



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2501048				Courier : F. Galdun				1 of 2 COCs																	
Client ID : GFEL01				Project ID : 21-36 Utensil Parkway, Flushing NY				Sampler Name(s) : FRANK Galdun				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave				Project Manager : FRANK Galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
City : Lake Hiawatha				Site Details: 55 CONTANT AVE LODGE, NJ																									
State : NJ				Analysis Turnaround Time 5 DAY																									
Zip Code : 07034				Standard : 10 business days OR				Data Package Type : RESULTS ONLY																					
Country :				Rush (Specify): 5 Days				EDD Type : PDE																					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SW1	2/5/25	8:21	10:21	OVER 30	5.5	65	65	-30	4.5	10707	10331	6 L	50	VL041615.D	1		1												
Temperature (Fahrenheit) <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) [Signature]							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, 1,1-DCE, 1,2-DCA, VINYL CHLORIDE, 1,1,1-TCA 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: 13.9																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: Sam				Date/Time: 01/31/25				Canisters Received by: [Signature]				Date/Time: 2/5/25 1200																	
Samples Relinquished by: [Signature]				Date/Time: 2/5/25				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2501048				Courier : FGALDUN				<u>2</u> of <u>2</u> COCs																	
Client ID : GFELO1				Project ID : 21-36 Utopia Parkway, Flushing, NY				Sampler Name(s) : FRANK GILDUN				Analysis		Matrix															
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GILDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 55 CONANT AVE LODI, NJ																									
				Analysis Turnaround Time 5 DAY				Data Package Type : RESULTS ONLY																					
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SJZ	2/5/25	8:36	10:36	30	6	65		-30	-5.5	10613	10283	6 L	50	VL041782.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) aut							
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	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium <u>Low</u> PID Readings: 4.4																													
Sampling site (State):																													
Quick Connector required : NO																													
Canisters Shipped by: SAM				Date/Time: 01/30/25				Canisters Received by: [Signature]				Date/Time: 2/5/25 1200																	
Samples Relinquished by: [Signature]				Date/Time: 2/5/25				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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	
Laboratory: <u>Chemtech</u> Name Field Sample Seal No. <u>Q1302</u> Case No.: <u>55 Contant Ave Lodl, NJ</u>	Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u> Title: <u>Sample Custodian</u> Date Broken <u>2/5/2025</u> Analytical Parameter/Fraction <u>MOCMS Group3</u>
Military Time Seal Broken: <u>12:00:00</u>	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1302-01	SV1		
Q1302-02	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2/5	1350	Signature  Printed Name <u>Page N.</u>	Signature  Printed Name <u>Sanjay Gupta</u>	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	
		Signature Printed Name	Signature Printed Name	

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

DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

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

LAB CHRONICLE

OrderID:	Q1302	OrderDate:	2/5/2025 1:24:00 PM
Client:	GFE LLC	Project:	55 Contant Ave Lodi, NJ
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1302-01	SV1	Air	VOCMS Group3	TO-15	02/05/25		02/10/25	02/05/25
Q1302-02	SV2	Air	VOCMS Group3	TO-15	02/05/25		02/10/25	02/05/25

Hit Summary Sheet
SW-846

SDG No.: Q1302

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q1302-01	SV1	Air	1,1,1-Trichloroethane	8.18		0.22	0.65	ug/m3
Q1302-01	SV1	Air	Trichloroethene	0.86		0.38	0.64	ug/m3
Q1302-01	SV1	Air	Tetrachloroethene	14.2		0.41	0.81	ug/m3
			Total Voc :	23.3				
			Total Concentration:	23.3				
Client ID:	SV2							
Q1302-02	SV2	Air	1,1,1-Trichloroethane	4.26		0.22	0.65	ug/m3
Q1302-02	SV2	Air	Tetrachloroethene	8.14		0.41	0.81	ug/m3
			Total Voc :	12.4				
			Total Concentration:	12.4				



QC SUMMARY

Surrogate Summary

SDG No.: Q1302

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1302-01	SV1	1-Bromo-4-Fluorobenzene	10	9.81	98	65	135
Q1302-02	SV2	1-Bromo-4-Fluorobenzene	10	9.43	94	65	135
Q1303-03DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.29	93	65	135
VL0210ABL01	VL0210ABL01	1-Bromo-4-Fluorobenzene	10	9.32	93	65	135
VL0210ABS01	VL0210ABS01	1-Bromo-4-Fluorobenzene	10	9.60	96	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1302
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL041979.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0210ABS01	Vinyl Chloride	10	10.7	ppbv	107			70	130	
	1,1-Dichloroethene	10	9.50	ppbv	95			70	130	
	cis-1,2-Dichloroethene	10	10.1	ppbv	101			70	130	
	1,1,1-Trichloroethane	10	10.4	ppbv	104			70	130	
	Trichloroethene	10	11.4	ppbv	114			70	130	
	Tetrachloroethene	10	10.7	ppbv	107			70	130	

Duplicate Sample Summary

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

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0	0	0
Tetrachloroethene	1.6	1.5	6.5
Trichloroethene	0.04	0.03	28.6 *
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1302

SAS No.: Q1302 SDG NO.: Q1302

Lab File ID: VL041990.D

Lab Sample ID: Q1303-03DUP

Date Analyzed: 02/10/2025

Time Analyzed: 16:17

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

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

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0210ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1302

SAS No.: Q1302 SDG NO.: Q1302

Lab File ID: VL041978.D

Lab Sample ID: VL0210ABL01

Date Analyzed: 02/10/2025

Time Analyzed: 09:24

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0210ABS01	VL0210ABS01	VL041979.D	02/10/2025
SV1	Q1302-01	VL041982.D	02/10/2025
SV2	Q1302-02	VL041983.D	02/10/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1302 SAS No.: Q1302 SDG NO.: Q1302
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.: Q1302 SAS No.: Q1302 SDG NO.: Q1302
Lab File ID: VL041976.D BFB Injection Date: 02/10/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:49
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

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

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL041977.D	02/10/2025	08:32
VL0210ABL01	VL0210ABL01	VL041978.D	02/10/2025	09:24
VL0210ABS01	VL0210ABS01	VL041979.D	02/10/2025	10:08
SV1	Q1302-01	VL041982.D	02/10/2025	12:04
SV2	Q1302-02	VL041983.D	02/10/2025	12:35
IA1DUP	Q1303-03DUP	VL041990.D	02/10/2025	16:17

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1302 SAS No.: Q1302 SDG NO.: Q1302
 Lab File ID: VL041977.D Date Analyzed: 02/10/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:32
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	154218	2.78	410131	3.95	354638	8.87
UPPER LIMIT	215905	3.11	574183	4.28	496493	9.20
LOWER LIMIT	92530.8	2.45	246079	3.62	212783	8.54
EPA SAMPLE NO.						
SV1	155568	2.78	428130	3.95	389923	8.87
SV2	157243	2.78	437860	3.96	397046	8.88
IA1DUP	140524	2.78	401797	3.96	348109	8.88
VL0210ABL01	155942	2.78	417063	3.95	341669	8.88
VL0210ABS01	152077	2.78	414040	3.95	360498	8.88

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

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

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	02/05/25
Project:	55 Contant Ave Lodi, NJ	Date Received:	02/05/25
Client Sample ID:	SV1	SDG No.:	Q1302
Lab Sample ID:	Q1302-01	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
VL041982.D	4		02/10/25 12:04	VL021025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
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	1.50	8.18		0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.16	0.86		0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	2.10	14.2		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	156000			2.781		
540-36-3	1,4-Difluorobenzene	428000			3.949		
3114-55-4	Chlorobenzene-d5	390000			8.872		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041982.D
 Acq On : 10 Feb 2025 12:04
 Operator : SY/MD
 Sample : Q1302-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:21:04 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.781	49	155568	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.949	114	428130	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.872	117	389923	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.370	95	301330	9.812	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.496	85	3575	0.169	ppbv	91
9) Propene	1.479	41	30208	3.303	ppbv	100
10) Heptane	4.972	43	27899m	1.141	ppbv	
11) Trichlorofluoromethane	1.871	101	10069m	0.457	ppbv	
13) Ethanol	1.719	45	11612	17.336	ppbv	87
15) Acetone	1.829	43	1917960	102.647	ppbv #	71
16) 1,3-Butadiene	1.599	39	8730m	1.041	ppbv	
17) tert-Butyl alcohol	2.039	59	29952	1.302	ppbv #	92
19) Isopropyl Alcohol	1.884	45	40295	3.637	ppbv #	32
20) Methylene Chloride	2.059	84	2141	0.290	ppbv #	85
26) Hexane	2.819	57	25305	1.270	ppbv #	36
27) Carbon Disulfide	2.146	76	10807	0.548	ppbv #	64
29) Chloroform	2.842	83	5210	0.165	ppbv	85
30) Cyclohexane	3.845	84	33594	1.944	ppbv	94
32) 1,1,1-Trichloroethane	3.360	97	11119	0.369	ppbv	95
34) 2-Butanone	2.551	43	570350	20.948	ppbv	99
35) Carbon Tetrachloride	3.752	117	7660	0.285	ppbv #	95
36) Benzene	3.648	78	66904	1.704	ppbv	97
38) Trichloroethene	4.535	130	636m	0.041	ppbv	
41) Tetrahydrofuran	3.052	42	18643	1.260	ppbv #	42
50) 4-Methyl-2-Pentanone	5.745	43	159843	4.300	ppbv	97
51) 2-Hexanone	7.432	43	118021	4.132	ppbv #	95
52) Tetrachloroethene	8.221	164	7240m	0.532	ppbv	
53) Toluene	6.923	91	688874	16.105	ppbv	99
58) Ethyl Benzene	9.351	91	10750m	0.176	ppbv	
59) m/p-Xylene	9.522	91	23924m	0.490	ppbv	
60) o-Xylene	9.959	91	11257	0.232	ppbv	98
61) Styrene	9.869	104	3142	0.144	ppbv #	83
73) 1,3,5-Trimethylbenzene	11.196	105	5988	0.117	ppbv	93
74) 1,2,4-Trimethylbenzene	11.532	105	12379	0.223	ppbv #	50

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

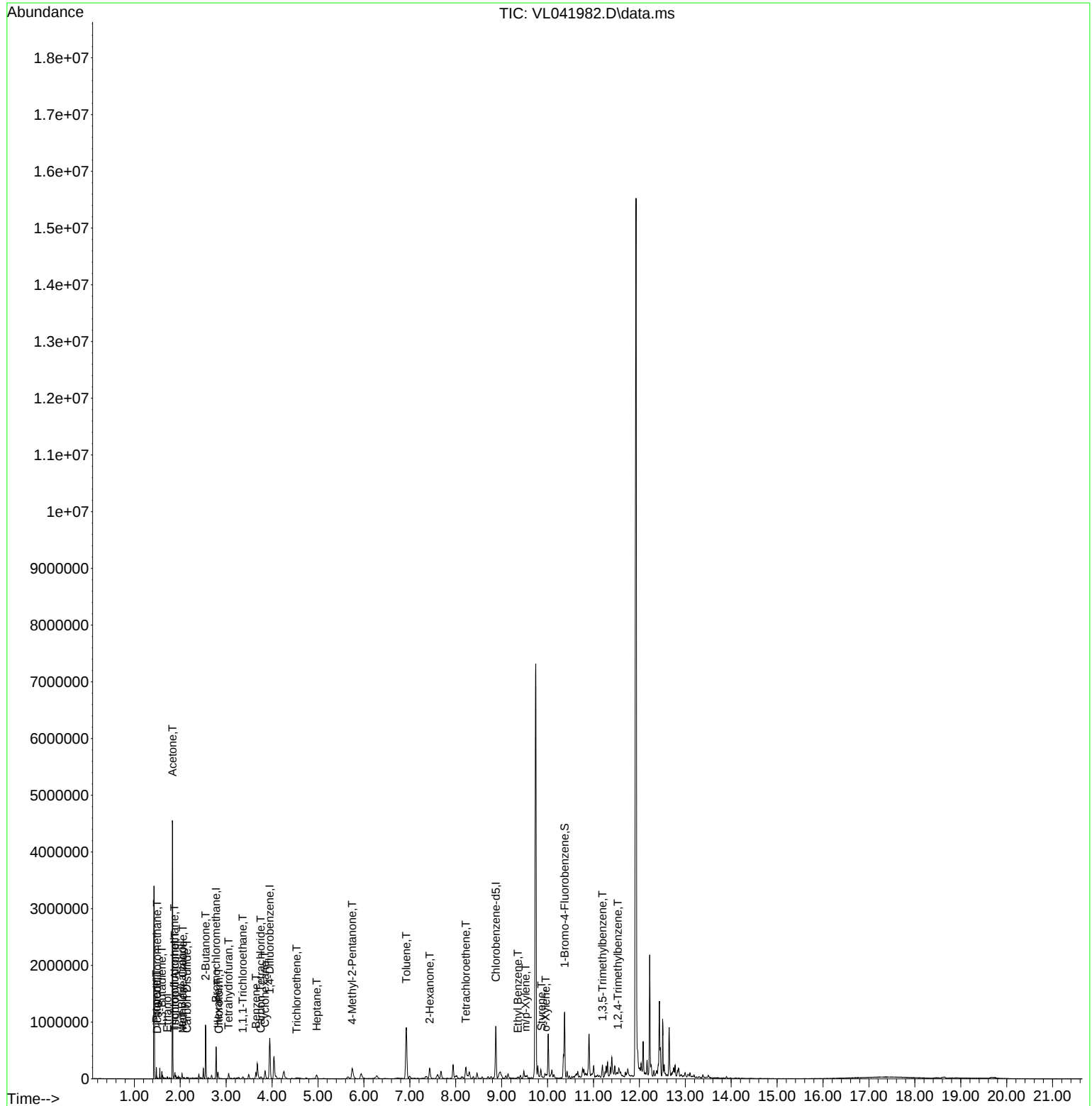
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041982.D
Acq On : 10 Feb 2025 12:04
Operator : SY/MD
Sample : Q1302-01 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

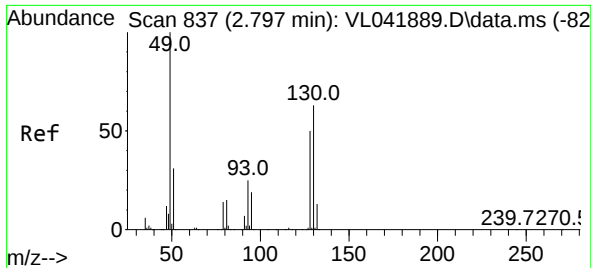
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

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

Quant Time: Feb 11 01:21:04 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





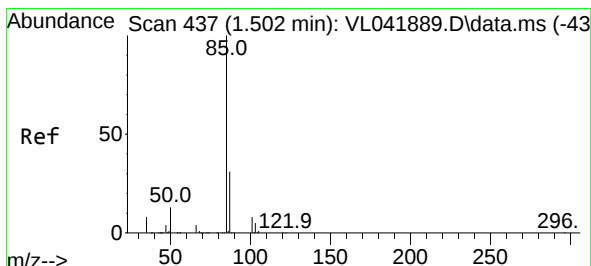
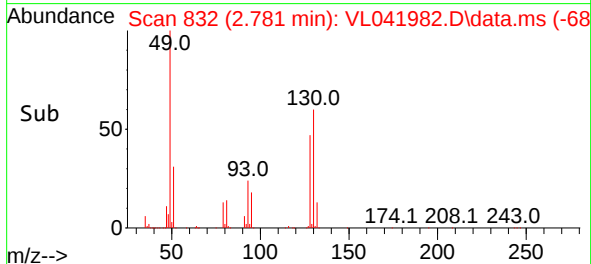
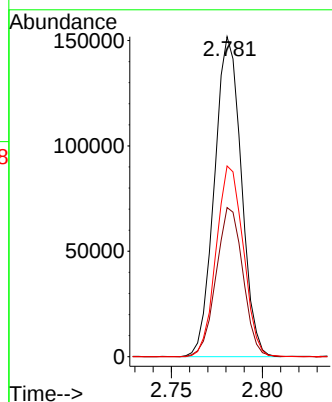
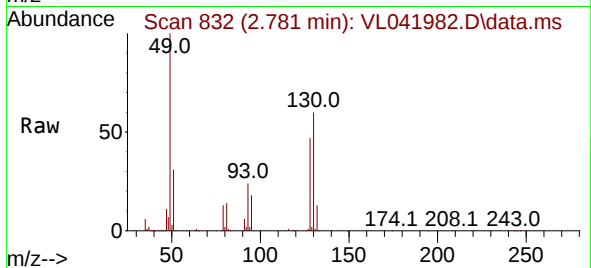
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.781 min Scan# 81
Delta R.T. -0.016 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 49 Resp: 15556
Ion Ratio Lower Upper
49 100
128 46.5 24.3 73.0
130 60.2 31.1 93.2

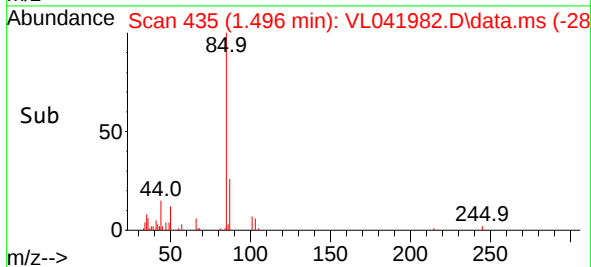
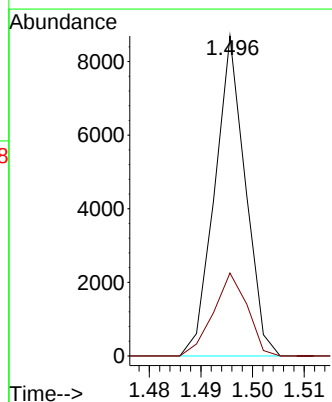
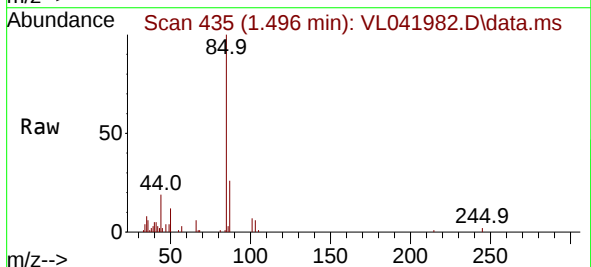
Manual Integrations
APPROVED

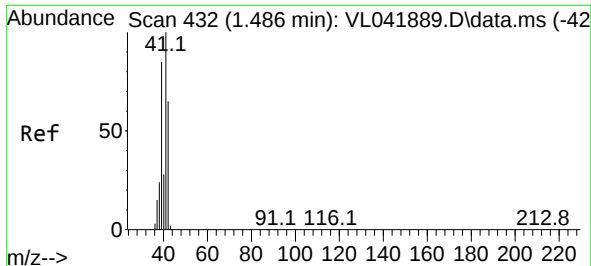
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.169 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

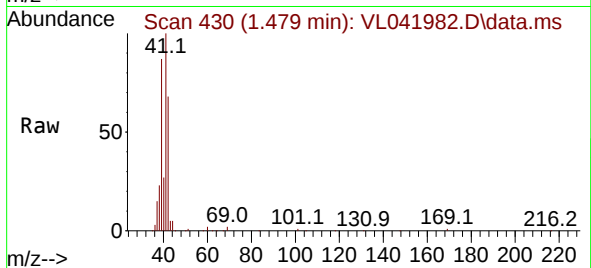
Tgt Ion: 85 Resp: 3575
Ion Ratio Lower Upper
85 100
87 25.9 24.9 37.3





#9
Propene
Concen: 3.303 ppbv
RT: 1.479 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

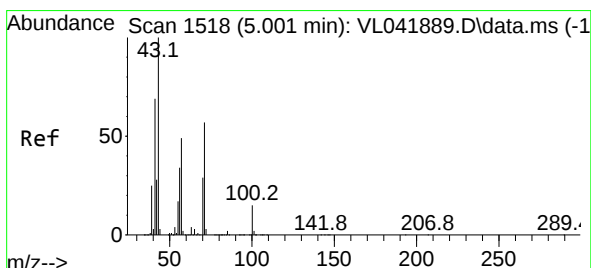
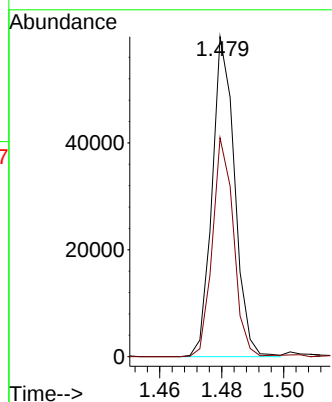
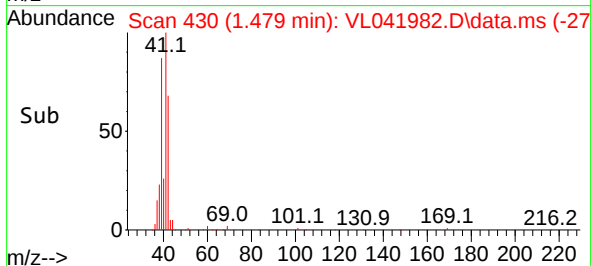
Instrument :
MSVOA_L
ClientSampleId :
SV1



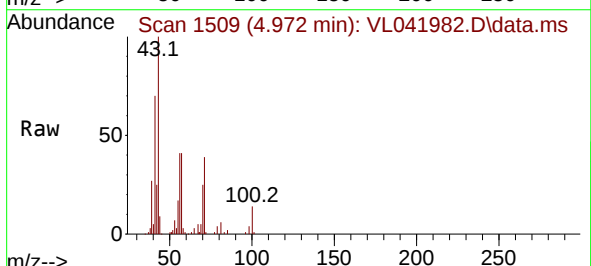
Tgt Ion: 41 Resp: 30208
Ion Ratio Lower Upper
41 100
42 65.1 52.0 78.0

Manual Integrations
APPROVED

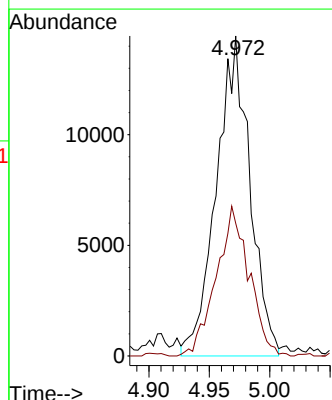
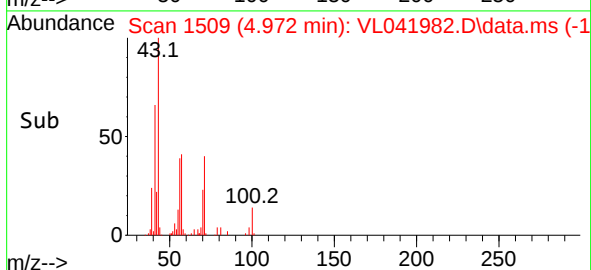
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

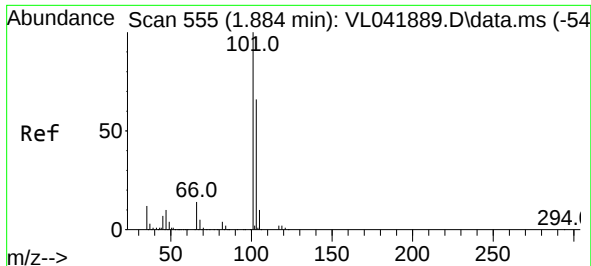


#10
Heptane
Concen: 1.141 ppbv m
RT: 4.972 min Scan# 1509
Delta R.T. -0.029 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04



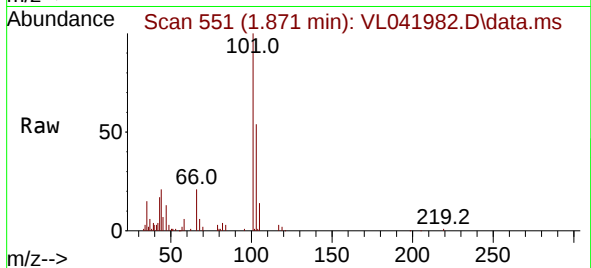
Tgt Ion: 43 Resp: 27899
Ion Ratio Lower Upper
43 100
57 46.7 41.0 61.4





#11
Trichlorofluoromethane
Concen: 0.457 ppbv m
RT: 1.871 min Scan# 504
Delta R.T. -0.013 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

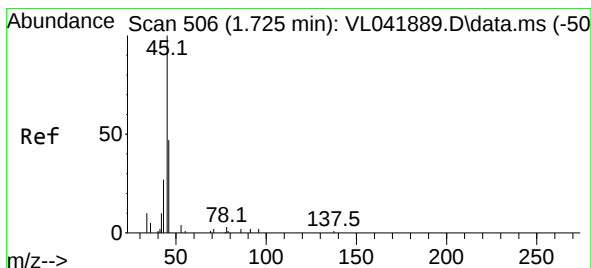
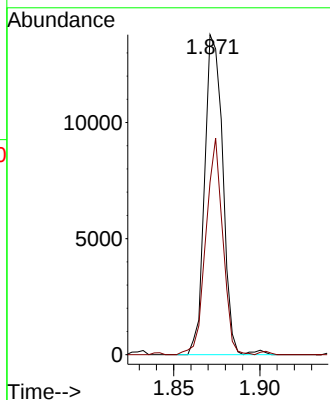
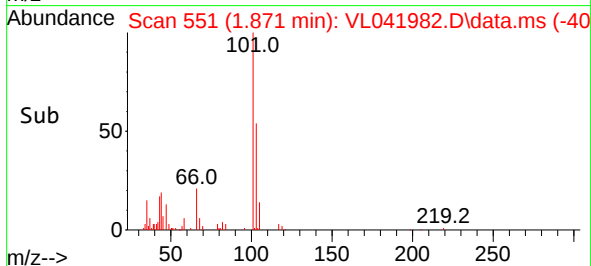
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:101 Resp: 10069
Ion Ratio Lower Upper
101 100
103 53.9 53.1 79.7

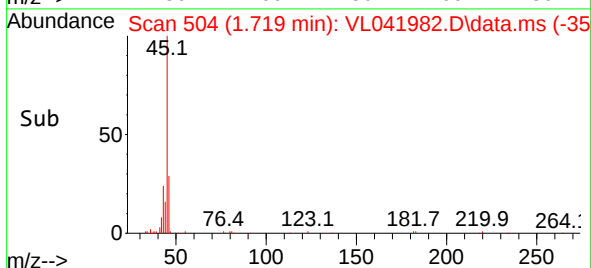
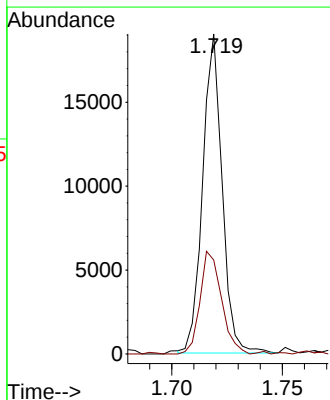
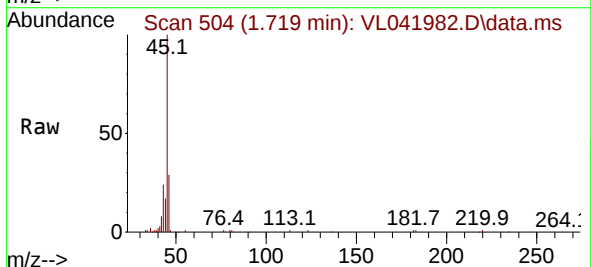
Manual Integrations
APPROVED

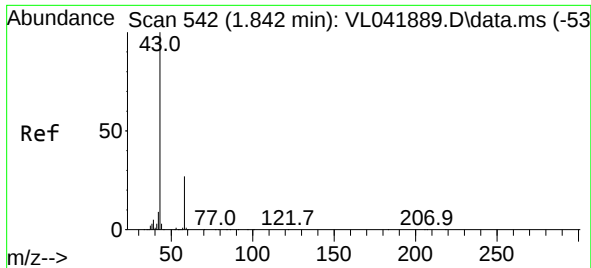
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#13
Ethanol
Concen: 17.336 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.006 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

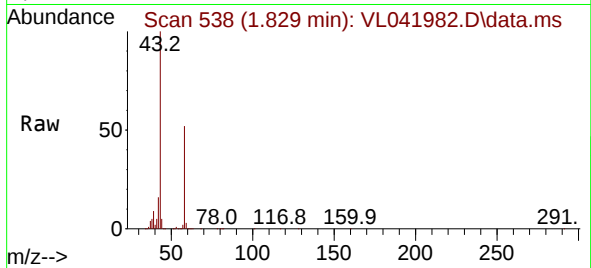
Tgt Ion: 45 Resp: 11612
Ion Ratio Lower Upper
45 100
46 37.1 18.1 72.5





#15
Acetone
Concen: 102.647 ppbv
RT: 1.829 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

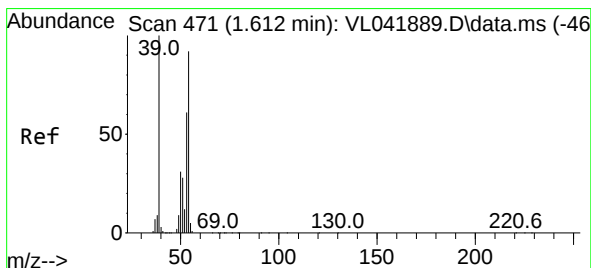
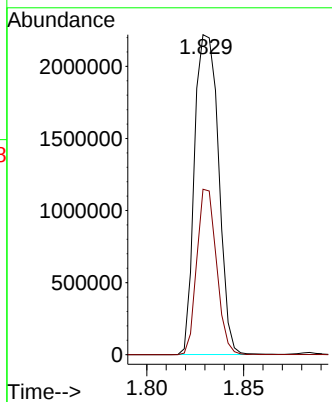
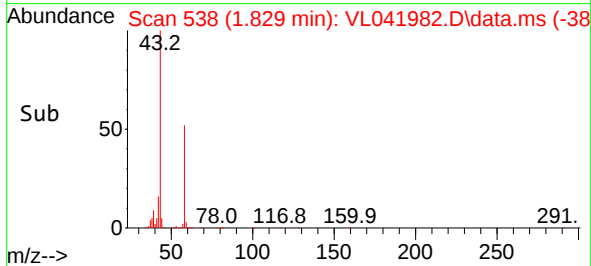
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 1917960
Ion Ratio Lower Upper
43 100
58 42.6 21.9 32.9

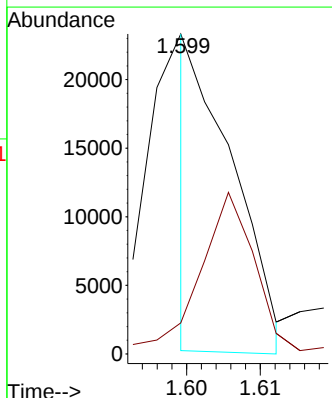
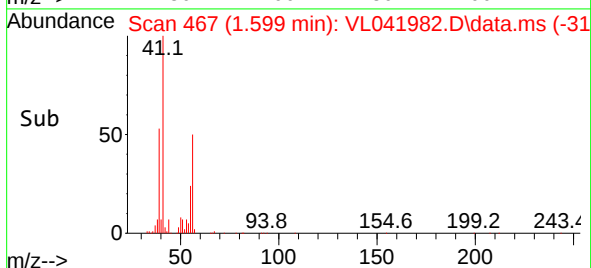
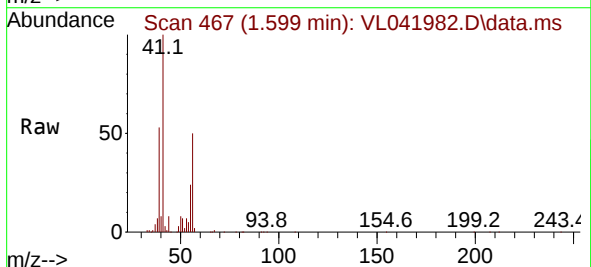
Manual Integrations
APPROVED

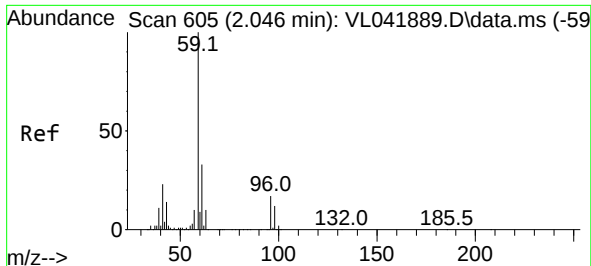
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#16
1,3-Butadiene
Concen: 1.041 ppbv m
RT: 1.599 min Scan# 467
Delta R.T. -0.013 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

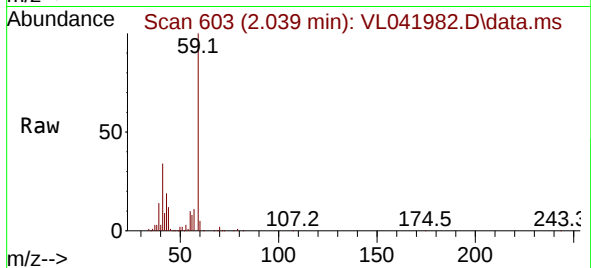
Tgt Ion: 39 Resp: 8730
Ion Ratio Lower Upper
39 100
54 79.0 61.6 92.4





#17
tert-Butyl alcohol
Concen: 1.302 ppbv
RT: 2.039 min Scan# 605
Delta R.T. -0.006 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

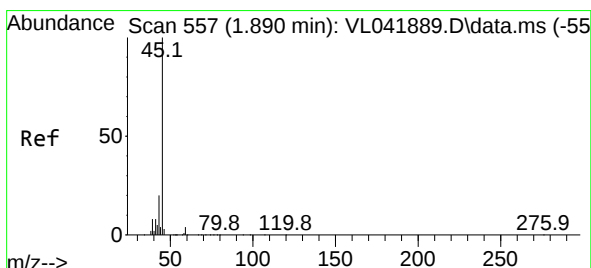
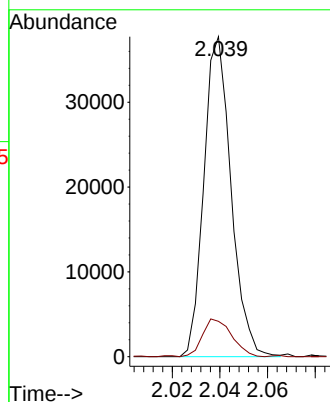
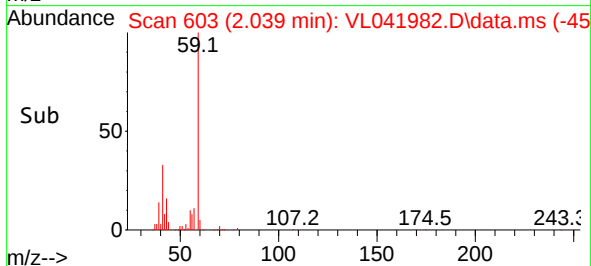
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 59 Resp: 29952
Ion Ratio Lower Upper
59 100
57 12.9 7.8 11.8

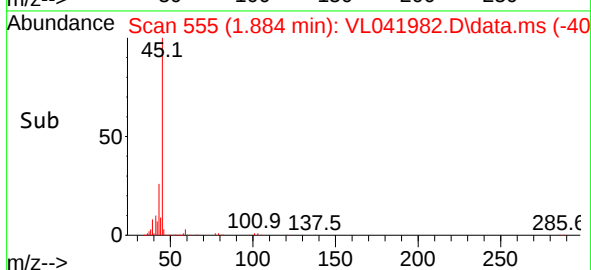
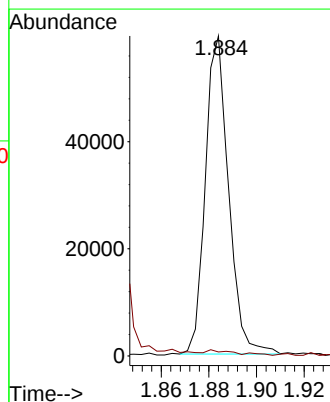
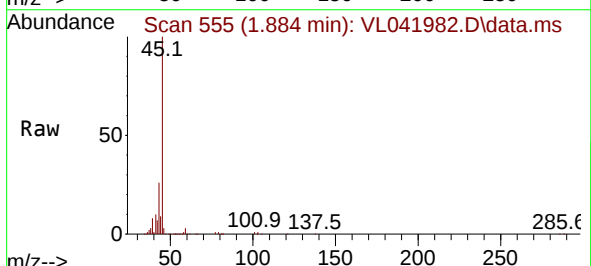
Manual Integrations
APPROVED

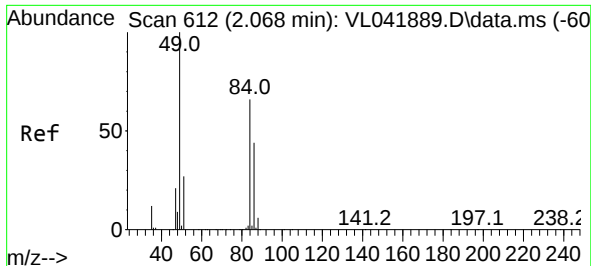
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#19
Isopropyl Alcohol
Concen: 3.637 ppbv
RT: 1.884 min Scan# 555
Delta R.T. -0.006 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

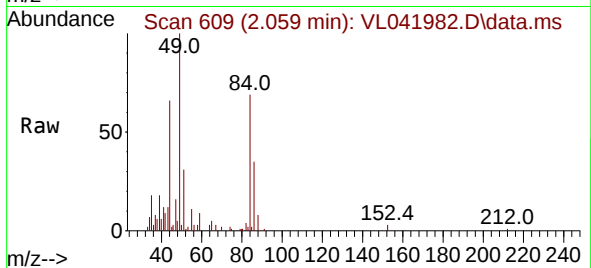
Tgt Ion: 45 Resp: 40295
Ion Ratio Lower Upper
45 100
58 0.0 35.0 52.6





#20
Methylene Chloride
Concen: 0.290 ppbv
RT: 2.059 min Scan# 612
Delta R.T. -0.010 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

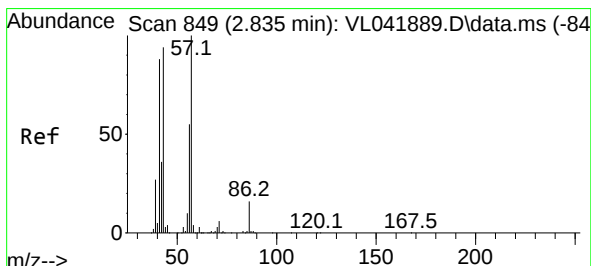
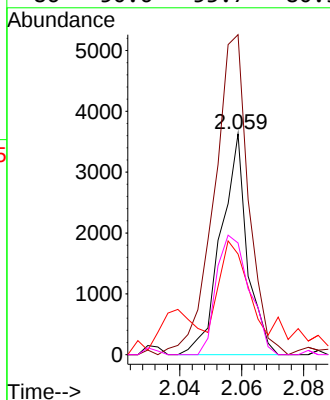
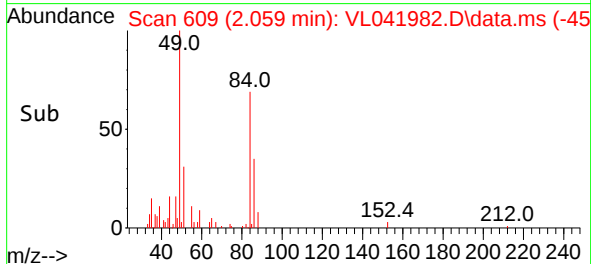
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 84 Resp: 214
Ion Ratio Lower Upper
84 100
49 140.9 123.1 184.7
51 28.6 35.8 53.8
86 50.6 53.7 80.5#

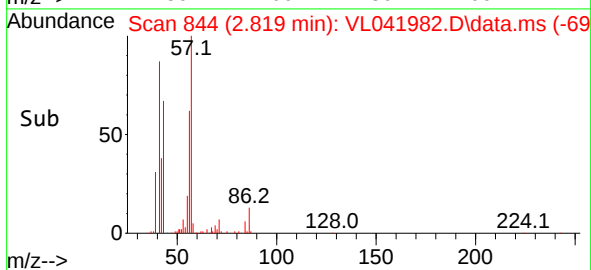
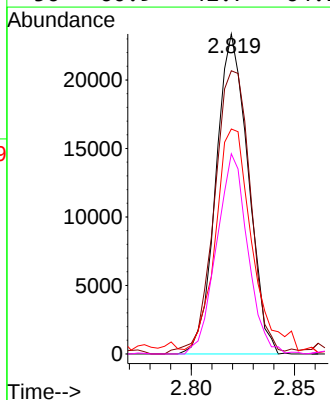
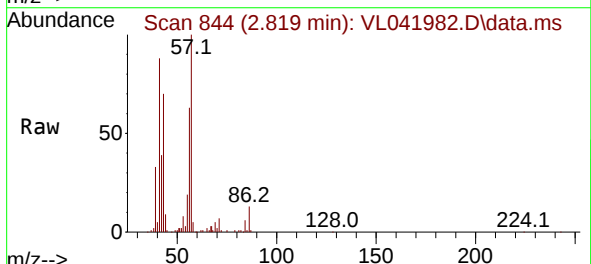
Manual Integrations
APPROVED

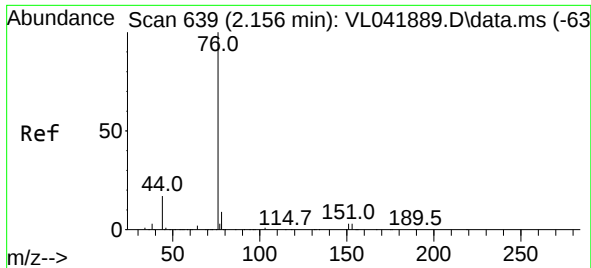
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#26
Hexane
Concen: 1.270 ppbv
RT: 2.819 min Scan# 844
Delta R.T. -0.016 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Tgt Ion: 57 Resp: 25305
Ion Ratio Lower Upper
57 100
41 99.9 73.8 110.8
43 79.4 197.3 295.9#
56 60.9 42.7 64.1





#27

Carbon Disulfide

Concen: 0.548 ppbv

RT: 2.146 min Scan# 61

Delta R.T. -0.010 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Instrument :

MSVOA_L

ClientSampleId :

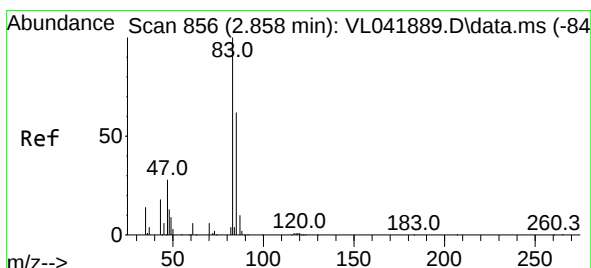
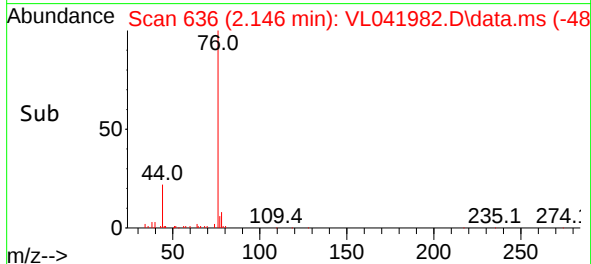
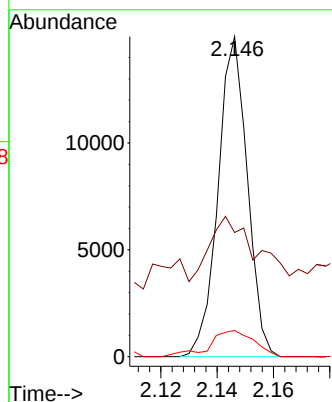
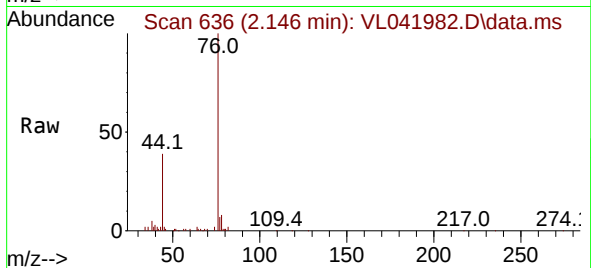
SV1

Tgt Ion:	76	Resp:	1080
Ion	Ratio	Lower	Upper
76	100		
44	44.2	15.4	23.0
78	12.9	9.3	13.9

Manual Integrations

APPROVED

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



#29

Chloroform

Concen: 0.165 ppbv

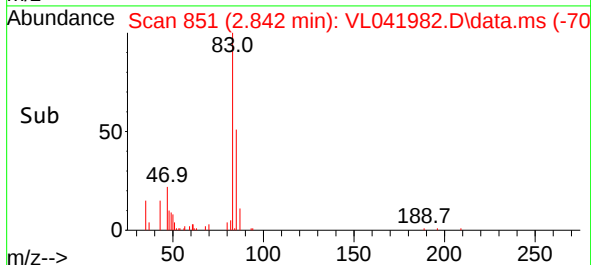
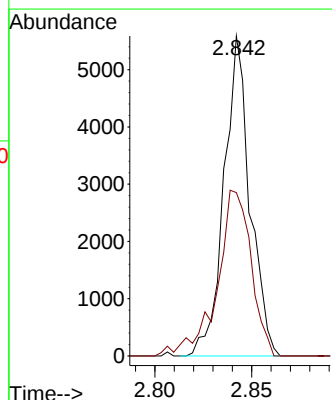
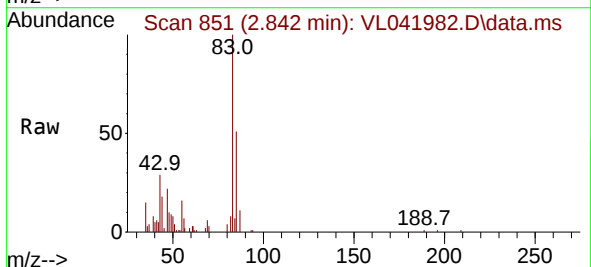
RT: 2.842 min Scan# 851

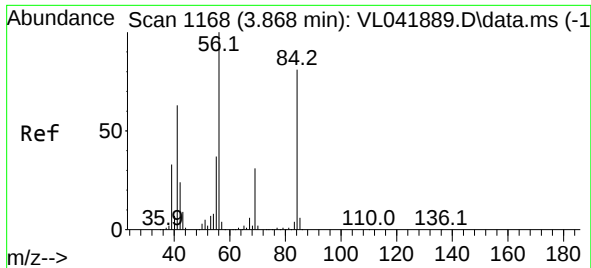
Delta R.T. -0.016 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

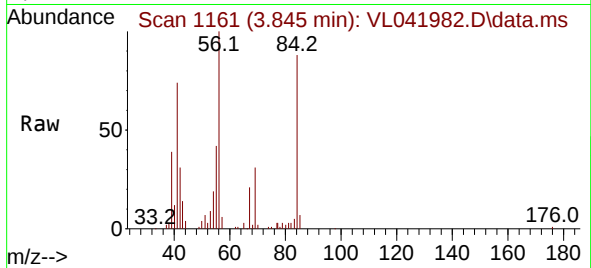
Tgt Ion:	83	Resp:	5210
Ion	Ratio	Lower	Upper
83	100		
85	51.1	50.1	75.1





#30
Cyclohexane
Concen: 1.944 ppbv
RT: 3.845 min Scan# 1161
Delta R.T. -0.023 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

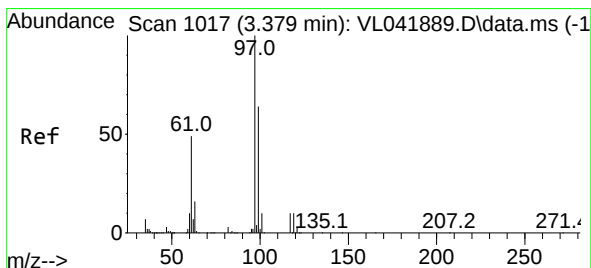
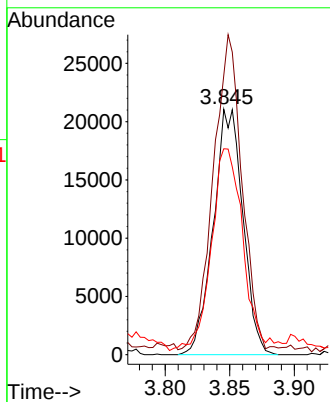
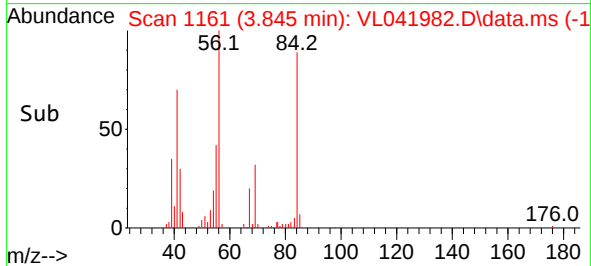
Instrument :
MSVOA_L
ClientSampleId :
SV1



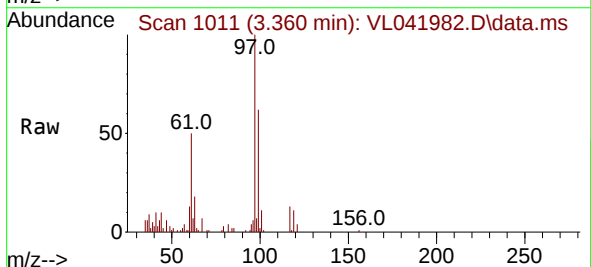
Tgt Ion: 84 Resp: 33594
Ion Ratio Lower Upper
84 100
56 125.3 99.3 148.9
41 92.2 64.3 96.5

Manual Integrations
APPROVED

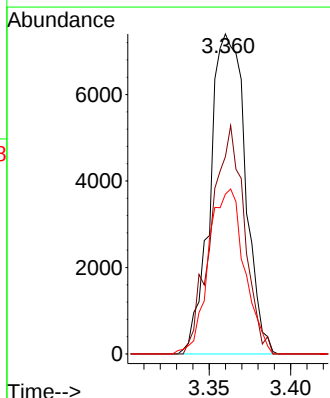
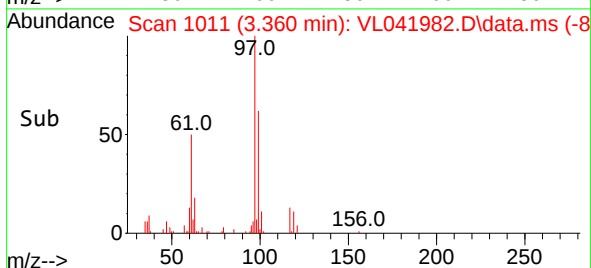
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

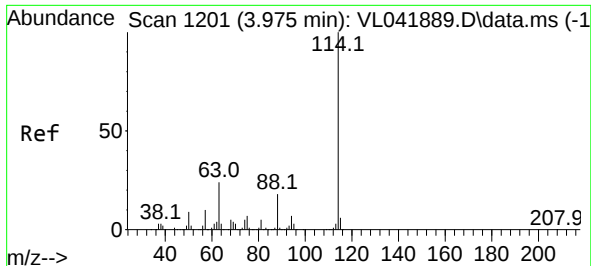


#32
1,1,1-Trichloroethane
Concen: 0.369 ppbv
RT: 3.360 min Scan# 1011
Delta R.T. -0.019 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04



Tgt Ion: 97 Resp: 11119
Ion Ratio Lower Upper
97 100
99 67.0 51.1 76.7
61 52.5 39.0 58.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.026 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 428130

Ion Ratio Lower Upper

114 100

63 24.5 19.8 29.6

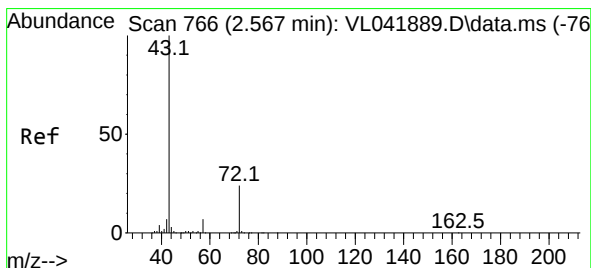
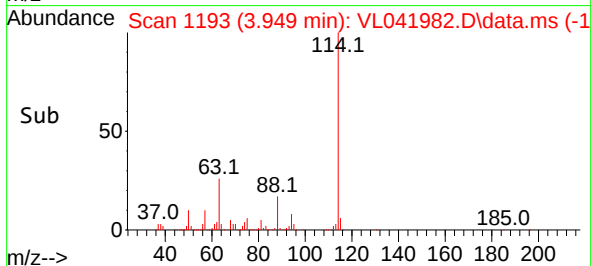
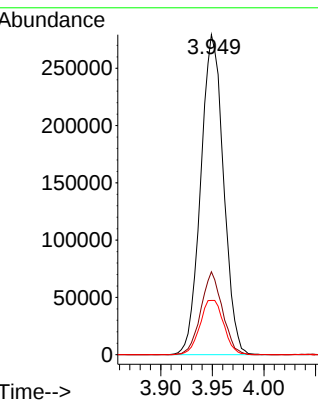
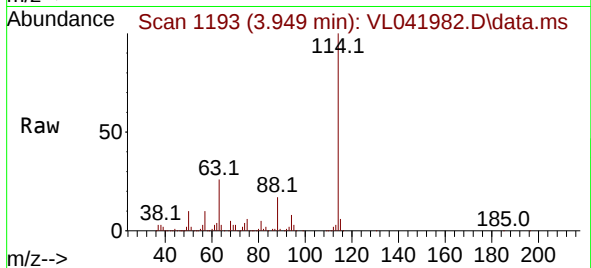
88 17.7 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

2-Butanone

Concen: 20.948 ppbv

RT: 2.551 min Scan# 761

Delta R.T. -0.016 min

Lab File: VL041982.D

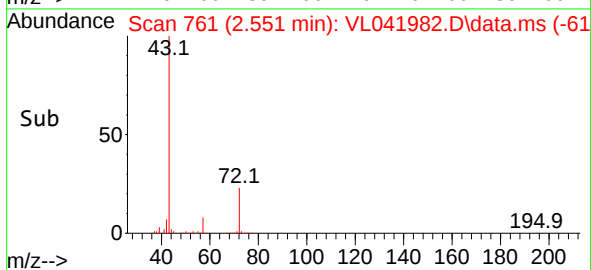
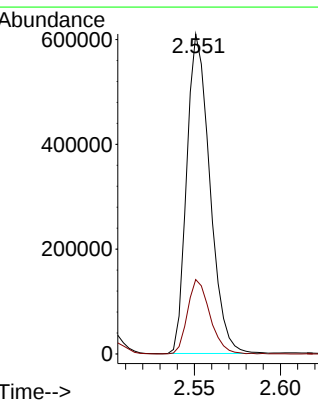
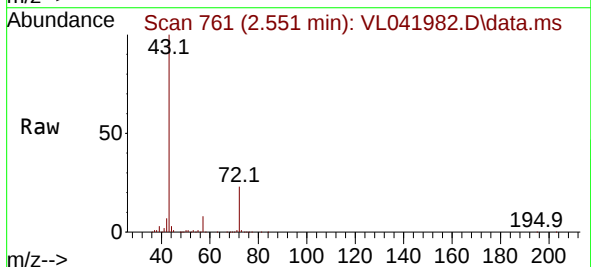
Acq: 10 Feb 2025 12:04

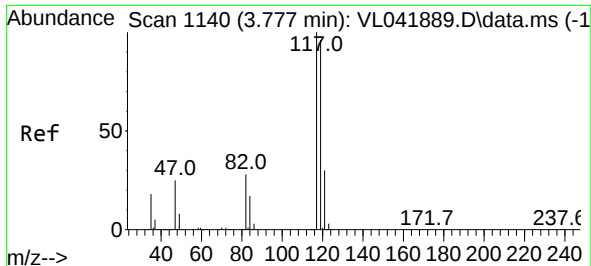
Tgt Ion: 43 Resp: 570350

Ion Ratio Lower Upper

43 100

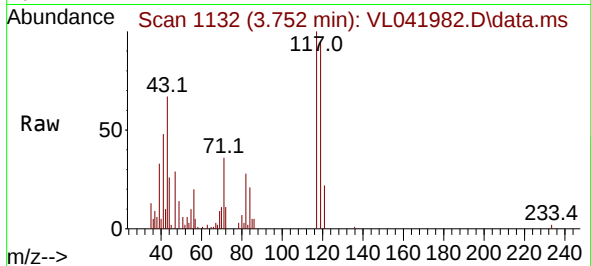
72 22.7 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.285 ppbv
RT: 3.752 min Scan# 1132
Delta R.T. -0.026 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

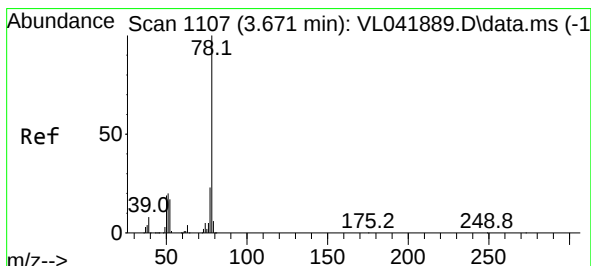
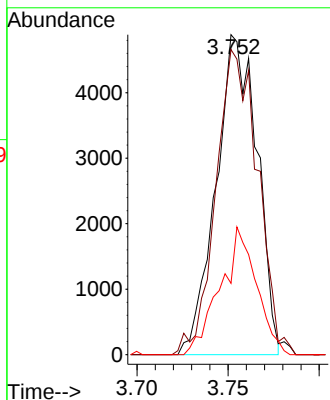
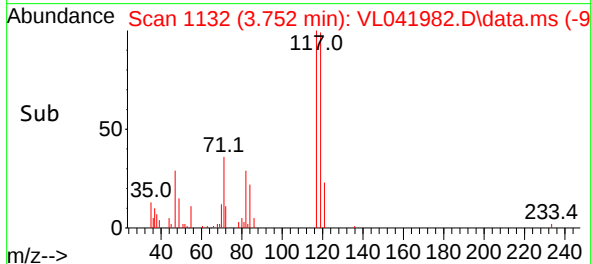
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 117 Resp: 7660
Ion Ratio Lower Upper
117 100
119 94.1 76.9 115.3
121 22.3 23.8 35.6

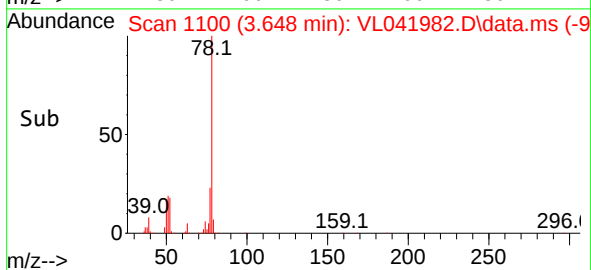
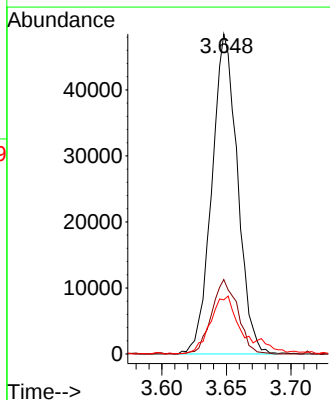
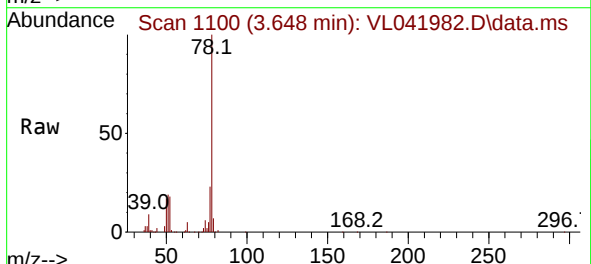
Manual Integrations
APPROVED

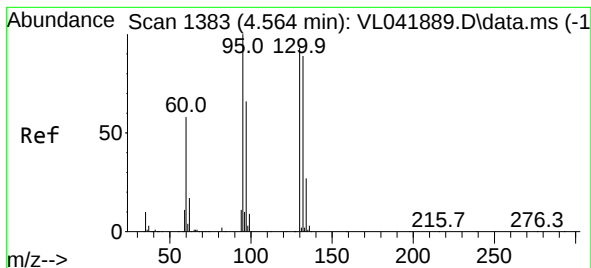
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#36
Benzene
Concen: 1.704 ppbv
RT: 3.648 min Scan# 1100
Delta R.T. -0.023 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Tgt Ion: 78 Resp: 66904
Ion Ratio Lower Upper
78 100
77 23.2 18.1 27.1
50 16.7 15.2 22.8





#38

Trichloroethene

Concen: 0.041 ppbv m

RT: 4.535 min Scan# 1

Delta R.T. -0.029 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Instrument :

MSVOA_L

ClientSampleId :

SV1

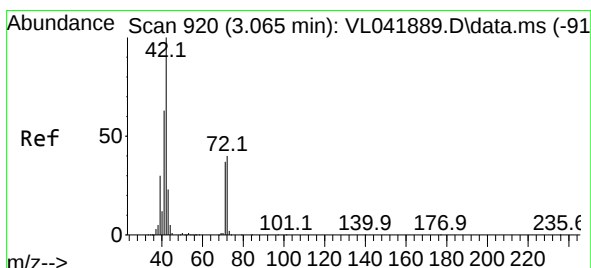
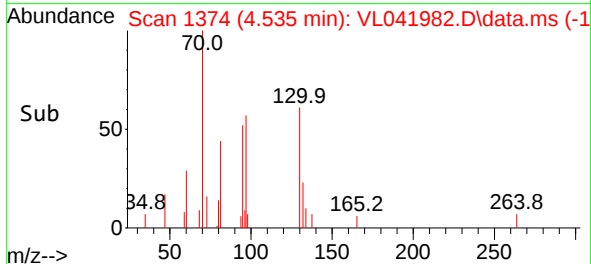
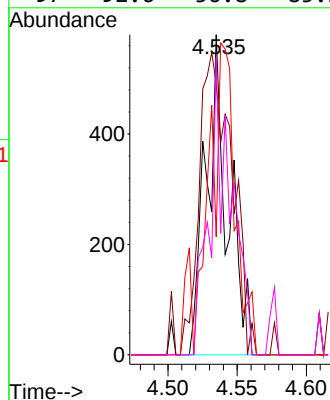
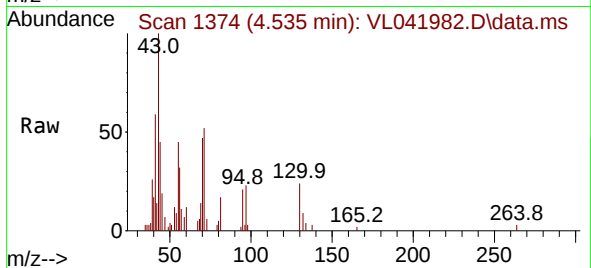
Tgt Ion:	130	Resp:	630
Ion	Ratio	Lower	Upper
130	100		
95	84.8	85.8	128.8
132	36.9	76.5	114.7
97	92.6	56.8	85.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#41

Tetrahydrofuran

Concen: 1.260 ppbv

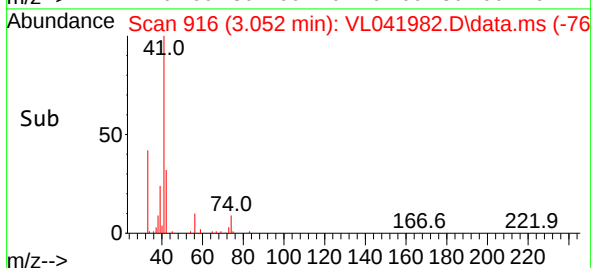
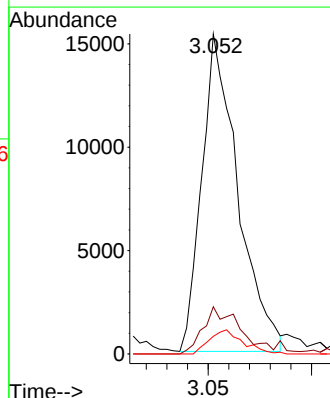
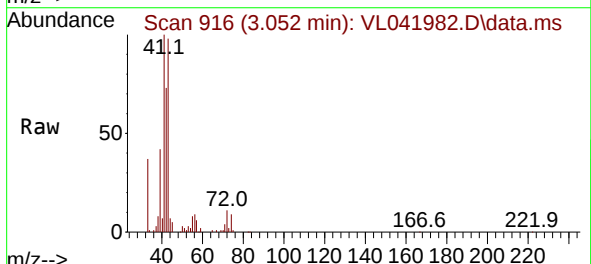
RT: 3.052 min Scan# 916

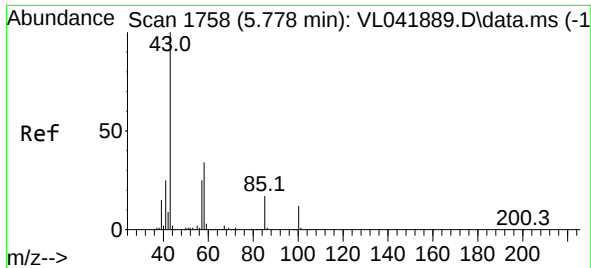
Delta R.T. -0.013 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Tgt Ion:	42	Resp:	18643
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5
71	7.1	29.9	44.9





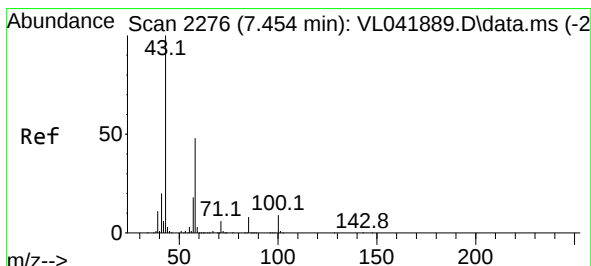
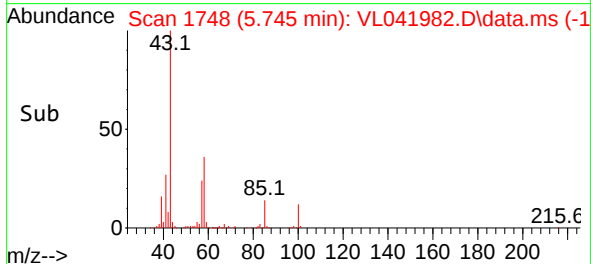
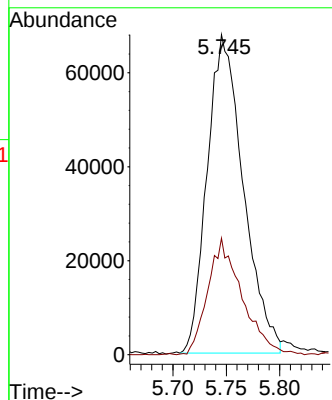
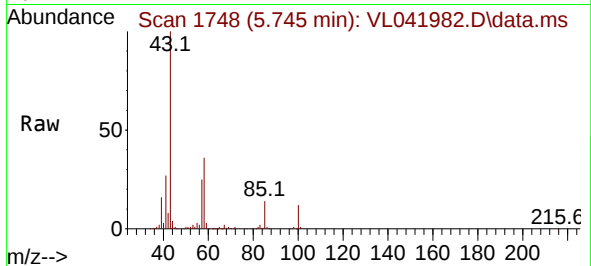
#50
4-Methyl-2-Pentanone
Concen: 4.300 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.032 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 15984
Ion Ratio Lower Upper
43 100
58 34.6 29.0 43.6

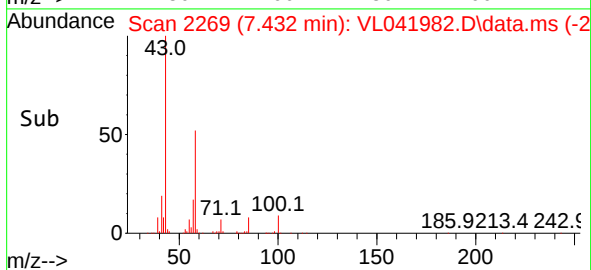
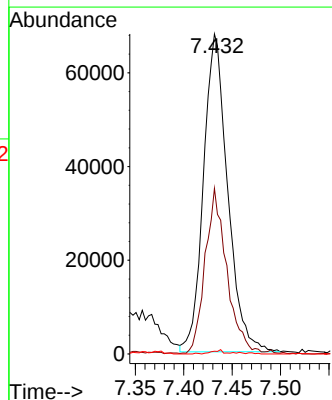
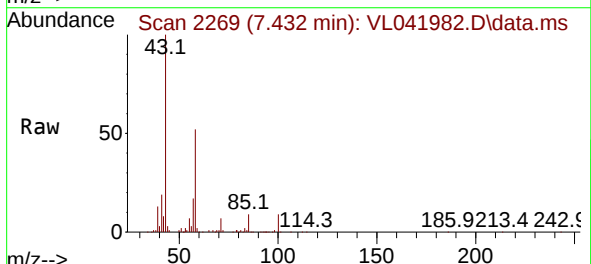
Manual Integrations
APPROVED

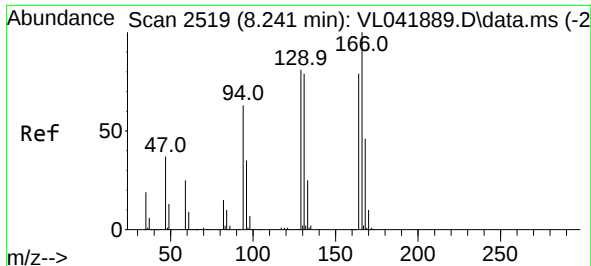
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#51
2-Hexanone
Concen: 4.132 ppbv
RT: 7.432 min Scan# 2269
Delta R.T. -0.023 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

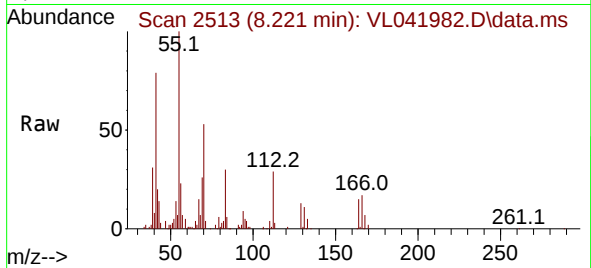
Tgt Ion: 43 Resp: 118021
Ion Ratio Lower Upper
43 100
58 47.2 40.4 60.6
98 0.9 0.2 0.2#





#52
Tetrachloroethene
Concen: 0.532 ppbv m
RT: 8.221 min Scan# 2112
Delta R.T. -0.019 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

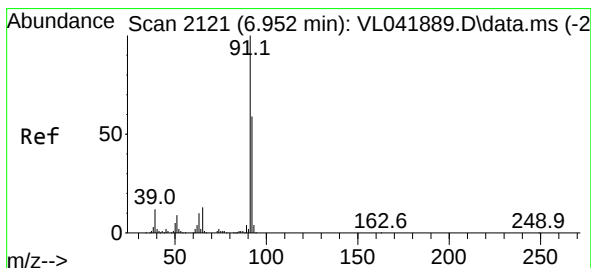
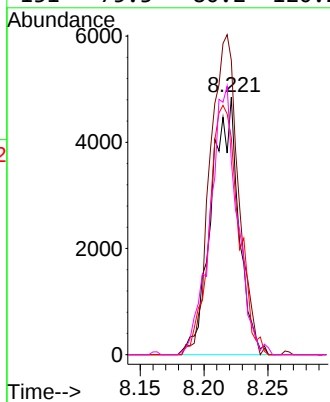
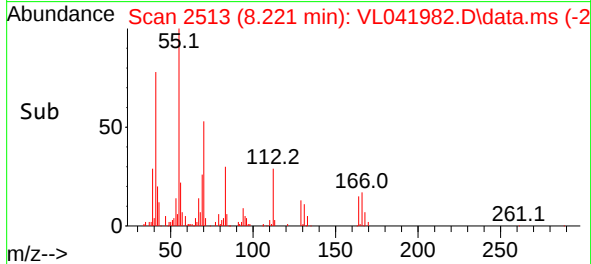
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:164 Resp: 7240
Ion Ratio Lower Upper
164 100
166 114.4 100.8 151.2
129 84.2 82.0 123.0
131 75.3 80.2 120.2#

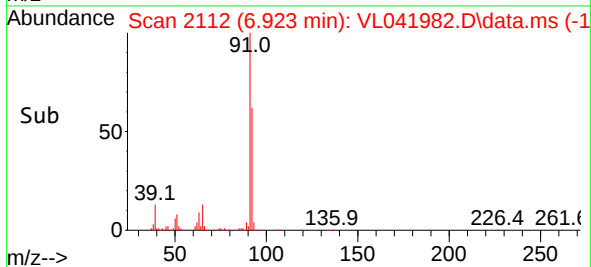
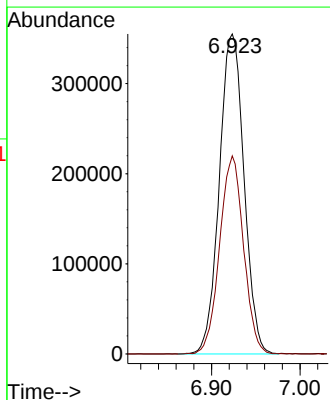
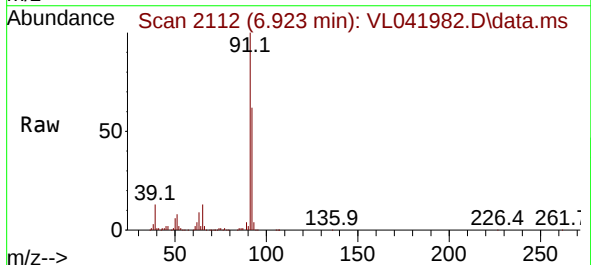
Manual Integrations
APPROVED

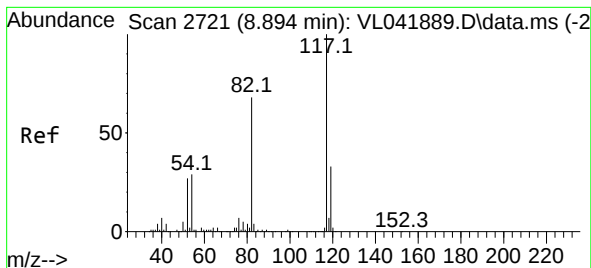
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#53
Toluene
Concen: 16.105 ppbv
RT: 6.923 min Scan# 2112
Delta R.T. -0.029 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Tgt Ion: 91 Resp: 688874
Ion Ratio Lower Upper
91 100
92 59.9 47.4 71.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.872 min Scan# 21

Delta R.T. -0.023 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Instrument :

MSVOA_L

ClientSampleId :

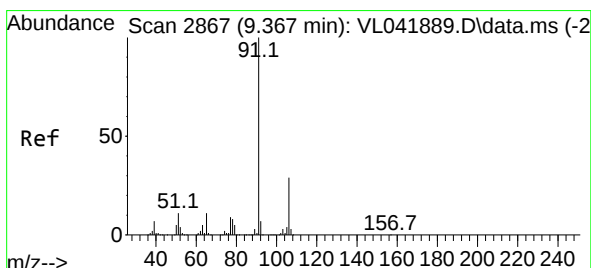
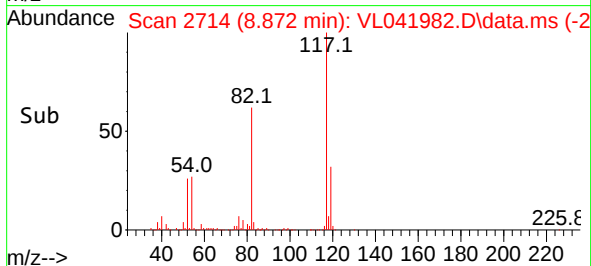
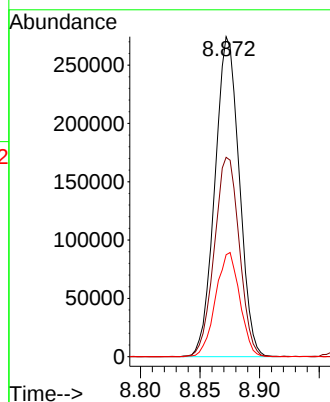
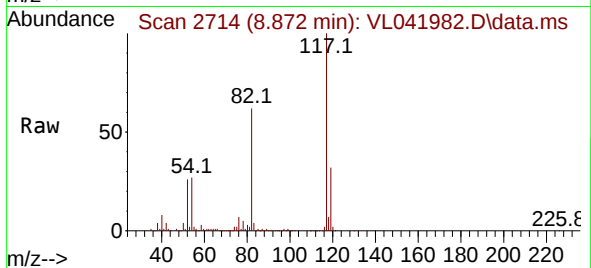
SV1

Tgt Ion:	117	Resp:	38992
Ion	Ratio	Lower	Upper
117	100		
82	64.0	54.2	81.4
119	32.3	25.0	37.6

Manual Integrations

APPROVED

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



#58

Ethyl Benzene

Concen: 0.176 ppbv m

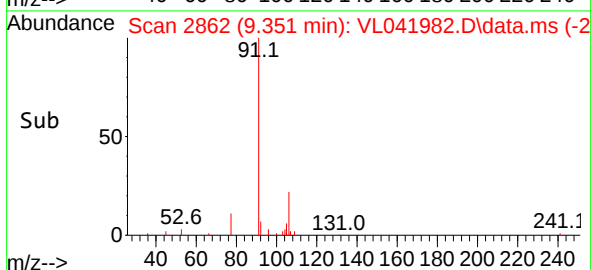
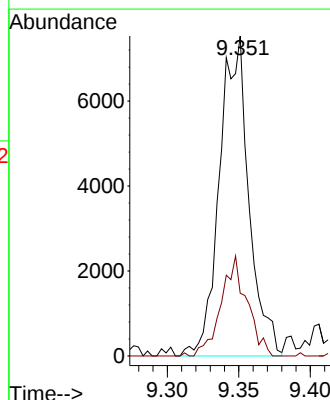
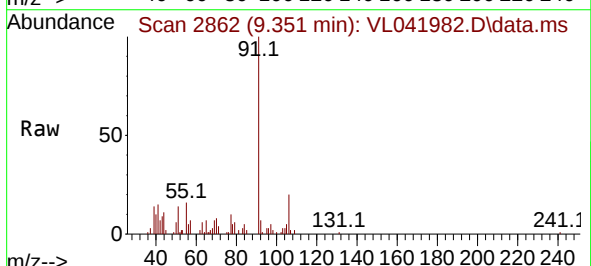
RT: 9.351 min Scan# 2862

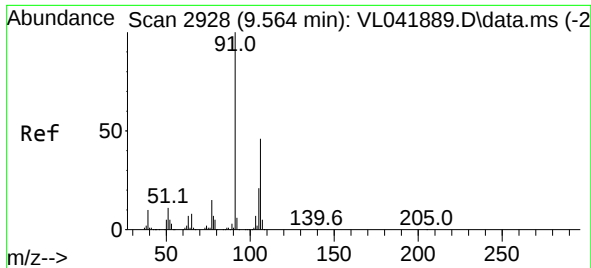
Delta R.T. -0.016 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Tgt Ion:	91	Resp:	10750
Ion	Ratio	Lower	Upper
91	100		
106	19.6	23.1	34.7#





#59

m/p-Xylene

Concen: 0.490 ppbv m

RT: 9.522 min Scan# 2915

Delta R.T. -0.042 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 91 Resp: 23924

Ion Ratio Lower Upper

91 100

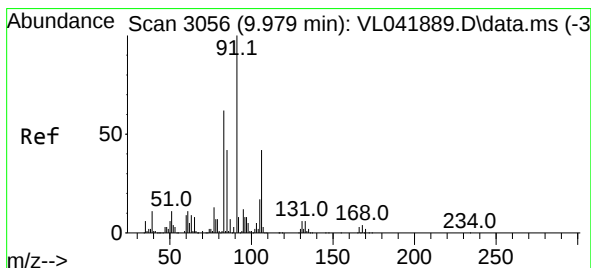
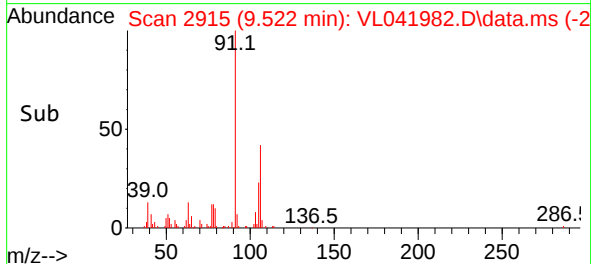
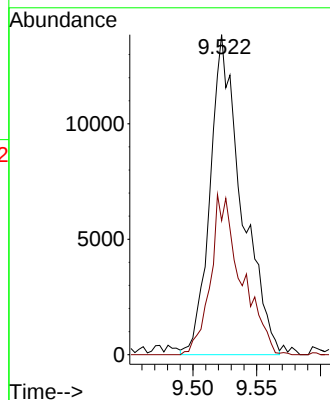
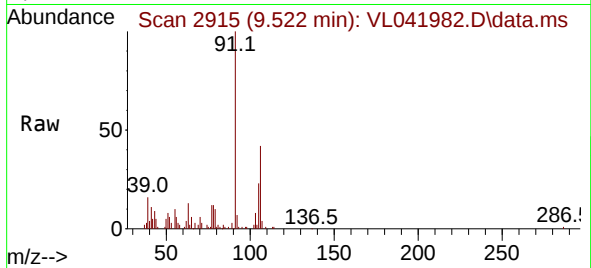
106 0.0 36.0 54.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#60

o-Xylene

Concen: 0.232 ppbv

RT: 9.959 min Scan# 3050

Delta R.T. -0.019 min

Lab File: VL041982.D

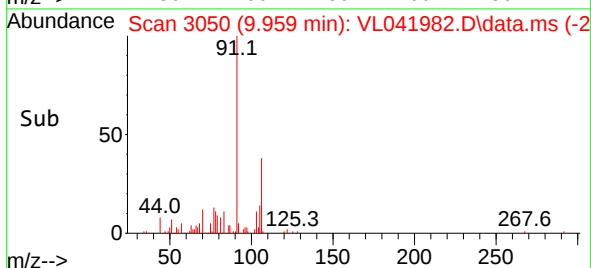
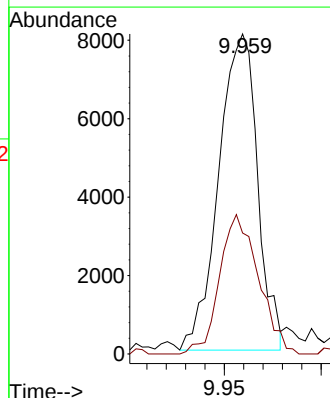
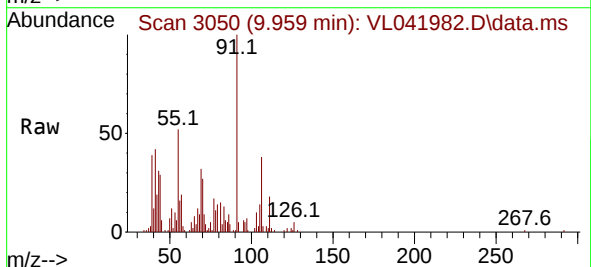
Acq: 10 Feb 2025 12:04

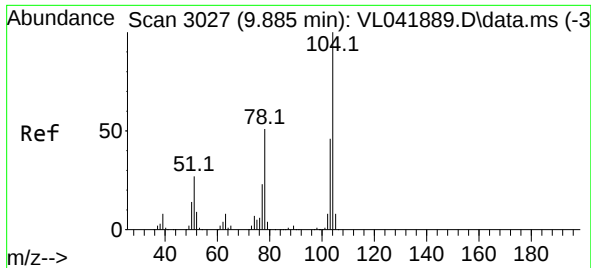
Tgt Ion: 91 Resp: 11257

Ion Ratio Lower Upper

91 100

106 44.1 21.3 63.9





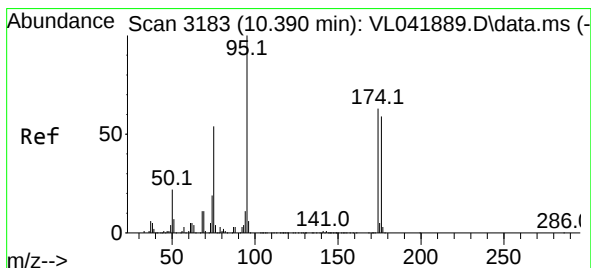
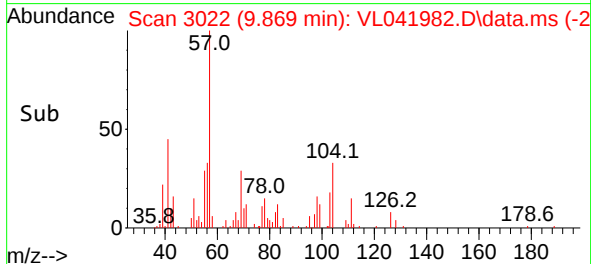
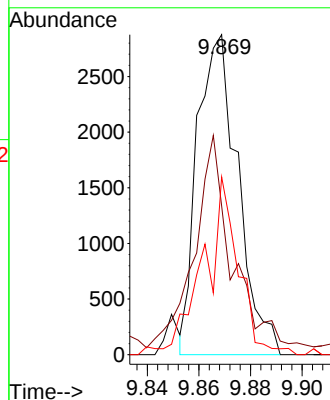
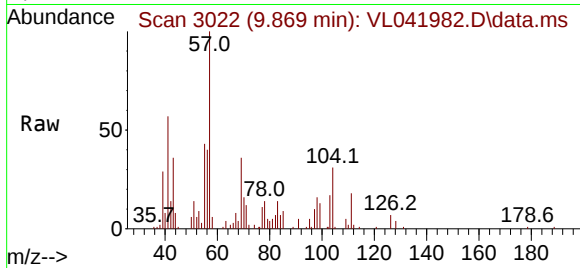
#61
Styrene
Concen: 0.144 ppbv
RT: 9.869 min Scan# 3027
Delta R.T. -0.016 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion:104 Resp: 3142
Ion Ratio Lower Upper
104 100
78 72.5 41.0 61.6
103 48.6 37.2 55.8

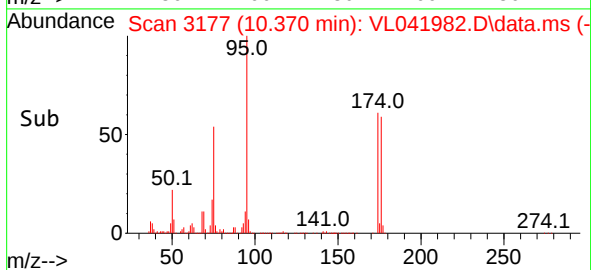
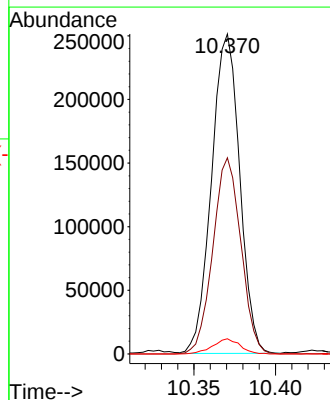
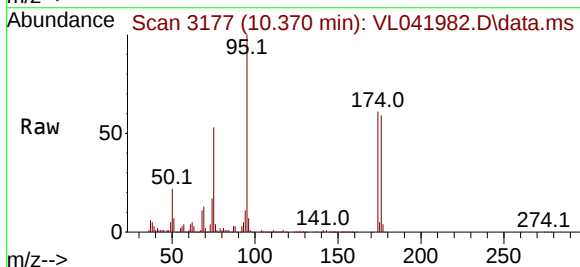
Manual Integrations
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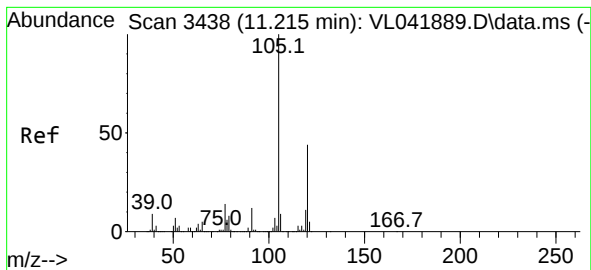
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.812 ppbv
RT: 10.370 min Scan# 3177
Delta R.T. -0.019 min
Lab File: VL041982.D
Acq: 10 Feb 2025 12:04

Tgt Ion: 95 Resp: 301330
Ion Ratio Lower Upper
95 100
174 61.0 49.0 73.4
175 4.6 3.8 5.8





#73

1,3,5-Trimethylbenzene

Concen: 0.117 ppbv

RT: 11.196 min Scan# 3438

Delta R.T. -0.019 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:105 Resp: 5988

Ion Ratio Lower Upper

105 100

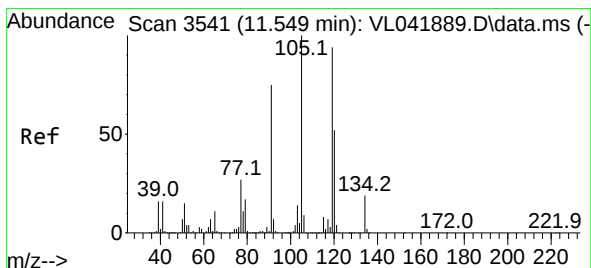
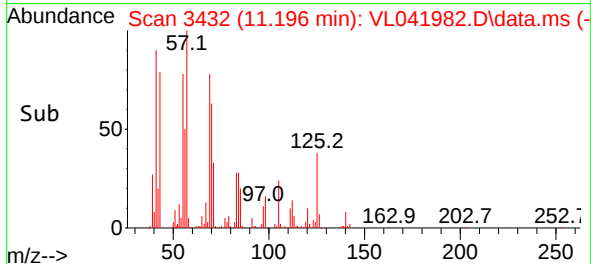
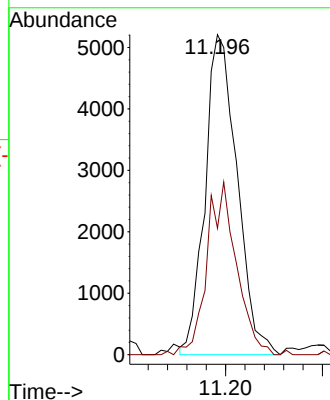
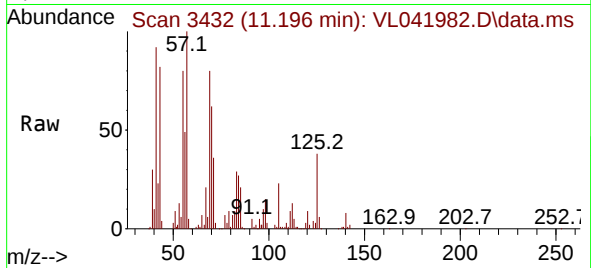
120 39.5 35.4 53.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#74

1,2,4-Trimethylbenzene

Concen: 0.223 ppbv

RT: 11.532 min Scan# 3536

Delta R.T. -0.016 min

Lab File: VL041982.D

Acq: 10 Feb 2025 12:04

Tgt Ion:105 Resp: 12379

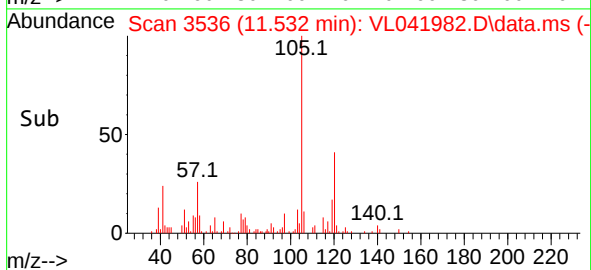
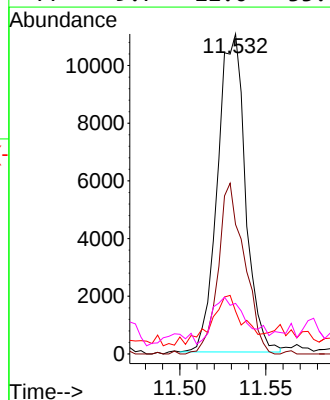
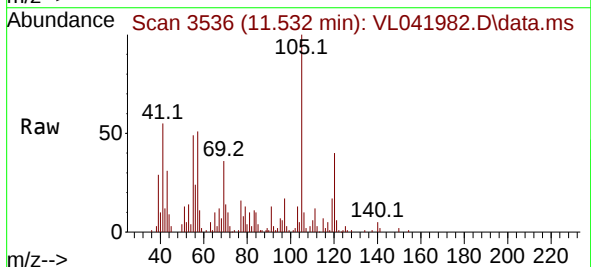
Ion Ratio Lower Upper

105 100

120 40.7 41.4 62.2#

91 8.1 60.2 90.2#

77 9.7 22.0 33.0#



Report of Analysis

Client:	GFE LLC	Date Collected:	02/05/25
Project:	55 Contant Ave Lodi, NJ	Date Received:	02/05/25
Client Sample ID:	SV2	SDG No.:	Q1302
Lab Sample ID:	Q1302-02	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
VL041983.D	4		02/10/25 12:35	VL021025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
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	0.78	4.26		0.22	0.65	ug/m3
79-01-6	Trichloroethene	0.070	0.38	U	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	1.20	8.14		0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.40			65 - 135	94%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000			2.784		
540-36-3	1,4-Difluorobenzene	438000			3.956		
3114-55-4	Chlorobenzene-d5	397000			8.875		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
 Data File : VL041983.D
 Acq On : 10 Feb 2025 12:35
 Operator : SY/MD
 Sample : Q1302-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:21:39 2025

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

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

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

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.784	49	157243	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	3.956	114	437860	10.000	ppbv	-0.02
55) Chlorobenzene-d5	8.875	117	397046	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	294844	9.428	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.496	85	3365	0.157	ppbv	98
9) Propene	1.483	41	5013	0.542	ppbv #	18
10) Heptane	4.975	43	32752	1.326	ppbv #	75
11) Trichlorofluoromethane	1.874	101	6980	0.313	ppbv	89
13) Ethanol	1.719	45	8857	13.082	ppbv #	31
15) Acetone	1.832	43	1229494	65.100	ppbv	92
17) tert-Butyl alcohol	2.039	59	10277	0.442	ppbv #	64
19) Isopropyl Alcohol	1.887	45	22138m	1.977	ppbv	
20) Methylene Chloride	2.062	84	1738	0.233	ppbv	94
26) Hexane	2.826	57	96344	4.783	ppbv #	38
27) Carbon Disulfide	2.146	76	4735	0.238	ppbv #	1
30) Cyclohexane	3.849	84	20134	1.152	ppbv	96
32) 1,1,1-Trichloroethane	3.370	97	5971m	0.196	ppbv	
34) 2-Butanone	2.557	43	101126	3.632	ppbv	100
35) Carbon Tetrachloride	3.758	117	2699m	0.098	ppbv	
36) Benzene	3.651	78	8195	0.204	ppbv	97
41) Tetrahydrofuran	3.059	42	32359	2.138	ppbv #	74
50) 4-Methyl-2-Pentanone	5.745	43	471471	12.403	ppbv	100
51) 2-Hexanone	7.435	43	101884	3.488	ppbv #	77
52) Tetrachloroethene	8.215	164	4269m	0.307	ppbv	
53) Toluene	6.927	91	802208	18.338	ppbv	99
58) Ethyl Benzene	9.351	91	96163	1.550	ppbv	99
59) m/p-Xylene	9.526	91	268033	5.389	ppbv	97
60) o-Xylene	9.959	91	149001	3.018	ppbv	98
62) Isopropylbenzene	10.536	105	69424	0.909	ppbv	99
64) n-propylbenzene	10.989	120	32576	1.688	ppbv	92
65) tert-Butylbenzene	11.536	119	58195	0.836	ppbv #	71
70) n-Butylbenzene	12.280	91	43820	0.560	ppbv #	67
73) 1,3,5-Trimethylbenzene	11.202	105	152349	2.921	ppbv	94
74) 1,2,4-Trimethylbenzene	11.536	105	487991	8.641	ppbv #	55

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041983.D
Acq On : 10 Feb 2025 12:35
Operator : SY/MD
Sample : Q1302-02 4X
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Manual Integrations
APPROVED

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

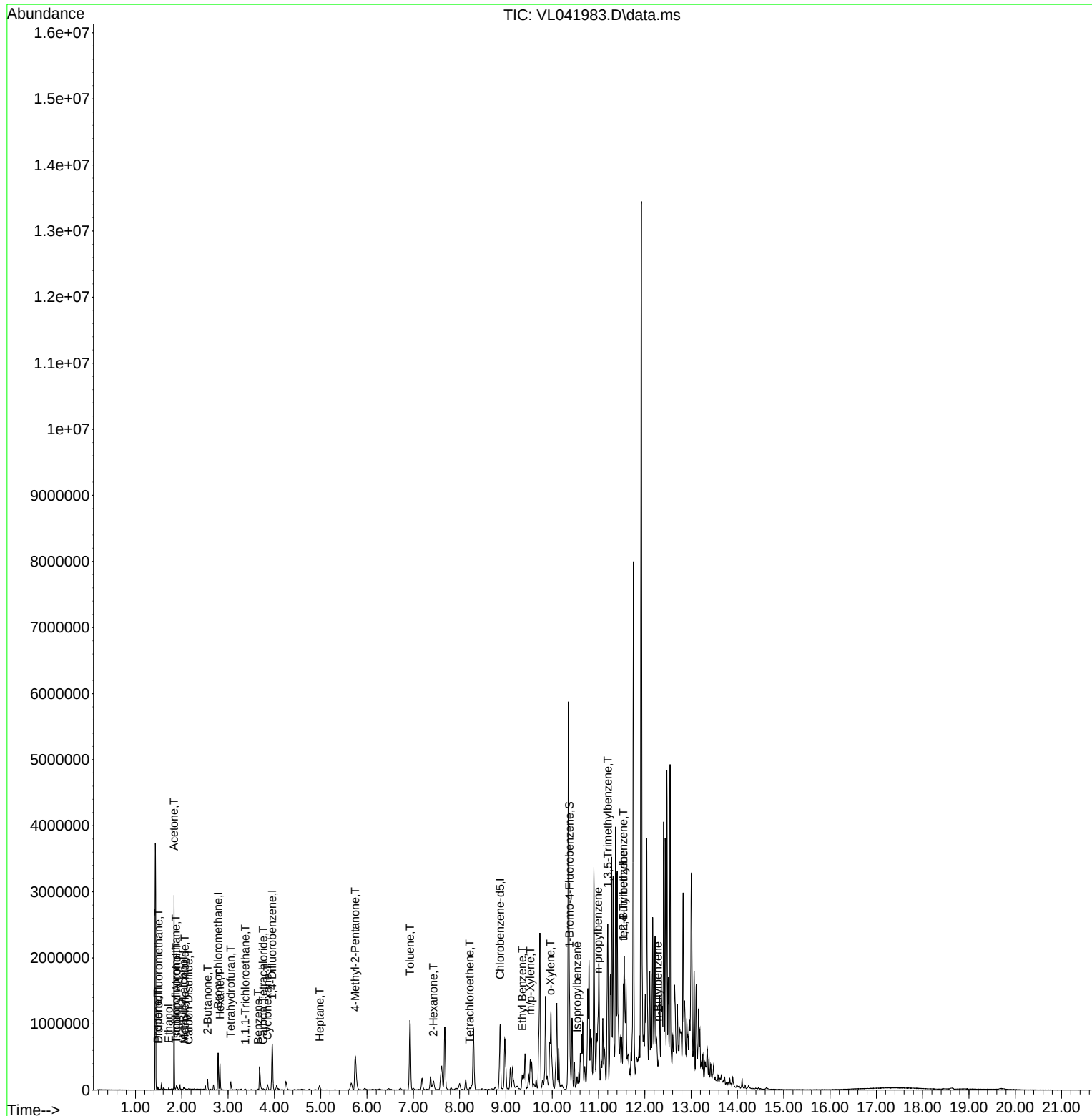
Quant Time: Feb 11 01:21:39 2025

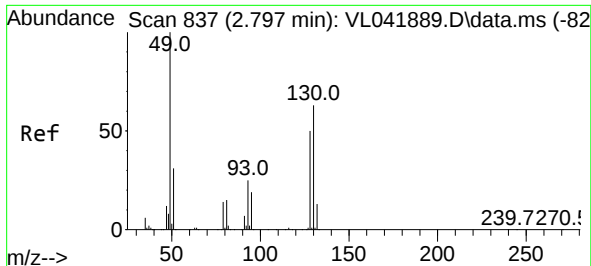
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M

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

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

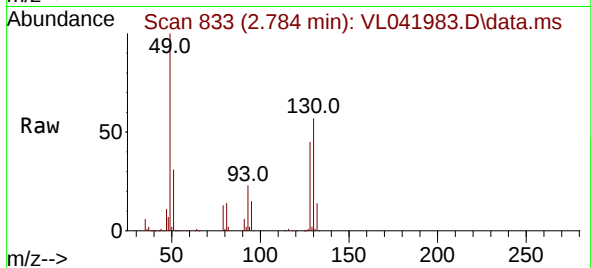
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.784 min Scan# 81
Delta R.T. -0.013 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

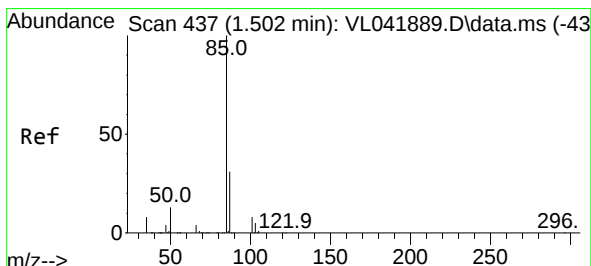
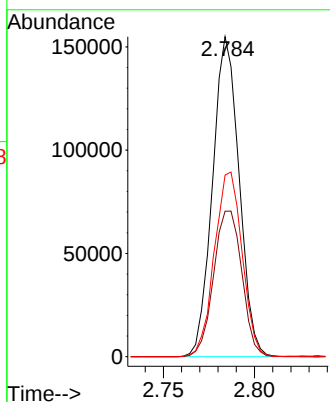
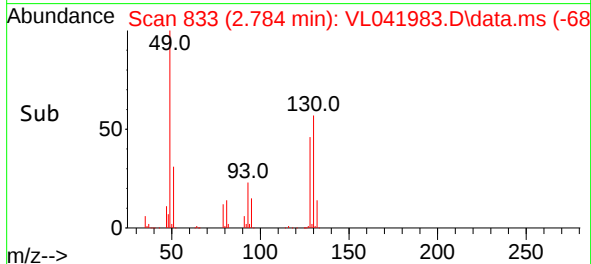
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 49 Resp: 15724
Ion Ratio Lower Upper
49 100
128 48.4 24.3 73.0
130 60.2 31.1 93.2

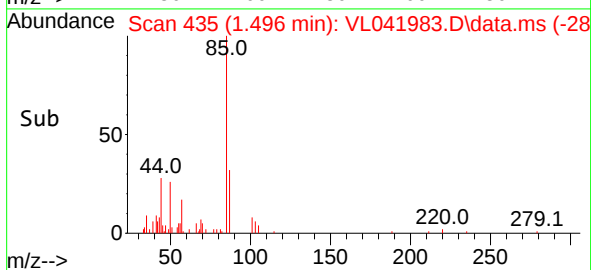
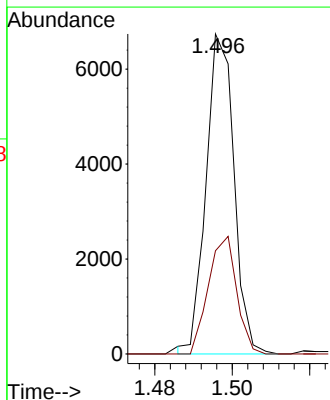
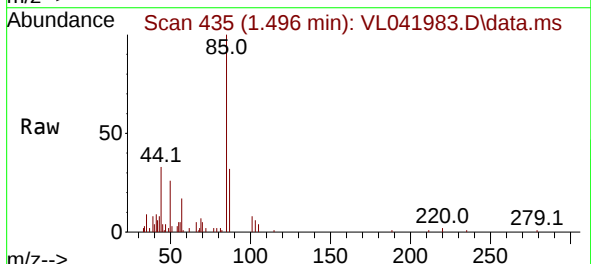
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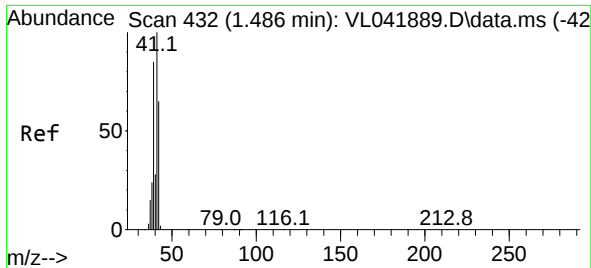
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#2
Dichlorodifluoromethane
Concen: 0.157 ppbv
RT: 1.496 min Scan# 435
Delta R.T. -0.006 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion: 85 Resp: 3365
Ion Ratio Lower Upper
85 100
87 32.3 24.9 37.3





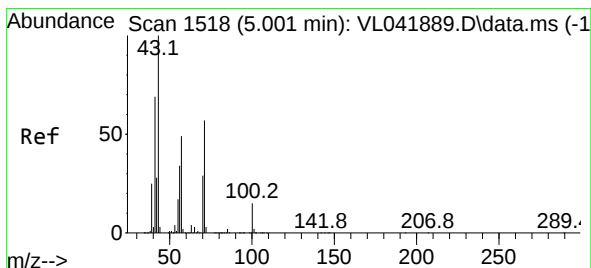
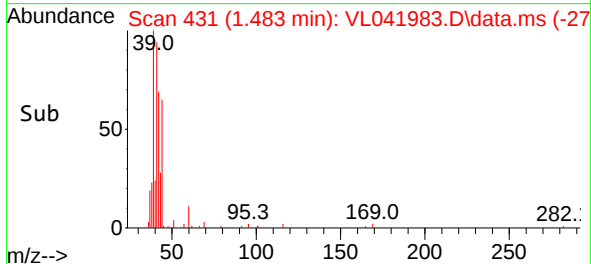
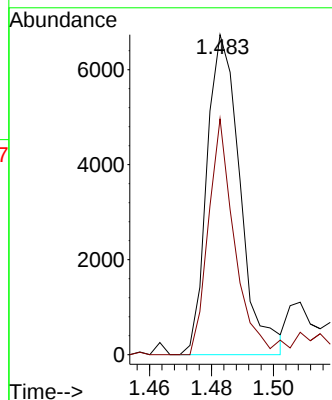
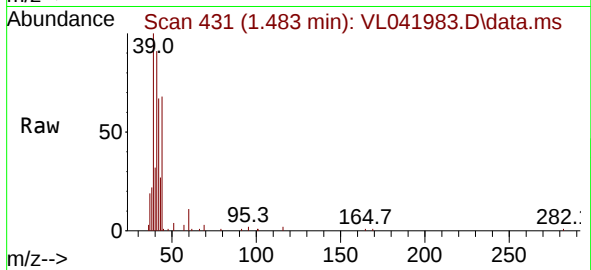
#9
 Propene
 Concen: 0.542 ppbv
 RT: 1.483 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL041983.D
 Acq: 10 Feb 2025 12:35

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion: 41 Resp: 501
 Ion Ratio Lower Upper
 41 100
 42 0.0 52.0 78.0

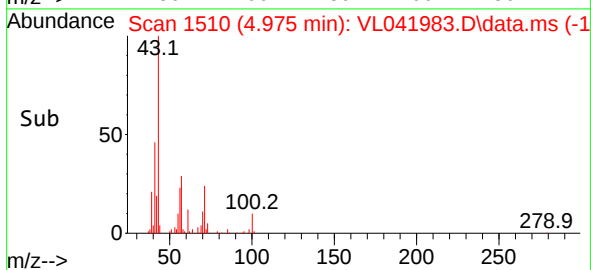
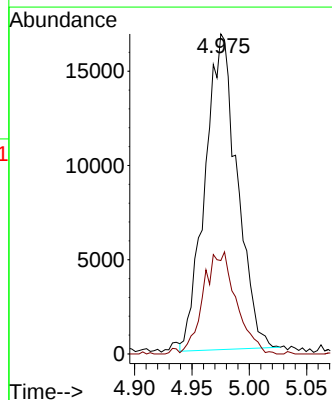
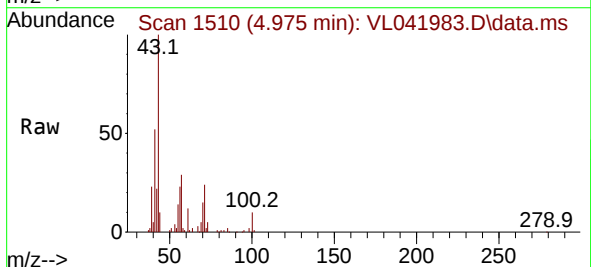
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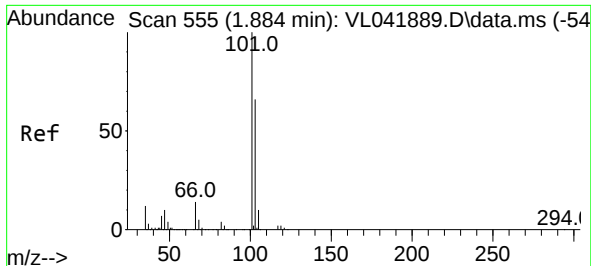
Reviewed By :Semsettin Yesilyurt 02/11/2025
 Supervised By :Mahesh Dadoda 02/11/2025



#10
 Heptane
 Concen: 1.326 ppbv
 RT: 4.975 min Scan# 1510
 Delta R.T. -0.026 min
 Lab File: VL041983.D
 Acq: 10 Feb 2025 12:35

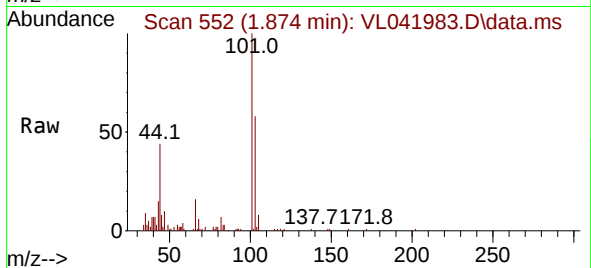
Tgt Ion: 43 Resp: 32752
 Ion Ratio Lower Upper
 43 100
 57 33.5 41.0 61.4





#11
Trichlorofluoromethane
Concen: 0.313 ppbv
RT: 1.874 min Scan# 504
Delta R.T. -0.010 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

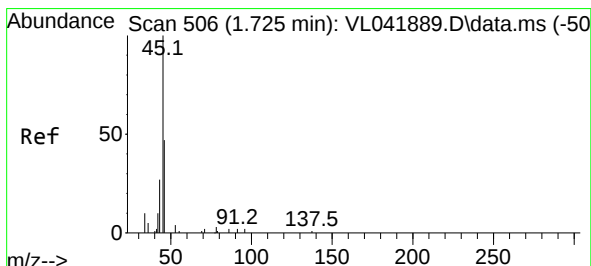
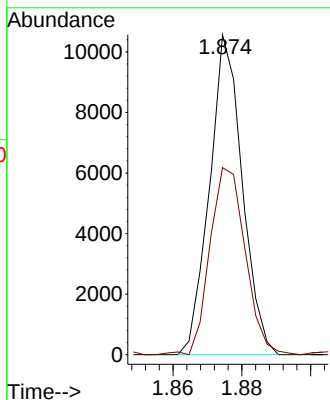
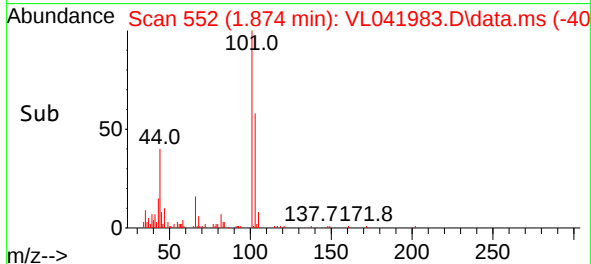
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:101 Resp: 6980
Ion Ratio Lower Upper
101 100
103 57.6 53.1 79.7

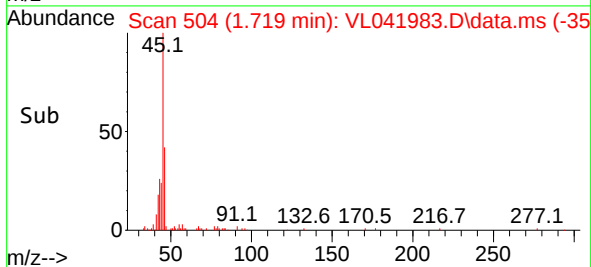
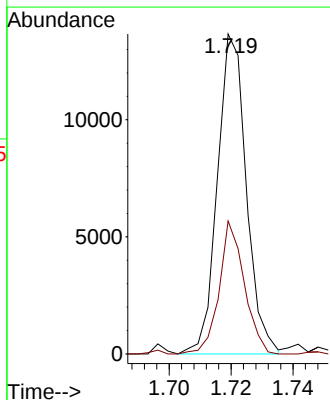
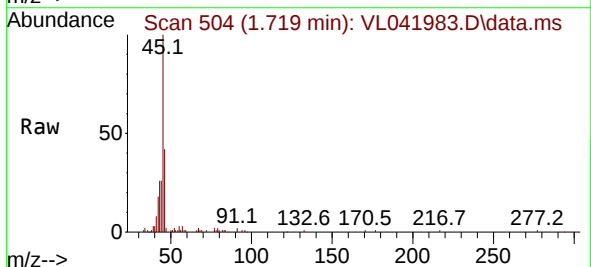
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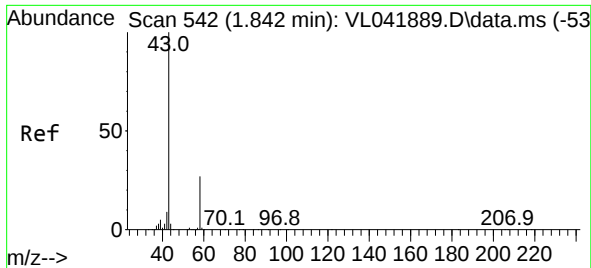
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#13
Ethanol
Concen: 13.082 ppbv
RT: 1.719 min Scan# 504
Delta R.T. -0.006 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion: 45 Resp: 8857
Ion Ratio Lower Upper
45 100
46 0.0 18.1 72.5#





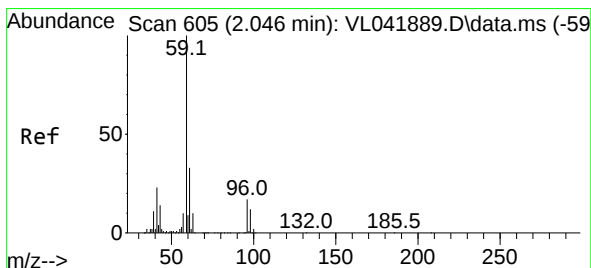
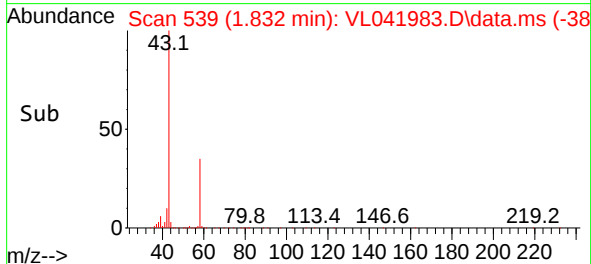
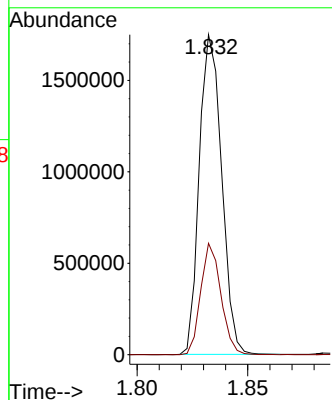
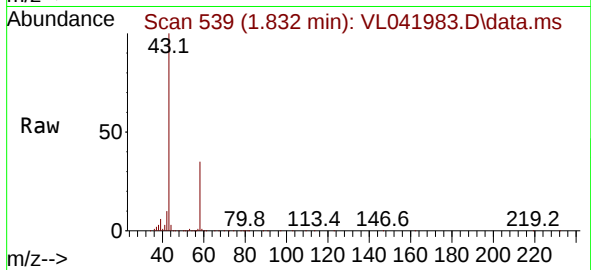
#15
Acetone
Concen: 65.100 ppbv
RT: 1.832 min Scan# 51
Delta R.T. -0.010 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 43 Resp: 1229494
Ion Ratio Lower Upper
43 100
58 31.5 21.9 32.9

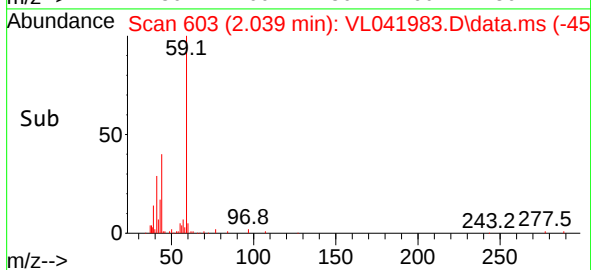
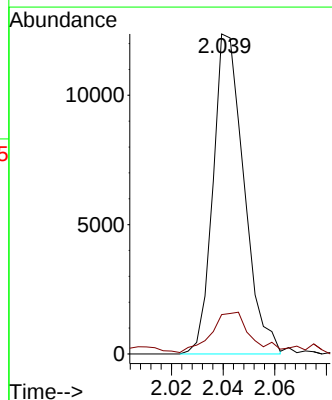
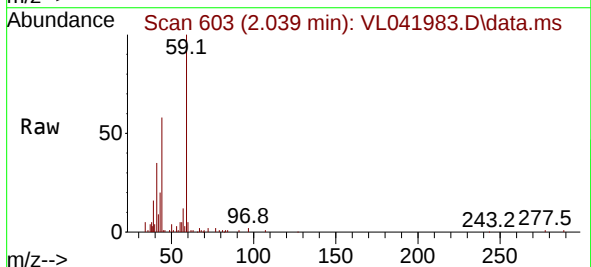
Manual Integrations
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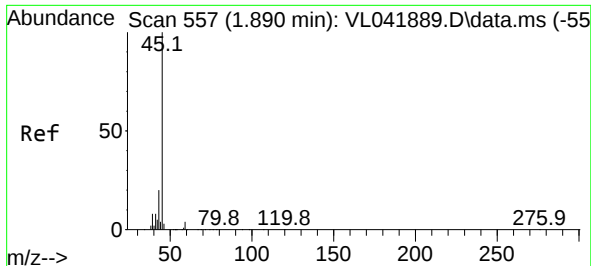
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#17
tert-Butyl alcohol
Concen: 0.442 ppbv
RT: 2.039 min Scan# 603
Delta R.T. -0.006 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion: 59 Resp: 10277
Ion Ratio Lower Upper
59 100
57 23.2 7.8 11.8#





#19

Isopropyl Alcohol

Concen: 1.977 ppbv m

RT: 1.887 min Scan# 5

Delta R.T. -0.003 min

Lab File: VL041983.D

Acq: 10 Feb 2025 12:35

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 45 Resp: 22138

Ion Ratio Lower Upper

45 100

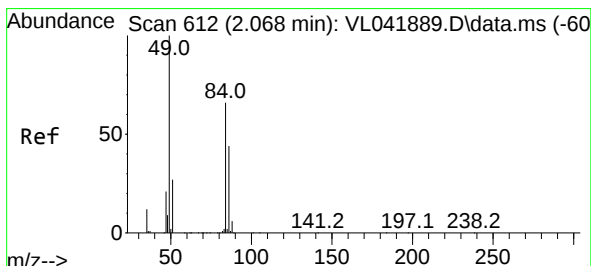
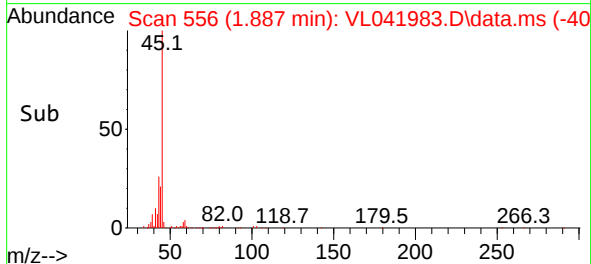
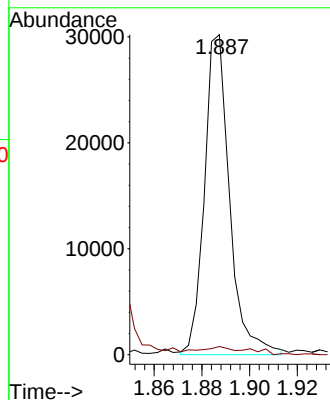
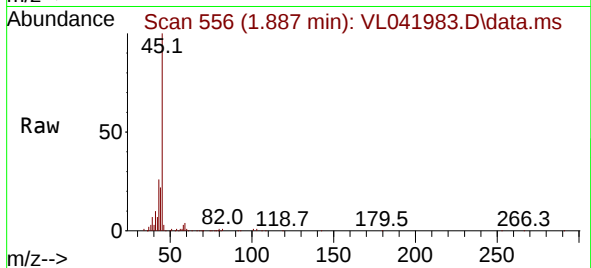
58 0.0 35.0 52.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#20

Methylene Chloride

Concen: 0.233 ppbv

RT: 2.062 min Scan# 610

Delta R.T. -0.006 min

Lab File: VL041983.D

Acq: 10 Feb 2025 12:35

Tgt Ion: 84 Resp: 1738

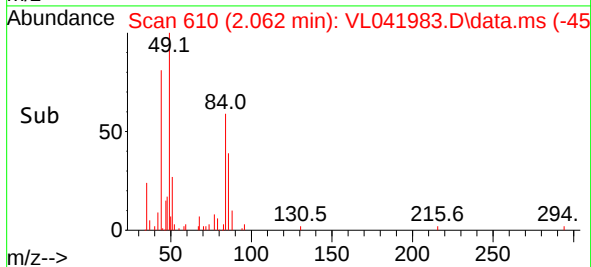
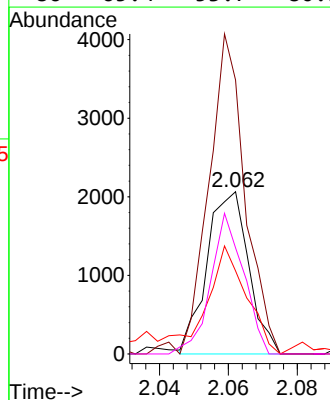
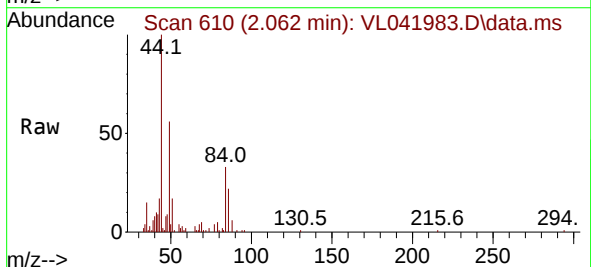
Ion Ratio Lower Upper

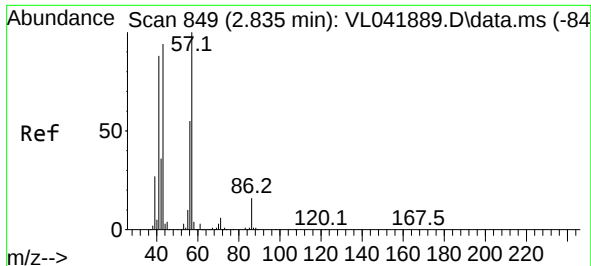
84 100

49 162.4 123.1 184.7

51 51.2 35.8 53.8

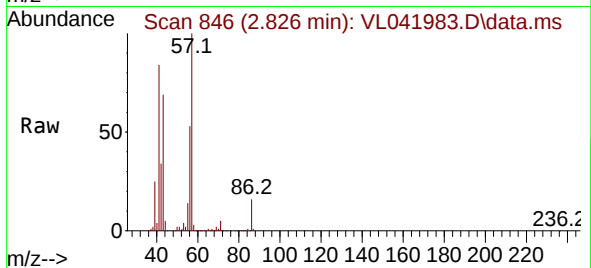
86 65.4 53.7 80.5





#26
Hexane
Concen: 4.783 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

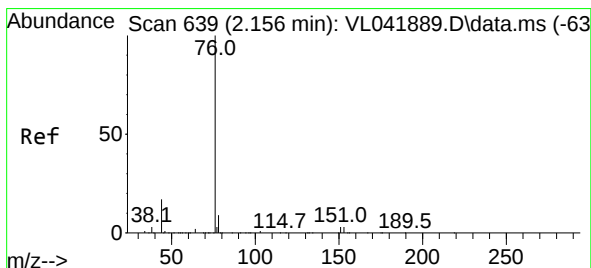
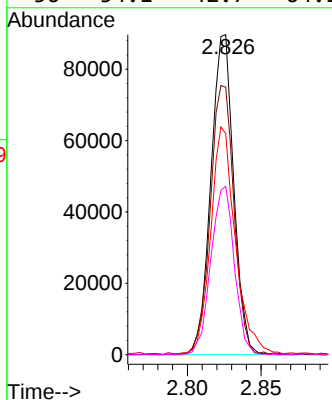
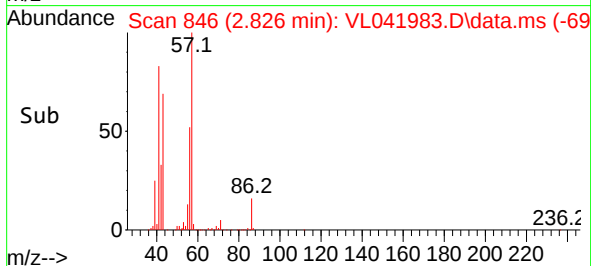
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 57 Resp: 96344
Ion Ratio Lower Upper
57 100
41 89.1 73.8 110.8
43 79.0 197.3 295.9
56 54.1 42.7 64.1

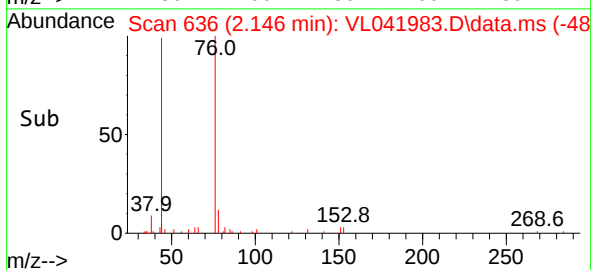
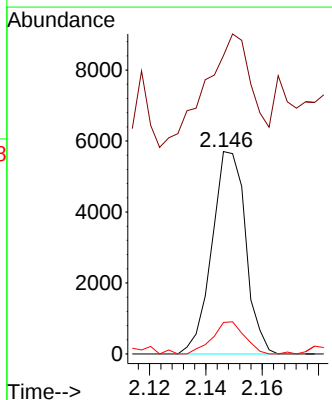
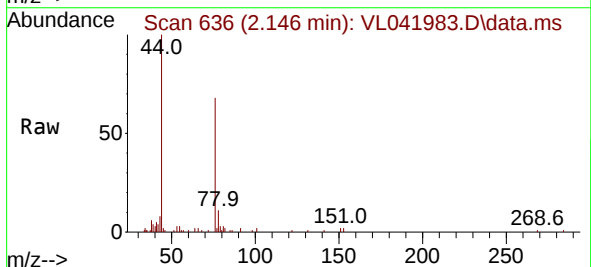
Manual Integrations
APPROVED

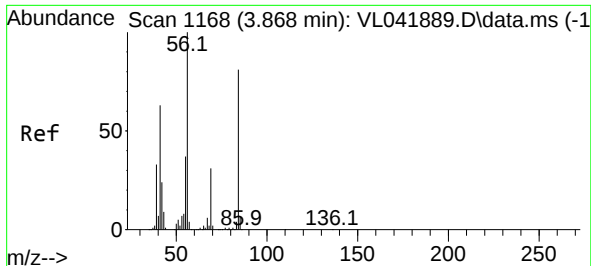
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#27
Carbon Disulfide
Concen: 0.238 ppbv
RT: 2.146 min Scan# 636
Delta R.T. -0.010 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

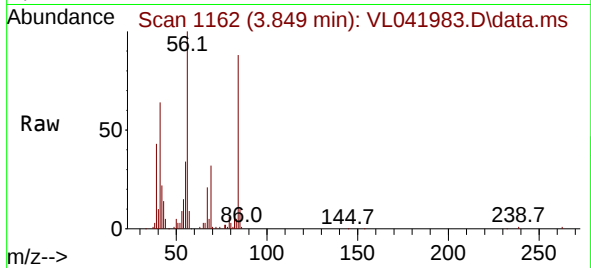
Tgt Ion: 76 Resp: 4735
Ion Ratio Lower Upper
76 100
44 321.5 15.4 23.0#
78 18.8 9.3 13.9#





#30
Cyclohexane
Concen: 1.152 ppbv
RT: 3.849 min Scan# 1162
Delta R.T. -0.019 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

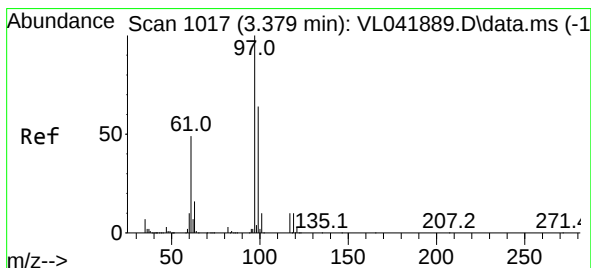
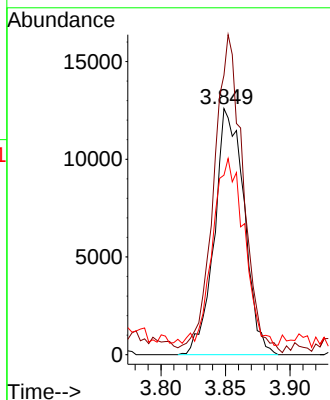
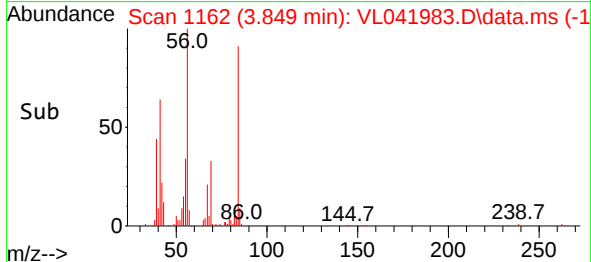
Instrument :
MSVOA_L
ClientSampleId :
SV2



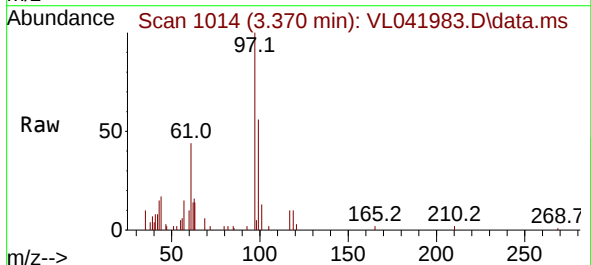
Tgt Ion: 84 Resp: 20134
Ion Ratio Lower Upper
84 100
56 130.7 99.3 148.9
41 82.1 64.3 96.5

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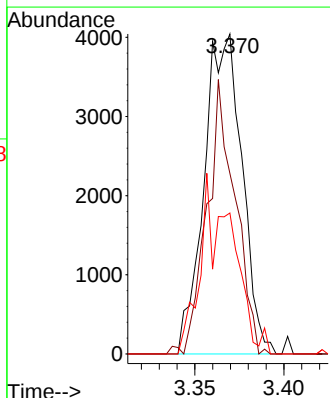
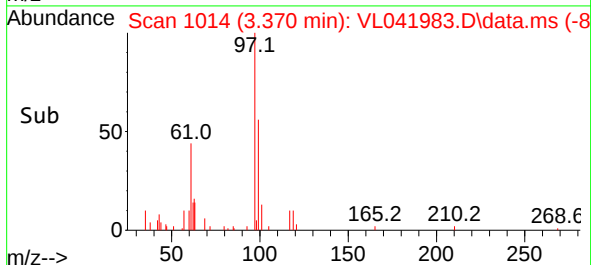
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

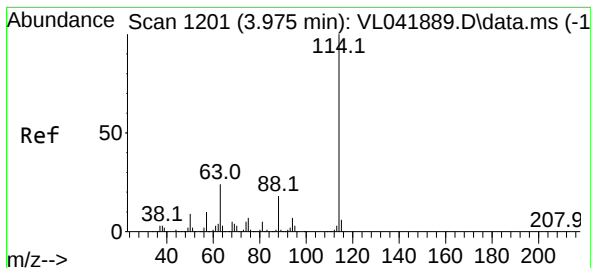


#32
1,1,1-Trichloroethane
Concen: 0.196 ppbv m
RT: 3.370 min Scan# 1014
Delta R.T. -0.010 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35



Tgt Ion: 97 Resp: 5971
Ion Ratio Lower Upper
97 100
99 64.1 51.1 76.7
61 47.9 39.0 58.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.956 min Scan# 1195

Delta R.T. -0.019 min

Lab File: VL041983.D

Acq: 10 Feb 2025 12:35

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion:114 Resp: 437860

Ion Ratio Lower Upper

114 100

63 24.3 19.8 29.6

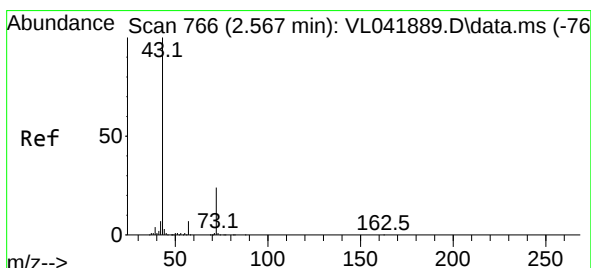
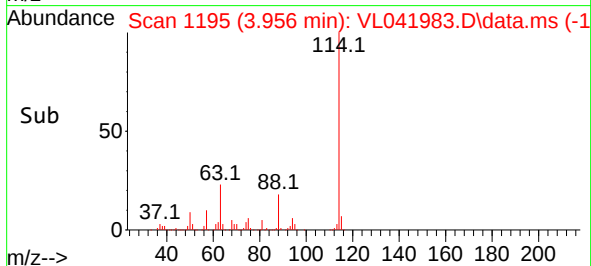
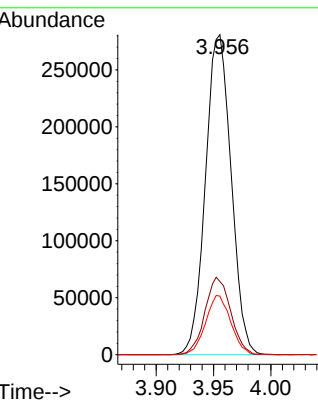
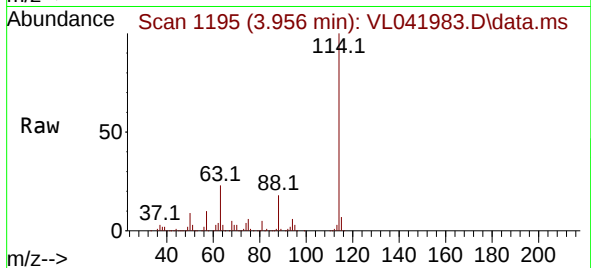
88 18.1 14.4 21.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 02/11/2025

Supervised By :Mahesh Dadoda 02/11/2025



#34

2-Butanone

Concen: 3.632 ppbv

RT: 2.557 min Scan# 763

Delta R.T. -0.010 min

Lab File: VL041983.D

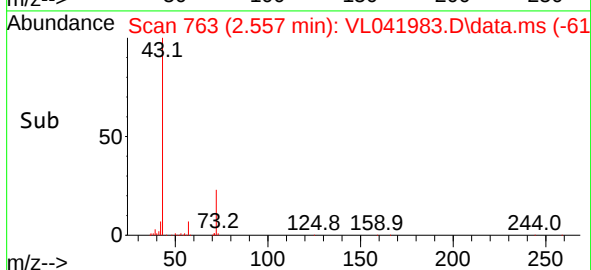
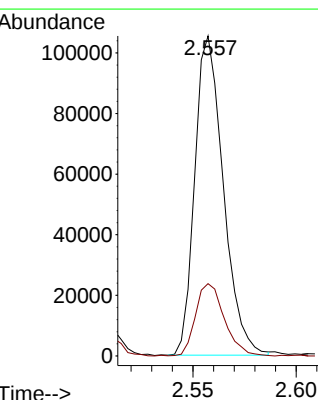
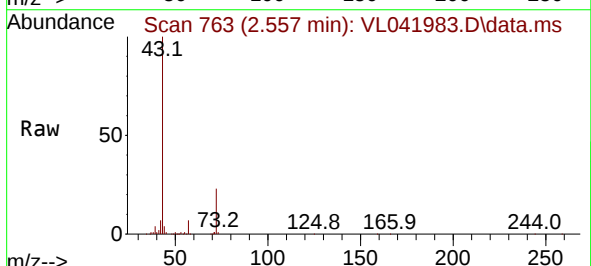
Acq: 10 Feb 2025 12:35

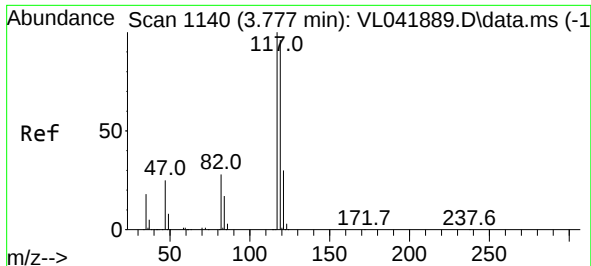
Tgt Ion: 43 Resp: 101126

Ion Ratio Lower Upper

43 100

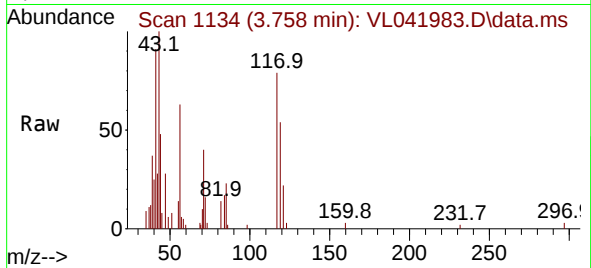
72 23.1 18.6 28.0





#35
Carbon Tetrachloride
Concen: 0.098 ppbv m
RT: 3.758 min Scan# 1134
Delta R.T. -0.019 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

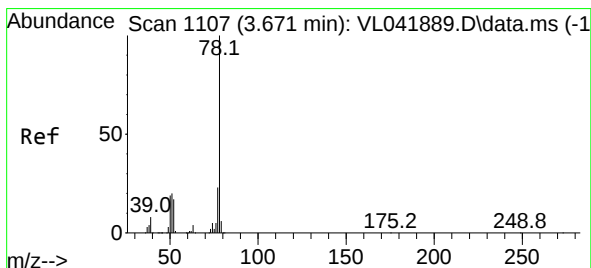
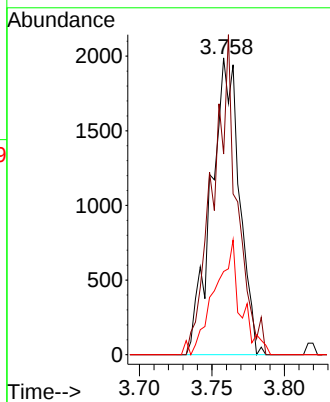
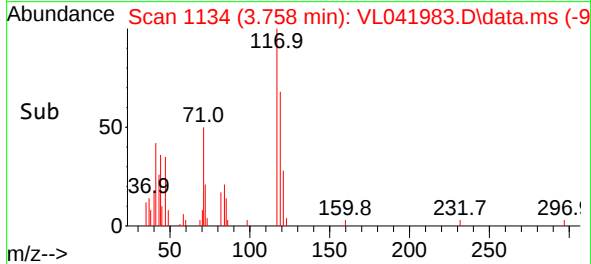
Instrument :
MSVOA_L
ClientSampleId :
SV2



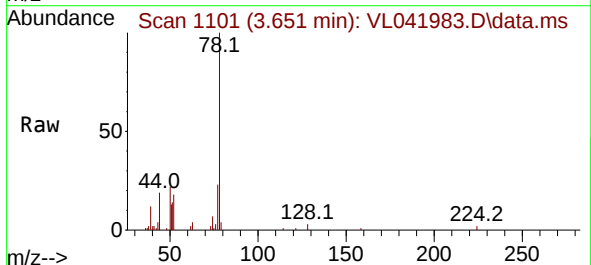
Tgt Ion:117 Resp: 2699
Ion Ratio Lower Upper
117 100
119 67.6 76.9 115.3
121 28.1 23.8 35.6

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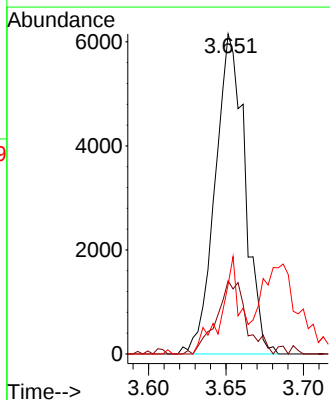
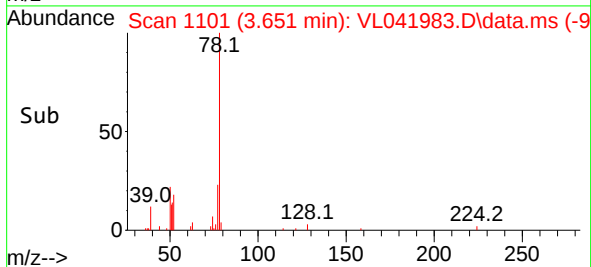
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025

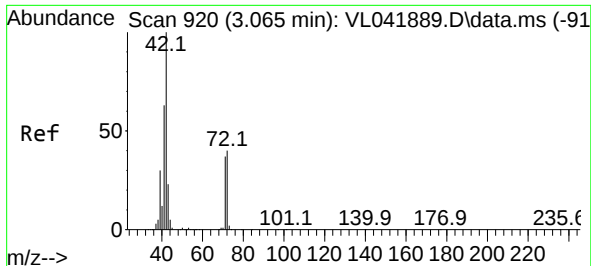


#36
Benzene
Concen: 0.204 ppbv
RT: 3.651 min Scan# 1101
Delta R.T. -0.019 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35



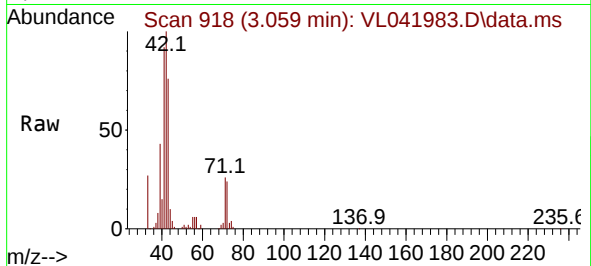
Tgt Ion: 78 Resp: 8195
Ion Ratio Lower Upper
78 100
77 22.9 18.1 27.1
50 21.6 15.2 22.8





#41
Tetrahydrofuran
Concen: 2.138 ppbv
RT: 3.059 min Scan# 918
Delta R.T. -0.006 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

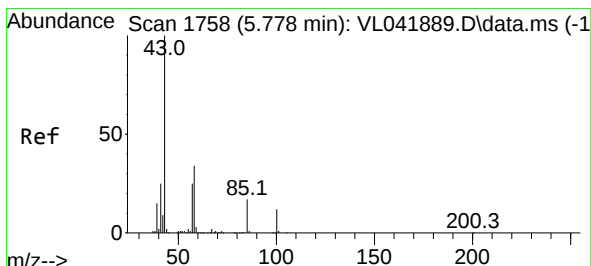
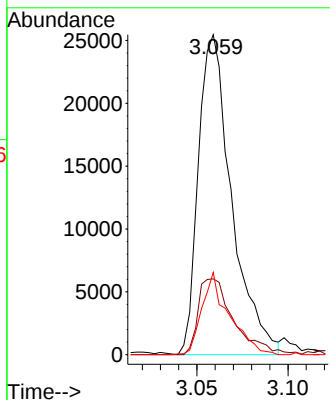
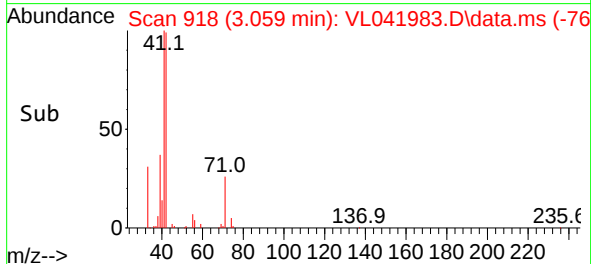
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 42 Resp: 3235
Ion Ratio Lower Upper
42 100
72 25.5 32.3 48.5
71 21.2 29.9 44.9

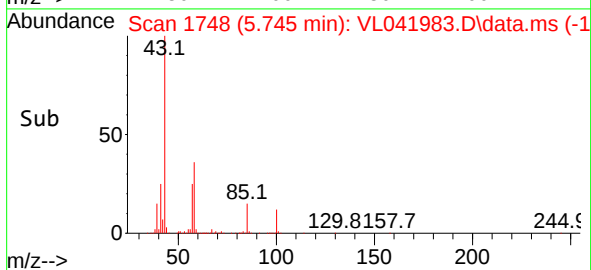
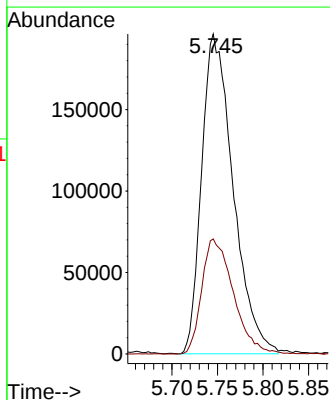
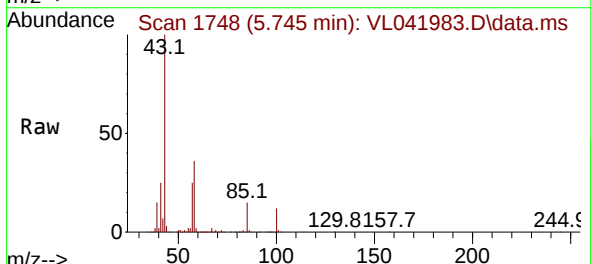
Manual Integrations
APPROVED

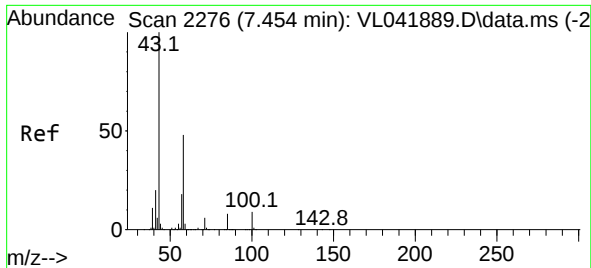
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#50
4-Methyl-2-Pentanone
Concen: 12.403 ppbv
RT: 5.745 min Scan# 1748
Delta R.T. -0.032 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

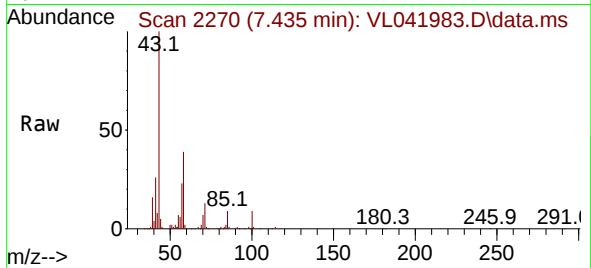
Tgt Ion: 43 Resp: 471471
Ion Ratio Lower Upper
43 100
58 36.1 29.0 43.6





#51
2-Hexanone
Concen: 3.488 ppbv
RT: 7.435 min Scan# 2111
Delta R.T. -0.019 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

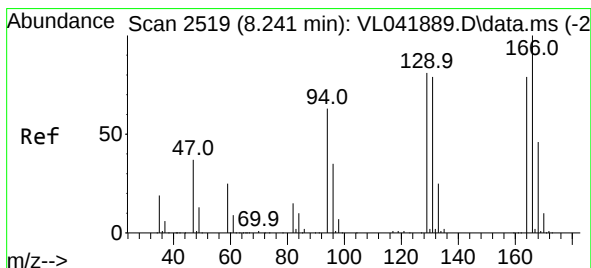
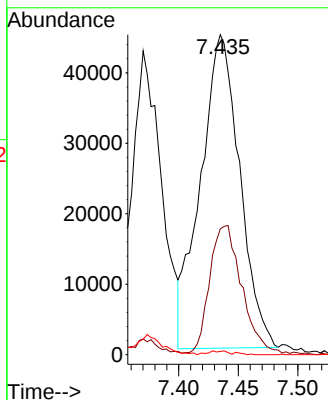
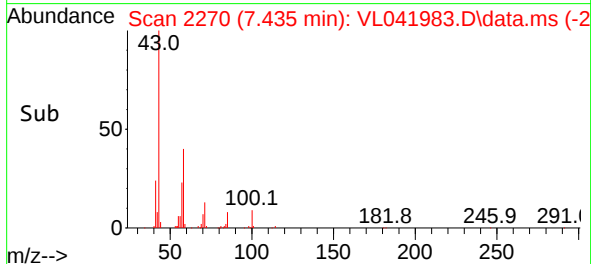
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 43 Resp: 101884
Ion Ratio Lower Upper
43 100
58 34.3 40.4 60.6
98 0.7 0.2 0.2

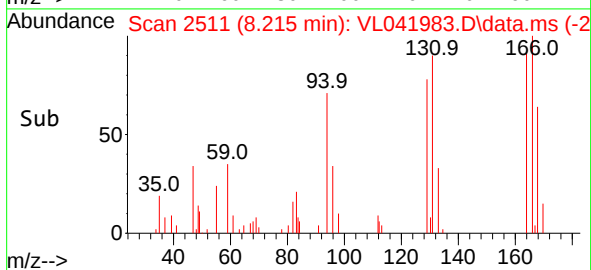
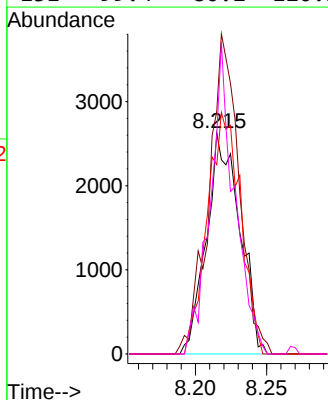
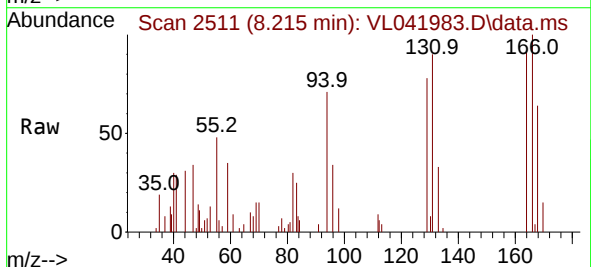
Manual Integrations
APPROVED

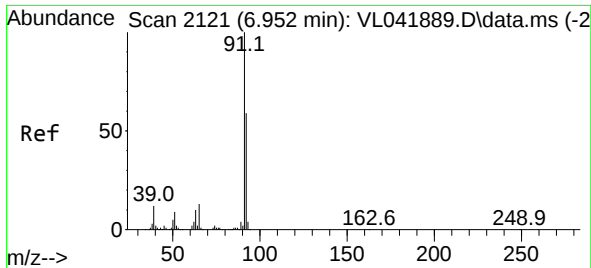
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#52
Tetrachloroethene
Concen: 0.307 ppbv m
RT: 8.215 min Scan# 2511
Delta R.T. -0.026 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion:164 Resp: 4269
Ion Ratio Lower Upper
164 100
166 109.8 100.8 151.2
129 85.8 82.0 123.0
131 99.4 80.2 120.2





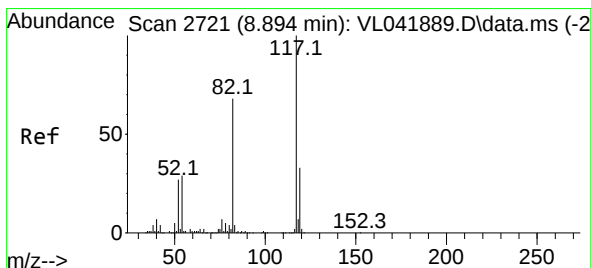
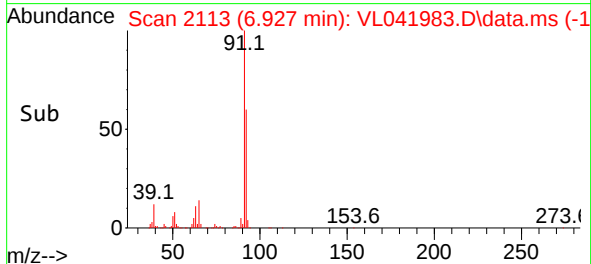
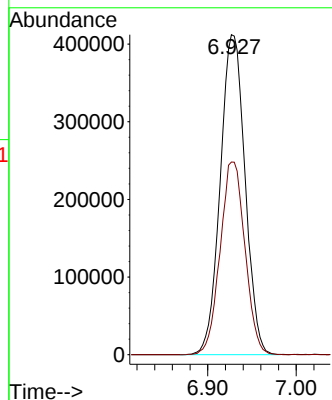
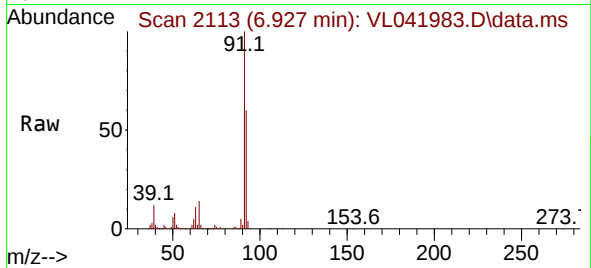
#53
Toluene
Concen: 18.338 ppbv
RT: 6.927 min Scan# 2113
Delta R.T. -0.026 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 802208
Ion Ratio Lower Upper
91 100
92 60.3 47.4 71.0

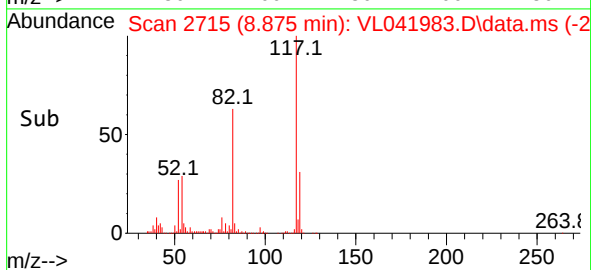
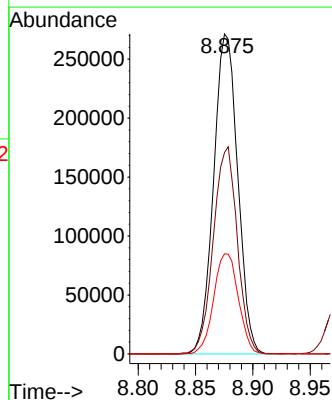
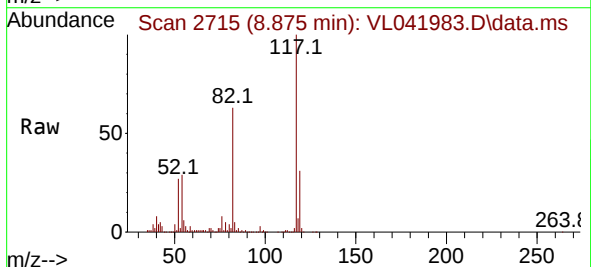
Manual Integrations
APPROVED

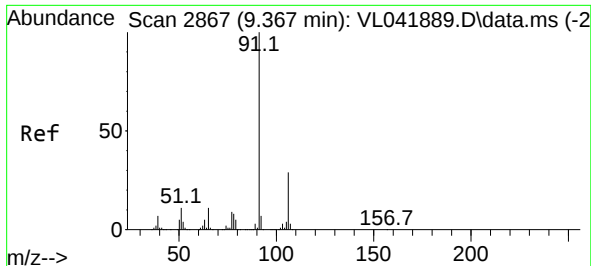
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 2715
Delta R.T. -0.019 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion:117 Resp: 397046
Ion Ratio Lower Upper
117 100
82 64.6 54.2 81.4
119 32.1 25.0 37.6





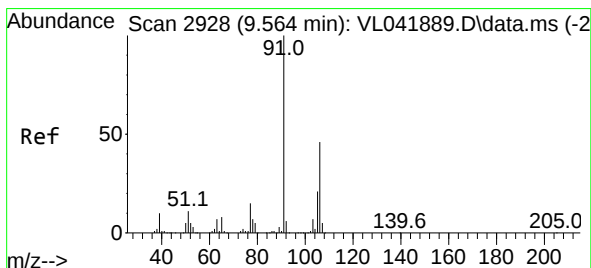
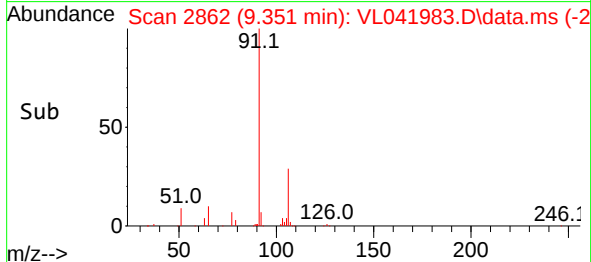
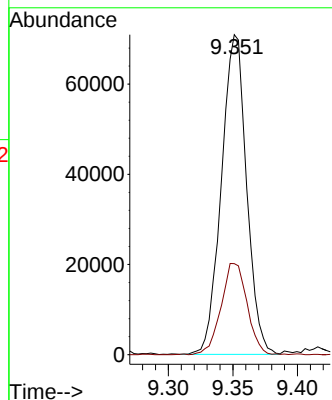
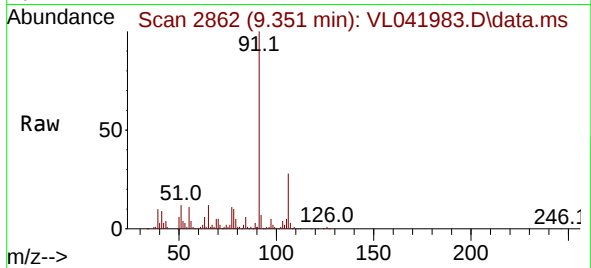
#58
Ethyl Benzene
Concen: 1.550 ppbv
RT: 9.351 min Scan# 2916
Delta R.T. -0.016 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 91 Resp: 9616
Ion Ratio Lower Upper
91 100
106 28.4 23.1 34.7

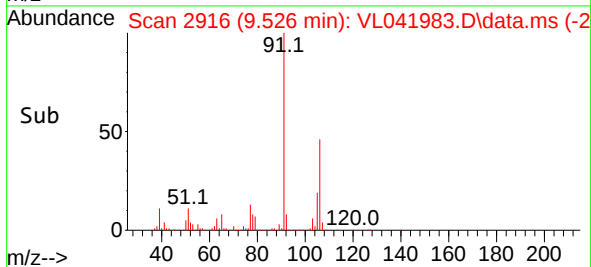
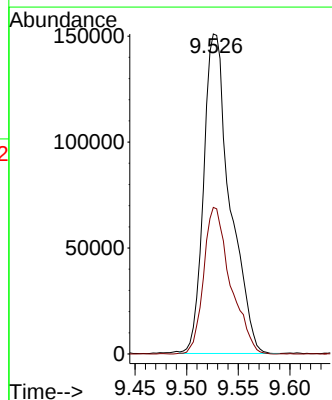
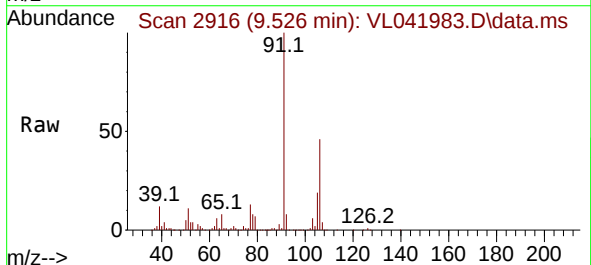
Manual Integrations
APPROVED

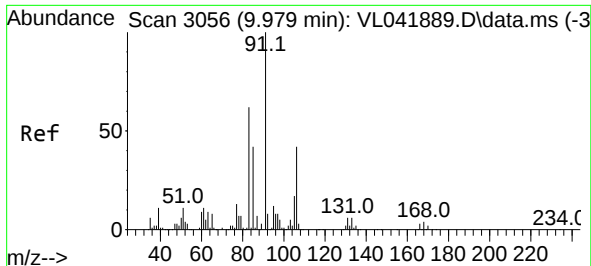
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#59
m/p-Xylene
Concen: 5.389 ppbv
RT: 9.526 min Scan# 2916
Delta R.T. -0.039 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion: 91 Resp: 268033
Ion Ratio Lower Upper
91 100
106 46.6 36.0 54.0





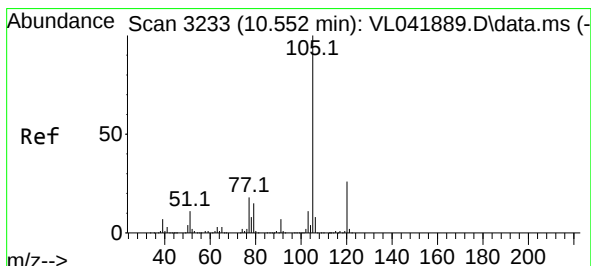
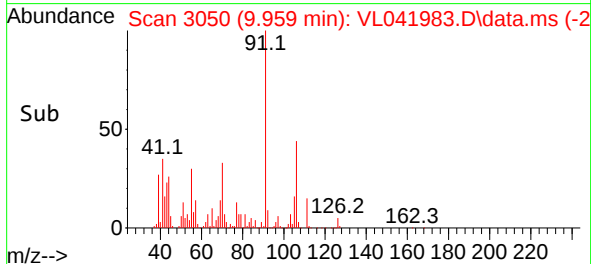
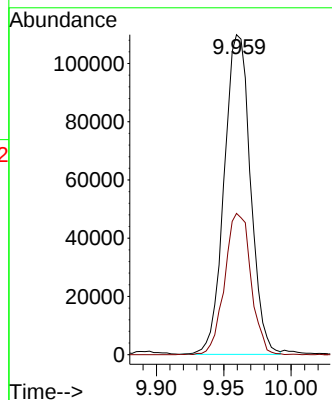
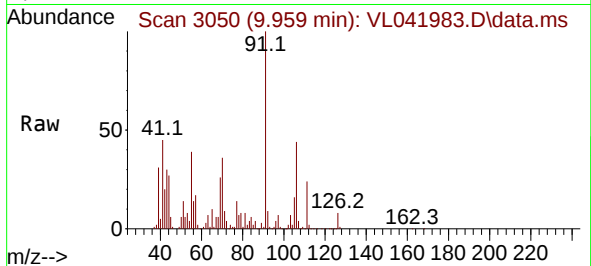
#60
o-Xylene
Concen: 3.018 ppbv
RT: 9.959 min Scan# 3056
Delta R.T. -0.019 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Instrument : MSVOA_L
ClientSampleId : SV2

Tgt Ion: 91 Resp: 14900
Ion Ratio Lower Upper
91 100
106 44.2 21.3 63.9

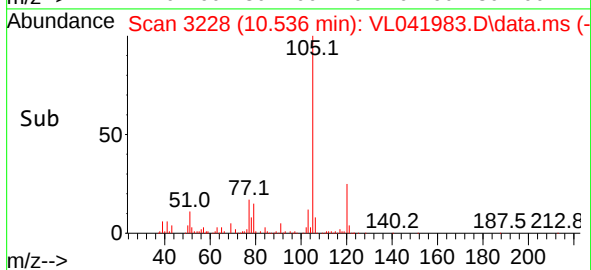
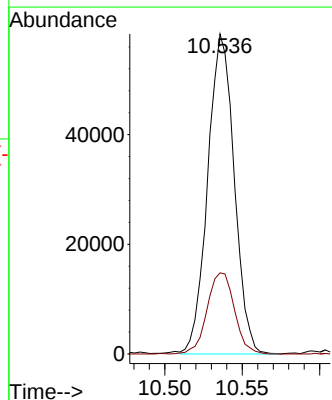
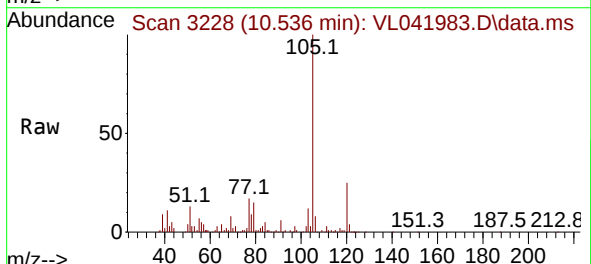
Manual Integrations
APPROVED

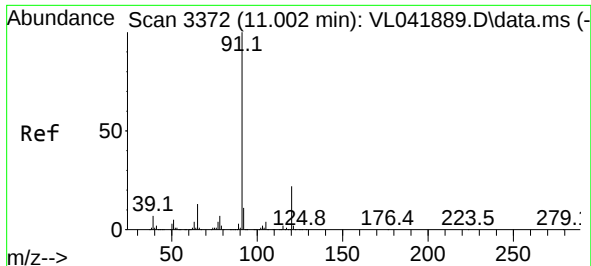
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#62
Isopropylbenzene
Concen: 0.909 ppbv
RT: 10.536 min Scan# 3228
Delta R.T. -0.016 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

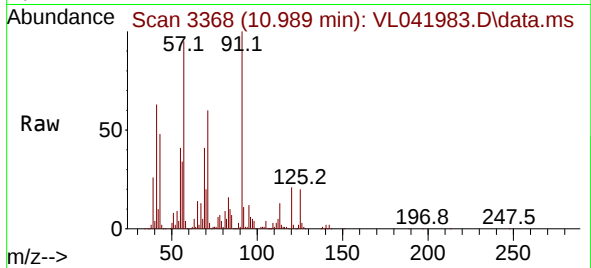
Tgt Ion:105 Resp: 69424
Ion Ratio Lower Upper
105 100
120 26.1 20.3 30.5





#64
n-propylbenzene
Concen: 1.688 ppbv
RT: 10.989 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

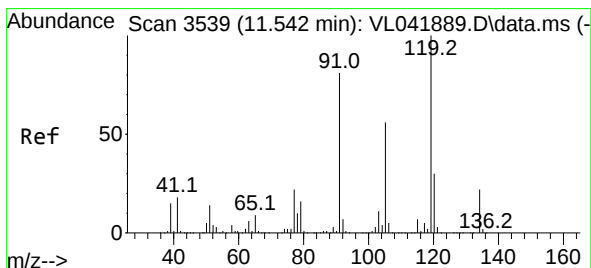
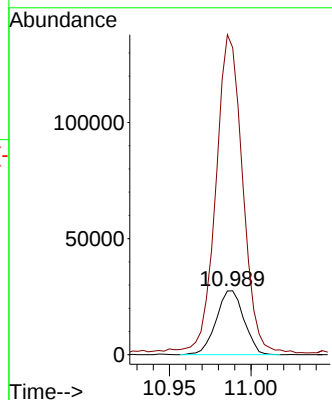
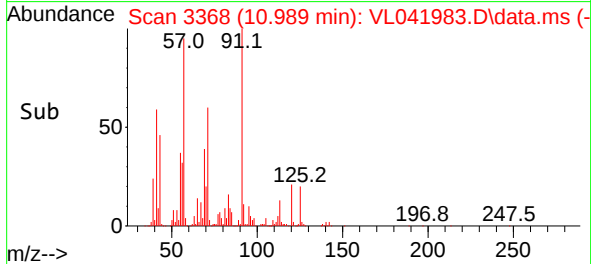
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion:120 Resp: 32570
Ion Ratio Lower Upper
120 100
91 488.8 374.1 561.1

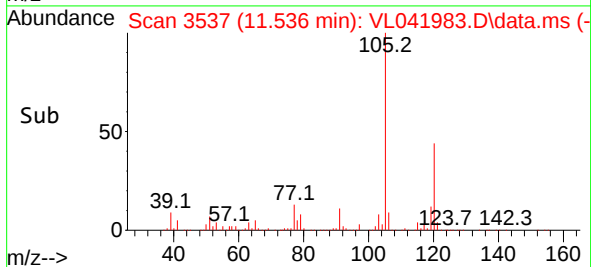
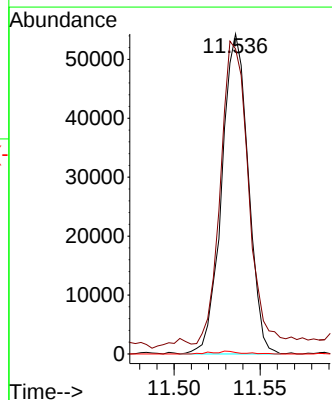
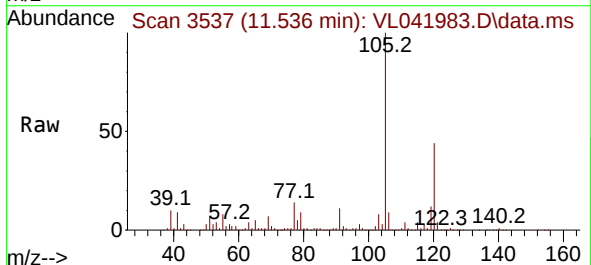
Manual Integrations
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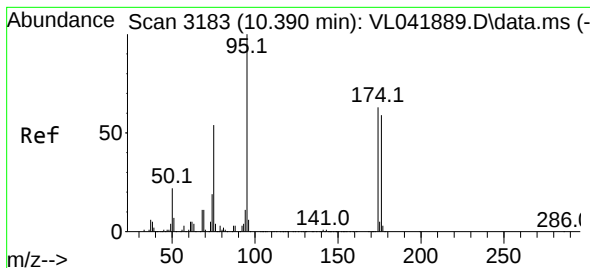
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#65
tert-Butylbenzene
Concen: 0.836 ppbv
RT: 11.536 min Scan# 3537
Delta R.T. -0.006 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

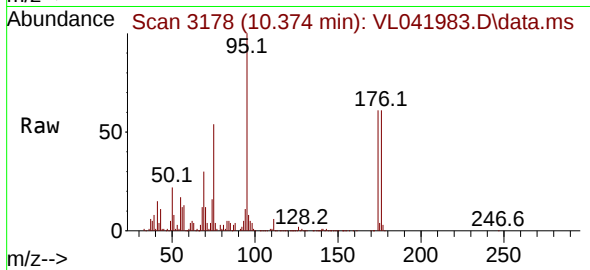
Tgt Ion:119 Resp: 58195
Ion Ratio Lower Upper
119 100
91 102.6 64.6 97.0#
134 0.0 16.8 25.2#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.428 ppbv
RT: 10.374 min Scan# 3183
Delta R.T. -0.016 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

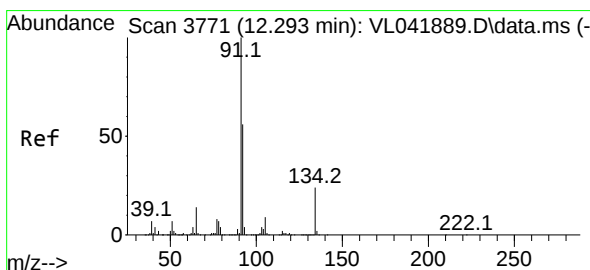
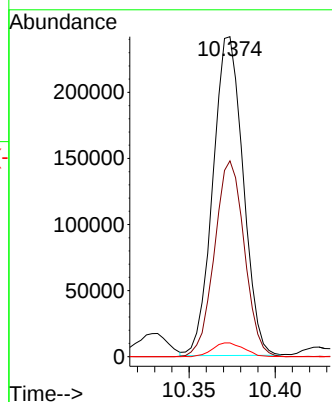
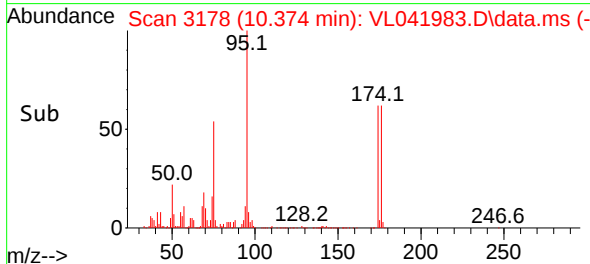
Instrument :
MSVOA_L
ClientSampleId :
SV2



Tgt Ion: 95 Resp: 294844
Ion Ratio Lower Upper
95 100
174 60.6 49.0 73.4
175 4.5 3.8 5.8

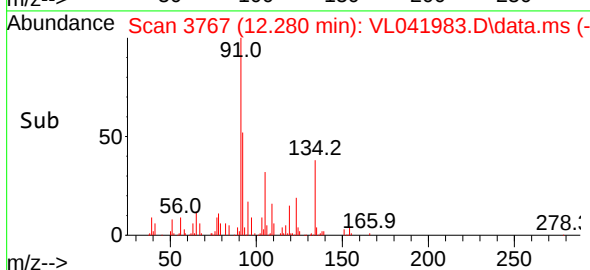
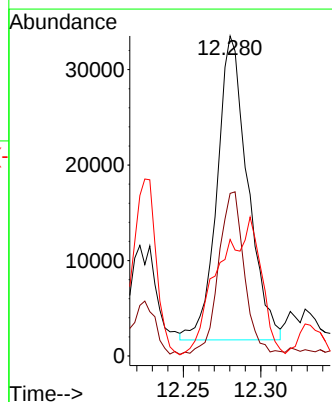
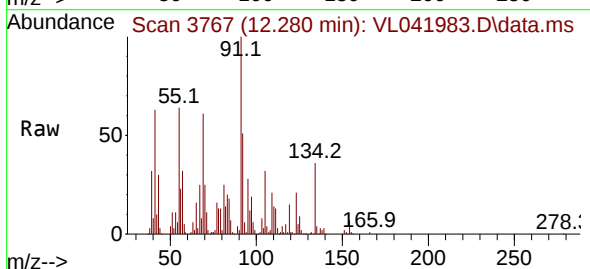
Manual Integrations
APPROVED

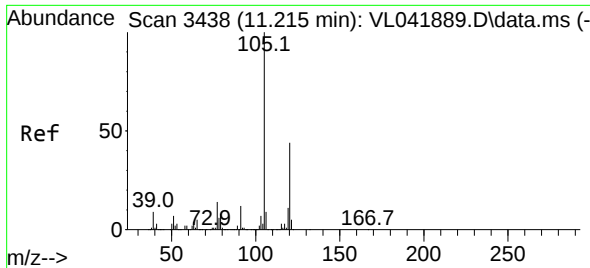
Reviewed By :Semsettin Yesilyurt 02/11/2025
Supervised By :Mahesh Dadoda 02/11/2025



#70
n-Butylbenzene
Concen: 0.560 ppbv
RT: 12.280 min Scan# 3767
Delta R.T. -0.013 min
Lab File: VL041983.D
Acq: 10 Feb 2025 12:35

Tgt Ion: 91 Resp: 43820
Ion Ratio Lower Upper
91 100
92 46.1 43.8 65.6
134 64.1 19.0 28.6#





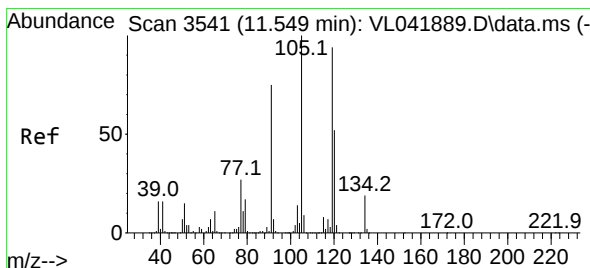
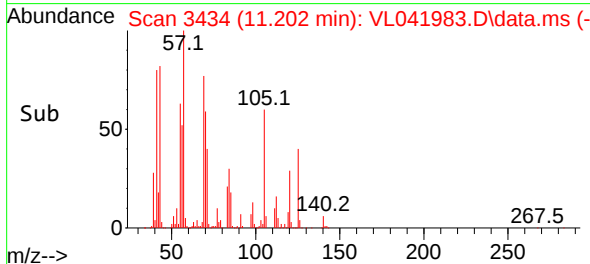
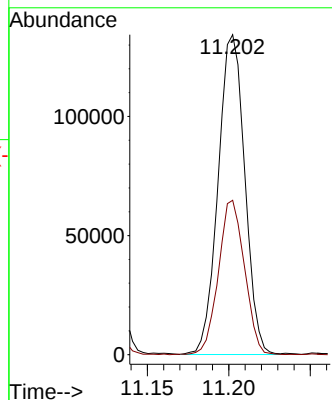
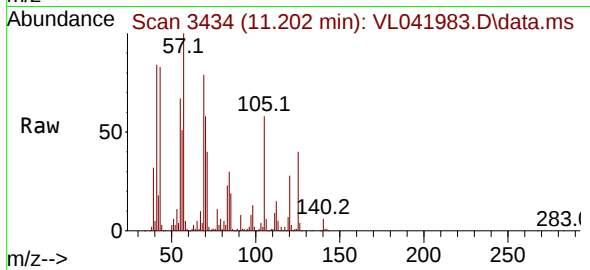
#73
 1,3,5-Trimethylbenzene
 Concen: 2.921 ppbv
 RT: 11.202 min Scan# 3438
 Delta R.T. -0.013 min
 Lab File: VL041983.D
 Acq: 10 Feb 2025 12:35

Instrument : MSVOA_L
 ClientSampleId : SV2

Tgt Ion:105 Resp: 152349
 Ion Ratio Lower Upper
 105 100
 120 48.2 35.4 53.2

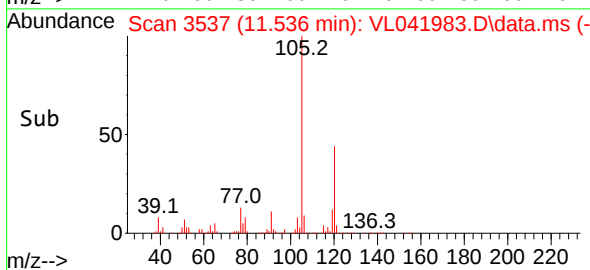
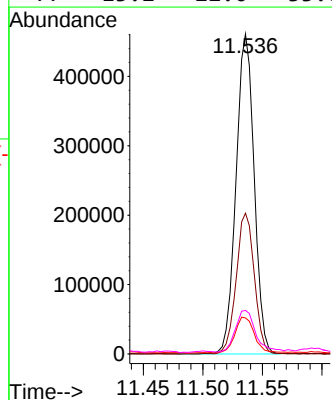
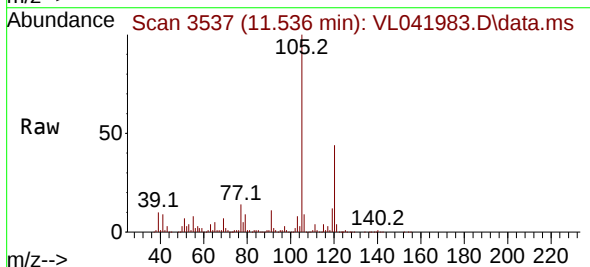
Manual Integrations
 APPROVED

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



#74
 1,2,4-Trimethylbenzene
 Concen: 8.641 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.013 min
 Lab File: VL041983.D
 Acq: 10 Feb 2025 12:35

Tgt Ion:105 Resp: 487991
 Ion Ratio Lower Upper
 105 100
 120 44.0 41.4 62.2
 91 10.8 60.2 90.2#
 77 13.2 22.0 33.0#





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1302 SAS No.: Q1302 SDG No.: Q1302
 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

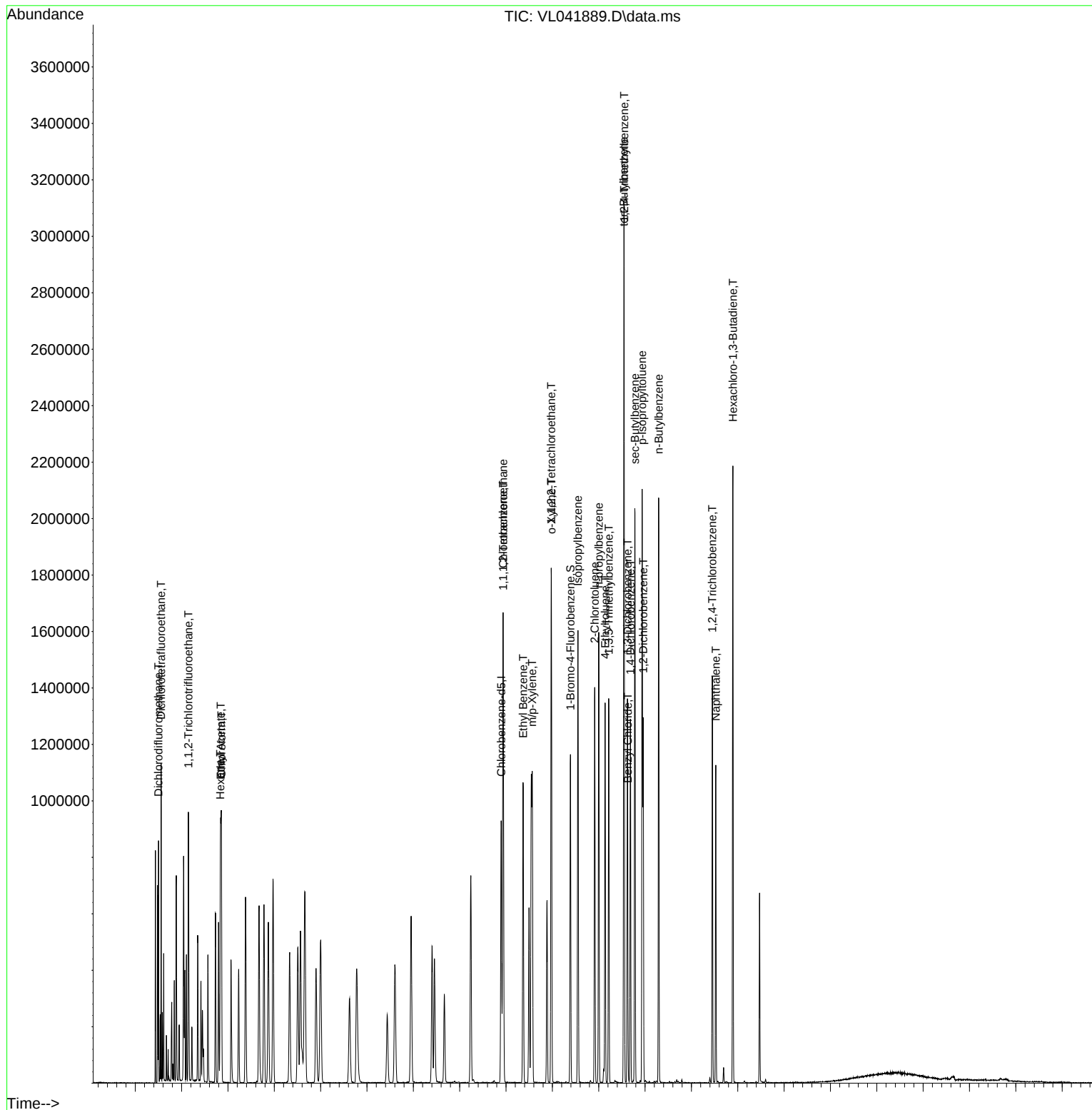
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041889.D
Acq On : 14 Jan 2025 12:55
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

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

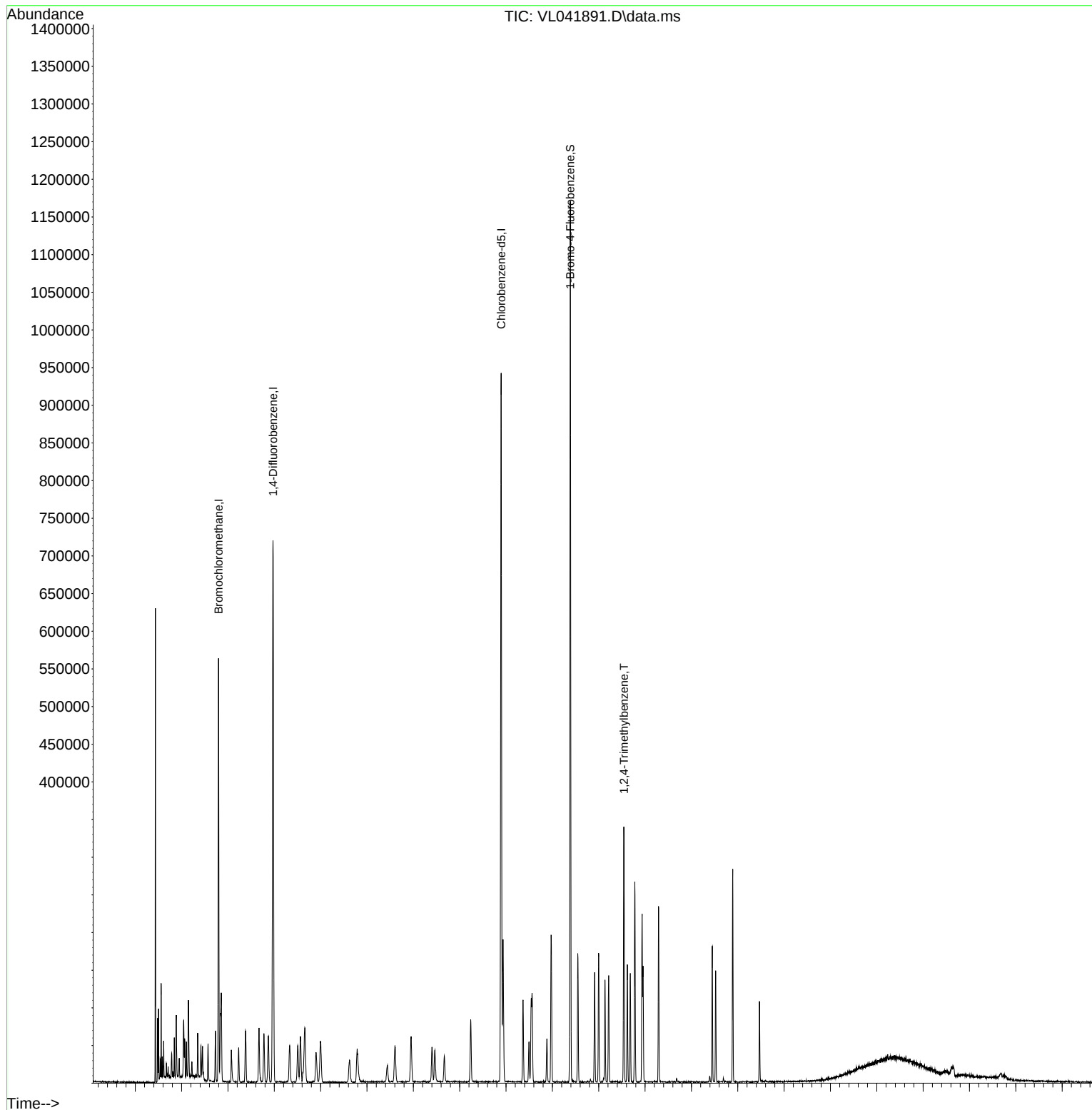
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041891.D
Acq On : 14 Jan 2025 13:59
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:01 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:01 2025

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

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

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

Response via : Initial Calibration

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

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

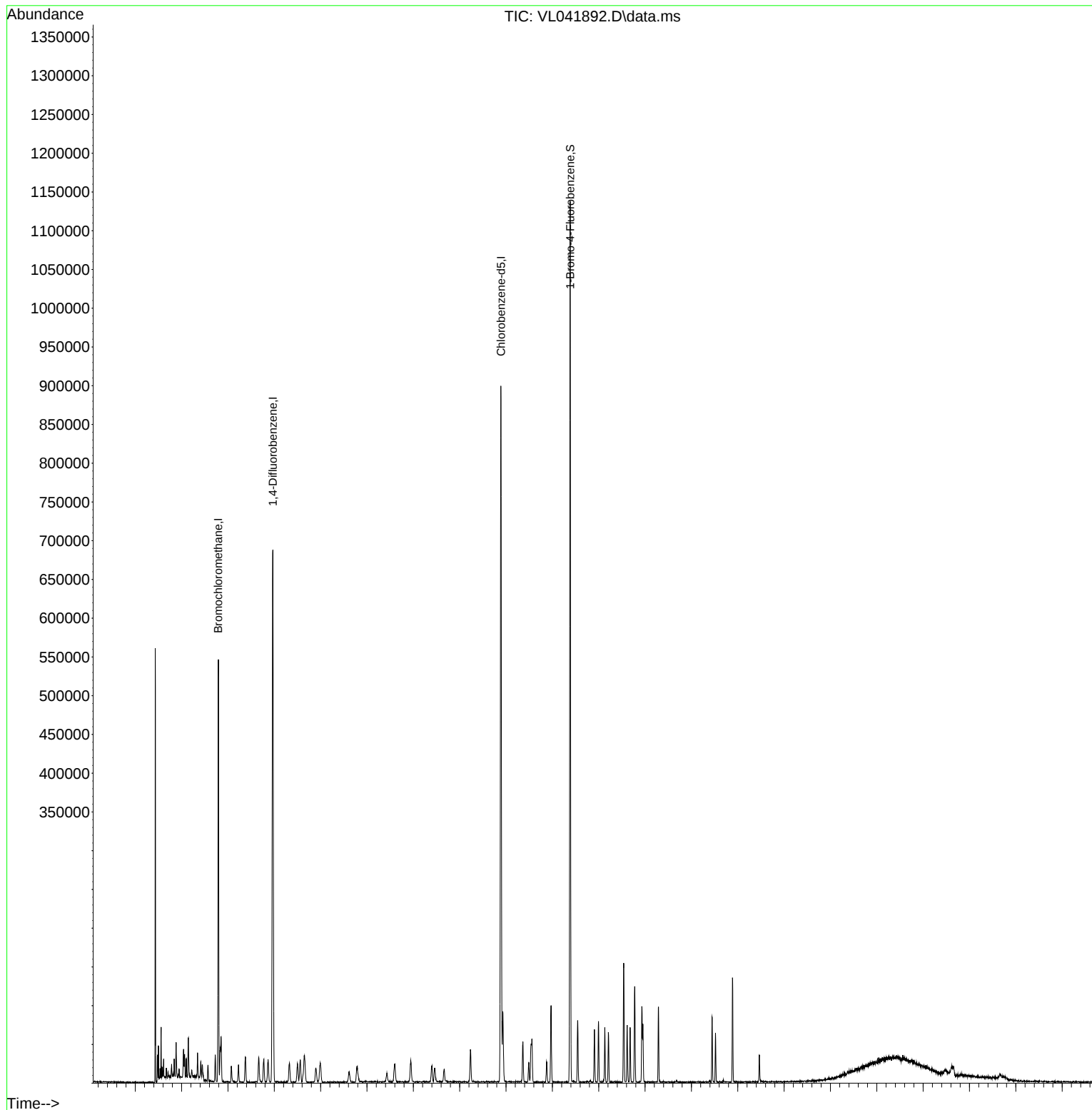
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041892.D
Acq On : 14 Jan 2025 14:30
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations
APPROVED

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

Quant Time: Jan 14 21:21:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_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

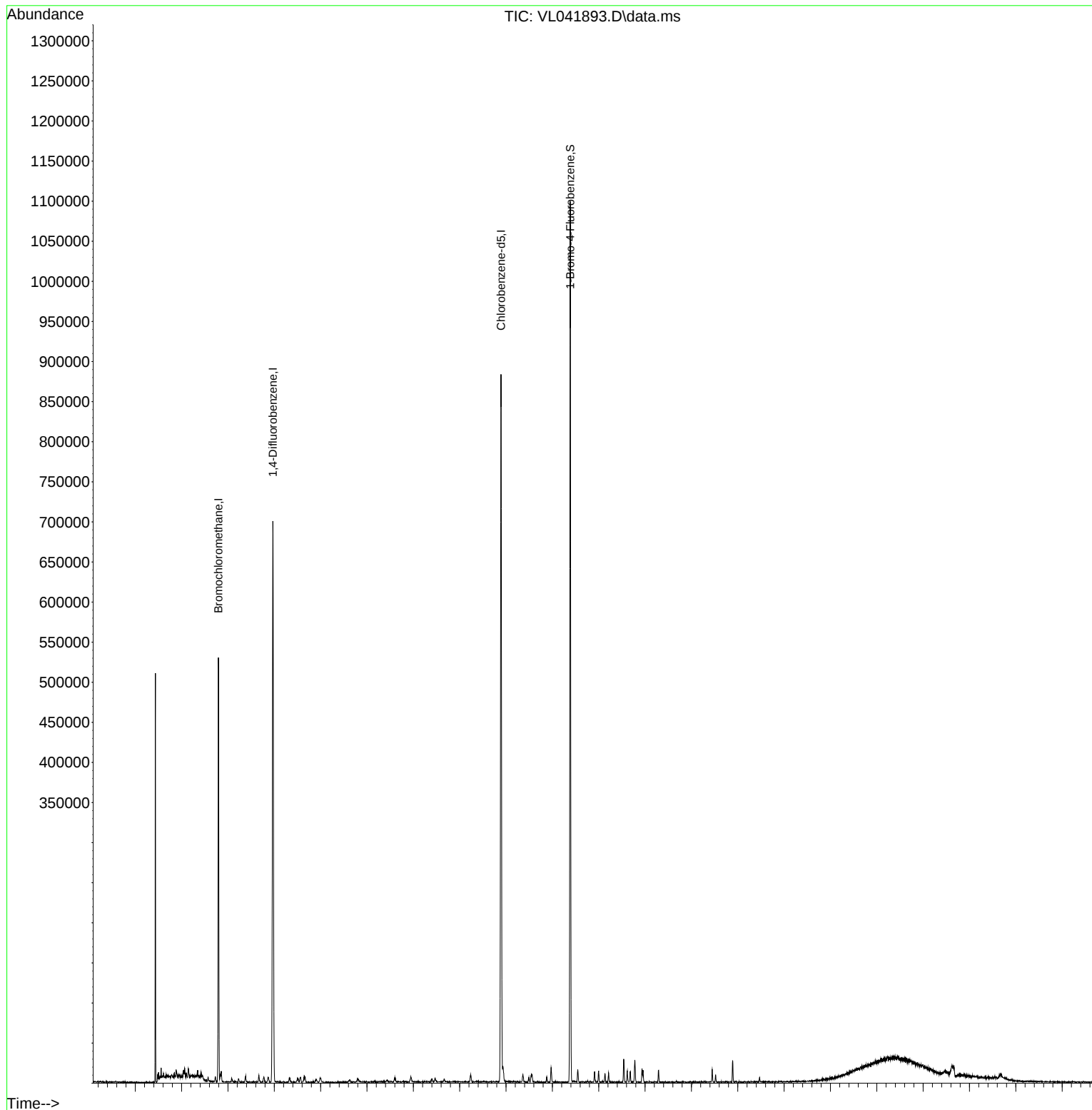
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Data File : VL041893.D
Acq On : 14 Jan 2025 15:01
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

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

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

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

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

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

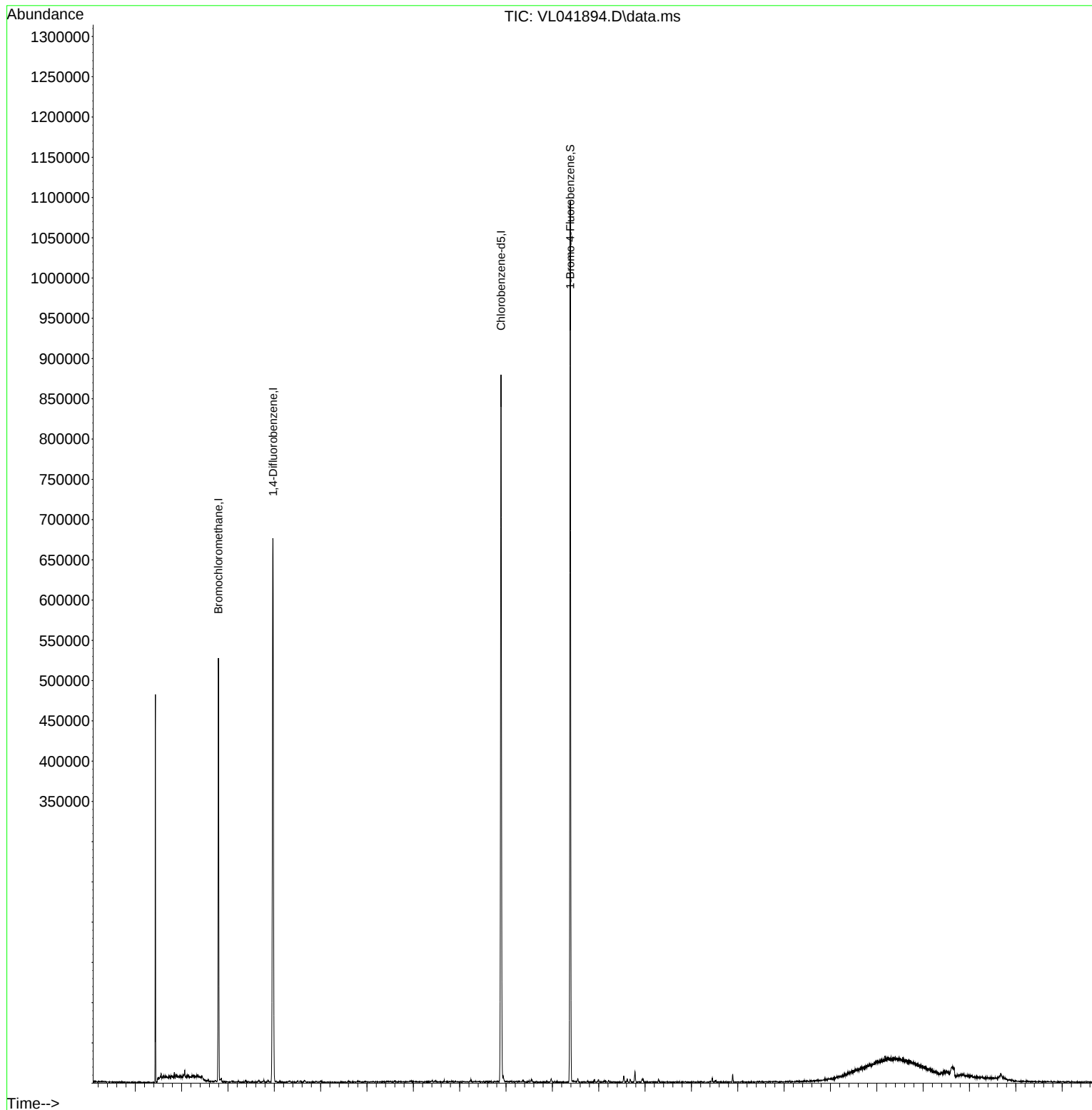
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Data File : VL041894.D
Acq On : 14 Jan 2025 15:32
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

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

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)

Internal Standards						
1) Bromochloromethane	2.793	49	141652	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	419859	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	383799	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 304042 10.058 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

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

Quant Time: Jan 14 21:21:42 2025

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

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

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

Response via : Initial Calibration

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

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

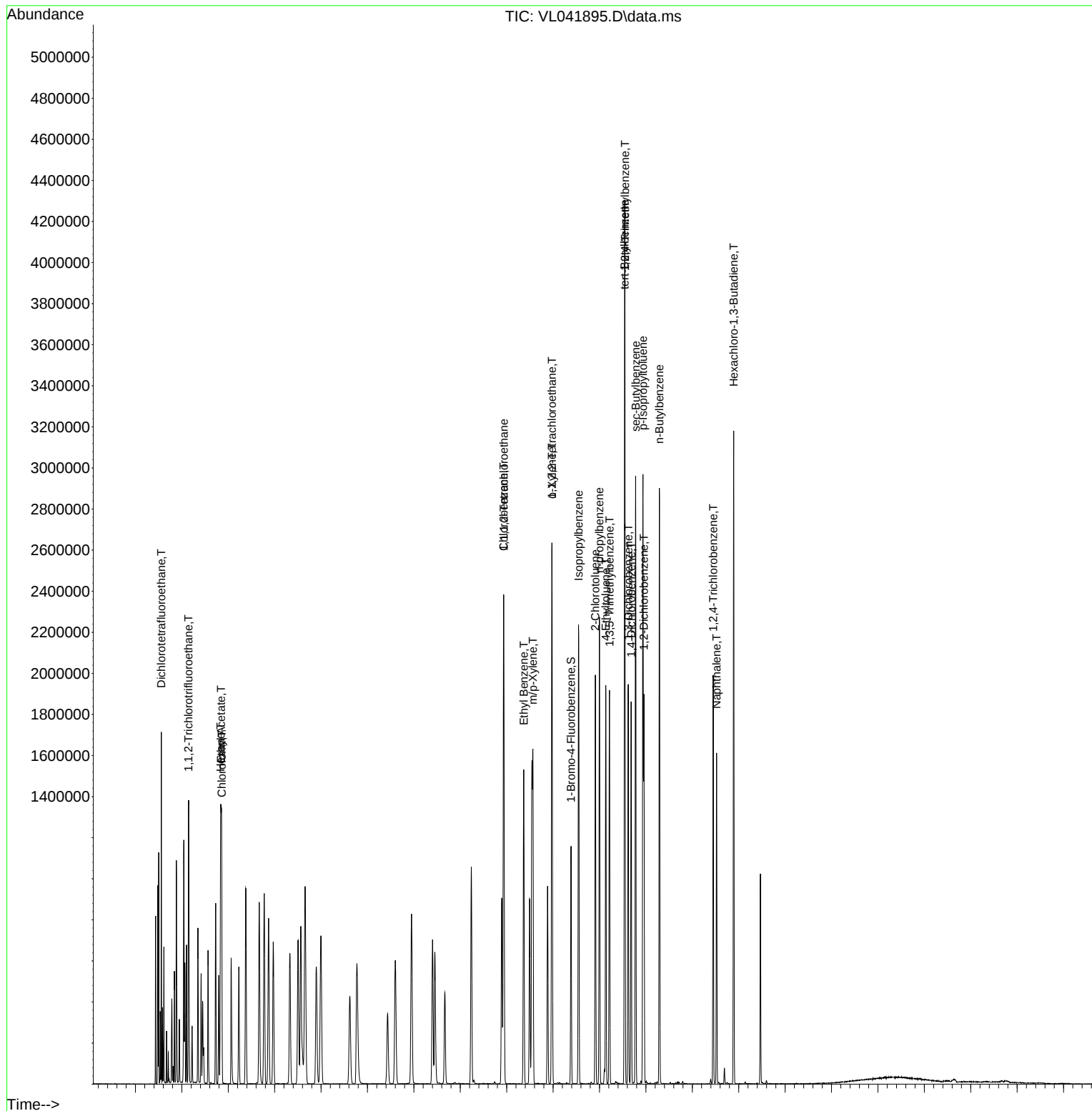
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041895.D
Acq On : 14 Jan 2025 16:05
Operator : SY/MD
Sample : VSTDIC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

Manual Integrations
 APPROVED

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

Quant Time: Jan 15 03:23:15 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

Manual Integrations
 APPROVED

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

Quant Time: Jan 15 03:23:15 2025

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

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

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

Response via : Initial Calibration

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

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

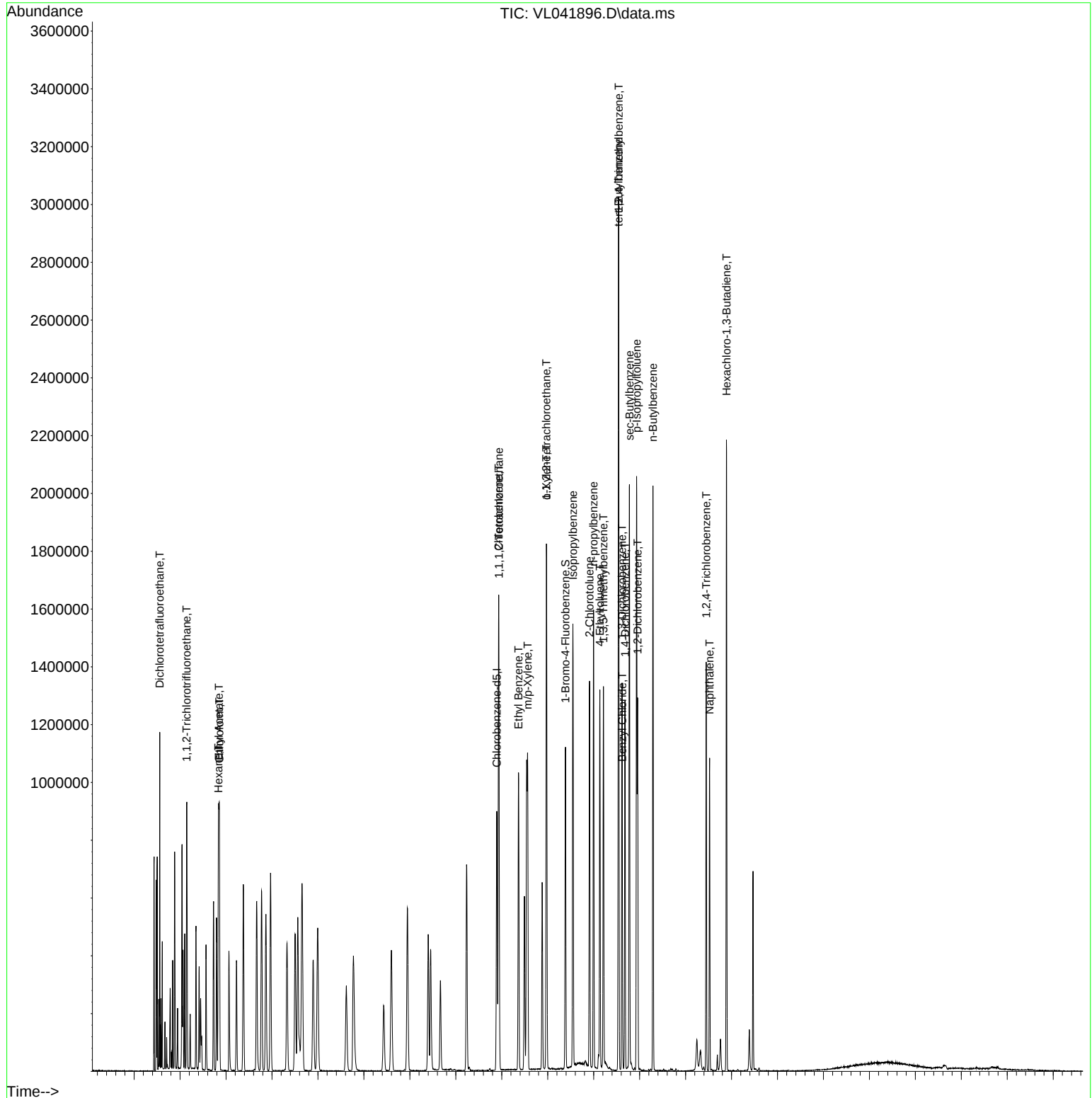
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041896.D
Acq On : 14 Jan 2025 17:33
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL011425

Manual Integrations
APPROVED

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

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



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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

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

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

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

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

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

(#) = Out of Range

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL011425

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

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL011425

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

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	Bromoform	10.000	11.136	-11.4	97	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.023	-0.2	97	0.00
51 T	2-Hexanone	10.000	10.189	-1.9	97	0.00
52 T	Tetrachloroethene	10.000	9.616	3.8	97	0.00
53 T	Toluene	10.000	10.227	-2.3	94	0.00
54 T	1,2-Dibromoethane	10.000	10.175	-1.8	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56	1,1,1,2-Tetrachloroethane	10.000	10.103	-1.0	98	0.00
57 T	Chlorobenzene	10.000	9.553	4.5	97	0.00
58 T	Ethyl Benzene	10.000	10.314	-3.1	97	0.00
59 T	m/p-Xylene	20.000	20.628	-3.1	99	0.00
60 T	o-Xylene	10.000	10.348	-3.5	98	0.00
61 T	Styrene	10.000	11.034	-10.3	98	0.00
62	Isopropylbenzene	10.000	10.136	-1.4	98	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.809	1.9	97	0.00
64	n-propylbenzene	10.000	10.048	-0.5	97	0.00
65	tert-Butylbenzene	10.000	10.043	-0.4	98	0.00
66 T	Benzyl Chloride	10.000	10.490	-4.9	92	0.00
67	sec-Butylbenzene	10.000	9.997	0.0	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.133	-1.3	95	0.00
69	p-Isopropyltoluene	10.000	10.043	-0.4	97	0.00
70	n-Butylbenzene	10.000	9.965	0.4	97	0.00
71	2-Chlorotoluene	10.000	10.234	-2.3	98	0.00
72 T	4-Ethyltoluene	10.000	10.245	-2.4	97	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.061	-0.6	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.946	0.5	98	0.00
75 T	1,3-Dichlorobenzene	10.000	9.664	3.4	98	0.00
76 T	1,4-Dichlorobenzene	10.000	9.670	3.3	97	0.00
77 T	1,2-Dichlorobenzene	10.000	9.555	4.5	98	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.929	10.7	97	0.00
79 T	Naphthalene	10.000	9.295	7.1	99	0.00
80 T	Naphthalene,2-methyl-	10.000	7.398	26.0	101	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.049	9.5	99	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1302 SAS No.: Q1302 SDG No.: Q1302

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

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

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

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.519	0.540		4.05	30
1,1-Dichloroethene	0.501	0.493		-1.6	30
cis-1,2-Dichloroethene	1.349	1.330		-1.41	30
1,1,1-Trichloroethane	1.938	2.010		3.71	30
Trichloroethene	0.364	0.411		12.91	30
Tetrachloroethene	0.318	0.341		7.23	30
1-Bromo-4-Fluorobenzene	0.788	0.783		-0.63	30

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:18:00 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:18:00 2025

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

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

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

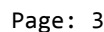
Response via : Initial Calibration

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

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

Manual Integrations APPROVED

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



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

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

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

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

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

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

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

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

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

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

(#) = Out of Range

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

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

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

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

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

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

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

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

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

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

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

(#) = Out of Range

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



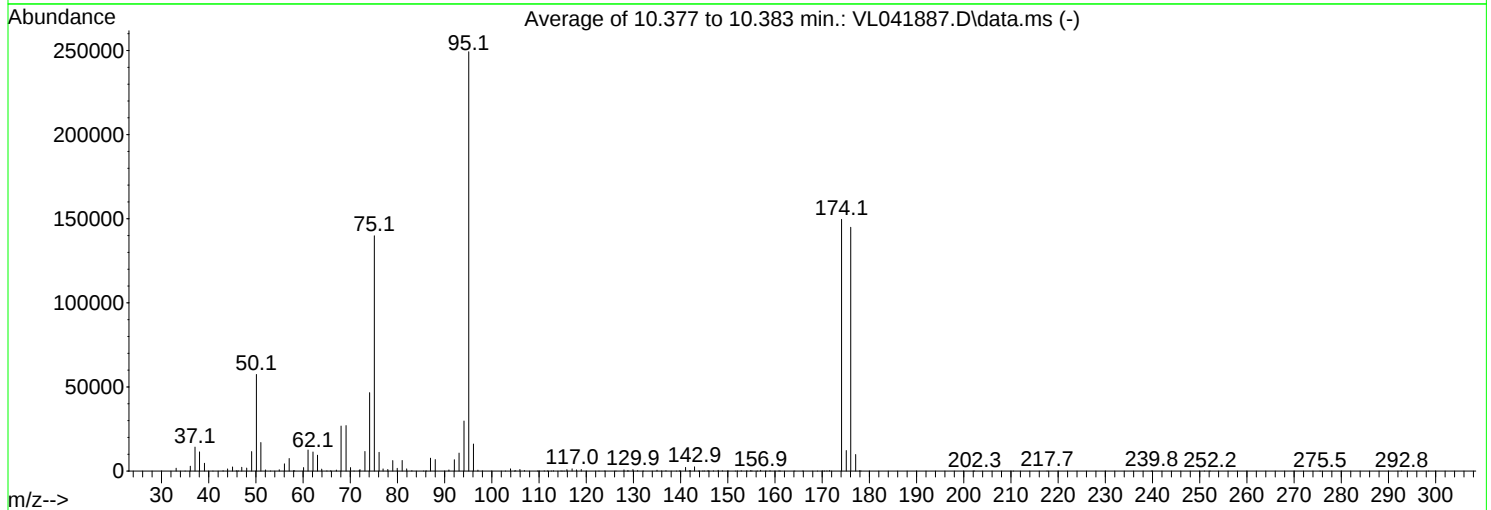
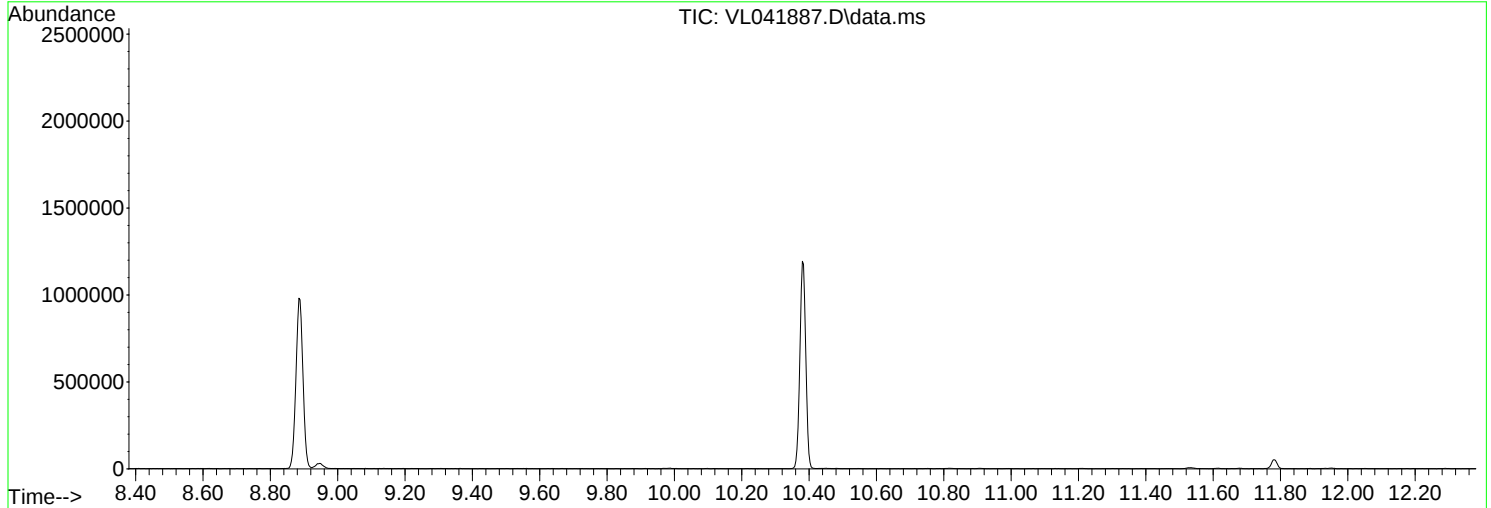
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
Data File : VL041887.D
Acq On : 14 Jan 2025 07:50
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



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

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

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

BFB

Modified:subtracted

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

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

BFB

Modified:subtracted

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

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

BFB

Modified:subtracted

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

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

BFB

Modified:subtracted

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

Instrument :

MSVOA_L

ClientSampleId :

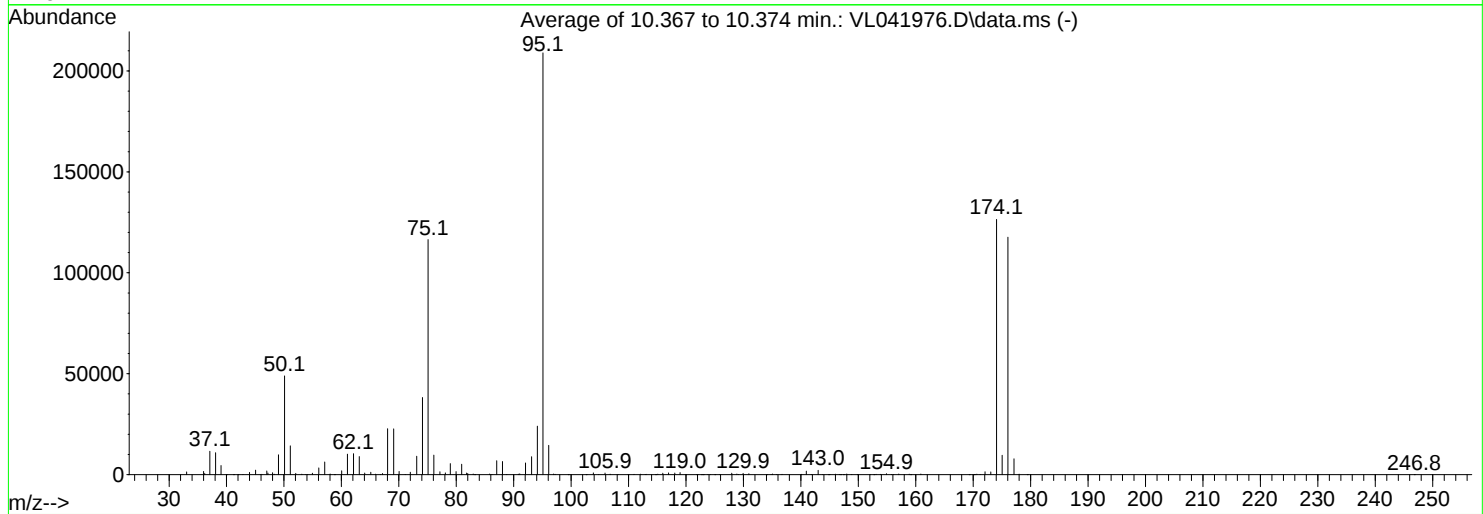
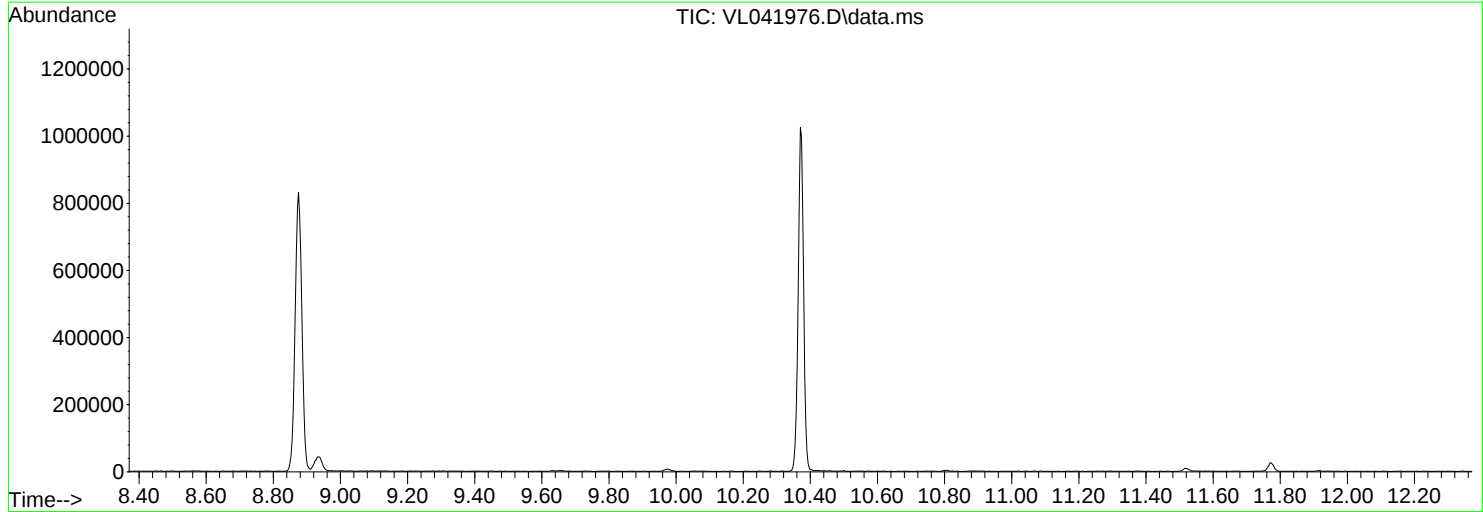
BFB

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021025\
Data File : VL041976.D
Acq On : 10 Feb 2025 07:49
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Tue Jan 14 23:15:42 2025



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

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

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

BFB

Modified:subtracted

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

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

BFB

Modified:subtracted

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

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

BFB

Modified:subtracted

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

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

BFB

Modified:subtracted

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

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	55 Contant Ave Lodi, NJ	Date Received:	
Client Sample ID:	VL0210ABL01	SDG No.:	Q1302
Lab Sample ID:	VL0210ABL01	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
VL041978.D	1		02/10/25 09:24	VL021025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
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	9.30			65 - 135	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	156000		2.781			
540-36-3	1,4-Difluorobenzene	417000		3.949			
3114-55-4	Chlorobenzene-d5	342000		8.875			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABL01

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

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

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

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

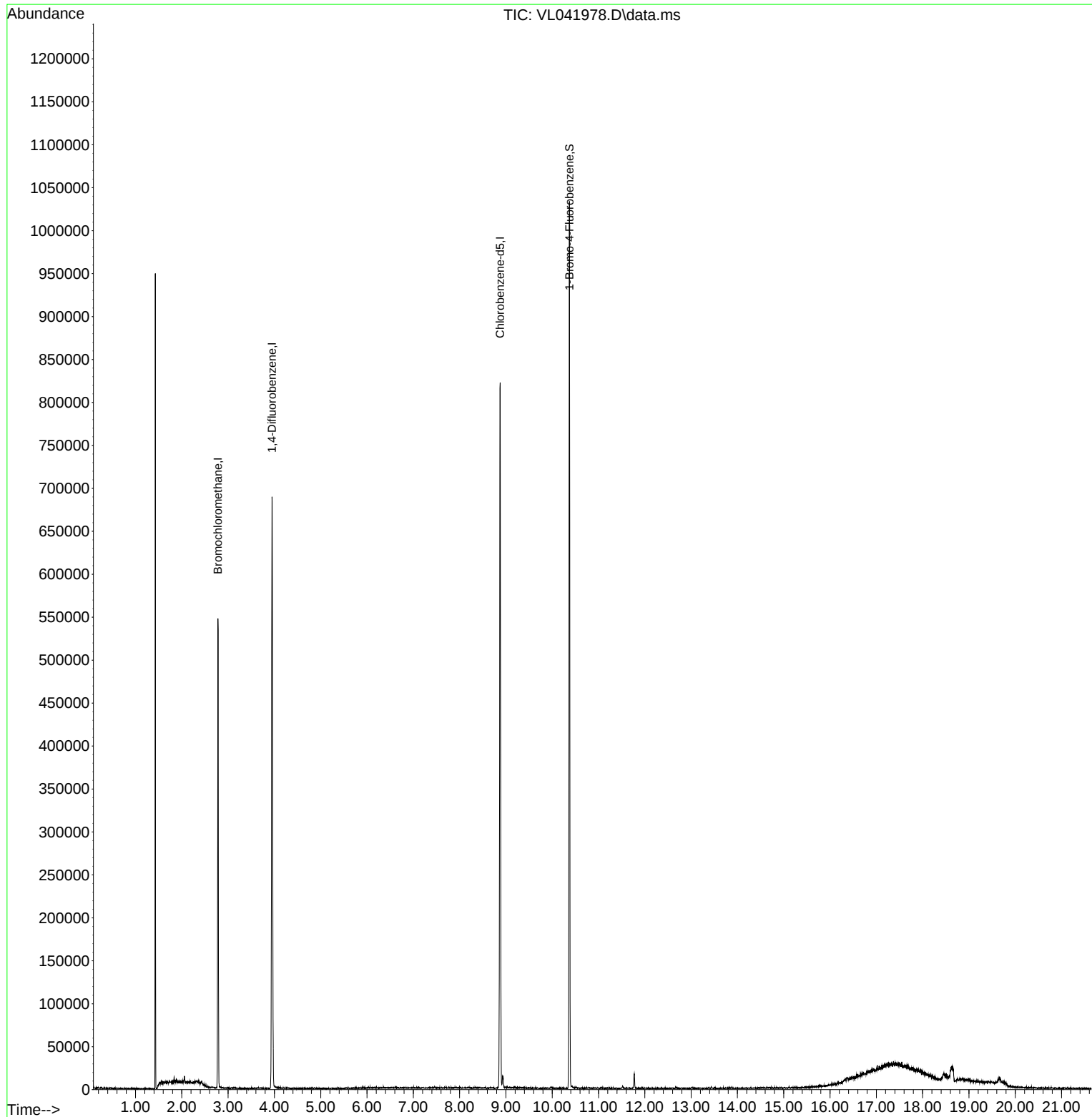
Target Compounds	Qvalue

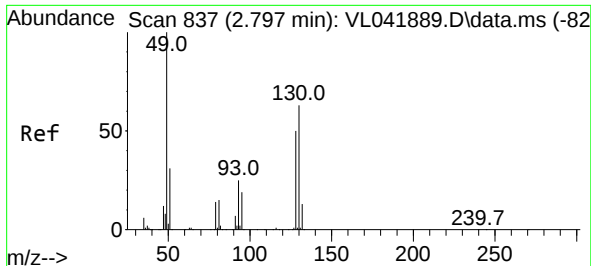
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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

Instrument :
MSVOA_L
ClientSampleId :
VL0210ABL01

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

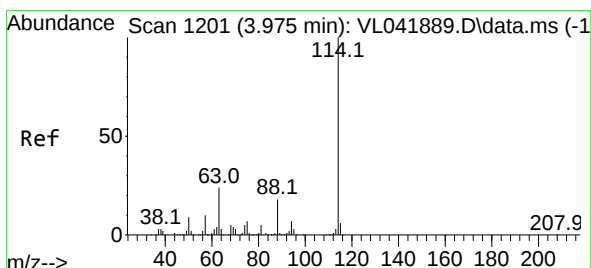
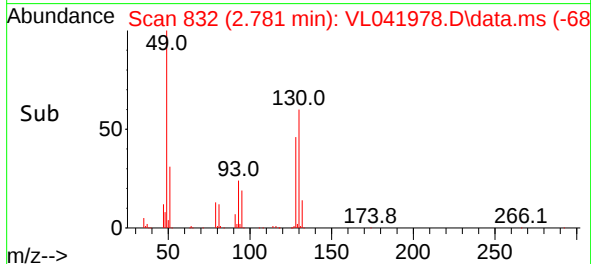
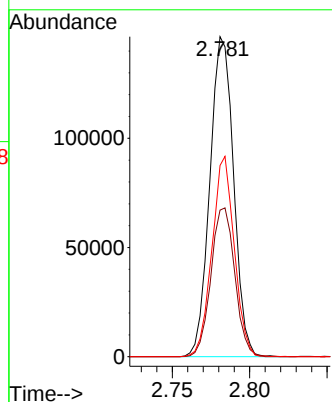
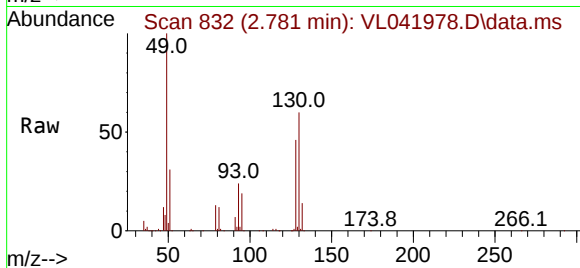




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.781 min Scan# 81
 Delta R.T. -0.016 min
 Lab File: VL041978.D
 Acq: 10 Feb 2025 09:24

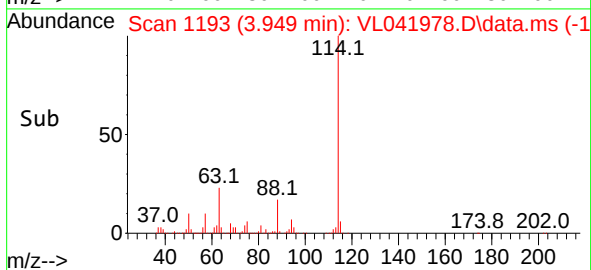
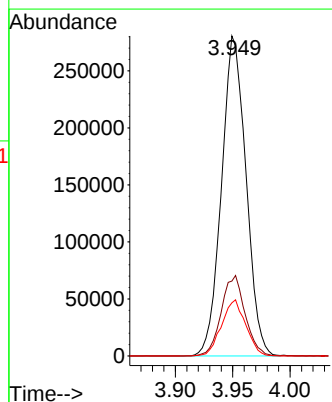
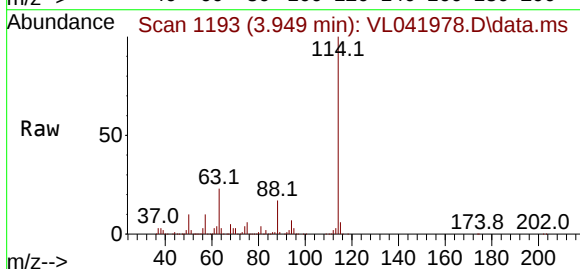
Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABL01

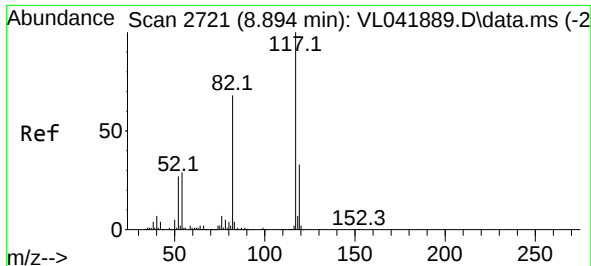
Tgt Ion: 49 Resp: 155942
 Ion Ratio Lower Upper
 49 100
 128 46.7 24.3 73.0
 130 58.9 31.1 93.2



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

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

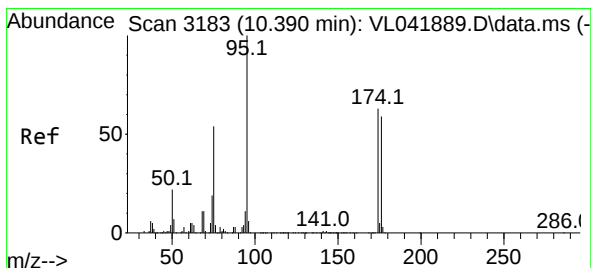
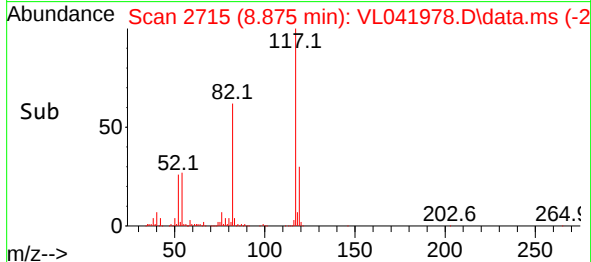
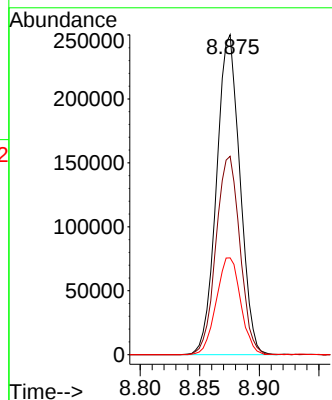
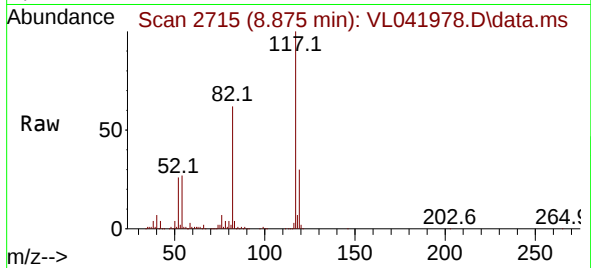




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.875 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL041978.D
Acq: 10 Feb 2025 09:24

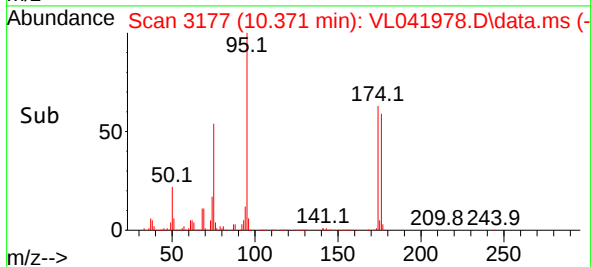
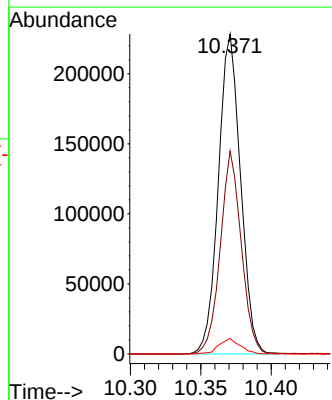
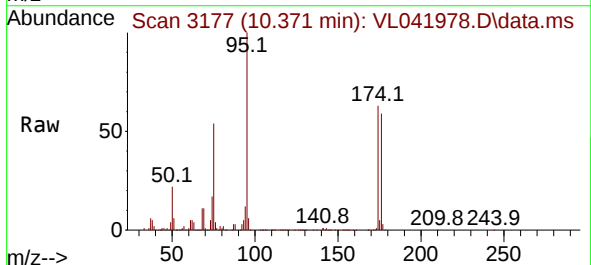
Instrument :
MSVOA_L
ClientSampleId :
VL0210ABL01

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



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

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



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	55 Contant Ave Lodi, NJ	Date Received:	
Client Sample ID:	VL0210ABS01	SDG No.:	Q1302
Lab Sample ID:	VL0210ABS01	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
VL041979.D	1		02/10/25 10:08	VL021025

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	10.7	27.4		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.50	37.7		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.1	40.0		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.4	56.7		0.050	0.16	ug/m3
79-01-6	Trichloroethene	11.4	61.3		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.7	72.6		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	152000		2.78			
540-36-3	1,4-Difluorobenzene	414000		3.952			
3114-55-4	Chlorobenzene-d5	360000		8.875			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABS01

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:19:16 2025

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

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

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

Response via : Initial Calibration

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

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

System Monitoring Compounds

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

Target Compounds

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABS01

Manual Integrations
 APPROVED

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

Quant Time: Feb 11 01:19:16 2025

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

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

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

Response via : Initial Calibration

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

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

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

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0210ABS01

Manual Integrations APPROVED

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

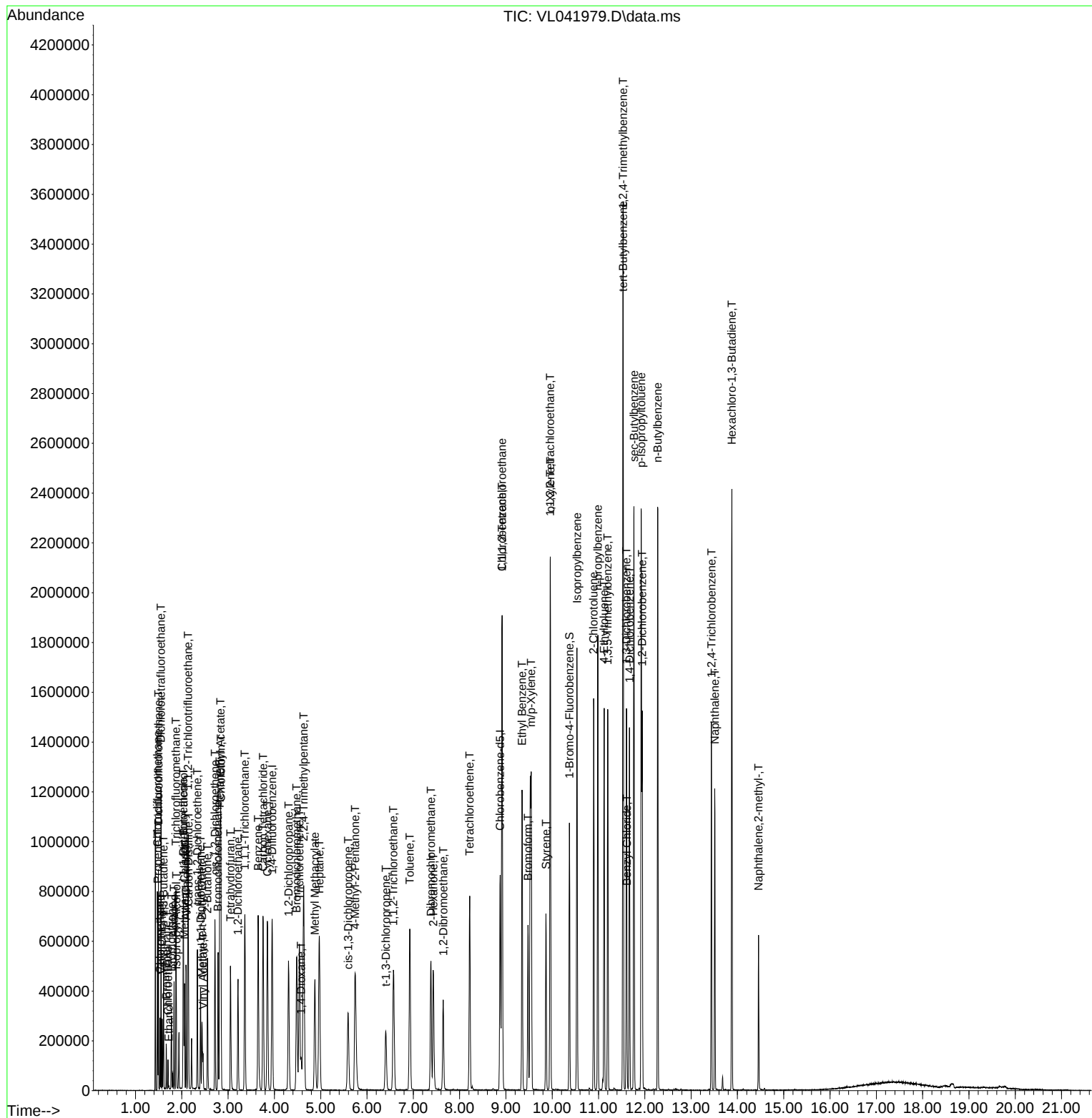
Quant Time: Feb 11 01:19:16 2025

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

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

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

Response via : Initial Calibration



Manual Integration Report

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

Manual Integration Report

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

Manual Integration Report

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



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

Manual Integration Report

Sequence:

VL011425

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VL021025	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL041977.D	m/p-Xylene	SAM	2/11/2025 8:26:32 AM	MMDadoda	2/11/2025 2:07:21 PM	Peak Integrated by Software
VL0210ABS01	VL041979.D	m/p-Xylene	SAM	2/11/2025 8:26:37 AM	MMDadoda	2/11/2025 2:07:17 PM	Peak Integrated by Software
Q1302-01	VL041982.D	Ethyl Benzene	SAM	2/11/2025 8:28:14 AM	MMDadoda	2/11/2025 2:07:10 PM	Peak Integrated by Software
Q1302-01	VL041982.D	Heptane	SAM	2/11/2025 8:28:14 AM	MMDadoda	2/11/2025 2:07:10 PM	Peak Integrated by Software
Q1302-01	VL041982.D	m/p-Xylene	SAM	2/11/2025 8:28:14 AM	MMDadoda	2/11/2025 2:07:10 PM	Peak Integrated by Software
Q1302-01	VL041982.D	Tetrachloroethene	SAM	2/11/2025 8:28:14 AM	MMDadoda	2/11/2025 2:07:10 PM	Peak Integrated by Software
Q1302-01	VL041982.D	Trichloroethene	SAM	2/11/2025 8:28:14 AM	MMDadoda	2/11/2025 2:07:10 PM	Peak Integrated by Software
Q1302-02	VL041983.D	1,1,1-Trichloroethane	SAM	2/11/2025 8:27:13 AM	MMDadoda	2/11/2025 2:07:08 PM	Peak Integrated by Software
Q1302-02	VL041983.D	Carbon Tetrachloride	SAM	2/11/2025 8:27:13 AM	MMDadoda	2/11/2025 2:07:08 PM	Peak Integrated by Software
Q1302-02	VL041983.D	Methyl Methacrylate	SAM	2/11/2025 8:27:13 AM	MMDadoda	2/11/2025 2:07:08 PM	Peak Integrated by Software
Q1302-02	VL041983.D	Tetrachloroethene	SAM	2/11/2025 8:27:13 AM	MMDadoda	2/11/2025 2:07:08 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	1,3-Butadiene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Ethyl Benzene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vl021025

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1303-03DUP	VL041990.D	Heptane	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	m/p-Xylene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Propene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Trichloroethene	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
Q1303-03DUP	VL041990.D	Trichlorofluoromethane	SAM	2/11/2025 8:27:47 AM	MMDadoda	2/11/2025 2:06:54 PM	Peak Integrated by Software
VSTDCCC010	VL041993.D	m/p-Xylene	SAM	2/11/2025 8:26:49 AM	MMDadoda	2/11/2025 2:06:49 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

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

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

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

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

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

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL021025

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

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

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL011425

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

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

Sr#	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041887.D	14 Jan 2025 07:50		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	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	VSTDICC002	VSTDICC002	VL041890.D	14 Jan 2025 13:28		SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL041891.D	14 Jan 2025 13:59		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL041892.D	14 Jan 2025 14:30		SY/MD	Ok,M
7	VSTDICC0.1	VSTDICC0.1	VL041893.D	14 Jan 2025 15:01		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL041894.D	14 Jan 2025 15:32		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	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	Mahesh Dadoda	Review On	1/15/2025 12:59:33 PM		
Supervise By	Semsettin Yesilyurt	Supervise On	1/15/2025 1:00:29 PM		
SubDirectory	VL011425	HP Acquire Method	TO15AIR.M	HP Processing Method	VL011425AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2569			
Initial Calibration Stds		AP2571,AP2572,AP2573			
CCC		AP2571			
Internal Standard/PEM		AP2569			
ICV/I.BLK		AP2574,MDL,AP2572,AP2573			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

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

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL021025

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

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

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

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL021025

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

M : Manual Integration

Client Contact Information		Bottle Order ID : B2501048		Courier : F. Gaudin		1 of 2 COCs									
Client ID : GFEL01		Project ID : 21-36-Highway Flushing NY		Sampler Name(s) : FRANK Gaudin		Analysis									
Customer Name : GFE LLC		Project Manager : FRANK Gaudin		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified		Matrix									
Address : 58 Nokomis Ave		Phone Number : 646-542-3465													
City : Lake Hiawatha		Fax Number : 973-334-1692													
State : NJ		Analysis Turnaround Time : 5 DAY		Data Package Type : RESULTS ONLY											
Zip Code : 07034		Standard : 18 business days		EDD Type : RDE											
Country : USA		Rush (Specify): 5 Days													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID		
14/08/21	14/08/21	10:30	10:30	5.5	5.5	65	65	-30	4.5	10707	10331	6 L	50	VL041615.D	
Indoor/Ambient Air															
Soil Gas															
TO-15															
GC/MS Analyst Signature (TO-15)															
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, 1,1-DCE, 1,2-DCE, VINYL CHLORIDE, 1,1,1-TCA Please follow the instructions on the back of this COC.															
Special Instructions/QC Requirements & Comments : Suspected Contamination: High Medium Low PID Readings: 13.9															
Sampling site (State): Quick Connector required: NO															
Canisters Shipped by: Sam		Date/Time: 01/31/21		Canisters Received by: Sam		Date/Time: 21/12/21		Date/Time: 21/12/21		Date/Time: 21/12/21		Date/Time: 21/12/21		Date/Time: 21/12/21	
Samples Relinquished by: Sam		Date/Time: 21/12/21		Received by: Sam		Date/Time: 21/12/21		Date/Time: 21/12/21		Date/Time: 21/12/21		Date/Time: 21/12/21		Date/Time: 21/12/21	
Relinquished by:		Date/Time:		Received by:		Date/Time:		Received by:		Date/Time:		Received by:		Date/Time:	



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

[illegible]

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample			
Laboratory: <u>Chemtech</u>		Location: <u>284 Sheffield Street, Mountainside, NJ 7092</u>	
<u>NORSE</u>		Title: <u>Sample Custodian</u>	
Field Sample Seal No.: <u>Q1302</u>		Date Broken <u>2/5/2025</u>	
Case No.: <u>55 Contant Ave Lodi, NJ</u>		Military Time Seal Broken: <u>12:00:00</u>	
Analytical Parameter/Fraction <u>VOCMS Group3</u>			

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1302-01	SV1		
Q1302-02	SV2		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
2/5	1350	Signature 	Signature 	
		Printed Name <u>NORSE</u>	Printed Name <u>Samuel Gellert</u>	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

Analyst Signature:

Supervisor Signature:

METHOD: TO-15

Pressure Gauge ID:Document Control # A3041228

Process Report

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

Order ID : Q1302

Date	Bottle ID	Lab Sample Number	InComing Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
02/05/2025	B2501048	Q1302-01	-4.5	10331	6 L	10707		C2409003	VL041615.D Seq :vl091824 TUNE : VL041600.D ICAL : VL041597.D CCAL : VL041601.D MB : VL041602.D
02/05/2025	B2501048	Q1302-02	-5.5	10283	6 L	10613		C2412001	VL041782.D Seq :vl121724 TUNE : VL041770.D ICAL : VL041757.D CCAL : VL041771.D MB : VL041774.D

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

CHEMTECH

PRO-414

Client Sample ID #

Client Name

Project Name

Date

Analysis

Comments

CHEMTECH'S SAMPLE ID

Date Received

Storage Location: VOA Lab

Sample: Q1302-02

Cust #: SV2

284 Sheffield Street, Mountaintop, NJ 07092 P: (908) 789-8900

CHEMTECH

Client Sample ID #

Client Name

Project Name

Date

Analysis

Comments

CHEMTECH'S SAMPLE ID

Date Received

Expiration Date

Date of D

Storage Location: VOA Lab

Sample: Q1302-01

Cust #: SV1