.8
86	51.5	53.7	80.5#

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#26

Hexane

Concen: 0.766 ppbv

RT: 2.832 min Scan# 848

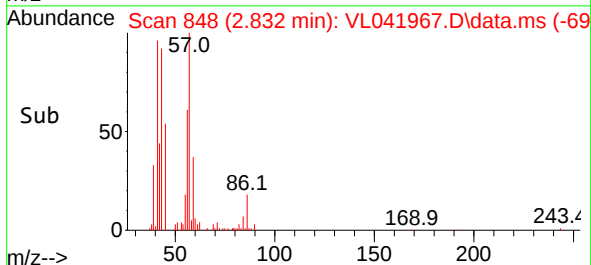
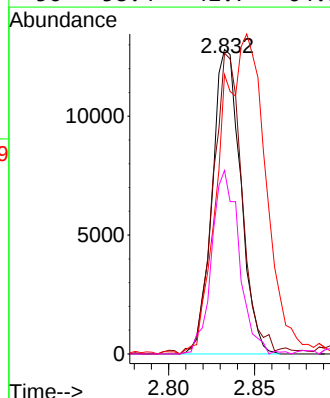
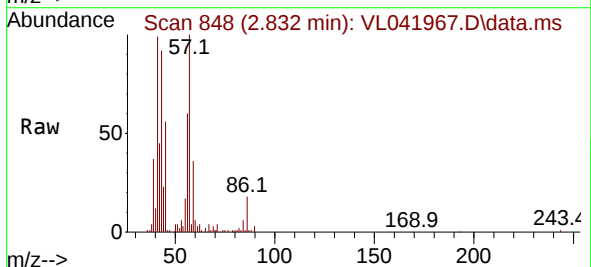
Delta R.T. -0.003 min

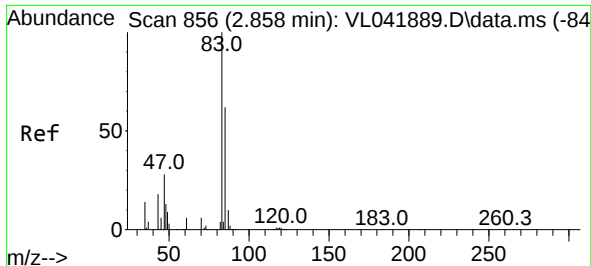
Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Tgt Ion: 57 Resp: 14728

Ion	Ratio	Lower	Upper
57	100		
41	102.6	73.8	110.8
43	167.7	197.3	295.9#
56	58.4	42.7	64.1





#29

Chloroform

Concen: 0.371 ppbv

RT: 2.855 min Scan# 855

Delta R.T. -0.003 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 83 Resp: 1128

Ion Ratio Lower Upper

83 100

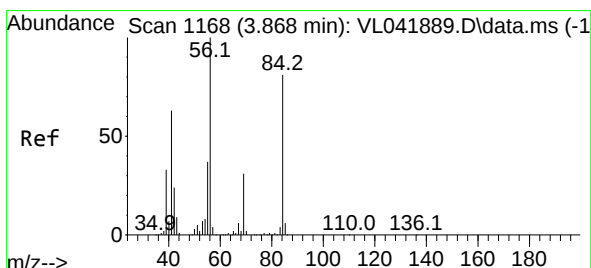
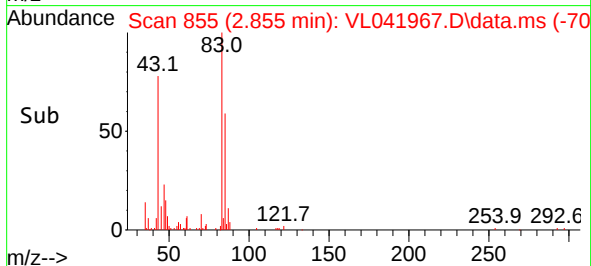
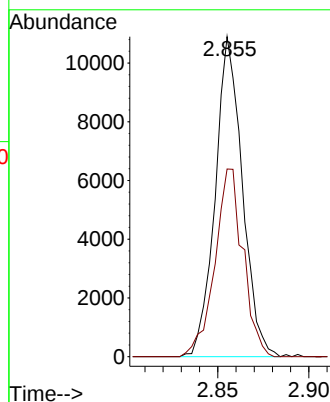
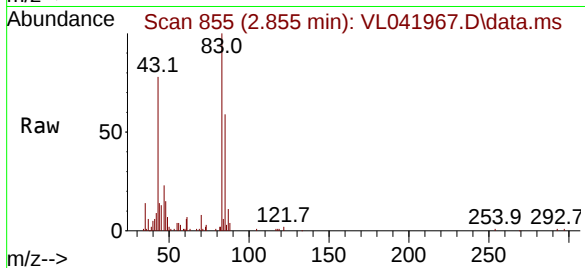
85 58.6 50.1 75.1

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#30

Cyclohexane

Concen: 0.607 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.000 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

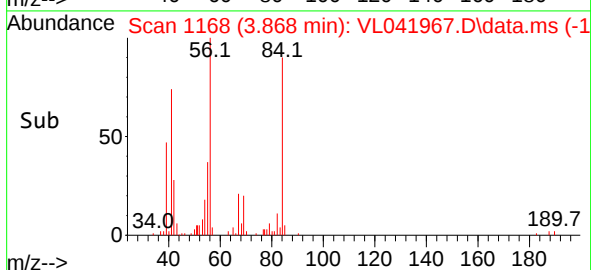
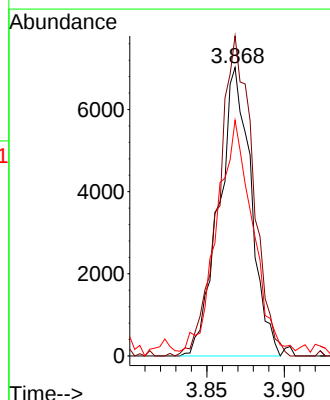
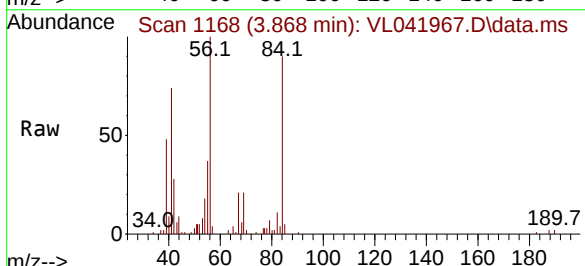
Tgt Ion: 84 Resp: 10115

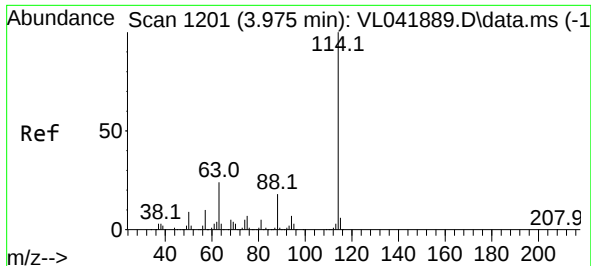
Ion Ratio Lower Upper

84 100

56 119.3 99.3 148.9

41 97.1 64.3 96.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.972 min Scan# 114

Delta R.T. -0.003 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

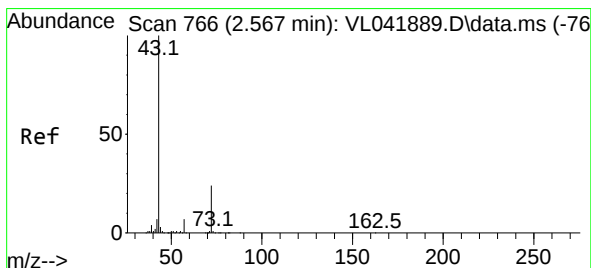
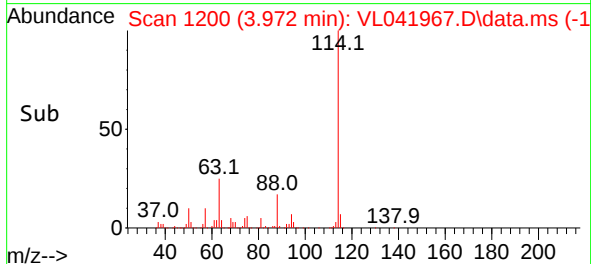
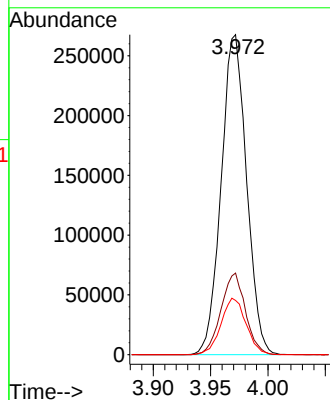
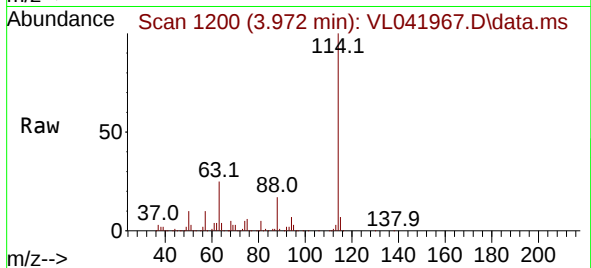
IA1

Tgt Ion:114	Resp: 411838
Ion Ratio	Lower Upper
114 100	
63 24.6	19.8 29.6
88 17.5	14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#34

2-Butanone

Concen: 1.467 ppbv

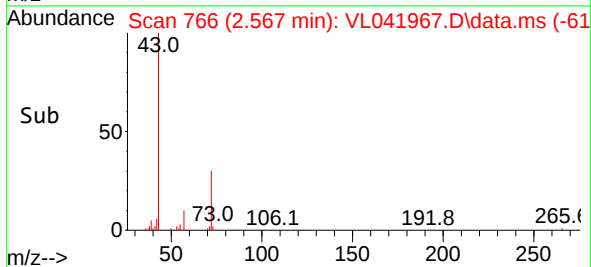
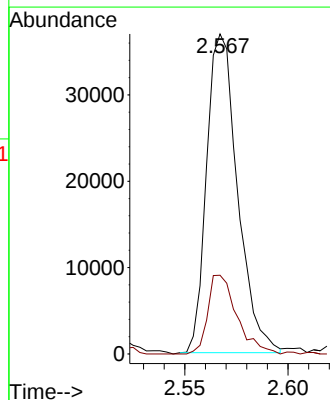
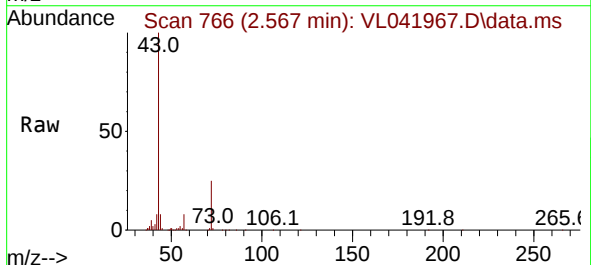
RT: 2.567 min Scan# 766

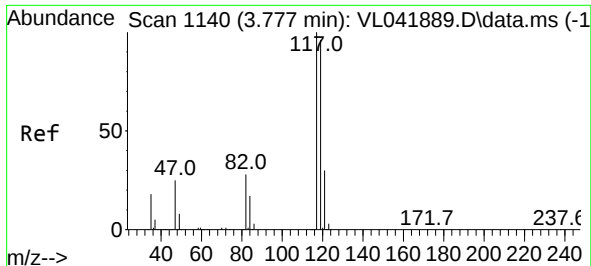
Delta R.T. 0.000 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

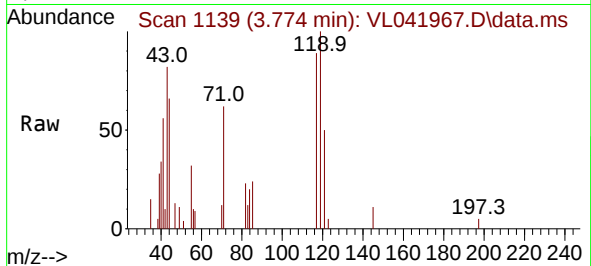
Tgt Ion: 43	Resp: 38426
Ion Ratio	Lower Upper
43 100	
72 23.5	18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.068 ppbv m
RT: 3.774 min Scan# 1139
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

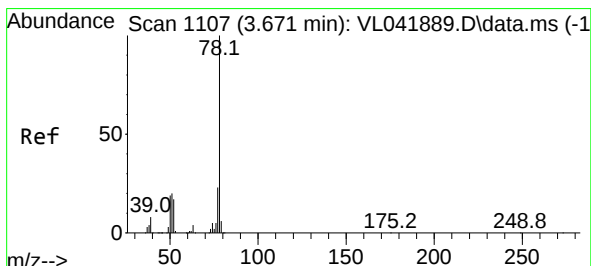
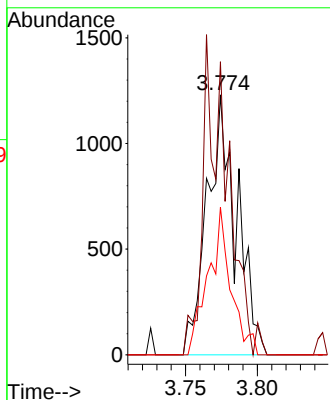
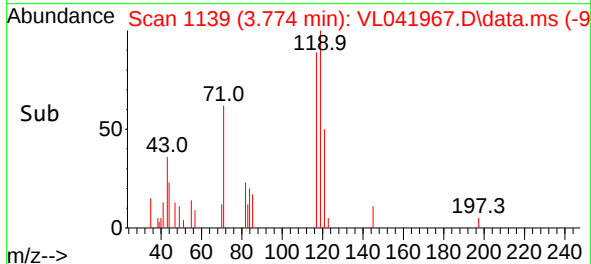
Instrument : MSVOA_L
ClientSampleId : IA1



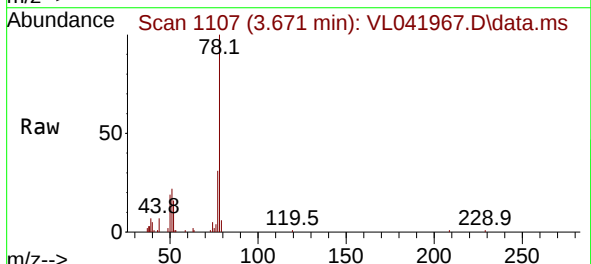
Tgt Ion: 117 Resp: 174
Ion Ratio Lower Upper
117 100
119 112.8 76.9 115.3
121 56.8 23.8 35.6

Manual Integrations
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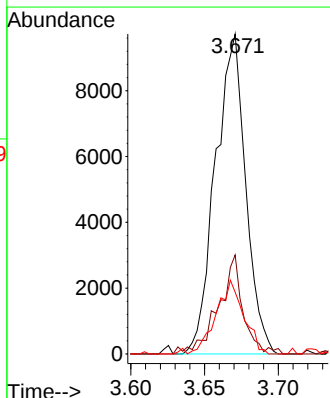
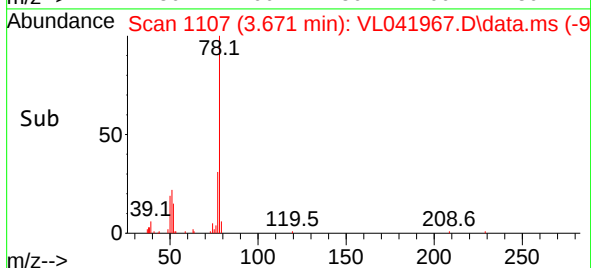
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

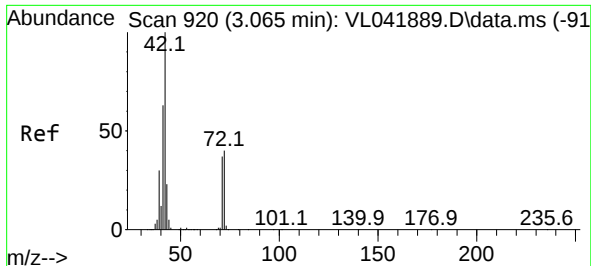


#36
Benzene
Concen: 0.368 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



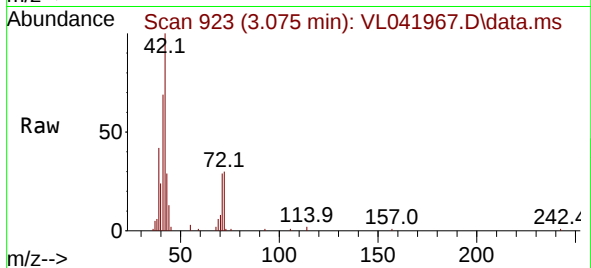
Tgt Ion: 78 Resp: 13894
Ion Ratio Lower Upper
78 100
77 29.2 18.1 27.1#
50 19.3 15.2 22.8





#41
Tetrahydrofuran
Concen: 0.605 ppbv
RT: 3.075 min Scan# 91
Delta R.T. 0.010 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

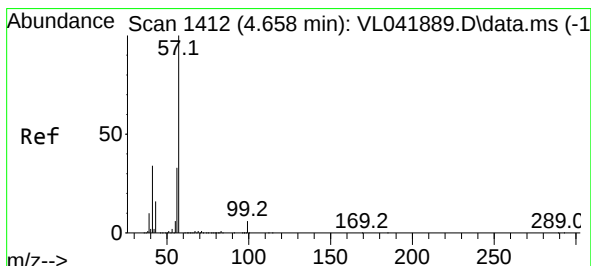
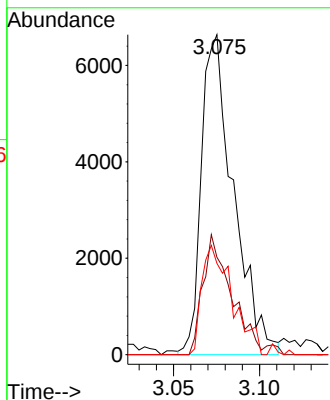
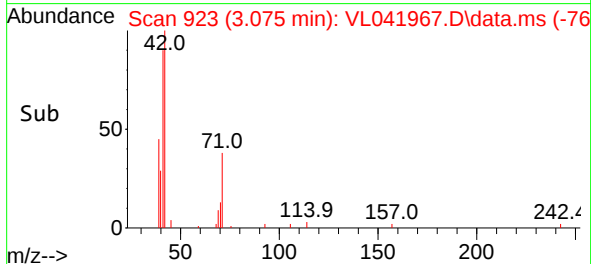
Instrument :
MSVOA_L
ClientSampleId :
IA1



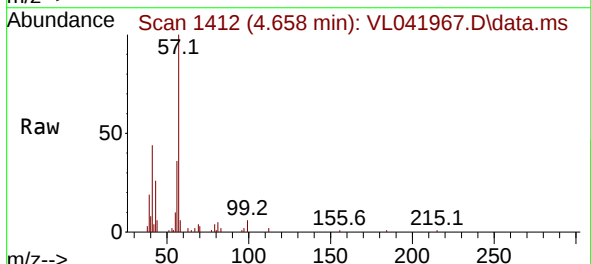
Tgt Ion: 42 Resp: 8618
Ion Ratio Lower Upper
42 100
72 34.4 32.3 48.5
71 33.3 29.9 44.9

Manual Integrations
APPROVED

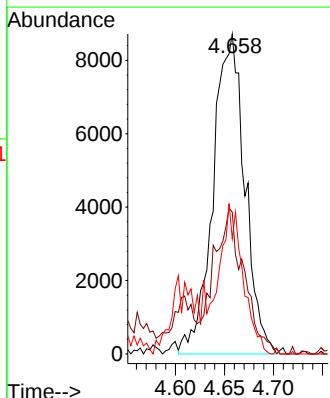
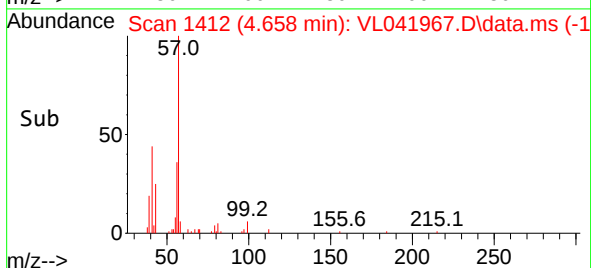
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

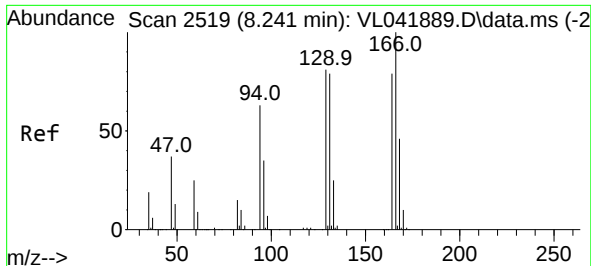


#44
2,2,4-Trimethylpentane
Concen: 0.321 ppbv m
RT: 4.658 min Scan# 1412
Delta R.T. 0.000 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



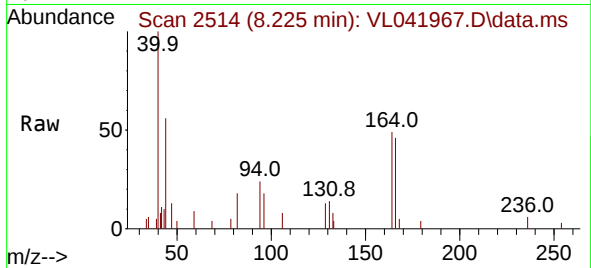
Tgt Ion: 57 Resp: 19641
Ion Ratio Lower Upper
57 100
41 56.5 26.6 40.0#
56 40.5 25.4 38.2#





#52
Tetrachloroethene
Concen: 0.080 ppbv m
RT: 8.225 min Scan# 2104
Delta R.T. -0.016 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

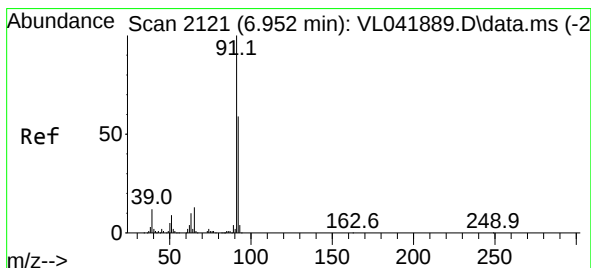
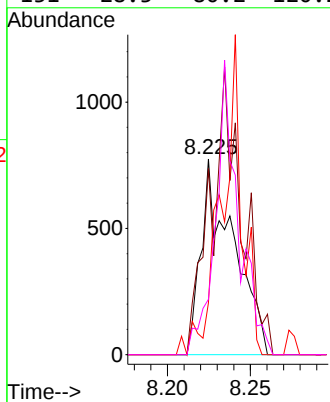
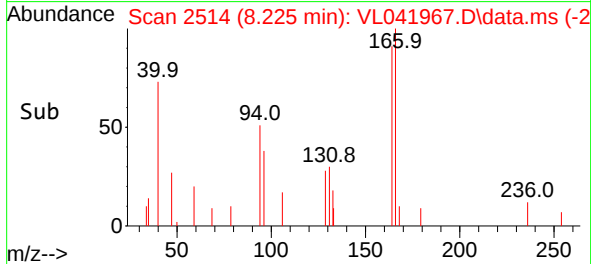
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 1044
Ion Ratio Lower Upper
164 100
166 95.1 100.8 151.2
129 26.5 82.0 123.0
131 28.3 80.2 120.2

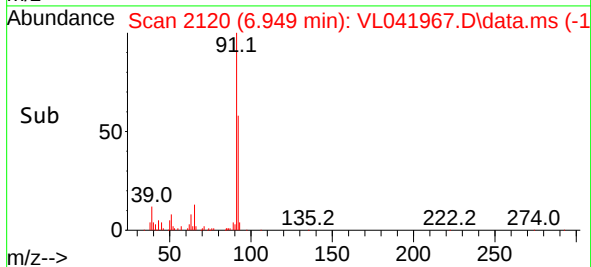
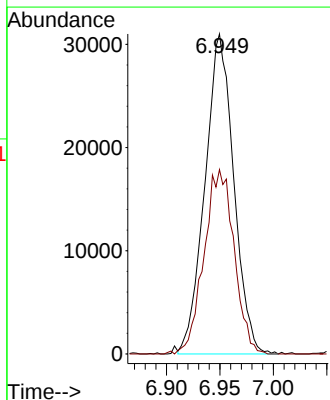
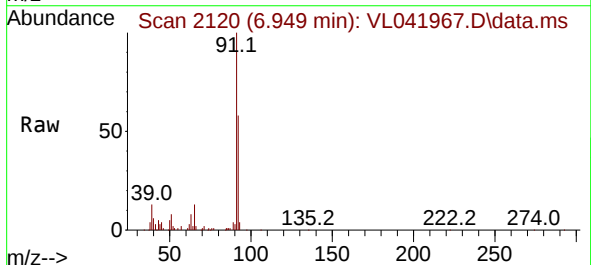
Manual Integrations
APPROVED

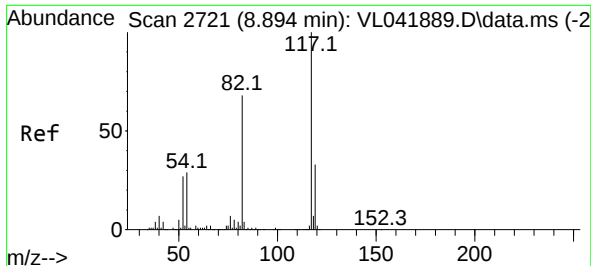
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#53
Toluene
Concen: 1.415 ppbv
RT: 6.949 min Scan# 2120
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

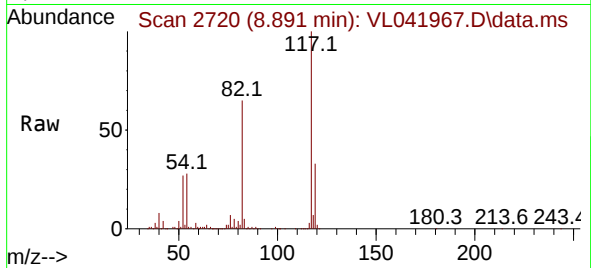
Tgt Ion: 91 Resp: 58221
Ion Ratio Lower Upper
91 100
92 60.1 47.4 71.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2721
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

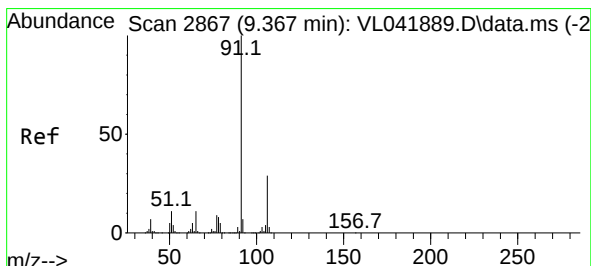
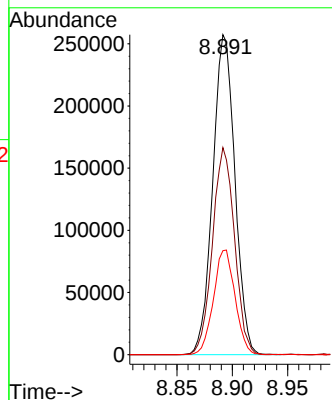
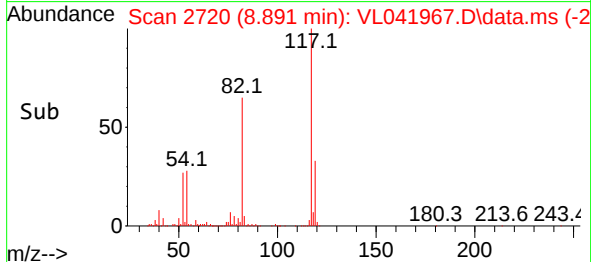
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:117 Resp: 35872
Ion Ratio Lower Upper
117 100
82 64.5 54.2 81.4
119 32.0 25.0 37.6

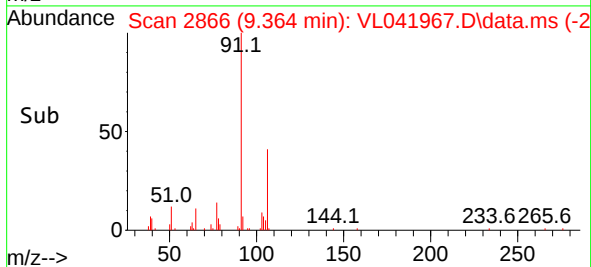
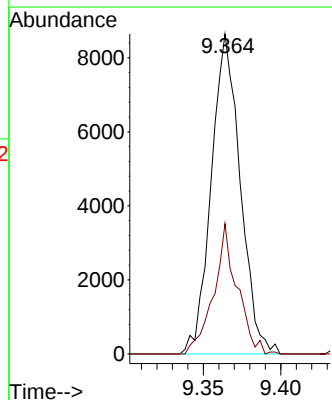
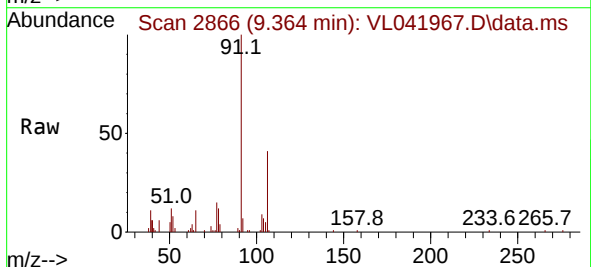
Manual Integrations
APPROVED

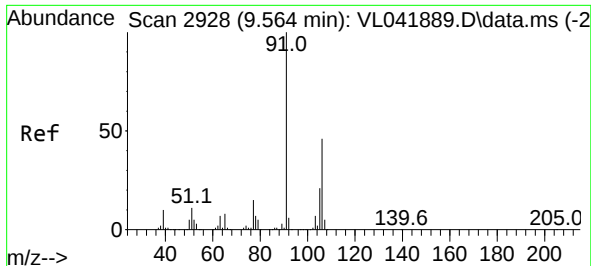
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#58
Ethyl Benzene
Concen: 0.201 ppbv
RT: 9.364 min Scan# 2866
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

Tgt Ion: 91 Resp: 11254
Ion Ratio Lower Upper
91 100
106 40.7 23.1 34.7#





#59

m/p-Xylene

Concen: 1.051 ppbv

RT: 9.539 min Scan# 2928

Delta R.T. -0.026 min

Lab File: VL041967.D

Acq: 03 Feb 2025 16:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 4724

Ion Ratio Lower Upper

91 100

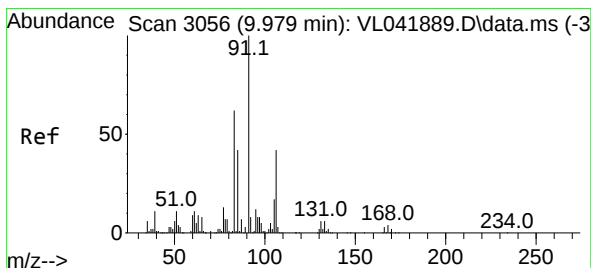
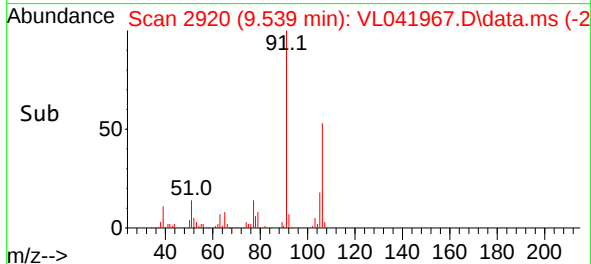
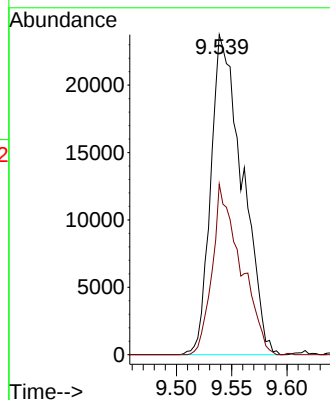
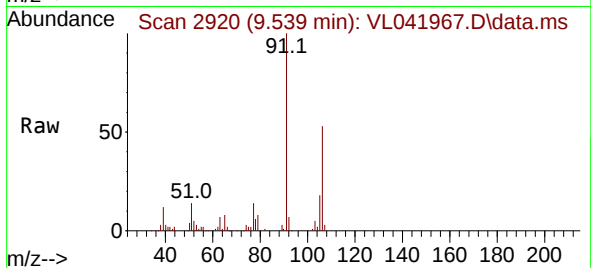
106 47.9 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#60

o-Xylene

Concen: 0.412 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.006 min

Lab File: VL041967.D

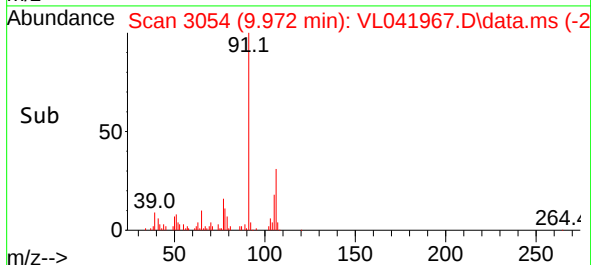
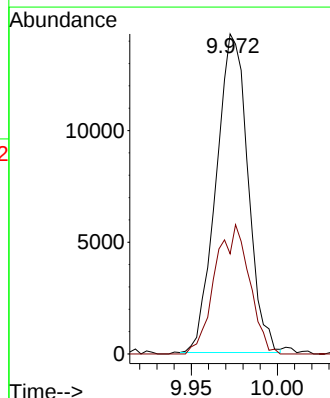
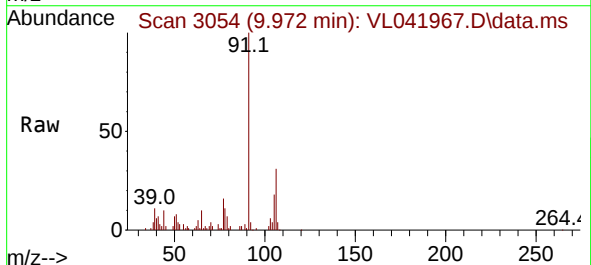
Acq: 03 Feb 2025 16:35

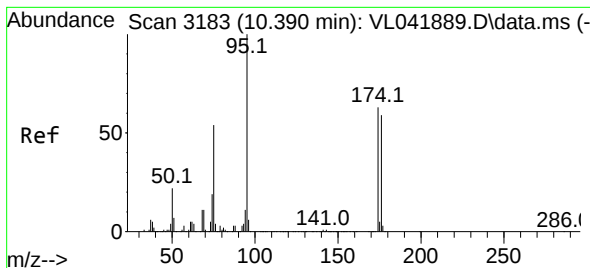
Tgt Ion: 91 Resp: 18366

Ion Ratio Lower Upper

91 100

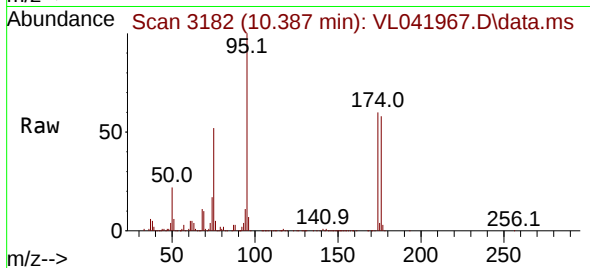
106 43.7 21.3 63.9





#68
1-Bromo-4-Fluorobenzene
Concen: 9.952 ppbv
RT: 10.387 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35

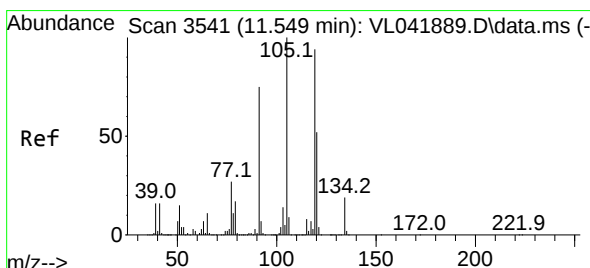
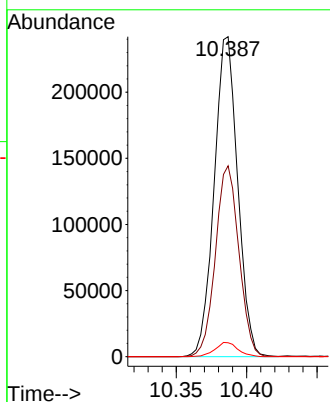
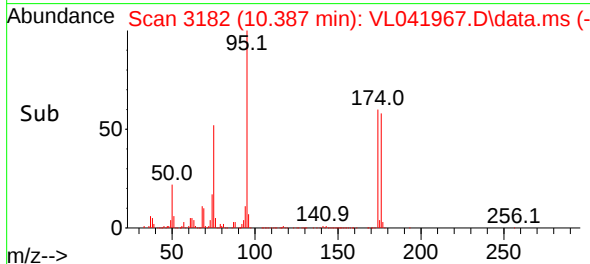
Instrument :
MSVOA_L
ClientSampleId :
IA1



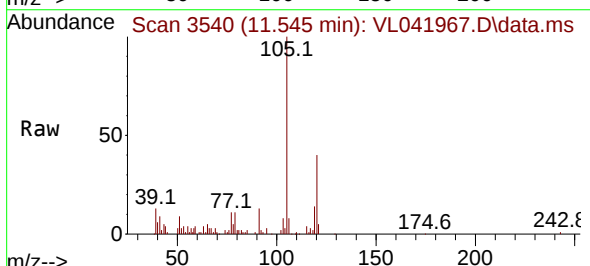
Tgt Ion: 95 Resp: 281200
Ion Ratio Lower Upper
95 100
174 59.5 49.0 73.4
175 4.4 3.8 5.8

Manual Integrations
APPROVED

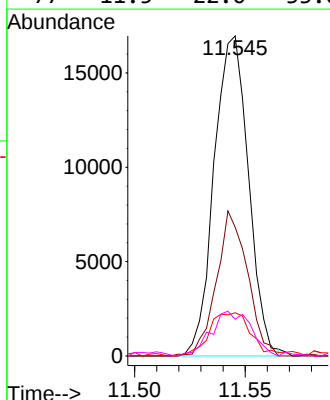
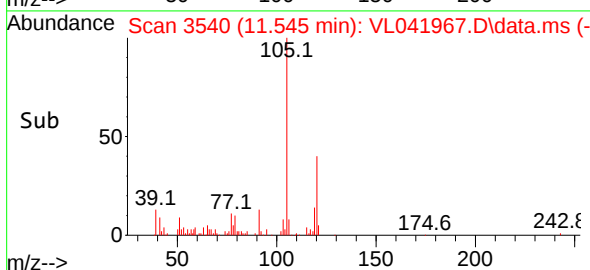
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#74
1,2,4-Trimethylbenzene
Concen: 0.359 ppbv
RT: 11.545 min Scan# 3540
Delta R.T. -0.003 min
Lab File: VL041967.D
Acq: 03 Feb 2025 16:35



Tgt Ion:105 Resp: 18298
Ion Ratio Lower Upper
105 100
120 40.3 41.4 62.2#
91 13.5 60.2 90.2#
77 11.5 22.0 33.0#



Report of Analysis

Client:	GFE LLC	Date Collected:	01/28/25
Project:	2440 Jerome Ave, Bronx NY	Date Received:	01/29/25
Client Sample ID:	OA1	SDG No.:	Q1222
Lab Sample ID:	Q1222-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041969.D	1		02/03/25 17:41	VL020325

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
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.8			
540-36-3	1,4-Difluorobenzene	426000		3.975			
3114-55-4	Chlorobenzene-d5	359000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041969.D
 Acq On : 03 Feb 2025 17:41
 Operator : SY/MD
 Sample : Q1222-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:39:35 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	2.800	49	156518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	426360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	359092	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	270791	9.574	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8982	0.421	ppbv	95
4) Chloromethane	1.538	50	4753	0.593	ppbv #	81
9) Propene	1.489	41	6544m	0.711	ppbv	
11) Trichlorofluoromethane	1.884	101	4332	0.195	ppbv	98
13) Ethanol	1.725	45	267111	396.360	ppbv	85
15) Acetone	1.842	43	98843	5.258	ppbv	98
19) Isopropyl Alcohol	1.894	45	59985	5.382	ppbv #	35
20) Methylene Chloride	2.072	84	2865	0.386	ppbv #	88
26) Hexane	2.836	57	2731	0.136	ppbv #	68
34) 2-Butanone	2.577	43	10009	0.369	ppbv	100
35) Carbon Tetrachloride	3.781	117	1954	0.073	ppbv #	67
36) Benzene	3.671	78	8262	0.211	ppbv #	89
53) Toluene	6.956	91	6774	0.159	ppbv	99

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

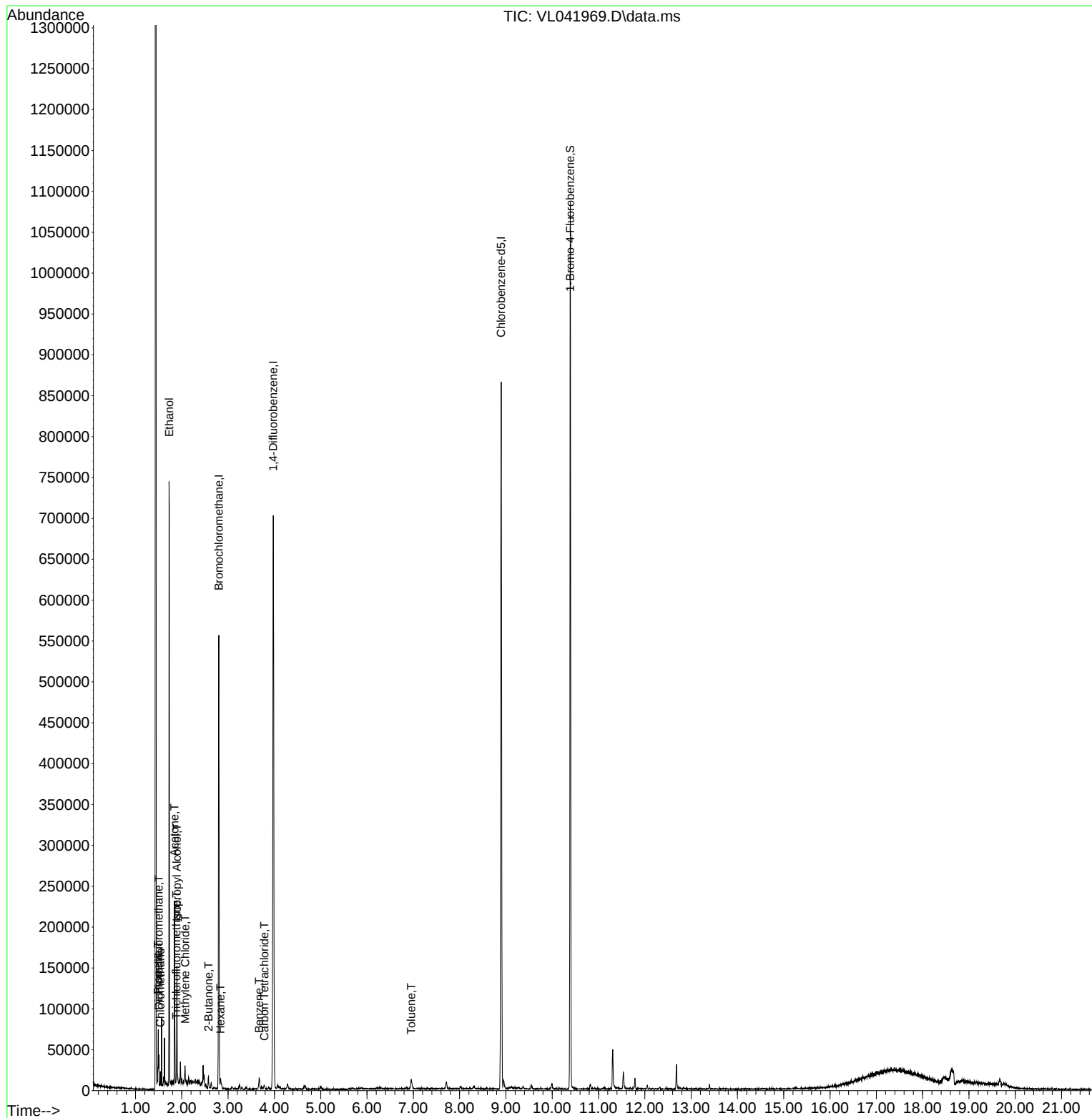
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Data File : VL041969.D
Acq On : 03 Feb 2025 17:41
Operator : SY/MD
Sample : Q1222-03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

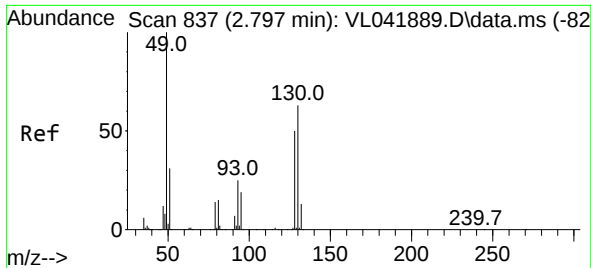
Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025

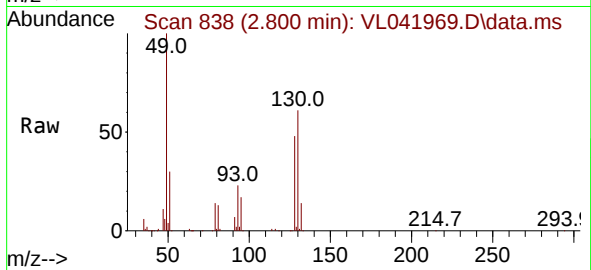
Quant Time: Feb 04 02:39:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Jan 14 23:15:42 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 837
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

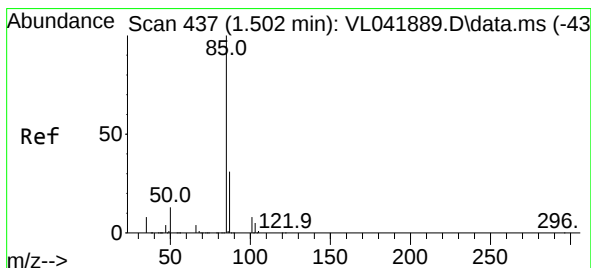
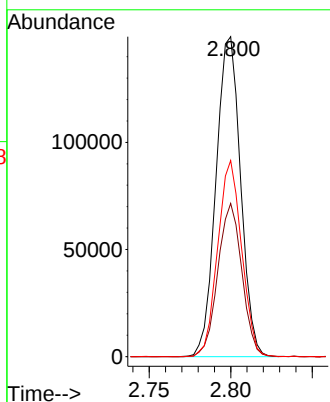
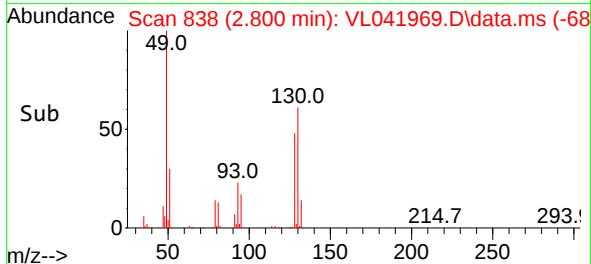
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 156518
Ion Ratio Lower Upper
49 100
128 46.9 24.3 73.0
130 59.7 31.1 93.2

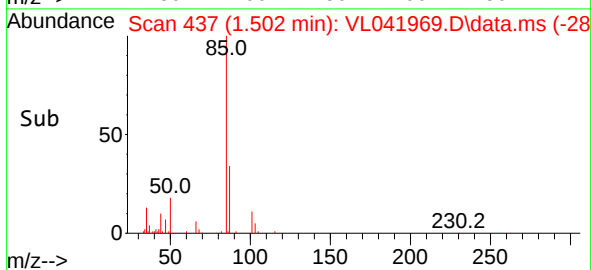
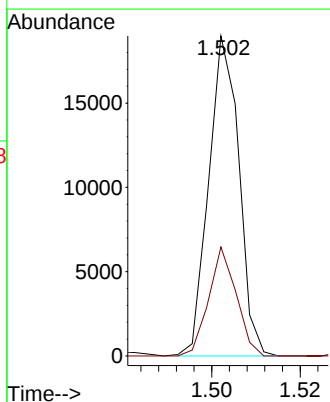
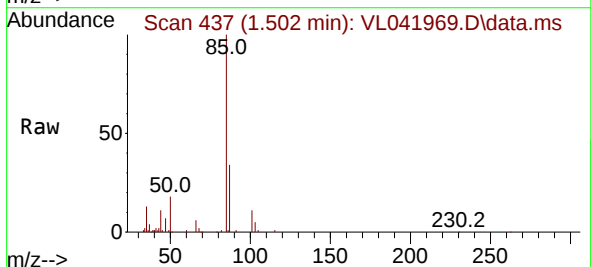
Manual Integrations
APPROVED

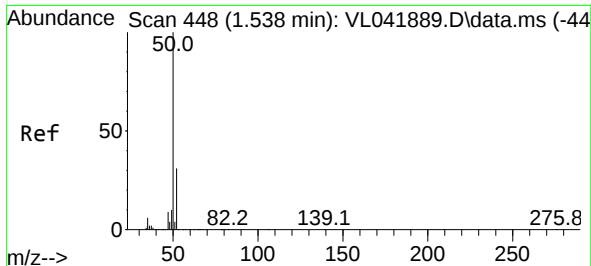
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 85 Resp: 8982
Ion Ratio Lower Upper
85 100
87 34.0 24.9 37.3





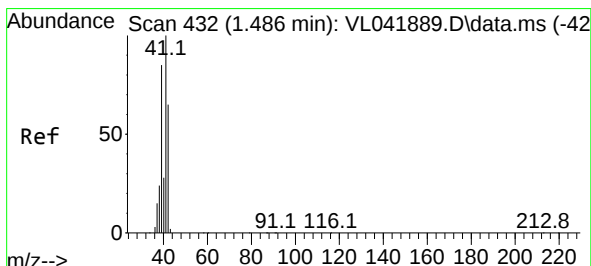
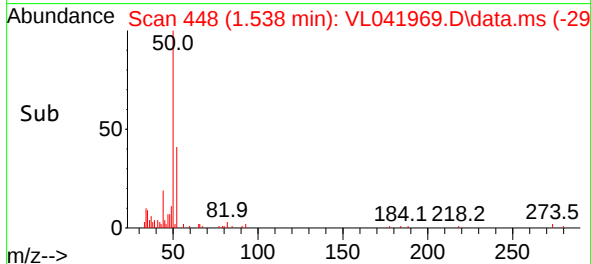
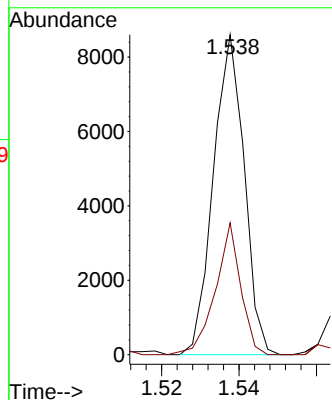
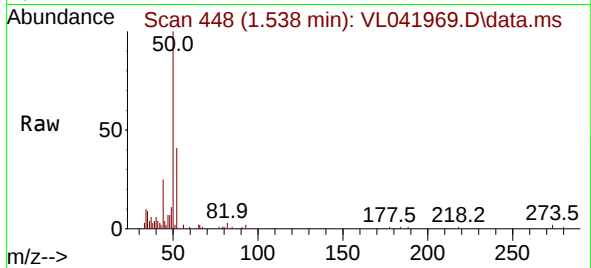
#4
Chloromethane
Concen: 0.593 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 50 Resp: 475
Ion Ratio Lower Upper
50 100
52 41.2 24.6 36.8

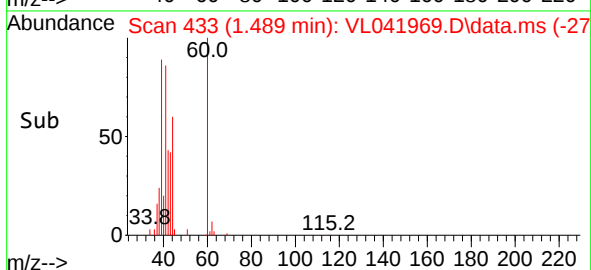
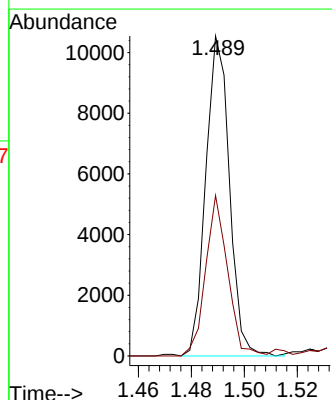
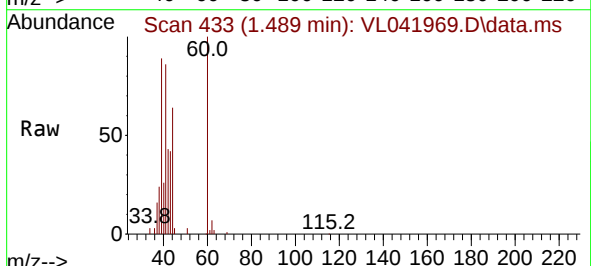
Manual Integrations
APPROVED

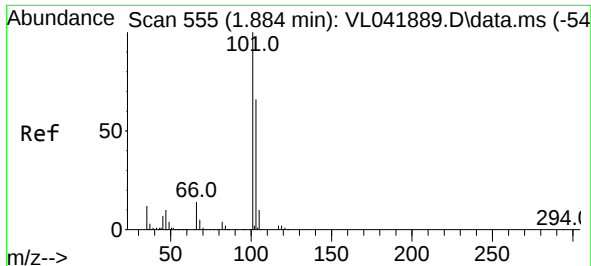
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#9
Propene
Concen: 0.711 ppbv m
RT: 1.489 min Scan# 433
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 41 Resp: 6544
Ion Ratio Lower Upper
41 100
42 46.3 52.0 78.0





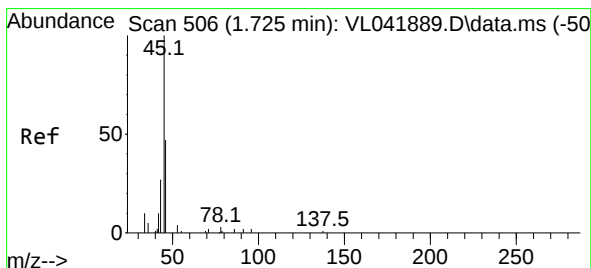
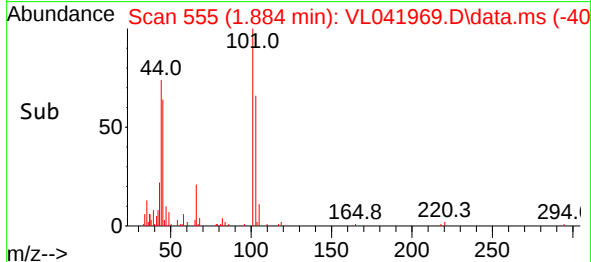
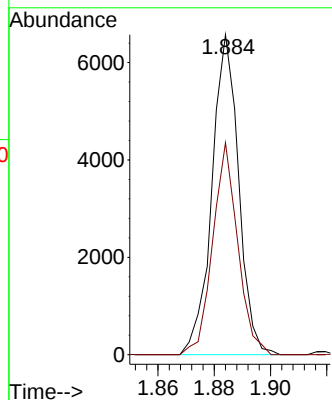
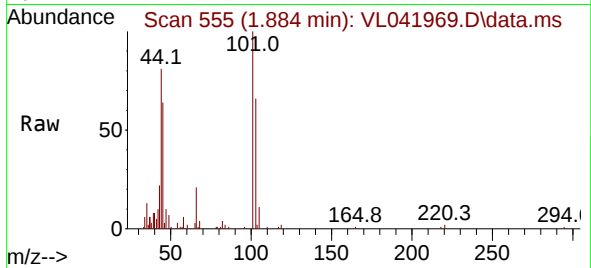
#11
Trichlorofluoromethane
Concen: 0.195 ppbv
RT: 1.884 min Scan# 511
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:101 Resp: 4332
Ion Ratio Lower Upper
101 100
103 68.2 53.1 79.7

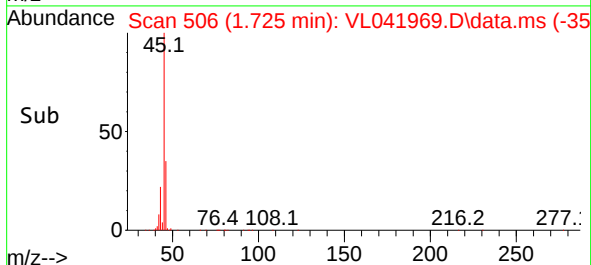
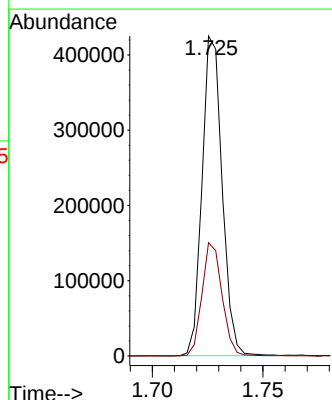
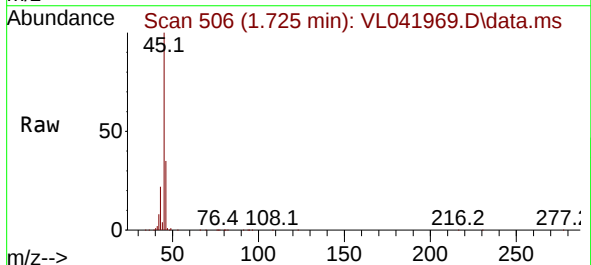
Manual Integrations
APPROVED

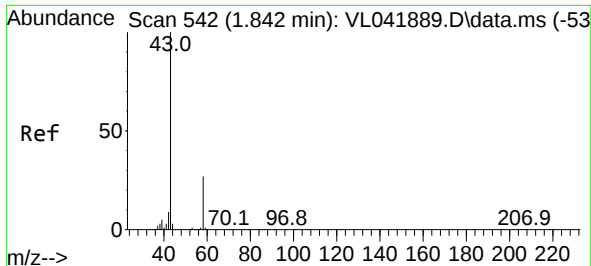
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#13
Ethanol
Concen: 396.360 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

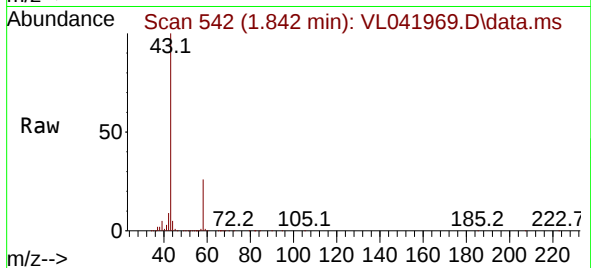
Tgt Ion: 45 Resp: 267111
Ion Ratio Lower Upper
45 100
46 35.7 18.1 72.5





#15
Acetone
Concen: 5.258 ppbv
RT: 1.842 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

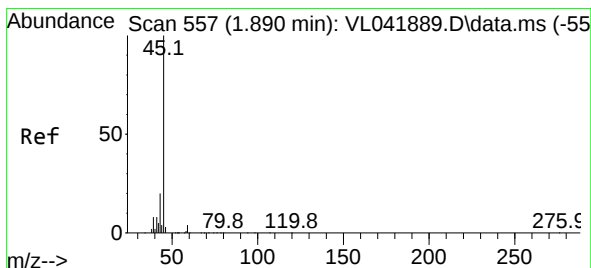
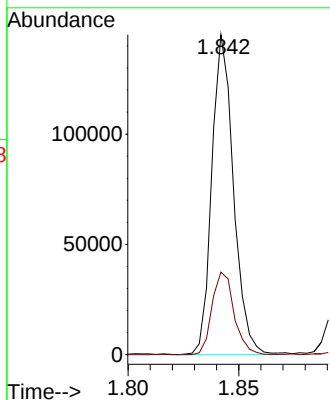
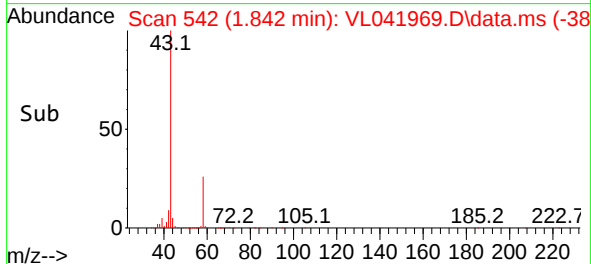
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 43 Resp: 9884
Ion Ratio Lower Upper
43 100
58 26.4 21.9 32.9

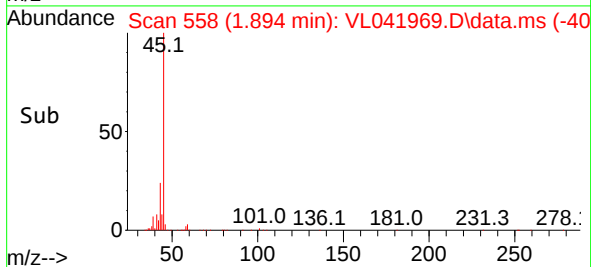
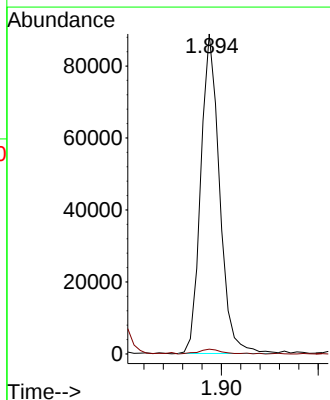
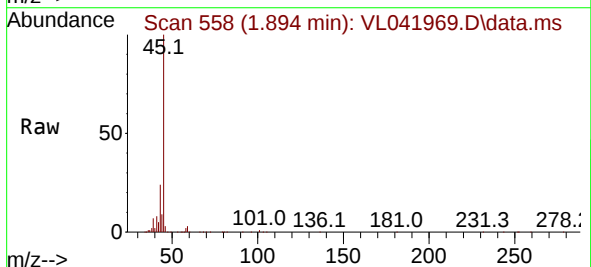
Manual Integrations
APPROVED

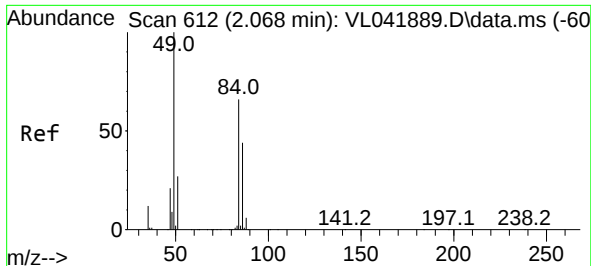
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#19
Isopropyl Alcohol
Concen: 5.382 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 45 Resp: 59985
Ion Ratio Lower Upper
45 100
58 2.1 35.0 52.6#





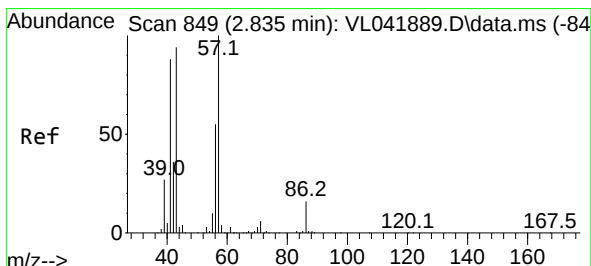
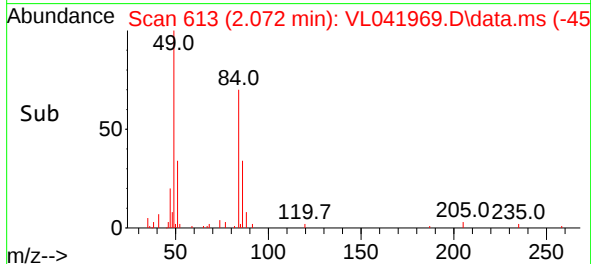
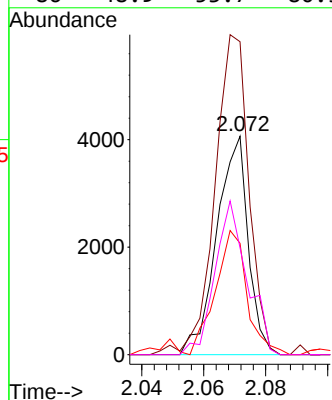
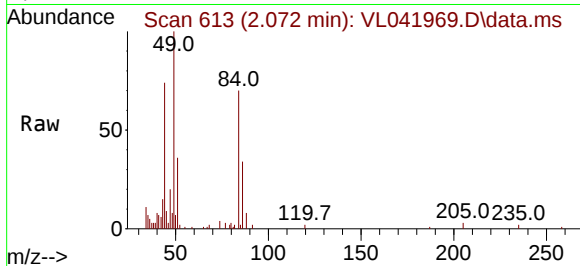
#20
Methylene Chloride
Concen: 0.386 ppbv
RT: 2.072 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84	Resp: 286
Ion Ratio	Lower Upper
84 100	
49 143.2	123.1 184.7
51 49.7	35.8 53.8
86 48.9	53.7 80.5

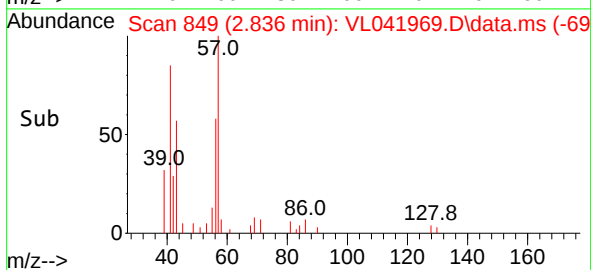
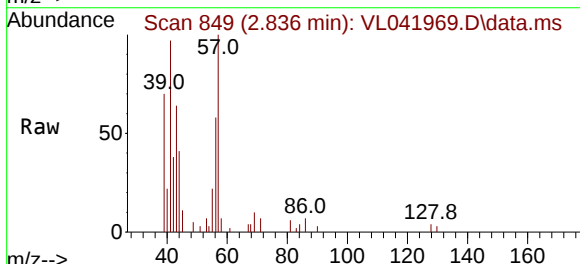
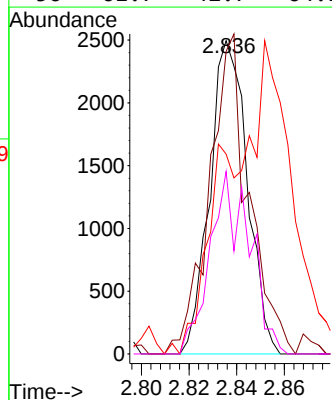
Manual Integrations
APPROVED

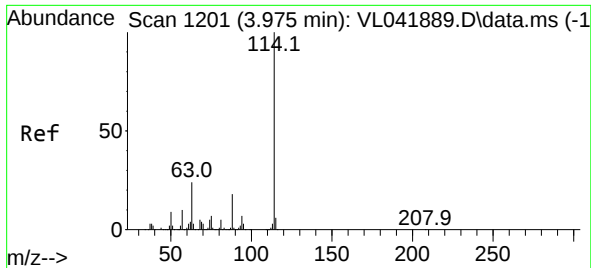
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#26
Hexane
Concen: 0.136 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 57	Resp: 2731
Ion Ratio	Lower Upper
57 100	
41 108.8	73.8 110.8
43 173.7	197.3 295.9#
56 61.7	42.7 64.1





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.975 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL041969.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_L

ClientSampleId :

OA1

Tgt Ion:114 Resp: 426360

Ion Ratio Lower Upper

114 100

63 24.1 19.8 29.6

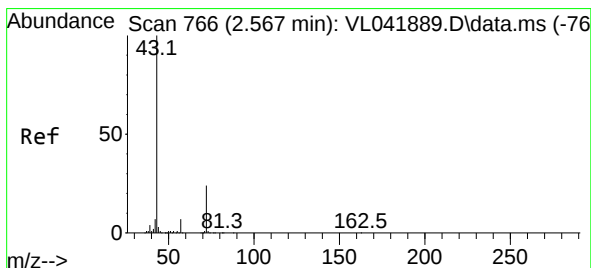
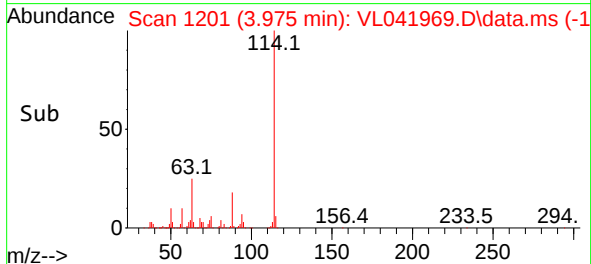
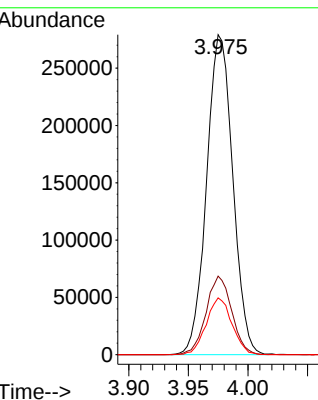
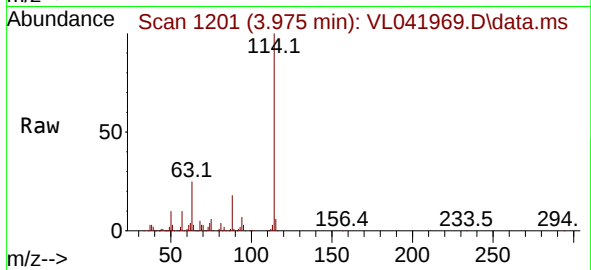
88 17.5 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025

Supervised By :Mahesh Dadoda 02/04/2025



#34

2-Butanone

Concen: 0.369 ppbv

RT: 2.577 min Scan# 769

Delta R.T. 0.010 min

Lab File: VL041969.D

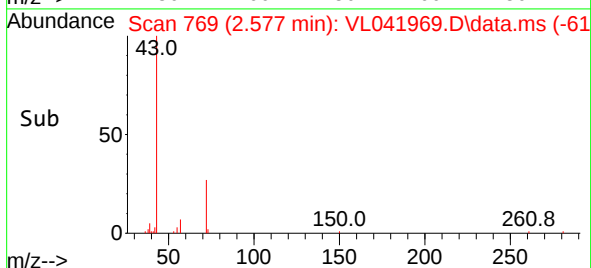
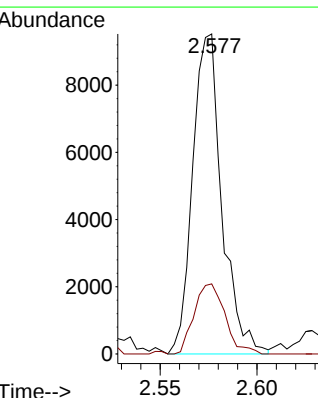
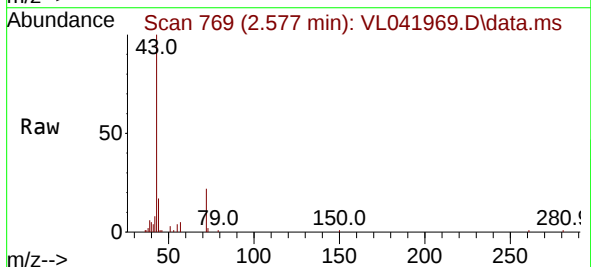
Acq: 03 Feb 2025 17:41

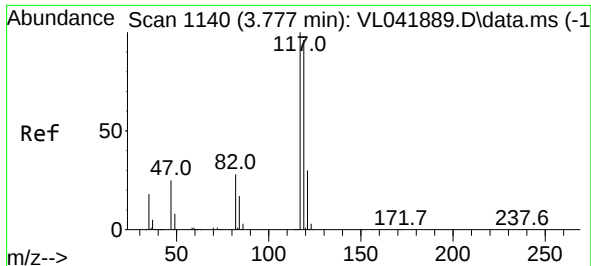
Tgt Ion: 43 Resp: 10009

Ion Ratio Lower Upper

43 100

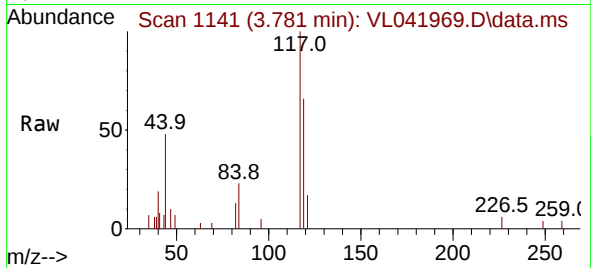
72 23.1 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.073 ppbv
RT: 3.781 min Scan# 1141
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

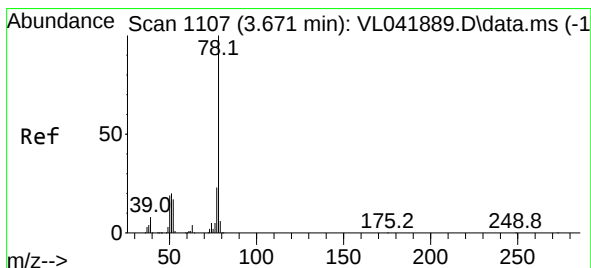
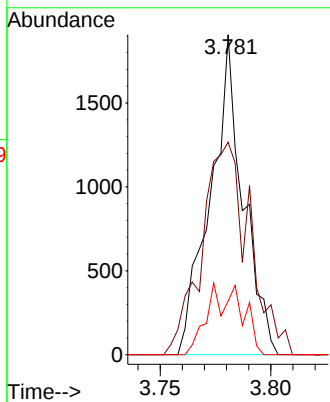
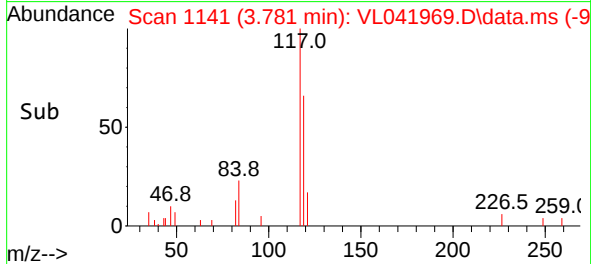
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 117 Resp: 1954
Ion Ratio Lower Upper
117 100
119 61.2 76.9 115.3
121 16.8 23.8 35.6

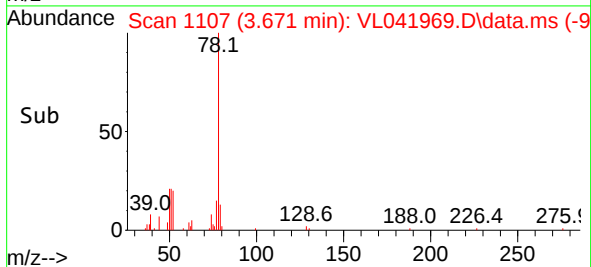
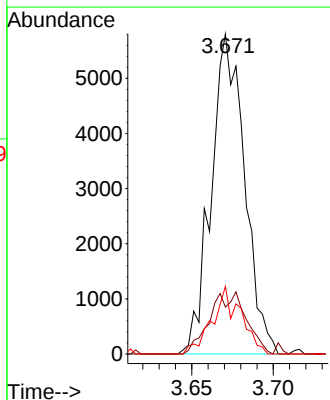
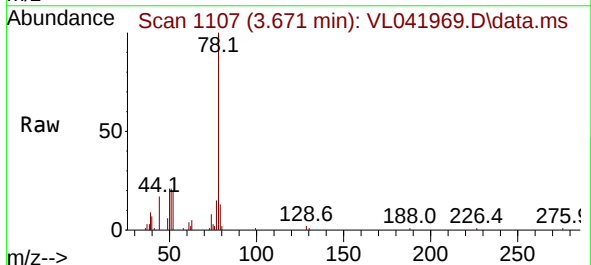
Manual Integrations
APPROVED

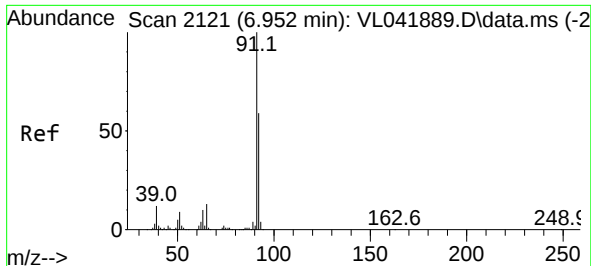
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#36
Benzene
Concen: 0.211 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

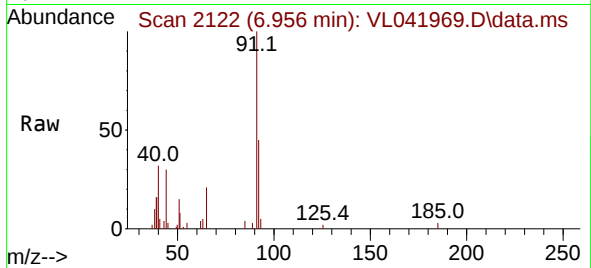
Tgt Ion: 78 Resp: 8262
Ion Ratio Lower Upper
78 100
77 14.6 18.1 27.1
50 21.1 15.2 22.8





#53
Toluene
Concen: 0.159 ppbv
RT: 6.956 min Scan# 2121
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

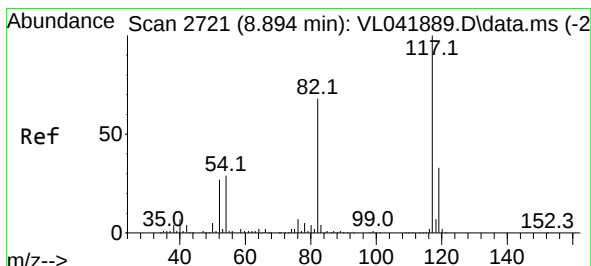
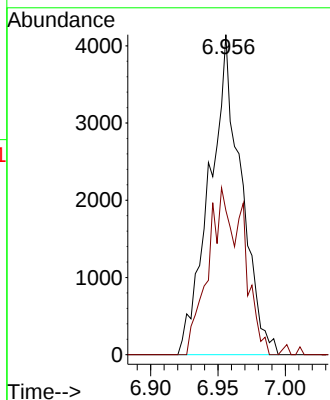
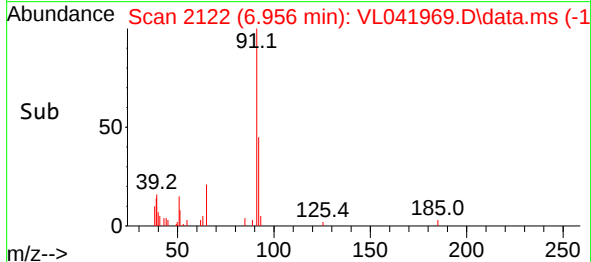
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 91 Resp: 6774
Ion Ratio Lower Upper
91 100
92 58.8 47.4 71.0

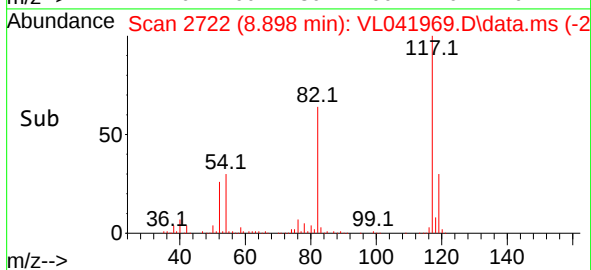
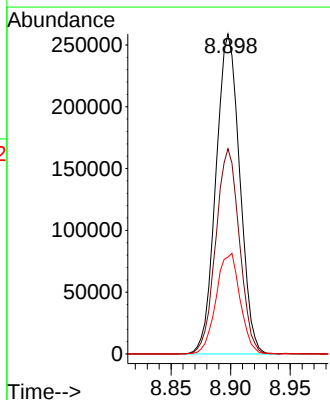
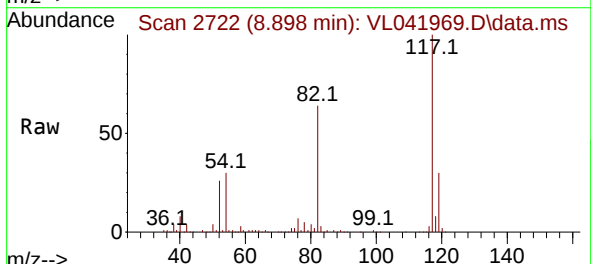
Manual Integrations
APPROVED

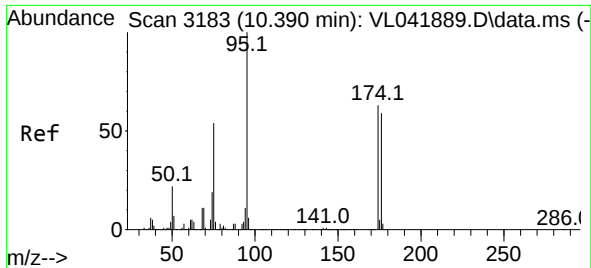
Reviewed By :Semsettin Yesilyurt 02/04/2025
Supervised By :Mahesh Dadoda 02/04/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 2722
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

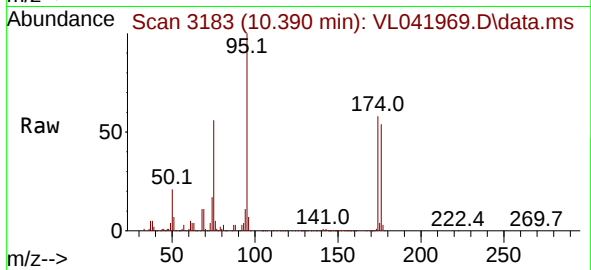
Tgt Ion:117 Resp: 359092
Ion Ratio Lower Upper
117 100
82 63.9 54.2 81.4
119 31.8 25.0 37.6





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.574 ppbv
 RT: 10.390 min Scan# 3183
 Delta R.T. 0.000 min
 Lab File: VL041969.D
 Acq: 03 Feb 2025 17:41

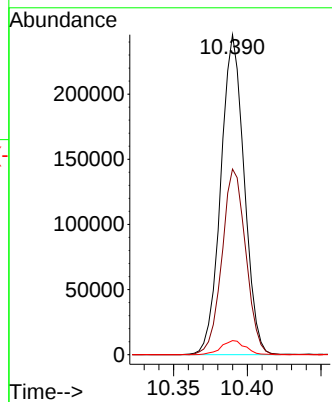
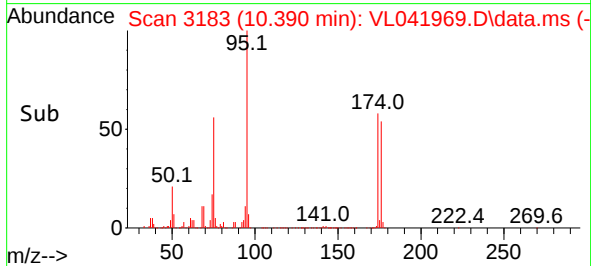
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion:	95	Resp:	27079
Ion Ratio	Lower	Upper	
95	100		
174	59.2	49.0	73.4
175	4.5	3.8	5.8

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1222 SAS No.: Q1222 SDG No.: Q1222
 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
1,1-Dichloroethene	0.458	0.514	0.517	0.520			0.501	5.2
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
Trichloroethene	0.354	0.373	0.374	0.381	0.427	0.286	0.364	11.6
Tetrachloroethene	0.292	0.330	0.329	0.317	0.348	0.320	0.318	6.5
1-Bromo-4-Fluorobenzene	0.782	0.795	0.792	0.784	0.785	0.783	0.788	0.7

* 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

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)
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

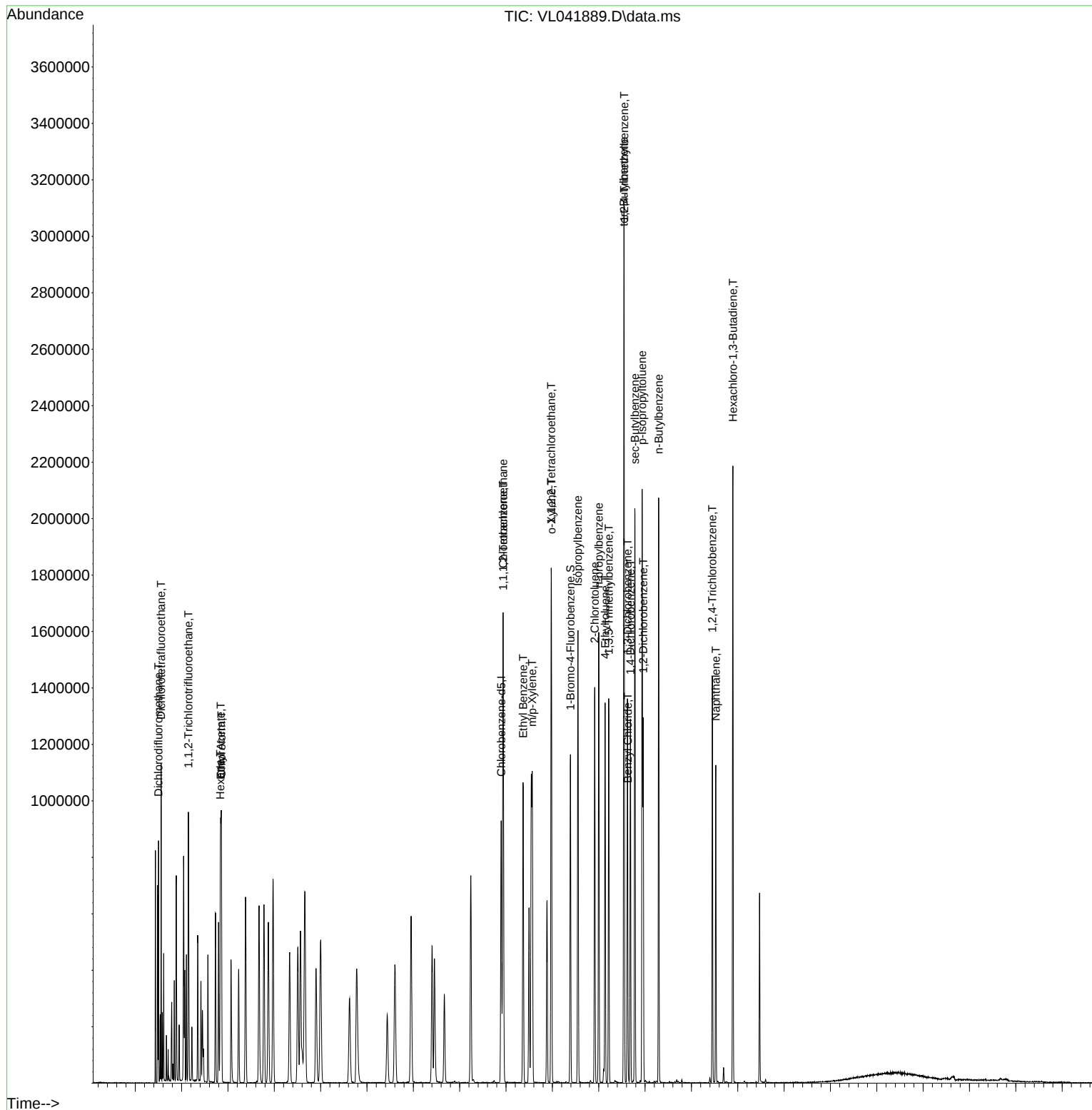
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

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_LFri 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 : 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)

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

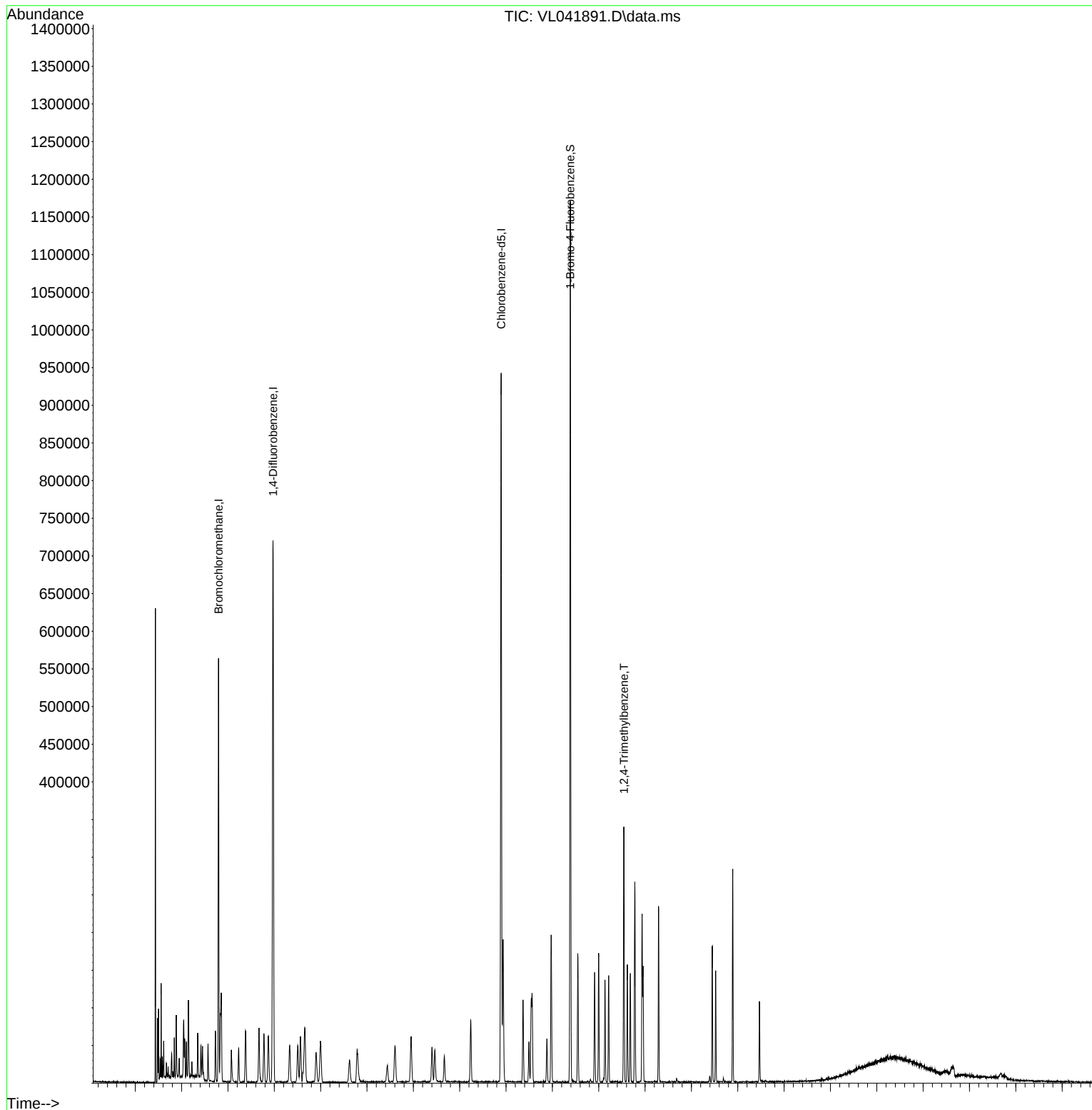
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDIC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC001

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

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

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	2.790	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

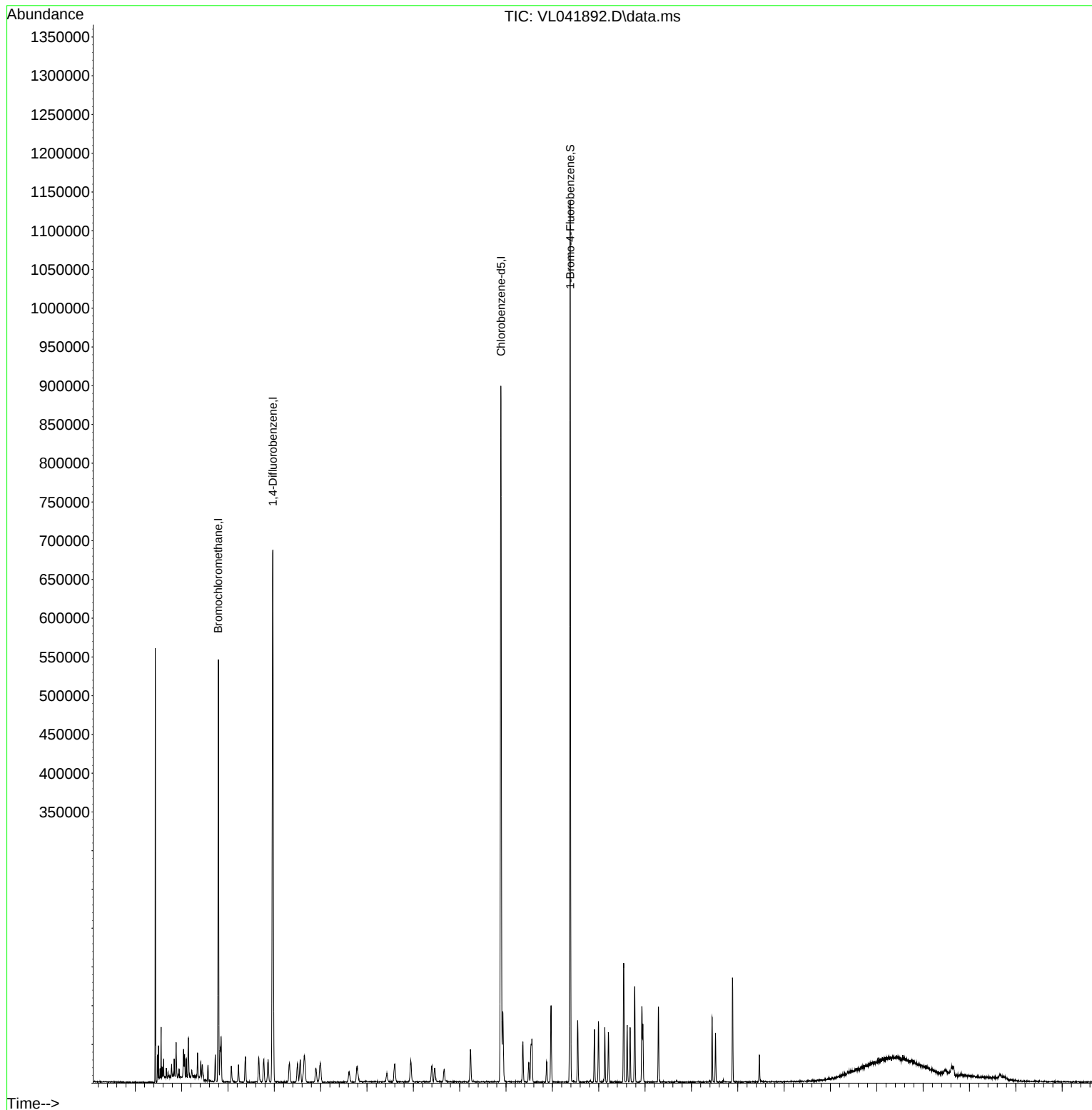
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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_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 : 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

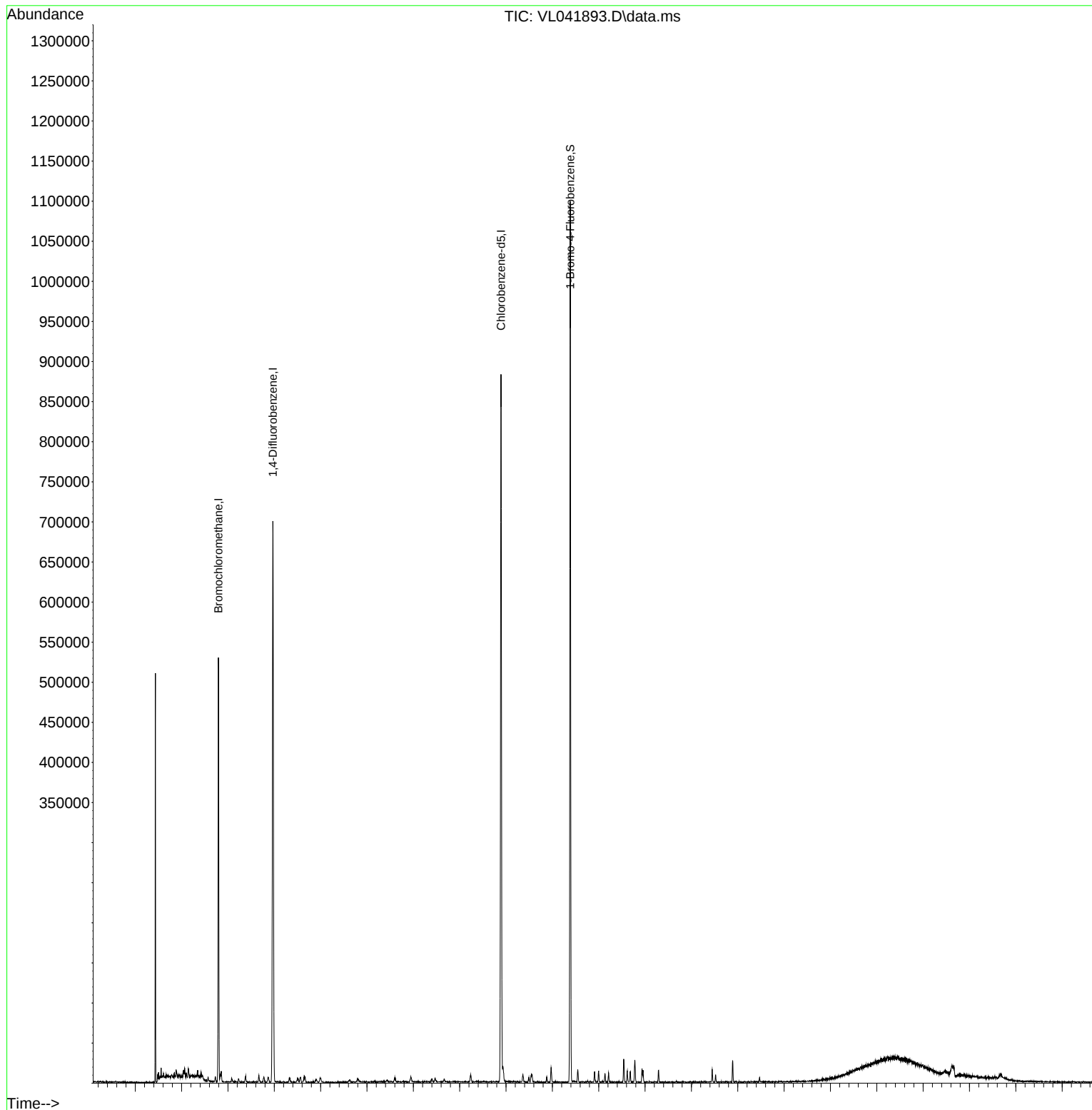
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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 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

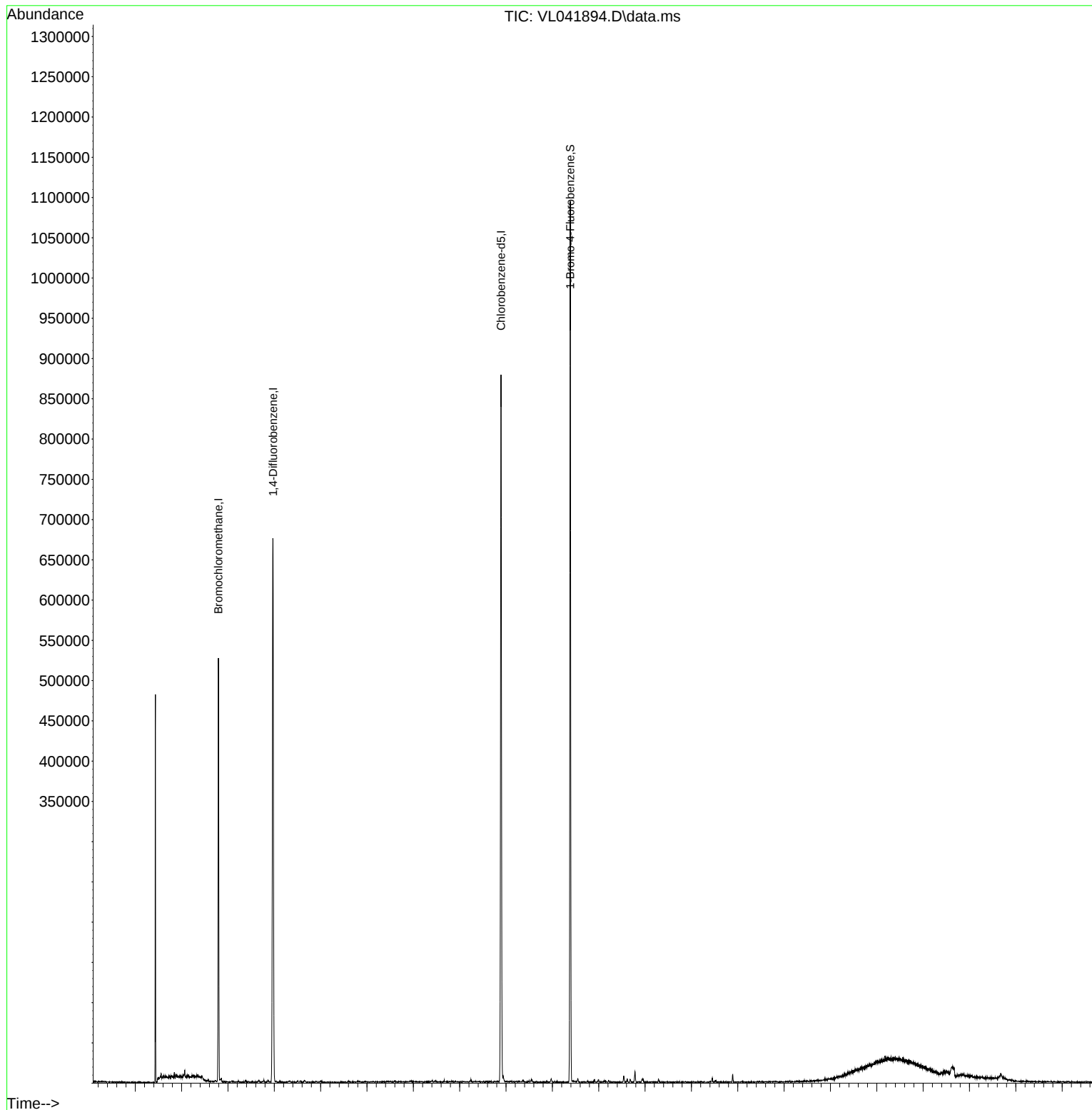
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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 : VSTDICC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC015

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 :
 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)

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

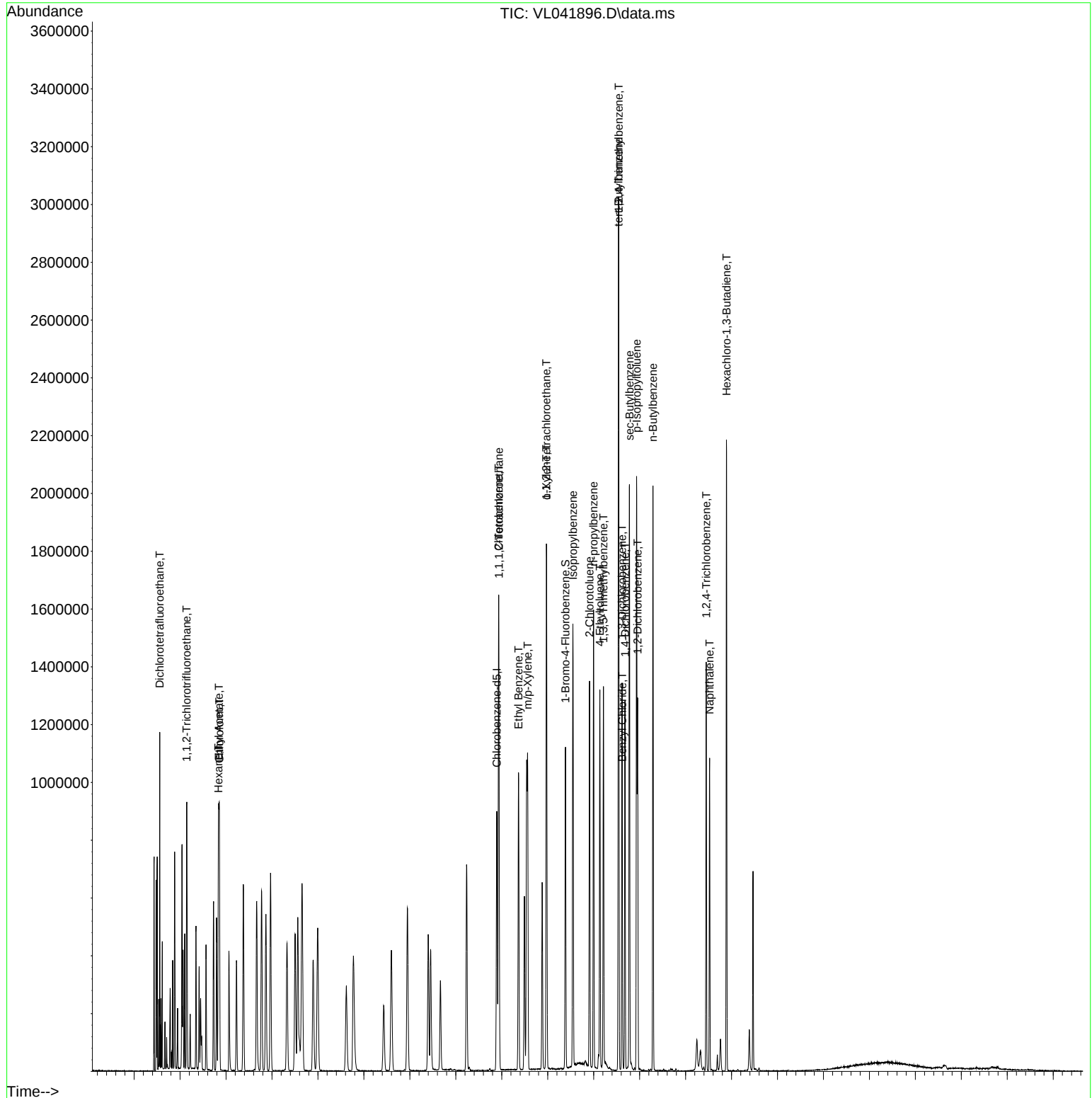
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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_L Fri 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.: Q1222 SAS No.: Q1222 SDG No.: Q1222

Instrument ID: MSVOA_L Calibration Date/Time: 02/03/2025 10:48

Lab File ID: VL041958.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	0.529		1.93	30
1,1-Dichloroethene	0.501	0.473		-5.59	30
cis-1,2-Dichloroethene	1.349	1.325		-1.78	30
1,1,1-Trichloroethane	1.938	2.024		4.44	30
Trichloroethene	0.364	0.408		12.09	30
Tetrachloroethene	0.318	0.325		2.2	30
1-Bromo-4-Fluorobenzene	0.788	0.780		-1.01	30

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 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 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 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	2.791	49	157470	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	429487	10.000	ppbv	-0.01
55) Chlorobenzene-d5	8.885	117	371333	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.381 95 289698 9.905 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	218366	10.181	ppbv	100
3) Chlorodifluoromethane	1.477	51	231387	10.298	ppbv	99
4) Chloromethane	1.535	50	86482	10.721	ppbv	97
5) Vinyl Chloride	1.580	62	83248	10.188	ppbv	98
6) Bromomethane	1.667	94	38248	9.822	ppbv	99
7) Chloroethane	1.706	64	34164	10.747	ppbv	99
8) Dichlorotetrafluoroethane	1.554	85	186350	9.941	ppbv	99
9) Propene	1.483	41	95902	10.361	ppbv	98
10) Heptane	4.985	43	266975	10.790	ppbv	97
11) Trichlorofluoromethane	1.878	101	212261	9.513	ppbv	97
12) 1,1,2-Trichlorotrifluo...	2.140	101	162930	9.317	ppbv	99
13) Ethanol	1.722	45	4416	6.513	ppbv	99
14) Bromoethene	1.784	108	60620	9.468	ppbv	100
15) Acetone	1.836	43	176459	9.330	ppbv	99
16) 1,3-Butadiene	1.609	39	86792	10.224	ppbv	99
17) tert-Butyl alcohol	2.043	59	206522	8.872	ppbv	99
18) 1,1-Dichloroethene	2.036	96	74437	9.444	ppbv	93
19) Isopropyl Alcohol	1.888	45	101008	9.007	ppbv	94
20) Methylene Chloride	2.062	84	62977	8.426	ppbv	95
21) Allyl Chloride	2.098	41	126741	9.677	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	86281	9.700	ppbv	97
23) Vinyl Acetate	2.467	43	84390	9.001	ppbv #	98
24) 1,1-Dichloroethane	2.412	63	171515	9.969	ppbv	100
25) Ethyl Acetate	2.839	43	552271	10.829	ppbv	100
26) Hexane	2.829	57	216097	10.713	ppbv	95
27) Carbon Disulfide	2.153	76	200432	10.041	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	149839	9.719	ppbv	100
29) Chloroform	2.852	83	333879	10.471	ppbv	100
30) Cyclohexane	3.862	84	183180	10.470	ppbv	98
31) cis-1,2-Dichloroethene	2.723	61	208686	9.825	ppbv	95
32) 1,1,1-Trichloroethane	3.370	97	318650	10.444	ppbv	99
34) 2-Butanone	2.561	43	312946	11.458	ppbv	99
35) Carbon Tetrachloride	3.765	117	320703	11.888	ppbv	99
36) Benzene	3.661	78	444350	11.280	ppbv	97
37) 1,2-Dichloroethane	3.221	62	241263	10.905	ppbv	99
38) Trichloroethene	4.551	130	175365	11.218	ppbv	90
39) 1,2-Dichloropropane	4.322	63	155514	11.255	ppbv	98
40) 1,4-Dioxane	4.590	88	74675	10.701	ppbv #	97
41) Tetrahydrofuran	3.059	42	174208	11.736	ppbv	98
42) Bromodichloromethane	4.496	83	344670	11.620	ppbv	96
43) Methyl Methacrylate	4.888	69	156216	10.675	ppbv	95
44) 2,2,4-Trimethylpentane	4.645	57	751181	11.790	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	148089	10.811	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 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 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:30:31 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	5.610	75	202762	11.274	ppbv	99
47) 1,1,2-Trichloroethane	6.590	97	167097	11.410	ppbv	98
48) Dibromochloromethane	7.393	129	269437	11.924	ppbv	99
49) Bromoform	9.487	173	225054	12.125	ppbv	100
50) 4-Methyl-2-Pentanone	5.762	43	428753	11.499	ppbv	98
51) 2-Hexanone	7.445	43	336693	11.752	ppbv #	96
52) Tetrachloroethene	8.231	164	139466	10.211	ppbv	95
53) Toluene	6.940	91	483814	11.275	ppbv	100
54) 1,2-Dibromoethane	7.659	107	229203	11.384	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.931	131	220185	11.885	ppbv	99
57) Chlorobenzene	8.927	112	386374	11.280	ppbv	98
58) Ethyl Benzene	9.358	91	669174	11.531	ppbv	97
59) m/p-Xylene	9.555	91	1106231m	23.782	ppbv	
60) o-Xylene	9.969	91	555194	12.025	ppbv	98
61) Styrene	9.876	104	246355	11.895	ppbv	99
62) Isopropylbenzene	10.542	105	834260	11.677	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	362310	12.280	ppbv	99
64) n-propylbenzene	10.992	120	215585	11.942	ppbv	98
65) tert-Butylbenzene	11.536	119	746398	11.464	ppbv	99
66) Benzyl Chloride	11.620	91	44973	11.160	ppbv	98
67) sec-Butylbenzene	11.772	105	1044912	11.655	ppbv	100
69) p-Isopropyltoluene	11.931	119	867909	11.756	ppbv	99
70) n-Butylbenzene	12.284	91	848499	11.589	ppbv	100
71) 2-Chlorotoluene	10.905	91	615388	11.644	ppbv	98
72) 4-Ethyltoluene	11.128	105	658660	11.926	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	566361	11.613	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	616177	11.666	ppbv	90
75) 1,3-Dichlorobenzene	11.614	146	357966	11.437	ppbv	99
76) 1,4-Dichlorobenzene	11.675	146	352145	11.500	ppbv	100
77) 1,2-Dichlorobenzene	11.950	146	355386	11.457	ppbv	100
78) Hexachloro-1,3-Butadiene	13.886	225	247691	9.729	ppbv	99
79) Naphthalene	13.517	128	553420	10.407	ppbv	99
80) Naphthalene,2-methyl-	14.465	142	173813	6.894	ppbv	97
81) 1,2,4-Trichlorobenzene	13.446	180	251038	9.671	ppbv	98

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

Manual Integrations APPROVED

Quant Time: Feb 04 02:30:31 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\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 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	103	0.00
2 T	Dichlorodifluoromethane	1.362	1.387	-1.8	110	0.00
3	Chlorodifluoromethane	1.427	1.469	-2.9	114	0.00
4	Chloromethane	0.512	0.549	-7.2	115	0.00
5 T	Vinyl Chloride	0.519	0.529	-1.9	117	0.00
6 T	Bromomethane	0.247	0.243	1.6	110	0.00
7	Chloroethane	0.202	0.217	-7.4	116	0.00
8 T	Dichlorotetrafluoroethane	1.190	1.183	0.6	112	0.00
9 T	Propene	0.588	0.609	-3.6	111	0.00
10 T	Heptane	1.571	1.695	-7.9	115	-0.02
11 T	Trichlorofluoromethane	1.417	1.348	4.9	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.110	1.035	6.8	101	0.00
13	Ethanol	0.043	0.028#	34.9#	106	0.00
14 T	Bromoethene	0.407	0.385	5.4	107	0.00
15 T	Acetone	1.201	1.121	6.7	117	0.00
16 T	1,3-Butadiene	0.539	0.551	-2.2	115	0.00
17	tert-Butyl alcohol	1.478	1.312	11.2	97	0.00
18 T	1,1-Dichloroethene	0.501	0.473	5.6	107	0.00
19 T	Isopropyl Alcohol	0.712	0.641	10.0	107	0.00
20 T	Methylene Chloride	0.475	0.400	15.8	106	0.00
21 T	Allyl Chloride	0.832	0.805	3.2	105	0.00
22 T	trans-1,2-Dichloroethene	0.565	0.548	3.0	105	0.00
23 T	Vinyl Acetate	0.595	0.536	9.9	103	0.00
24 T	1,1-Dichloroethane	1.093	1.089	0.4	111	0.00
25 T	Ethyl Acetate	3.239	3.507	-8.3	117	0.00
26 T	Hexane	1.281	1.372	-7.1	113	0.00
27 T	Carbon Disulfide	1.268	1.273	-0.4	105	0.00
28 T	Methyl tert-Butyl Ether	0.979	0.952	2.8	127	0.00
29 T	Chloroform	2.025	2.120	-4.7	115	0.00
30 T	Cyclohexane	1.111	1.163	-4.7	111	0.00
31 T	cis-1,2-Dichloroethene	1.349	1.325	1.8	108	0.00
32 T	1,1,1-Trichloroethane	1.938	2.024	-4.4	110	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	-0.01
34 T	2-Butanone	0.636	0.729	-14.6	116	0.00
35 T	Carbon Tetrachloride	0.628	0.747	-18.9	110	-0.01
36 T	Benzene	0.917	1.035	-12.9	112	0.00
37 T	1,2-Dichloroethane	0.515	0.562	-9.1	109	0.00
38 T	Trichloroethene	0.364	0.408	-12.1	110	-0.01
39 T	1,2-Dichloropropane	0.322	0.362	-12.4	113	0.00
40 T	1,4-Dioxane	0.162	0.174	-7.4	113	-0.02
41 T	Tetrahydrofuran	0.346	0.406	-17.3	112	0.00
42 T	Bromodichloromethane	0.691	0.803	-16.2	112	-0.01
43	Methyl Methacrylate	0.341	0.364	-6.7	103	0.00
44 T	2,2,4-Trimethylpentane	1.484	1.749	-17.9	115	-0.01
45 T	t-1,3-Dichloropropene	0.319	0.345	-8.2	97	0.00
46 T	cis-1,3-Dichloropropene	0.419	0.472	-12.6	101	-0.01
47 T	1,1,2-Trichloroethane	0.341	0.389	-14.1	112	0.00
48 T	Dibromochloromethane	0.526	0.627	-19.2	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 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	0.524	-21.3	109	0.00
50 T	4-Methyl-2-Pentanone	0.868	0.998	-15.0	115	-0.02
51 T	2-Hexanone	0.667	0.784	-17.5	115	0.00
52 T	Tetrachloroethene	0.318	0.325	-2.2	106	0.00
53 T	Toluene	0.999	1.126	-12.7	107	-0.01
54 T	1,2-Dibromoethane	0.469	0.534	-13.9	112	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	0.499	0.593	-18.8	114	0.00
57 T	Chlorobenzene	0.922	1.041	-12.9	114	0.00
58 T	Ethyl Benzene	1.563	1.802	-15.3	108	0.00
59 T	m/p-Xylene	1.253	1.490	-18.9	113	0.00
60 T	o-Xylene	1.243	1.495	-20.3	113	0.00
61 T	Styrene	0.558	0.663	-18.8	105	0.00
62	Isopropylbenzene	1.924	2.247	-16.8	112	0.00
63 T	1,1,2,2-Tetrachloroethane	0.795	0.976	-22.8	121	0.00
64	n-propylbenzene	0.486	0.581	-19.5	115	0.00
65	tert-Butylbenzene	1.753	2.010	-14.7	111	0.00
66 T	Benzyl Chloride	0.109	0.121	-11.0	98	0.00
67	sec-Butylbenzene	2.414	2.814	-16.6	114	0.00
68 S	1-Bromo-4-Fluorobenzene	0.788	0.780	1.0	92	0.00
69	p-Isopropyltoluene	1.988	2.337	-17.6	113	0.00
70	n-Butylbenzene	1.972	2.285	-15.9	112	0.00
71	2-Chlorotoluene	1.423	1.657	-16.4	111	0.00
72 T	4-Ethyltoluene	1.487	1.774	-19.3	112	0.00
73 T	1,3,5-Trimethylbenzene	1.313	1.525	-16.1	112	0.00
74 T	1,2,4-Trimethylbenzene	1.422	1.659	-16.7	114	0.00
75 T	1,3-Dichlorobenzene	0.843	0.964	-14.4	115	0.00
76 T	1,4-Dichlorobenzene	0.825	0.948	-14.9	114	0.00
77 T	1,2-Dichlorobenzene	0.835	0.957	-14.6	117	0.00
78 T	Hexachloro-1,3-Butadiene	0.686	0.667	2.8	106	0.00
79 T	Naphthalene	1.432	1.490	-4.1	110	0.00
80 T	Naphthalene,2-methyl-	0.679	0.468	31.1#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.699	0.676	3.3	105	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 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	103	0.00
2 T	Dichlorodifluoromethane	10.000	10.181	-1.8	110	0.00
3	Chlorodifluoromethane	10.000	10.298	-3.0	114	0.00
4	Chloromethane	10.000	10.721	-7.2	115	0.00
5 T	Vinyl Chloride	10.000	10.188	-1.9	117	0.00
6 T	Bromomethane	10.000	9.822	1.8	110	0.00
7	Chloroethane	10.000	10.747	-7.5	116	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.941	0.6	112	0.00
9 T	Propene	10.000	10.361	-3.6	111	0.00
10 T	Heptane	10.000	10.790	-7.9	115	-0.02
11 T	Trichlorofluoromethane	10.000	9.513	4.9	104	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.317	6.8	101	0.00
13	Ethanol	10.000	6.513	34.9#	106	0.00
14 T	Bromoethene	10.000	9.468	5.3	107	0.00
15 T	Acetone	10.000	9.330	6.7	117	0.00
16 T	1,3-Butadiene	10.000	10.224	-2.2	115	0.00
17	tert-Butyl alcohol	10.000	8.872	11.3	97	0.00
18 T	1,1-Dichloroethene	10.000	9.444	5.6	107	0.00
19 T	Isopropyl Alcohol	10.000	9.007	9.9	107	0.00
20 T	Methylene Chloride	10.000	8.426	15.7	106	0.00
21 T	Allyl Chloride	10.000	9.677	3.2	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.700	3.0	105	0.00
23 T	Vinyl Acetate	10.000	9.001	10.0	103	0.00
24 T	1,1-Dichloroethane	10.000	9.969	0.3	111	0.00
25 T	Ethyl Acetate	10.000	10.829	-8.3	117	0.00
26 T	Hexane	10.000	10.713	-7.1	113	0.00
27 T	Carbon Disulfide	10.000	10.041	-0.4	105	0.00
28 T	Methyl tert-Butyl Ether	10.000	9.719	2.8	127	0.00
29 T	Chloroform	10.000	10.471	-4.7	115	0.00
30 T	Cyclohexane	10.000	10.470	-4.7	111	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.825	1.8	108	0.00
32 T	1,1,1-Trichloroethane	10.000	10.444	-4.4	110	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	-0.01
34 T	2-Butanone	10.000	11.458	-14.6	116	0.00
35 T	Carbon Tetrachloride	10.000	11.888	-18.9	110	-0.01
36 T	Benzene	10.000	11.280	-12.8	112	0.00
37 T	1,2-Dichloroethane	10.000	10.905	-9.0	109	0.00
38 T	Trichloroethene	10.000	11.218	-12.2	110	-0.01
39 T	1,2-Dichloropropane	10.000	11.255	-12.6	113	0.00
40 T	1,4-Dioxane	10.000	10.701	-7.0	113	-0.02
41 T	Tetrahydrofuran	10.000	11.736	-17.4	112	0.00
42 T	Bromodichloromethane	10.000	11.620	-16.2	112	-0.01
43	Methyl Methacrylate	10.000	10.675	-6.8	103	0.00
44 T	2,2,4-Trimethylpentane	10.000	11.790	-17.9	115	-0.01
45 T	t-1,3-Dichloropropene	10.000	10.811	-8.1	97	0.00
46 T	cis-1,3-Dichloropropene	10.000	11.274	-12.7	101	-0.01
47 T	1,1,2-Trichloroethane	10.000	11.410	-14.1	112	0.00
48 T	Dibromochloromethane	10.000	11.924	-19.2	110	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041958.D
 Acq On : 03 Feb 2025 10:48
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Feb 04 02:30:31 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	12.125	-21.3	109	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.499	-15.0	115	-0.02
51 T	2-Hexanone	10.000	11.752	-17.5	115	0.00
52 T	Tetrachloroethene	10.000	10.211	-2.1	106	0.00
53 T	Toluene	10.000	11.275	-12.8	107	-0.01
54 T	1,2-Dibromoethane	10.000	11.384	-13.8	112	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.885	-18.8	114	0.00
57 T	Chlorobenzene	10.000	11.280	-12.8	114	0.00
58 T	Ethyl Benzene	10.000	11.531	-15.3	108	0.00
59 T	m/p-Xylene	20.000	23.782	-18.9	113	0.00
60 T	o-Xylene	10.000	12.025	-20.3	113	0.00
61 T	Styrene	10.000	11.895	-18.9	105	0.00
62	Isopropylbenzene	10.000	11.677	-16.8	112	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	12.280	-22.8	121	0.00
64	n-propylbenzene	10.000	11.942	-19.4	115	0.00
65	tert-Butylbenzene	10.000	11.464	-14.6	111	0.00
66 T	Benzyl Chloride	10.000	11.160	-11.6	98	0.00
67	sec-Butylbenzene	10.000	11.655	-16.5	114	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	9.905	1.0	92	0.00
69	p-Isopropyltoluene	10.000	11.756	-17.6	113	0.00
70	n-Butylbenzene	10.000	11.589	-15.9	112	0.00
71	2-Chlorotoluene	10.000	11.644	-16.4	111	0.00
72 T	4-Ethyltoluene	10.000	11.926	-19.3	112	0.00
73 T	1,3,5-Trimethylbenzene	10.000	11.613	-16.1	112	0.00
74 T	1,2,4-Trimethylbenzene	10.000	11.666	-16.7	114	0.00
75 T	1,3-Dichlorobenzene	10.000	11.437	-14.4	115	0.00
76 T	1,4-Dichlorobenzene	10.000	11.500	-15.0	114	0.00
77 T	1,2-Dichlorobenzene	10.000	11.457	-14.6	117	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	9.729	2.7	106	0.00
79 T	Naphthalene	10.000	10.407	-4.1	110	0.00
80 T	Naphthalene,2-methyl-	10.000	6.894	31.1#	94	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.671	3.3	105	0.00

(#) = Out of Range

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



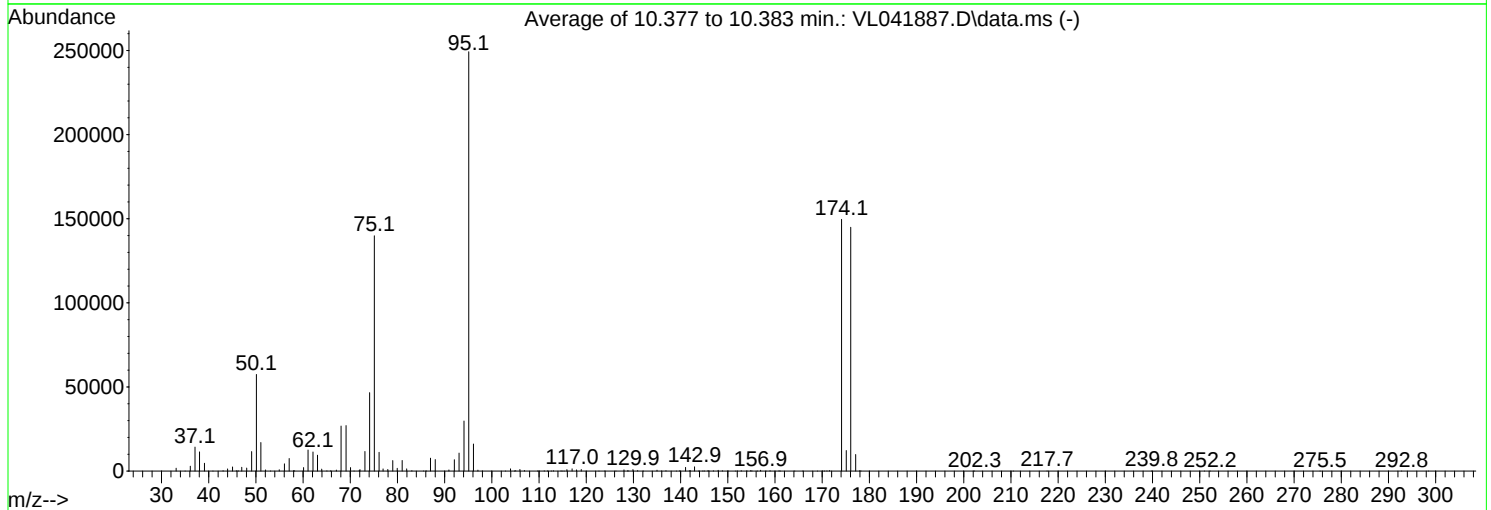
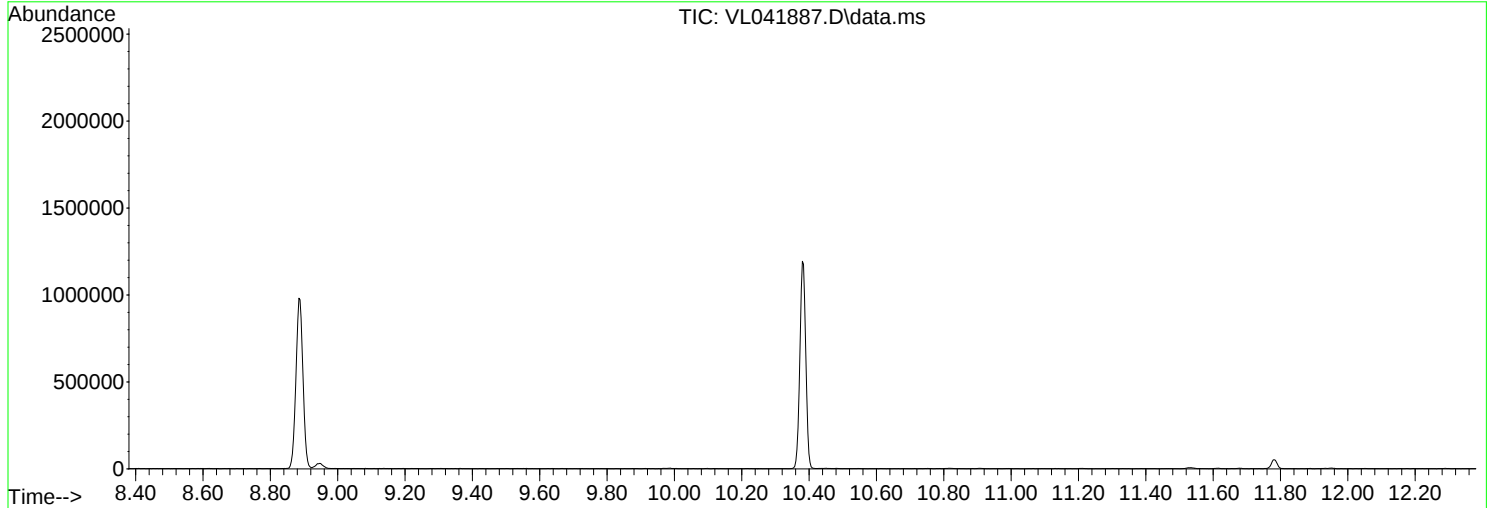
QC SAMPLE DATA

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 :

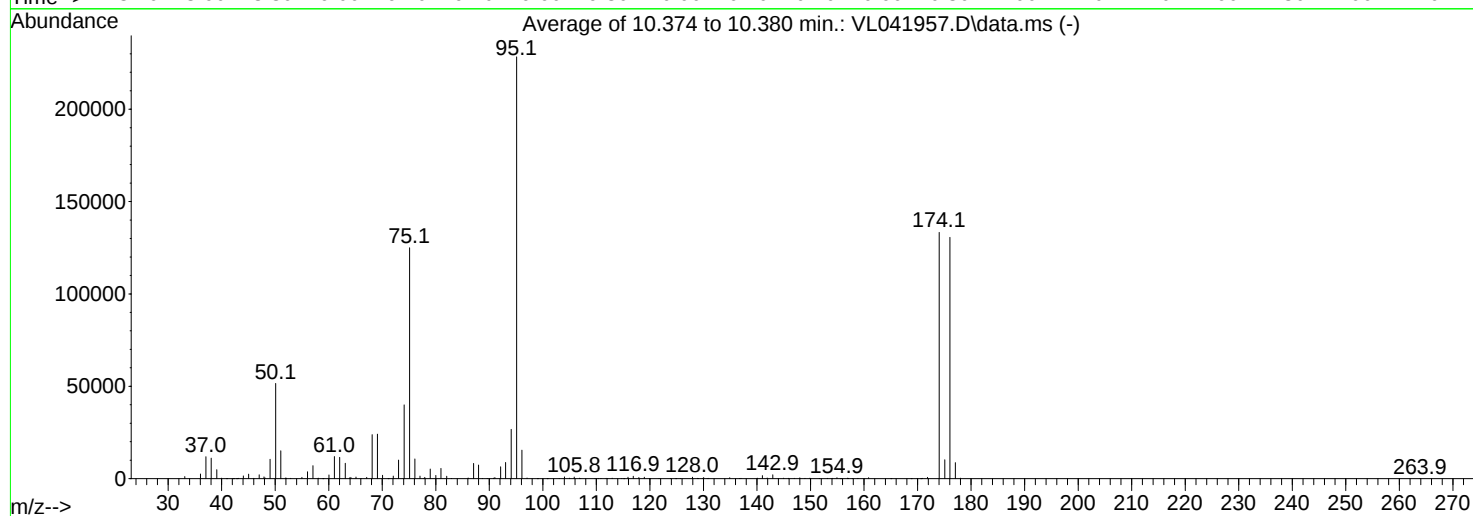
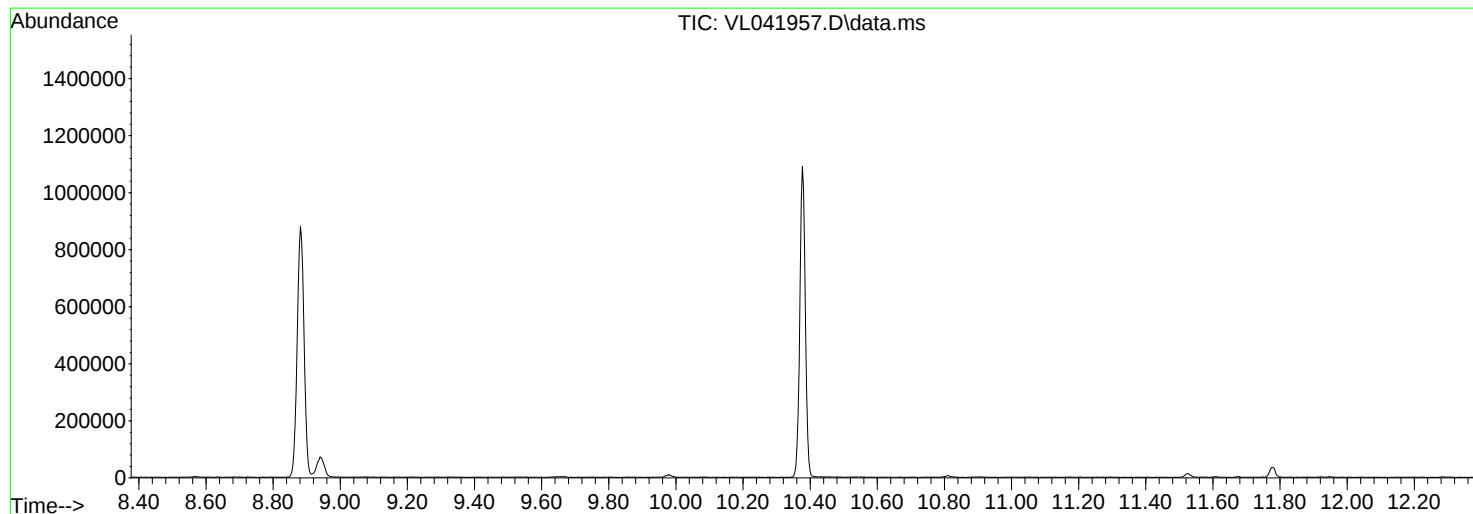
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041957.D
Acq On : 03 Feb 2025 09:47
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 3178, 3179, 3180; Background Corrected with Scan 3165

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	8	40	22.6	51539	PASS
75	95	30	66	54.7	125019	PASS
95	95	100	100	100.0	228352	PASS
96	95	5	9	6.8	15439	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	58.4	133352	PASS
175	174	4	9	7.7	10244	PASS
176	174	93	101	98.0	130661	PASS
177	176	5	9	6.6	8641	PASS

Average of 10.374 to 10.380 min.: VL041957.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	1120	45.05	2463	55.00	689	65.10	841
36.05	2514	46.00	184	56.05	3741	66.05	6
37.05	11892	47.00	2084	57.05	7026	67.10	72
38.05	11097	47.90	958	58.05	254	68.10	2382
39.10	4832	48.10	422	58.90	19	69.10	24107
39.95	251	49.05	10474	60.05	2002	70.05	1798
40.90	35	50.10	51539	61.05	11945	71.10	45
42.20	26	51.05	15057	62.05	11539	72.05	1431
42.80	21	51.90	324	63.10	8334	73.05	10025
43.15	208	52.10	274	63.90	422	74.10	39931
44.05	1487	52.90	142	64.15	736	75.10	125019

Average of 10.374 to 10.380 min.: VL041957.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.10	10646	88.00	7333	99.00	28	111.80	156
77.05	1418	88.70	126	100.80	23	112.10	61
77.80	192	89.60	71	103.05	125	112.95	283
77.95	720	90.80	252	104.05	947	114.75	115
78.95	5171	91.05	573	105.00	301	115.10	34
80.00	1716	92.10	6387	105.85	897	115.90	824
80.95	5529	93.05	8721	106.85	269	116.90	1318
82.05	1302	94.10	26645	107.10	82	117.95	645
82.95	83	95.10	228352	109.75	66	118.95	803
86.05	386	96.10	15439	110.35	48	119.90	29
87.05	8233	97.05	363	110.85	100	121.70	49

Average of 10.374 to 10.380 min.: VL041957.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
123.85	123	136.75	135	148.95	203	160.85	491
124.80	43	137.00	198	149.90	229	165.00	18
125.70	49	140.05	224	151.65	78	168.80	18
127.95	809	141.00	1633	153.15	149	169.95	60
128.90	210	141.90	327	154.05	160	170.60	29
129.10	123	142.95	2114	154.95	531	170.90	161
129.90	218	144.00	72	155.60	22	171.85	664
130.05	579	145.00	241	156.90	253	174.05	133352
130.70	97	145.90	188	157.10	161	175.10	10244
131.00	189	146.95	190	157.80	111	176.05	130661
134.90	481	148.00	461	158.85	171	177.05	8641

Average of 10.374 to 10.380 min.: VL041957.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
178.00	253						
263.90	65						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	2440 Jerome Ave, Bronx NY	Date Received:	
Client Sample ID:	VL0203ABL02	SDG No.:	Q1222
Lab Sample ID:	VL0203ABL02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041960.D	1		02/03/25 12:05	VL020325

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
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	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
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	151000		2.79			
540-36-3	1,4-Difluorobenzene	408000		3.965			
3114-55-4	Chlorobenzene-d5	347000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041960.D
 Acq On : 03 Feb 2025 12:05
 Operator : SY/MD
 Sample : VL0203ABL02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABL02

Quant Time: Feb 04 02:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	2.790	49	151198	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	407814	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	347345	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	262058	9.579	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.800%

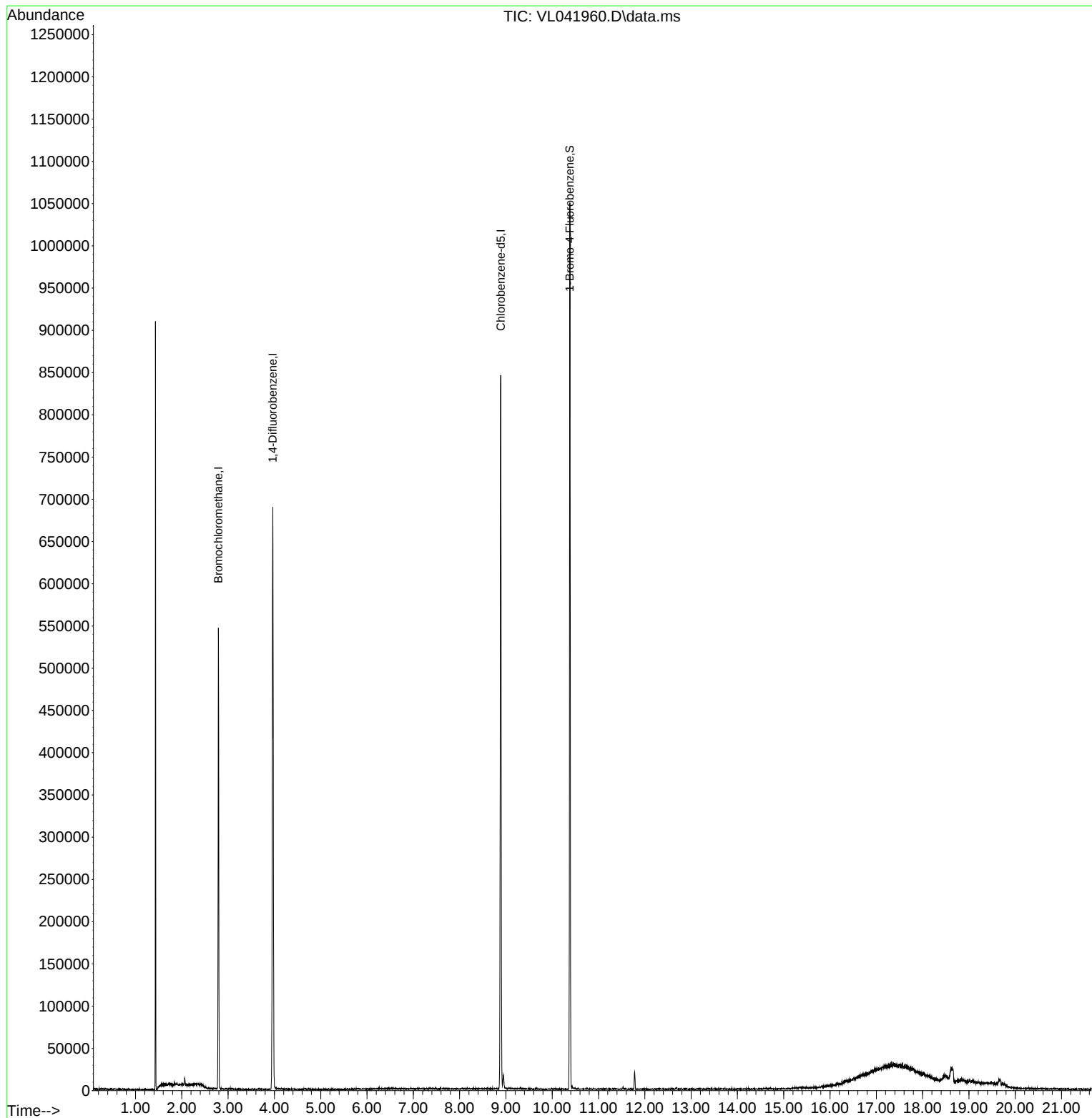
Target Compounds	Qvalue

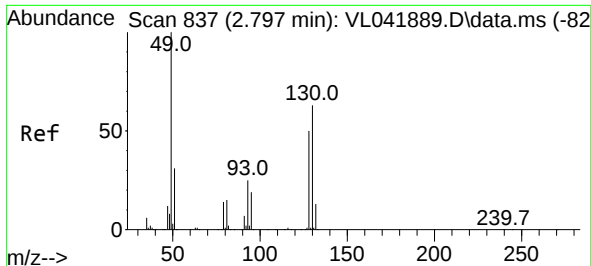
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
Data File : VL041960.D
Acq On : 03 Feb 2025 12:05
Operator : SY/MD
Sample : VL0203ABL02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0203ABL02

Quant Time: Feb 04 02:33:07 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

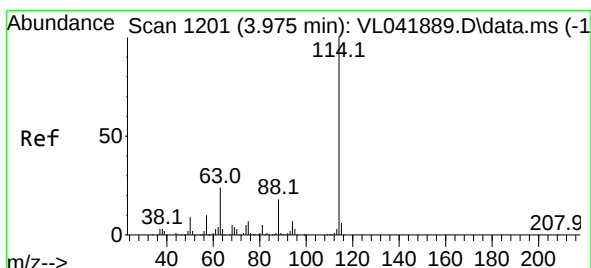
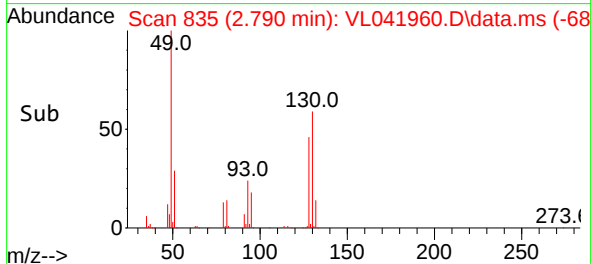
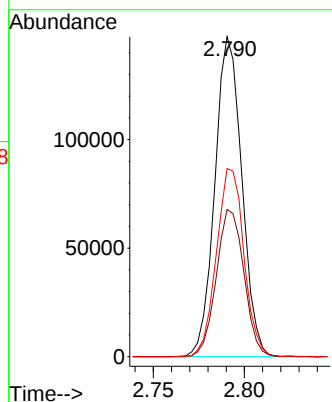
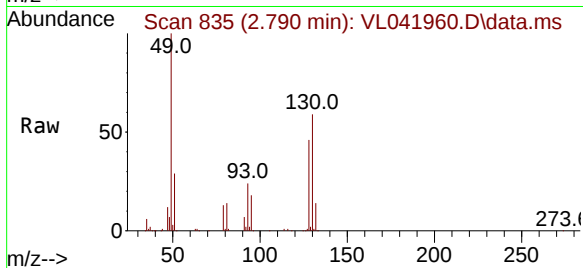




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.790 min Scan# 81
 Delta R.T. -0.007 min
 Lab File: VL041960.D
 Acq: 03 Feb 2025 12:05

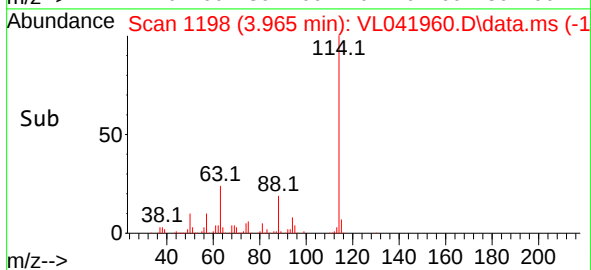
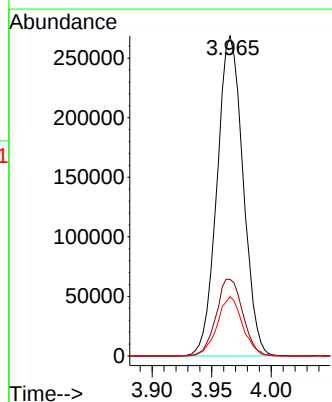
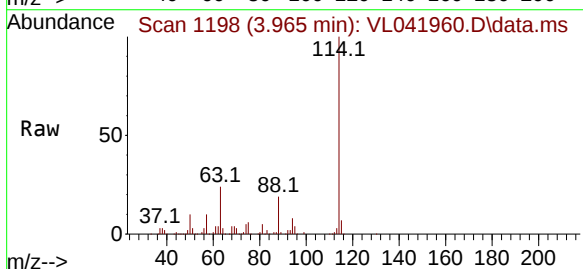
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABL02

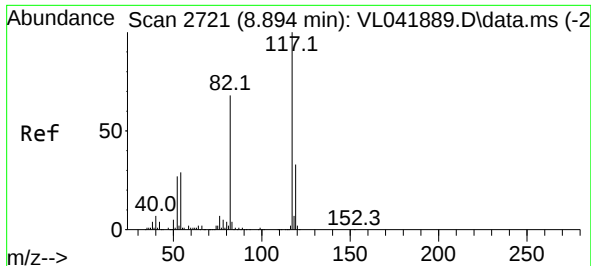
Tgt Ion: 49 Resp: 151198
 Ion Ratio Lower Upper
 49 100
 128 47.2 24.3 73.0
 130 60.1 31.1 93.2



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. -0.009 min
 Lab File: VL041960.D
 Acq: 03 Feb 2025 12:05

Tgt Ion: 114 Resp: 407814
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.8 29.6
 88 18.0 14.4 21.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 21

Delta R.T. -0.006 min

Lab File: VL041960.D

Acq: 03 Feb 2025 12:05

Instrument :

MSVOA_L

ClientSampleId :

VL0203ABL02

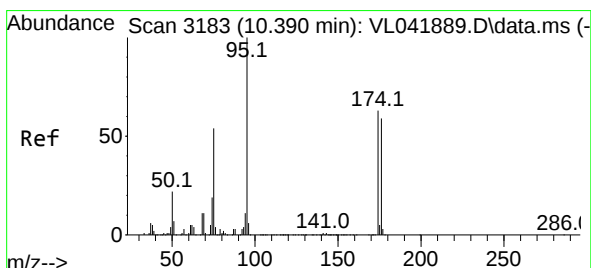
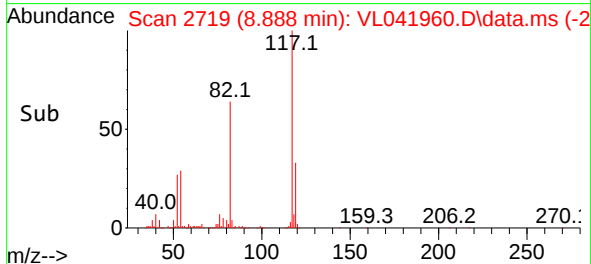
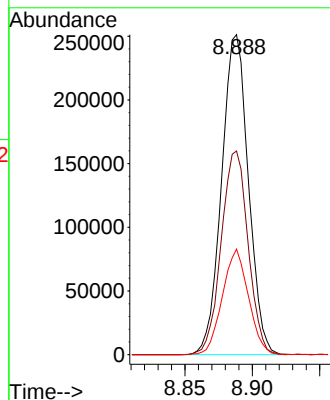
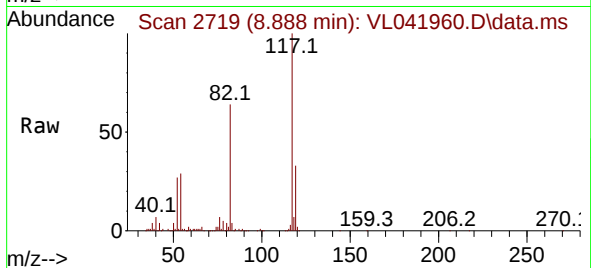
Tgt Ion:117 Resp: 347345

Ion Ratio Lower Upper

117 100

82 63.8 54.2 81.4

119 32.3 25.0 37.6



#68

1-Bromo-4-Fluorobenzene

Concen: 9.579 ppbv

RT: 10.380 min Scan# 3180

Delta R.T. -0.009 min

Lab File: VL041960.D

Acq: 03 Feb 2025 12:05

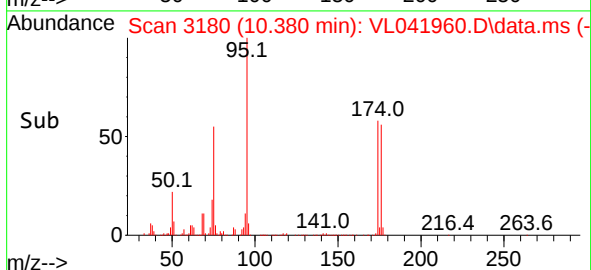
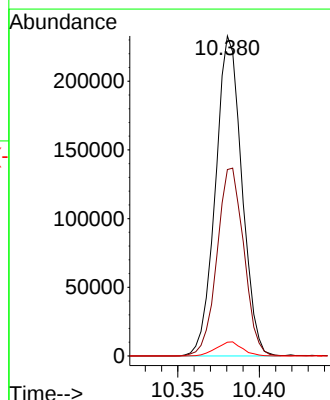
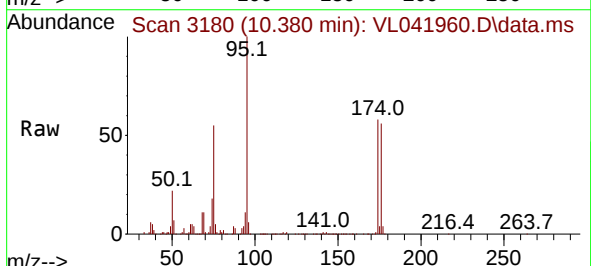
Tgt Ion: 95 Resp: 262058

Ion Ratio Lower Upper

95 100

174 59.9 49.0 73.4

175 4.4 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	2440 Jerome Ave, Bronx NY	Date Received:	
Client Sample ID:	VL0203ABS01	SDG No.:	Q1222
Lab Sample ID:	VL0203ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL041961.D	1		02/03/25 12:57	VL020325

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.80	25.1		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.20	36.5		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.90	39.3		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.3	56.2		0.050	0.16	ug/m3
79-01-6	Trichloroethene	11.0	59.1		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.2	69.2		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.90			65 - 135	99%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	153000		2.79			
540-36-3	1,4-Difluorobenzene	419000		3.965			
3114-55-4	Chlorobenzene-d5	367000		8.882			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Quant Time: Feb 04 02:34:05 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 02/04/2025
 Supervised By : Mahesh Dadoda 02/04/2025

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

Internal Standards						
1) Bromochloromethane	2.790	49	152847	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	418895	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	367437	10.000	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 287209 9.924 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	203280	9.764	ppbv	99
3) Chlorodifluoromethane	1.476	51	225433	10.336	ppbv	99
4) Chloromethane	1.535	50	81880	10.457	ppbv	94
5) Vinyl Chloride	1.583	62	77713	9.799	ppbv	98
6) Bromomethane	1.670	94	36640	9.694	ppbv	88
7) Chloroethane	1.706	64	31280	10.137	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	179670	9.875	ppbv	98
9) Propene	1.486	41	91411	10.174	ppbv	99
10) Heptane	4.985	43	161638	6.731	ppbv	99
11) Trichlorofluoromethane	1.881	101	201683	9.312	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	164938	9.717	ppbv	98
13) Ethanol	1.722	45	4592	6.978	ppbv	91
14) Bromoethene	1.784	108	57833	9.306	ppbv	99
15) Acetone	1.839	43	165826	9.033	ppbv	98
16) 1,3-Butadiene	1.609	39	83163	10.093	ppbv	98
17) tert-Butyl alcohol	2.043	59	198776	8.797	ppbv	98
18) 1,1-Dichloroethene	2.036	96	70323	9.192	ppbv	97
19) Isopropyl Alcohol	1.891	45	99004	9.096	ppbv	95
20) Methylene Chloride	2.065	84	62278	8.584	ppbv	99
21) Allyl Chloride	2.098	41	122853	9.664	ppbv	98
22) trans-1,2-Dichloroethene	2.344	96	85089	9.855	ppbv	98
23) Vinyl Acetate	2.467	43	86919	9.552	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	166034	9.942	ppbv	99
25) Ethyl Acetate	2.842	43	536156	10.831	ppbv	100
26) Hexane	2.832	57	210051	10.728	ppbv	95
27) Carbon Disulfide	2.153	76	198444	10.242	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	110198	7.364	ppbv	99
29) Chloroform	2.855	83	325966	10.532	ppbv	96
30) Cyclohexane	3.865	84	173840	10.236	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	204611	9.925	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	305623	10.320	ppbv	99
34) 2-Butanone	2.564	43	302190	11.344	ppbv	99
35) Carbon Tetrachloride	3.768	117	309917	11.778	ppbv	97
36) Benzene	3.664	78	426241	11.094	ppbv	99
37) 1,2-Dichloroethane	3.224	62	235620	10.920	ppbv	99
38) Trichloroethene	4.554	130	167629	10.995	ppbv	97
39) 1,2-Dichloropropane	4.318	63	151232	11.221	ppbv	97
40) 1,4-Dioxane	4.590	88	74021	10.876	ppbv #	100
41) Tetrahydrofuran	3.062	42	169798	11.728	ppbv	98
42) Bromodichloromethane	4.496	83	335595	11.600	ppbv	98
43) Methyl Methacrylate	4.884	69	102724	7.197	ppbv	96
44) 2,2,4-Trimethylpentane	4.648	57	725196	11.670	ppbv	99
45) t-1,3-Dichloropropene	6.422	75	145441	10.886	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041961.D
 Acq On : 03 Feb 2025 12:57
 Operator : SY/MD
 Sample : VL0203ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0203ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/04/2025
 Supervised By :Mahesh Dadoda 02/04/2025

Quant Time: Feb 04 02:34:05 2025

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

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

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

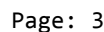
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	122518	6.985	ppbv	98
47) 1,1,2-Trichloroethane	6.590	97	167038	11.694	ppbv	95
48) Dibromochloromethane	7.390	129	260120	11.803	ppbv	100
49) Bromoform	9.487	173	217089	11.991	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	267280	7.350	ppbv	98
51) 2-Hexanone	7.445	43	328817	11.767	ppbv #	96
52) Tetrachloroethene	8.225	164	136143	10.220	ppbv	97
53) Toluene	6.936	91	469033	11.207	ppbv	99
54) 1,2-Dibromoethane	7.655	107	222983	11.356	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.927	131	214758	11.715	ppbv	99
57) Chlorobenzene	8.924	112	382465	11.284	ppbv	99
58) Ethyl Benzene	9.357	91	646825	11.264	ppbv	98
59) m/p-Xylene	9.555	91	1068374m	23.212	ppbv	
60) o-Xylene	9.966	91	537558	11.766	ppbv	98
61) Styrene	9.872	104	239767	11.699	ppbv	98
62) Isopropylbenzene	10.542	105	802003	11.345	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.966	83	357905	12.260	ppbv	100
64) n-propylbenzene	10.992	120	208748	11.686	ppbv	99
65) tert-Butylbenzene	11.536	119	731901	11.360	ppbv	99
66) Benzyl Chloride	11.620	91	41013	10.285	ppbv	97
67) sec-Butylbenzene	11.772	105	1015579	11.448	ppbv	99
69) p-Isopropyltoluene	11.931	119	836492	11.451	ppbv	98
70) n-Butylbenzene	12.290	91	824000	11.374	ppbv	100
71) 2-Chlorotoluene	10.905	91	592446	11.329	ppbv	99
72) 4-Ethyltoluene	11.131	105	634050	11.602	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	551677	11.432	ppbv	97
74) 1,2,4-Trimethylbenzene	11.542	105	602744	11.533	ppbv	96
75) 1,3-Dichlorobenzene	11.613	146	348392	11.249	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	344428	11.367	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	350456	11.418	ppbv	98
78) Hexachloro-1,3-Butadiene	13.892	225	239328	9.500	ppbv	99
79) Naphthalene	13.523	128	539332	10.249	ppbv	98
80) Naphthalene,2-methyl-	14.468	142	172189	6.902	ppbv	97
81) 1,2,4-Trichlorobenzene	13.452	180	244059	9.502	ppbv	99

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

Manual Integrations APPROVED

Quant Time: Feb 04 02:34:05 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



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
VSTDIC001	VL041891.D	Trichloroethene	SAM	1/15/2025 11:01:22 AM	MMDadoda	1/15/2025 12:57:24 PM	Peak Integrated by Software
VSTDIC0.5	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
VSTDIC0.5	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
VSTDIC0.5	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
VSTDIC0.5	VL041892.D	Bromodichloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDIC0.5	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
VSTDIC0.5	VL041892.D	Dibromochloromethane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDIC0.5	VL041892.D	Ethanol	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDIC0.5	VL041892.D	Hexane	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDIC0.5	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
VSTDIC0.5	VL041892.D	Methyl Methacrylate	SAM	1/15/2025 11:01:52 AM	MMDadoda	1/15/2025 12:57:35 PM	Peak Integrated by Software
VSTDIC0.5	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
VSTDIC0.5	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:	VL020325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041958.D	m/p-Xylene	SAM	2/4/2025 8:50:46 AM	MMDadoda	2/4/2025 3:44:15 PM	Peak Integrated by Software
VL0203ABS01	VL041961.D	m/p-Xylene	SAM	2/4/2025 8:50:51 AM	MMDadoda	2/4/2025 3:44:17 PM	Peak Integrated by Software
Q1222-01	VL041962.D	Chlorodifluoromethane	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	Cyclohexane	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	Heptane	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	m/p-Xylene	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	n-propylbenzene	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	o-Xylene	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	sec-Butylbenzene	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	Tetrahydrofuran	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-01	VL041962.D	Trichloroethene	SAM	2/4/2025 8:50:55 AM	MMDadoda	2/4/2025 3:44:20 PM	Peak Integrated by Software
Q1222-02	VL041967.D	2,2,4-Trimethylpentane	SAM	2/4/2025 8:51:08 AM	MMDadoda	2/4/2025 3:44:28 PM	Peak Integrated by Software
Q1222-02	VL041967.D	Propene	SAM	2/4/2025 8:51:08 AM	MMDadoda	2/4/2025 3:44:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl020325

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1222-02	VL041967.D	Tetrachloroethene	SAM	2/4/2025 8:51:08 AM	MMDadoda	2/4/2025 3:44:28 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	m/p-Xylene	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	Propene	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	Tetrachloroethene	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-02DUP	VL041968.D	Tetrahydrofuran	SAM	2/4/2025 8:52:40 AM	MMDadoda	2/4/2025 3:44:31 PM	Peak Integrated by Software
Q1222-03	VL041969.D	Propene	SAM	2/4/2025 8:51:23 AM	MMDadoda	2/4/2025 3:44:33 PM	Peak Integrated by Software
VSTDCCC010	VL041975.D	m/p-Xylene	SAM	2/4/2025 9:18:09 AM	MMDadoda	2/4/2025 3:44:44 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#	Sampleld	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 # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM		
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:44:53 PM		
SubDirectory	VL020325	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			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041957.D	03 Feb 2025 09:47	SY/MD	Ok
2	VSTDCCC010	VL041958.D	03 Feb 2025 10:48	SY/MD	Ok,M
3	VL0203ABL01	VL041959.D	03 Feb 2025 11:34	SY/MD	Ok
4	VL0203ABL02	VL041960.D	03 Feb 2025 12:05	SY/MD	Ok
5	VL0203ABS01	VL041961.D	03 Feb 2025 12:57	SY/MD	Ok,M
6	Q1222-01	VL041962.D	03 Feb 2025 13:57	SY/MD	Ok,M
7	Q1222-01DL	VL041963.D	03 Feb 2025 14:28	SY/MD	Not Ok
8	Q1256-01	VL041964.D	03 Feb 2025 14:59	SY/MD	Ok,M
9	Q1256-01DL	VL041965.D	03 Feb 2025 15:30	SY/MD	Not Ok
10	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02	SY/MD	Ok
11	Q1222-02	VL041967.D	03 Feb 2025 16:35	SY/MD	Ok,M
12	Q1222-02DUP	VL041968.D	03 Feb 2025 17:08	SY/MD	Ok,M
13	Q1222-03	VL041969.D	03 Feb 2025 17:41	SY/MD	Ok,M
14	Q1256-02	VL041970.D	03 Feb 2025 18:15	SY/MD	Ok,M
15	Q1168-14 0.03	VL041971.D	03 Feb 2025 21:01	SY/MD	Not Ok
16	Q1168-13 0.03	VL041972.D	03 Feb 2025 21:32	SY/MD	Ok,M
17	Q1168-14 0.03	VL041973.D	03 Feb 2025 22:13	SY/MD	Ok,M
18	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03	SY/MD	Ok
19	VSTDCCC010	VL041975.D	04 Feb 2025 08:34	SY/MD	Ok,M

M : Manual Integration

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	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 # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:44:53 PM
SubDirectory	VL020325	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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041957.D	03 Feb 2025 09:47		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL041958.D	03 Feb 2025 10:48		SY/MD	Ok,M
3	VL0203ABL01	VL0203ABL01	VL041959.D	03 Feb 2025 11:34		SY/MD	Ok
4	VL0203ABL02	VL0203ABL02	VL041960.D	03 Feb 2025 12:05		SY/MD	Ok
5	VL0203ABS01	VL0203ABS01	VL041961.D	03 Feb 2025 12:57		SY/MD	Ok,M
6	Q1222-01	SV1	VL041962.D	03 Feb 2025 13:57		SY/MD	Ok,M
7	Q1222-01DL	SV1DL	VL041963.D	03 Feb 2025 14:28	Not Required	SY/MD	Not Ok
8	Q1256-01	SV1	VL041964.D	03 Feb 2025 14:59		SY/MD	Ok,M
9	Q1256-01DL	SV1DL	VL041965.D	03 Feb 2025 15:30	Not Required	SY/MD	Not Ok
10	QC012825 CAN 10439	QC012825 CAN 10439	VL041966.D	03 Feb 2025 16:02		SY/MD	Ok
11	Q1222-02	IA1	VL041967.D	03 Feb 2025 16:35		SY/MD	Ok,M
12	Q1222-02DUP	IA1DUP	VL041968.D	03 Feb 2025 17:08		SY/MD	Ok,M
13	Q1222-03	OA1	VL041969.D	03 Feb 2025 17:41		SY/MD	Ok,M
14	Q1256-02	IA1	VL041970.D	03 Feb 2025 18:15		SY/MD	Ok,M
15	Q1168-14 0.03	LOQ-AIR-02-QT1-2025	VL041971.D	03 Feb 2025 21:01	rerun	SY/MD	Not Ok
16	Q1168-13 0.03	LOD-MDL-AIR-01-QT1	VL041972.D	03 Feb 2025 21:32		SY/MD	Ok,M
17	Q1168-14 0.03	LOQ-AIR-02-QT1-2025	VL041973.D	03 Feb 2025 22:13		SY/MD	Ok,M
18	QC020325 CAN 10599	QC020325 CAN 10599	VL041974.D	04 Feb 2025 08:03		SY/MD	Ok

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL020325

Review By	Semsettin Yesilyurt	Review On	2/4/2025 9:24:56 AM
Supervise By	Maresh Dadoda	Supervise On	2/4/2025 3:44:53 PM
SubDirectory	VL020325	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
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VSTDCCC010	VSTDCCC010EC	VL041975.D	04 Feb 2025 08:34		SY/MD	Ok,M
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M : Manual Integration