



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : 82508025				Courier : FGALDUN				<u>1</u> of <u>3</u> COCs																	
Client ID : GFEL01 Project ID : 285 Nassau Ave, Brooklyn, NY				Sampler Name(s) : FRANK GALDUN				Analysis				Matrix																	
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified																					
				Phone Number : 646-542-3465																									
				Fax Number : 973-334-1692																									
				Site Details: 271 NASSAU AVE BROOKLYN, NY																									
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY																					
				Standard : 10 business days OR				EDD Type : PDF																					
Rush (Specify): 7 Days																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas												
SU1	8/18/25	8:23	10:23	4.5	70	70	-30	15.9	10525	10443	6 L	50	VL042829.D																
Temperature (Fahrenheit) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				GC/MS Analyst Signature (TO-15) 							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Pressure (Inches of Hg) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table>											Ambient	Maximum	Minimum	Start				Stop				** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
	Ambient	Maximum	Minimum																										
Start																													
Stop																													
Special Instructions/QC Requirements & Comments :																													
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.1</u>																													
Sampling site (State):																													
Quick Connector required : <u>NO</u>																													
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>8/13/25</u>				Canisters Received by: <u>al</u>				Date/Time: <u>8/18/25 1230</u>																	
Samples Relinquished by:				Date/Time: <u>8/18/25</u>				Received by:				Date/Time:																	
Relinquished by:				Date/Time:				Received by:				Date/Time:																	

Client Contact Information				Bottle Order ID : B2508025				Courier : FGALDUN				<u>2</u> of <u>3</u> COCs					
Client ID : GFEL01				Project ID : 739 Nostrand Ave, Brooklyn, NY				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix			
Customer Name : GFE LLC Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : FRANK GALDUN				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 271 NASSAU AVE BROOKLYN, NY													
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY									
				Standard : 10 business days OR				EDD Type : PDF									
Rush (Specify): 7 Days																	
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IAI	8/18/25	8:24	10:24	OVER 30	6	70	70	-30	15.1	10550	10602	6 L	50	VL042829.D	1	1	
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 0.0																	
Sampling site (State):																	
Quick Connector required : No																	
Canisters Shipped by: [Signature]				Date/Time: 8/18/25				Canisters Received by: [Signature]				Date/Time: 8/18/25 1230				B2508025 - 6	
Samples Relinquished by: [Signature]				Date/Time: 8/18/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2508025				Courier : F Galdun				<u>3</u> of <u>3</u> COCs									
Client ID : GFEL01 Project ID : 739 NOKOMIS AVE, BROOKLYN, 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: 271 NASSAU AVE BROOKLYN, NY																	
				Analysis Turnaround Time 7 DAY				Data Package Type : RESULTS ONLY				Indoor/Ambient Air Soil Gas									
Standard : 10 business days OR				EDD Type : PDF																	
Rush (Specify): 7 Days																					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15						
OAI	8/18/25	7:59	9:59	30	5			-30	-5.9	10503	10053	6 L	50	VL042829.D	(						
Temperature (Fahrenheit)										GC/MS Analyst Signature (TO-15) [Signature]											
		Ambient	Maximum	Minimum																	
Start		68																			
Stop		71																			
Pressure (Inches of Hg)										** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY THOSE ANALYTES ON THE ATTACHED LIST Please follow the instructions on the back of this COC.											
		Ambient	Maximum	Minimum																	
Start																					
Stop																					
Special Instructions/QC Requirements & Comments :																					
Suspected Contamination: High Medium <u>Low</u> PID Readings: <u>0.0</u>																					
Sampling site (State):																					
Quick Connector required : <u>No</u>																					
Canisters Shipped by: <u>Sam</u>				Date/Time: <u>8/13/25</u>				Canisters Received by: <u>CP</u>				Date/Time: <u>8/18/25 12:30</u>				B2508025 - 1					
Samples Relinquished by: <u>FEA</u>				Date/Time: <u>8/18/25</u>				Received by:				Date/Time:									
Relinquished by:				Date/Time:				Received by:				Date/Time:									

PCE
TCE
cis-1,2-DCE
1,1-DCE
1,1,1-TCA
VINYL CHLORIDE
BENZENE
ETHYLBENZENE
NAPHTHALENE
CYCLOHEXANE
2,2,4-TRIMETHYLBENZENE
1,2,4-TRIMETHYLBENZENE
1,3,5-TRIMETHYLBENZENE
O-XYLENE
m,p-XYLENE
HEPTANE
HEXANE
TOLUENE

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	TX-C25-00189
Virginia	460312

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: Chemtech

Location: 284 Sheffield Street, Mountinside, NJ 7092

~~NASSA~~

Title: Sample Custodian

Field Sample Seal No. Q2898

Date Broken 8/18/2025

Military Time Seal Broken: 12:30:00

Case No.: 271 NASSAU AVE BROOKL

Analytical Parameter/Fraction/QCMS Group2

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q2898-01	SV1		
Q2898-02	IA1		
Q2898-03	OA1		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
8/18/25	11:10	Signature		Signature		HIL CTS
		Printed Name	Nassau Ave	Printed Name	JCM	
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		
		Signature		Signature		
		Printed Name		Printed Name		

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

DATA REPORTING QUALIFIERS- ORGANIC

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

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

LAB CHRONICLE

OrderID:	Q2898	OrderDate:	8/18/2025 1:50:00 PM
Client:	GFE LLC	Project:	271 NASSAU AVE BROOKLYN,NY
Contact:	Frank Galdun	Location:	Air Lab,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2898-01	SV1	Air	VOCMS Group2	TO-15	08/18/25		08/21/25	08/18/25
Q2898-02	IA1	Air	VOCMS Group2	TO-15	08/18/25		08/21/25	08/18/25
Q2898-03	OA1	Air	VOCMS Group2	TO-15	08/18/25		08/21/25	08/18/25

Hit Summary Sheet
SW-846

SDG No.: Q2898
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	SV1							
Q2898-01	SV1	Air	1,1,1-Trichloroethane	14.2		0.87	1.64	ug/m3
Q2898-01	SV1	Air	Trichloroethene	19.4		1.29	1.61	ug/m3
Q2898-01	SV1	Air	Toluene	14.3	J	6.03	18.8	ug/m3
Q2898-01	SV1	Air	Tetrachloroethene	67.1		1.02	2.03	ug/m3
Q2898-01	SV1	Air	Hexane	31.0		5.64	17.6	ug/m3
			Total Voc :		146			
			Total Concentration:		146			
Client ID:	IA1							
Q2898-02	IA1	Air	Heptane	2.21		0.70	2.05	ug/m3
Q2898-02	IA1	Air	Cyclohexane	1.27	J	0.76	1.72	ug/m3
Q2898-02	IA1	Air	2,2,4-Trimethylpentane	1.49	J	0.65	2.34	ug/m3
Q2898-02	IA1	Air	Benzene	1.25	J	0.26	1.60	ug/m3
Q2898-02	IA1	Air	Trichloroethene	0.32		0.11	0.16	ug/m3
Q2898-02	IA1	Air	Toluene	5.28		0.60	1.88	ug/m3
Q2898-02	IA1	Air	Tetrachloroethene	0.68		0.14	0.20	ug/m3
Q2898-02	IA1	Air	Ethyl Benzene	1.17	J	0.83	2.17	ug/m3
Q2898-02	IA1	Air	m/p-Xylene	3.65	J	1.78	4.34	ug/m3
Q2898-02	IA1	Air	o-Xylene	1.87	J	0.91	2.17	ug/m3
Q2898-02	IA1	Air	1,3,5-Trimethylbenzene	6.88		0.88	2.46	ug/m3
Q2898-02	IA1	Air	1,2,4-Trimethylbenzene	23.6		0.88	2.46	ug/m3
Q2898-02	IA1	Air	Naphthalene	0.94		0.050	0.52	ug/m3
Q2898-02	IA1	Air	Hexane	9.87		0.56	1.76	ug/m3
			Total Voc :		60.5			
			Total Concentration:		60.5			



QC SUMMARY

Surrogate Summary

SDG No.: Q2898

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
							Low	High
Q2898-01	SV1	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q2898-02	IA1	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135
Q2898-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	10.7	107		65	135
Q2898-03	OA1	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
VL0821ABL01	VL0821ABL01	1-Bromo-4-Fluorobenzene	10	10.1	101		65	135
VL0821ABS01	VL0821ABS01	1-Bromo-4-Fluorobenzene	10	10.5	105		65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.:	<u>Q2898</u>	Analytical Method:	<u>SWTO-15</u>
Client:	<u>GFE LLC</u>	Datafile :	<u>VL042868.D</u>

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0821ABS01	Vinyl Chloride	10	8.80	ppbv	88			70	130	
	Heptane	10	9.10	ppbv	91			70	130	
	1,1-Dichloroethene	10	10.1	ppbv	101			70	130	
	Cyclohexane	10	9.40	ppbv	94			70	130	
	cis-1,2-Dichloroethene	10	9.50	ppbv	95			70	130	
	1,1,1-Trichloroethane	10	9.60	ppbv	96			70	130	
	2,2,4-Trimethylpentane	10	9.80	ppbv	98			70	130	
	Benzene	10	10.1	ppbv	101			70	130	
	Trichloroethene	10	9.80	ppbv	98			70	130	
	Toluene	10	9.70	ppbv	97			70	130	
	Tetrachloroethene	10	8.80	ppbv	88			70	130	
	Ethyl Benzene	10	10.0	ppbv	100			70	130	
	m/p-Xylene	20	20.4	ppbv	102			70	130	
	o-Xylene	10	10.1	ppbv	101			70	130	
	1,3,5-Trimethylbenzene	10	9.90	ppbv	99			70	130	
	1,2,4-Trimethylbenzene	10	9.80	ppbv	98			70	130	
	Naphthalene	10	9.80	ppbv	98			70	130	
	Hexane	10	9.50	ppbv	95			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q2898-02DUP	Q2898-02
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042877.D	VL042873.D
Anal Date & Time :	08/22/2025 08:35	08/21/2025 19:39

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
1,2,4-Trimethylbenzene	4.3	4.8	11
1,3,5-Trimethylbenzene	1.2	1.4	15.4
2,2,4-Trimethylpentane	0.29	0.32	9.8
Benzene	0.34	0.39	13.7
cis-1,2-Dichloroethene	0	0	0
Cyclohexane	0.28	0.37	27.7 *
Ethyl Benzene	0.21	0.27	25 *
Heptane	0.45	0.54	18.2
Hexane	2.6	2.8	7.4
m/p-Xylene	0.69	0.84	19.6
Naphthalene	0.14	0.18	25 *
o-Xylene	0.41	0.43	4.8
Tetrachloroethene	0.1	0.1	0
Toluene	1.2	1.4	15.4
Trichloroethene	0.05	0.06	18.2
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

Client ID

IA1DUP

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2898

Lab File ID: VL042877.D

Lab Sample ID: Q2898-02DUP

Date Analyzed: 08/22/2025

Time Analyzed: 08:35

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	Q2898-02DUP	VL042877.D	08/22/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0821ABL01

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2898

Lab File ID: VL042867.D

Lab Sample ID: VL0821ABL01

Date Analyzed: 08/21/2025

Time Analyzed: 14:43

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
VL0821ABS01	VL0821ABS01	VL042868.D	08/21/2025
IA1	Q2898-02	VL042873.D	08/21/2025
OA1	Q2898-03	VL042874.D	08/21/2025
SV1	Q2898-01	VL042875.D	08/21/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2898

Lab File ID: VL042841.D

BFB Injection Date: 08/13/2025

Instrument ID: MSVOA_L

BFB Injection Time: 07:45

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	20.8
75	30.0 - 66.0% of mass 95	53.1
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	0.3 (0.4) 1
174	50.0 - 120.0% of mass 95	62
175	4.0 - 9.0% of mass 174	4.5 (7.3) 1
176	93.0 - 101.0% of mass 174	60 (96.7) 1
177	5.0 - 9.0% of mass 176	3.7 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042842.D	08/13/2025	08:30
VSTDICCC002	VSTDICCC002	VL042843.D	08/13/2025	09:06
VSTDICCC001	VSTDICCC001	VL042844.D	08/13/2025	09:41
VSTDICCC0.5	VSTDICCC0.5	VL042845.D	08/13/2025	10:17
VSTDICCC0.1	VSTDICCC0.1	VL042846.D	08/13/2025	10:53
VSTDICCC0.03	VSTDICCC0.03	VL042847.D	08/13/2025	11:30
VSTDICCC015	VSTDICCC015	VL042848.D	08/13/2025	12:06

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG NO.: Q2898

Lab File ID: VL042865.D

BFB Injection Date: 08/21/2025

Instrument ID: MSVOA_L

BFB Injection Time: 12:15

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

Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	56.7
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	0.7 (1.2) 1
174	50.0 - 120.0% of mass 95	56.1
175	4.0 - 9.0% of mass 174	3.9 (7) 1
176	93.0 - 101.0% of mass 174	52.7 (94) 1
177	5.0 - 9.0% of mass 176	3.3 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042866.D	08/21/2025	13:57
VL0821ABL01	VL0821ABL01	VL042867.D	08/21/2025	14:43
VL0821ABS01	VL0821ABS01	VL042868.D	08/21/2025	16:24
IA1	Q2898-02	VL042873.D	08/21/2025	19:39
OA1	Q2898-03	VL042874.D	08/21/2025	20:13
SV1	Q2898-01	VL042875.D	08/21/2025	20:49
IA1DUP	Q2898-02DUP	VL042877.D	08/22/2025	08:35

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: GFEL01
 Lab Code: ACE SDG NO.: Q2898
 Lab File ID: VL042866.D Date Analyzed: 08/21/2025
 Instrument ID: MSVOA_L Time Analyzed: 13:57
 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	135675	2.79	398583	3.97	346592	8.89
UPPER LIMIT	189945	3.12	558016	4.30	485229	9.22
LOWER LIMIT	81405	2.46	239150	3.64	207955	8.56
EPA SAMPLE NO.						
SV1	129055	2.79	359766	3.97	312105	8.89
IA1	129333	2.79	377000	3.97	320502	8.89
IA1DUP	121878	2.79	348957	3.96	298585	8.89
OA1	129498	2.79	383631	3.97	315784	8.89
VL0821ABL01	130204	2.79	388987	3.97	334020	8.89
VL0821ABS01	129175	2.79	381111	3.97	329136	8.89

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

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

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



SAMPLE DATA

Report of Analysis

Client:	GFE LLC	Date Collected:	08/18/25
Project:	271 NASSAU AVE BROOKLYN, NY	Date Received:	08/18/25
Client Sample ID:	SV1	SDG No.:	Q2898
Lab Sample ID:	Q2898-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	40	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042875.D	10		08/21/25 20:49	VL082125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
142-82-5	Heptane	1.70	6.97	U	6.97	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
110-82-7	Cyclohexane	2.20	7.57	U	7.57	17.2	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	U	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	2.60	14.2		0.87	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	U	6.54	23.4	ug/m3
71-43-2	Benzene	0.79	2.52	U	2.52	16.0	ug/m3
79-01-6	Trichloroethene	3.60	19.4		1.29	1.61	ug/m3
108-88-3	Toluene	3.80	14.3	J	6.03	18.8	ug/m3
127-18-4	Tetrachloroethene	9.90	67.1		1.02	2.03	ug/m3
100-41-4	Ethyl Benzene	1.90	8.25	U	8.25	21.7	ug/m3
179601-23-1	m/p-Xylene	4.10	17.8	U	17.8	43.4	ug/m3
95-47-6	o-Xylene	2.10	9.12	U	9.12	21.7	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	U	8.85	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	U	8.85	24.6	ug/m3
91-20-3	Naphthalene	0.13	0.68	U	0.68	5.24	ug/m3
110-54-3	Hexane	8.80	31.0		5.64	17.6	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	129000			2.794		
540-36-3	1,4-Difluorobenzene	360000			3.965		
3114-55-4	Chlorobenzene-d5	312000			8.888		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042875.D
 Acq On : 21 Aug 2025 20:49
 Operator : SY/MD
 Sample : Q2898-01 10X
 Misc : 40mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:28:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:28:32 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	129055	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	359766	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	312105	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	245698	10.497	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.000%
Target Compounds						Qvalue
9) Propene	1.486	41	4423	0.490	ppbv	96
10) Heptane	4.991	43	3898m	0.161	ppbv	
13) Ethanol	1.722	45	47758	57.850	ppbv	89
15) Acetone	1.839	43	60296	3.532	ppbv	99
19) Isopropyl Alcohol	1.891	45	12424	1.218	ppbv #	1
20) Methylene Chloride	2.062	84	1651	0.231	ppbv	90
26) Hexane	2.829	57	16759	0.879	ppbv #	45
29) Chloroform	2.852	83	48050	1.765	ppbv	94
32) 1,1,1-Trichloroethane	3.373	97	7578	0.263	ppbv	95
34) 2-Butanone	2.567	43	6505	0.268	ppbv	99
38) Trichloroethene	4.561	130	5589m	0.355	ppbv	
52) Tetrachloroethene	8.225	164	12383m	0.994	ppbv	
53) Toluene	6.940	91	15689m	0.383	ppbv	
59) m/p-Xylene	9.539	91	7754m	0.180	ppbv	
74) 1,2,4-Trimethylbenzene	11.542	105	6417m	0.131	ppbv	

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

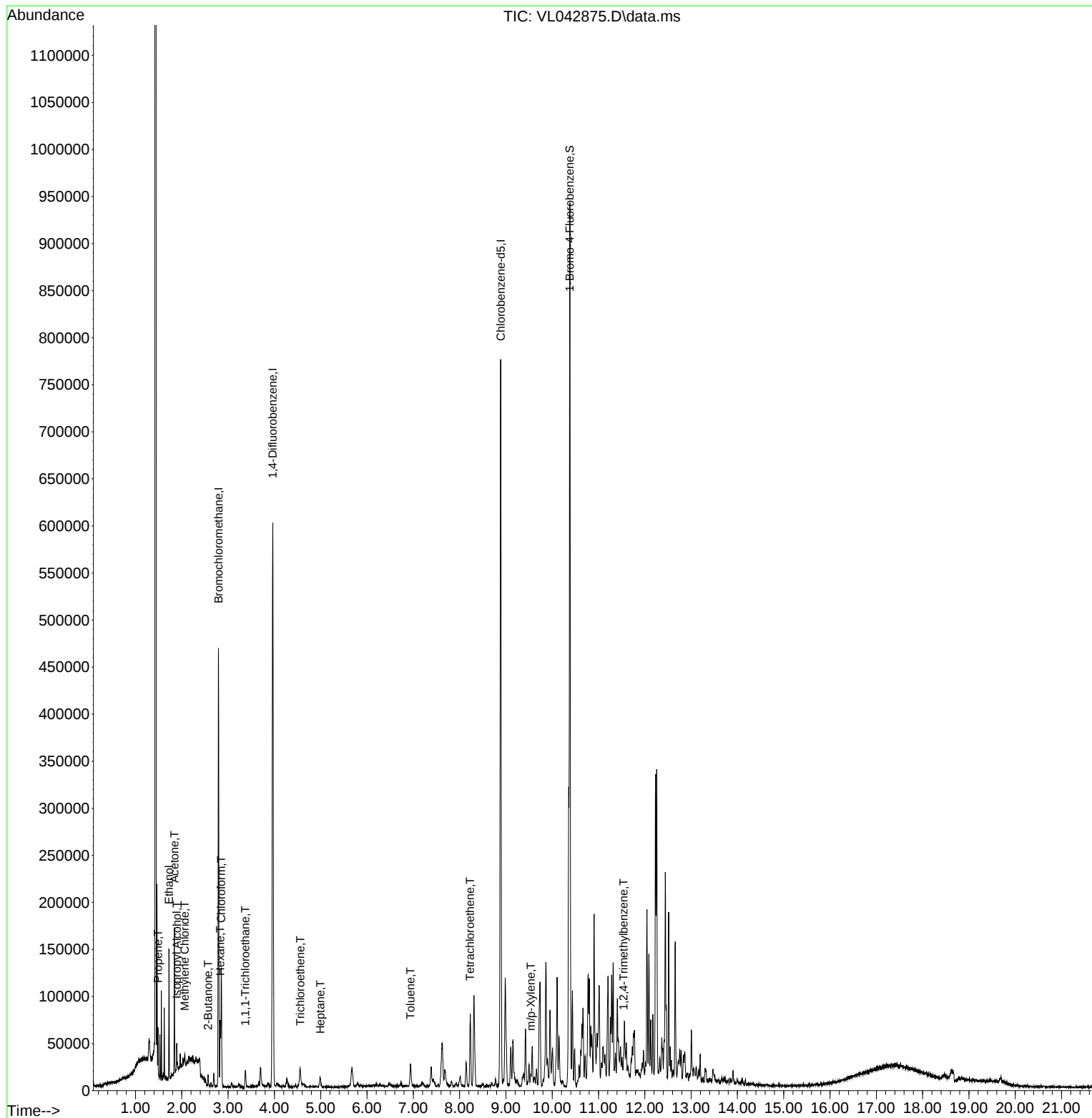
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042875.D
Acq On : 21 Aug 2025 20:49
Operator : SY/MD
Sample : Q2898-01 10X
Misc : 40mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

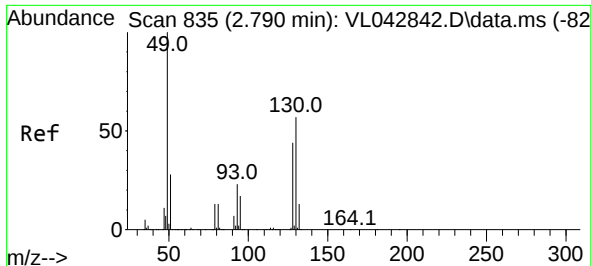
Instrument :
MSVOA_L
ClientSampleId :
SV1

Quant Time: Aug 22 01:28:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

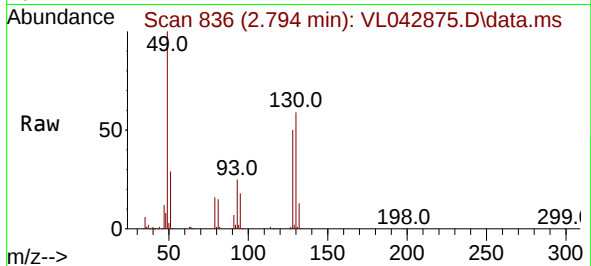
Reviewed By : Mahesh Dadoda 08/25/2025
Supervised By : Semsettin Yesilyurt 08/25/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

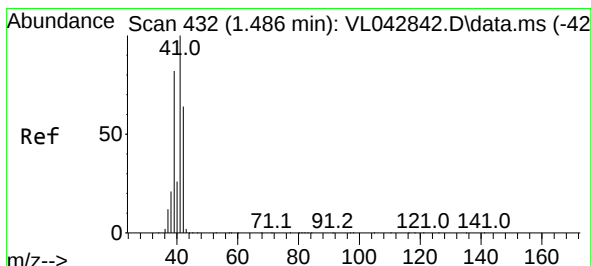
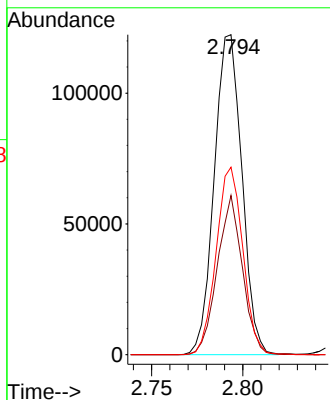
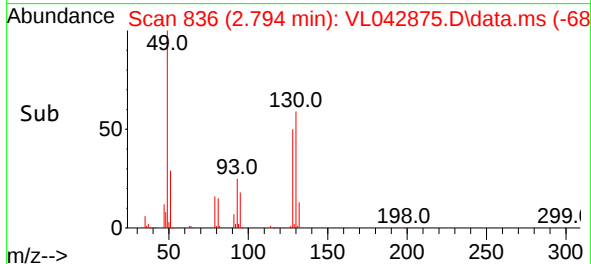
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 49 Resp: 12905
Ion Ratio Lower Upper
49 100
128 45.2 23.7 71.1
130 56.6 30.6 91.6

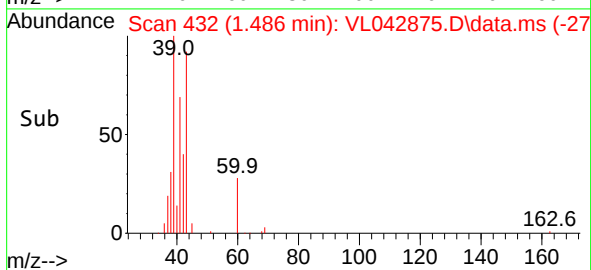
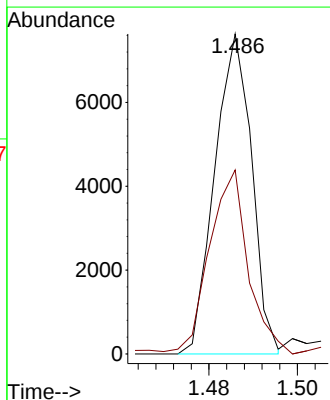
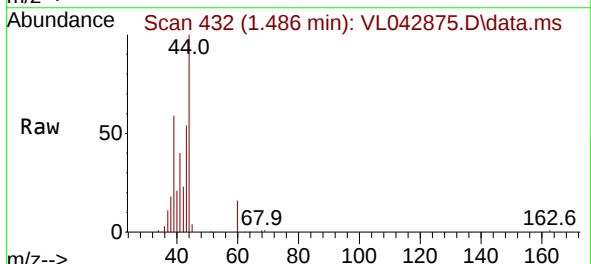
Manual Integrations
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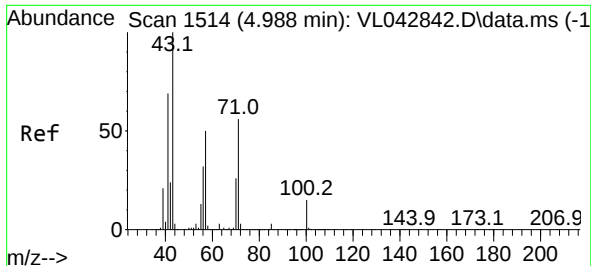
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#9
Propene
Concen: 0.490 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.000 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

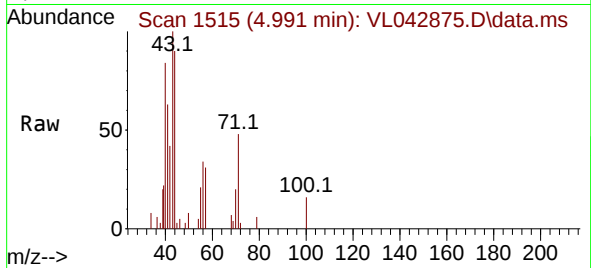
Tgt Ion: 41 Resp: 4423
Ion Ratio Lower Upper
41 100
42 69.1 53.0 79.4





#10
Heptane
Concen: 0.161 ppbv m
RT: 4.991 min Scan# 1515
Delta R.T. 0.003 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

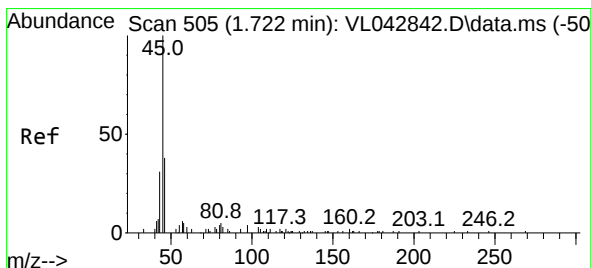
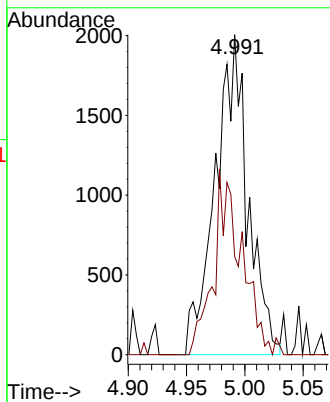
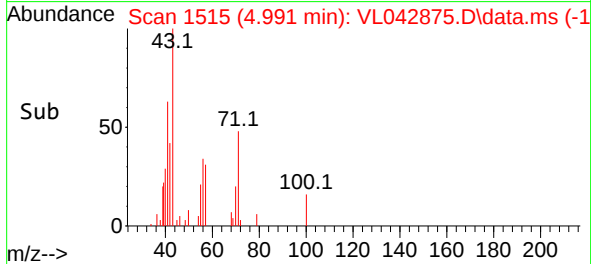
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion: 43 Resp: 3898
Ion Ratio Lower Upper
43 100
57 0.0 41.4 62.0

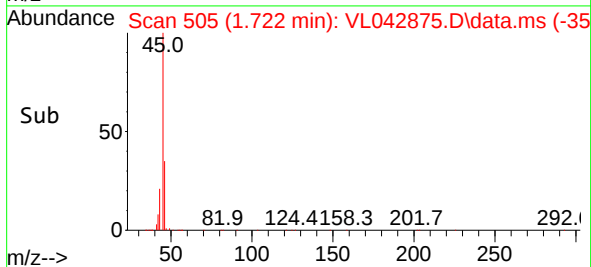
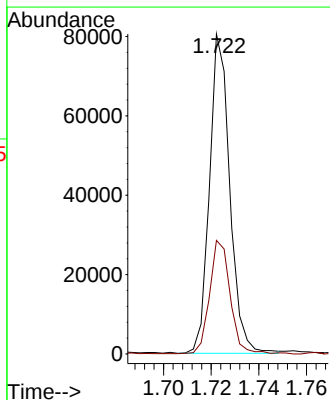
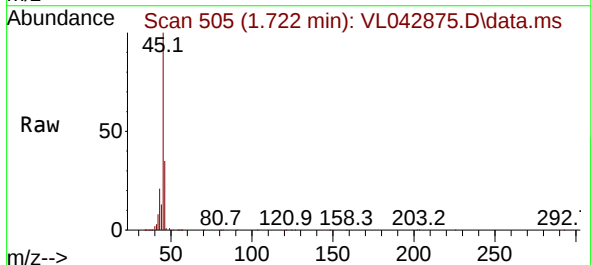
Manual Integrations
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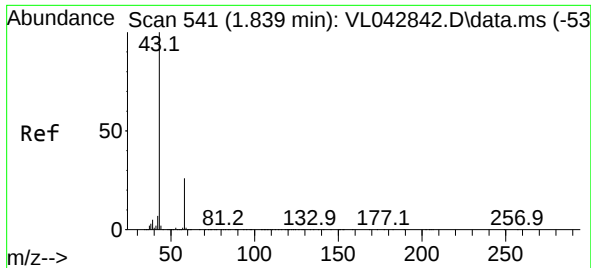
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#13
Ethanol
Concen: 57.850 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.000 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

Tgt Ion: 45 Resp: 47758
Ion Ratio Lower Upper
45 100
46 36.6 17.5 69.9





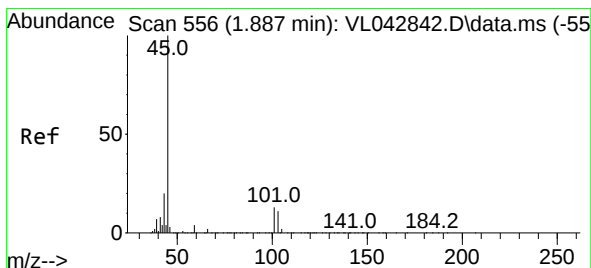
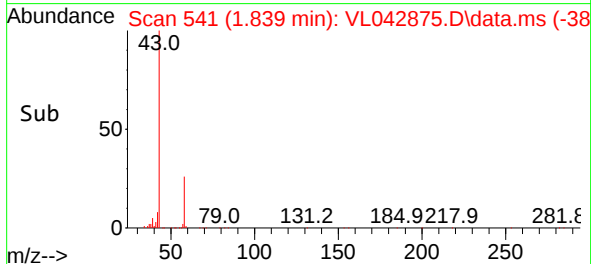
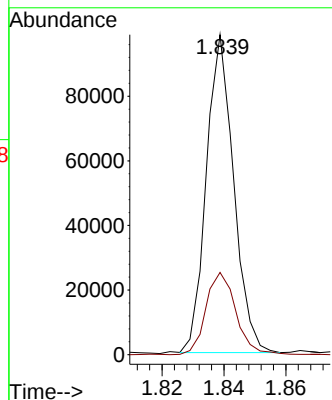
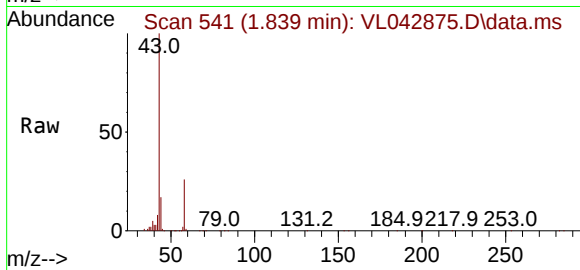
#15
Acetone
Concen: 3.532 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 43 Resp: 60290
Ion Ratio Lower Upper
43 100
58 28.6 22.4 33.6

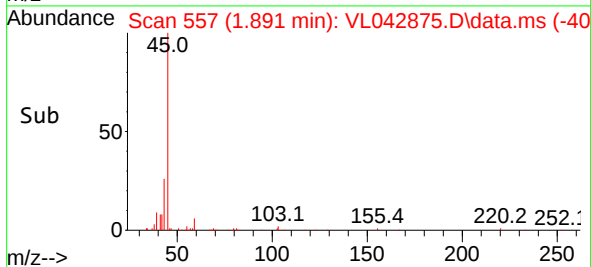
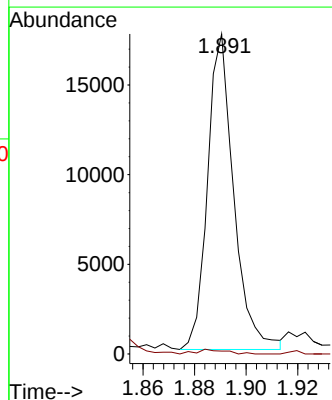
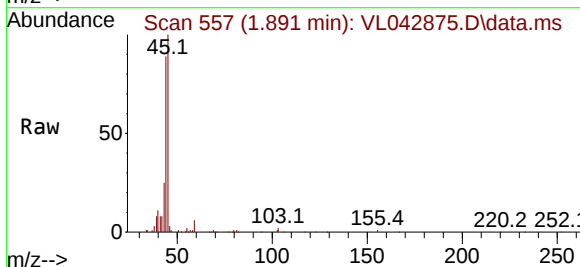
Manual Integrations
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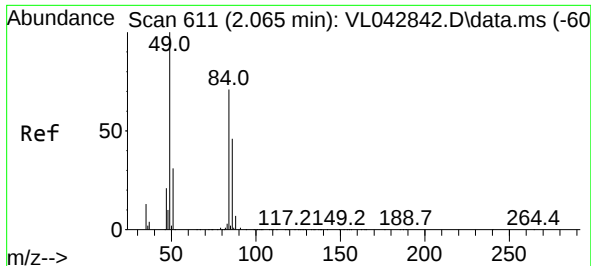
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#19
Isopropyl Alcohol
Concen: 1.218 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

Tgt Ion: 45 Resp: 12424
Ion Ratio Lower Upper
45 100
58 138.6 32.7 49.1#





#20

Methylene Chloride

Concen: 0.231 ppbv

RT: 2.062 min Scan# 611

Delta R.T. -0.003 min

Lab File: VL042875.D

Acq: 21 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 84 Resp: 165

Ion Ratio Lower Upper

84 100

49 152.0 112.3 168.5

51 37.1 36.0 54.0

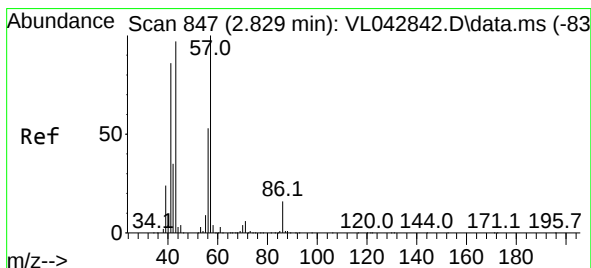
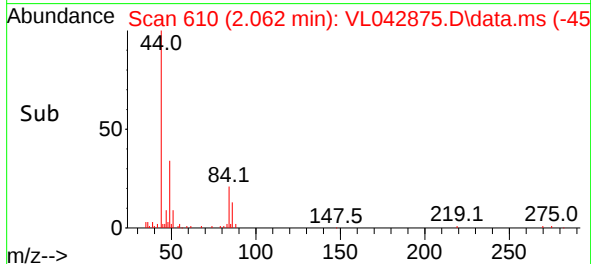
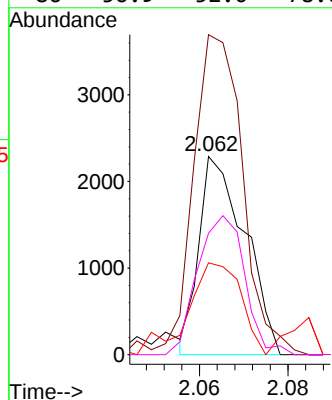
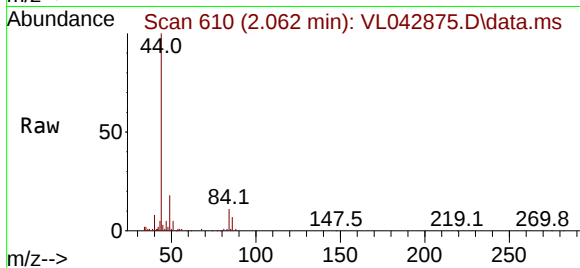
86 56.9 52.0 78.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#26

Hexane

Concen: 0.879 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.000 min

Lab File: VL042875.D

Acq: 21 Aug 2025 20:49

Tgt Ion: 57 Resp: 16759

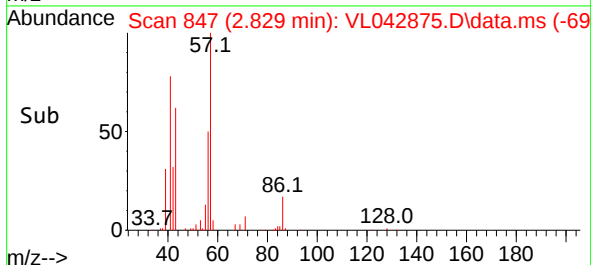
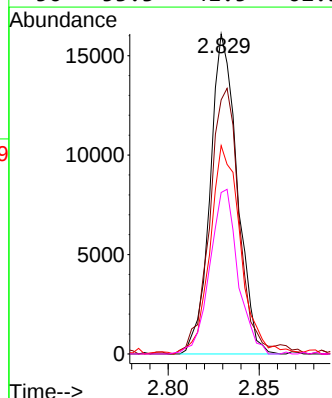
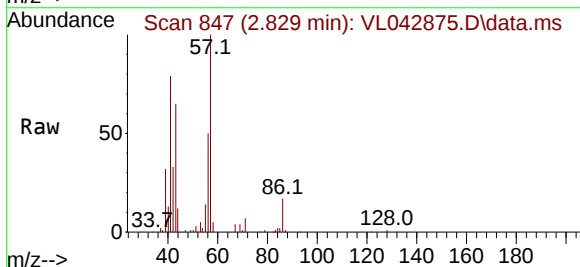
Ion Ratio Lower Upper

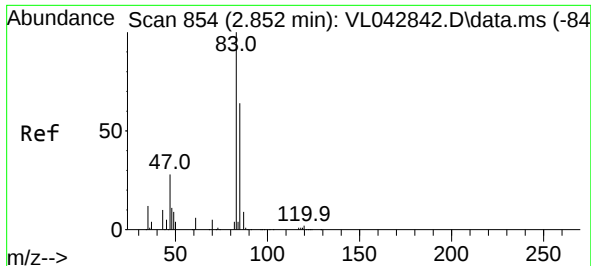
57 100

41 92.9 68.6 103.0

43 74.2 168.5 252.7#

56 53.3 41.5 62.3





#29

Chloroform

Concen: 1.765 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042875.D

Acq: 21 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion: 83 Resp: 48050

Ion Ratio Lower Upper

83 100

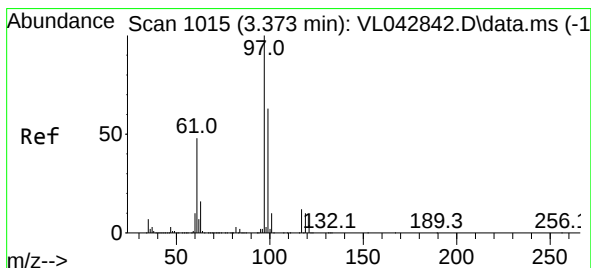
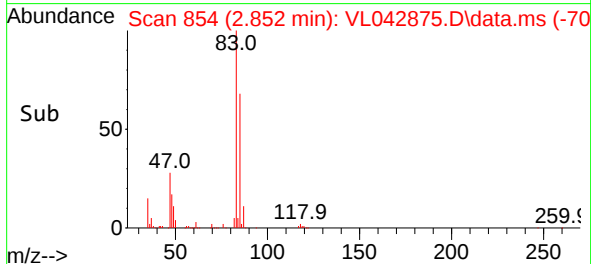
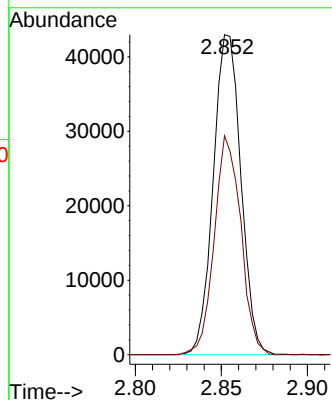
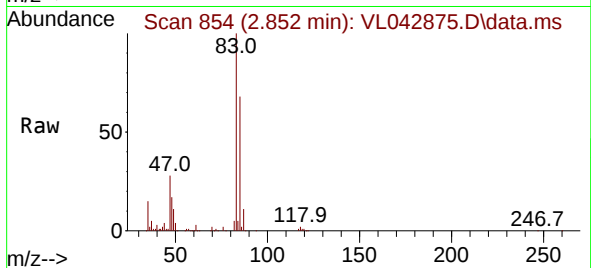
85 68.4 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#32

1,1,1-Trichloroethane

Concen: 0.263 ppbv

RT: 3.373 min Scan# 1015

Delta R.T. 0.000 min

Lab File: VL042875.D

Acq: 21 Aug 2025 20:49

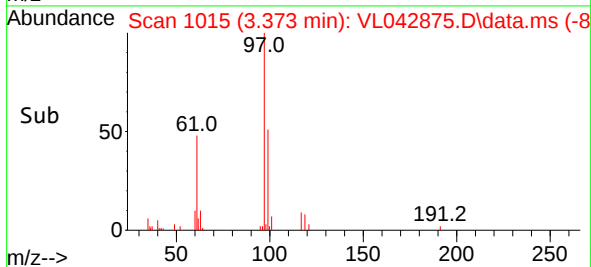
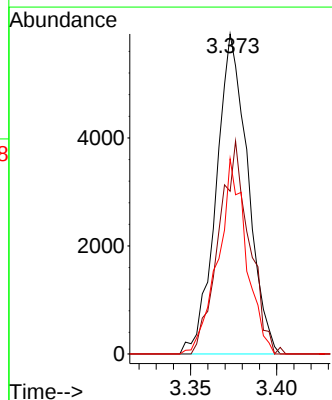
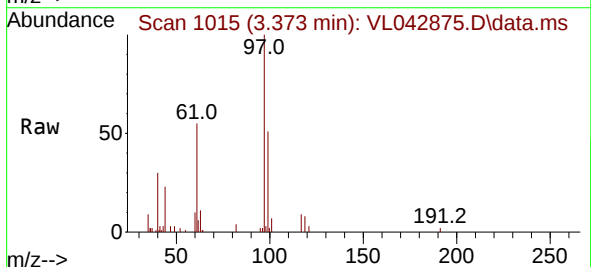
Tgt Ion: 97 Resp: 7578

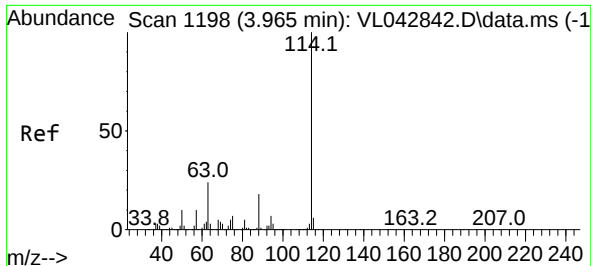
Ion Ratio Lower Upper

97 100

99 64.1 51.0 76.6

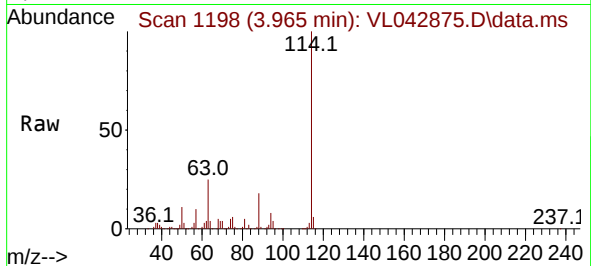
61 54.3 38.0 57.0





#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.965 min Scan# 1198
Delta R.T. 0.000 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

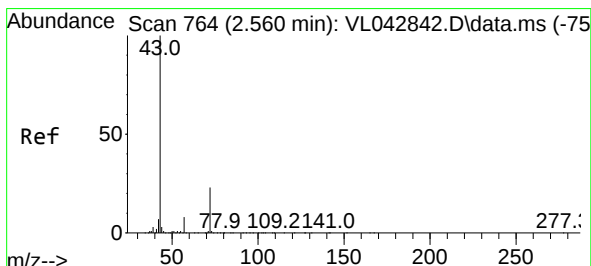
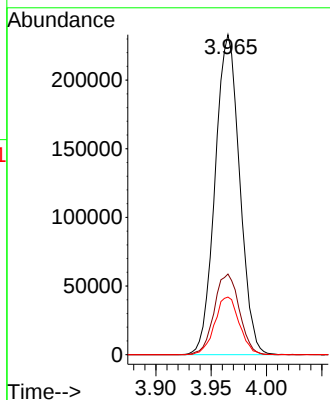
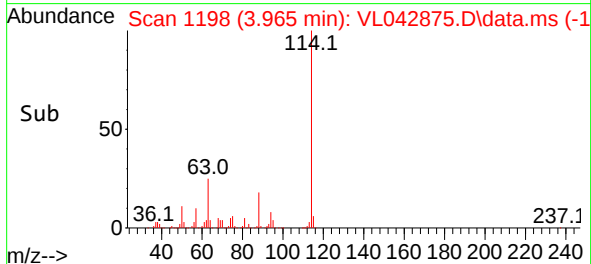
Instrument :
MSVOA_L
ClientSampleId :
SV1



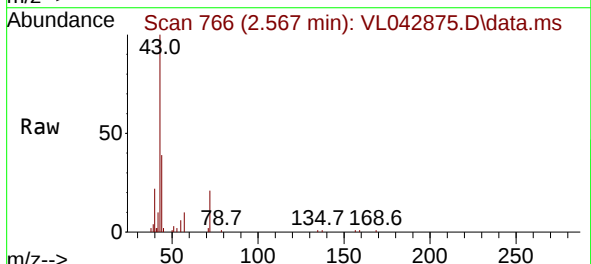
Tgt Ion:114 Resp: 359760
Ion Ratio Lower Upper
114 100
63 25.7 19.7 29.5
88 18.1 14.4 21.6

Manual Integrations
APPROVED

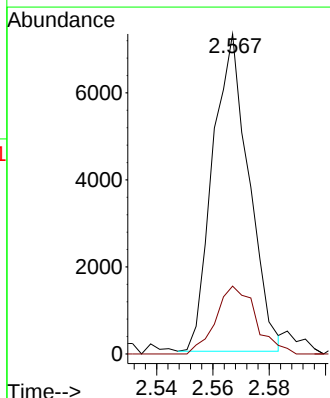
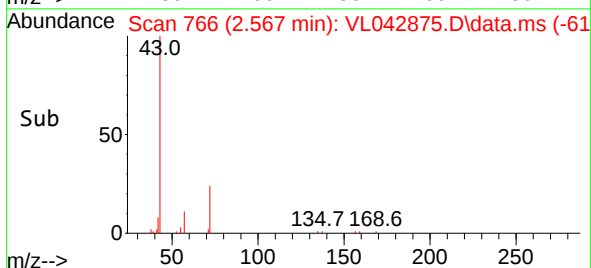
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

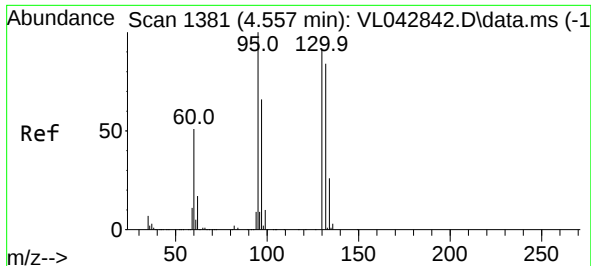


#34
2-Butanone
Concen: 0.268 ppbv
RT: 2.567 min Scan# 766
Delta R.T. 0.006 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49



Tgt Ion: 43 Resp: 6505
Ion Ratio Lower Upper
43 100
72 23.6 18.6 28.0





#38

Trichloroethene

Concen: 0.355 ppbv m

RT: 4.561 min Scan# 1381

Delta R.T. 0.003 min

Lab File: VL042875.D

Acq: 21 Aug 2025 20:49

Instrument :

MSVOA_L

ClientSampleId :

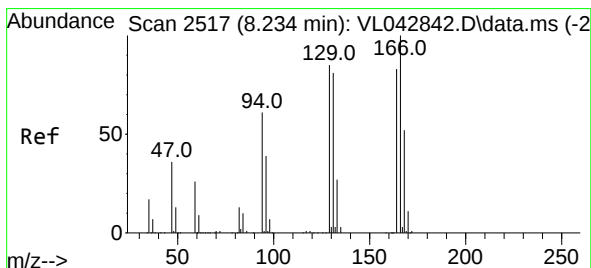
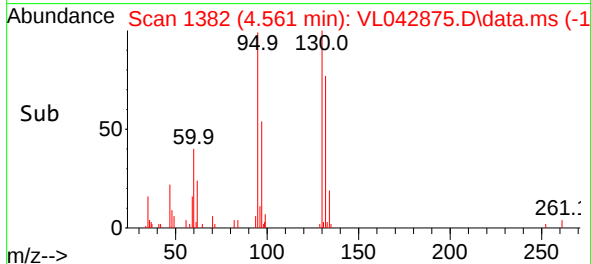
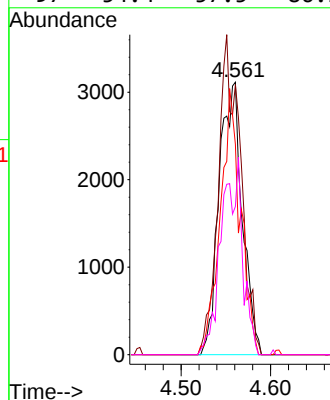
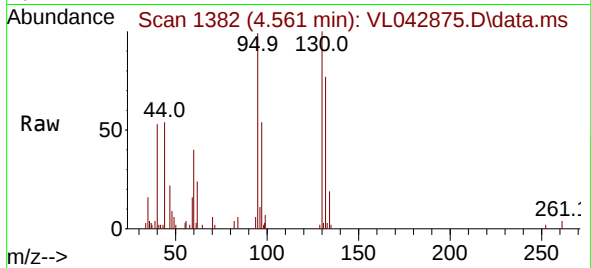
SV1

Tgt Ion:	130	Resp:	5589
Ion Ratio	Lower	Upper	
130	100		
95	99.1	87.6	131.4
132	77.2	73.8	110.8
97	54.4	57.5	86.3

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#52

Tetrachloroethene

Concen: 0.994 ppbv m

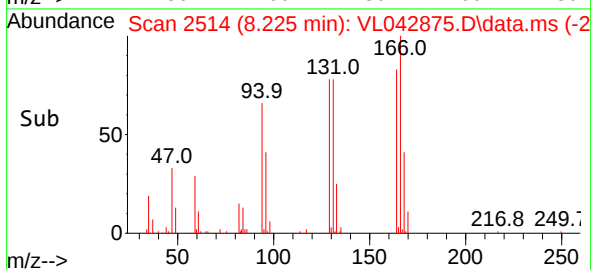
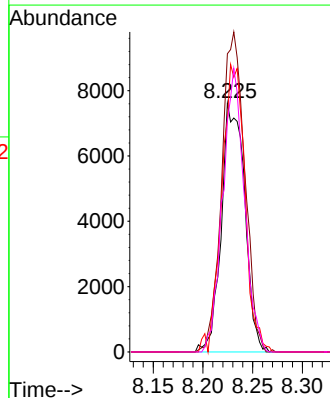
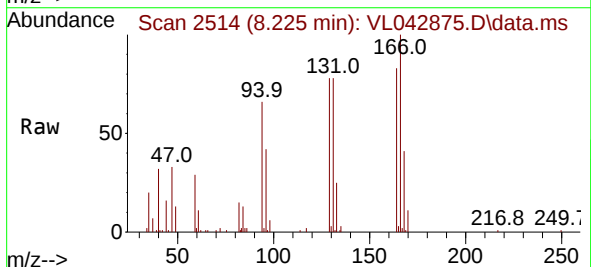
RT: 8.225 min Scan# 2514

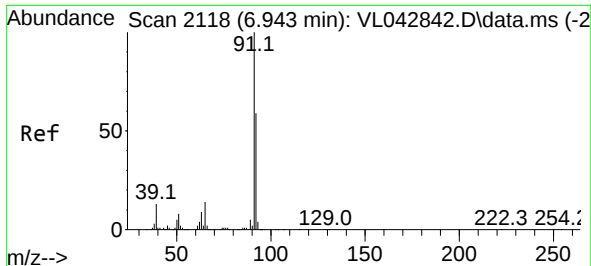
Delta R.T. -0.010 min

Lab File: VL042875.D

Acq: 21 Aug 2025 20:49

Tgt Ion:	164	Resp:	12383
Ion Ratio	Lower	Upper	
164	100		
166	119.9	96.5	144.7
129	93.2	81.8	122.6
131	92.9	77.7	116.5





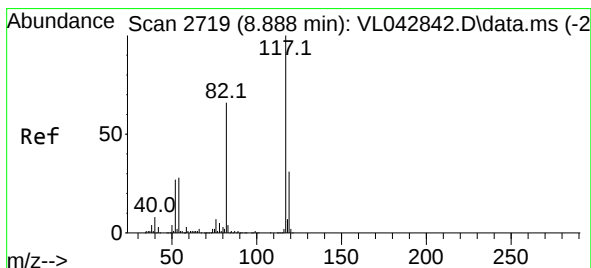
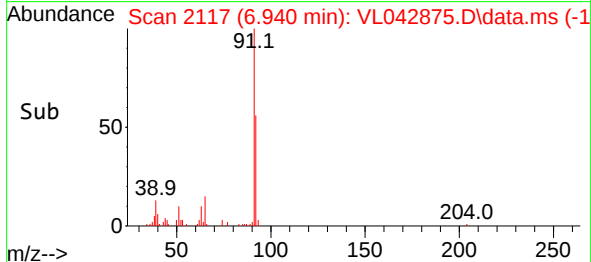
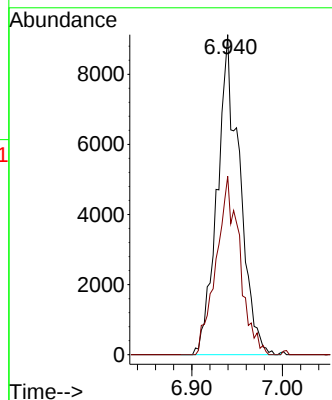
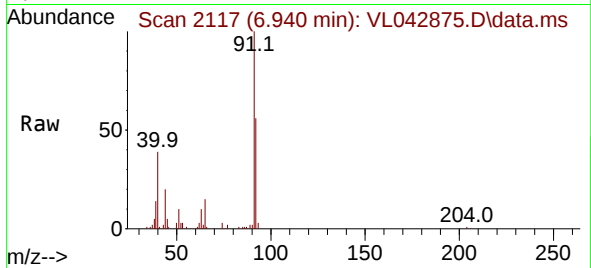
#53
Toluene
Concen: 0.383 ppbv m
RT: 6.940 min Scan# 2118
Delta R.T. -0.003 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 15689
Ion Ratio Lower Upper
91 100
92 58.6 47.8 71.6

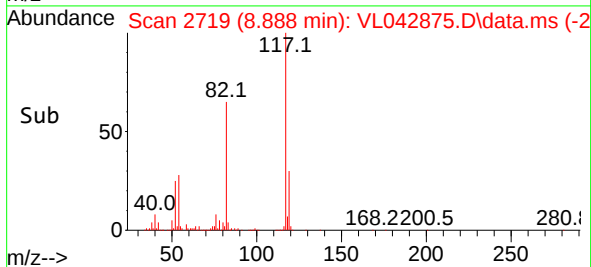
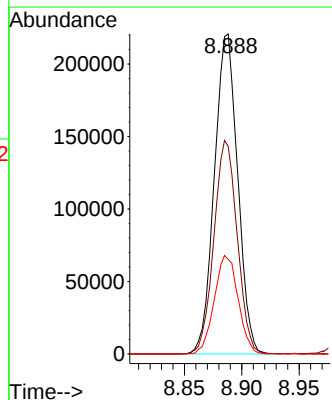
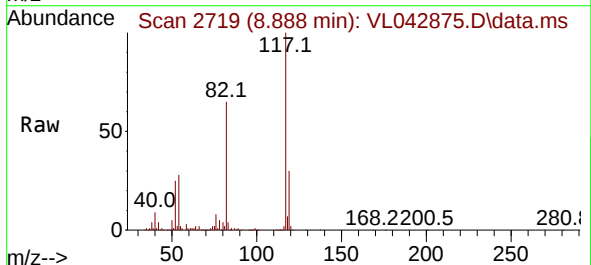
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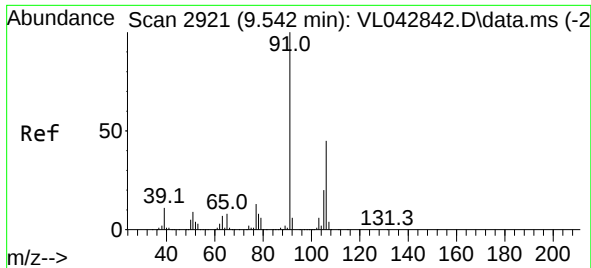
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. 0.000 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

Tgt Ion:117 Resp: 312105
Ion Ratio Lower Upper
117 100
82 66.8 54.6 81.8
119 31.6 25.9 38.9





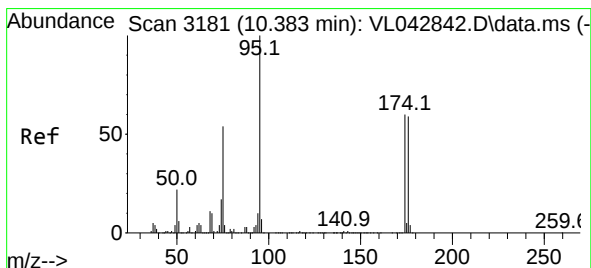
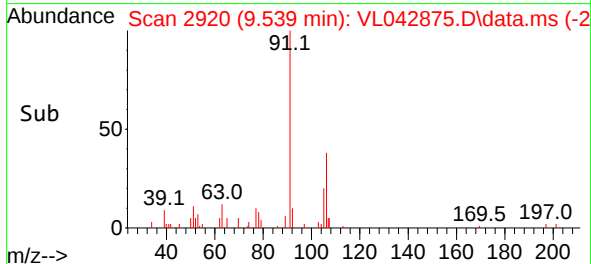
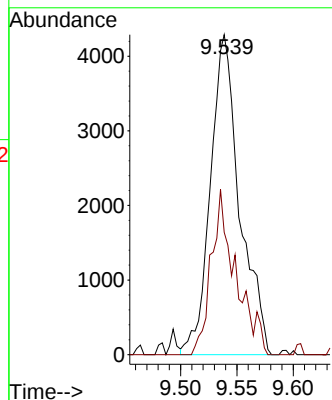
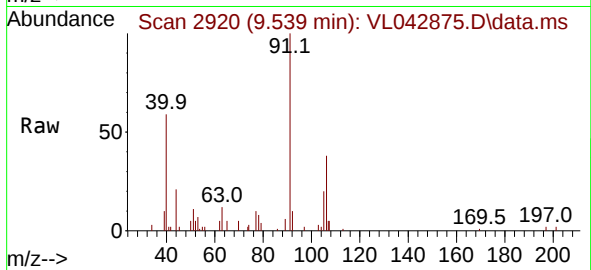
#59
m/p-Xylene
Concen: 0.180 ppbv m
RT: 9.539 min Scan# 2921
Delta R.T. -0.003 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 91 Resp: 7754
Ion Ratio Lower Upper
91 100
106 43.5 0.0 0.0

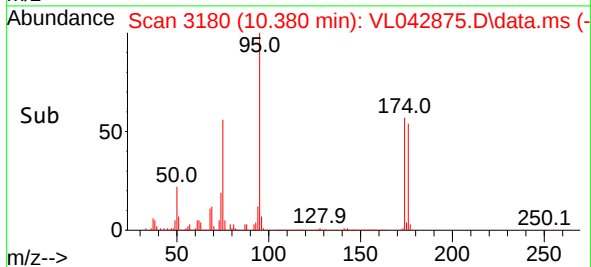
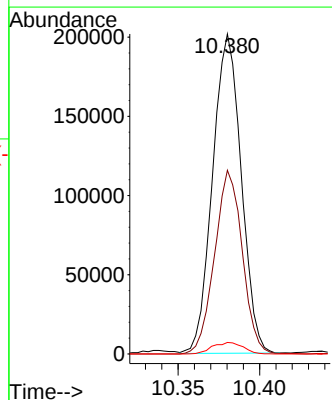
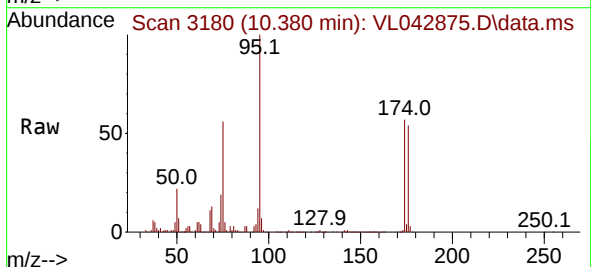
Manual Integrations
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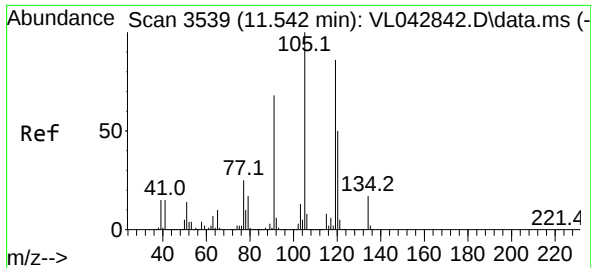
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.497 ppbv
RT: 10.380 min Scan# 3180
Delta R.T. -0.003 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

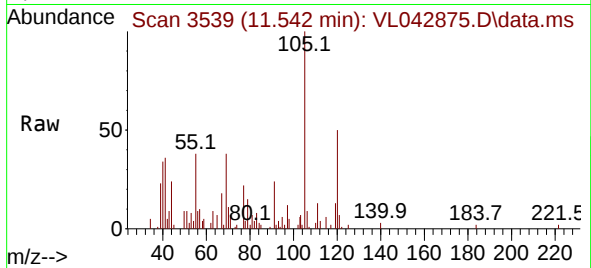
Tgt Ion: 95 Resp: 245698
Ion Ratio Lower Upper
95 100
174 55.7 48.4 72.6
175 3.9 3.8 5.8





#74
1,2,4-Trimethylbenzene
Concen: 0.131 ppbv m
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042875.D
Acq: 21 Aug 2025 20:49

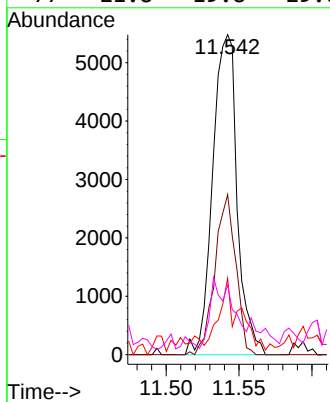
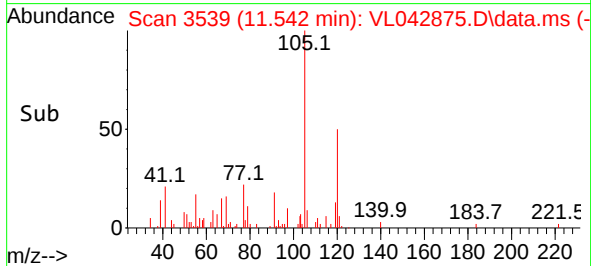
Instrument :
MSVOA_L
ClientSampleId :
SV1



Tgt Ion:	105	Resp:	641
Ion	Ratio	Lower	Upper
105	100		
120	50.0	39.8	59.6
91	23.9	54.2	81.4
77	21.8	19.8	29.6

Manual Integrations
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Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	08/18/25
Project:	271 NASSAU AVE BROOKLYN,NY	Date Received:	08/18/25
Client Sample ID:	IA1	SDG No.:	Q2898
Lab Sample ID:	Q2898-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042873.D	1		08/21/25 19:39	VL082125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
142-82-5	Heptane	0.54	2.21		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
110-82-7	Cyclohexane	0.37	1.27	J	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.32	1.49	J	0.65	2.34	ug/m3
71-43-2	Benzene	0.39	1.25	J	0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.060	0.32		0.11	0.16	ug/m3
108-88-3	Toluene	1.40	5.28		0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.10	0.68		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.27	1.17	J	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.84	3.65	J	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.43	1.87	J	0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.40	6.88		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	4.80	23.6		0.88	2.46	ug/m3
91-20-3	Naphthalene	0.18	0.94		0.050	0.52	ug/m3
110-54-3	Hexane	2.80	9.87		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	129000			2.794		
540-36-3	1,4-Difluorobenzene	377000			3.969		
3114-55-4	Chlorobenzene-d5	321000			8.891		

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042873.D
 Acq On : 21 Aug 2025 19:39
 Operator : SY/MD
 Sample : Q2898-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:27:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:27:23 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.794	49	129333	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.969	114	377000	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	320502	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.387	95	252039	10.486	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.499	85	8428	0.445	ppbv	100
9) Propene	1.489	41	157640m	17.422	ppbv	
10) Heptane	4.995	43	13174m	0.544	ppbv	
11) Trichlorofluoromethane	1.884	101	3813	0.204	ppbv	93
13) Ethanol	1.729	45	1188828	1436.944	ppbv	94
15) Acetone	1.839	43	320481	18.732	ppbv	93
19) Isopropyl Alcohol	1.891	45	181846	17.796	ppbv	97
20) Methylene Chloride	2.065	84	26414	3.686	ppbv	91
25) Ethyl Acetate	2.842	43	111988m	2.705	ppbv	
26) Hexane	2.832	57	54172	2.834	ppbv	96
29) Chloroform	2.858	83	9576	0.351	ppbv	95
30) Cyclohexane	3.875	84	6196m	0.370	ppbv	
34) 2-Butanone	2.564	43	98896	3.885	ppbv	99
35) Carbon Tetrachloride	3.771	117	2435m	0.094	ppbv	
36) Benzene	3.664	78	14101m	0.391	ppbv	
38) Trichloroethene	4.567	130	1048m	0.064	ppbv	
41) Tetrahydrofuran	3.072	42	8122	0.572	ppbv #	85
44) 2,2,4-Trimethylpentane	4.651	57	19482m	0.318	ppbv	
50) 4-Methyl-2-Pentanone	5.787	43	7271m	0.211	ppbv	
52) Tetrachloroethene	8.234	164	1352m	0.104	ppbv	
53) Toluene	6.946	91	61840	1.441	ppbv	99
58) Ethyl Benzene	9.367	91	15105	0.267	ppbv #	87
59) m/p-Xylene	9.539	91	37130	0.838	ppbv #	100
60) o-Xylene	9.976	91	19003	0.426	ppbv	98
61) Styrene	9.879	104	59133	2.830	ppbv	98
64) n-propylbenzene	10.995	120	12540	0.754	ppbv	95
69) p-Isopropyltoluene	11.934	119	40946	0.591	ppbv	96
72) 4-Ethyltoluene	11.131	105	84384	1.561	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.212	105	65235	1.419	ppbv	94
74) 1,2,4-Trimethylbenzene	11.542	105	243738	4.830	ppbv #	60
79) Naphthalene	13.520	128	8314	0.182	ppbv #	92

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

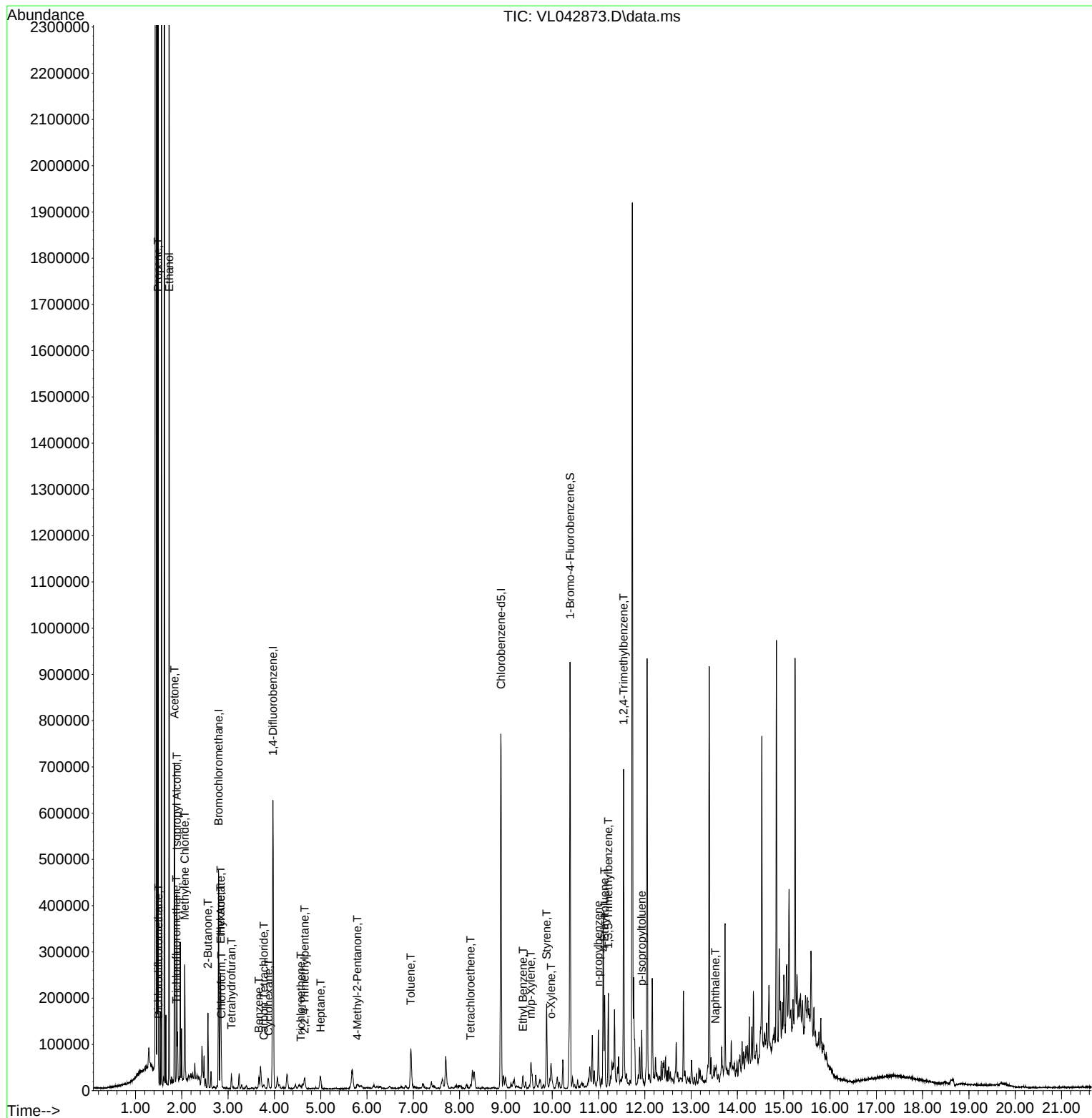
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042873.D
Acq On : 21 Aug 2025 19:39
Operator : SY/MD
Sample : Q2898-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

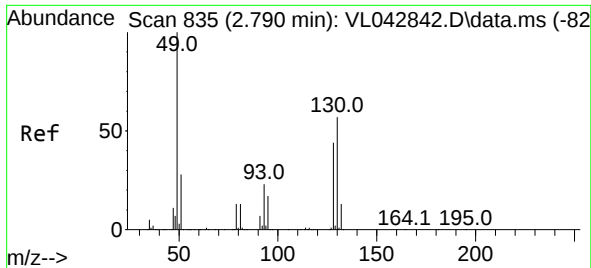
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

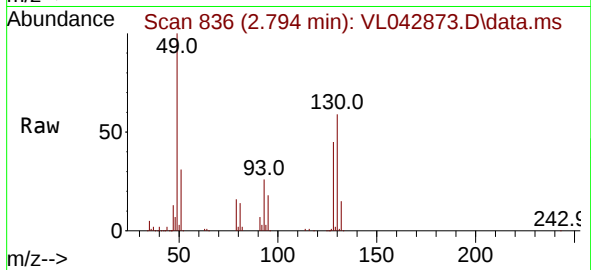
Quant Time: Aug 22 01:27:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.794 min Scan# 835
Delta R.T. 0.004 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

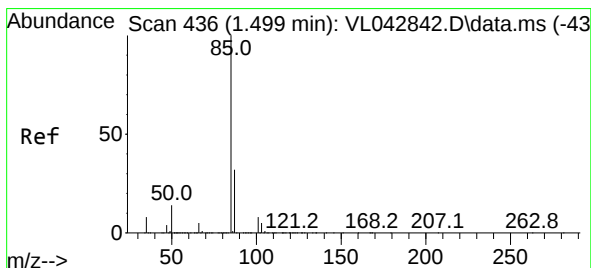
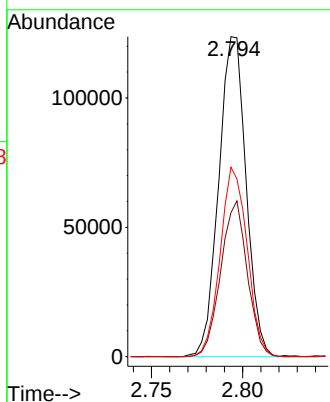
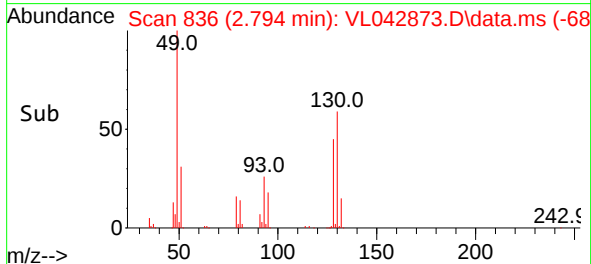
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 49 Resp: 12933
Ion Ratio Lower Upper
49 100
128 47.2 23.7 71.1
130 58.4 30.6 91.6

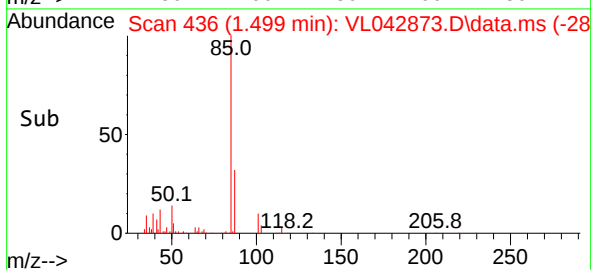
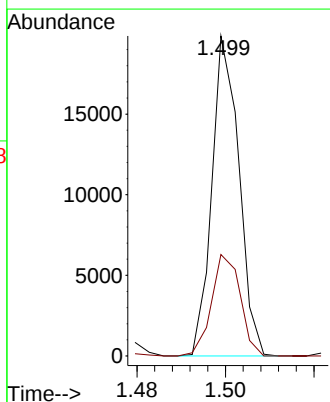
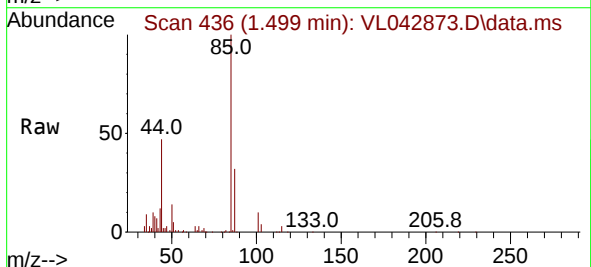
Manual Integrations
APPROVED

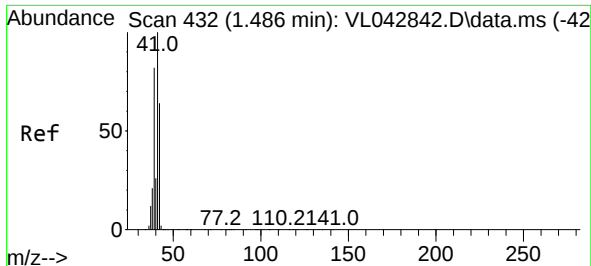
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#2
Dichlorodifluoromethane
Concen: 0.445 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Tgt Ion: 85 Resp: 8428
Ion Ratio Lower Upper
85 100
87 31.7 25.3 37.9





#9

Propene

Concen: 17.422 ppbv m

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042873.D

Acq: 21 Aug 2025 19:39

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 157640

Ion Ratio Lower Upper

41 100

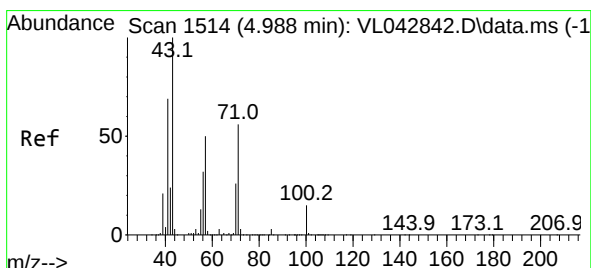
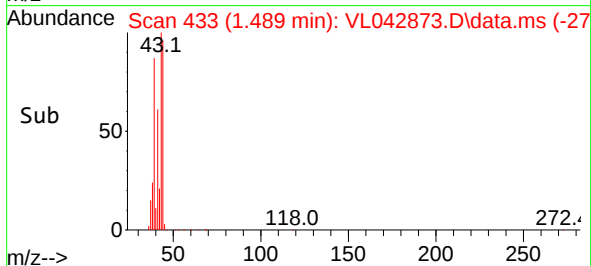
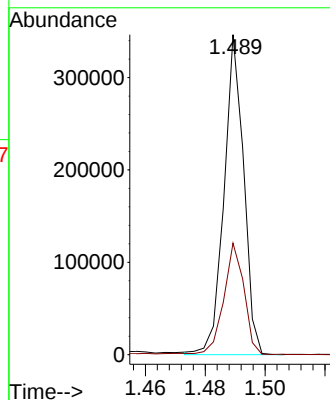
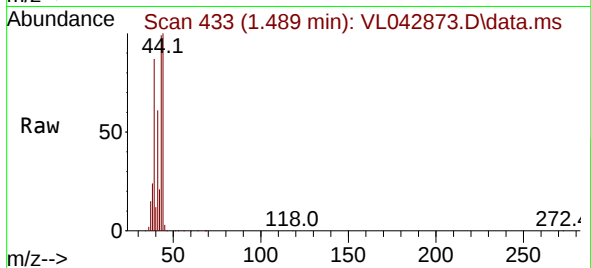
42 215.0 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025

Supervised By :Semsettin Yesilyurt 08/25/2025



#10

Heptane

Concen: 0.544 ppbv m

RT: 4.995 min Scan# 1516

Delta R.T. 0.007 min

Lab File: VL042873.D

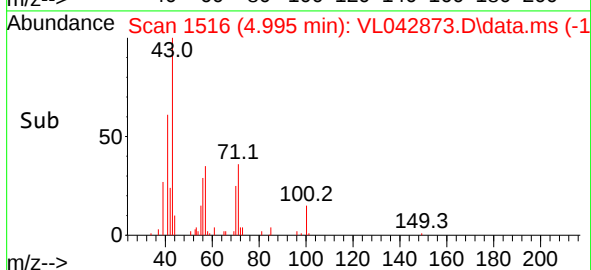
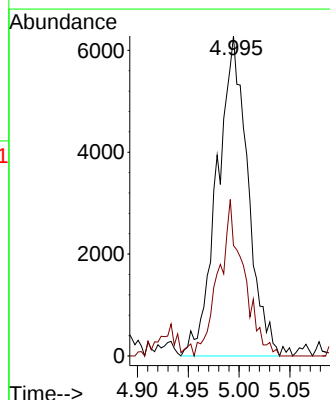
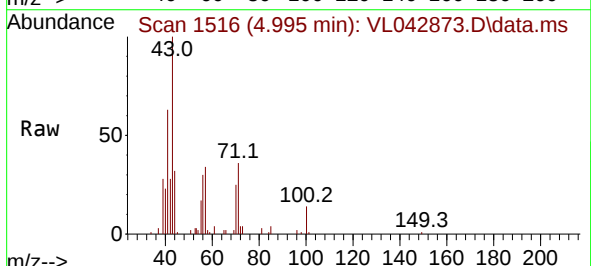
Acq: 21 Aug 2025 19:39

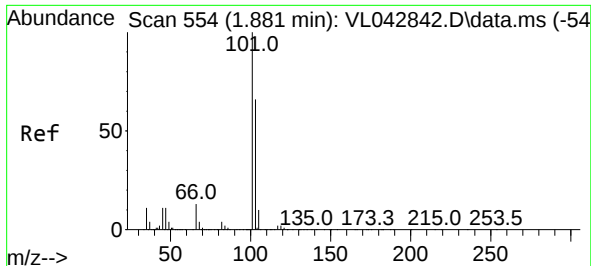
Tgt Ion: 43 Resp: 13174

Ion Ratio Lower Upper

43 100

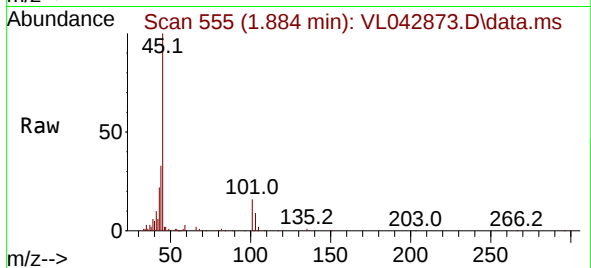
57 40.5 41.4 62.0





#11
Trichlorofluoromethane
Concen: 0.204 ppbv
RT: 1.884 min Scan# 507
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

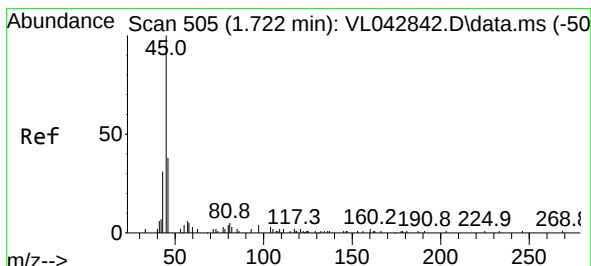
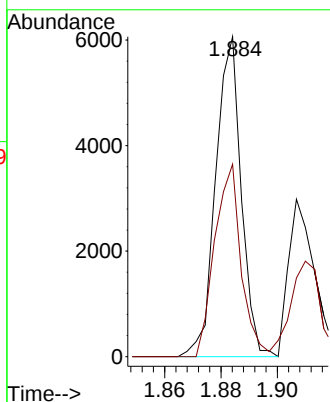
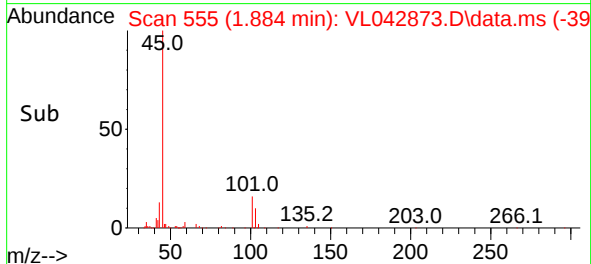
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:101 Resp: 381
Ion Ratio Lower Upper
101 100
103 60.1 52.5 78.7

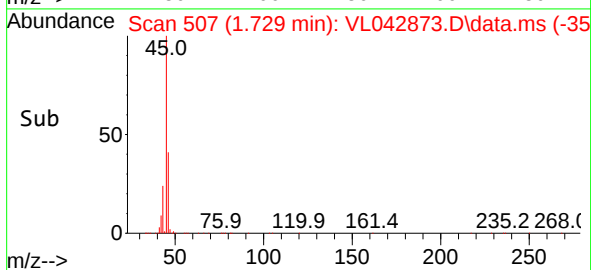
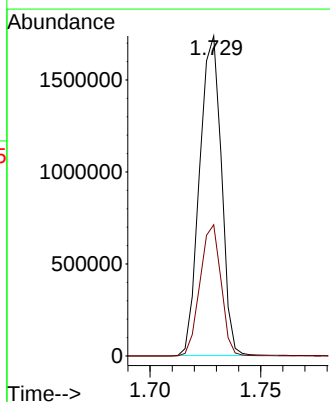
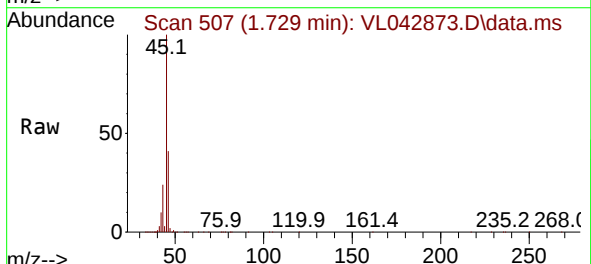
Manual Integrations
APPROVED

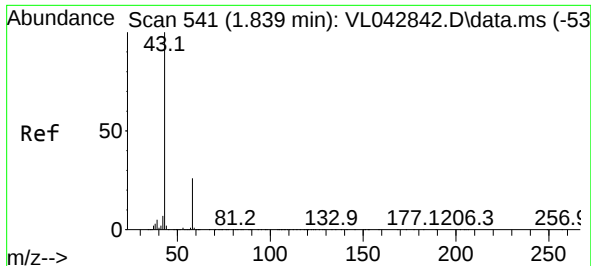
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#13
Ethanol
Concen: 1436.944 ppbv
RT: 1.729 min Scan# 507
Delta R.T. 0.007 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

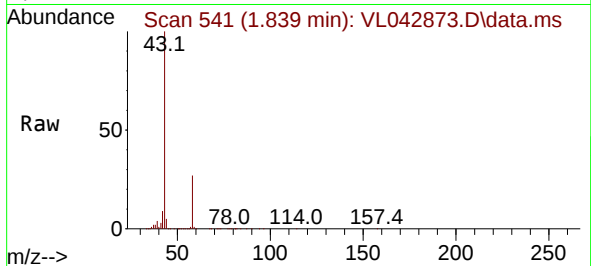
Tgt Ion: 45 Resp: 1188828
Ion Ratio Lower Upper
45 100
46 39.8 17.5 69.9





#15
Acetone
Concen: 18.732 ppbv
RT: 1.839 min Scan# 541
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

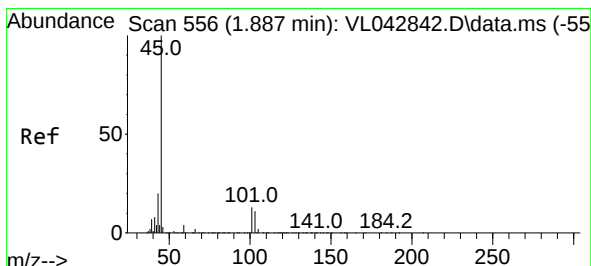
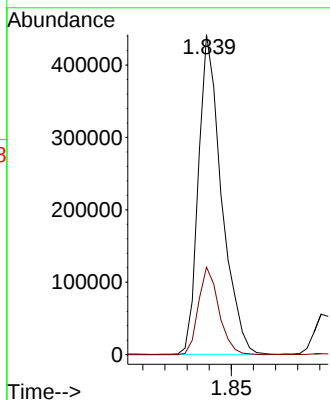
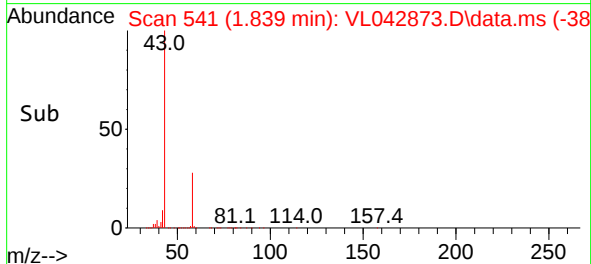
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 32048
Ion Ratio Lower Upper
43 100
58 24.3 22.4 33.6

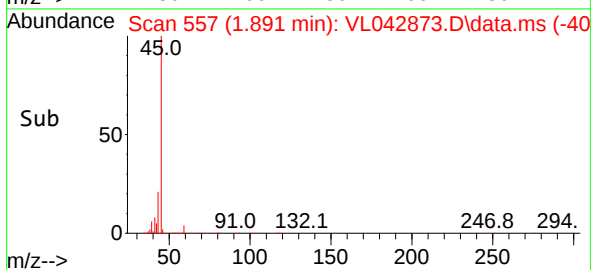
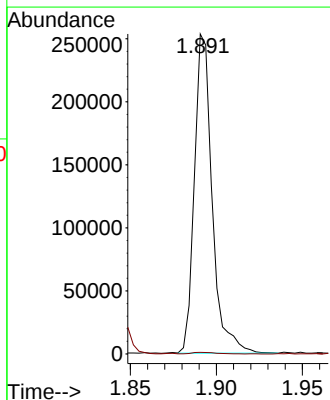
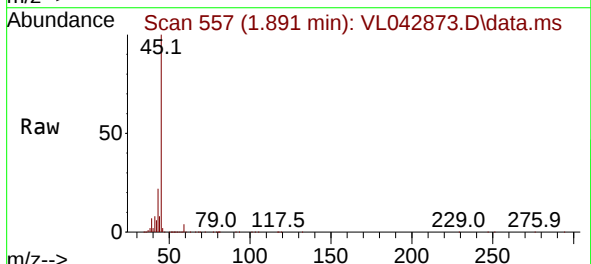
Manual Integrations
APPROVED

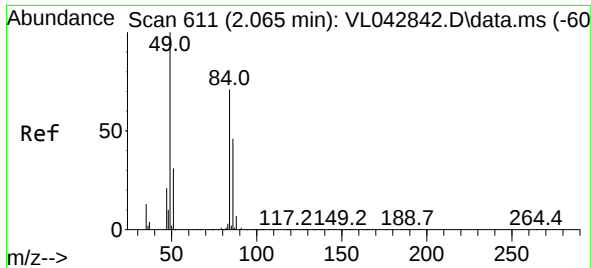
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#19
Isopropyl Alcohol
Concen: 17.796 ppbv
RT: 1.891 min Scan# 557
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

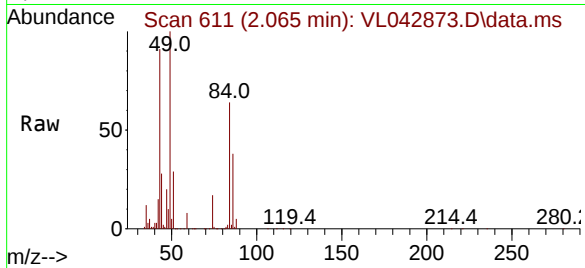
Tgt Ion: 45 Resp: 181846
Ion Ratio Lower Upper
45 100
58 42.9 32.7 49.1





#20
Methylene Chloride
Concen: 3.686 ppbv
RT: 2.065 min Scan# 611
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

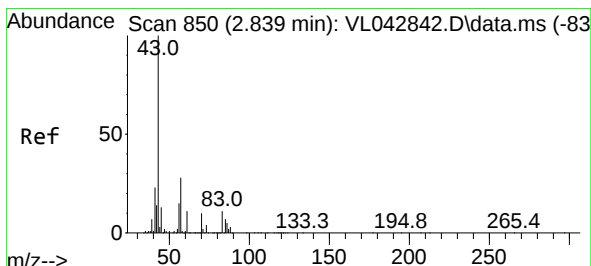
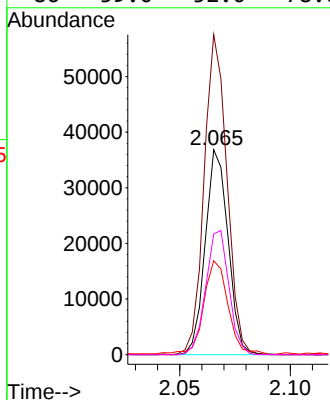
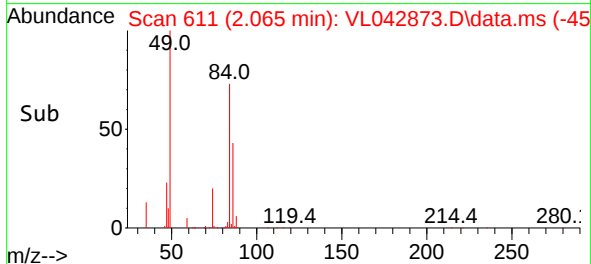
Instrument :
MSVOA_L
ClientSampleId :
IA1



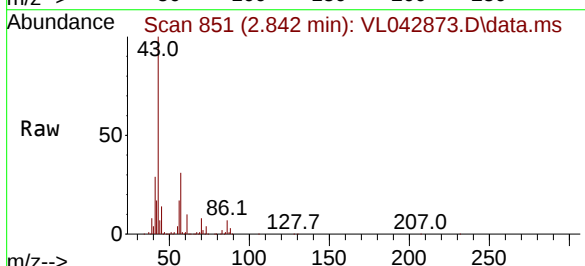
Tgt Ion: 84 Resp: 26414
Ion Ratio Lower Upper
84 100
49 156.1 112.3 168.5
51 45.4 36.0 54.0
86 59.0 52.0 78.0

Manual Integrations
APPROVED

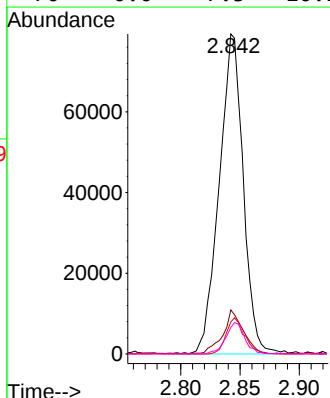
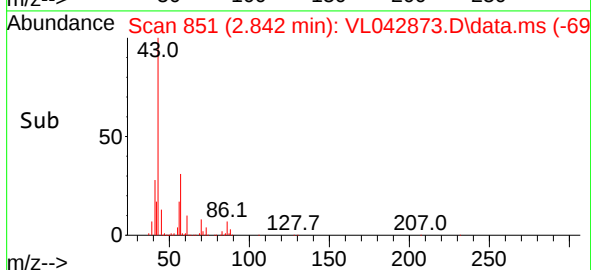
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

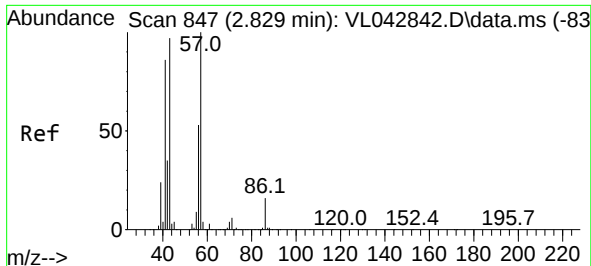


#25
Ethyl Acetate
Concen: 2.705 ppbv m
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39



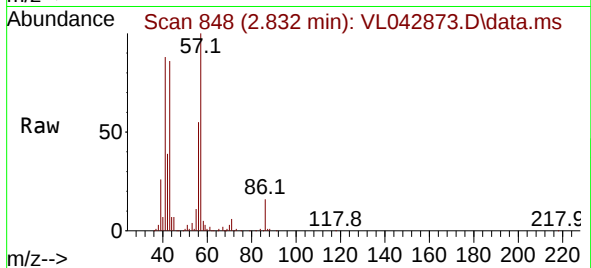
Tgt Ion: 43 Resp: 111988
Ion Ratio Lower Upper
43 100
45 0.0 8.1 12.1#
61 0.0 7.4 11.2#
70 0.0 7.3 10.9#





#26
Hexane
Concen: 2.834 ppbv
RT: 2.832 min Scan# 847
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

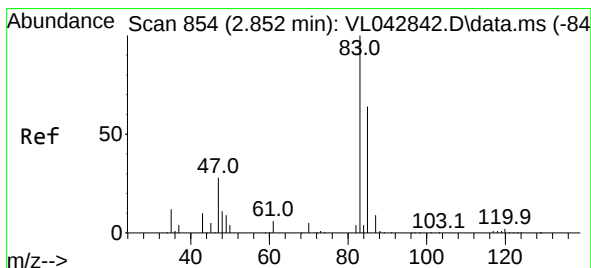
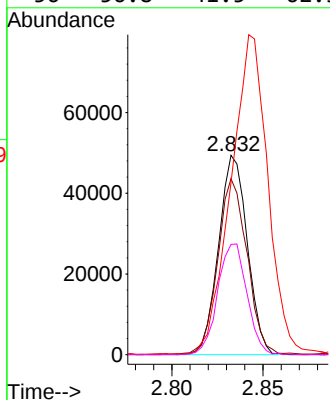
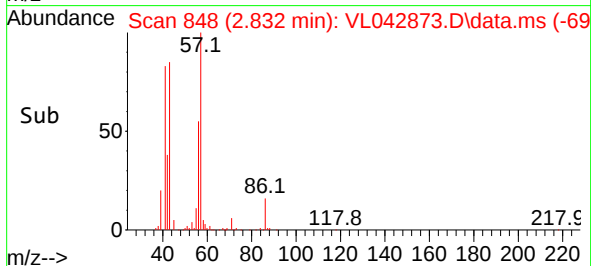
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 54172
Ion Ratio Lower Upper
57 100
41 91.0 68.6 103.0
43 206.6 168.5 252.7
56 56.8 41.5 62.3

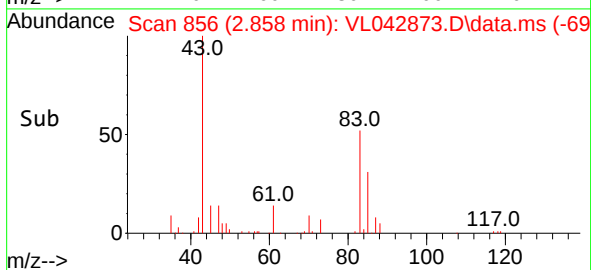
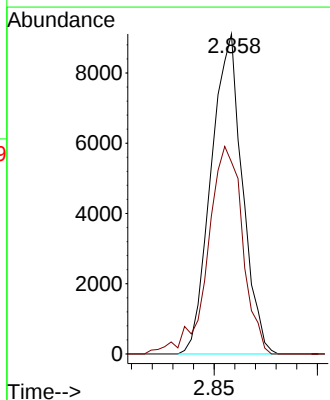
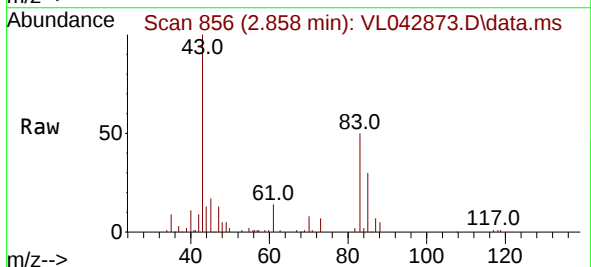
Manual Integrations
APPROVED

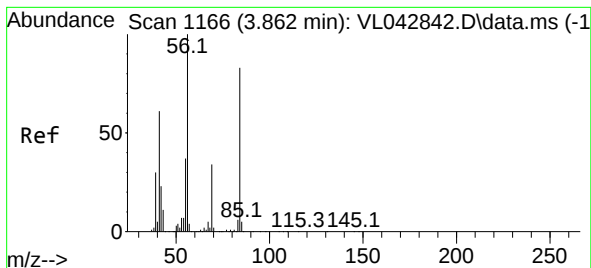
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#29
Chloroform
Concen: 0.351 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.007 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

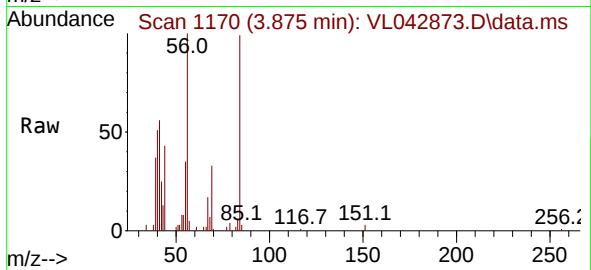
Tgt Ion: 83 Resp: 9576
Ion Ratio Lower Upper
83 100
85 59.9 51.1 76.7





#30
Cyclohexane
Concen: 0.370 ppbv m
RT: 3.875 min Scan# 1166
Delta R.T. 0.013 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

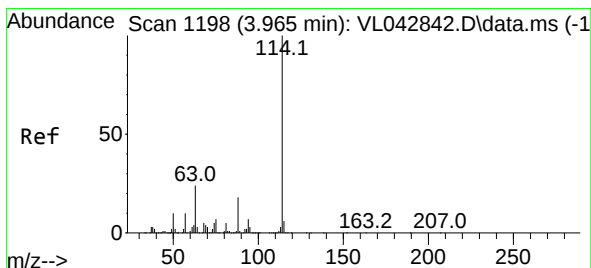
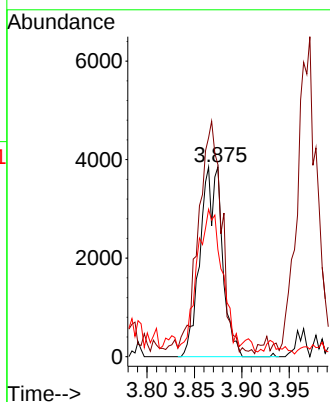
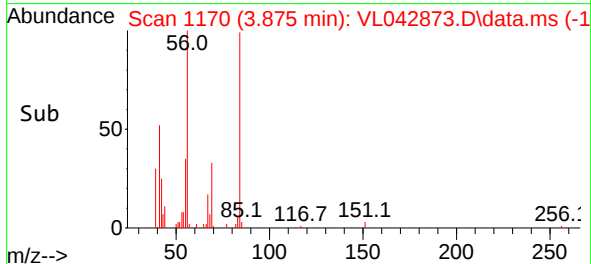
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 84 Resp: 6190
Ion Ratio Lower Upper
84 100
56 139.3 98.8 148.2
41 90.2 61.3 91.9

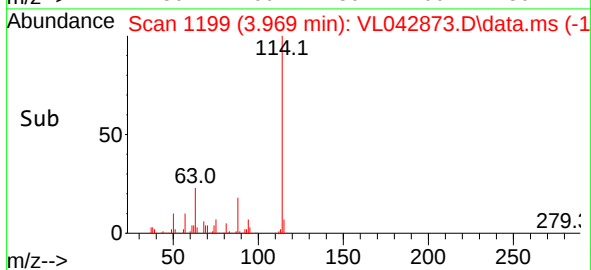
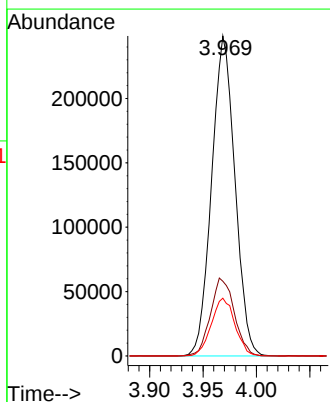
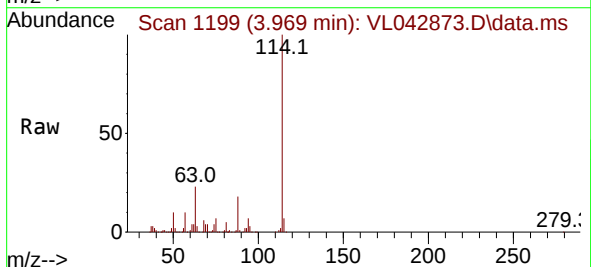
Manual Integrations
APPROVED

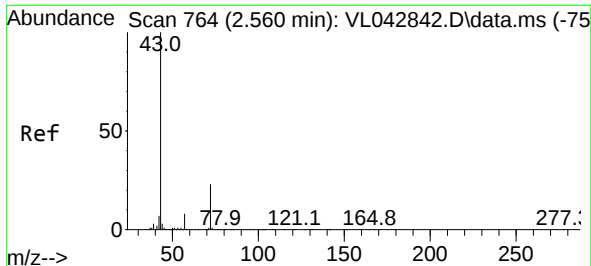
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.969 min Scan# 1199
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

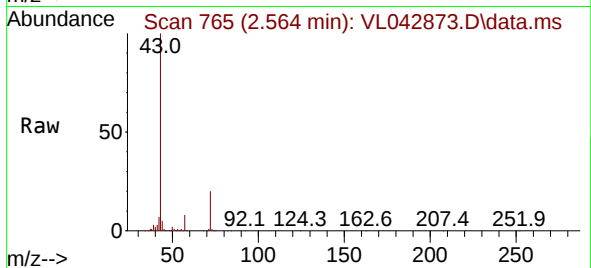
Tgt Ion:114 Resp: 377000
Ion Ratio Lower Upper
114 100
63 24.9 19.7 29.5
88 18.3 14.4 21.6





#34
2-Butanone
Concen: 3.885 ppbv
RT: 2.564 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

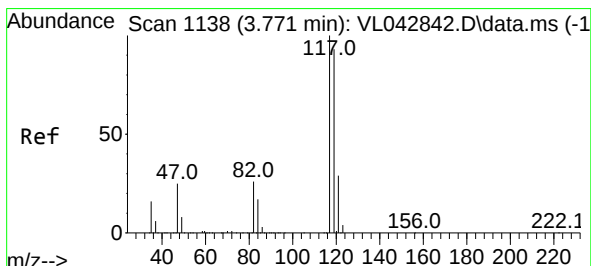
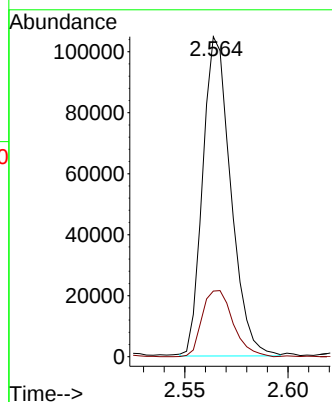
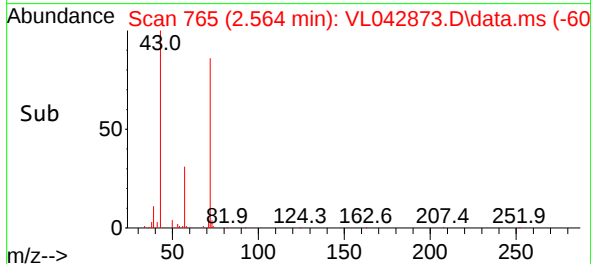
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 98890
Ion Ratio Lower Upper
43 100
72 23.0 18.6 28.0

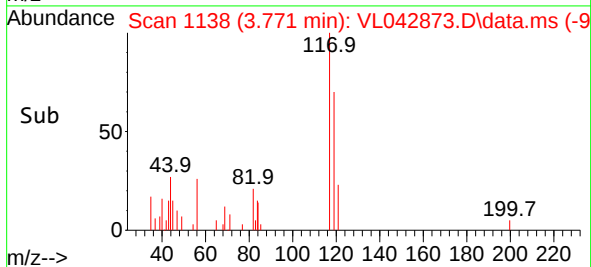
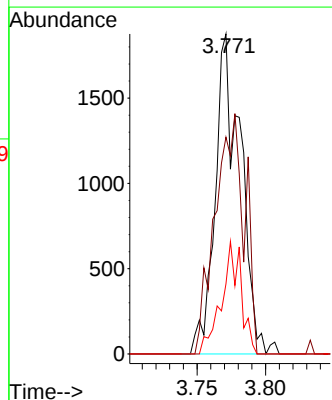
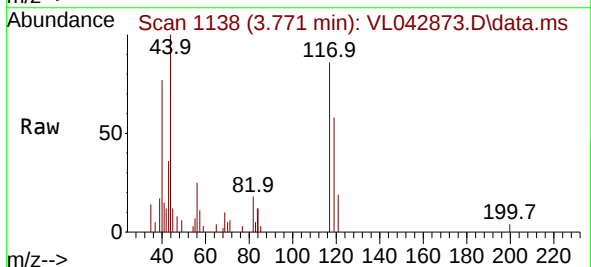
Manual Integrations
APPROVED

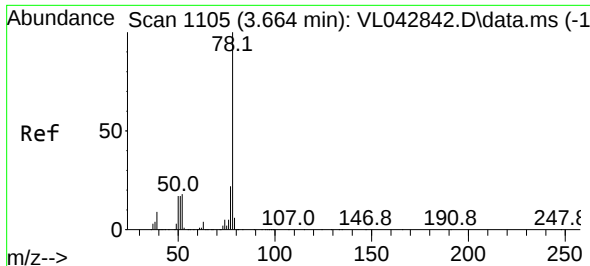
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#35
Carbon Tetrachloride
Concen: 0.094 ppbv m
RT: 3.771 min Scan# 1138
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

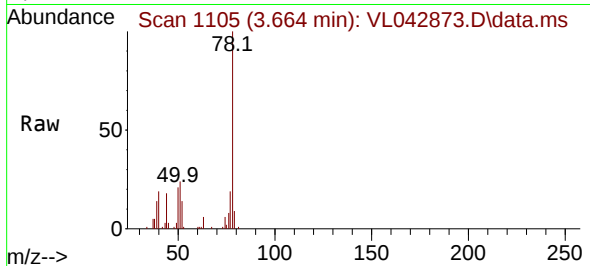
Tgt Ion:117 Resp: 2435
Ion Ratio Lower Upper
117 100
119 67.8 74.7 112.1#
121 21.9 23.2 34.8#





#36
Benzene
Concen: 0.391 ppbv m
RT: 3.664 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

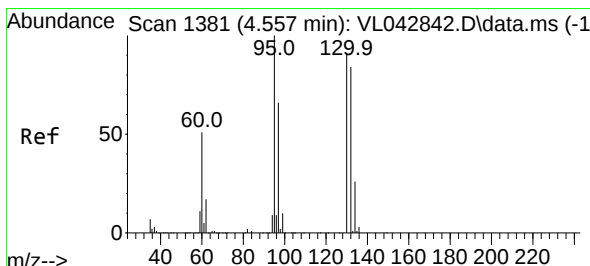
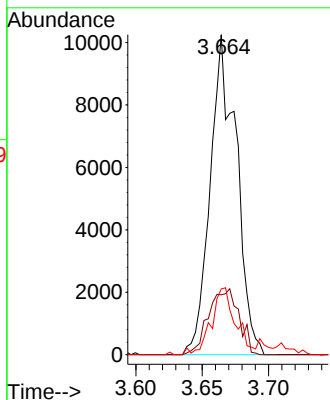
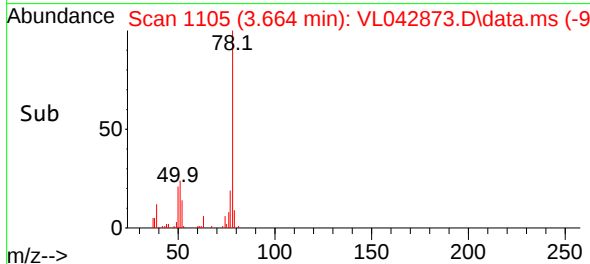
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 78 Resp: 1410
Ion Ratio Lower Upper
78 100
77 18.7 17.7 26.5
50 20.6 13.9 20.9

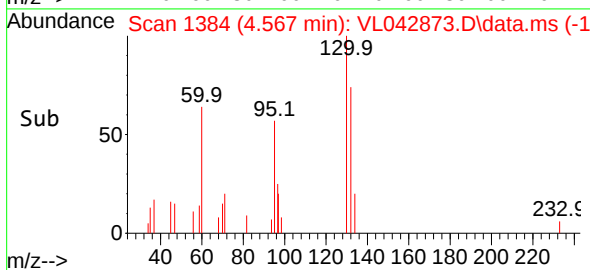
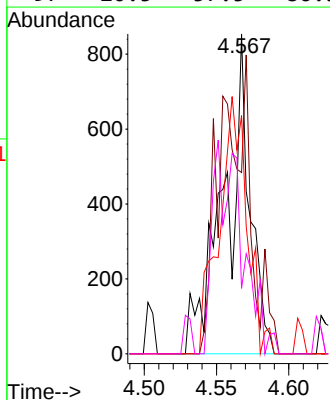
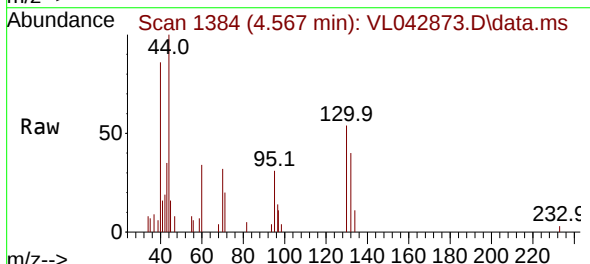
Manual Integrations
APPROVED

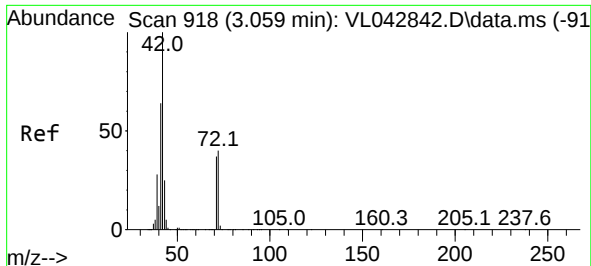
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#38
Trichloroethene
Concen: 0.064 ppbv m
RT: 4.567 min Scan# 1384
Delta R.T. 0.010 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

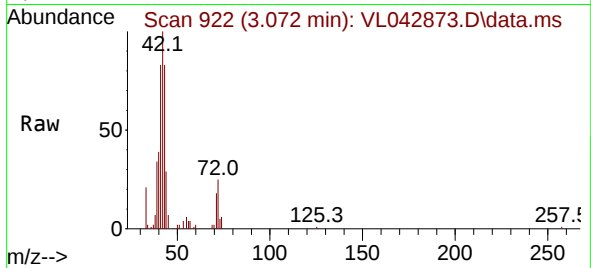
Tgt Ion:130 Resp: 1048
Ion Ratio Lower Upper
130 100
95 56.7 87.6 131.4#
132 74.5 73.8 110.8
97 20.5 57.5 86.3#





#41
Tetrahydrofuran
Concen: 0.572 ppbv
RT: 3.072 min Scan# 918
Delta R.T. 0.013 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

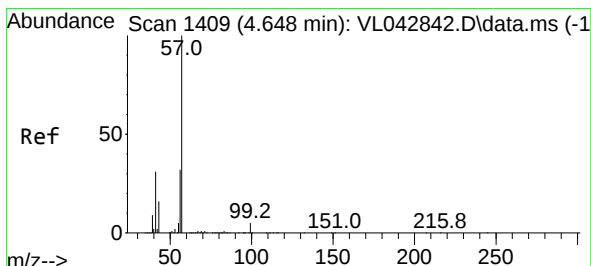
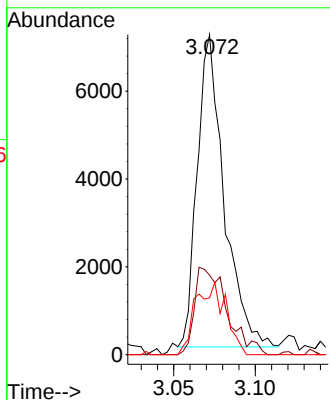
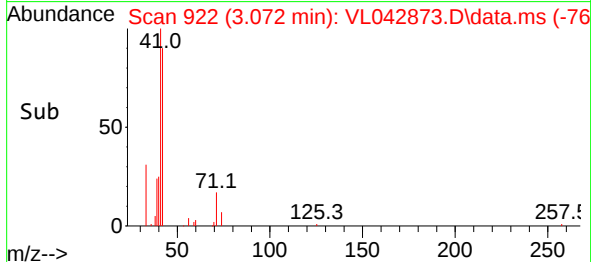
Instrument :
MSVOA_L
ClientSampleId :
IA1



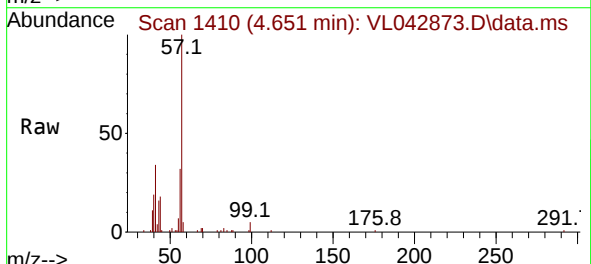
Tgt Ion: 42 Resp: 812
Ion Ratio Lower Upper
42 100
72 33.9 32.6 48.8
71 26.1 30.0 45.0

Manual Integrations
APPROVED

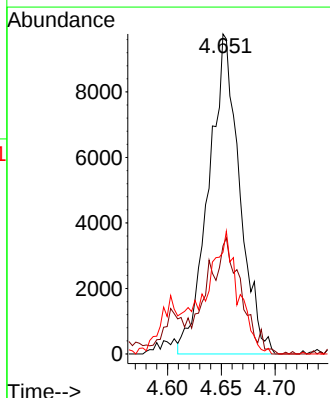
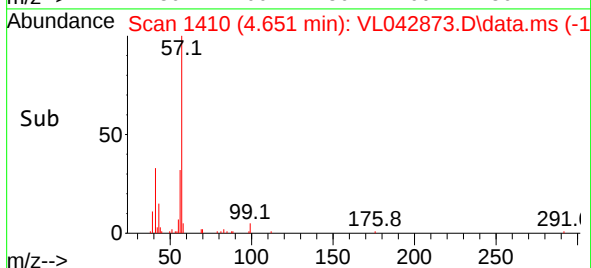
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

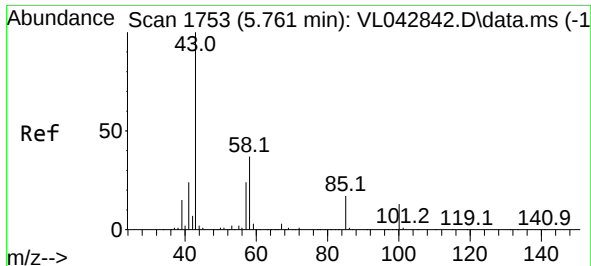


#44
2,2,4-Trimethylpentane
Concen: 0.318 ppbv m
RT: 4.651 min Scan# 1410
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39



Tgt Ion: 57 Resp: 19482
Ion Ratio Lower Upper
57 100
41 49.5 24.8 37.2#
56 52.6 25.5 38.3#





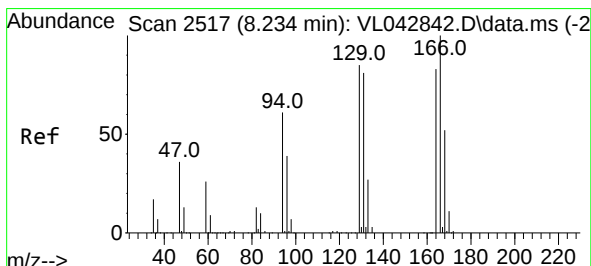
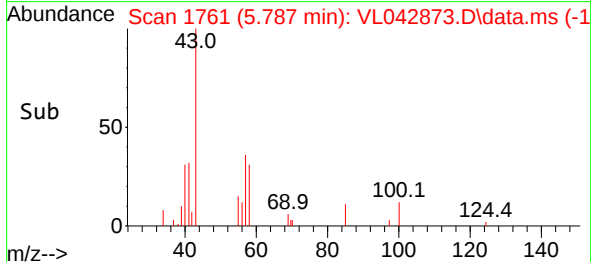
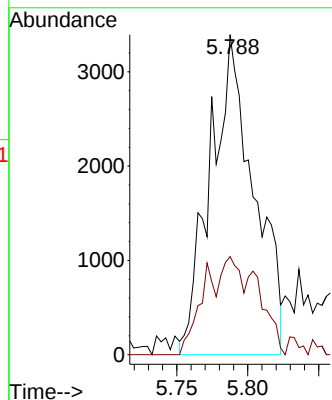
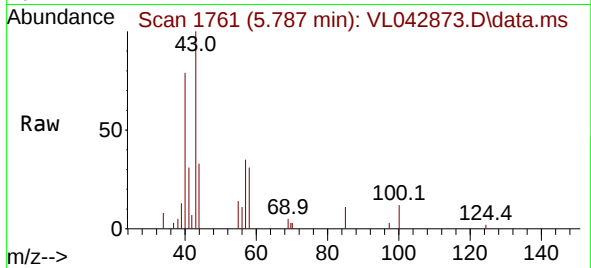
#50
4-Methyl-2-Pentanone
Concen: 0.211 ppbv m
RT: 5.787 min Scan# 1753
Delta R.T. 0.026 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 43 Resp: 727
Ion Ratio Lower Upper
43 100
58 0.0 29.8 44.8

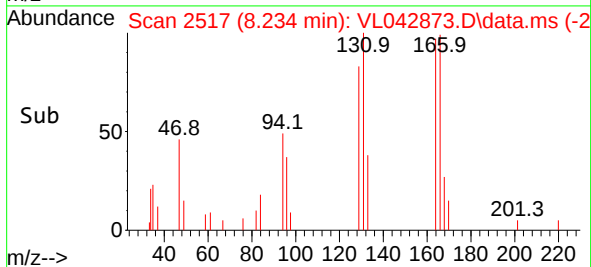
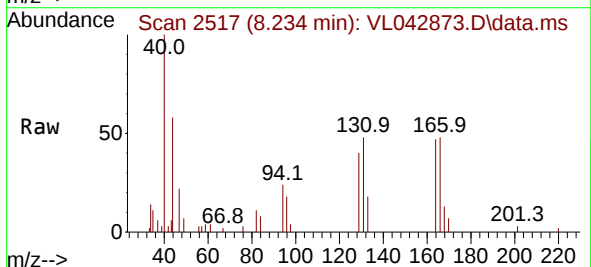
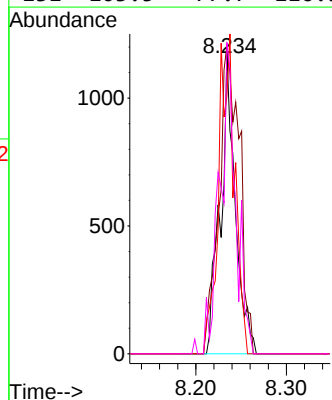
Manual Integrations
APPROVED

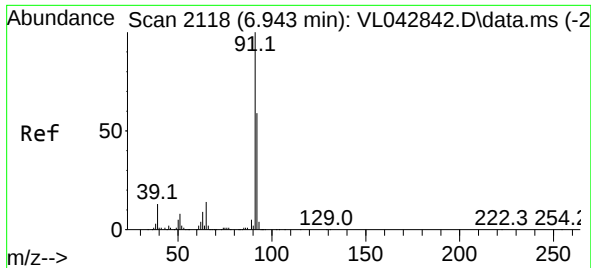
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#52
Tetrachloroethene
Concen: 0.104 ppbv m
RT: 8.234 min Scan# 2517
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Tgt Ion:164 Resp: 1352
Ion Ratio Lower Upper
164 100
166 102.7 96.5 144.7
129 85.7 81.8 122.6
131 103.5 77.7 116.5





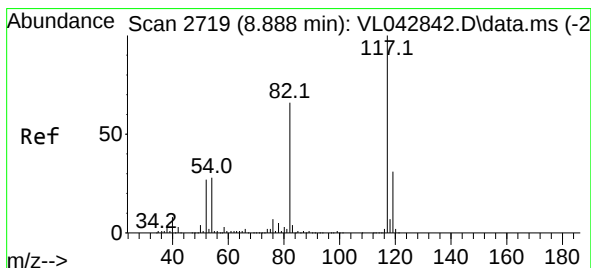
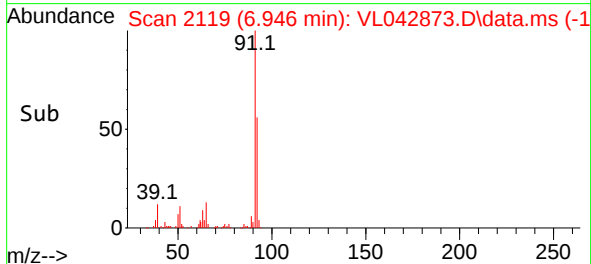
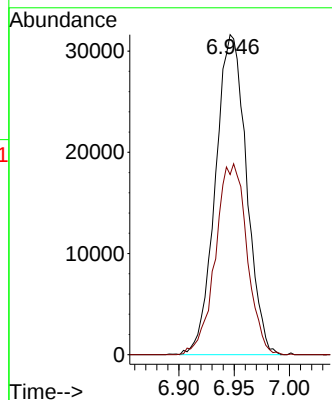
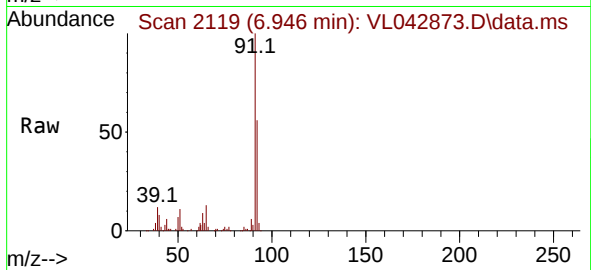
#53
Toluene
Concen: 1.441 ppbv
RT: 6.946 min Scan# 2118
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 61840
Ion Ratio Lower Upper
91 100
92 60.5 47.8 71.6

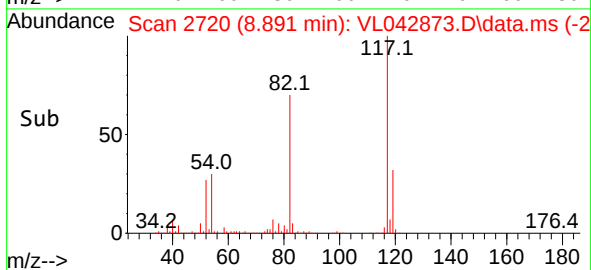
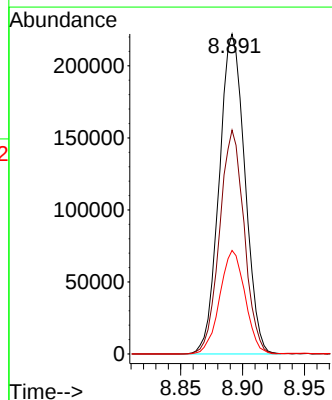
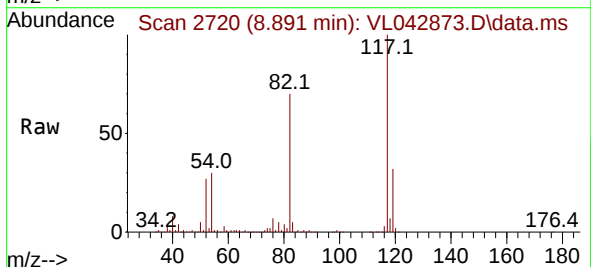
Manual Integrations
APPROVED

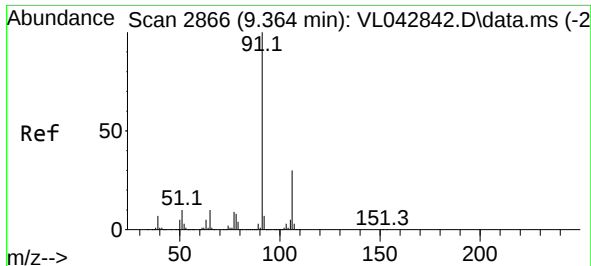
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Tgt Ion:117 Resp: 320502
Ion Ratio Lower Upper
117 100
82 67.1 54.6 81.8
119 32.2 25.9 38.9





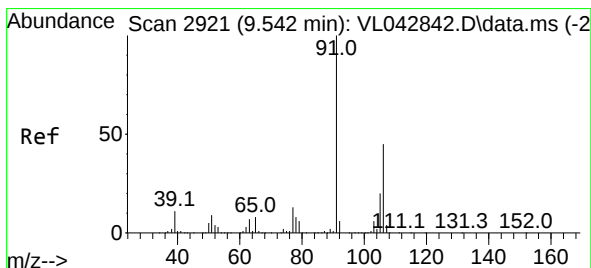
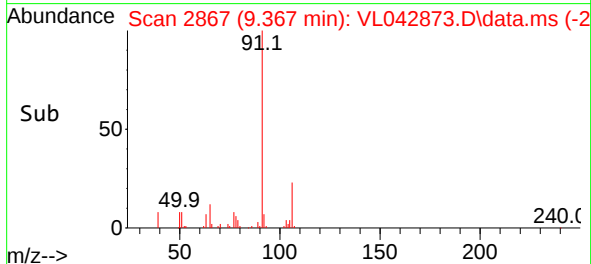
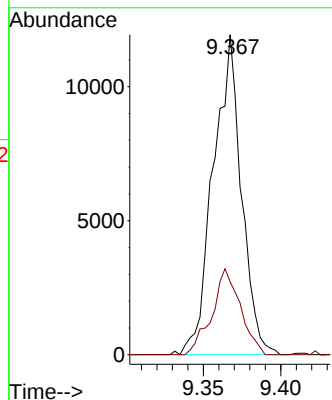
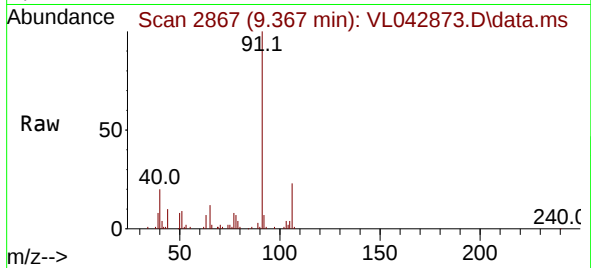
#58
Ethyl Benzene
Concen: 0.267 ppbv
RT: 9.367 min Scan# 2867
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion: 91 Resp: 1510
Ion Ratio Lower Upper
91 100
106 22.8 23.9 35.9

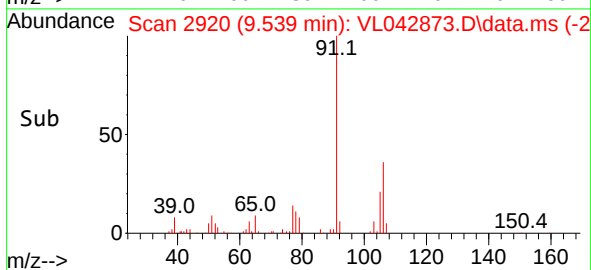
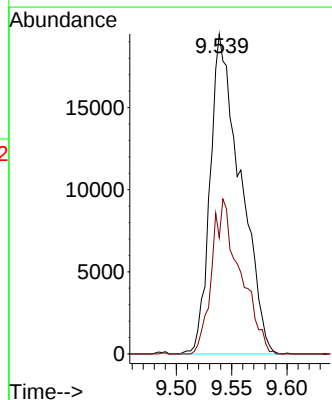
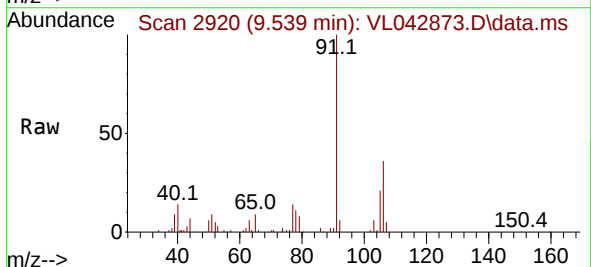
Manual Integrations
APPROVED

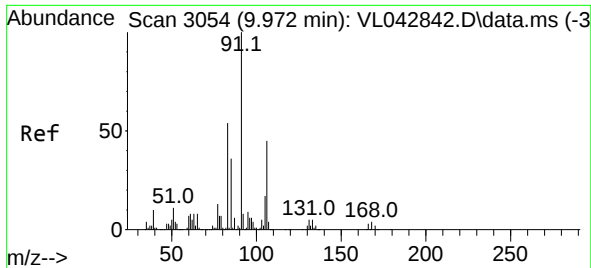
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#59
m/p-Xylene
Concen: 0.838 ppbv
RT: 9.539 min Scan# 2920
Delta R.T. -0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

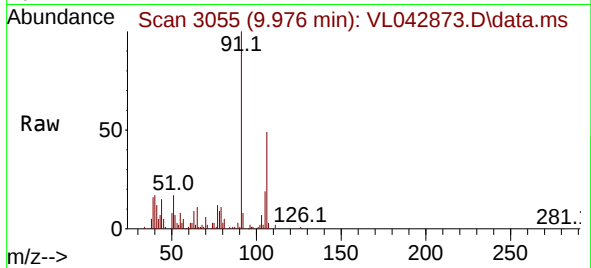
Tgt Ion: 91 Resp: 37130
Ion Ratio Lower Upper
91 100
106 45.5 0.0 0.0





#60
o-Xylene
Concen: 0.426 ppbv
RT: 9.976 min Scan# 3055
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

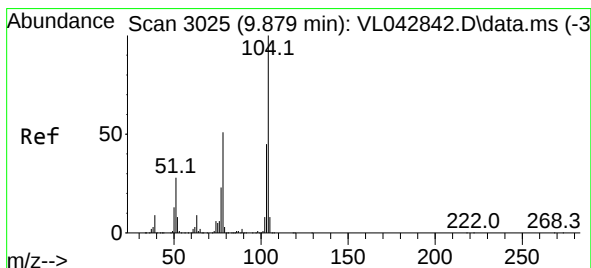
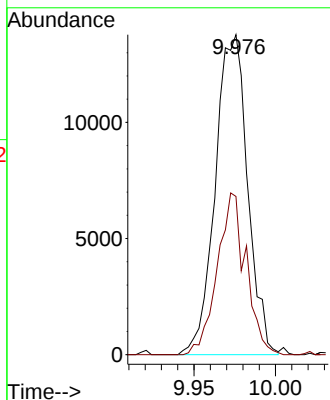
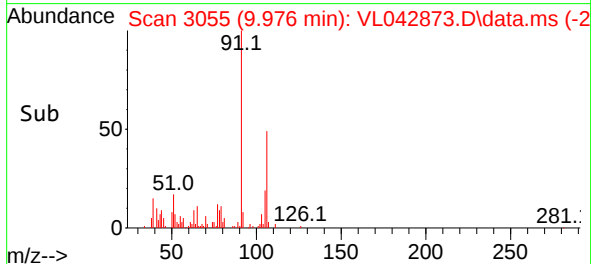
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 91 Resp: 1900
Ion Ratio Lower Upper
91 100
106 44.9 21.8 65.4

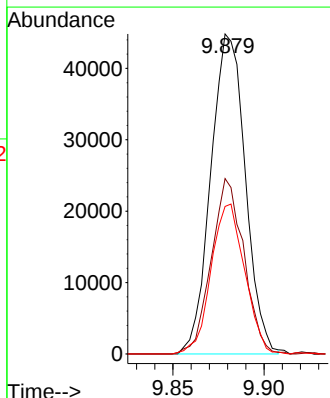
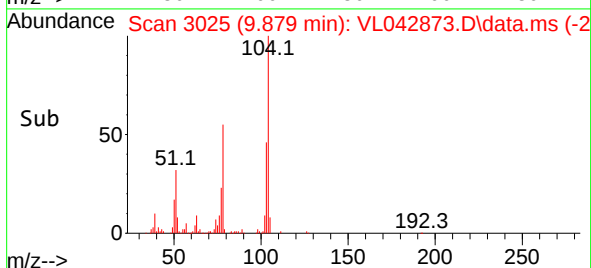
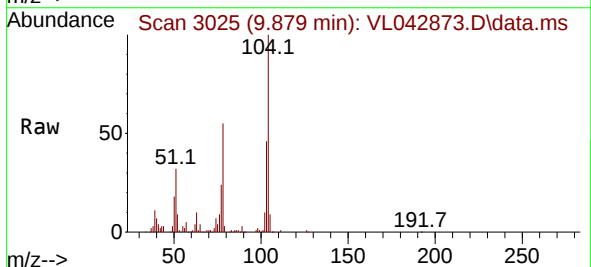
Manual Integrations
APPROVED

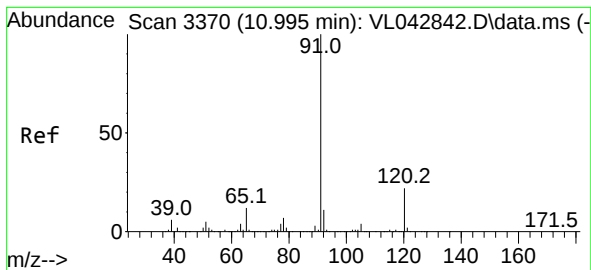
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#61
Styrene
Concen: 2.830 ppbv
RT: 9.879 min Scan# 3025
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

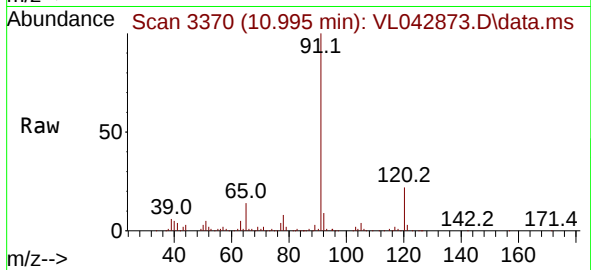
Tgt Ion:104 Resp: 59133
Ion Ratio Lower Upper
104 100
78 51.8 40.6 61.0
103 45.7 37.7 56.5





#64
n-propylbenzene
Concen: 0.754 ppbv
RT: 10.995 min Scan# 3182
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

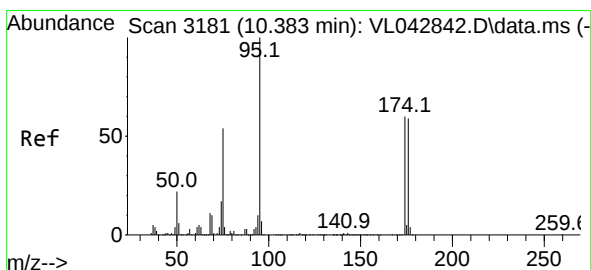
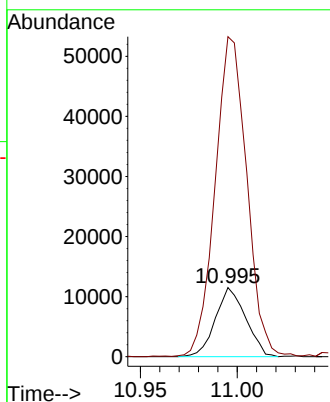
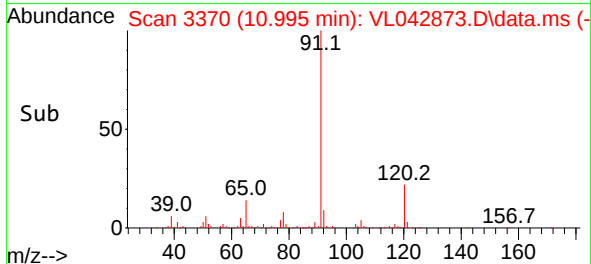
Instrument :
MSVOA_L
ClientSampleId :
IA1



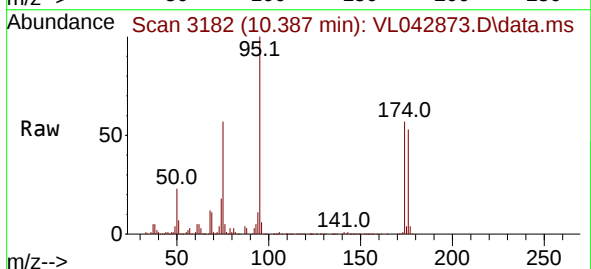
Tgt Ion:120 Resp: 12540
Ion Ratio Lower Upper
120 100
91 483.8 375.8 563.6

Manual Integrations
APPROVED

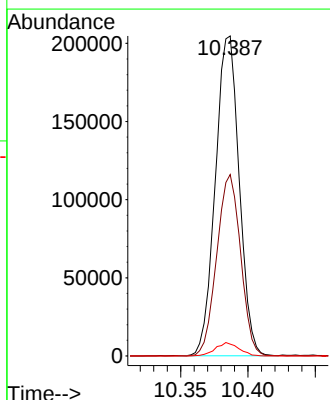
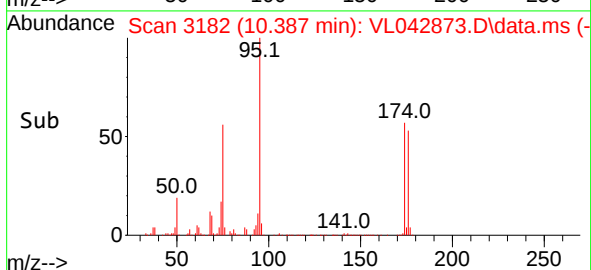
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

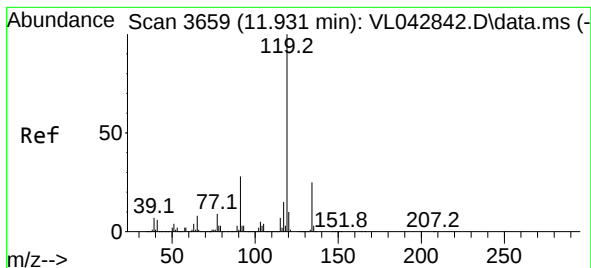


#68
1-Bromo-4-Fluorobenzene
Concen: 10.486 ppbv
RT: 10.387 min Scan# 3182
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39



Tgt Ion: 95 Resp: 252039
Ion Ratio Lower Upper
95 100
174 56.7 48.4 72.6
175 4.1 3.8 5.8





#69

p-Isopropyltoluene

Concen: 0.591 ppbv

RT: 11.934 min Scan# 3659

Delta R.T. 0.003 min

Lab File: VL042873.D

Acq: 21 Aug 2025 19:39

Instrument :

MSVOA_L

ClientSampleId :

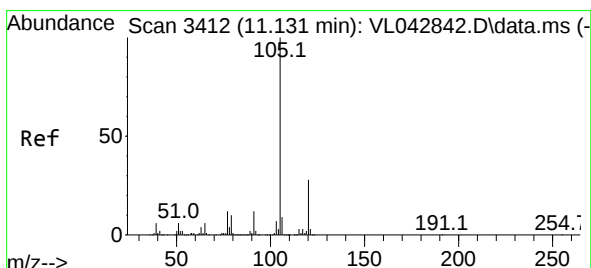
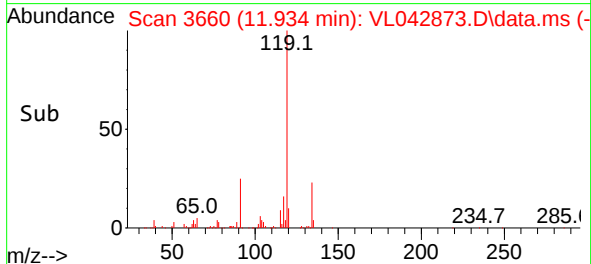
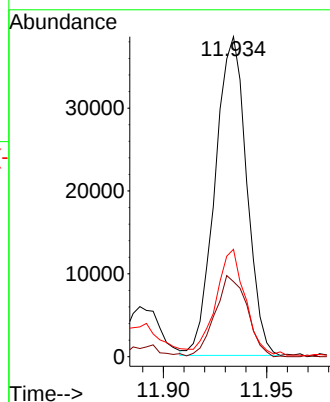
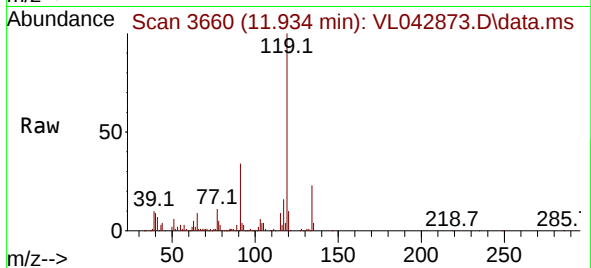
IA1

Tgt Ion:	119	Resp:	40940
Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	30.8
91	32.4	22.6	34.0

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#72

4-Ethyltoluene

Concen: 1.561 ppbv

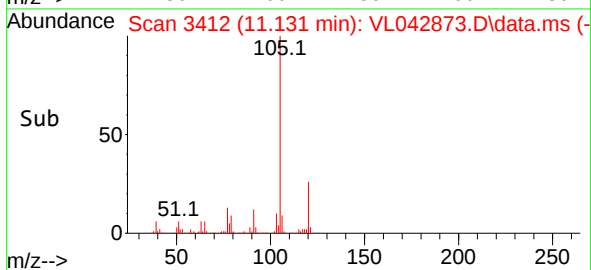
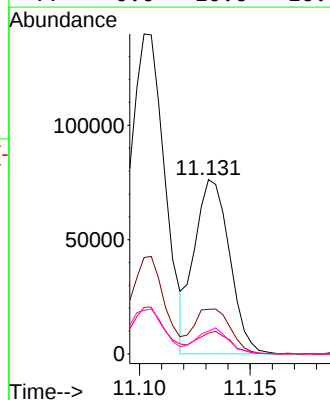
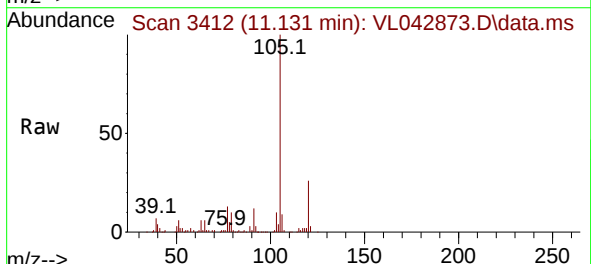
RT: 11.131 min Scan# 3412

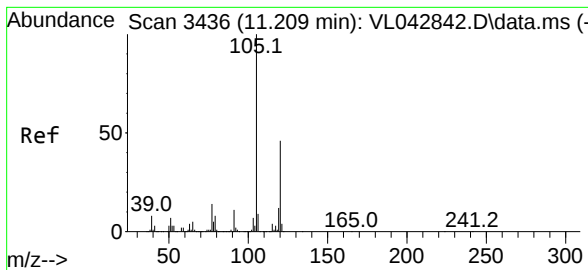
Delta R.T. 0.000 min

Lab File: VL042873.D

Acq: 21 Aug 2025 19:39

Tgt Ion:	105	Resp:	84384
Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.4	35.2#
91	0.0	9.8	14.6#
77	0.0	10.6	16.0#





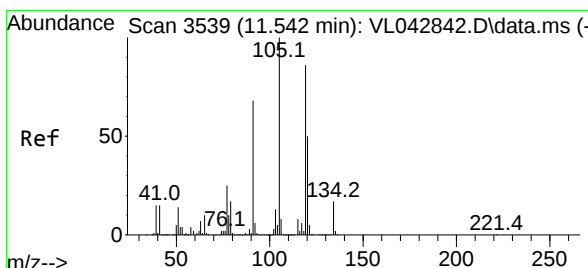
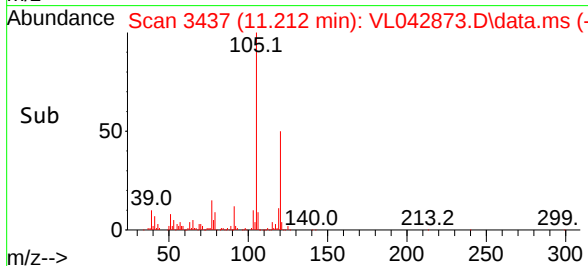
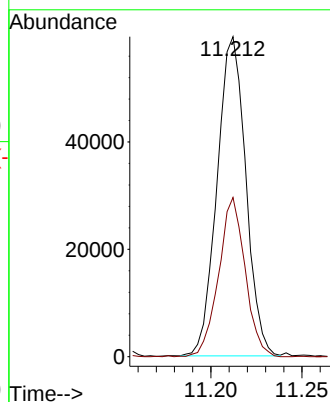
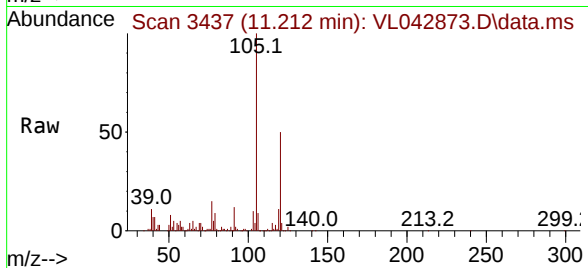
#73
1,3,5-Trimethylbenzene
Concen: 1.419 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:105 Resp: 65238
Ion Ratio Lower Upper
105 100
120 49.9 36.6 54.8

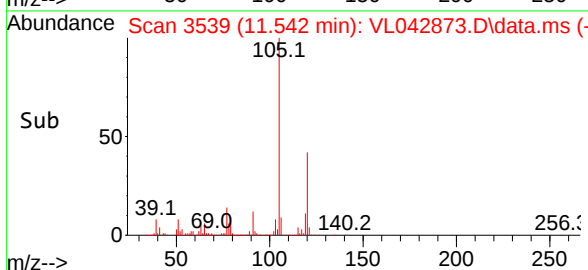
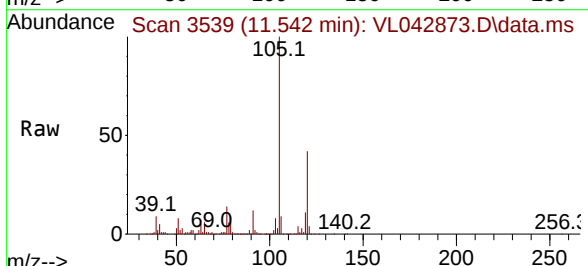
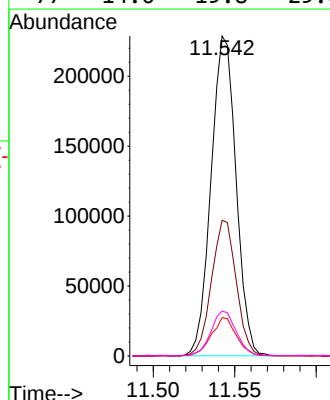
Manual Integrations
APPROVED

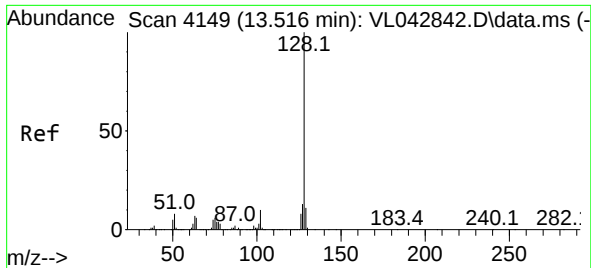
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#74
1,2,4-Trimethylbenzene
Concen: 4.830 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. 0.000 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

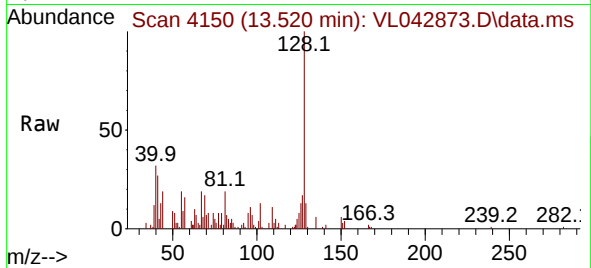
Tgt Ion:105 Resp: 243738
Ion Ratio Lower Upper
105 100
120 42.4 39.8 59.6
91 11.9 54.2 81.4#
77 14.0 19.8 29.6#





#79
Naphthalene
Concen: 0.182 ppbv
RT: 13.520 min Scan# 4150
Delta R.T. 0.003 min
Lab File: VL042873.D
Acq: 21 Aug 2025 19:39

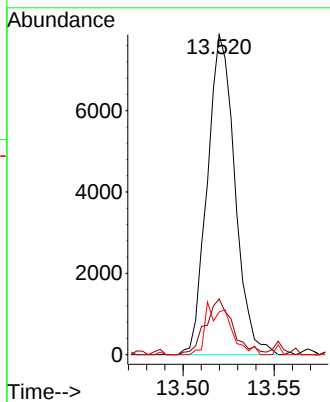
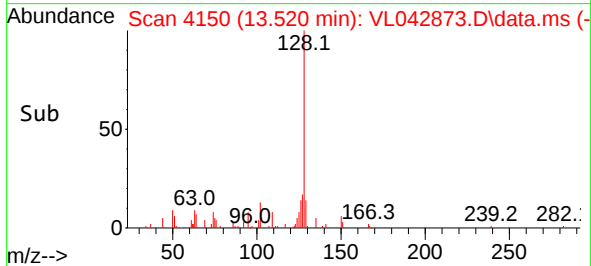
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:128 Resp: 8314
Ion Ratio Lower Upper
128 100
127 17.4 10.6 16.0
129 13.3 8.9 13.3

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	08/18/25
Project:	271 NASSAU AVE BROOKLYN,NY	Date Received:	08/18/25
Client Sample ID:	OA1	SDG No.:	Q2898
Lab Sample ID:	Q2898-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042874.D	10		08/21/25 20:13	VL082125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.25	0.64	U	0.64	0.77	ug/m3
142-82-5	Heptane	1.70	6.97	U	6.97	20.5	ug/m3
75-35-4	1,1-Dichloroethene	1.50	5.95	U	5.95	19.8	ug/m3
110-82-7	Cyclohexane	2.20	7.57	U	7.57	17.2	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.99	3.93	U	3.93	19.8	ug/m3
71-55-6	1,1,1-Trichloroethane	0.16	0.87	U	0.87	1.64	ug/m3
540-84-1	2,2,4-Trimethylpentane	1.40	6.54	U	6.54	23.4	ug/m3
71-43-2	Benzene	0.79	2.52	U	2.52	16.0	ug/m3
79-01-6	Trichloroethene	0.24	1.29	U	1.29	1.61	ug/m3
108-88-3	Toluene	1.60	6.03	U	6.03	18.8	ug/m3
127-18-4	Tetrachloroethene	0.15	1.02	U	1.02	2.03	ug/m3
100-41-4	Ethyl Benzene	1.90	8.25	U	8.25	21.7	ug/m3
179601-23-1	m/p-Xylene	4.10	17.8	U	17.8	43.4	ug/m3
95-47-6	o-Xylene	2.10	9.12	U	9.12	21.7	ug/m3
108-67-8	1,3,5-Trimethylbenzene	1.80	8.85	U	8.85	24.6	ug/m3
95-63-6	1,2,4-Trimethylbenzene	1.80	8.85	U	8.85	24.6	ug/m3
91-20-3	Naphthalene	0.13	0.68	U	0.68	5.24	ug/m3
110-54-3	Hexane	1.60	5.64	U	5.64	17.6	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	129000		2.79			
540-36-3	1,4-Difluorobenzene	384000		3.968			
3114-55-4	Chlorobenzene-d5	316000		8.888			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042874.D
 Acq On : 21 Aug 2025 20:13
 Operator : SY/MD
 Sample : Q2898-03 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:28:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:28:01 2025
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	129498	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	383631	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	315784	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.380	95	239081	10.095	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.000%
Target Compounds						
						Qvalue
4) Chloromethane	1.531	50	919	0.120	ppbv	99
13) Ethanol	1.725	45	4048m	4.887	ppbv	
15) Acetone	1.839	43	22011	1.285	ppbv	94
20) Methylene Chloride	2.065	84	1960	0.273	ppbv	87
26) Hexane	2.829	57	2690m	0.141	ppbv	
34) 2-Butanone	2.570	43	3543m	0.137	ppbv	
53) Toluene	6.933	91	4786m	0.110	ppbv	

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

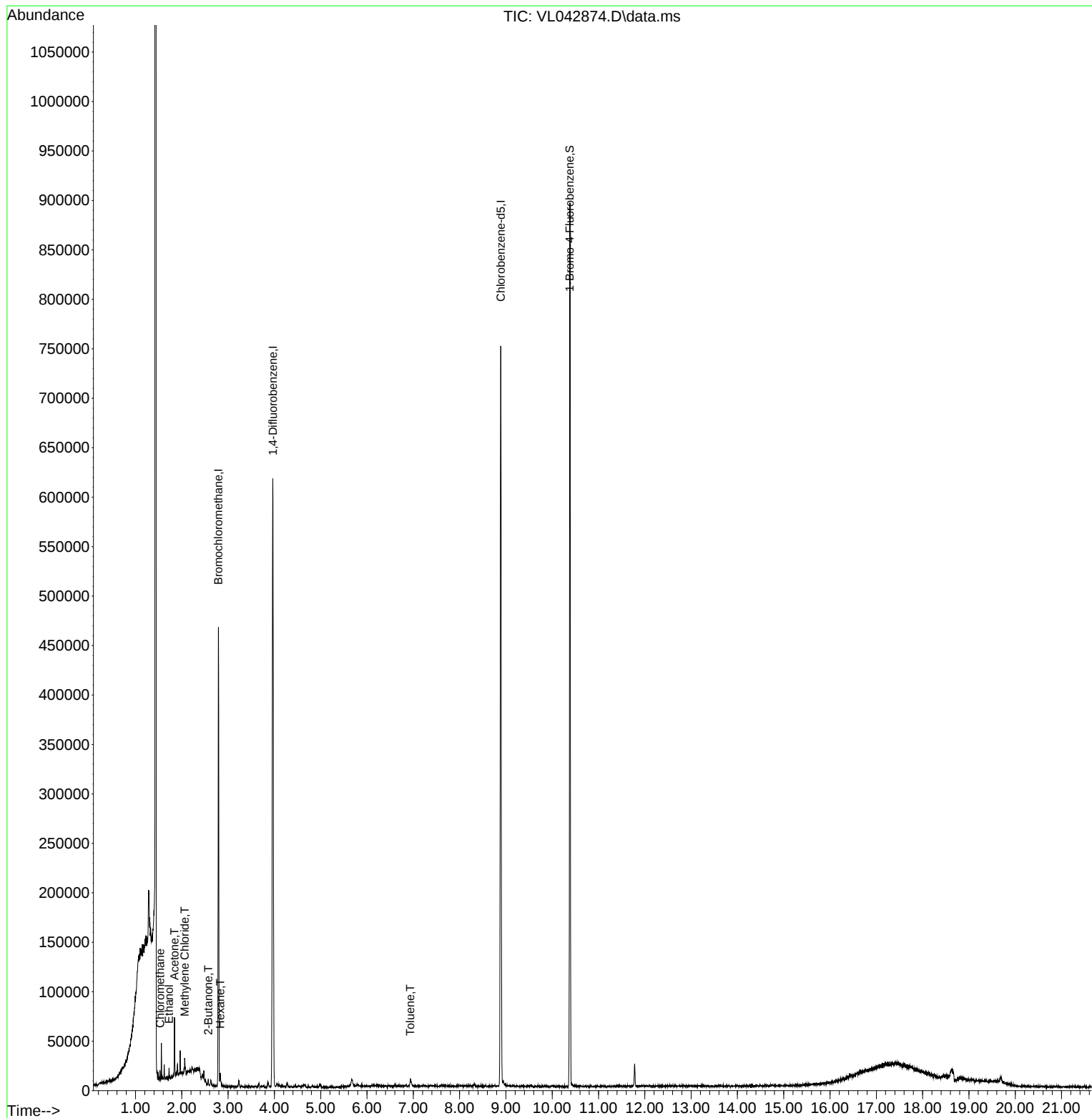
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042874.D
Acq On : 21 Aug 2025 20:13
Operator : SY/MD
Sample : Q2898-03 10X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

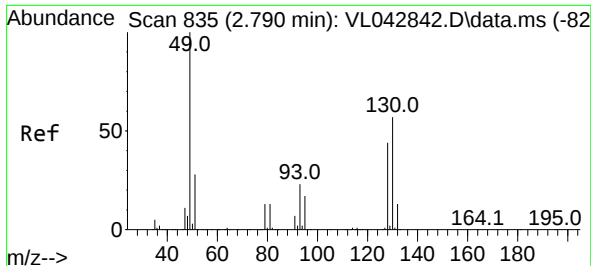
Instrument :
MSVOA_L
ClientSampleId :
OA1

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

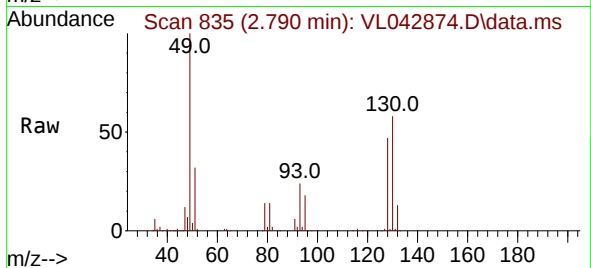
Quant Time: Aug 22 01:28:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.790 min Scan# 835
Delta R.T. 0.000 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

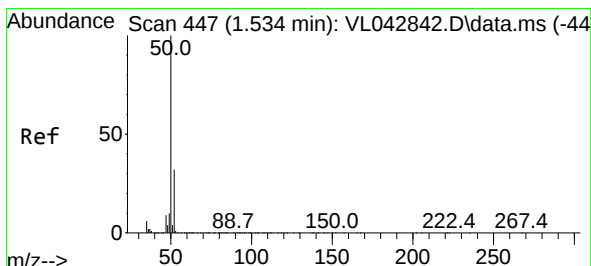
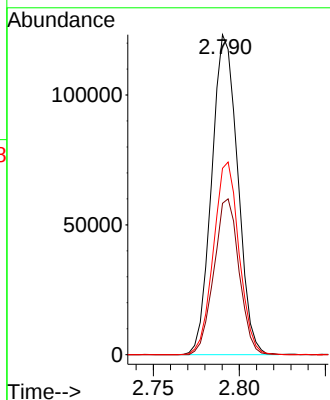
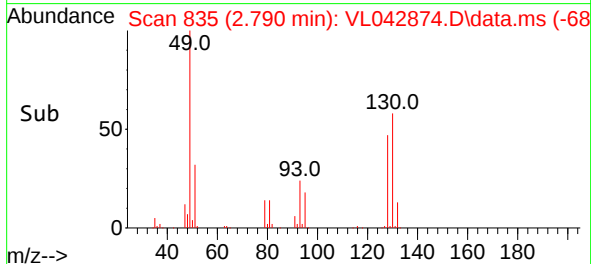
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 49 Resp: 129498
Ion Ratio Lower Upper
49 100
128 47.2 23.7 71.1
130 59.3 30.6 91.6

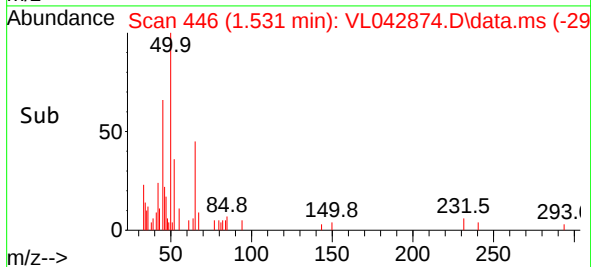
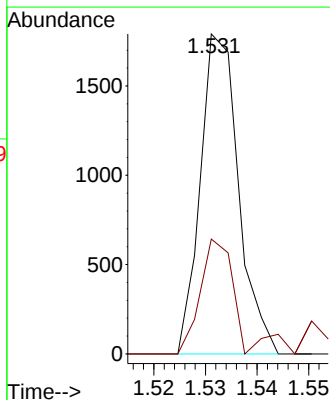
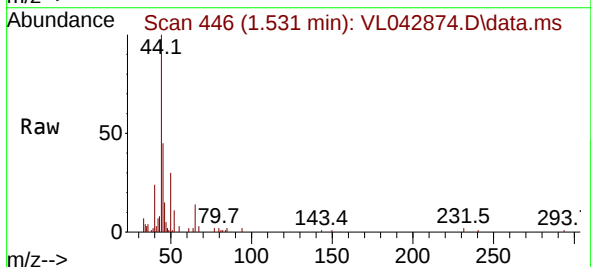
Manual Integrations
APPROVED

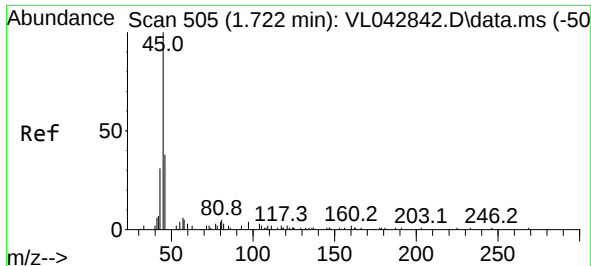
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#4
Chloromethane
Concen: 0.120 ppbv
RT: 1.531 min Scan# 446
Delta R.T. -0.003 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

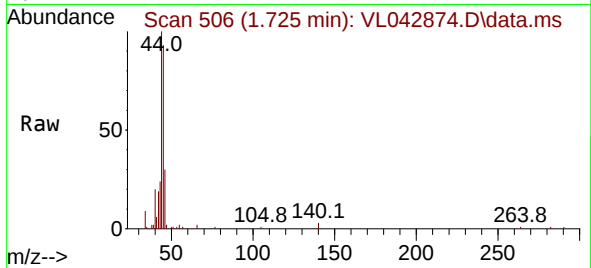
Tgt Ion: 50 Resp: 919
Ion Ratio Lower Upper
50 100
52 31.7 25.9 38.9





#13
Ethanol
Concen: 4.887 ppbv m
RT: 1.725 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

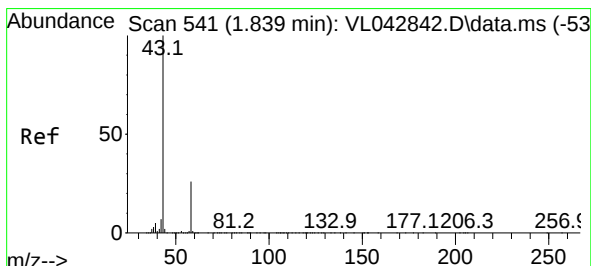
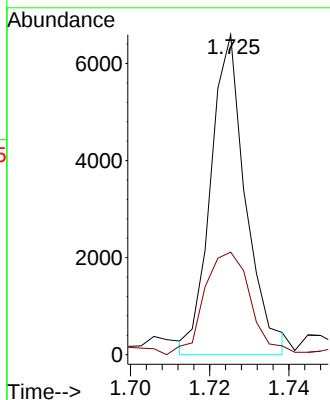
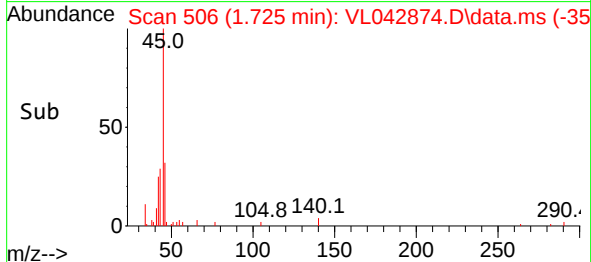
Instrument :
MSVOA_L
ClientSampleId :
OA1



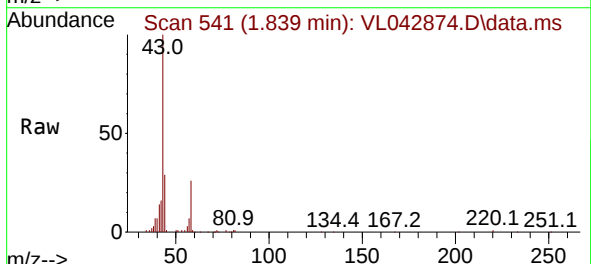
Tgt Ion: 45 Resp: 4048
Ion Ratio Lower Upper
45 100
46 2741.2 17.5 69.9

Manual Integrations
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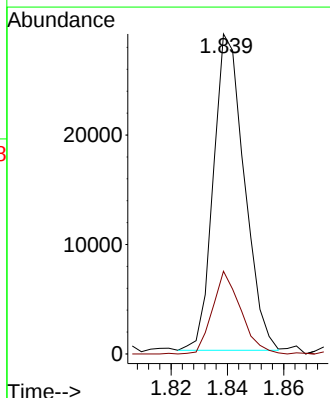
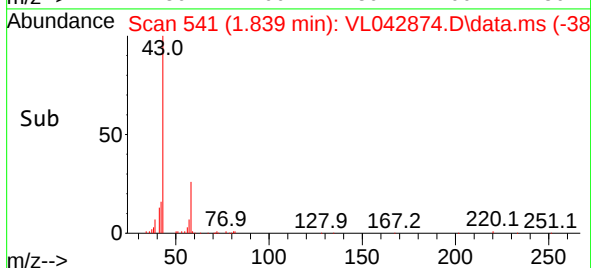
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

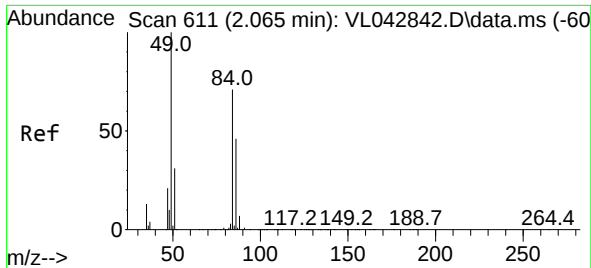


#15
Acetone
Concen: 1.285 ppbv
RT: 1.839 min Scan# 541
Delta R.T. -0.000 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13



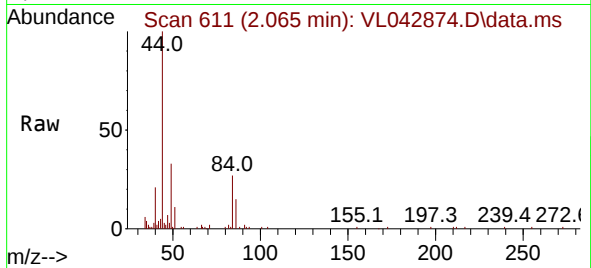
Tgt Ion: 43 Resp: 22011
Ion Ratio Lower Upper
43 100
58 24.7 22.4 33.6





#20
Methylene Chloride
Concen: 0.273 ppbv
RT: 2.065 min Scan# 611
Delta R.T. -0.000 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

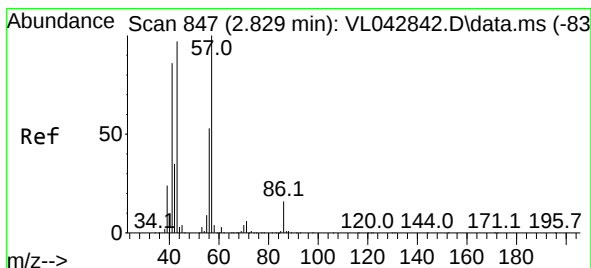
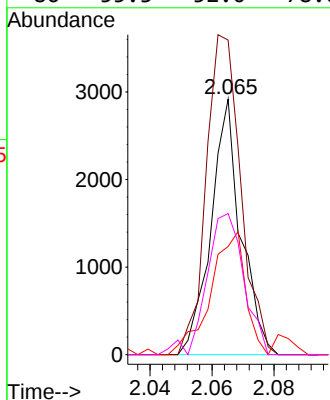
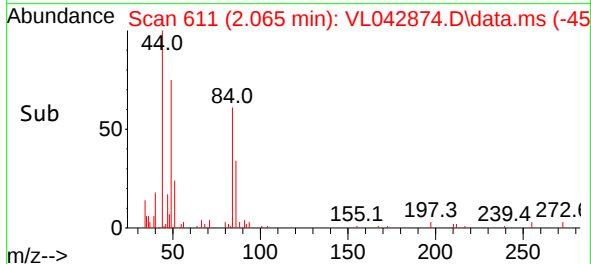
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 84 Resp: 1960
Ion Ratio Lower Upper
84 100
49 123.1 112.3 168.5
51 38.7 36.0 54.0
86 55.3 52.0 78.0

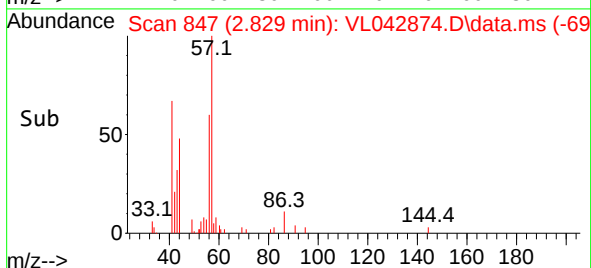
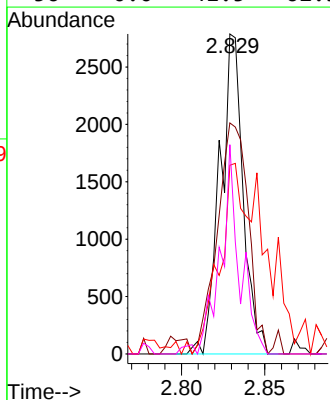
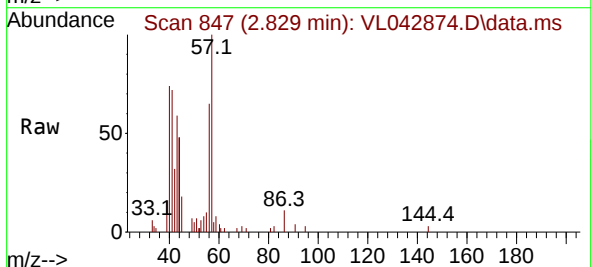
Manual Integrations
APPROVED

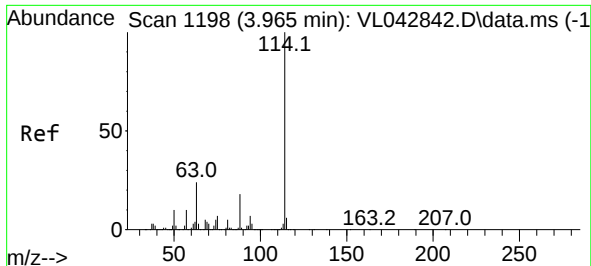
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#26
Hexane
Concen: 0.141 ppbv m
RT: 2.829 min Scan# 847
Delta R.T. -0.000 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

Tgt Ion: 57 Resp: 2690
Ion Ratio Lower Upper
57 100
41 0.0 68.6 103.0#
43 0.0 168.5 252.7#
56 0.0 41.5 62.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. 0.003 min

Lab File: VL042874.D

Acq: 21 Aug 2025 20:13

Instrument :

MSVOA_L

ClientSampleId :

OA1

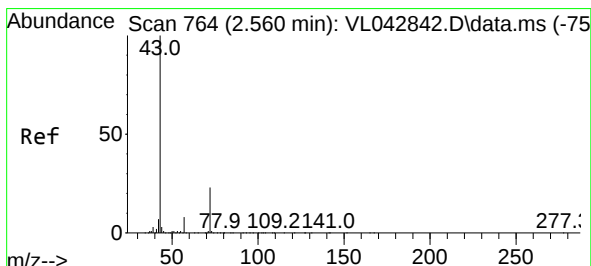
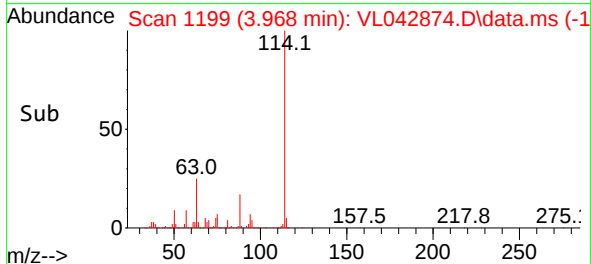
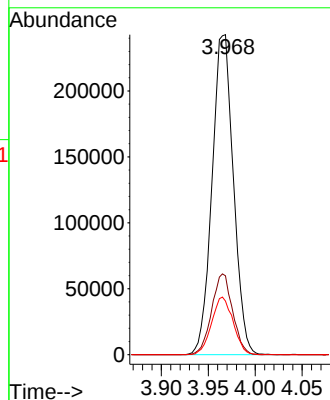
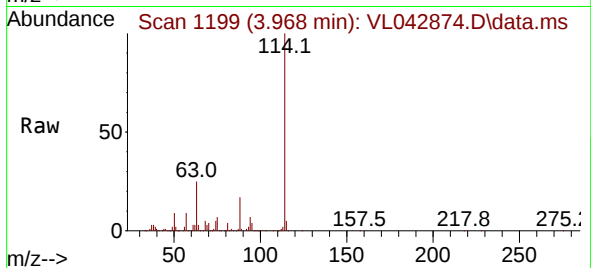
Tgt Ion:114 Resp: 38363

Ion	Ratio	Lower	Upper
114	100		
63	24.8	19.7	29.5
88	18.1	14.4	21.6

Manual Integrations

APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#34

2-Butanone

Concen: 0.137 ppbv m

RT: 2.570 min Scan# 767

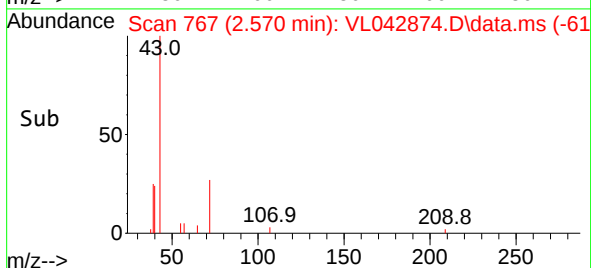
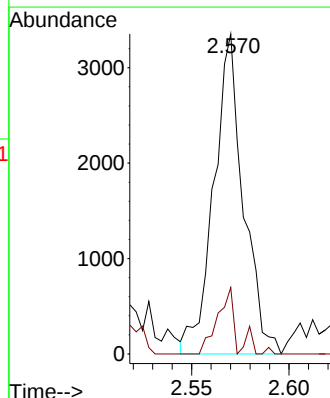
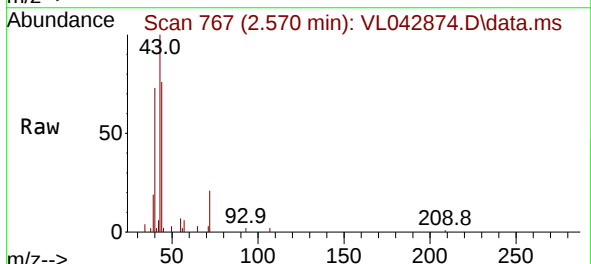
Delta R.T. 0.010 min

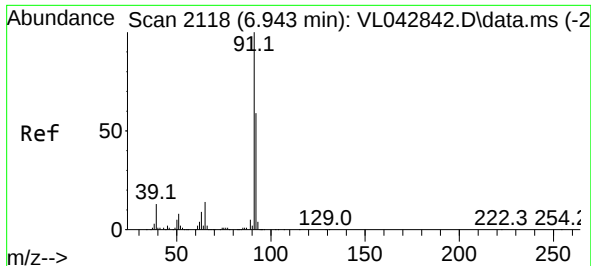
Lab File: VL042874.D

Acq: 21 Aug 2025 20:13

Tgt Ion: 43 Resp: 3543

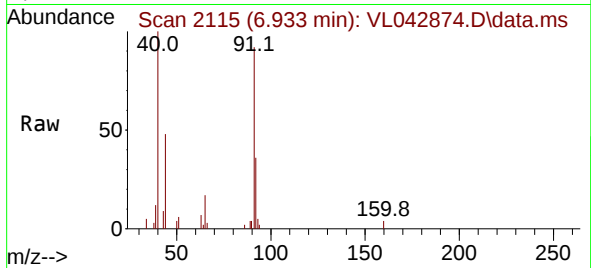
Ion	Ratio	Lower	Upper
43	100		
72	13.2	18.6	28.0#





#53
Toluene
Concen: 0.110 ppbv m
RT: 6.933 min Scan# 2118
Delta R.T. -0.010 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

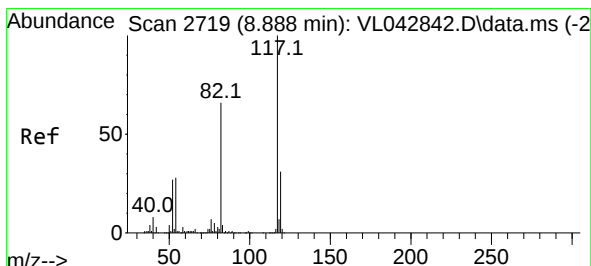
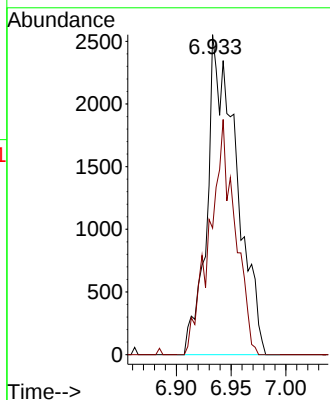
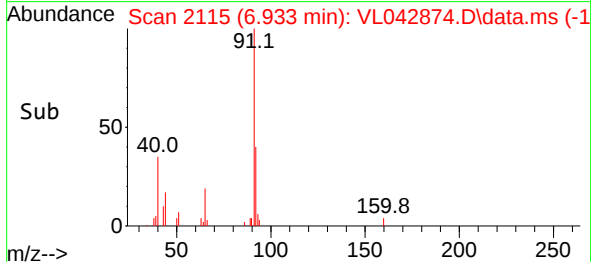
Instrument :
MSVOA_L
ClientSampleId :
OA1



Tgt Ion: 91 Resp: 4780
Ion Ratio Lower Upper
91 100
92 0.0 47.8 71.6

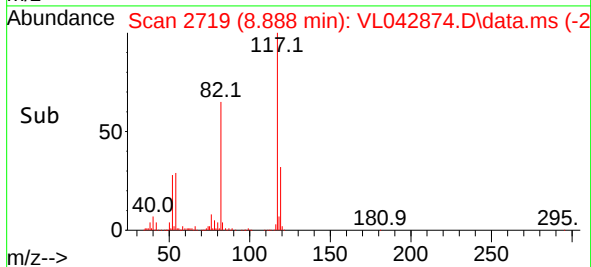
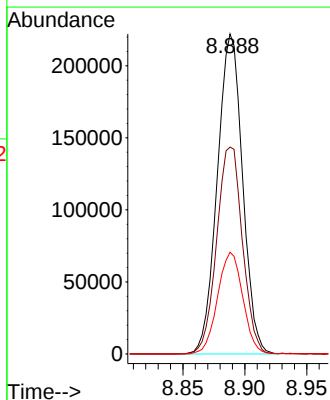
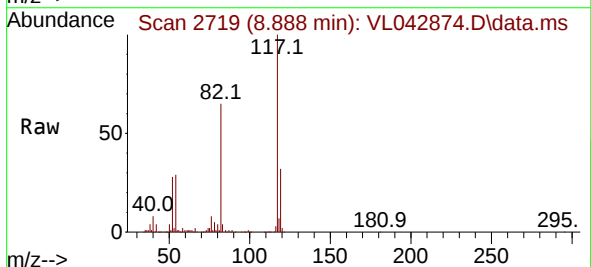
Manual Integrations
APPROVED

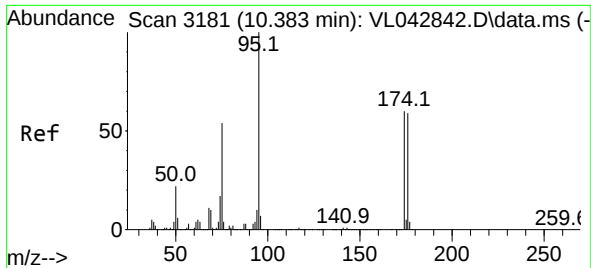
Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 2719
Delta R.T. -0.000 min
Lab File: VL042874.D
Acq: 21 Aug 2025 20:13

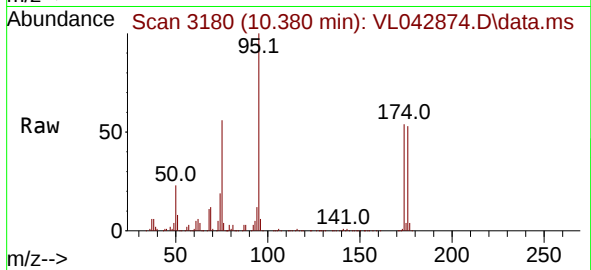
Tgt Ion:117 Resp: 315784
Ion Ratio Lower Upper
117 100
82 66.2 54.6 81.8
119 31.8 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.095 ppbv
 RT: 10.380 min Scan# 31
 Delta R.T. -0.003 min
 Lab File: VL042874.D
 Acq: 21 Aug 2025 20:13

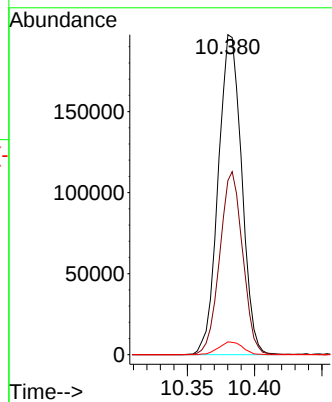
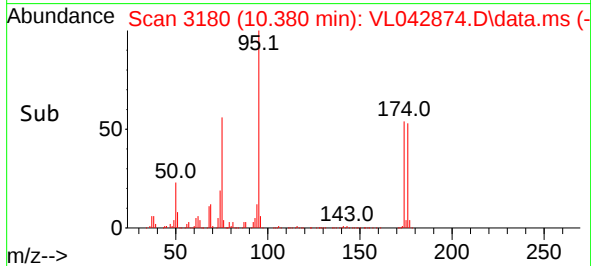
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1



Tgt Ion: 95 Resp: 23908
 Ion Ratio Lower Upper
 95 100
 174 56.0 48.4 72.6
 175 4.1 3.8 5.8

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GFEL01

Lab Code: ACE

SDG No.: Q2898

Instrument ID: MSVOA_L

Calibration Date(s): 08/13/2025 08/13/2025

Heated Purge: (Y/N) N

Calibration Time(s): 08:30 12:06

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

LAB FILE ID:		RRF010 = VL042842.D		RRF002 = VL042843.D		RRF001 = VL042844.D		
		RRF0.5 = VL042845.D		RRF0.1 = VL042846.D		RRF.03 = VL042847.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.502	0.550	0.559	0.593	0.639	0.728	0.582	13.7
Heptane	1.718	1.917	2.011	2.009			1.874	8
1,1-Dichloroethene	0.469	0.532	0.509	0.552			0.507	7.2
Cyclohexane	1.214	1.340	1.283	1.425			1.296	6.9
cis-1,2-Dichloroethene	1.346	1.524	1.524	1.625			1.476	8.1
1,1,1-Trichloroethane	1.999	2.215	2.148	2.209	2.528	2.448	2.230	8.7
2,2,4-Trimethylpentane	1.515	1.676	1.719	1.728			1.625	7.1
Benzene	0.912	0.990	0.978	1.013			0.958	5.3
Trichloroethene	0.399	0.453	0.448	0.501	0.448	0.416	0.437	8.3
Toluene	1.072	1.160	1.181	1.219			1.138	6.1
Tetrachloroethene	0.313	0.345	0.333	0.369	0.379	0.391	0.346	10.2
Ethyl Benzene	1.636	1.838	1.866	1.854			1.765	6.8
m/p-Xylene	1.283	1.455	1.454	1.447			1.383	6.8
o-Xylene	1.266	1.445	1.472	1.532			1.391	9.3
1,3,5-Trimethylbenzene	1.293	1.512	1.535	1.548			1.434	9.4
1,2,4-Trimethylbenzene	1.394	1.698	1.706	1.710			1.574	11.3
Naphthalene	1.315	1.746	1.647	1.383	1.174		1.427	15.5
1-Bromo-4-Fluorobenzene	0.755	0.744	0.760	0.755	0.746	0.736	0.750	1.1
Hexane	1.392	1.522	1.552	1.557			1.478	6.2

* 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 : VL081325AIR.M

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

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.566	1.525	1.511	1.343	1.383	1.466	6.61
3) Chlorodifluoro...			1.752	1.621	1.714	1.509	1.504	1.620	7.05
4) Chloromethane			0.648	0.618	0.606	0.533	0.551	0.591	8.09
5) T Vinyl Chloride	0.728	0.639	0.593	0.559	0.550	0.502	0.507	0.582	13.72
6) T Bromomethane			0.248	0.268	0.239	0.203	0.206	0.233	12.06
7) Chloroethane			0.266	0.240	0.219	0.202	0.210	0.227	11.46
8) T Dichlorotetra...			1.273	1.235	1.245	1.122	1.122	1.199	6.02
9) T Propene			0.824	0.692	0.715	0.656	0.611	0.700	11.40
10) T Heptane			2.009	2.011	1.917	1.718	1.713	1.874	7.96
11) T Trichlorofluor...			1.614	1.533	1.467	1.271	1.345	1.446	9.59
12) T 1,1,2-Trichlor...			1.259	1.202	1.189	1.047	1.066	1.152	7.95
13) Ethanol			0.089	0.069	0.070	0.046	0.047	0.064	27.87
14) T Bromoethene			0.462	0.416	0.436	0.381	0.391	0.417	7.89
15) T Acetone			1.708	1.475	1.476	0.950	1.005	1.323	24.92
16) T 1,3-Butadiene			0.783	0.633	0.579	0.500	0.503	0.600	19.47
17) tert-Butyl alc...			1.920	1.660	1.557	1.371	1.335	1.569	15.14
18) T 1,1-Dichloroet...			0.552	0.509	0.532	0.469	0.472	0.507	7.21
19) T Isopropyl Alcohol			0.976	0.847	0.799	0.649	0.679	0.790	16.79
20) T Methylene Chlo...			0.792	0.596	0.544	0.414	0.425	0.554	27.79
21) T Allyl Chloride			1.122	0.902	0.945	0.850	0.854	0.935	11.98
22) T trans-1,2-Dich...			0.630	0.613	0.604	0.537	0.546	0.586	7.10
23) T Vinyl Acetate			2.161	1.733	1.849	1.663	1.689	1.819	11.22
24) T 1,1-Dichloroet...			1.317	1.223	1.185	1.040	1.088	1.171	9.38
25) T Ethyl Acetate			3.491	3.346	3.324	2.932	2.914	3.202	8.19
26) T Hexane			1.557	1.552	1.522	1.392	1.366	1.478	6.19
27) T Carbon Disulfide			1.504	1.513	1.511	1.314	1.348	1.438	6.84
28) T Methyl tert-Bu...			0.833	0.747	0.817	0.661	0.710	0.754	9.61
29) T Chloroform			2.299	2.183	2.166	1.932	1.970	2.110	7.32
30) T Cyclohexane			1.425	1.283	1.340	1.214	1.217	1.296	6.87
31) T cis-1,2-Dichlo...			1.625	1.524	1.524	1.346	1.362	1.476	8.06
32) T 1,1,1-Trichlor...	2.448	2.528	2.209	2.148	2.215	1.999	2.063	2.230	8.69

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.753	0.702	0.700	0.610	0.611	0.675	9.33
35) T Carbon Tetrach...	0.736	0.738	0.682	0.700	0.692	0.636	0.643	0.689	5.84
36) T Benzene			1.013	0.978	0.990	0.912	0.896	0.958	5.33
37) T 1,2-Dichloroet...			0.512	0.516	0.503	0.483	0.488	0.500	2.87
38) T Trichloroethene	0.416	0.448	0.501	0.448	0.453	0.399	0.397	0.437	8.35
39) T 1,2-Dichloropr...			0.378	0.365	0.356	0.324	0.326	0.350	6.84

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\										
Method File : VL081325AIR.M										
40) T	1,4-Dioxane			0.189	0.185	0.166	0.148	0.144	0.166	12.22
41) T	Tetrahydrofuran			0.395	0.389	0.392	0.355	0.351	0.376	5.64
42) T	Bromodichlorom...			0.786	0.742	0.777	0.708	0.714	0.745	4.77
43) T	Methyl Methacr...			0.427	0.402	0.415	0.368	0.362	0.394	7.31
44) T	2,2,4-Trimethy...			1.728	1.719	1.676	1.515	1.489	1.625	7.06
45) T	t-1,3-Dichloro...			0.450	0.464	0.456	0.428	0.427	0.445	3.73
46) T	cis-1,3-Dichlo...			0.568	0.559	0.578	0.539	0.529	0.555	3.67
47) T	1,1,2-Trichlor...			0.395	0.382	0.386	0.341	0.348	0.371	6.52
48) T	Dibromochlorom...			0.596	0.605	0.632	0.584	0.581	0.600	3.44
49) T	Bromoform			0.466	0.514	0.535	0.491	0.467	0.495	6.07
50) T	4-Methyl-2-Pen...			0.960	0.917	0.946	0.881	0.859	0.913	4.67
51) T	2-Hexanone			0.723	0.737	0.750	0.699	0.683	0.718	3.82
52) T	Tetrachloroethene	0.391	0.379	0.369	0.333	0.345	0.313	0.295	0.346	10.19
53) T	Toluene			1.219	1.180	1.160	1.072	1.061	1.138	6.09
54) T	1,2-Dibromoethane		0.599	0.549	0.532	0.552	0.506	0.512	0.542	6.24
-----ISTD-----										
55) I	Chlorobenzene-d5									
56) T	1,1,1,2-Tetrac...			0.534	0.549	0.551	0.476	0.476	0.517	7.39
57) T	Chlorobenzene			1.026	0.990	0.994	0.878	0.866	0.951	7.68
58) T	Ethyl Benzene			1.854	1.866	1.838	1.636	1.630	1.765	6.84
59) T	m/p-Xylene			1.447	1.454	1.455	1.283	1.277	1.383	6.81
60) T	o-Xylene			1.532	1.472	1.445	1.266	1.242	1.391	9.31
61) T	Styrene			0.711	0.677	0.660	0.610	0.601	0.652	7.09
62) T	Isopropylbenzene			2.149	2.194	2.133	1.852	1.838	2.033	8.53
63) T	1,1,2,2-Tetrac...	0.881	0.774	0.795	0.784	0.772	0.674	0.677	0.765	9.39
64) T	n-propylbenzene			0.570	0.528	0.549	0.475	0.472	0.519	8.47
65) T	tert-Butylbenzene			1.907	1.991	1.910	1.605	1.549	1.793	11.19
66) T	Benzyl Chloride			0.232	0.226	0.246	0.227	0.207	0.228	6.21
67) T	sec-Butylbenzene			2.669	2.754	2.706	2.250	2.202	2.516	10.62
68) S	1-Bromo-4-Fluo...	0.736	0.746	0.755	0.760	0.744	0.755	0.754	0.750	1.09
69) T	p-Isopropyltol...			2.338	2.372	2.328	1.905	1.856	2.160	11.85
70) T	n-Butylbenzene			2.234	2.303	2.333	1.927	1.915	2.142	9.58
71) T	2-Chlorotoluene			1.709	1.719	1.641	1.418	1.408	1.579	9.77
72) T	4-Ethyltoluene			1.738	1.806	1.784	1.563	1.543	1.687	7.39
73) T	1,3,5-Trimethy...			1.548	1.535	1.512	1.293	1.283	1.434	9.37
74) T	1,2,4-Trimethy...			1.710	1.706	1.698	1.394	1.365	1.574	11.33
75) T	1,3-Dichlorobe...			0.937	0.946	0.967	0.831	0.795	0.895	8.59
76) T	1,4-Dichlorobe...			0.966	0.946	0.978	0.833	0.803	0.905	8.93
77) T	1,2-Dichlorobe...			0.937	0.956	0.947	0.781	0.761	0.876	11.03
78) T	Hexachloro-1,3...			0.814	0.845	0.804	0.572	0.556	0.718	19.74
79) T	Naphthalene		1.174	1.383	1.647	1.746	1.315	1.300	1.427	15.50
80) T	Naphthalene,2-...			0.430	0.554	0.708	0.478	0.497	0.533	20.15
81) T	1,2,4-Trichlor...			0.623	0.797	0.855	0.661	0.650	0.717	14.24

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	133104	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	413632	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	370372	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	178799	9.166	ppbv	100
3) Chlorodifluoromethane	1.476	51	200866	9.306	ppbv	100
4) Chloromethane	1.534	50	70952	9.013	ppbv	100
5) Vinyl Chloride	1.583	62	66768	8.612	ppbv	100
6) Bromomethane	1.670	94	26964	8.698	ppbv	100
7) Chloroethane	1.706	64	26884	8.879	ppbv	100
8) Dichlorotetrafluoroethane	1.557	85	149341	9.355	ppbv	100
9) Propene	1.486	41	87352	9.380	ppbv	100
10) Heptane	4.988	43	228679	9.186	ppbv	100
11) Trichlorofluoromethane	1.881	101	169157	8.789	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	139340	9.083	ppbv	100
13) Ethanol	1.722	45	6172	6.690	ppbv	100
14) Bromoethene	1.784	108	50730	9.135	ppbv	100
15) Acetone	1.839	43	126419	7.180	ppbv	100
16) 1,3-Butadiene	1.612	39	66595	8.343	ppbv	100
17) tert-Butyl alcohol	2.043	59	182511	8.741	ppbv	100
18) 1,1-Dichloroethene	2.036	96	62397	9.252	ppbv	100
19) Isopropyl Alcohol	1.887	45	86367	8.213	ppbv	100
20) Methylene Chloride	2.065	84	55107	7.471	ppbv	100
21) Allyl Chloride	2.098	41	113105	9.093	ppbv	100
22) trans-1,2-Dichloroethene	2.344	96	71518	9.482	ppbv	100
23) Vinyl Acetate	2.467	43	221395	9.558	ppbv	100
24) 1,1-Dichloroethane	2.412	63	138444	8.885	ppbv	100
25) Ethyl Acetate	2.839	43	390295	9.159	ppbv	100
26) Hexane	2.829	57	185288	9.420	ppbv	100
27) Carbon Disulfide	2.153	76	174928	9.138	ppbv	100
28) Methyl tert-Butyl Ether	2.444	73	87929	8.767	ppbv	100
29) Chloroform	2.852	83	257176	9.158	ppbv	100
30) Cyclohexane	3.862	84	161540	9.367	ppbv	100
31) cis-1,2-Dichloroethene	2.726	61	179162	9.107	ppbv	100
32) 1,1,1-Trichloroethane	3.373	97	266021	8.946	ppbv	100
34) 2-Butanone	2.560	43	252300	9.033	ppbv	100
35) Carbon Tetrachloride	3.771	117	262983	9.222	ppbv	100
36) Benzene	3.664	78	377113	9.521	ppbv	100
37) 1,2-Dichloroethane	3.224	62	199762	9.653	ppbv	100
38) Trichloroethene	4.557	130	164881	9.115	ppbv	100
39) 1,2-Dichloropropane	4.324	63	133996	9.263	ppbv	100
40) 1,4-Dioxane	4.590	88	61378	9.064	ppbv #	100
41) Tetrahydrofuran	3.059	42	147025	9.442	ppbv	100
42) Bromodichloromethane	4.499	83	292909	9.499	ppbv	100
43) Methyl Methacrylate	4.891	69	152035	9.357	ppbv	100
44) 2,2,4-Trimethylpentane	4.648	57	626465	9.420	ppbv	100
45) t-1,3-Dichloropropene	6.425	75	177207	9.616	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042842.D
 Acq On : 13 Aug 2025 08:30
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	222921	9.635	ppbv	100
47) 1,1,2-Trichloroethane	6.590	97	141105	9.215	ppbv	100
48) Dibromochloromethane	7.396	129	241553	9.739	ppbv	100
49) Bromoform	9.490	173	202975	9.923	ppbv	100
50) 4-Methyl-2-Pentanone	5.761	43	364306	9.616	ppbv	100
51) 2-Hexanone	7.441	43	289052	9.730	ppbv #	100
52) Tetrachloroethene	8.234	164	129484	9.026	ppbv	100
53) Toluene	6.943	91	443400	9.407	ppbv	100
54) 1,2-Dibromoethane	7.661	107	209330	9.345	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.933	131	176135	9.196	ppbv	100
57) Chlorobenzene	8.930	112	325303	9.237	ppbv	100
58) Ethyl Benzene	9.364	91	605785	9.268	ppbv	100
59) m/p-Xylene	9.542	91	950548m	18.524	ppbv	
60) o-Xylene	9.972	91	469073	9.102	ppbv	100
61) Styrene	9.879	104	226056	9.362	ppbv	100
62) Isopropylbenzene	10.549	105	685983	9.108	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	249621	8.870	ppbv	100
64) n-propylbenzene	10.995	120	175986	9.158	ppbv	100
65) tert-Butylbenzene	11.539	119	594314	8.951	ppbv	100
66) Benzyl Chloride	11.620	91	84156	9.985	ppbv	100
67) sec-Butylbenzene	11.772	105	833378	8.943	ppbv	100
69) p-Isopropyltoluene	11.931	119	705700	8.820	ppbv	100
70) n-Butylbenzene	12.287	91	713713	8.995	ppbv	100
71) 2-Chlorotoluene	10.908	91	525235	8.981	ppbv	100
72) 4-Ethyltoluene	11.131	105	578931	9.267	ppbv	100
73) 1,3,5-Trimethylbenzene	11.209	105	478784	9.012	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	516253	8.853	ppbv	100
75) 1,3-Dichlorobenzene	11.613	146	307640	9.280	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	308542	9.203	ppbv	100
77) 1,2-Dichlorobenzene	11.953	146	289119	8.907	ppbv	100
78) Hexachloro-1,3-Butadiene	13.885	225	211996	7.968	ppbv	100
79) Naphthalene	13.516	128	487174	9.335	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	176880	9.000	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	244998	9.220	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	130555	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	408144	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	363830	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	39443	2.061	ppbv	99
3) Chlorodifluoromethane	1.480	51	44759	2.114	ppbv	96
4) Chloromethane	1.535	50	15826	2.050	ppbv	99
5) Vinyl Chloride	1.583	62	14358	1.888	ppbv	97
6) Bromomethane	1.670	94	6248	2.055	ppbv	97
7) Chloroethane	1.706	64	5717	1.925	ppbv	94
8) Dichlorotetrafluoroethane	1.557	85	32496	2.075	ppbv	98
9) Propene	1.486	41	18678	2.045	ppbv	89
10) Heptane	4.991	43	50062	2.050	ppbv	97
11) Trichlorofluoromethane	1.881	101	38308	2.029	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.146	101	31052	2.064	ppbv	99
13) Ethanol	1.725	45	1817m	2.008	ppbv	
14) Bromoethene	1.784	108	11376	2.089	ppbv	96
15) Acetone	1.839	43	38531	2.231	ppbv	96
16) 1,3-Butadiene	1.612	39	15122	1.932	ppbv	98
17) tert-Butyl alcohol	2.046	59	40652	1.985	ppbv	97
18) 1,1-Dichloroethene	2.039	96	13883	2.099	ppbv	95
19) Isopropyl Alcohol	1.891	45	20866	2.023	ppbv #	39
20) Methylene Chloride	2.065	84	14204	1.963	ppbv #	92
21) Allyl Chloride	2.101	41	24662	2.021	ppbv	96
22) trans-1,2-Dichloroethene	2.344	96	15773	2.132	ppbv	96
23) Vinyl Acetate	2.467	43	48269	2.125	ppbv #	98
24) 1,1-Dichloroethane	2.415	63	30931	2.024	ppbv	98
25) Ethyl Acetate	2.842	43	86804	2.077	ppbv	98
26) Hexane	2.832	57	39735	2.060	ppbv	94
27) Carbon Disulfide	2.156	76	39466	2.102	ppbv #	15
28) Methyl tert-Butyl Ether	2.444	73	21341	2.169	ppbv	96
29) Chloroform	2.855	83	56553	2.053	ppbv	95
30) Cyclohexane	3.868	84	34992	2.069	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	39783	2.062	ppbv	95
32) 1,1,1-Trichloroethane	3.376	97	57837	1.983	ppbv	100
34) 2-Butanone	2.564	43	57172	2.075	ppbv	98
35) Carbon Tetrachloride	3.771	117	56459	2.007	ppbv	97
36) Benzene	3.664	78	80781	2.067	ppbv	98
37) 1,2-Dichloroethane	3.227	62	41034	2.010	ppbv	97
38) Trichloroethene	4.561	130	36990	2.072	ppbv #	86
39) 1,2-Dichloropropane	4.328	63	29059	2.036	ppbv	98
40) 1,4-Dioxane	4.606	88	13510m	2.022	ppbv	
41) Tetrahydrofuran	3.062	42	31994	2.082	ppbv	97
42) Bromodichloromethane	4.503	83	63436	2.085	ppbv	97
43) Methyl Methacrylate	4.888	69	33851m	2.111	ppbv	
44) 2,2,4-Trimethylpentane	4.655	57	136794	2.085	ppbv	98
45) t-1,3-Dichloropropene	6.428	75	37248	2.048	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.609	75	47201m	2.067	ppbv	
47) 1,1,2-Trichloroethane	6.593	97	31477m	2.083	ppbv	
48) Dibromochloromethane	7.399	129	51620	2.109	ppbv	100
49) Bromoform	9.493	173	43662	2.163	ppbv	99
50) 4-Methyl-2-Pentanone	5.768	43	77225	2.066	ppbv	99
51) 2-Hexanone	7.451	43	61210	2.088	ppbv #	98
52) Tetrachloroethene	8.234	164	28166	1.990	ppbv	92
53) Toluene	6.946	91	94690	2.036	ppbv	98
54) 1,2-Dibromoethane	7.665	107	45071	2.039	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.933	131	40090	2.131	ppbv	97
57) Chlorobenzene	8.933	112	72296	2.090	ppbv	97
58) Ethyl Benzene	9.364	91	133719	2.083	ppbv	99
59) m/p-Xylene	9.558	91	211704m	4.200	ppbv	
60) o-Xylene	9.972	91	105125	2.077	ppbv	100
61) Styrene	9.879	104	48027	2.025	ppbv	96
62) Isopropylbenzene	10.545	105	155223	2.098	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.972	83	56139	2.031	ppbv	98
64) n-propylbenzene	10.995	120	39922	2.115	ppbv	97
65) tert-Butylbenzene	11.536	119	139019	2.132	ppbv	99
66) Benzyl Chloride	11.623	91	17893	2.161	ppbv	97
67) sec-Butylbenzene	11.772	105	196899	2.151	ppbv	98
69) p-Isopropyltoluene	11.931	119	169429	2.156	ppbv	99
70) n-Butylbenzene	12.287	91	169768	2.178	ppbv	99
71) 2-Chlorotoluene	10.908	91	119382	2.078	ppbv	99
72) 4-Ethyltoluene	11.131	105	129786	2.115	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	110043	2.109	ppbv	99
74) 1,2,4-Trimethylbenzene	11.542	105	123554	2.157	ppbv	97
75) 1,3-Dichlorobenzene	11.613	146	70330	2.160	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	71160	2.161	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	68944	2.162	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	58509	2.239	ppbv	100
79) Naphthalene	13.517	128	127025	2.478	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	51541	2.670	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	62216	2.384	ppbv	98

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042843.D
 Acq On : 13 Aug 2025 09:06
 Operator : SY/MD
 Sample : VSTDIC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

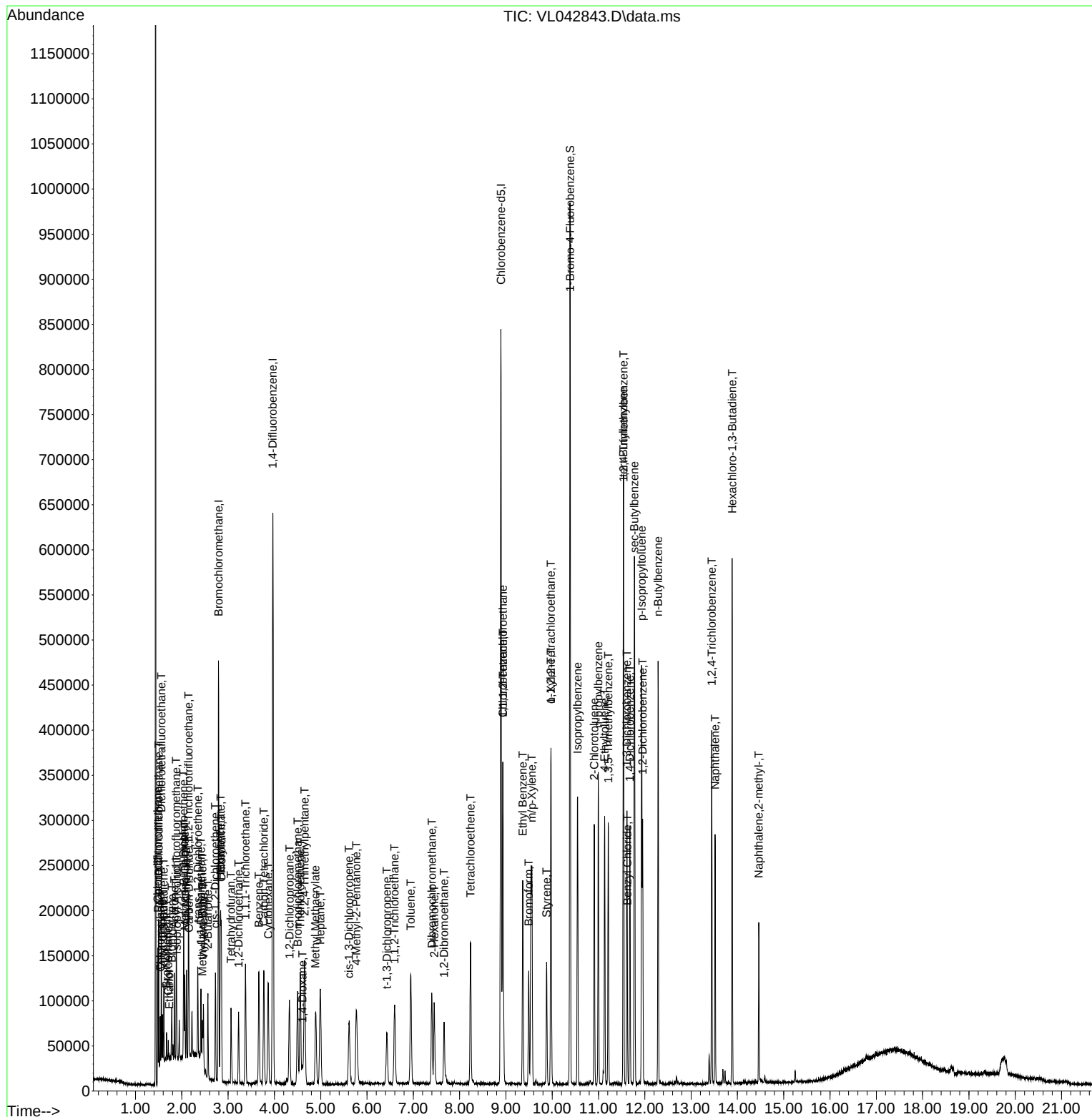
Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.791	49	128542	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	400305	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	349577	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.380 95 265708 10.135 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	19603	1.041	ppbv	99
3) Chlorodifluoromethane	1.476	51	20833	0.999	ppbv	93
4) Chloromethane	1.535	50	7948	1.045	ppbv	96
5) Vinyl Chloride	1.583	62	7189	0.960	ppbv	96
6) Bromomethane	1.667	94	3446	1.151	ppbv	84
7) Chloroethane	1.706	64	3089	1.056	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	15872	1.030	ppbv	100
9) Propene	1.486	41	8897	0.989	ppbv	89
10) Heptane	4.985	43	25850m	1.075	ppbv	
11) Trichlorofluoromethane	1.881	101	19701	1.060	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.143	101	15446	1.043	ppbv	97
13) Ethanol	1.722	45	883m	0.991	ppbv	
14) Bromoethene	1.784	108	5343	0.996	ppbv #	78
15) Acetone	1.839	43	18961	1.115	ppbv	98
16) 1,3-Butadiene	1.609	39	8133	1.055	ppbv	98
17) tert-Butyl alcohol	2.046	59	21342	1.058	ppbv #	93
18) 1,1-Dichloroethene	2.040	96	6549	1.006	ppbv	93
19) Isopropyl Alcohol	1.888	45	10893	1.073	ppbv #	39
20) Methylene Chloride	2.062	84	7661	1.076	ppbv #	90
21) Allyl Chloride	2.098	41	11598	0.966	ppbv	88
22) trans-1,2-Dichloroethene	2.344	96	7882m	1.082	ppbv	
23) Vinyl Acetate	2.467	43	22270	0.996	ppbv #	96
24) 1,1-Dichloroethane	2.412	63	15727	1.045	ppbv	98
25) Ethyl Acetate	2.842	43	43007	1.045	ppbv	98
26) Hexane	2.829	57	19944	1.050	ppbv	92
27) Carbon Disulfide	2.153	76	19450	1.052	ppbv #	2
28) Methyl tert-Butyl Ether	2.444	73	9600	0.991	ppbv #	88
29) Chloroform	2.852	83	28055	1.034	ppbv	97
30) Cyclohexane	3.865	84	16492	0.990	ppbv	90
31) cis-1,2-Dichloroethene	2.723	61	19591	1.031	ppbv	98
32) 1,1,1-Trichloroethane	3.373	97	27607	0.961	ppbv	97
34) 2-Butanone	2.564	43	28105	1.040	ppbv	98
35) Carbon Tetrachloride	3.768	117	28008	1.015	ppbv	93
36) Benzene	3.661	78	39137	1.021	ppbv #	94
37) 1,2-Dichloroethane	3.224	62	20645	1.031	ppbv	97
38) Trichloroethene	4.555	130	17921	1.024	ppbv #	89
39) 1,2-Dichloropropane	4.325	63	14595m	1.042	ppbv	
40) 1,4-Dioxane	4.603	88	7386m	1.127	ppbv	
41) Tetrahydrofuran	3.062	42	15552	1.032	ppbv	94
42) Bromodichloromethane	4.499	83	29683	0.995	ppbv	99
43) Methyl Methacrylate	4.885	69	16073m	1.022	ppbv	
44) 2,2,4-Trimethylpentane	4.645	57	68813m	1.069	ppbv	
45) t-1,3-Dichloropropene	6.419	75	18580m	1.042	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042844.D
 Acq On : 13 Aug 2025 09:41
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.610	75	22372	0.999	ppbv	94
47) 1,1,2-Trichloroethane	6.597	97	15295	1.032	ppbv	86
48) Dibromochloromethane	7.396	129	24214	1.009	ppbv	99
49) Bromoform	9.490	173	20579	1.040	ppbv	98
50) 4-Methyl-2-Pentanone	5.768	43	36710	1.001	ppbv	98
51) 2-Hexanone	7.451	43	29487	1.026	ppbv #	99
52) Tetrachloroethene	8.235	164	13322	0.960	ppbv	90
53) Toluene	6.946	91	47256	1.036	ppbv	99
54) 1,2-Dibromoethane	7.665	107	21280	0.982	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.930	131	19176	1.061	ppbv	96
57) Chlorobenzene	8.930	112	34617	1.041	ppbv #	91
58) Ethyl Benzene	9.361	91	65223	1.057	ppbv	95
59) m/p-Xylene	9.558	91	101634m	2.098	ppbv	
60) o-Xylene	9.969	91	51445	1.058	ppbv	99
61) Styrene	9.879	104	23660	1.038	ppbv	100
62) Isopropylbenzene	10.546	105	76708	1.079	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.969	83	27410	1.032	ppbv	98
64) n-propylbenzene	10.995	120	18462	1.018	ppbv	90
65) tert-Butylbenzene	11.536	119	69617	1.111	ppbv	99
66) Benzyl Chloride	11.617	91	7900	0.993	ppbv	98
67) sec-Butylbenzene	11.772	105	96288	1.095	ppbv	98
69) p-Isopropyltoluene	11.931	119	82934	1.098	ppbv	99
70) n-Butylbenzene	12.287	91	80511	1.075	ppbv	99
71) 2-Chlorotoluene	10.908	91	60086	1.089	ppbv	100
72) 4-Ethyltoluene	11.131	105	63147	1.071	ppbv	99
73) 1,3,5-Trimethylbenzene	11.206	105	53676	1.070	ppbv	95
74) 1,2,4-Trimethylbenzene	11.539	105	59633	1.083	ppbv	96
75) 1,3-Dichlorobenzene	11.610	146	33061	1.057	ppbv	98
76) 1,4-Dichlorobenzene	11.675	146	33064	1.045	ppbv	96
77) 1,2-Dichlorobenzene	11.950	146	33404	1.090	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	29555	1.177	ppbv	95
79) Naphthalene	13.517	128	57580	1.169	ppbv	97
80) Naphthalene,2-methyl-	14.462	142	19375	1.045	ppbv	96
81) 1,2,4-Trichlorobenzene	13.442	180	27861	1.111	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	126879	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	396264	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.895	117	348005	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.387	95	262663	10.064	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.600%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	9937	0.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	11115	0.540	ppbv	96
4) Chloromethane	1.538	50	4112	0.548	ppbv	90
5) Vinyl Chloride	1.586	62	3762	0.509	ppbv	94
6) Bromomethane	1.674	94	1576	0.533	ppbv	82
7) Chloroethane	1.709	64	1690	0.586	ppbv #	85
8) Dichlorotetrafluoroethane	1.557	85	8079	0.531	ppbv	95
9) Propene	1.489	41	5225	0.589	ppbv	91
10) Heptane	4.998	43	12747	0.537	ppbv	93
11) Trichlorofluoromethane	1.884	101	10238	0.558	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	7984	0.546	ppbv	98
13) Ethanol	1.725	45	562	0.639	ppbv #	1
14) Bromoethene	1.787	108	2932	0.554	ppbv #	85
15) Acetone	1.842	43	10836	0.646	ppbv	98
16) 1,3-Butadiene	1.612	39	4970	0.653	ppbv	99
17) tert-Butyl alcohol	2.049	59	12182	0.612	ppbv #	89
18) 1,1-Dichloroethene	2.039	96	3501	0.545	ppbv	92
19) Isopropyl Alcohol	1.891	45	6194	0.618	ppbv #	56
20) Methylene Chloride	2.069	84	5025	0.715	ppbv	90
21) Allyl Chloride	2.104	41	7120	0.600	ppbv #	76
22) trans-1,2-Dichloroethene	2.350	96	3996	0.556	ppbv	96
23) Vinyl Acetate	2.470	43	13709	0.621	ppbv #	98
24) 1,1-Dichloroethane	2.418	63	8354	0.562	ppbv #	96
25) Ethyl Acetate	2.845	43	22148	0.545	ppbv #	96
26) Hexane	2.832	57	9879	0.527	ppbv	85
27) Carbon Disulfide	2.156	76	9539	0.523	ppbv #	1
28) Methyl tert-Butyl Ether	2.447	73	5284	0.553	ppbv #	62
29) Chloroform	2.858	83	14586	0.545	ppbv	100
30) Cyclohexane	3.868	84	9037	0.550	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	10308	0.550	ppbv #	86
32) 1,1,1-Trichloroethane	3.379	97	14011	0.494	ppbv	97
34) 2-Butanone	2.567	43	14923	0.558	ppbv	100
35) Carbon Tetrachloride	3.774	117	13507	0.494	ppbv	97
36) Benzene	3.671	78	20073	0.529	ppbv	98
37) 1,2-Dichloroethane	3.230	62	10141	0.512	ppbv #	93
38) Trichloroethene	4.564	130	9918	0.572	ppbv #	88
39) 1,2-Dichloropropane	4.334	63	7491	0.541	ppbv	86
40) 1,4-Dioxane	4.613	88	3743m	0.577	ppbv	
41) Tetrahydrofuran	3.072	42	7827	0.525	ppbv	93
42) Bromodichloromethane	4.509	83	15580	0.527	ppbv #	94
43) Methyl Methacrylate	4.897	69	8461m	0.544	ppbv	
44) 2,2,4-Trimethylpentane	4.661	57	34237m	0.537	ppbv	
45) t-1,3-Dichloropropene	6.435	75	8911m	0.505	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042845.D
 Acq On : 13 Aug 2025 10:17
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	11259m	0.508	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	7835m	0.534	ppbv	
48) Dibromochloromethane	7.406	129	11805	0.497	ppbv	100
49) Bromoform	9.497	173	9232	0.471	ppbv	95
50) 4-Methyl-2-Pentanone	5.778	43	19028m	0.524	ppbv	
51) 2-Hexanone	7.458	43	14329	0.503	ppbv #	99
52) Tetrachloroethene	8.244	164	7304	0.531	ppbv #	87
53) Toluene	6.956	91	24155m	0.535	ppbv	
54) 1,2-Dibromoethane	7.668	107	10873	0.507	ppbv	90
56) 1,1,1,2-Tetrachloroethane	8.940	131	9300	0.517	ppbv #	1
57) Chlorobenzene	8.937	112	17845	0.539	ppbv #	96
58) Ethyl Benzene	9.370	91	32261	0.525	ppbv	99
59) m/p-Xylene	9.561	91	50372m	1.045	ppbv	
60) o-Xylene	9.979	91	26662	0.551	ppbv	100
61) Styrene	9.885	104	12379	0.546	ppbv	95
62) Isopropylbenzene	10.552	105	37401	0.529	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.976	83	13828	0.523	ppbv	95
64) n-propylbenzene	10.998	120	9922	0.550	ppbv	98
65) tert-Butylbenzene	11.542	119	33183	0.532	ppbv	97
66) Benzyl Chloride	11.626	91	4039	0.510	ppbv #	97
67) sec-Butylbenzene	11.778	105	46433	0.530	ppbv	96
69) p-Isopropyltoluene	11.934	119	40686	0.541	ppbv	99
70) n-Butylbenzene	12.290	91	38867	0.521	ppbv	99
71) 2-Chlorotoluene	10.911	91	29736	0.541	ppbv	97
72) 4-Ethyltoluene	11.138	105	30234	0.515	ppbv	97
73) 1,3,5-Trimethylbenzene	11.212	105	26942	0.540	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	29750	0.543	ppbv	94
75) 1,3-Dichlorobenzene	11.617	146	16311	0.524	ppbv	95
76) 1,4-Dichlorobenzene	11.681	146	16803	0.533	ppbv	98
77) 1,2-Dichlorobenzene	11.956	146	16306	0.535	ppbv	97
78) Hexachloro-1,3-Butadiene	13.885	225	14165	0.567	ppbv	99
79) Naphthalene	13.520	128	24056	0.491	ppbv	96
80) Naphthalene,2-methyl-	14.465	142	7482	0.405	ppbv	95
81) 1,2,4-Trichlorobenzene	13.449	180	10844	0.434	ppbv	97

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042846.D
 Acq On : 13 Aug 2025 10:53
 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

08/14/2025
 Supervised By : Mahesh
 Dadoda

08/18/2025

Quant Time: Aug 14 01:49:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.790	49	123711	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	390520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	345073	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	257439	9.948	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds						
5) Vinyl Chloride	1.583	62	790	0.110	ppbv	# 86
32) 1,1,1-Trichloroethane	3.373	97	3128m	0.113	ppbv	
35) Carbon Tetrachloride	3.774	117	2883	0.107	ppbv	89
38) Trichloroethene	4.557	130	1748m	0.102	ppbv	
52) Tetrachloroethene	8.234	164	1479m	0.109	ppbv	
54) 1,2-Dibromoethane	7.665	107	2339m	0.111	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.972	83	2672	0.102	ppbv	99
79) Naphthalene	13.520	128	4051m	0.083	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042846.D
Acq On : 13 Aug 2025 10:53
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

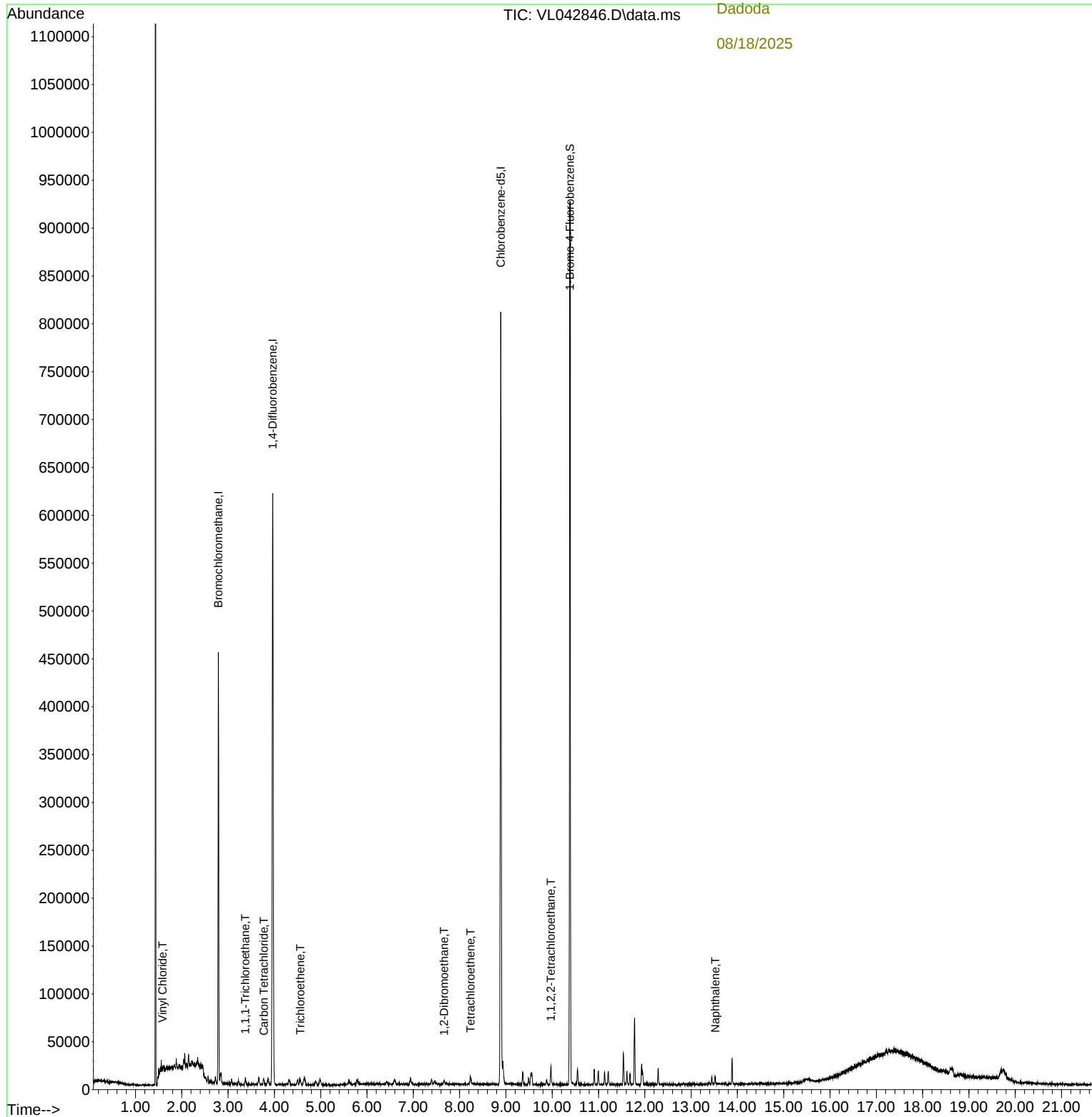
Quant Time: Aug 14 01:49:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin
Yesilyurt

08/14/2025
Supervised By : Mahesh
Dadoda

08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042847.D
 Acq On : 13 Aug 2025 11:30
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025
 QLast Update : Thu Aug 14 01:44:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	122705	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	390076	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.894	117	339700	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	250082	9.816	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.200%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.583	62	268	0.037	ppbv #	81
32) 1,1,1-Trichloroethane	3.379	97	901m	0.033	ppbv	
35) Carbon Tetrachloride	3.774	117	861m	0.032	ppbv	
38) Trichloroethene	4.573	130	487m	0.029	ppbv	
52) Tetrachloroethene	8.241	164	458m	0.034	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.979	83	898m	0.035	ppbv	

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

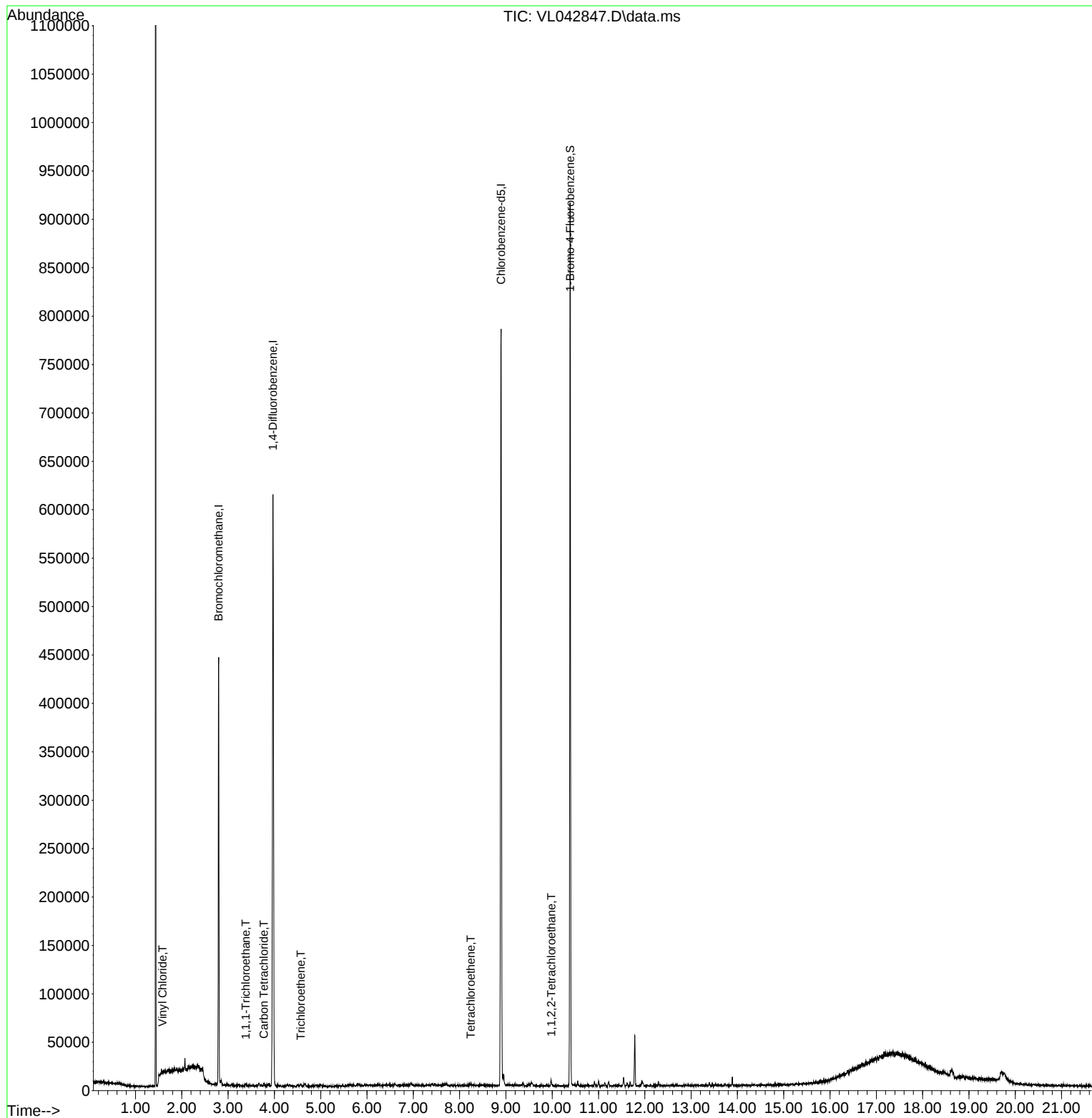
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042847.D
Acq On : 13 Aug 2025 11:30
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025
Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Thu Aug 14 01:44:36 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By : Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	122073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	380877	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	337876	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 254655 10.050 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.500%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	253151	14.150	ppbv	99
3) Chlorodifluoromethane	1.480	51	275350	13.910	ppbv	99
4) Chloromethane	1.535	50	100974	13.986	ppbv	99
5) Vinyl Chloride	1.583	62	92812	13.053	ppbv	100
6) Bromomethane	1.671	94	37740	13.275	ppbv	96
7) Chloroethane	1.706	64	38398	13.828	ppbv	97
8) Dichlorotetrafluoroethane	1.557	85	205386	14.029	ppbv	98
9) Propene	1.486	41	111824	13.094	ppbv	99
10) Heptane	4.988	43	313734	13.742	ppbv	99
11) Trichlorofluoromethane	1.881	101	246354	13.957	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.143	101	195231	13.877	ppbv	99
13) Ethanol	1.722	45	8534	10.086	ppbv	98
14) Bromoethene	1.784	108	71671	14.072	ppbv	99
15) Acetone	1.839	43	184116	11.402	ppbv	100
16) 1,3-Butadiene	1.612	39	92068	12.577	ppbv	100
17) tert-Butyl alcohol	2.043	59	244441	12.765	ppbv	100
18) 1,1-Dichloroethene	2.036	96	86349	13.961	ppbv	97
19) Isopropyl Alcohol	1.887	45	124270	12.885	ppbv	99
20) Methylene Chloride	2.065	84	77749	11.494	ppbv	97
21) Allyl Chloride	2.101	41	156318	13.703	ppbv	95
22) trans-1,2-Dichloroethene	2.344	96	100064	14.465	ppbv	95
23) Vinyl Acetate	2.467	43	309236	14.557	ppbv	98
24) 1,1-Dichloroethane	2.412	63	199276	13.944	ppbv	98
25) Ethyl Acetate	2.839	43	533600	13.653	ppbv	99
26) Hexane	2.833	57	250189	13.869	ppbv	98
27) Carbon Disulfide	2.153	76	246868	14.062	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	129978	14.131	ppbv	91
29) Chloroform	2.855	83	360661	14.003	ppbv	99
30) Cyclohexane	3.865	84	222820	14.088	ppbv	98
31) cis-1,2-Dichloroethene	2.726	61	249376	13.821	ppbv	96
32) 1,1,1-Trichloroethane	3.376	97	377739	13.851	ppbv	100
34) 2-Butanone	2.561	43	348815	13.563	ppbv	99
35) Carbon Tetrachloride	3.771	117	367354	13.990	ppbv	97
36) Benzene	3.664	78	511811	14.033	ppbv	99
37) 1,2-Dichloroethane	3.224	62	278934	14.639	ppbv	99
38) Trichloroethene	4.558	130	227091	13.634	ppbv	96
39) 1,2-Dichloropropane	4.325	63	186277	13.984	ppbv	95
40) 1,4-Dioxane	4.593	88	82385	13.212	ppbv #	91
41) Tetrahydrofuran	3.056	42	200751	14.001	ppbv	99
42) Bromodichloromethane	4.499	83	408089	14.372	ppbv	97
43) Methyl Methacrylate	4.888	69	206590	13.808	ppbv	99
44) 2,2,4-Trimethylpentane	4.652	57	850847	13.895	ppbv	99
45) t-1,3-Dichloropropene	6.428	75	244117	14.387	ppbv	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.616	75	302339	14.191	ppbv	98
47) 1,1,2-Trichloroethane	6.597	97	199067	14.118	ppbv	98
48) Dibromochloromethane	7.399	129	331947	14.535	ppbv	99
49) Bromoform	9.494	173	266732	14.162	ppbv	100
50) 4-Methyl-2-Pentanone	5.758	43	490917	14.073	ppbv	100
51) 2-Hexanone	7.448	43	389940	14.255	ppbv	100
52) Tetrachloroethene	8.238	164	168712	12.772	ppbv	98
53) Toluene	6.943	91	605941	13.961	ppbv	100
54) 1,2-Dibromoethane	7.665	107	292327	14.173	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	241293	13.810	ppbv	99
57) Chlorobenzene	8.934	112	439109	13.668	ppbv	99
58) Ethyl Benzene	9.364	91	826316	13.859	ppbv	99
59) m/p-Xylene	9.561	91	1294381m	27.650	ppbv	
60) o-Xylene	9.973	91	629445	13.389	ppbv	100
61) Styrene	9.882	104	304560	13.827	ppbv	99
62) Isopropylbenzene	10.549	105	931574	13.559	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.973	83	342890	13.356	ppbv	98
64) n-propylbenzene	10.999	120	239209	13.646	ppbv	98
65) tert-Butylbenzene	11.539	119	785250	12.965	ppbv	98
66) Benzyl Chloride	11.623	91	104698	13.617	ppbv	99
67) sec-Butylbenzene	11.775	105	1115979	13.127	ppbv	100
69) p-Isopropyltoluene	11.931	119	940888	12.891	ppbv	98
70) n-Butylbenzene	12.287	91	970700	13.410	ppbv	100
71) 2-Chlorotoluene	10.911	91	713696	13.378	ppbv	99
72) 4-Ethyltoluene	11.134	105	782057	13.722	ppbv	99
73) 1,3,5-Trimethylbenzene	11.212	105	650280	13.418	ppbv	99
74) 1,2,4-Trimethylbenzene	11.546	105	691709	13.003	ppbv	95
75) 1,3-Dichlorobenzene	11.617	146	402850	13.321	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	407214	13.314	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	385866	13.031	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	281581	11.602	ppbv	99
79) Naphthalene	13.517	128	658732	13.837	ppbv	100
80) Naphthalene,2-methyl-	14.462	142	251753	14.042	ppbv	100
81) 1,2,4-Trichlorobenzene	13.445	180	329641	13.599	ppbv	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042848.D
 Acq On : 13 Aug 2025 12:06
 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 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

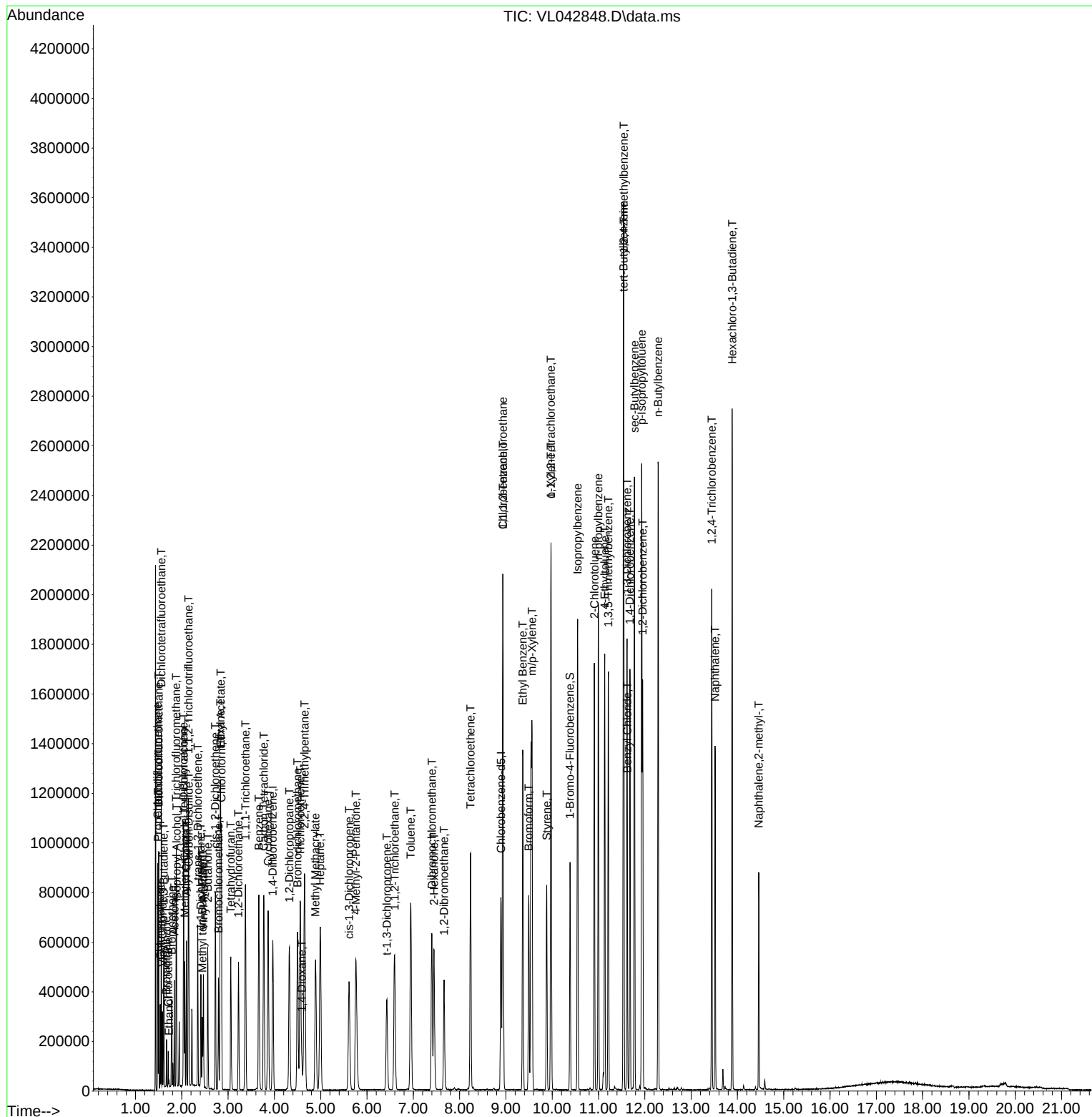
Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.790	49	122486	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	374448	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	333493	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 252268 10.086 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.499	85	163446	9.105	ppbv	96
3) Chlorodifluoromethane	1.476	51	185078	9.327	ppbv	100
4) Chloromethane	1.535	50	63634	8.784	ppbv	100
5) Vinyl Chloride	1.583	62	58729	8.232	ppbv	96
6) Bromomethane	1.670	94	25105	8.801	ppbv	97
7) Chloroethane	1.706	64	23293	8.360	ppbv	98
8) Dichlorotetrafluoroethane	1.557	85	135845	9.248	ppbv	99
9) Propene	1.483	41	76457	8.922	ppbv	97
10) Heptane	4.988	43	206333	8.990	ppbv	99
11) Trichlorofluoromethane	1.881	101	154211	8.707	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	124558	8.824	ppbv	99
13) Ethanol	1.722	45	6016	7.678	ppbv	96
14) Bromoethene	1.784	108	46528	9.105	ppbv	98
15) Acetone	1.839	43	119723	7.389	ppbv	99
16) 1,3-Butadiene	1.612	39	60853	8.285	ppbv	99
17) tert-Butyl alcohol	2.043	59	166457	8.663	ppbv	99
18) 1,1-Dichloroethene	2.036	96	56397	9.087	ppbv	94
19) Isopropyl Alcohol	1.887	45	78832	8.146	ppbv	98
20) Methylene Chloride	2.065	84	47793	7.041	ppbv	90
21) Allyl Chloride	2.098	41	102514	8.956	ppbv	97
22) trans-1,2-Dichloroethene	2.344	96	63932	8.904	ppbv	95
23) Vinyl Acetate	2.467	43	198083	8.891	ppbv #	97
24) 1,1-Dichloroethane	2.412	63	127660	8.903	ppbv	99
25) Ethyl Acetate	2.839	43	362325	9.240	ppbv	99
26) Hexane	2.829	57	167364	9.246	ppbv	97
27) Carbon Disulfide	2.153	76	155729	8.841	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	82126	8.898	ppbv	92
29) Chloroform	2.855	83	242320	9.377	ppbv	99
30) Cyclohexane	3.865	84	147417	9.289	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	166268	9.196	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	252813	9.256	ppbv	99
34) 2-Butanone	2.561	43	230961	9.135	ppbv	100
35) Carbon Tetrachloride	3.771	117	244671	9.478	ppbv	95
36) Benzene	3.664	78	343952	9.592	ppbv	98
37) 1,2-Dichloroethane	3.224	62	187160	9.991	ppbv	100
38) Trichloroethene	4.558	130	150693	9.202	ppbv	96
39) 1,2-Dichloropropane	4.324	63	123566	9.436	ppbv	97
40) 1,4-Dioxane	4.590	88	55292	8.879	ppbv #	93
41) Tetrahydrofuran	3.059	42	132108	9.372	ppbv	99
42) Bromodichloromethane	4.499	83	270154	9.678	ppbv	99
43) Methyl Methacrylate	4.888	69	136329	9.229	ppbv	99
44) 2,2,4-Trimethylpentane	4.648	57	565415	9.290	ppbv	100
45) t-1,3-Dichloropropene	6.428	75	160784	9.645	ppbv	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 14 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	199988m	9.628	ppbv	
47) 1,1,2-Trichloroethane	6.597	97	132548	9.553	ppbv	99
48) Dibromochloromethane	7.399	129	217970	9.708	ppbv	100
49) Bromoform	9.493	173	174914	9.446	ppbv	99
50) 4-Methyl-2-Pentanone	5.765	43	322264	9.430	ppbv	100
51) 2-Hexanone	7.445	43	263321	9.791	ppbv #	98
52) Tetrachloroethene	8.234	164	110828	8.544	ppbv	89
53) Toluene	6.946	91	398138	9.340	ppbv	100
54) 1,2-Dibromoethane	7.665	107	193340	9.535	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.937	131	160225	9.291	ppbv	99
57) Chlorobenzene	8.933	112	297375	9.378	ppbv	97
58) Ethyl Benzene	9.364	91	554015	9.414	ppbv	100
59) m/p-Xylene	9.561	91	865106m	18.754	ppbv	
60) o-Xylene	9.972	91	428721	9.239	ppbv	99
61) Styrene	9.879	104	203858	9.377	ppbv	100
62) Isopropylbenzene	10.549	105	624287	9.206	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.972	83	225237	8.826	ppbv	100
64) n-propylbenzene	10.998	120	158234	9.145	ppbv	97
65) tert-Butylbenzene	11.539	119	534795	8.946	ppbv	98
66) Benzyl Chloride	11.623	91	68533	9.031	ppbv	99
67) sec-Butylbenzene	11.775	105	762602	9.088	ppbv	100
69) p-Isopropyltoluene	11.934	119	634670	8.810	ppbv	98
70) n-Butylbenzene	12.287	91	647453	9.062	ppbv	99
71) 2-Chlorotoluene	10.908	91	485171	9.214	ppbv	98
72) 4-Ethyltoluene	11.131	105	525262	9.338	ppbv	100
73) 1,3,5-Trimethylbenzene	11.212	105	435705	9.108	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	469573	8.943	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	274876	9.209	ppbv	100
76) 1,4-Dichlorobenzene	11.678	146	270976	8.976	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	255347	8.736	ppbv	98
78) Hexachloro-1,3-Butadiene	13.886	225	186318	7.778	ppbv	97
79) Naphthalene	13.520	128	441940	9.284	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	145644	8.188	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	215715	9.016	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	1.466	1.334	9.0	91	0.00
3	Chlorodifluoromethane	1.620	1.511	6.7	92	0.00
4	Chloromethane	0.591	0.520	12.0	90	0.00
5 T	Vinyl Chloride	0.582	0.479	17.7	88	0.00
6 T	Bromomethane	0.233	0.205	12.0	93	0.00
7	Chloroethane	0.227	0.190	16.3	87	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.109	7.5	91	0.00
9 T	Propene	0.700	0.624	10.9	88	0.00
10 T	Heptane	1.874	1.685	10.1	90	0.00
11 T	Trichlorofluoromethane	1.446	1.259	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.017	11.7	89	0.00
13	Ethanol	0.064	0.049#	23.4	97	0.00
14 T	Bromoethene	0.417	0.380	8.9	92	0.00
15 T	Acetone	1.323	0.977	26.2	95	0.00
16 T	1,3-Butadiene	0.600	0.497	17.2	91	0.00
17	tert-Butyl alcohol	1.569	1.359	13.4	91	0.00
18 T	1,1-Dichloroethene	0.507	0.460	9.3	90	0.00
19 T	Isopropyl Alcohol	0.790	0.644	18.5	91	0.00
20 T	Methylene Chloride	0.554	0.390	29.6	87	0.00
21 T	Allyl Chloride	0.935	0.837	10.5	91	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.522	10.9	89	0.00
23 T	Vinyl Acetate	1.819	1.617	11.1	89	0.00
24 T	1,1-Dichloroethane	1.171	1.042	11.0	92	0.00
25 T	Ethyl Acetate	3.202	2.958	7.6	93	0.00
26 T	Hexane	1.478	1.366	7.6	90	0.00
27 T	Carbon Disulfide	1.438	1.271	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.670	11.1	93	0.00
29 T	Chloroform	2.110	1.978	6.3	94	0.00
30 T	Cyclohexane	1.296	1.204	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.357	8.1	93	0.00
32 T	1,1,1-Trichloroethane	2.230	2.064	7.4	95	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	91	0.00
34 T	2-Butanone	0.675	0.617	8.6	92	0.00
35 T	Carbon Tetrachloride	0.689	0.653	5.2	93	0.00
36 T	Benzene	0.958	0.919	4.1	91	0.00
37 T	1,2-Dichloroethane	0.500	0.500	0.0	94	0.00
38 T	Trichloroethene	0.437	0.402	8.0	91	0.00
39 T	1,2-Dichloropropane	0.350	0.330	5.7	92	0.00
40 T	1,4-Dioxane	0.166	0.148	10.8	90	0.00
41 T	Tetrahydrofuran	0.376	0.353	6.1	90	0.00
42 T	Bromodichloromethane	0.745	0.721	3.2	92	0.00
43	Methyl Methacrylate	0.394	0.364	7.6	90	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.510	7.1	90	0.00
45 T	t-1,3-Dichloropropene	0.445	0.429	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.534	3.8	90	0.00
47 T	1,1,2-Trichloroethane	0.371	0.354	4.6	94	0.00
48 T	Dibromochloromethane	0.600	0.582	3.0	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.467	5.7	86	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.861	5.7	88	0.00
51 T	2-Hexanone	0.718	0.703	2.1	91	0.00
52 T	Tetrachloroethene	0.346	0.296	14.5	86	0.00
53 T	Toluene	1.138	1.063	6.6	90	0.00
54 T	1,2-Dibromoethane	0.542	0.516	4.8	92	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.480	7.2	91	0.00
57 T	Chlorobenzene	0.951	0.892	6.2	91	0.00
58 T	Ethyl Benzene	1.765	1.661	5.9	91	0.00
59 T	m/p-Xylene	1.383	1.297	6.2	91	0.02
60 T	o-Xylene	1.391	1.286	7.5	91	0.00
61 T	Styrene	0.652	0.611	6.3	90	0.00
62	Isopropylbenzene	2.033	1.872	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.675	11.8	90	0.00
64	n-propylbenzene	0.519	0.474	8.7	90	0.00
65	tert-Butylbenzene	1.793	1.604	10.5	90	0.00
66 T	Benzyl Chloride	0.228	0.206	9.6	81	0.00
67	sec-Butylbenzene	2.516	2.287	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.756	-0.8	90	0.00
69	p-Isopropyltoluene	2.160	1.903	11.9	90	0.00
70	n-Butylbenzene	2.142	1.941	9.4	91	0.00
71	2-Chlorotoluene	1.579	1.455	7.9	92	0.00
72 T	4-Ethyltoluene	1.687	1.575	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.306	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.408	10.5	91	0.00
75 T	1,3-Dichlorobenzene	0.895	0.824	7.9	89	0.00
76 T	1,4-Dichlorobenzene	0.905	0.813	10.2	88	0.00
77 T	1,2-Dichlorobenzene	0.876	0.766	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.559	22.1	88	0.00
79 T	Naphthalene	1.427	1.325	7.1	91	0.00
80 T	Naphthalene,2-methyl-	0.533	0.437	18.0	82	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.647	9.8	88	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	92	0.00
2 T	Dichlorodifluoromethane	10.000	9.105	8.9	91	0.00
3	Chlorodifluoromethane	10.000	9.327	6.7	92	0.00
4	Chloromethane	10.000	8.784	12.2	90	0.00
5 T	Vinyl Chloride	10.000	8.232	17.7	88	0.00
6 T	Bromomethane	10.000	8.801	12.0	93	0.00
7	Chloroethane	10.000	8.360	16.4	87	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.248	7.5	91	0.00
9 T	Propene	10.000	8.922	10.8	88	0.00
10 T	Heptane	10.000	8.990	10.1	90	0.00
11 T	Trichlorofluoromethane	10.000	8.707	12.9	91	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.824	11.8	89	0.00
13	Ethanol	10.000	7.678	23.2	97	0.00
14 T	Bromoethene	10.000	9.105	8.9	92	0.00
15 T	Acetone	10.000	7.389	26.1	95	0.00
16 T	1,3-Butadiene	10.000	8.285	17.1	91	0.00
17	tert-Butyl alcohol	10.000	8.663	13.4	91	0.00
18 T	1,1-Dichloroethene	10.000	9.087	9.1	90	0.00
19 T	Isopropyl Alcohol	10.000	8.146	18.5	91	0.00
20 T	Methylene Chloride	10.000	7.041	29.6	87	0.00
21 T	Allyl Chloride	10.000	8.956	10.4	91	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.904	11.0	89	0.00
23 T	Vinyl Acetate	10.000	8.891	11.1	89	0.00
24 T	1,1-Dichloroethane	10.000	8.903	11.0	92	0.00
25 T	Ethyl Acetate	10.000	9.240	7.6	93	0.00
26 T	Hexane	10.000	9.246	7.5	90	0.00
27 T	Carbon Disulfide	10.000	8.841	11.6	89	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.898	11.0	93	0.00
29 T	Chloroform	10.000	9.377	6.2	94	0.00
30 T	Cyclohexane	10.000	9.289	7.1	91	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.196	8.0	93	0.00
32 T	1,1,1-Trichloroethane	10.000	9.256	7.4	95	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	91	0.00
34 T	2-Butanone	10.000	9.135	8.7	92	0.00
35 T	Carbon Tetrachloride	10.000	9.478	5.2	93	0.00
36 T	Benzene	10.000	9.592	4.1	91	0.00
37 T	1,2-Dichloroethane	10.000	9.991	0.1	94	0.00
38 T	Trichloroethene	10.000	9.202	8.0	91	0.00
39 T	1,2-Dichloropropane	10.000	9.436	5.6	92	0.00
40 T	1,4-Dioxane	10.000	8.879	11.2	90	0.00
41 T	Tetrahydrofuran	10.000	9.372	6.3	90	0.00
42 T	Bromodichloromethane	10.000	9.678	3.2	92	0.00
43	Methyl Methacrylate	10.000	9.229	7.7	90	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.290	7.1	90	0.00
45 T	t-1,3-Dichloropropene	10.000	9.645	3.6	91	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.628	3.7	90	0.00
47 T	1,1,2-Trichloroethane	10.000	9.553	4.5	94	0.00
48 T	Dibromochloromethane	10.000	9.708	2.9	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
 Data File : VL042849.D
 Acq On : 13 Aug 2025 12:56
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	9.446	5.5	86	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.430	5.7	88	0.00
51 T	2-Hexanone	10.000	9.791	2.1	91	0.00
52 T	Tetrachloroethene	10.000	8.544	14.6	86	0.00
53 T	Toluene	10.000	9.340	6.6	90	0.00
54 T	1,2-Dibromoethane	10.000	9.535	4.6	92	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	90	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.291	7.1	91	0.00
57 T	Chlorobenzene	10.000	9.378	6.2	91	0.00
58 T	Ethyl Benzene	10.000	9.414	5.9	91	0.00
59 T	m/p-Xylene	20.000	18.754	6.2	91	0.02
60 T	o-Xylene	10.000	9.239	7.6	91	0.00
61 T	Styrene	10.000	9.377	6.2	90	0.00
62	Isopropylbenzene	10.000	9.206	7.9	91	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	8.826	11.7	90	0.00
64	n-propylbenzene	10.000	9.145	8.6	90	0.00
65	tert-Butylbenzene	10.000	8.946	10.5	90	0.00
66 T	Benzyl Chloride	10.000	9.031	9.7	81	0.00
67	sec-Butylbenzene	10.000	9.088	9.1	92	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.086	-0.9	90	0.00
69	p-Isopropyltoluene	10.000	8.810	11.9	90	0.00
70	n-Butylbenzene	10.000	9.062	9.4	91	0.00
71	2-Chlorotoluene	10.000	9.214	7.9	92	0.00
72 T	4-Ethyltoluene	10.000	9.338	6.6	91	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.108	8.9	91	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.943	10.6	91	0.00
75 T	1,3-Dichlorobenzene	10.000	9.209	7.9	89	0.00
76 T	1,4-Dichlorobenzene	10.000	8.976	10.2	88	0.00
77 T	1,2-Dichlorobenzene	10.000	8.736	12.6	88	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.778	22.2	88	0.00
79 T	Naphthalene	10.000	9.284	7.2	91	0.00
80 T	Naphthalene,2-methyl-	10.000	8.188	18.1	82	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.016	9.8	88	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	<u>Alliance</u>	Contract:	<u>GFEL01</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2898</u>
Instrument ID:	<u>MSVOA_L</u>	Calibration Date/Time:	<u>08/21/2025 13:57</u>
Lab File ID:	<u>VL042866.D</u>	Init. Calib. Date(s):	<u>08/13/2025 08/13/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Init. Calib. Time(s):	<u>08:30 12:06</u>
GC Column:	<u>RTX-1</u>	ID:	<u>0.32</u> (mm)

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.582	0.489		-15.98	30
Heptane	1.874	1.655		-11.69	30
1,1-Dichloroethene	0.507	0.482		-4.93	30
Cyclohexane	1.296	1.169		-9.8	30
cis-1,2-Dichloroethene	1.476	1.351		-8.47	30
1,1,1-Trichloroethane	2.230	2.080		-6.73	30
2,2,4-Trimethylpentane	1.625	1.540		-5.23	30
Benzene	0.958	0.940		-1.88	30
Trichloroethene	0.437	0.405		-7.32	30
Toluene	1.138	1.067		-6.24	30
Tetrachloroethene	0.346	0.298		-13.87	30
Ethyl Benzene	1.765	1.742		-1.3	30
m/p-Xylene	1.383	1.375		-0.58	30
o-Xylene	1.391	1.361		-2.16	30
1,3,5-Trimethylbenzene	1.434	1.376		-4.05	30
1,2,4-Trimethylbenzene	1.574	1.507		-4.26	30
Naphthalene	1.427	1.357		-4.91	30
1-Bromo-4-Fluorobenzene	0.750	0.783		4.4	30
Hexane	1.478	1.349		-8.73	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\VL082125\
 Data File : VL042866.D
 Acq On : 21 Aug 2025 13:57
 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 :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:22:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:22:35 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.794	49	135675	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	398583	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.892	117	346592	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.384 95 271488 10.444 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	189359	9.523	ppbv	98
3) Chlorodifluoromethane	1.476	51	210097	9.559	ppbv	98
4) Chloromethane	1.535	50	74712	9.311	ppbv	98
5) Vinyl Chloride	1.583	62	66393	8.401	ppbv	97
6) Bromomethane	1.671	94	26683	8.444	ppbv	93
7) Chloroethane	1.706	64	27548	8.926	ppbv	95
8) Dichlorotetrafluoroethane	1.557	85	151166	9.290	ppbv	97
9) Propene	1.486	41	81852	8.623	ppbv	100
10) Heptane	4.991	43	224483	8.830	ppbv	99
11) Trichlorofluoromethane	1.881	101	184345	9.397	ppbv	99
12) 1,1,2-Trichlorotrifluoro...	2.143	101	143859	9.200	ppbv	99
13) Ethanol	1.722	45	6106	7.035	ppbv	93
14) Bromoethene	1.784	108	52923	9.350	ppbv	97
15) Acetone	1.839	43	140292	7.817	ppbv	99
16) 1,3-Butadiene	1.612	39	68285	8.393	ppbv	98
17) tert-Butyl alcohol	2.043	59	179835	8.449	ppbv	99
18) 1,1-Dichloroethene	2.036	96	65451	9.521	ppbv	94
19) Isopropyl Alcohol	1.887	45	94719	8.836	ppbv	100
20) Methylene Chloride	2.065	84	57845	7.694	ppbv	95
21) Allyl Chloride	2.101	41	115088	9.077	ppbv	94
22) trans-1,2-Dichloroethene	2.344	96	72886	9.164	ppbv	95
23) Vinyl Acetate	2.467	43	223223	9.046	ppbv	99
24) 1,1-Dichloroethane	2.412	63	147636	9.295	ppbv	98
25) Ethyl Acetate	2.839	43	395790	9.112	ppbv	99
26) Hexane	2.833	57	183016	9.128	ppbv	97
27) Carbon Disulfide	2.153	76	183662	9.413	ppbv	98
28) Methyl tert-Butyl Ether	2.444	73	87913	8.599	ppbv	94
29) Chloroform	2.852	83	275819	9.635	ppbv	99
30) Cyclohexane	3.862	84	158629	9.024	ppbv	97
31) cis-1,2-Dichloroethene	2.726	61	183248	9.150	ppbv	99
32) 1,1,1-Trichloroethane	3.373	97	282219	9.329	ppbv	99
34) 2-Butanone	2.561	43	259023	9.624	ppbv	100
35) Carbon Tetrachloride	3.771	117	279479	10.171	ppbv	99
36) Benzene	3.664	78	374488	9.812	ppbv	98
37) 1,2-Dichloroethane	3.224	62	215395	10.802	ppbv	98
38) Trichloroethene	4.554	130	161583	9.270	ppbv	99
39) 1,2-Dichloropropane	4.325	63	135983	9.755	ppbv	96
40) 1,4-Dioxane	4.590	88	58014	8.752	ppbv #	89
41) Tetrahydrofuran	3.059	42	142703	9.510	ppbv	98
42) Bromodichloromethane	4.499	83	306223	10.306	ppbv	96
43) Methyl Methacrylate	4.891	69	144346	9.180	ppbv	97
44) 2,2,4-Trimethylpentane	4.648	57	613984	9.478	ppbv	99
45) t-1,3-Dichloropropene	6.425	75	169217	9.536	ppbv	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042866.D
 Acq On : 21 Aug 2025 13:57
 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 :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:22:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

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

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	216363	9.786	ppbv	93
47) 1,1,2-Trichloroethane	6.590	97	145986	9.884	ppbv	95
48) Dibromochloromethane	7.399	129	240130	10.047	ppbv	99
49) Bromoform	9.490	173	190549	9.668	ppbv	99
50) 4-Methyl-2-Pentanone	5.762	43	346674	9.530	ppbv	100
51) 2-Hexanone	7.445	43	279062	9.748	ppbv #	100
52) Tetrachloroethene	8.235	164	118856	8.608	ppbv	91
53) Toluene	6.946	91	425137	9.369	ppbv	99
54) 1,2-Dibromoethane	7.662	107	212261	9.834	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.934	131	174517	9.737	ppbv	99
57) Chlorobenzene	8.930	112	324377	9.843	ppbv	97
58) Ethyl Benzene	9.364	91	603652	9.870	ppbv	99
59) m/p-Xylene	9.562	91	952988m	19.878	ppbv	
60) o-Xylene	9.973	91	471605	9.779	ppbv	100
61) Styrene	9.879	104	217205	9.613	ppbv	100
62) Isopropylbenzene	10.549	105	683663	9.700	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.973	83	254261	9.587	ppbv	99
64) n-propylbenzene	10.995	120	173123	9.628	ppbv	94
65) tert-Butylbenzene	11.539	119	581575	9.361	ppbv	97
66) Benzyl Chloride	11.620	91	62086	7.872	ppbv	98
67) sec-Butylbenzene	11.772	105	840030	9.632	ppbv	99
69) p-Isopropyltoluene	11.931	119	692260	9.246	ppbv	98
70) n-Butylbenzene	12.287	91	723303	9.741	ppbv	98
71) 2-Chlorotoluene	10.908	91	530205	9.689	ppbv	97
72) 4-Ethyltoluene	11.131	105	574460	9.826	ppbv	99
73) 1,3,5-Trimethylbenzene	11.209	105	477078	9.596	ppbv	96
74) 1,2,4-Trimethylbenzene	11.542	105	522237	9.570	ppbv	97
75) 1,3-Dichlorobenzene	11.614	146	293599	9.464	ppbv	98
76) 1,4-Dichlorobenzene	11.678	146	294847	9.398	ppbv	99
77) 1,2-Dichlorobenzene	11.953	146	285521	9.400	ppbv	99
78) Hexachloro-1,3-Butadiene	13.886	225	191515	7.693	ppbv	100
79) Naphthalene	13.517	128	470360	9.508	ppbv	98
80) Naphthalene,2-methyl-	14.462	142	146081	7.902	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	229848	9.244	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042866.D
 Acq On : 21 Aug 2025 13:57
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 22 01:22:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	102	0.00
2 T	Dichlorodifluoromethane	1.466	1.396	4.8	106	0.00
3	Chlorodifluoromethane	1.620	1.549	4.4	105	0.00
4	Chloromethane	0.591	0.551	6.8	105	0.00
5 T	Vinyl Chloride	0.582	0.489	16.0	99	0.00
6 T	Bromomethane	0.233	0.197	15.5	99	0.00
7	Chloroethane	0.227	0.203	10.6	102	0.00
8 T	Dichlorotetrafluoroethane	1.199	1.114	7.1	101	0.00
9 T	Propene	0.700	0.603	13.9	94	0.00
10 T	Heptane	1.874	1.655	11.7	98	0.00
11 T	Trichlorofluoromethane	1.446	1.359	6.0	109	0.00
12 T	1,1,2-Trichlorotrifluoroeth	1.152	1.060	8.0	103	0.00
13	Ethanol	0.064	0.045#	29.7	99	0.00
14 T	Bromoethene	0.417	0.390	6.5	104	0.00
15 T	Acetone	1.323	1.034	21.8	111	0.00
16 T	1,3-Butadiene	0.600	0.503	16.2	103	0.00
17	tert-Butyl alcohol	1.569	1.325	15.6	99	0.00
18 T	1,1-Dichloroethene	0.507	0.482	4.9	105	0.00
19 T	Isopropyl Alcohol	0.790	0.698	11.6	110	0.00
20 T	Methylene Chloride	0.554	0.426	23.1	105	0.00
21 T	Allyl Chloride	0.935	0.848	9.3	102	0.00
22 T	trans-1,2-Dichloroethene	0.586	0.537	8.4	102	0.00
23 T	Vinyl Acetate	1.819	1.645	9.6	101	0.00
24 T	1,1-Dichloroethane	1.171	1.088	7.1	107	0.00
25 T	Ethyl Acetate	3.202	2.917	8.9	101	0.00
26 T	Hexane	1.478	1.349	8.7	99	0.00
27 T	Carbon Disulfide	1.438	1.354	5.8	105	0.00
28 T	Methyl tert-Butyl Ether	0.754	0.648	14.1	100	0.00
29 T	Chloroform	2.110	2.033	3.6	107	0.00
30 T	Cyclohexane	1.296	1.169	9.8	98	0.00
31 T	cis-1,2-Dichloroethene	1.476	1.351	8.5	102	0.00
32 T	1,1,1-Trichloroethane	2.230	2.080	6.7	106	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.675	0.650	3.7	103	0.00
35 T	Carbon Tetrachloride	0.689	0.701	-1.7	106	0.00
36 T	Benzene	0.958	0.940	1.9	99	0.00
37 T	1,2-Dichloroethane	0.500	0.540	-8.0	108	0.00
38 T	Trichloroethene	0.437	0.405	7.3	98	0.00
39 T	1,2-Dichloropropane	0.350	0.341	2.6	101	0.00
40 T	1,4-Dioxane	0.166	0.146	12.0	95	0.00
41 T	Tetrahydrofuran	0.376	0.358	4.8	97	0.00
42 T	Bromodichloromethane	0.745	0.768	-3.1	105	0.00
43	Methyl Methacrylate	0.394	0.362	8.1	95	0.00
44 T	2,2,4-Trimethylpentane	1.625	1.540	5.2	98	0.00
45 T	t-1,3-Dichloropropene	0.445	0.425	4.5	95	0.00
46 T	cis-1,3-Dichloropropene	0.555	0.543	2.2	97	0.00
47 T	1,1,2-Trichloroethane	0.371	0.366	1.3	103	0.00
48 T	Dibromochloromethane	0.600	0.602	-0.3	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042866.D
 Acq On : 21 Aug 2025 13:57
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 22 01:22:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	0.495	0.478	3.4	94	0.00
50 T	4-Methyl-2-Pentanone	0.913	0.870	4.7	95	0.00
51 T	2-Hexanone	0.718	0.700	2.5	97	0.00
52 T	Tetrachloroethene	0.346	0.298	13.9	92	0.00
53 T	Toluene	1.138	1.067	6.2	96	0.00
54 T	1,2-Dibromoethane	0.542	0.533	1.7	101	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.517	0.504	2.5	99	0.00
57 T	Chlorobenzene	0.951	0.936	1.6	100	0.00
58 T	Ethyl Benzene	1.765	1.742	1.3	100	0.00
59 T	m/p-Xylene	1.383	1.375	0.6	100	0.02
60 T	o-Xylene	1.391	1.361	2.2	101	0.00
61 T	Styrene	0.652	0.627	3.8	96	0.00
62	Isopropylbenzene	2.033	1.973	3.0	100	0.00
63 T	1,1,2,2-Tetrachloroethane	0.765	0.734	4.1	102	0.00
64	n-propylbenzene	0.519	0.500	3.7	98	0.00
65	tert-Butylbenzene	1.793	1.678	6.4	98	0.00
66 T	Benzyl Chloride	0.228	0.179	21.5	74	0.00
67	sec-Butylbenzene	2.516	2.424	3.7	101	0.00
68 S	1-Bromo-4-Fluorobenzene	0.750	0.783	-4.4	97	0.00
69	p-Isopropyltoluene	2.160	1.997	7.5	98	0.00
70	n-Butylbenzene	2.142	2.087	2.6	101	0.00
71	2-Chlorotoluene	1.579	1.530	3.1	101	0.00
72 T	4-Ethyltoluene	1.687	1.657	1.8	99	0.00
73 T	1,3,5-Trimethylbenzene	1.434	1.376	4.0	100	0.00
74 T	1,2,4-Trimethylbenzene	1.574	1.507	4.3	101	0.00
75 T	1,3-Dichlorobenzene	0.895	0.847	5.4	95	0.00
76 T	1,4-Dichlorobenzene	0.905	0.851	6.0	96	0.00
77 T	1,2-Dichlorobenzene	0.876	0.824	5.9	99	0.00
78 T	Hexachloro-1,3-Butadiene	0.718	0.553	23.0	90	0.00
79 T	Naphthalene	1.427	1.357	4.9	97	0.00
80 T	Naphthalene,2-methyl-	0.533	0.421	21.0	83	0.00
81 T	1,2,4-Trichlorobenzene	0.717	0.663	7.5	94	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042866.D
 Acq On : 21 Aug 2025 13:57
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 22 01:22:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	102	0.00
2 T	Dichlorodifluoromethane	10.000	9.523	4.8	106	0.00
3	Chlorodifluoromethane	10.000	9.559	4.4	105	0.00
4	Chloromethane	10.000	9.311	6.9	105	0.00
5 T	Vinyl Chloride	10.000	8.401	16.0	99	0.00
6 T	Bromomethane	10.000	8.444	15.6	99	0.00
7	Chloroethane	10.000	8.926	10.7	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.290	7.1	101	0.00
9 T	Propene	10.000	8.623	13.8	94	0.00
10 T	Heptane	10.000	8.830	11.7	98	0.00
11 T	Trichlorofluoromethane	10.000	9.397	6.0	109	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	9.200	8.0	103	0.00
13	Ethanol	10.000	7.035	29.6	99	0.00
14 T	Bromoethene	10.000	9.350	6.5	104	0.00
15 T	Acetone	10.000	7.817	21.8	111	0.00
16 T	1,3-Butadiene	10.000	8.393	16.1	103	0.00
17	tert-Butyl alcohol	10.000	8.449	15.5	99	0.00
18 T	1,1-Dichloroethene	10.000	9.521	4.8	105	0.00
19 T	Isopropyl Alcohol	10.000	8.836	11.6	110	0.00
20 T	Methylene Chloride	10.000	7.694	23.1	105	0.00
21 T	Allyl Chloride	10.000	9.077	9.2	102	0.00
22 T	trans-1,2-Dichloroethene	10.000	9.164	8.4	102	0.00
23 T	Vinyl Acetate	10.000	9.046	9.5	101	0.00
24 T	1,1-Dichloroethane	10.000	9.295	7.1	107	0.00
25 T	Ethyl Acetate	10.000	9.112	8.9	101	0.00
26 T	Hexane	10.000	9.128	8.7	99	0.00
27 T	Carbon Disulfide	10.000	9.413	5.9	105	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.599	14.0	100	0.00
29 T	Chloroform	10.000	9.635	3.7	107	0.00
30 T	Cyclohexane	10.000	9.024	9.8	98	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.150	8.5	102	0.00
32 T	1,1,1-Trichloroethane	10.000	9.329	6.7	106	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	0.00
34 T	2-Butanone	10.000	9.624	3.8	103	0.00
35 T	Carbon Tetrachloride	10.000	10.171	-1.7	106	0.00
36 T	Benzene	10.000	9.812	1.9	99	0.00
37 T	1,2-Dichloroethane	10.000	10.802	-8.0	108	0.00
38 T	Trichloroethene	10.000	9.270	7.3	98	0.00
39 T	1,2-Dichloropropane	10.000	9.755	2.4	101	0.00
40 T	1,4-Dioxane	10.000	8.752	12.5	95	0.00
41 T	Tetrahydrofuran	10.000	9.510	4.9	97	0.00
42 T	Bromodichloromethane	10.000	10.306	-3.1	105	0.00
43	Methyl Methacrylate	10.000	9.180	8.2	95	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.478	5.2	98	0.00
45 T	t-1,3-Dichloropropene	10.000	9.536	4.6	95	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.786	2.1	97	0.00
47 T	1,1,2-Trichloroethane	10.000	9.884	1.2	103	0.00
48 T	Dibromochloromethane	10.000	10.047	-0.5	99	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042866.D
 Acq On : 21 Aug 2025 13:57
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Aug 22 01:22:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 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	9.668	3.3	94	0.00
50 T	4-Methyl-2-Pentanone	10.000	9.530	4.7	95	0.00
51 T	2-Hexanone	10.000	9.748	2.5	97	0.00
52 T	Tetrachloroethene	10.000	8.608	13.9	92	0.00
53 T	Toluene	10.000	9.369	6.3	96	0.00
54 T	1,2-Dibromoethane	10.000	9.834	1.7	101	0.00

55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.737	2.6	99	0.00
57 T	Chlorobenzene	10.000	9.843	1.6	100	0.00
58 T	Ethyl Benzene	10.000	9.870	1.3	100	0.00
59 T	m/p-Xylene	20.000	19.878	0.6	100	0.02
60 T	o-Xylene	10.000	9.779	2.2	101	0.00
61 T	Styrene	10.000	9.613	3.9	96	0.00
62	Isopropylbenzene	10.000	9.700	3.0	100	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.587	4.1	102	0.00
64	n-propylbenzene	10.000	9.628	3.7	98	0.00
65	tert-Butylbenzene	10.000	9.361	6.4	98	0.00
66 T	Benzyl Chloride	10.000	7.872	21.3	74	0.00
67	sec-Butylbenzene	10.000	9.632	3.7	101	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.444	-4.4	97	0.00
69	p-Isopropyltoluene	10.000	9.246	7.5	98	0.00
70	n-Butylbenzene	10.000	9.741	2.6	101	0.00
71	2-Chlorotoluene	10.000	9.689	3.1	101	0.00
72 T	4-Ethyltoluene	10.000	9.826	1.7	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.596	4.0	100	0.00
74 T	1,2,4-Trimethylbenzene	10.000	9.570	4.3	101	0.00
75 T	1,3-Dichlorobenzene	10.000	9.464	5.4	95	0.00
76 T	1,4-Dichlorobenzene	10.000	9.398	6.0	96	0.00
77 T	1,2-Dichlorobenzene	10.000	9.400	6.0	99	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	7.693	23.1	90	0.00
79 T	Naphthalene	10.000	9.508	4.9	97	0.00
80 T	Naphthalene,2-methyl-	10.000	7.902	21.0	83	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.244	7.6	94	0.00

(#) = Out of Range

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



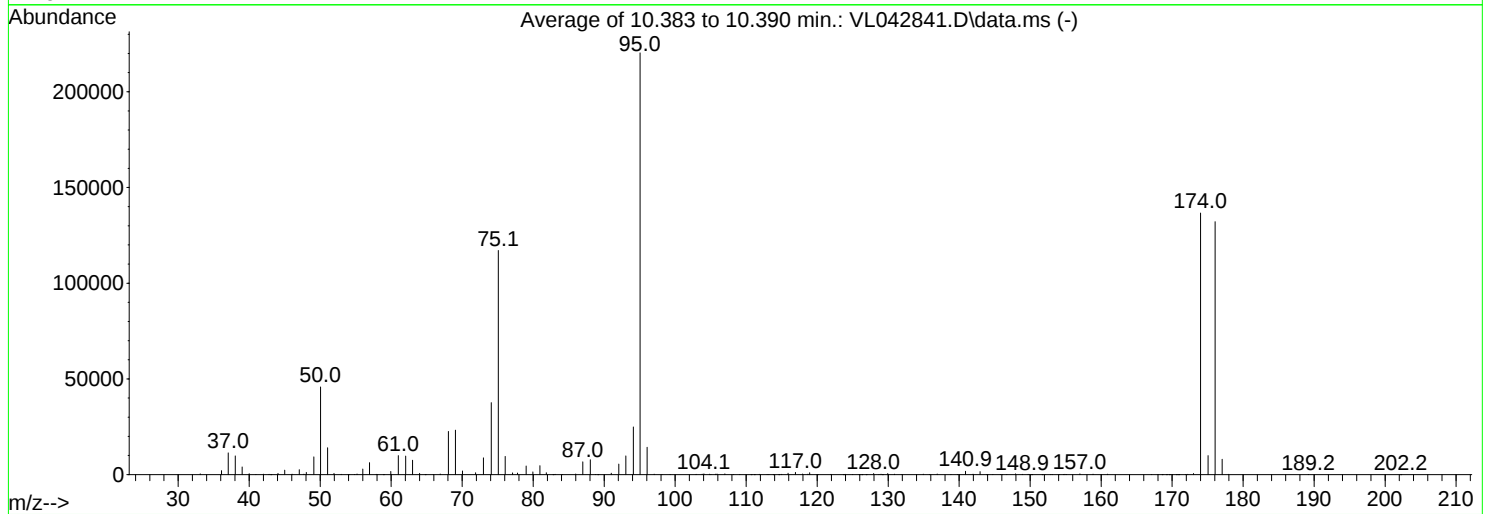
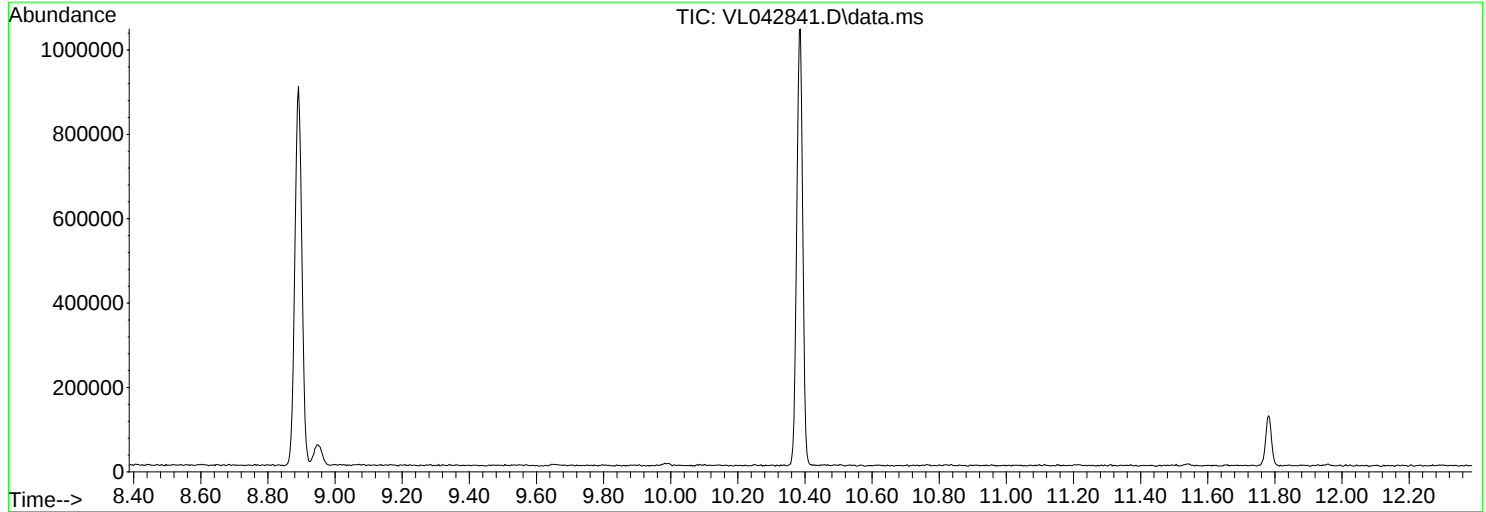
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081325\
Data File : VL042841.D
Acq On : 13 Aug 2025 07:45
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3165

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	45819	PASS
75	95	30	66	53.1	117101	PASS
95	95	100	100	100.0	220336	PASS
96	95	5	9	6.5	14308	PASS
173	174	0.00	2	0.4	581	PASS
174	95	50	120	62.0	136669	PASS
175	174	4	9	7.3	9984	PASS
176	174	93	101	96.7	132147	PASS
177	176	5	9	6.1	8054	PASS

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	435	45.00	2327	54.85	120	64.00	681
36.10	2065	46.05	279	55.20	357	64.80	30
37.05	11354	47.05	2620	56.00	2948	65.95	9
38.05	9819	47.70	280	56.95	6253	66.90	32
39.00	4004	48.05	1145	57.90	171	68.05	22548
40.00	533	49.10	9251	58.10	91	69.05	23213
40.95	49	50.05	45819	58.90	22	70.05	1937
42.00	227	51.05	14036	59.95	1687	71.90	1041
42.80	161	51.95	671	61.00	9948	73.00	8793
43.05	39	52.95	188	62.05	9678	74.10	37600
44.05	666	53.95	37	63.00	7566	75.10	117101

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
76.05	9555	87.00	6682	98.15	54	109.10	102
77.10	918	88.05	7760	99.30	64	110.70	18
77.80	815	88.80	77	102.95	130	111.15	1
79.00	4555	89.10	20	103.80	231	111.85	129
79.95	1463	91.00	725	104.05	430	112.95	69
80.95	4661	92.05	5511	104.85	224	113.20	121
81.85	1009	93.05	9746	105.05	89	113.80	17
82.80	45	94.10	24915	105.70	222	114.60	40
83.10	154	95.05	220336	105.90	378	115.00	164
84.10	59	96.05	14308	107.00	405	115.90	792
86.00	343	97.05	232	108.25	56	116.95	1160

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
117.95	357	127.95	629	138.85	68	147.95	426
118.70	248	128.70	103	139.80	86	148.90	159
118.95	989	129.00	282	140.05	107	149.70	172
120.00	35	129.20	46	140.90	1771	149.90	92
121.95	196	129.95	557	141.95	222	150.20	25
123.70	34	130.90	241	142.95	1603	151.70	42
124.00	187	131.95	49	143.90	46	152.10	65
125.00	93	134.00	75	144.75	112	152.90	115
125.90	42	134.95	263	145.80	52	153.10	90
126.30	20	135.85	80	146.05	101	154.10	102
126.90	38	136.90	300	146.70	83	154.70	65

Average of 10.383 to 10.390 min.: VL042841.D\data.ms

BFB

Modified:subtracted

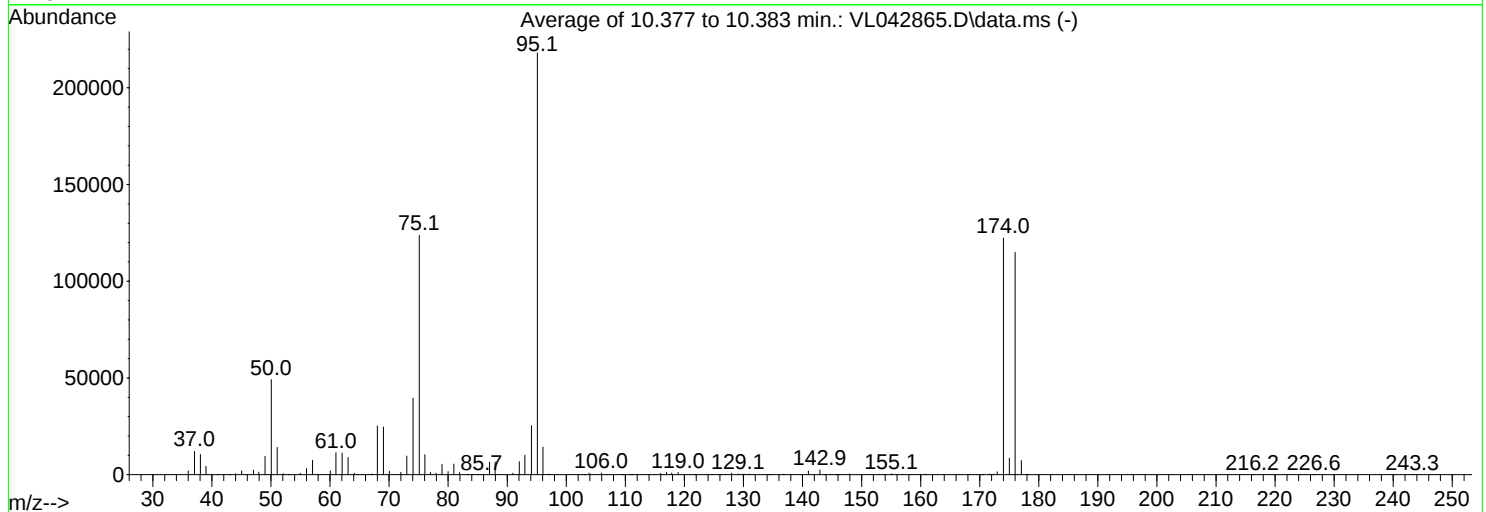
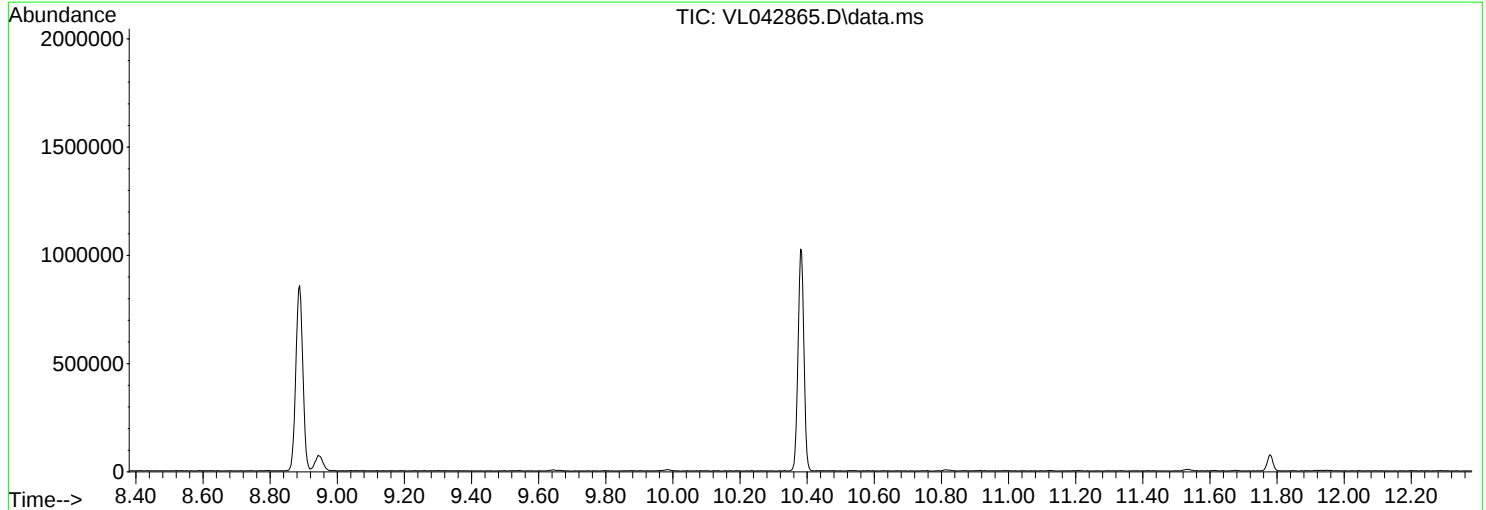
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.90	185	170.60	19	189.20	100		
155.10	115	170.90	27	202.20	25		
157.00	453	171.05	82				
158.85	271	171.90	66				
160.90	247	172.20	170				
167.10	83	173.00	581				
168.00	69	174.00	136669				
168.60	43	175.05	9984				
169.20	47	176.05	132147				
169.60	20	177.05	8054				
170.05	75	177.95	182				

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042865.D
Acq On : 21 Aug 2025 12:15
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\VL081325AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Thu Aug 14 02:12:54 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	22.5	49152	PASS
75	95	30	66	56.7	123755	PASS
95	95	100	100	100.0	218091	PASS
96	95	5	9	6.5	14275	PASS
173	174	0.00	2	1.2	1509	PASS
174	95	50	120	56.1	122349	PASS
175	174	4	9	7.0	8540	PASS
176	174	93	101	94.0	114984	PASS
177	176	5	9	6.3	7278	PASS

Average of 10.377 to 10.383 min.: VL042865.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	1901	47.95	1328	60.05	1973	69.05	2465
37.05	12011	49.00	9457	61.00	11325	70.05	1711
38.05	10425	50.05	49152	62.05	11161	71.00	111
39.00	4299	51.05	14034	63.05	8883	72.00	125
40.90	20	51.90	93	64.15	708	73.00	9616
41.95	108	52.10	469	64.80	50	74.05	39549
42.95	7	52.90	39	65.80	79	75.10	123755
44.00	506	54.95	762	66.60	174	76.05	10332
45.05	1989	56.00	3135	67.00	328	77.00	1141
45.95	184	57.05	7438	67.20	164	77.95	723
47.05	2284	57.95	273	68.00	25117	78.95	5375

Average of 10.377 to 10.383 min.: VL042865.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
80.00	1537	90.95	856	104.10	270	114.95	207
80.95	5449	92.05	6707	104.85	205	116.00	676
81.95	1093	93.00	10074	105.95	864	117.00	1123
83.00	126	94.10	25357	106.80	73	117.85	836
83.30	35	95.10	218091	107.05	99	118.95	1136
84.00	42	96.05	14275	109.60	29	119.90	32
85.00	28	96.90	258	110.05	137	121.70	35
85.65	57	97.20	238	110.80	92	123.75	74
86.00	231	102.75	51	111.05	45	124.70	53
87.00	6369	103.10	39	112.00	201	125.75	112
87.95	6531	103.85	828	112.70	119	126.10	28

Average of 10.377 to 10.383 min.: VL042865.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
126.95	76	139.05	68	146.95	103	166.45	66
127.95	761	139.70	149	147.90	317	168.45	67
129.10	347	141.00	1901	149.10	49	169.50	65
129.80	209	142.05	129	149.95	85	170.40	18
130.10	329	142.95	2388	153.00	151	170.65	80
130.95	330	143.70	58	153.90	30	171.75	327
134.20	26	143.90	49	154.10	66	172.30	194
134.75	151	144.75	211	155.05	393	172.95	1509
135.10	70	145.60	41	156.95	254	174.00	122349
136.70	153	145.85	66	158.95	178	175.00	8540
137.00	199	146.10	43	160.85	256	176.00	114984

Average of 10.377 to 10.383 min.: VL042865.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
177.05	7278						
177.85	114						
178.10	43						
216.20	17						
226.60	21						
243.30	17						

Instrument :

MSVOA_L

ClientSampleId :

BFB

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	271 NASSAU AVE BROOKLYN,NY	Date Received:	
Client Sample ID:	VL0821ABL01	SDG No.:	Q2898
Lab Sample ID:	VL0821ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042867.D	1		08/21/25 14:43	VL082125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.080	ug/m3
142-82-5	Heptane	0.17	0.70	U	0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	0.15	0.59	U	0.59	1.98	ug/m3
110-82-7	Cyclohexane	0.22	0.76	U	0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.10	0.40	U	0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	0.14	0.65	U	0.65	2.34	ug/m3
71-43-2	Benzene	0.080	0.26	U	0.26	1.60	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
108-88-3	Toluene	0.16	0.60	U	0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	0.19	0.83	U	0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	0.41	1.78	U	1.78	4.34	ug/m3
95-47-6	o-Xylene	0.21	0.91	U	0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	0.18	0.88	U	0.88	2.46	ug/m3
91-20-3	Naphthalene	0.010	0.050	U	0.050	0.52	ug/m3
110-54-3	Hexane	0.16	0.56	U	0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.1			65 - 135	101%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	130000		2.793			
540-36-3	1,4-Difluorobenzene	389000		3.965			
3114-55-4	Chlorobenzene-d5	334000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042867.D
 Acq On : 21 Aug 2025 14:43
 Operator : SY/MD
 Sample : VL0821ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0821ABL01

Quant Time: Aug 22 01:23:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 14 02:12:54 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	130204	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	388987	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	334020	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	253717	10.128	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

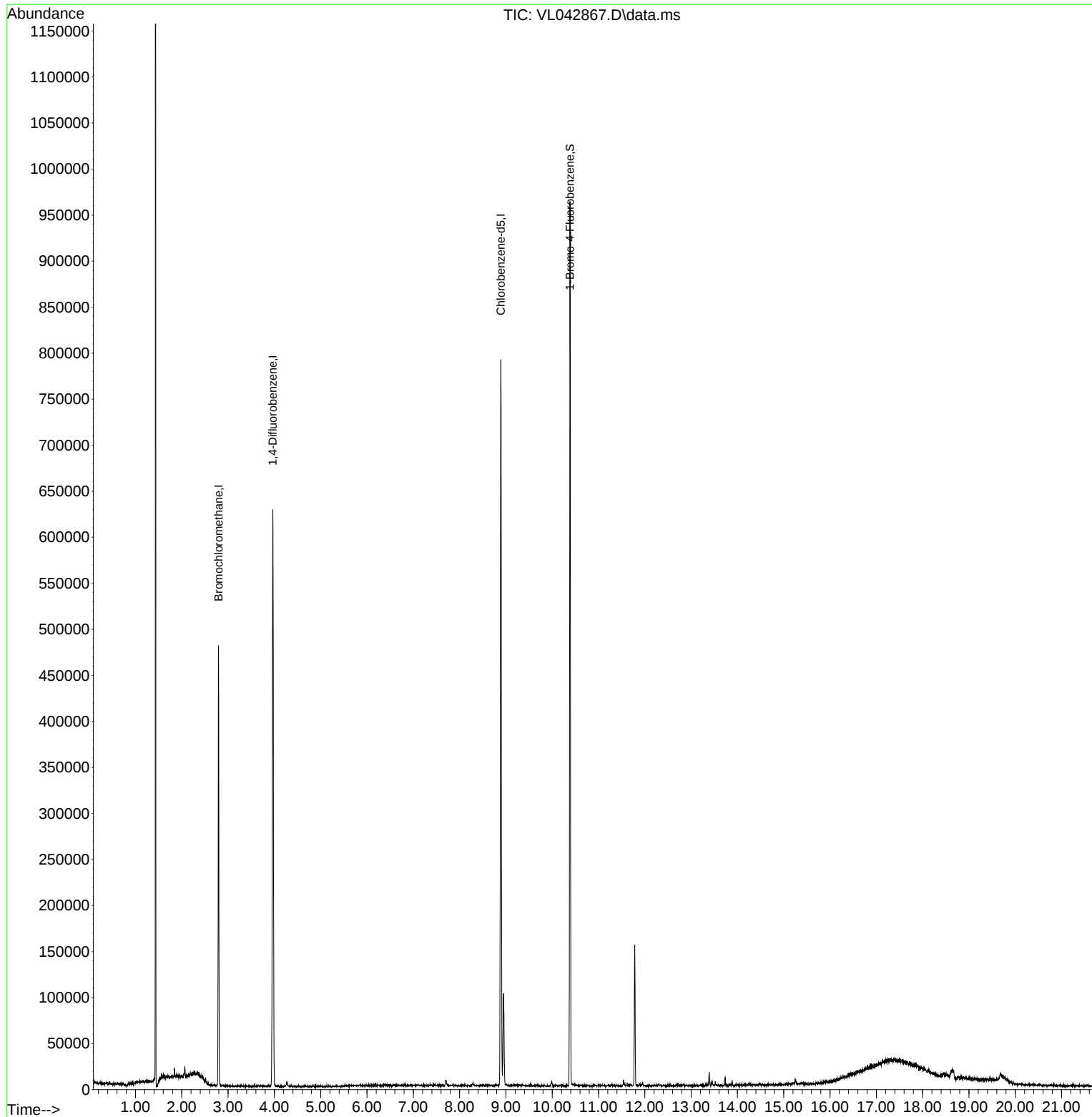
Target Compounds	Qvalue

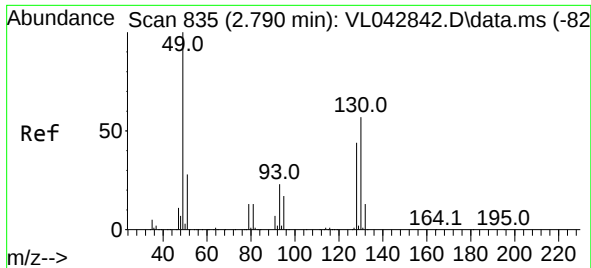
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042867.D
Acq On : 21 Aug 2025 14:43
Operator : SY/MD
Sample : VL0821ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0821ABL01

Quant Time: Aug 22 01:23:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration

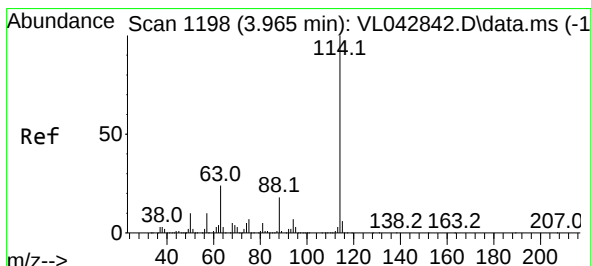
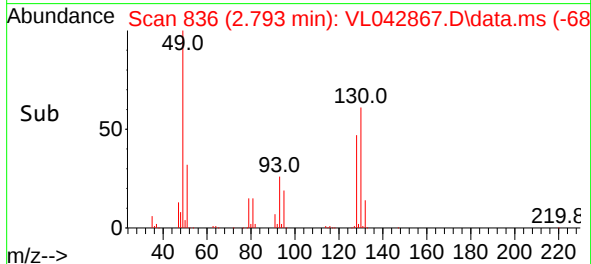
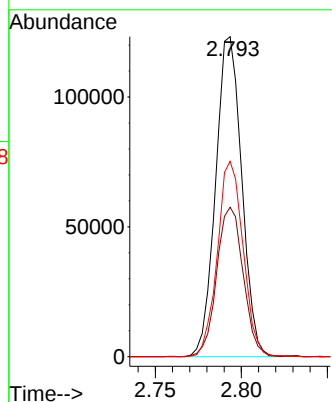
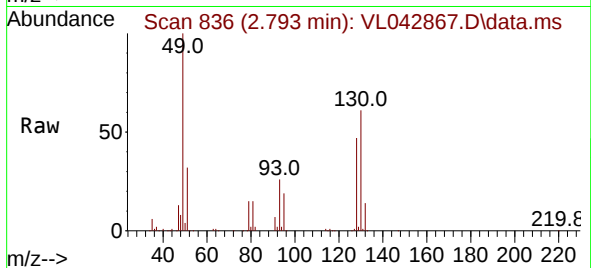




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 835
 Delta R.T. 0.003 min
 Lab File: VL042867.D
 Acq: 21 Aug 2025 14:43

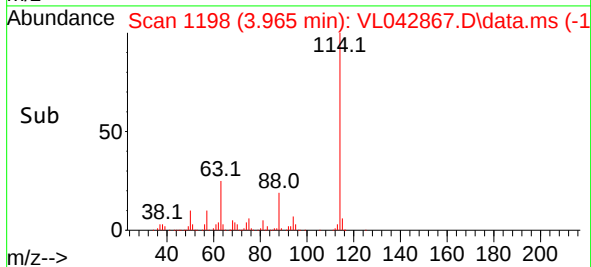
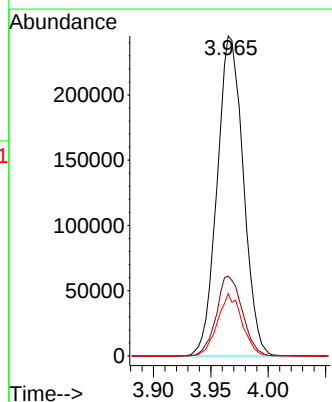
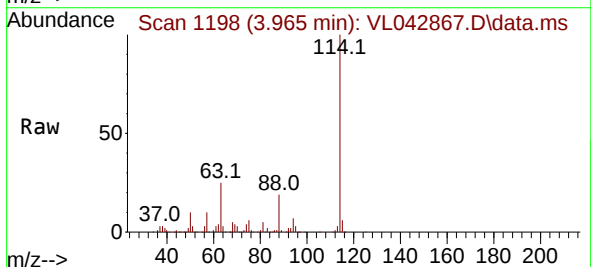
Instrument :
 MSVOA_1
 ClientSampleId :
 VL0821ABL01

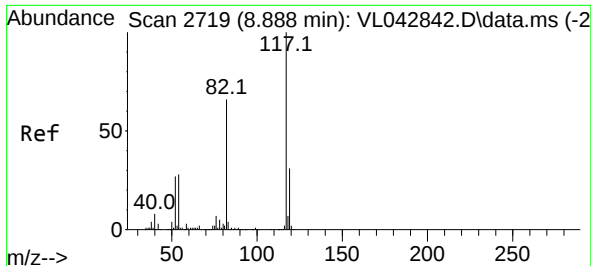
Tgt Ion: 49 Resp: 130204
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.7 71.1
 130 60.1 30.6 91.6



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.965 min Scan# 1198
 Delta R.T. -0.000 min
 Lab File: VL042867.D
 Acq: 21 Aug 2025 14:43

Tgt Ion: 114 Resp: 388987
 Ion Ratio Lower Upper
 114 100
 63 24.8 19.7 29.5
 88 18.2 14.4 21.6

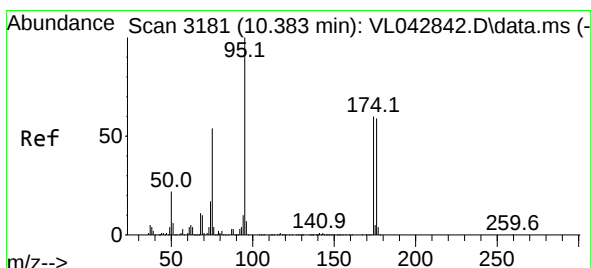
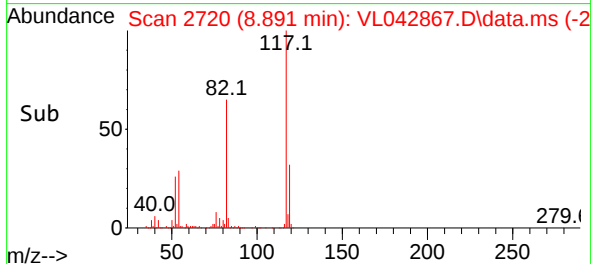
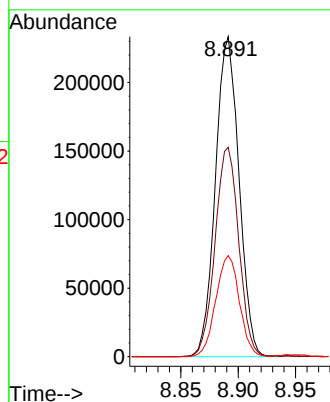
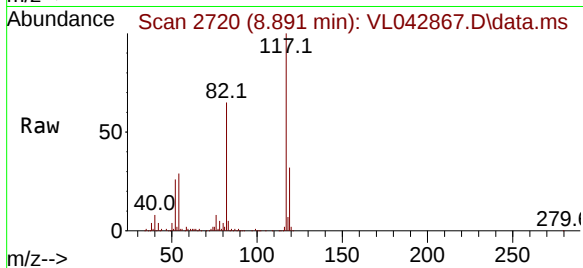




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

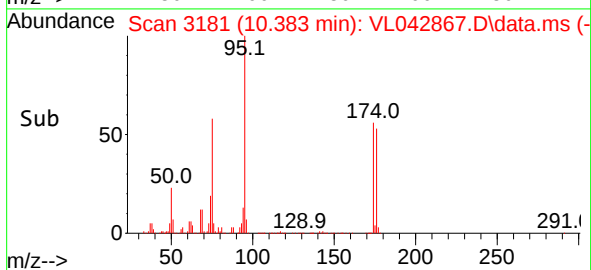
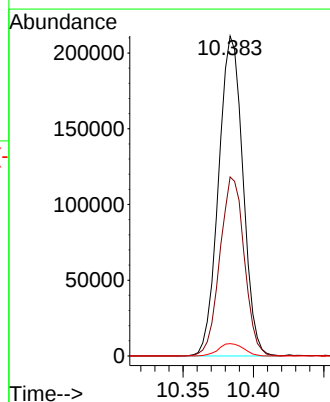
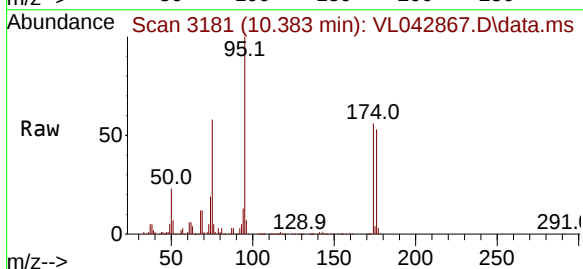
Instrument :
MSVOA_L
ClientSampleId :
VL0821ABL01

Tgt Ion:117 Resp: 334020
Ion Ratio Lower Upper
117 100
82 65.9 54.6 81.8
119 31.6 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.128 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.000 min
Lab File: VL042867.D
Acq: 21 Aug 2025 14:43

Tgt Ion: 95 Resp: 253717
Ion Ratio Lower Upper
95 100
174 56.3 48.4 72.6
175 4.0 3.8 5.8



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	271 NASSAU AVE BROOKLYN,NY	Date Received:	
Client Sample ID:	VL0821ABS01	SDG No.:	Q2898
Lab Sample ID:	VL0821ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group2
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042868.D	1		08/21/25 16:24	VL082125

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	8.80	22.5		0.080	0.080	ug/m3
142-82-5	Heptane	9.10	37.3		0.70	2.05	ug/m3
75-35-4	1,1-Dichloroethene	10.1	40.0		0.59	1.98	ug/m3
110-82-7	Cyclohexane	9.40	32.4		0.76	1.72	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.50	37.7		0.40	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.60	52.4		0.11	0.16	ug/m3
540-84-1	2,2,4-Trimethylpentane	9.80	45.8		0.65	2.34	ug/m3
71-43-2	Benzene	10.1	32.3		0.26	1.60	ug/m3
79-01-6	Trichloroethene	9.80	52.7		0.11	0.16	ug/m3
108-88-3	Toluene	9.70	36.5		0.60	1.88	ug/m3
127-18-4	Tetrachloroethene	8.80	59.7		0.14	0.20	ug/m3
100-41-4	Ethyl Benzene	10.0	43.4		0.83	2.17	ug/m3
179601-23-1	m/p-Xylene	20.4	88.6		1.78	4.34	ug/m3
95-47-6	o-Xylene	10.1	43.9		0.91	2.17	ug/m3
108-67-8	1,3,5-Trimethylbenzene	9.90	48.7		0.88	2.46	ug/m3
95-63-6	1,2,4-Trimethylbenzene	9.80	48.2		0.88	2.46	ug/m3
91-20-3	Naphthalene	9.80	51.4		0.050	0.52	ug/m3
110-54-3	Hexane	9.50	33.5		0.56	1.76	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	129000		2.793			
540-36-3	1,4-Difluorobenzene	381000		3.965			
3114-55-4	Chlorobenzene-d5	329000		8.891			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042868.D
 Acq On : 21 Aug 2025 16:24
 Operator : SY/MD
 Sample : VL0821ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0821ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:23:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:23:56 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.793	49	129175	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.965	114	381111	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.891	117	329136	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 259863 10.527 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 105.300%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	187648	9.912	ppbv	98
3) Chlorodifluoromethane	1.479	51	207312	9.907	ppbv	98
4) Chloromethane	1.534	50	71720	9.388	ppbv	99
5) Vinyl Chloride	1.583	62	66037	8.777	ppbv	99
6) Bromomethane	1.670	94	28024	9.315	ppbv	92
7) Chloroethane	1.706	64	27369	9.315	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	153444	9.905	ppbv	98
9) Propene	1.486	41	78912	8.732	ppbv	96
10) Heptane	4.991	43	219797	9.081	ppbv	99
11) Trichlorofluoromethane	1.881	101	187585	10.043	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.143	101	145290	9.759	ppbv	99
13) Ethanol	1.725	45	6500	7.866	ppbv	96
14) Bromoethene	1.784	108	54170	10.051	ppbv	100
15) Acetone	1.839	43	142967	8.367	ppbv	99
16) 1,3-Butadiene	1.612	39	69767	9.006	ppbv	96
17) tert-Butyl alcohol	2.043	59	177633	8.766	ppbv	99
18) 1,1-Dichloroethene	2.039	96	66095	10.099	ppbv	98
19) Isopropyl Alcohol	1.887	45	91925	9.007	ppbv	97
20) Methylene Chloride	2.065	84	56441	7.885	ppbv	91
21) Allyl Chloride	2.101	41	116767	9.673	ppbv	97
22) trans-1,2-Dichloroethene	2.347	96	75407	9.959	ppbv	99
23) Vinyl Acetate	2.467	43	217643	9.263	ppbv	99
24) 1,1-Dichloroethane	2.415	63	147252	9.738	ppbv	97
25) Ethyl Acetate	2.839	43	391006	9.455	ppbv	99
26) Hexane	2.832	57	180474	9.454	ppbv	96
27) Carbon Disulfide	2.156	76	182512	9.825	ppbv	99
28) Methyl tert-Butyl Ether	2.444	73	91041	9.353	ppbv	92
29) Chloroform	2.855	83	272966	10.015	ppbv	98
30) Cyclohexane	3.865	84	156618	9.358	ppbv	99
31) cis-1,2-Dichloroethene	2.726	61	181954	9.543	ppbv	100
32) 1,1,1-Trichloroethane	3.376	97	276651	9.605	ppbv	99
34) 2-Butanone	2.560	43	256883	9.982	ppbv	100
35) Carbon Tetrachloride	3.771	117	269164	10.245	ppbv	96
36) Benzene	3.664	78	370291	10.146	ppbv	99
37) 1,2-Dichloroethane	3.224	62	210547	11.043	ppbv	97
38) Trichloroethene	4.557	130	162981	9.779	ppbv	98
39) 1,2-Dichloropropane	4.321	63	134416	10.085	ppbv	96
40) 1,4-Dioxane	4.590	88	58064	9.161	ppbv #	91
41) Tetrahydrofuran	3.059	42	142741	9.949	ppbv	99
42) Bromodichloromethane	4.499	83	302898	10.661	ppbv	96
43) Methyl Methacrylate	4.888	69	141681	9.424	ppbv	97
44) 2,2,4-Trimethylpentane	4.651	57	606952	9.799	ppbv	99
45) t-1,3-Dichloropropene	6.431	75	169529	9.992	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
 Data File : VL042868.D
 Acq On : 21 Aug 2025 16:24
 Operator : SY/MD
 Sample : VL0821ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0821ABS01

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
 Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:23:56 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 22 01:23:56 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.613	75	208849	9.879	ppbv	96
47) 1,1,2-Trichloroethane	6.597	97	140526	9.951	ppbv	94
48) Dibromochloromethane	7.396	129	234624	10.267	ppbv	100
49) Bromoform	9.493	173	185144	9.824	ppbv	99
50) 4-Methyl-2-Pentanone	5.758	43	342721	9.853	ppbv	98
51) 2-Hexanone	7.445	43	272084	9.940	ppbv #	98
52) Tetrachloroethene	8.234	164	115888	8.778	ppbv	92
53) Toluene	6.946	91	418783	9.652	ppbv	100
54) 1,2-Dibromoethane	7.665	107	206148	9.989	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.933	131	170516	10.018	ppbv	99
57) Chlorobenzene	8.930	112	310343	9.917	ppbv	97
58) Ethyl Benzene	9.364	91	582812	10.034	ppbv	100
59) m/p-Xylene	9.561	91	926444m	20.350	ppbv	
60) o-Xylene	9.972	91	461704	10.082	ppbv	99
61) Styrene	9.878	104	208048	9.696	ppbv	98
62) Isopropylbenzene	10.545	105	670006	10.011	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.969	83	252269	10.017	ppbv	100
64) n-propylbenzene	10.995	120	167934	9.834	ppbv	92
65) tert-Butylbenzene	11.539	119	571246	9.682	ppbv	96
66) Benzyl Chloride	11.623	91	57933	7.735	ppbv	99
67) sec-Butylbenzene	11.775	105	817985	9.877	ppbv	99
69) p-Isopropyltoluene	11.931	119	680571	9.572	ppbv	98
70) n-Butylbenzene	12.287	91	715452	10.146	ppbv	98
71) 2-Chlorotoluene	10.908	91	515189	9.913	ppbv	98
72) 4-Ethyltoluene	11.131	105	564628	10.170	ppbv	98
73) 1,3,5-Trimethylbenzene	11.209	105	467427	9.901	ppbv	98
74) 1,2,4-Trimethylbenzene	11.542	105	509797	9.838	ppbv	94
75) 1,3-Dichlorobenzene	11.613	146	290683	9.867	ppbv	99
76) 1,4-Dichlorobenzene	11.678	146	289000	9.700	ppbv	98
77) 1,2-Dichlorobenzene	11.953	146	277898	9.634	ppbv	98
78) Hexachloro-1,3-Butadiene	13.885	225	189465	8.014	ppbv	98
79) Naphthalene	13.520	128	462417	9.843	ppbv	99
80) Naphthalene,2-methyl-	14.462	142	143032	8.148	ppbv	98
81) 1,2,4-Trichlorobenzene	13.445	180	225714	9.559	ppbv	98

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

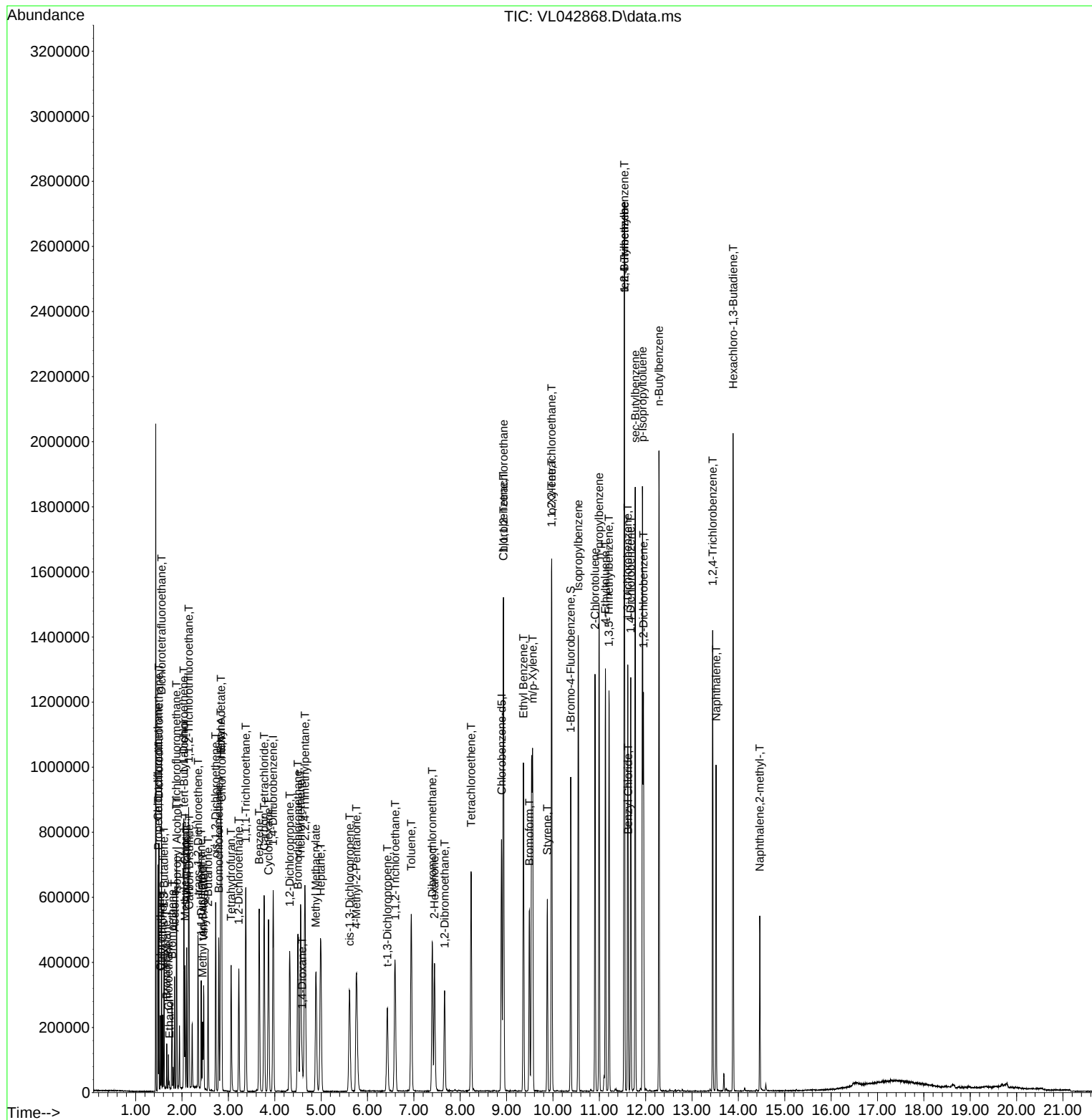
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082125\
Data File : VL042868.D
Acq On : 21 Aug 2025 16:24
Operator : SY/MD
Sample : VL0821ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0821ABS01

Manual Integrations
APPROVED

Reviewed By :Mahesh Dadoda 08/25/2025
Supervised By :Semsettin Yesilyurt 08/25/2025

Quant Time: Aug 22 01:23:56 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL081325AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Thu Aug 14 02:12:54 2025
Response via : Initial Calibration



Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042842.D	m/p-Xylene	SAM	8/14/2025 7:48:06 AM	MMDadoda	8/18/2025 8:42:07 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	1,4-Dioxane	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Ethanol	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	m/p-Xylene	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC002	VL042843.D	Methyl Methacrylate	SAM	8/14/2025 7:48:12 AM	MMDadoda	8/18/2025 8:42:11 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,2-Dichloropropane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	1,4-Dioxane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Ethanol	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	Heptane	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICCC001	VL042844.D	m/p-Xylene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL081325

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL042844.D	Methyl Methacrylate	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC001	VL042844.D	trans-1,2-Dichloroethene	SAM	8/14/2025 7:48:18 AM	MMDadoda	8/18/2025 8:42:13 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,1,2-Trichloroethane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	1,4-Dioxane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	2,2,4-Trimethylpentane	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	4-Methyl-2-Pentanone	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	m/p-Xylene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Methyl Methacrylate	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	t-1,3-Dichloropropene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.5	VL042845.D	Toluene	SAM	8/14/2025 7:49:25 AM	MMDadoda	8/18/2025 8:42:16 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL081325	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042846.D	1,2-Dibromoethane	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Naphthalene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Tetrachloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.1	VL042846.D	Trichloroethene	SAM	8/14/2025 7:48:23 AM	MMDadoda	8/18/2025 8:42:18 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,1-Trichloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	1,1,2,2-Tetrachloroethane	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Carbon Tetrachloride	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Tetrachloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC0.03	VL042847.D	Trichloroethene	SAM	8/14/2025 7:49:29 AM	MMDadoda	8/18/2025 8:42:20 AM	Peak Integrated by Software
VSTDICC015	VL042848.D	m/p-Xylene	SAM	8/14/2025 7:49:35 AM	MMDadoda	8/18/2025 8:42:35 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	cis-1,3-Dichloropropene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDICV010	VL042849.D	m/p-Xylene	SAM	8/14/2025 7:48:28 AM	MMDadoda	8/18/2025 8:42:37 AM	Peak Integrated by Software
VSTDCCC010	VL042864.D	m/p-Xylene	SAM	8/14/2025 7:47:54 AM	MMDadoda	8/18/2025 8:43:18 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VL081325

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:	VL082125	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042866.D	m/p-Xylene	MMDadod a	8/25/2025 1:29:32 PM	SAM	8/25/2025 1:30:56 PM	Peak Integrated by Software
VL0821ABS01	VL042868.D	m/p-Xylene	MMDadod a	8/25/2025 1:29:31 PM	SAM	8/25/2025 1:30:57 PM	Peak Integrated by Software
Q2898-02	VL042873.D	2,2,4-Trimethylpentane	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	4-Methyl-2-Pentanone	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Benzene	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Carbon Tetrachloride	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Cyclohexane	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Heptane	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Propene	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Tetrachloroethene	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-02	VL042873.D	Trichloroethene	MMDadod a	8/25/2025 1:29:50 PM	SAM	8/25/2025 1:31:07 PM	Peak Integrated by Software
Q2898-03	VL042874.D	2-Butanone	MMDadod a	8/25/2025 1:29:51 PM	SAM	8/25/2025 1:31:08 PM	Peak Integrated by Software
Q2898-03	VL042874.D	Ethanol	MMDadod a	8/25/2025 1:29:51 PM	SAM	8/25/2025 1:31:08 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL082125	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2898-03	VL042874.D	Toluene	MMDadoda	8/25/2025 1:29:51 PM	SAM	8/25/2025 1:31:08 PM	Peak Integrated by Software
Q2898-01	VL042875.D	1,2,4-Trimethylbenzene	MMDadoda	8/25/2025 1:29:52 PM	SAM	8/25/2025 1:31:10 PM	Peak Integrated by Software
Q2898-01	VL042875.D	Heptane	MMDadoda	8/25/2025 1:29:52 PM	SAM	8/25/2025 1:31:10 PM	Peak Integrated by Software
Q2898-01	VL042875.D	m/p-Xylene	MMDadoda	8/25/2025 1:29:52 PM	SAM	8/25/2025 1:31:10 PM	Peak Integrated by Software
Q2898-01	VL042875.D	Tetrachloroethene	MMDadoda	8/25/2025 1:29:52 PM	SAM	8/25/2025 1:31:10 PM	Peak Integrated by Software
Q2898-01	VL042875.D	Toluene	MMDadoda	8/25/2025 1:29:52 PM	SAM	8/25/2025 1:31:10 PM	Peak Integrated by Software
Q2898-01	VL042875.D	Trichloroethene	MMDadoda	8/25/2025 1:29:52 PM	SAM	8/25/2025 1:31:10 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	4-Methyl-2-Pentanone	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Benzene	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Carbon Tetrachloride	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Cyclohexane	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Heptane	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	m/p-Xylene	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL082125

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q2898-02DUP	VL042877.D	Propene	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Tetrachloroethene	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Toluene	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
Q2898-02DUP	VL042877.D	Trichloroethene	MMDadoda	8/25/2025 1:29:56 PM	SAM	8/25/2025 1:31:14 PM	Peak Integrated by Software
VSTDCCC010	VL042878.D	m/p-Xylene	MMDadoda	8/25/2025 1:29:58 PM	SAM	8/25/2025 1:31:15 PM	Peak Integrated by Software
VSTDCCC010	VL042878.D	Propene	MMDadoda	8/25/2025 1:29:58 PM	SAM	8/25/2025 1:31:15 PM	Peak Integrated by Software

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Maresh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042841.D	13 Aug 2025 07:45	SY/MD	Ok
2	VSTDICCC010	VL042842.D	13 Aug 2025 08:30	SY/MD	Ok,M
3	VSTDICCC002	VL042843.D	13 Aug 2025 09:06	SY/MD	Ok,M
4	VSTDICCC001	VL042844.D	13 Aug 2025 09:41	SY/MD	Ok,M
5	VSTDICCC0.5	VL042845.D	13 Aug 2025 10:17	SY/MD	Ok,M
6	VSTDICCC0.1	VL042846.D	13 Aug 2025 10:53	SY/MD	Ok,M
7	VSTDICCC0.03	VL042847.D	13 Aug 2025 11:30	SY/MD	Ok,M
8	VSTDICCC015	VL042848.D	13 Aug 2025 12:06	SY/MD	Ok,M
9	VSTDICV010	VL042849.D	13 Aug 2025 12:56	SY/MD	Ok,M
10	VL0813ABL01	VL042850.D	13 Aug 2025 13:46	SY/MD	Ok
11	VL0813ABS01	VL042851.D	13 Aug 2025 14:32	SY/MD	Ok,M
12	Q2727-01DL2	VL042852.D	13 Aug 2025 15:10	SY/MD	Ok
13	Q2126-14 0.1 PPB LOQ	VL042853.D	13 Aug 2025 15:49	SY/MD	Ok,M
14	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27	SY/MD	Ok
15	Q2794-01	VL042855.D	13 Aug 2025 17:05	SY/MD	Dilution
16	Q2794-01DUP	VL042856.D	13 Aug 2025 17:43	SY/MD	Ok,M
17	Q2794-01DL	VL042857.D	13 Aug 2025 18:21	SY/MD	Ok,M
18	Q2794-02	VL042858.D	13 Aug 2025 18:58	SY/MD	Ok,M
19	Q2794-02DL	VL042859.D	13 Aug 2025 19:35	SY/MD	Not Ok
20	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12	SY/MD	Ok
21	Q2834-01	VL042861.D	13 Aug 2025 20:49	SY/MD	Ok,M

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2655			
Initial Calibration Stds		AP2650,AP2652,AP2653			
CCC		AP2650			
Internal Standard/PEM		AP2655			
ICV/I.BLK		AP2654			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

22	Q2834-02	VL042862.D	13 Aug 2025 21:26	SY/MD	Ok,M
23	Q2834-02DL	VL042863.D	13 Aug 2025 22:02	SY/MD	Not Ok
24	VSTDCCC010	VL042864.D	13 Aug 2025 22:39	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL082125

Review By	Mahesh Dadoda	Review On	8/25/2025 1:30:09 PM
Supervise By	Semsettin Yesilyurt	Supervise On	8/25/2025 1:31:24 PM
SubDirectory	VL082125	HP Acquire Method	MSVOA_L
		HP Processing Method	
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	AP2655		
CCC	AP2651		
Internal Standard/PEM	AP2655		
ICV/I.BLK			
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042865.D	21 Aug 2025 12:15	SY/MD	Ok
2	VSTDCCC010	VL042866.D	21 Aug 2025 13:57	SY/MD	Ok,M
3	VL0821ABL01	VL042867.D	21 Aug 2025 14:43	SY/MD	Ok
4	VL0821ABS01	VL042868.D	21 Aug 2025 16:24	SY/MD	Ok,M
5	Q2887-03	VL042869.D	21 Aug 2025 17:17	SY/MD	Dilution
6	Q2887-03DUP	VL042870.D	21 Aug 2025 17:52	SY/MD	Not Ok
7	Q2887-01	VL042871.D	21 Aug 2025 18:28	SY/MD	Ok,M
8	Q2887-02	VL042872.D	21 Aug 2025 19:03	SY/MD	Ok,M
9	Q2898-02	VL042873.D	21 Aug 2025 19:39	SY/MD	Ok,M
10	Q2898-03	VL042874.D	21 Aug 2025 20:13	SY/MD	Ok,M
11	Q2898-01	VL042875.D	21 Aug 2025 20:49	SY/MD	Ok,M
12	Q2887-03DL	VL042876.D	22 Aug 2025 07:59	SY/MD	Ok,M
13	Q2898-02DUP	VL042877.D	22 Aug 2025 08:35	SY/MD	Ok,M
14	VSTDCCC010	VL042878.D	22 Aug 2025 09:26	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL081325AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2655
Initial Calibration Stds	AP2650,AP2652,AP2653
CCC	AP2650
Internal Standard/PEM	AP2655
ICV/I.BLK	AP2654
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042841.D	13 Aug 2025 07:45		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042842.D	13 Aug 2025 08:30		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042843.D	13 Aug 2025 09:06		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042844.D	13 Aug 2025 09:41		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042845.D	13 Aug 2025 10:17		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042846.D	13 Aug 2025 10:53		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042847.D	13 Aug 2025 11:30		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042848.D	13 Aug 2025 12:06		SY/MD	Ok,M
9	VSTDICV010	ICVVL081325	VL042849.D	13 Aug 2025 12:56		SY/MD	Ok,M
10	VL0813ABL01	VL0813ABL01	VL042850.D	13 Aug 2025 13:46		SY/MD	Ok
11	VL0813ABS01	VL0813ABS01	VL042851.D	13 Aug 2025 14:32		SY/MD	Ok,M
12	Q2727-01DL2	AE073-1100DL2	VL042852.D	13 Aug 2025 15:10		SY/MD	Ok
13	Q2126-14 0.1 PPB LOC	LOQ-AIR-02-QT2-2025	VL042853.D	13 Aug 2025 15:49		SY/MD	Ok,M
14	QC080725 CAN10282	QC080725 CAN10282	VL042854.D	13 Aug 2025 16:27		SY/MD	Ok
15	Q2794-01	IA1	VL042855.D	13 Aug 2025 17:05	Need 10X	SY/MD	Dilution
16	Q2794-01DUP	IA1DUP	VL042856.D	13 Aug 2025 17:43		SY/MD	Ok,M
17	Q2794-01DL	IA1DL	VL042857.D	13 Aug 2025 18:21		SY/MD	Ok,M
18	Q2794-02	OA1	VL042858.D	13 Aug 2025 18:58		SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL081325

Review By	Semsettin Yesilyurt	Review On	8/14/2025 7:50:07 AM		
Supervise By	Mahesh Dadoda	Supervise On	8/18/2025 8:43:31 AM		
SubDirectory	VL081325	HP Acquire Method	TO15AIR.M	HP Processing Method	VL081325AIR.M
STD. NAME	STD REF.#				
Tune/Reschk	AP2655				
Initial Calibration Stds	AP2650,AP2652,AP2653				
CCC	AP2650				
Internal Standard/PEM	AP2655				
ICV/I.BLK	AP2654				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q2794-02DL	OA1DL	VL042859.D	13 Aug 2025 19:35	Not Required	SY/MD	Not Ok
20	QC081125 CAN 10280	QC081125 CAN 10280	VL042860.D	13 Aug 2025 20:12		SY/MD	Ok
21	Q2834-01	IA1	VL042861.D	13 Aug 2025 20:49		SY/MD	Ok,M
22	Q2834-02	SV1	VL042862.D	13 Aug 2025 21:26		SY/MD	Ok,M
23	Q2834-02DL	SV1DL	VL042863.D	13 Aug 2025 22:02	Not Required	SY/MD	Not Ok
24	VSTDCCC010	VSTDCCC010EC	VL042864.D	13 Aug 2025 22:39		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL082125

Review By	Maresh Dadoda	Review On	8/25/2025 1:30:09 PM
Supervise By	Semsettin Yesilyurt	Supervise On	8/25/2025 1:31:24 PM
SubDirectory	VL082125	HP Acquire Method	MSVOA_L HP Processing Method

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	AP2655
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	AP2651 AP2655

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042865.D	21 Aug 2025 12:15		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042866.D	21 Aug 2025 13:57		SY/MD	Ok,M
3	VL0821ABL01	VL0821ABL01	VL042867.D	21 Aug 2025 14:43		SY/MD	Ok
4	VL0821ABS01	VL0821ABS01	VL042868.D	21 Aug 2025 16:24		SY/MD	Ok,M
5	Q2887-03	IA1	VL042869.D	21 Aug 2025 17:17	Need 4X	SY/MD	Dilution
6	Q2887-03DUP	IA1DUP	VL042870.D	21 Aug 2025 17:52	low volume,not matched	SY/MD	Not Ok
7	Q2887-01	SV1	VL042871.D	21 Aug 2025 18:28		SY/MD	Ok,M
8	Q2887-02	SV2	VL042872.D	21 Aug 2025 19:03		SY/MD	Ok,M
9	Q2898-02	IA1	VL042873.D	21 Aug 2025 19:39		SY/MD	Ok,M
10	Q2898-03	OA1	VL042874.D	21 Aug 2025 20:13		SY/MD	Ok,M
11	Q2898-01	SV1	VL042875.D	21 Aug 2025 20:49		SY/MD	Ok,M
12	Q2887-03DL	IA1DL	VL042876.D	22 Aug 2025 07:59	no more volume	SY/MD	Ok,M
13	Q2898-02DUP	IA1DUP	VL042877.D	22 Aug 2025 08:35		SY/MD	Ok,M
14	VSTDCCC010	VSTDCCC010EC	VL042878.D	22 Aug 2025 09:26		SY/MD	Ok,M

M : Manual Integration