



SHIPPING DOCUMENTS

Client Contact Information				Bottle Order ID : B2502047				Courier : FGALDUN				1 of 6 COCs			
Client ID : GFEL01				Project ID : 10-Elmridge Ct				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer GFE LLC Name : Address : 58 Nokomis Ave				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Phone Number : 646-542-3465											
				Fax Number : 973-334-1692											
				Site Details: 97-36 63RD RD. REGO PARK, NY											
City : Lake Hiawatha				Analysis Turnaround Time 3 DAY				Data Package Type : RESULTS ONLY							
State : NJ				Standard : 10 Business days OR				EDD Type : PDF							
Zip Code : 07034				Rush (Specify): 3 Days											
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas
IA1	3/26/97	9:40	11:40	OVER 30	5	60	60	-30	-4.3	10511	10604	6 L	50	VL041876.D	1	1	

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15) SUA

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

REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO			
Canisters Shipped by: SAM	Date/Time: 3/28/97	Canisters Received by: OR	Date/Time: 3-4-25 1039
Samples Relinquished by: FRANK	Date/Time: 3/31/97	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2502047				Courier : FGALDUN				2 of 6 COCs			
Client ID : GFELO1 Project ID : 10 Elbridge St.				Project Manager : Frank galdun				Sampler Name(s) : FRANK GALDUN				Analysis		Matrix	
Customer Name : GFE LLC Address : 58 Nokomis Ave				Phone Number : 646-542-3465				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified							
				Fax Number : 973-334-1692											
				Site Details: 97-36 63RD RD. BRONX, NY											
Analysis Turnaround Time 3 DAY															
City : Lake Hiawatha				Standard : 10 business days OR				Data Package Type : RESULTS ONLY							
State : NJ				Rush (Specify): 3 Days				EDD Type : PDF							
Zip Code : 07034															
Country :															

Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
IAZ	3/4/25	11:12	1:12	30	6.5	60	60	-30	-6.7	10579	10401	6 L	50	VL041876.D	1	1	

Temperature (Fahrenheit)			
	Ambient	Maximum	Minimum
Start			
Stop			

Pressure (Inches of Hg)			
	Ambient	Maximum	Minimum
Start			
Stop			

GC/MS Analyst Signature (TO-15)

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

REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TEA, 1,1-DCE, VINYL CHLORIDE

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium **Low** PID Readings: **0.0**

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: SGM	Date/Time: 02/28/25	Canisters Received by: CR	Date/Time: 3-4-25 /039
Samples Relinquished by: FSU	Date/Time: 3/4/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

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Client Contact Information				Bottle Order ID : B2502047				Courier : FGALDUN				3 of 6 COCs			
Client ID : GFEL01 Project ID : 10-Bridge St.				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: 97-36 63RD RD, REGO PARK, NY											
				Analysis Turnaround Time 3 DAY				Data Package Type RESULTS ONLY							
				Standard : 10 business days OR				EDD Type : PDF							
Country :				Rush (Specify): 3 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	3/25	8:41	10:41	OVER 30	6	70	70	-30	-4.7	10648	10326	6 L	50	VL041876.D			1

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) Sust
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium Low

Sampling site (State):

Quick Connector required : **NO**

Canisters Shipped by: Sam	Date/Time: 3/28/25	Canisters Received by: AR	Date/Time: 3-25 10:39
Samples Relinquished by: FED	Date/Time: 3/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502047 - 4

Client Contact Information				Bottle Order ID : B2502047				Courier : FGaldun				4 of 6 COCs					
Client ID : GFEL01 Project ID : 10 EL1483-24				Sampler Name(s) : FRANK Galdun				Analysis				Matrix					
Customer GFE LLC Name : Address : 58 Nokomis Ave City : Lake Hiawatha State : NJ Zip Code : 07034 Country :				Project Manager : Frank galdun				AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified									
				Phone Number : 646-542-3465													
				Fax Number : 973-334-1692													
				Site Details: 97-36 63RD RD. REGO PARK, NY													
Analysis Turnaround Time 3 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY									
Rush (Specify): 3 Days				EDD Type : PDF													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor/Ambient Air	Soil Gas
SV2	3/12/2014	11:54	3:00	30	1.5	69	69	-30	-8.4	10502	10300	6 L	50	VL041876.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: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 101 PPM																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: [Signature]				Date/Time: 02/28/2014				Canisters Received by: [Signature]				Date/Time: 3-4-25 1039				B2502047 - 3	
Samples Relinquished by: [Signature]				Date/Time: 3/4/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Client Contact Information				Bottle Order ID : B2502047				Courier : Frank Galdun				5 of 6 COCs			
Client ID : GFEL01 Project ID : 10 EL 101010				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: 97-36 63RD RD, REGO PARK, NY											
				Analysis Turnaround Time 3 DAY				Data Package Type : Results only							
				Standard : 10 business days OR				EDD Type : PDI							
Rush (Specify): 3 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
SV3	3/3/25	10:02	12:02	OVER 30	S	65	65	-30	-5.5	10226	10024	6 L	50	VL041954.D	1		1

Temperature (Fahrenheit)					GC/MS Analyst Signature (TO-15) Suh
	Ambient	Maximum	Minimum		
Start					
Stop					

Pressure (Inches of Hg)					** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE. Please follow the instructions on the back of this COC.
	Ambient	Maximum	Minimum		
Start					
Stop					

Special Instructions/QC Requirements & Comments :
Suspected Contamination: High Medium Low PID Readings: **3 PPM**
Sampling site (State):
Quick Connector required : **NO**

Canisters Shipped by: Suh	Date/Time: 02/28/25	Canisters Received by: CR	Date/Time: 3-4-25 1039
Samples Relinquished by: FRA	Date/Time: 3/3/25	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

B2502047 - 1

Client Contact Information				Bottle Order ID : B2502047				Courier : F Galdun				<u>6</u> of <u>6</u> COCs					
Client ID : GFEL01 Project ID : 10 Eldridge St.				Sampler Name(s) : FRANK G. 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: 97-36 63RD RD. REGO PARK, NY													
Analysis Turnaround Time 3 DAY				Standard : 10 business days OR				Data Package Type : RESULTS ONLY									
Rush (Specify): 3 Days				EDD Type : PDF													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID		Flow Controller Readout (ml/min)	Can Cert ID	<u>TO-15</u>	Indoor/Ambient Air	Soil Gas
SU4	3/25	10:53	12:53	OVER 30	5	68	68	-30	-4.7	10707	10197	6 L	50	VL041954.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: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.							
		Ambient	Maximum	Minimum													
Start																	
Stop																	
Special Instructions/QC Requirements & Comments :																	
Suspected Contamination: High Medium Low PID Readings: 25 PPM																	
Sampling site (State):																	
Quick Connector required : NO																	
Canisters Shipped by: Sam				Date/Time: 02/28/25				Canisters Received by: [Signature]				Date/Time: 3-4-25 1039					
Samples Relinquished by: FNU				Date/Time: 3/3/25				Received by:				Date/Time:					
Relinquished by:				Date/Time:				Received by:				Date/Time:					

Laboratory Certification

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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

Laboratory Person Breaking Field Seal on Sample Shuttle & Accepting Responsibility for Sample	
Laboratory: Chemtech NAME Field Sample Seal No.: Q1483 Case No.: 97-34 63RD RD, Rego Part	Location: 284 Sheffield Street, Mountainside, NJ 7092 Title: Sample Custodian Date Broken: 3/4/2025 Analytical Parameter/Fraction: OCMMS Group3
Military Time Seal Broken: 10:39:00	

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1483-01	IA1		
Q1483-02	IA2		
Q1483-03	SV1		
Q1483-04	SV2		
Q1483-05	SV3		
Q1483-06	SV4		

Date	Time	Relinquished By		Received By		Purpose of Change of Custody
3/4	1330	Signature		Signature		
		Printed Name	BASS B.	Printed Name	Pedro . S	
		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:	Q1483	OrderDate:	3/4/2025 12:50:00 PM
Client:	GFE LLC	Project:	97-36 63rd Rd, Rego Park NY
Contact:	Frank Galdun	Location:	Air Lab, VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1483-01	IA1	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-02	IA2	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-02DL	IA2DL	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-03	SV1	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-04	SV2	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-05	SV3	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-05DL	SV3DL	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25
Q1483-06	SV4	Air	VOCMS Group3	TO-15	03/03/25		03/05/25	03/04/25

Hit Summary Sheet
SW-846

SDG No.: Q1483
Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	IA1							
Q1483-01	IA1	Air	cis-1,2-Dichloroethene	0.71	J	0.36	1.98	ug/m3
Q1483-01	IA1	Air	Trichloroethene	1.18		0.11	0.16	ug/m3
Q1483-01	IA1	Air	Tetrachloroethene	50.9		0.14	0.20	ug/m3
			Total Voc :	52.8				
			Total Concentration:	52.8				
Client ID:	IA2							
Q1483-02	IA2	Air	cis-1,2-Dichloroethene	2.42		0.36	1.98	ug/m3
Q1483-02	IA2	Air	Trichloroethene	4.94		0.11	0.16	ug/m3
Q1483-02	IA2	Air	Tetrachloroethene	267	E	0.14	0.20	ug/m3
			Total Voc :	275				
			Total Concentration:	275				
Client ID:	IA2DL							
Q1483-02DL	IA2DL	Air	Trichloroethene	4.94	D	0.75	1.29	ug/m3
Q1483-02DL	IA2DL	Air	Tetrachloroethene	241	D	0.81	1.63	ug/m3
			Total Voc :	246				
			Total Concentration:	246				
Client ID:	SV1							
Q1483-03	SV1	Air	cis-1,2-Dichloroethene	7530		436	2380	ug/m3
Q1483-03	SV1	Air	Trichloroethene	26300		110	193	ug/m3
Q1483-03	SV1	Air	Tetrachloroethene	2230000	E	122	244	ug/m3
			Total Voc :	2260000				
			Total Concentration:	2260000				
Client ID:	SV2							
Q1483-04	SV2	Air	Vinyl Chloride	383		42.9	92.0	ug/m3
Q1483-04	SV2	Air	cis-1,2-Dichloroethene	101000	E	436	2380	ug/m3
Q1483-04	SV2	Air	Trichloroethene	112000	E	110	193	ug/m3
Q1483-04	SV2	Air	Tetrachloroethene	3210000	E	122	244	ug/m3
			Total Voc :	3430000				
			Total Concentration:	3430000				
Client ID:	SV3							
Q1483-05	SV3	Air	cis-1,2-Dichloroethene	49.2		1.43	7.93	ug/m3
Q1483-05	SV3	Air	Trichloroethene	2740	E	0.38	0.64	ug/m3
Q1483-05	SV3	Air	Tetrachloroethene	41400	E	0.41	0.81	ug/m3
			Total Voc :	44200				
			Total Concentration:	44200				
Client ID:	SV3DL							
Q1483-05DL	SV3DL	Air	Trichloroethene	3490	D	110	193	ug/m3
Q1483-05DL	SV3DL	Air	Tetrachloroethene	197000	ED	122	244	ug/m3
			Total Voc :	200000				

Hit Summary Sheet
SW-846

SDG No.: Q1483

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Total Concentration:				200000				
Client ID:	SV4							
Q1483-06	SV4	Air	cis-1,2-Dichloroethene	4760		436	2380	ug/m3
Q1483-06	SV4	Air	Trichloroethene	12900		110	193	ug/m3
Q1483-06	SV4	Air	Tetrachloroethene	1080000	E	122	244	ug/m3
Total Voc :				1100000				
Total Concentration:				1100000				



QC SUMMARY

Surrogate Summary

SDG No.: Q1483

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1483-01	IA1	1-Bromo-4-Fluorobenzene	10	9.75	98	65	135
Q1483-01DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.70	97	65	135
Q1483-02	IA2	1-Bromo-4-Fluorobenzene	10	9.49	95	65	135
Q1483-02DL	IA2DL	1-Bromo-4-Fluorobenzene	10	9.46	95	65	135
Q1483-03	SV1	1-Bromo-4-Fluorobenzene	10	9.27	93	65	135
Q1483-04	SV2	1-Bromo-4-Fluorobenzene	10	9.21	92	65	135
Q1483-05	SV3	1-Bromo-4-Fluorobenzene	10	10.2	102	65	135
Q1483-05DL	SV3DL	1-Bromo-4-Fluorobenzene	10	9.59	96	65	135
Q1483-06	SV4	1-Bromo-4-Fluorobenzene	10	9.14	91	65	135
VL0305ABL01	VL0305ABL01	1-Bromo-4-Fluorobenzene	10	9.47	95	65	135
VL0305ABS01	VL0305ABS01	1-Bromo-4-Fluorobenzene	10	10.3	103	65	135

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1483
Client: GFE LLC
Analytical Method: SWTO-15 **Datafile :** VL042097.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VL0305ABS01	Vinyl Chloride	10	11.9	ppbv	119			70	130	
	1,1-Dichloroethene	10	10.9	ppbv	109			70	130	
	cis-1,2-Dichloroethene	10	9.80	ppbv	98			70	130	
	1,1,1-Trichloroethane	10	9.80	ppbv	98			70	130	
	Trichloroethene	10	10.3	ppbv	103			70	130	
	Tetrachloroethene	10	10.6	ppbv	106			70	130	

Duplicate Sample Summary

Lab Sample Id :	Q1483-01DUP	Q1483-01
Client Id :	IA1DUP	IA1
DF :	1	1
Datafile :	VL042099.D	VL042098.D
Anal Date & Time :	03/05/2025 12:11	03/05/2025 11:37

Parameter	Result	Result	RPD
1,1,1-Trichloroethane	0	0	0
1,1-Dichloroethene	0	0	0
cis-1,2-Dichloroethene	0.17	0.18	5.7
Tetrachloroethene	7.8	7.5	3.9
Trichloroethene	0.21	0.22	4.7
Vinyl Chloride	0	0	0

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1483

SAS No.: Q1483 SDG NO.: Q1483

Lab File ID: VL042099.D

Lab Sample ID: Q1483-01DUP

Date Analyzed: 03/05/2025

Time Analyzed: 12:11

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	Q1483-01DUP	VL042099.D	03/05/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0305ABL01

Lab Name: CHEMTECH

Contract: GFEL01

Lab Code: CHEM Case No.: Q1483

SAS No.: Q1483 SDG NO.: Q1483

Lab File ID: VL042096.D

Lab Sample ID: VL0305ABL01

Date Analyzed: 03/05/2025

Time Analyzed: 10:05

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

Heated Purge: (Y/N) N

Instrument ID: MSVOA_L

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VL0305ABS01	VL0305ABS01	VL042097.D	03/05/2025
IA1	Q1483-01	VL042098.D	03/05/2025
IA2	Q1483-02	VL042100.D	03/05/2025
SV3	Q1483-05	VL042101.D	03/05/2025
IA2DL	Q1483-02DL	VL042105.D	03/05/2025
SV3DL	Q1483-05DL	VL042106.D	03/05/2025
SV4	Q1483-06	VL042108.D	03/05/2025
SV1	Q1483-03	VL042110.D	03/05/2025
SV2	Q1483-04	VL042112.D	03/05/2025

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1483 SAS No.: Q1483 SDG NO.: Q1483
Lab File ID: VL042040.D BFB Injection Date: 02/25/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:56
GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.6
75	30.0 - 66.0% of mass 95	55.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.3
175	4.0 - 9.0% of mass 174	4.9 (7.8) 1
176	93.0 - 101.0% of mass 174	60.9 (96.1) 1
177	5.0 - 9.0% of mass 176	3.4 (5.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL042041.D	02/25/2025	08:56
VSTDICC002	VSTDICC002	VL042042.D	02/25/2025	09:29
VSTDICC001	VSTDICC001	VL042043.D	02/25/2025	10:00
VSTDICC0.5	VSTDICC0.5	VL042044.D	02/25/2025	10:31
VSTDICC0.1	VSTDICC0.1	VL042045.D	02/25/2025	11:03
VSTDICC0.03	VSTDICC0.03	VL042046.D	02/25/2025	11:34
VSTDICC015	VSTDICC015	VL042047.D	02/25/2025	12:07

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01
Lab Code: CHEM Case No.: Q1483 SAS No.: Q1483 SDG NO.: Q1483
Lab File ID: VL042094.D BFB Injection Date: 03/05/2025
Instrument ID: MSVOA_L BFB Injection Time: 07:48
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	24.5
75	30.0 - 66.0% of mass 95	56.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.7 (1.1) 1
174	50.0 - 120.0% of mass 95	63.4
175	4.0 - 9.0% of mass 174	4.6 (7.2) 1
176	93.0 - 101.0% of mass 174	61.4 (96.8) 1
177	5.0 - 9.0% of mass 176	4.2 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC010	VSTDCCC010	VL042095.D	03/05/2025	08:30
VL0305ABL01	VL0305ABL01	VL042096.D	03/05/2025	10:05
VL0305ABS01	VL0305ABS01	VL042097.D	03/05/2025	10:47
IA1	Q1483-01	VL042098.D	03/05/2025	11:37
IA1DUP	Q1483-01DUP	VL042099.D	03/05/2025	12:11
IA2	Q1483-02	VL042100.D	03/05/2025	12:45
SV3	Q1483-05	VL042101.D	03/05/2025	13:16
IA2DL	Q1483-02DL	VL042105.D	03/05/2025	15:37
SV3DL	Q1483-05DL	VL042106.D	03/05/2025	16:28
SV4	Q1483-06	VL042108.D	03/05/2025	17:31
SV1	Q1483-03	VL042110.D	03/05/2025	18:34
SV2	Q1483-04	VL042112.D	03/05/2025	19:37

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1483 SAS No.: Q1483 SDG NO.: Q1483
 Lab File ID: VL042095.D Date Analyzed: 03/05/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:30
 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	165815	2.80	390110	3.97	326693	8.90
UPPER LIMIT	232141	3.13	546154	4.30	457370	9.23
LOWER LIMIT	99489	2.47	234066	3.64	196016	8.57
EPA SAMPLE NO.						
IA1	164488	2.80	384682	3.98	315662	8.90
IA1DUP	165058	2.80	375944	3.98	314364	8.90
IA2	164636	2.81	383796	3.98	323657	8.91
IA2DL	157669	2.81	354066	3.99	290825	8.91
SV1	157863	2.81	348468	4.00	288912	8.92
SV2	159533	2.82	343542	4.00	288034	8.92
SV3	170910	2.81	395541	3.99	368402	8.92
SV3DL	159641	2.81	358572	3.99	298512	8.91
SV4	157233	2.81	350842	3.99	294774	8.91
VL0305ABL01	157535	2.80	359252	3.97	301482	8.90
VL0305ABS01	160352	2.80	379500	3.98	316612	8.91

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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1483 SAS No.: Q1483 SDG NO.: Q1483
 Lab File ID: VL042095.D Date Analyzed: 03/05/2025
 Instrument ID: MSVOA_L Time Analyzed: 08:30
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	0	0				
UPPER LIMIT	0					
LOWER LIMIT	0					
EPA SAMPLE NO.						
IA1	0	0.00				
IA1DUP	0	0.00				
IA2	0	0.00				
IA2DL	0	0.00				
SV1	0	0.00				
SV2	0	0.00				
SV3	0	0.00				
SV3DL	0	0.00				
SV4	0	0.00				
VL0305ABL01	0	0.00				
VL0305ABS01	0	0.00				

IS4 =

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:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	IA1	SDG No.:	Q1483
Lab Sample ID:	Q1483-01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042098.D	1		03/05/25 11:37	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.18	0.71	J	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.22	1.18		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	7.50	50.9		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.80			65 - 135	98%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	164000		2.8			
540-36-3	1,4-Difluorobenzene	385000		3.981			
3114-55-4	Chlorobenzene-d5	316000		8.904			

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\VL030525\
 Data File : VL042098.D
 Acq On : 05 Mar 2025 11:37
 Operator : SY/MD
 Sample : Q1483-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/06/2025
 Supervised By : Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:05:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	164488	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	384682	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	315662	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	236783	9.750	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.500%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	10655	0.623	ppbv	96
3) Chlorodifluoromethane	1.482	51	125818m	5.263	ppbv	
4) Chloromethane	1.538	50	4062	0.642	ppbv	100
9) Propene	1.492	41	28869m	2.964	ppbv	
11) Trichlorofluoromethane	1.884	101	14547	0.849	ppbv	96
13) Ethanol	1.728	45	303330	490.628	ppbv	93
15) Acetone	1.845	43	161545	11.121	ppbv	97
19) Isopropyl Alcohol	1.897	45	70629	8.465	ppbv #	73
20) Methylene Chloride	2.072	84	3119	0.568	ppbv	93
26) Hexane	2.842	57	3079m	0.131	ppbv	
29) Chloroform	2.861	83	23443	0.741	ppbv	93
31) cis-1,2-Dichloroethene	2.738	61	3964m	0.178	ppbv	
34) 2-Butanone	2.576	43	9892m	0.330	ppbv	
35) Carbon Tetrachloride	3.784	117	2434m	0.092	ppbv	
36) Benzene	3.677	78	8514	0.211	ppbv #	89
38) Trichloroethene	4.573	130	3544m	0.216	ppbv	
52) Tetrachloroethene	8.247	164	104028	7.546	ppbv	97
53) Toluene	6.959	91	7710m	0.171	ppbv	
59) m/p-Xylene	9.558	91	4886m	0.106	ppbv	
76) 1,4-Dichlorobenzene	11.691	146	9825	0.310	ppbv	88

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

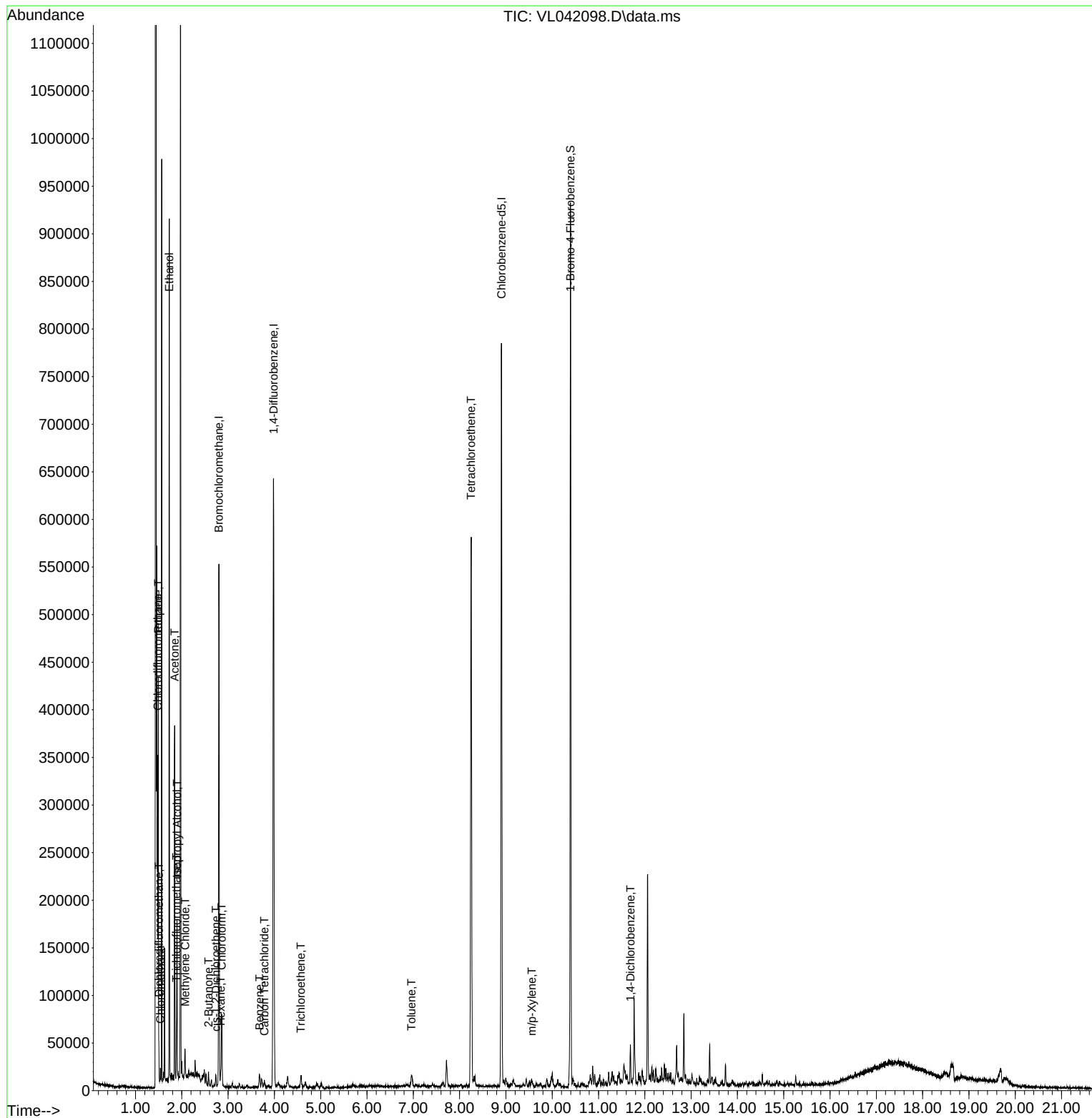
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Data File : VL042098.D
Acq On : 05 Mar 2025 11:37
Operator : SY/MD
Sample : Q1483-01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

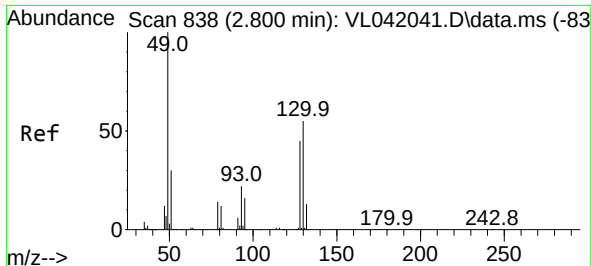
Instrument :
MSVOA_L
ClientSampleId :
IA1

Quant Time: Mar 06 01:05:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

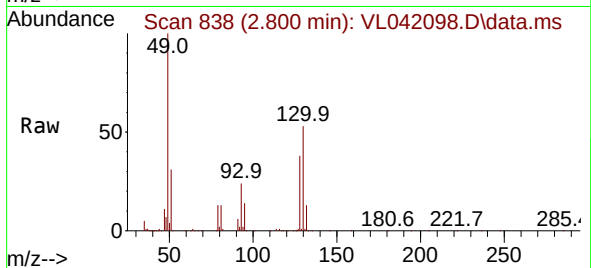
Reviewed By : Semsettin Yesilyurt 03/06/2025
Supervised By : Mahesh Dadoda 03/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

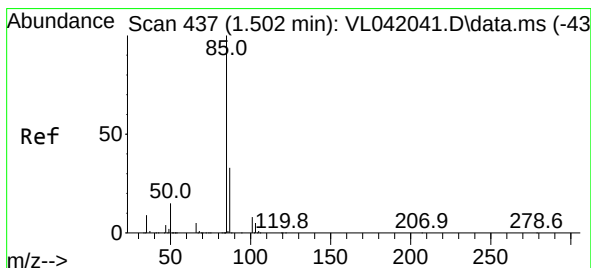
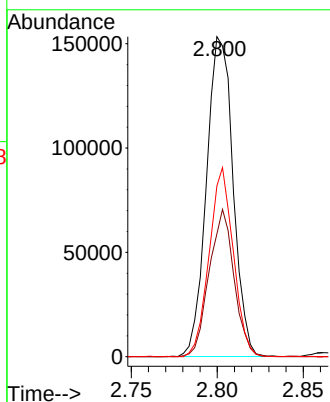
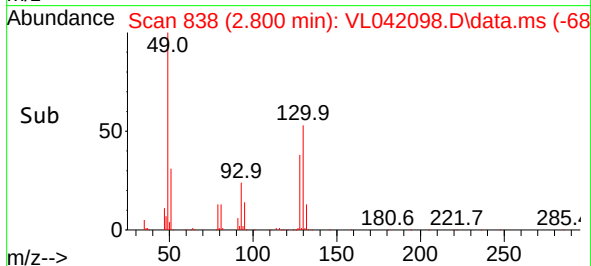
Instrument :
MSVOA_L
ClientSampleId :
IA1



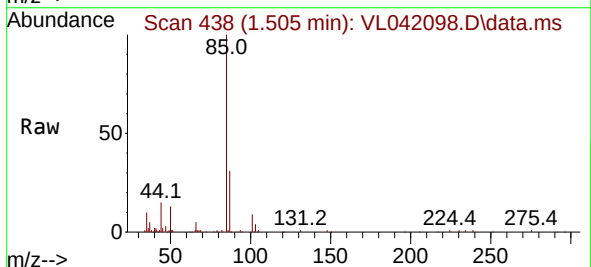
Tgt Ion: 49 Resp: 16448
Ion Ratio Lower Upper
49 100
128 43.1 21.6 64.8
130 53.9 27.8 83.4

Manual Integrations
APPROVED

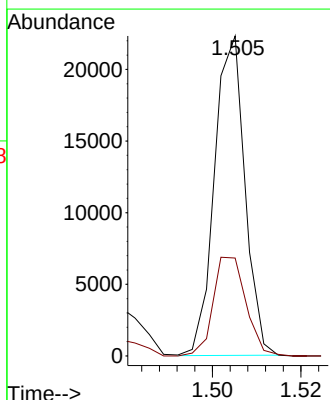
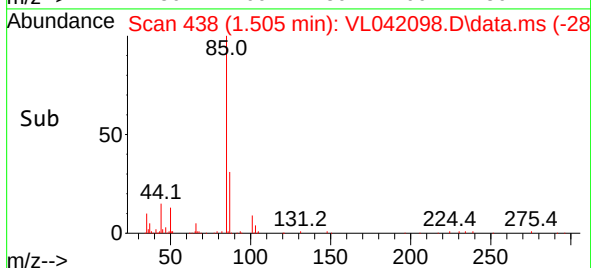
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

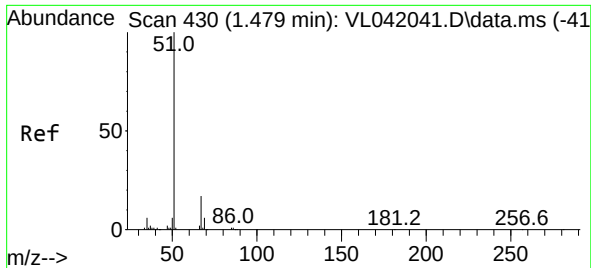


#2
Dichlorodifluoromethane
Concen: 0.623 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37



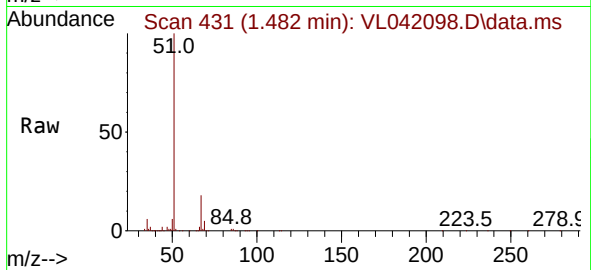
Tgt Ion: 85 Resp: 10655
Ion Ratio Lower Upper
85 100
87 30.7 26.4 39.6





#3
Chlorodifluoromethane
Concen: 5.263 ppbv m
RT: 1.482 min Scan# 431
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

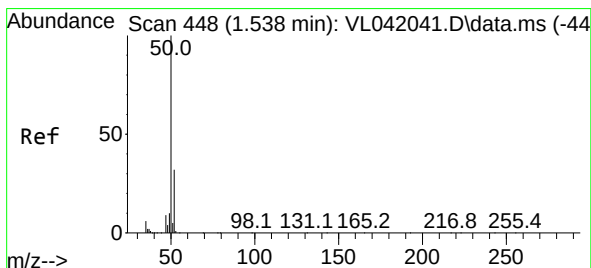
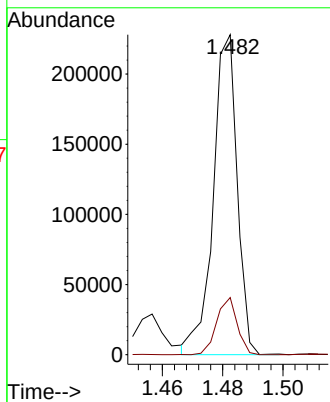
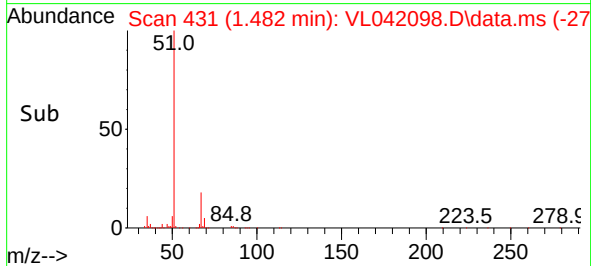
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 51 Resp: 125818
Ion Ratio Lower Upper
51 100
67 15.7 13.7 20.5

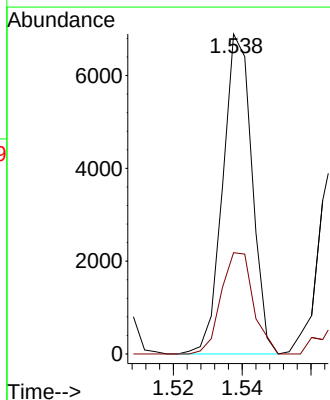
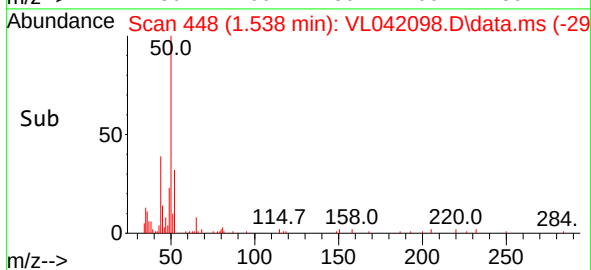
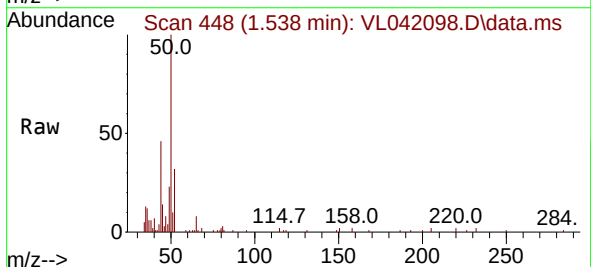
Manual Integrations
APPROVED

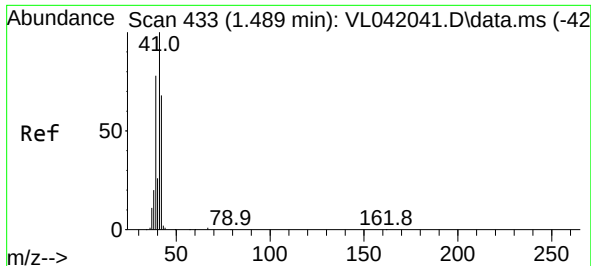
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#4
Chloromethane
Concen: 0.642 ppbv
RT: 1.538 min Scan# 448
Delta R.T. -0.000 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

Tgt Ion: 50 Resp: 4062
Ion Ratio Lower Upper
50 100
52 31.6 25.4 38.0





#9

Propene

Concen: 2.964 ppbv m

RT: 1.492 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042098.D

Acq: 05 Mar 2025 11:37

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 41 Resp: 2886

Ion Ratio Lower Upper

41 100

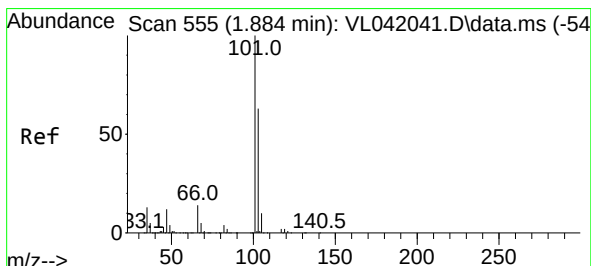
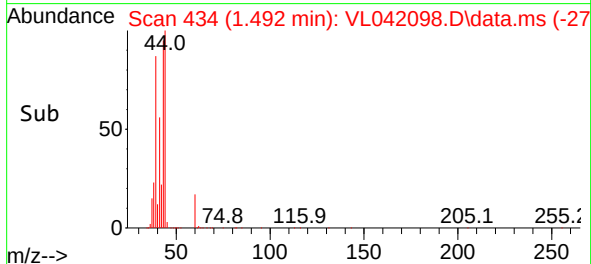
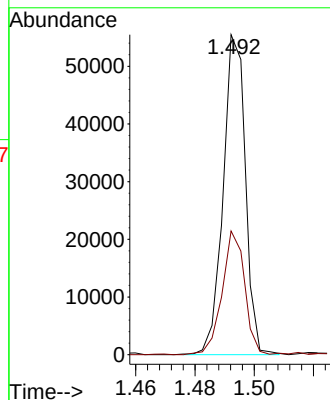
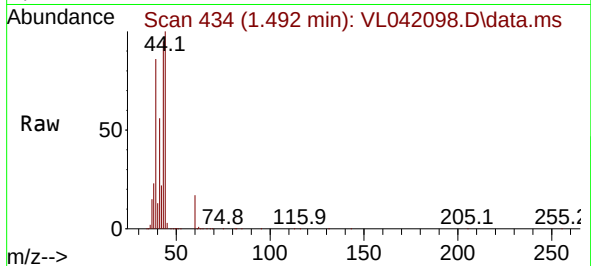
42 247.6 55.8 83.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#11

Trichlorofluoromethane

Concen: 0.849 ppbv

RT: 1.884 min Scan# 555

Delta R.T. -0.000 min

Lab File: VL042098.D

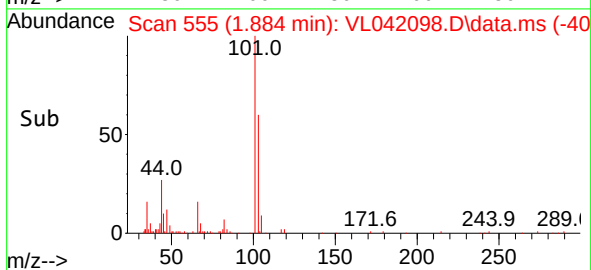
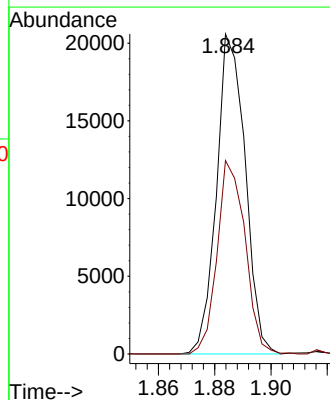
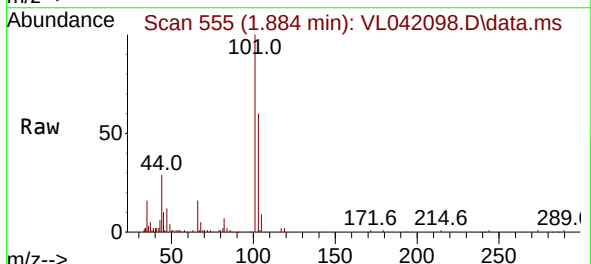
Acq: 05 Mar 2025 11:37

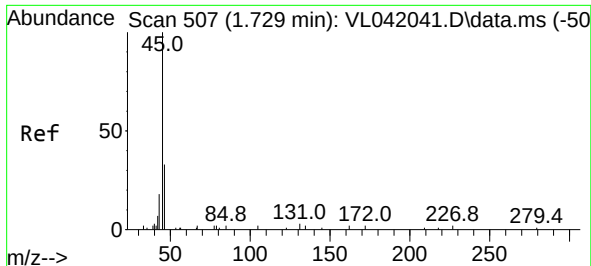
Tgt Ion:101 Resp: 14547

Ion Ratio Lower Upper

101 100

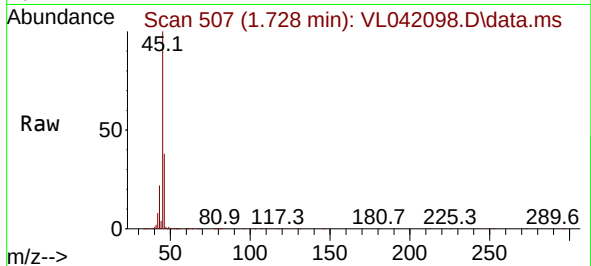
103 60.5 50.6 75.8





#13
Ethanol
Concen: 490.628 ppbv
RT: 1.728 min Scan# 507
Delta R.T. -0.000 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

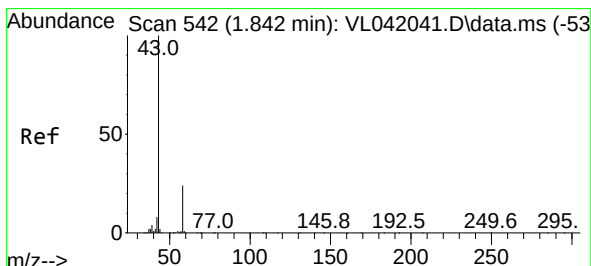
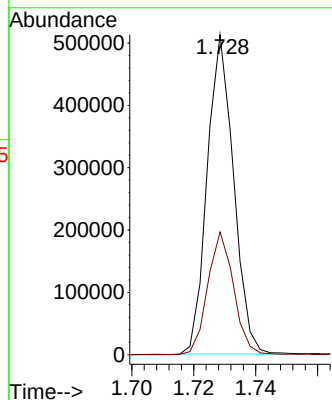
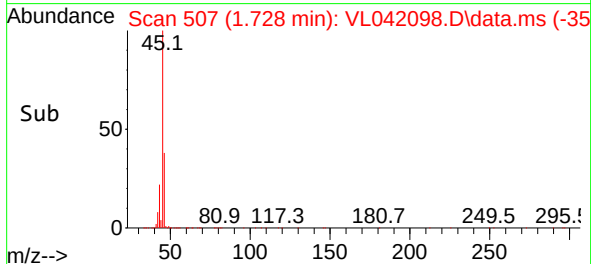
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 303330
Ion Ratio Lower Upper
45 100
46 38.0 17.1 68.3

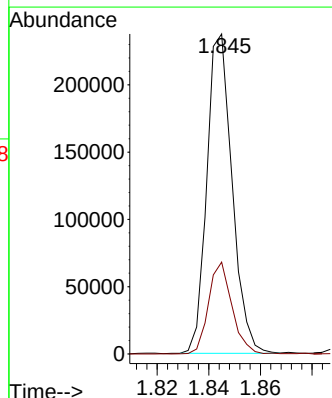
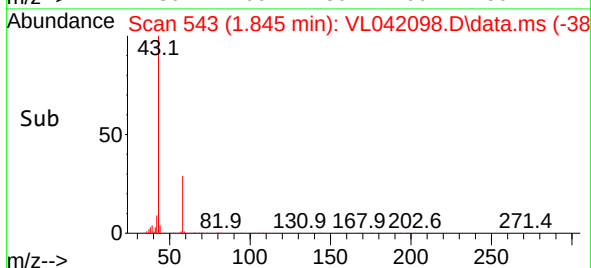
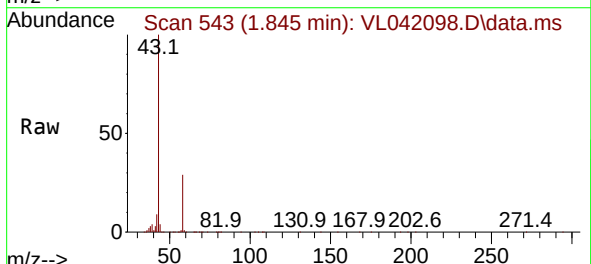
Manual Integrations
APPROVED

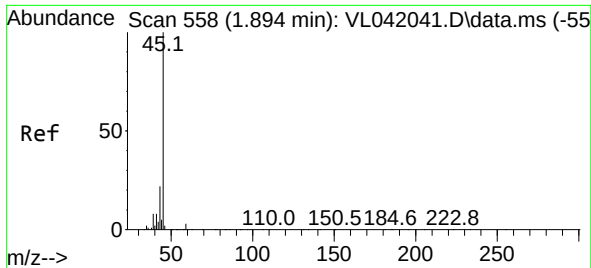
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#15
Acetone
Concen: 11.121 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

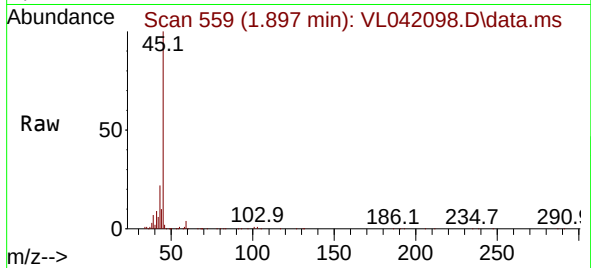
Tgt Ion: 43 Resp: 161545
Ion Ratio Lower Upper
43 100
58 27.4 20.7 31.1





#19
Isopropyl Alcohol
Concen: 8.465 ppbv
RT: 1.897 min Scan# 559
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

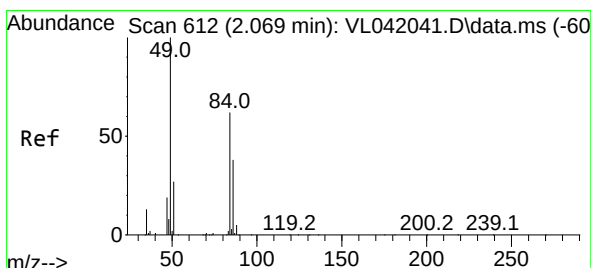
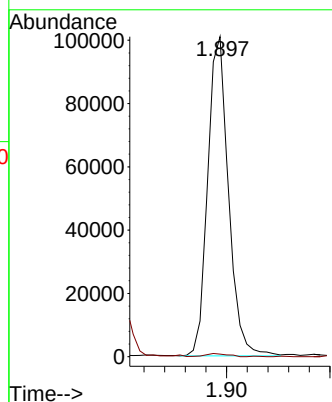
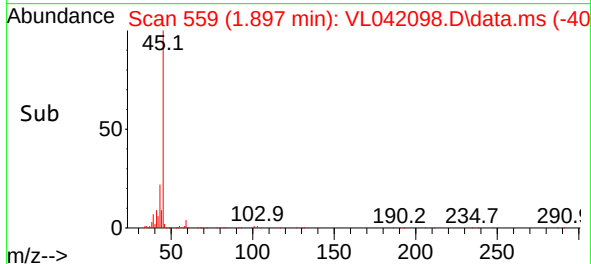
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 45 Resp: 70629
Ion Ratio Lower Upper
45 100
58 61.4 35.3 52.9

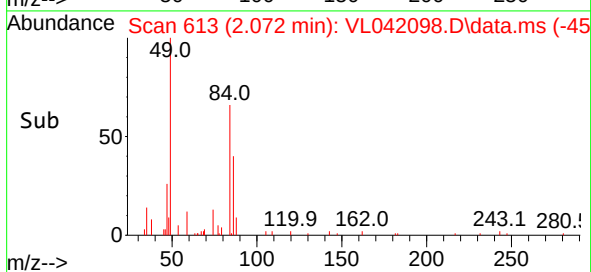
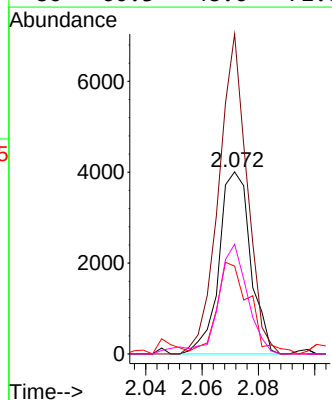
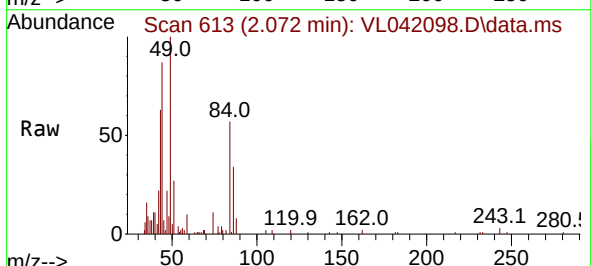
Manual Integrations
APPROVED

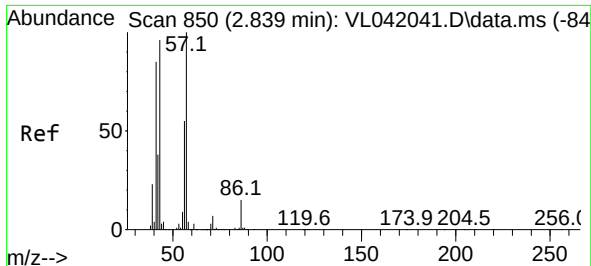
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#20
Methylene Chloride
Concen: 0.568 ppbv
RT: 2.072 min Scan# 613
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

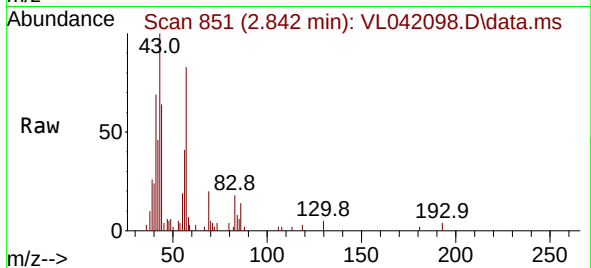
Tgt Ion: 84 Resp: 3119
Ion Ratio Lower Upper
84 100
49 175.8 130.0 195.0
51 45.2 37.4 56.0
86 60.3 48.6 72.8





#26
Hexane
Concen: 0.131 ppbv m
RT: 2.842 min Scan# 851
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

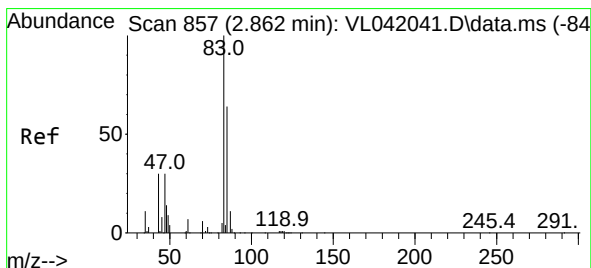
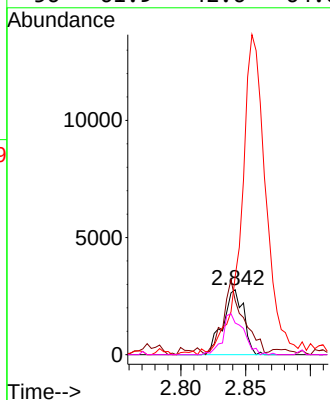
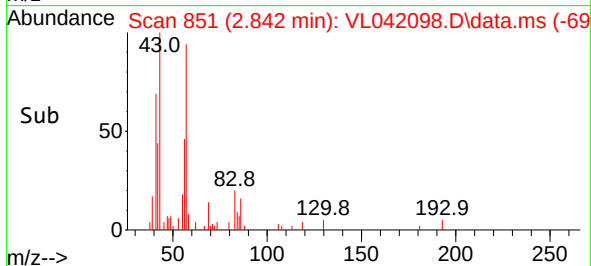
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 57 Resp: 3079
Ion Ratio Lower Upper
57 100
41 126.9 70.6 106.0
43 598.8 199.4 299.0
56 61.9 42.6 64.0

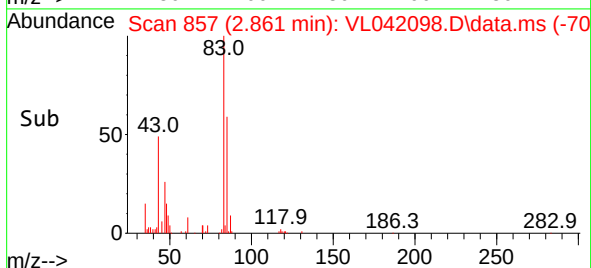
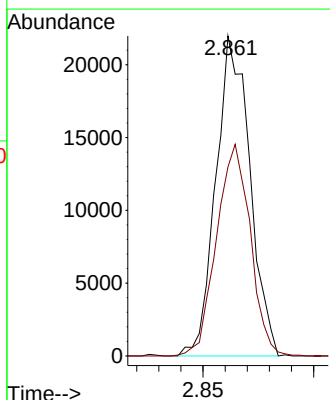
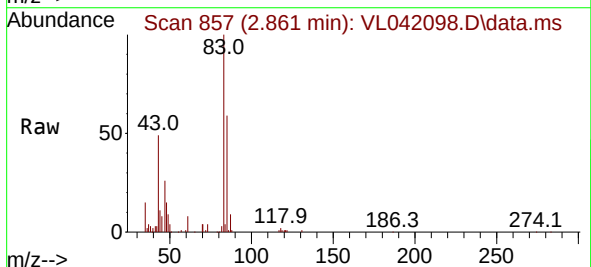
Manual Integrations
APPROVED

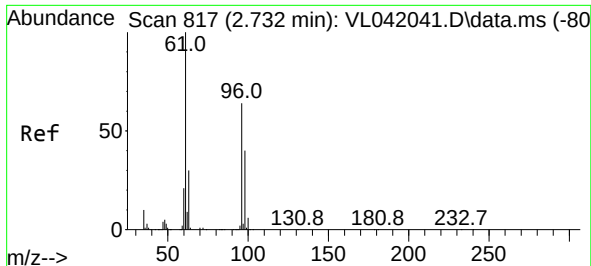
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#29
Chloroform
Concen: 0.741 ppbv
RT: 2.861 min Scan# 857
Delta R.T. -0.000 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

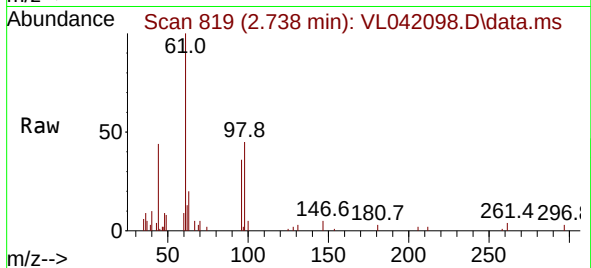
Tgt Ion: 83 Resp: 23443
Ion Ratio Lower Upper
83 100
85 58.7 51.2 76.8





#31
 cis-1,2-Dichloroethene
 Concen: 0.178 ppbv m
 RT: 2.738 min Scan# 817
 Delta R.T. 0.006 min
 Lab File: VL042098.D
 Acq: 05 Mar 2025 11:37

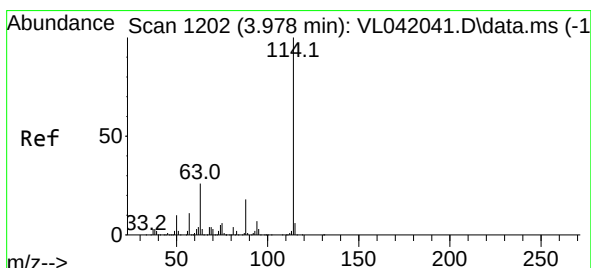
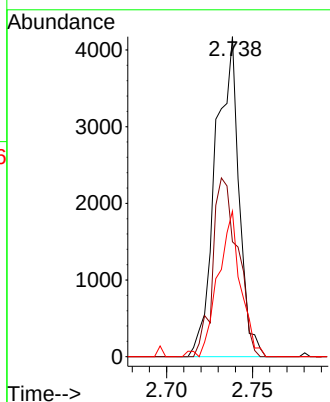
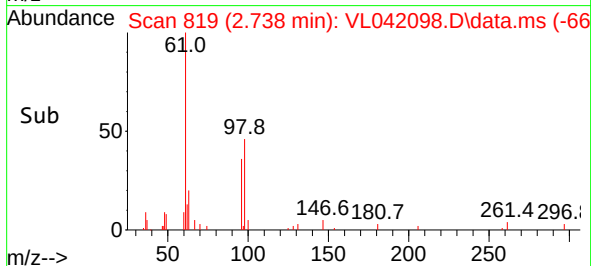
Instrument :
 MSVOA_L
 ClientSampleId :
 IA1



Tgt Ion: 61 Resp: 3964
 Ion Ratio Lower Upper
 61 100
 96 35.9 51.5 77.3
 98 45.5 32.0 48.0

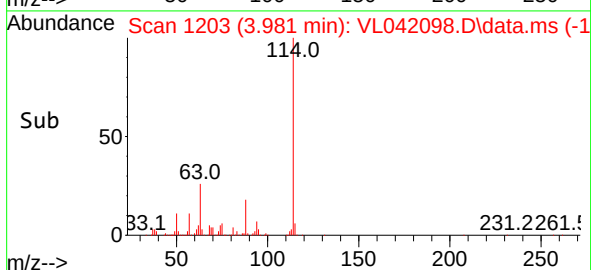
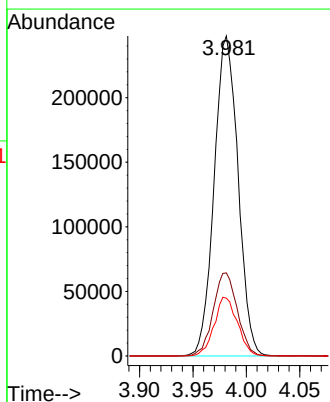
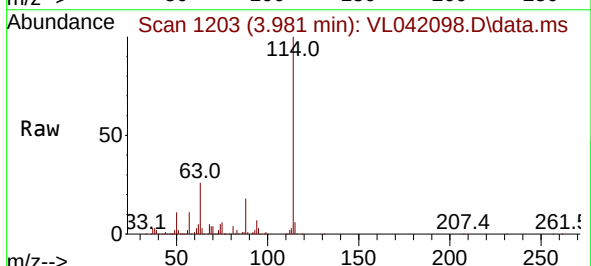
Manual Integrations
 APPROVED

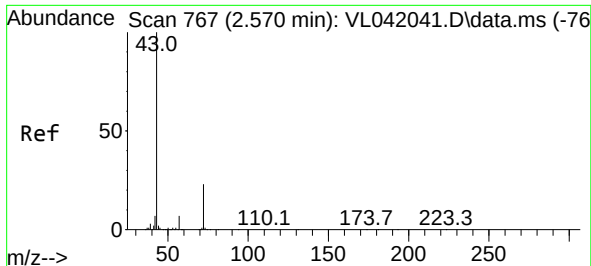
Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.981 min Scan# 1203
 Delta R.T. 0.003 min
 Lab File: VL042098.D
 Acq: 05 Mar 2025 11:37

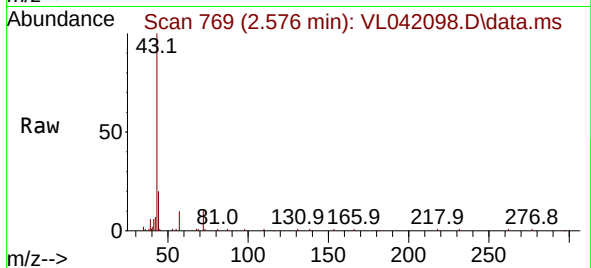
Tgt Ion:114 Resp: 384682
 Ion Ratio Lower Upper
 114 100
 63 26.4 20.1 30.1
 88 17.9 14.3 21.5





#34
2-Butanone
Concen: 0.330 ppbv m
RT: 2.576 min Scan# 769
Delta R.T. 0.006 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

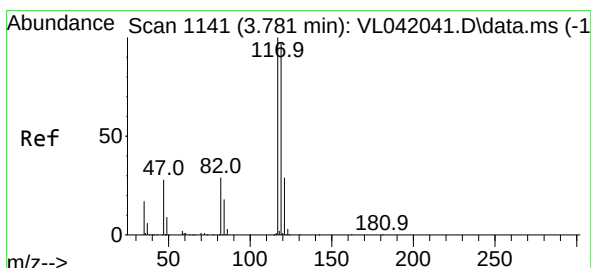
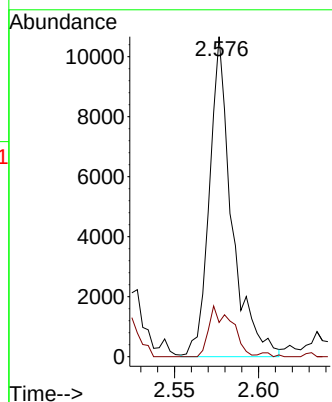
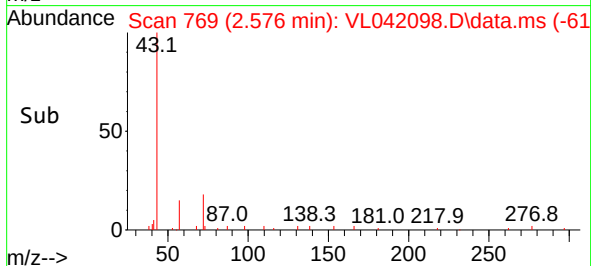
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 43 Resp: 9892
Ion Ratio Lower Upper
43 100
72 16.9 18.5 27.7

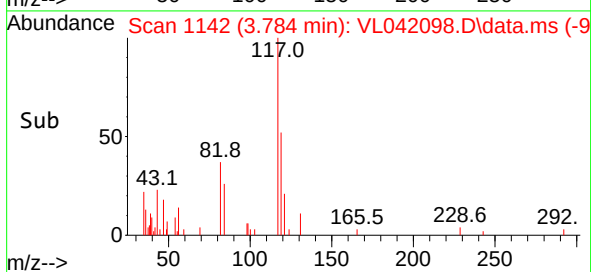
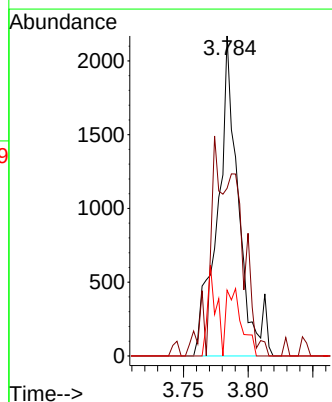
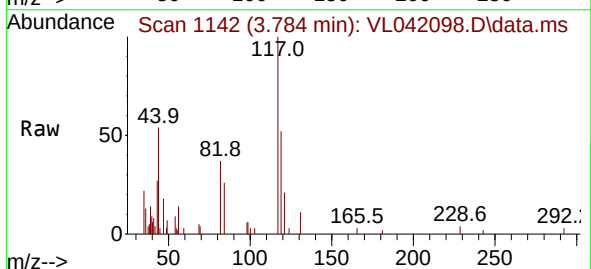
Manual Integrations
APPROVED

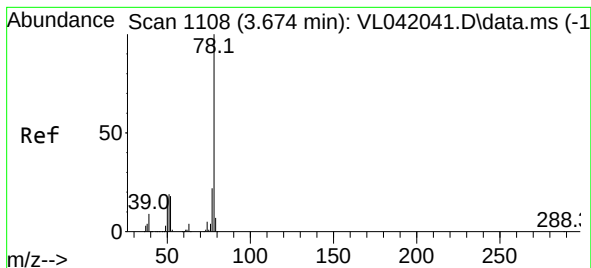
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#35
Carbon Tetrachloride
Concen: 0.092 ppbv m
RT: 3.784 min Scan# 1142
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

Tgt Ion:117 Resp: 2434
Ion Ratio Lower Upper
117 100
119 52.4 77.8 116.8#
121 20.6 23.4 35.0#





#36

Benzene

Concen: 0.211 ppbv

RT: 3.677 min Scan# 1109

Delta R.T. 0.003 min

Lab File: VL042098.D

Acq: 05 Mar 2025 11:37

Instrument :

MSVOA_L

ClientSampleId :

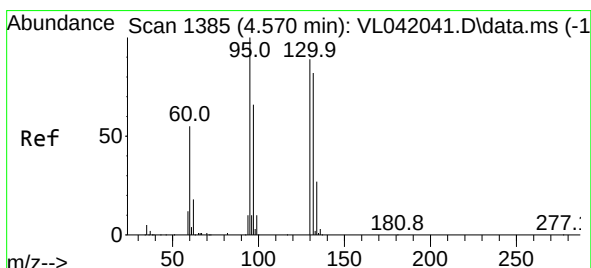
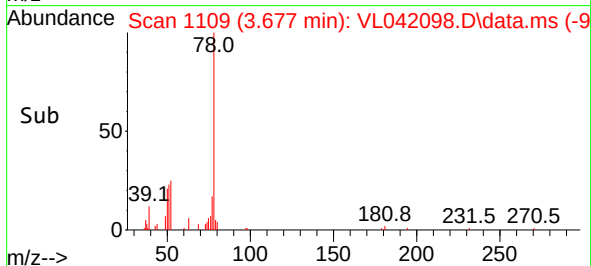
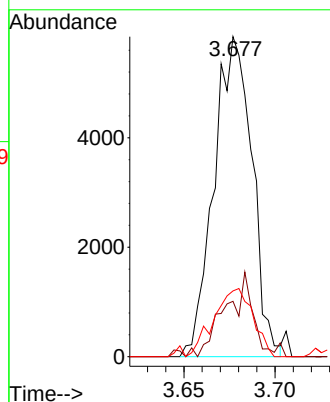
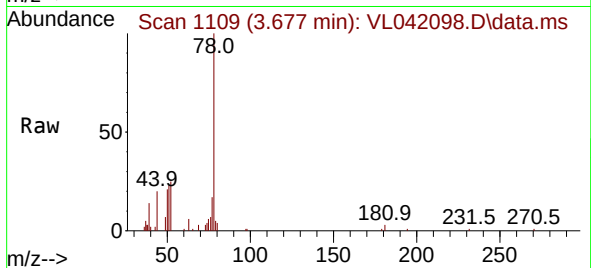
IA1

Tgt Ion: 78	Resp: 8514
Ion Ratio	Lower Upper
78 100	
77 15.5	17.7 26.5
50 20.6	13.9 20.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#38

Trichloroethene

Concen: 0.216 ppbv m

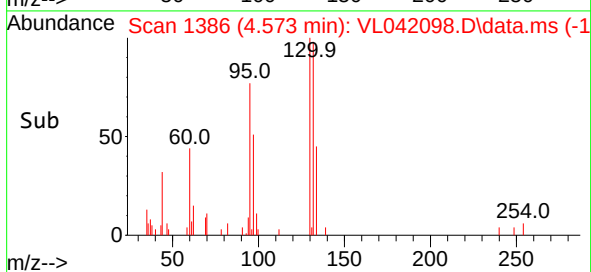
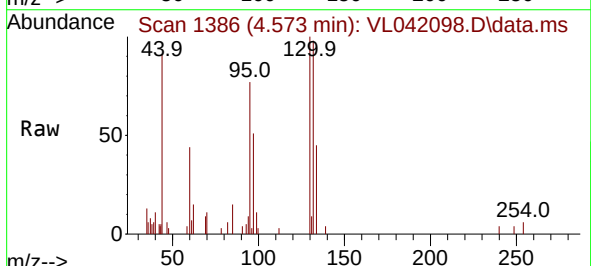
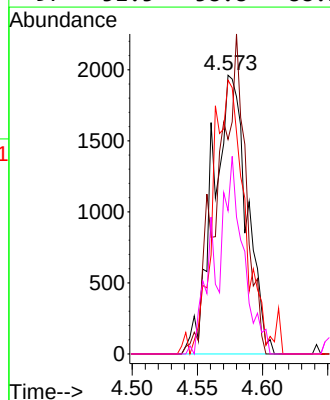
RT: 4.573 min Scan# 1386

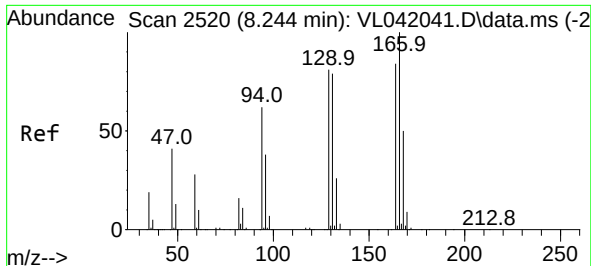
Delta R.T. 0.003 min

Lab File: VL042098.D

Acq: 05 Mar 2025 11:37

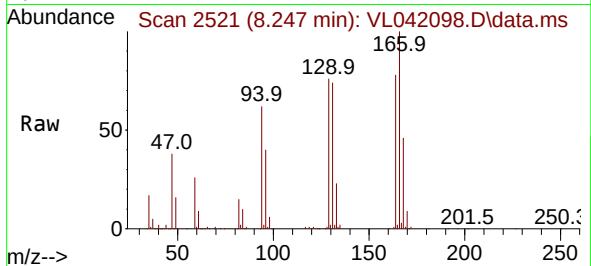
Tgt Ion:130	Resp: 3544
Ion Ratio	Lower Upper
130 100	
95 77.0	89.5 134.3#
132 98.2	73.8 110.6
97 51.5	58.8 88.2#





#52
Tetrachloroethene
Concen: 7.546 ppbv
RT: 8.247 min Scan# 2123
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

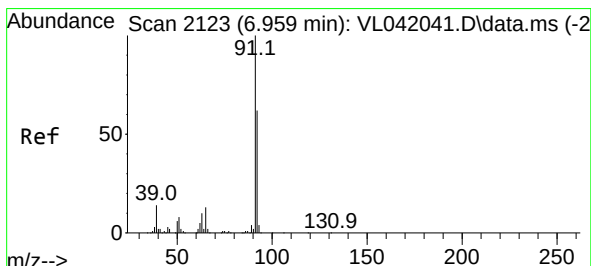
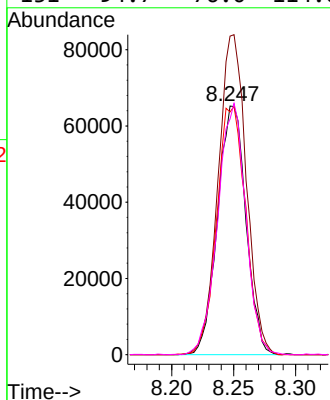
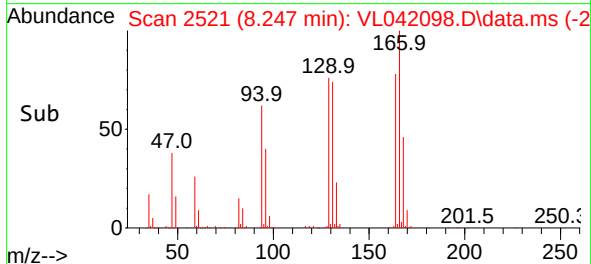
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion:164 Resp: 104028
Ion Ratio Lower Upper
164 100
166 128.1 95.7 143.5
129 97.6 77.1 115.7
131 94.7 76.0 114.0

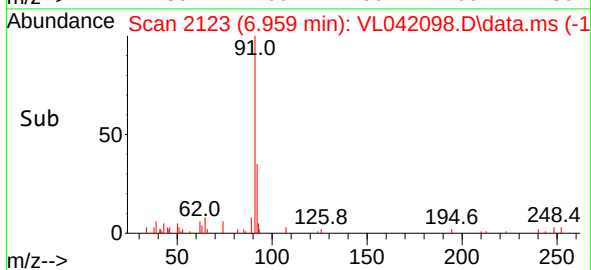
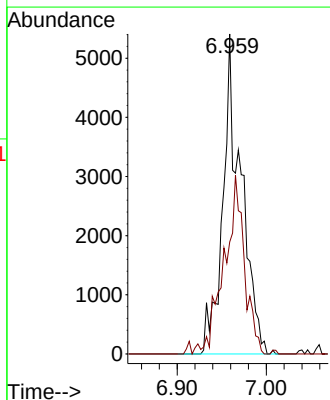
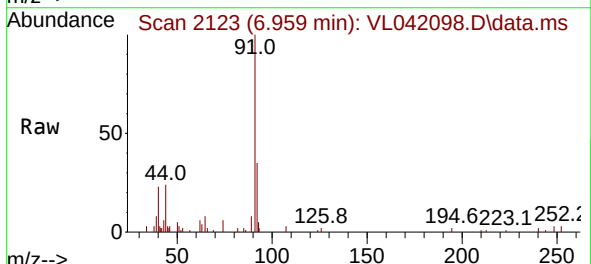
Manual Integrations
APPROVED

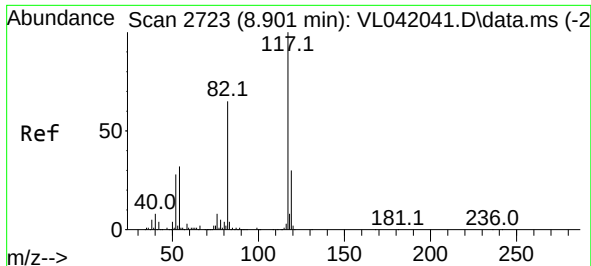
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#53
Toluene
Concen: 0.171 ppbv m
RT: 6.959 min Scan# 2123
Delta R.T. -0.000 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

Tgt Ion: 91 Resp: 7710
Ion Ratio Lower Upper
91 100
92 63.1 49.0 73.6





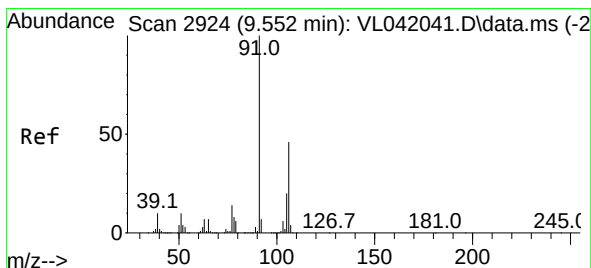
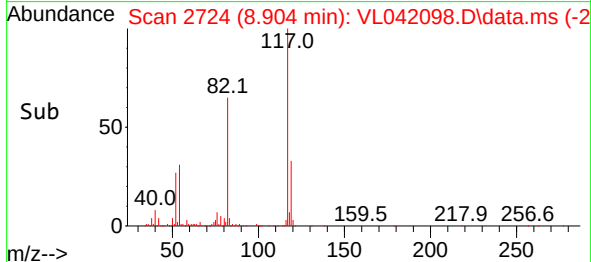
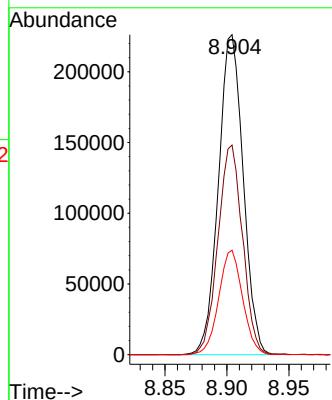
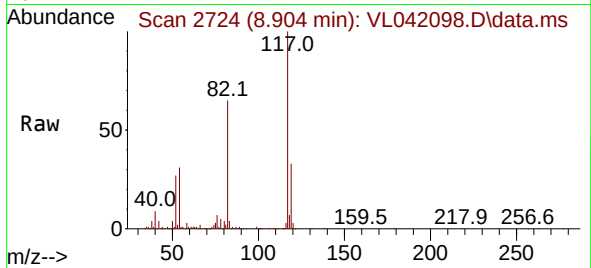
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.904 min Scan# 2723
Delta R.T. 0.003 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tgt Ion:117 Resp: 31566
Ion Ratio Lower Upper
117 100
82 64.9 55.0 82.6
119 31.5 25.9 38.9

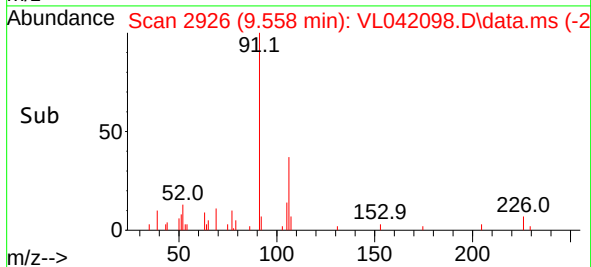
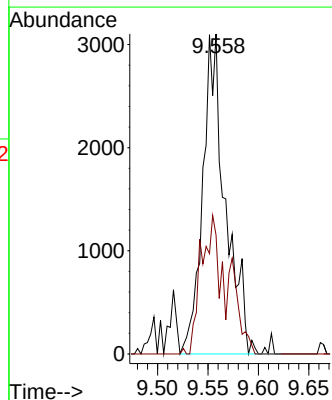
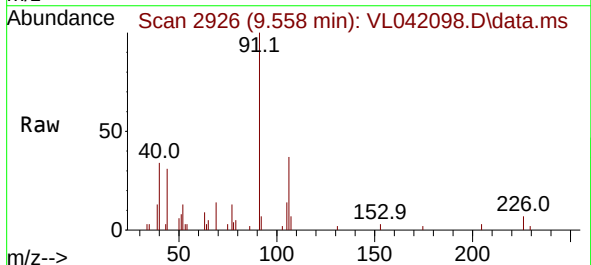
Manual Integrations
APPROVED

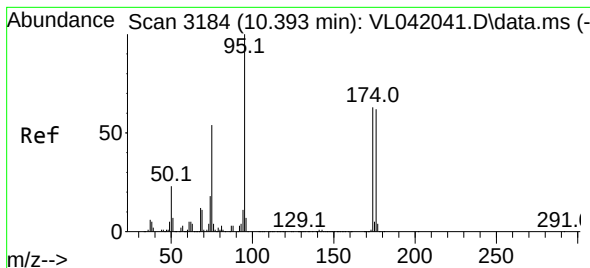
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#59
m/p-Xylene
Concen: 0.106 ppbv m
RT: 9.558 min Scan# 2926
Delta R.T. 0.006 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

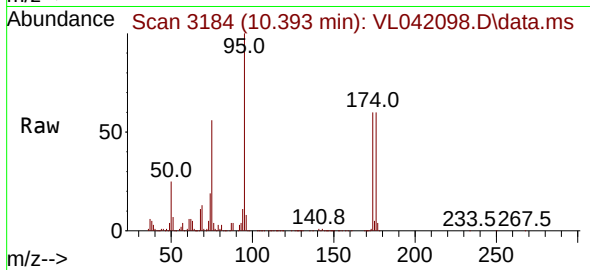
Tgt Ion: 91 Resp: 4886
Ion Ratio Lower Upper
91 100
106 49.7 0.0 0.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.750 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. -0.000 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

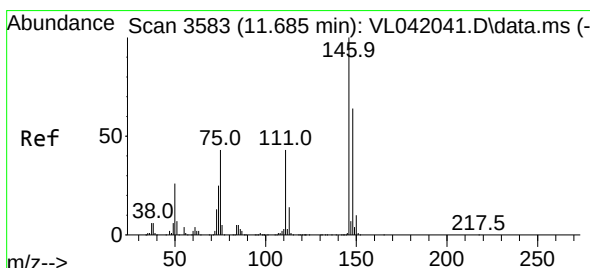
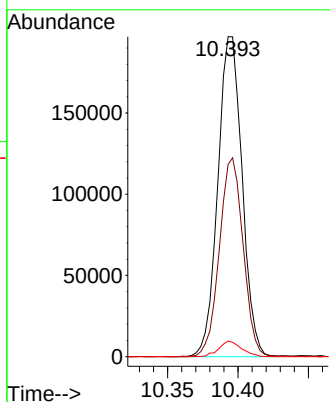
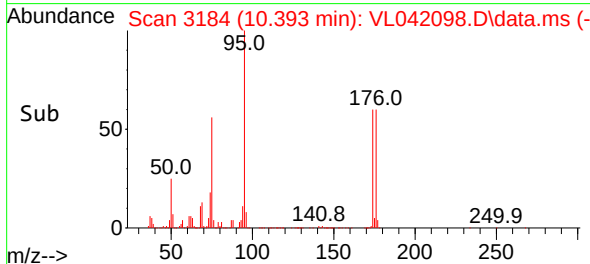
Instrument :
MSVOA_L
ClientSampleId :
IA1



Tgt Ion: 95 Resp: 23678
Ion Ratio Lower Upper
95 100
174 60.7 51.8 77.6
175 4.6 3.9 5.9

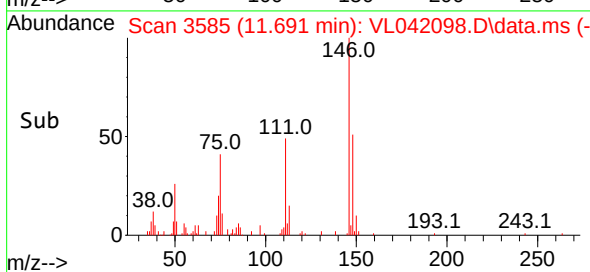
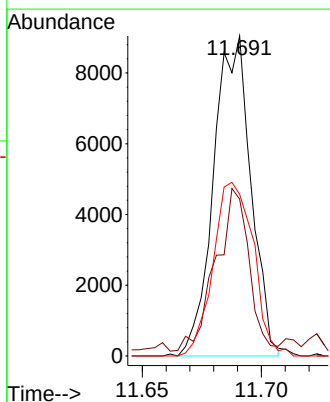
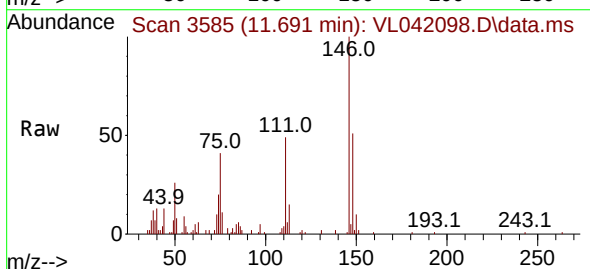
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#76
1,4-Dichlorobenzene
Concen: 0.310 ppbv
RT: 11.691 min Scan# 3585
Delta R.T. 0.006 min
Lab File: VL042098.D
Acq: 05 Mar 2025 11:37

Tgt Ion:146 Resp: 9825
Ion Ratio Lower Upper
146 100
111 56.9 21.5 64.5
148 58.5 31.6 95.0



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	IA2	SDG No.:	Q1483
Lab Sample ID:	Q1483-02	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042100.D	1		03/05/25 12:45	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.61	2.42		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.92	4.94		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	39.4	267	E	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	165000			2.806		
540-36-3	1,4-Difluorobenzene	384000			3.984		
3114-55-4	Chlorobenzene-d5	324000			8.907		

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\VL030525\
 Data File : VL042100.D
 Acq On : 05 Mar 2025 12:45
 Operator : SY/MD
 Sample : Q1483-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:06:23 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.806	49	164636	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	383796	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.907	117	323657	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.399	95	236227	9.487	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	10074	0.588	ppbv	99
3) Chlorodifluoromethane	1.482	51	117117	4.895	ppbv	94
4) Chloromethane	1.541	50	4722	0.746	ppbv #	88
7) Chloroethane	1.712	64	1286	0.529	ppbv #	78
9) Propene	1.495	41	62252m	6.386	ppbv	
10) Heptane	5.017	43	6441m	0.212	ppbv	
11) Trichlorofluoromethane	1.887	101	11993	0.699	ppbv	93
13) Ethanol	1.735	45	1322710	2137.524	ppbv	98
15) Acetone	1.845	43	1668409	114.753	ppbv #	84
19) Isopropyl Alcohol	1.916	45	5585741	668.826	ppbv #	34
20) Methylene Chloride	2.075	84	109826	19.970	ppbv	93
25) Ethyl Acetate	2.858	43	109349	1.879	ppbv #	88
27) Carbon Disulfide	2.162	76	1935	0.121	ppbv #	60
29) Chloroform	2.868	83	24361	0.769	ppbv #	83
31) cis-1,2-Dichloroethene	2.742	61	13521	0.607	ppbv	94
34) 2-Butanone	2.576	43	36674	1.227	ppbv	99
35) Carbon Tetrachloride	3.784	117	2378m	0.090	ppbv	
36) Benzene	3.680	78	9735	0.242	ppbv #	82
38) Trichloroethene	4.580	130	15072m	0.919	ppbv	
41) Tetrahydrofuran	3.088	42	15212m	0.861	ppbv	
43) Methyl Methacrylate	4.920	69	63798	4.066	ppbv	96
49) Bromoform	9.509	173	2024m	0.096	ppbv	
52) Tetrachloroethene	8.254	164	542455	39.439	ppbv	96
53) Toluene	6.975	91	19809	0.441	ppbv	98
59) m/p-Xylene	9.555	91	8116m	0.171	ppbv	
74) 1,2,4-Trimethylbenzene	11.555	105	5959	0.105	ppbv #	69
76) 1,4-Dichlorobenzene	11.694	146	6297	0.194	ppbv	91

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

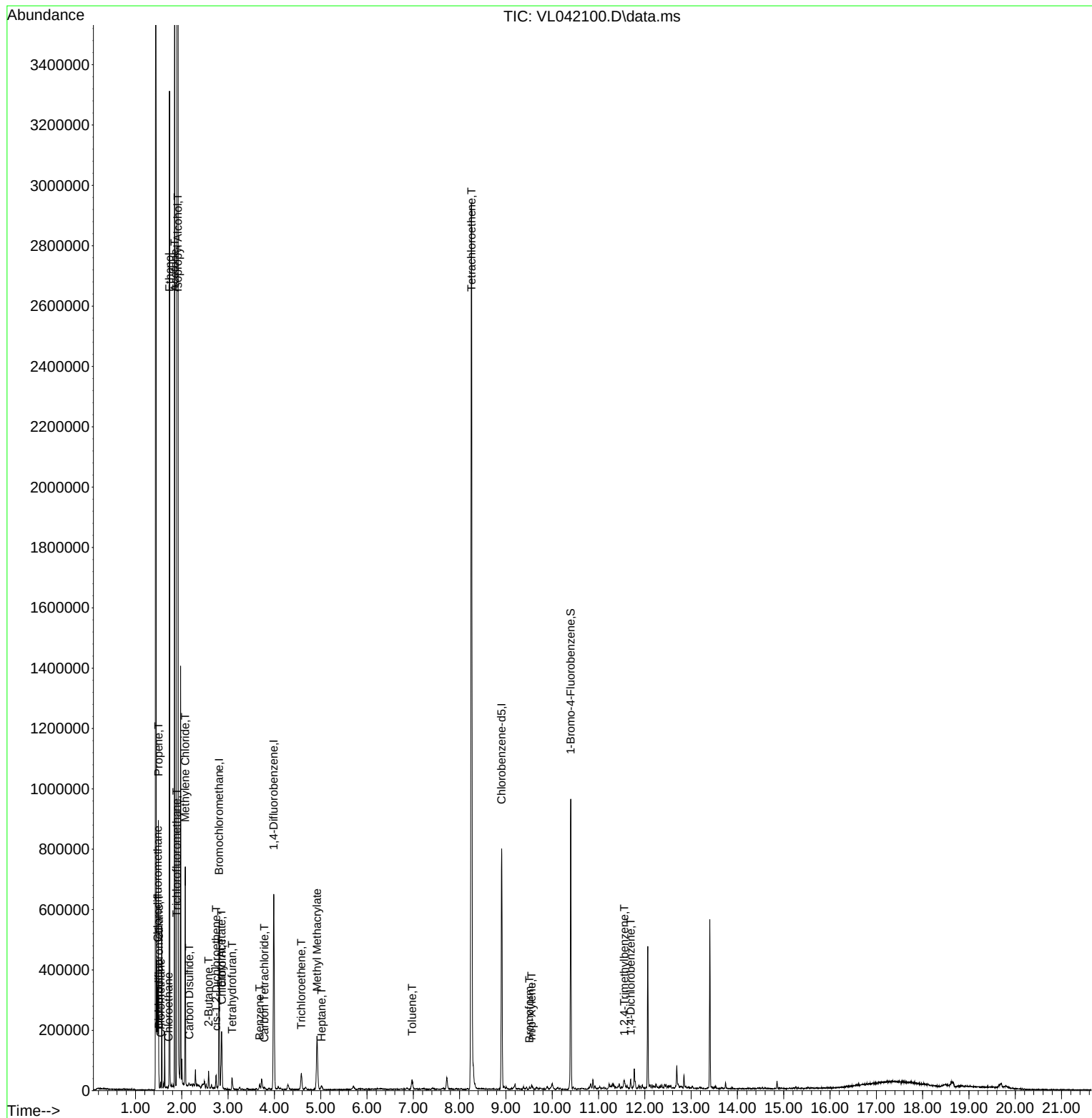
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Data File : VL042100.D
Acq On : 05 Mar 2025 12:45
Operator : SY/MD
Sample : Q1483-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

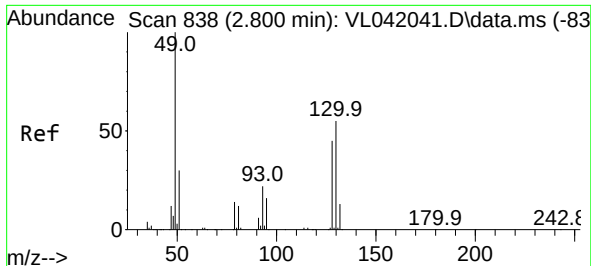
Instrument :
MSVOA_L
ClientSampleId :
IA2

Quant Time: Mar 06 01:06:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

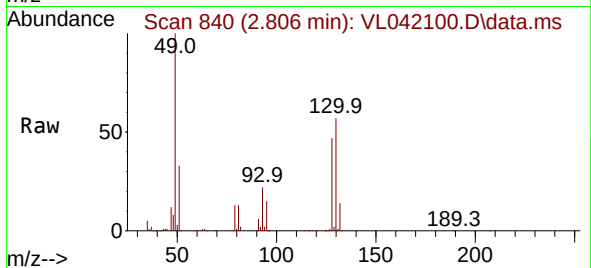
Reviewed By : Semsettin Yesilyurt 03/06/2025
Supervised By : Mahesh Dadoda 03/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

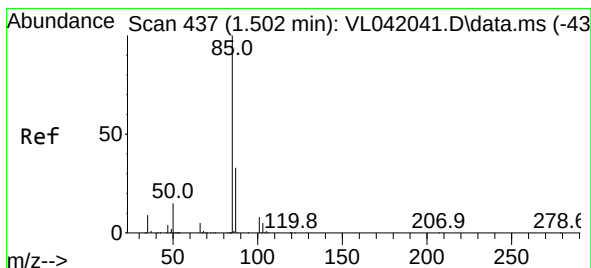
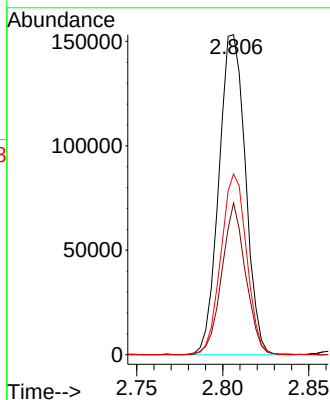
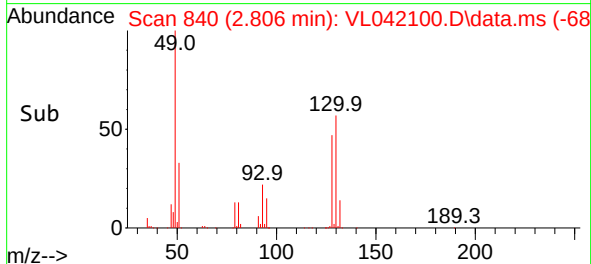
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 49 Resp: 164630
Ion Ratio Lower Upper
49 100
128 42.4 21.6 64.8
130 54.6 27.8 83.4

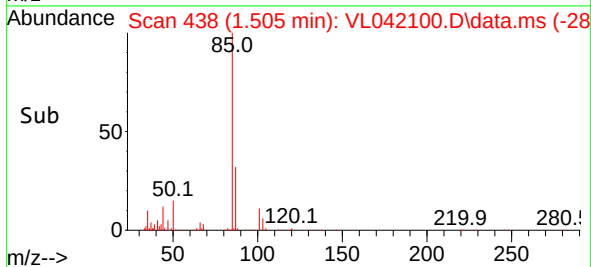
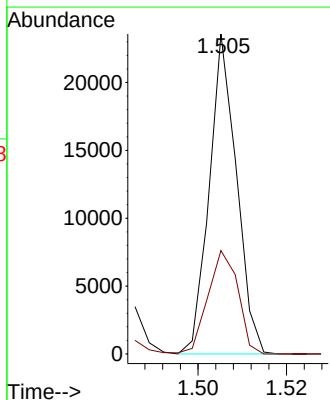
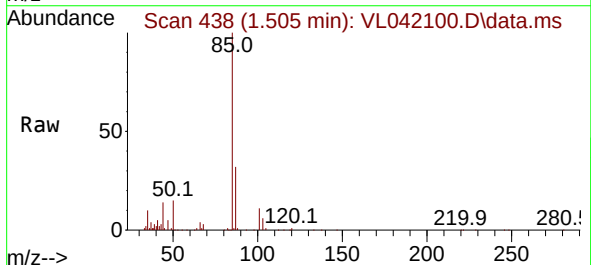
Manual Integrations
APPROVED

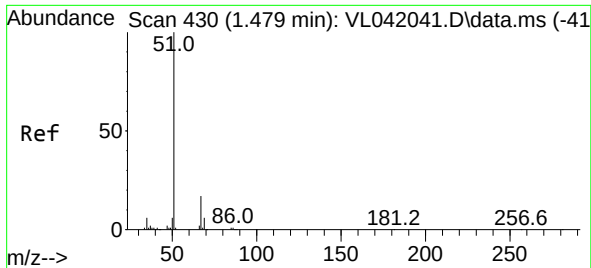
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#2
Dichlorodifluoromethane
Concen: 0.588 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

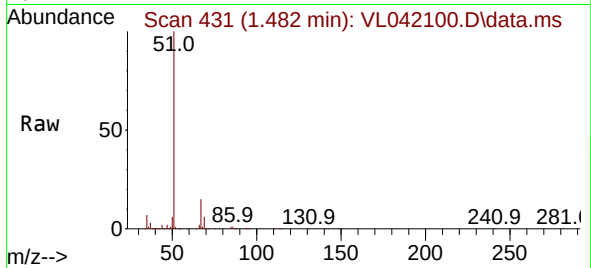
Tgt Ion: 85 Resp: 10074
Ion Ratio Lower Upper
85 100
87 32.3 26.4 39.6





#3
Chlorodifluoromethane
Concen: 4.895 ppbv
RT: 1.482 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

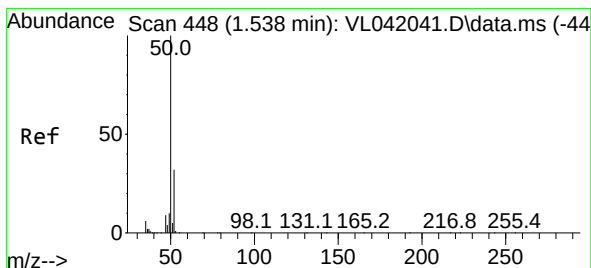
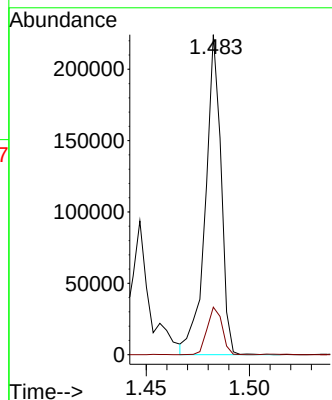
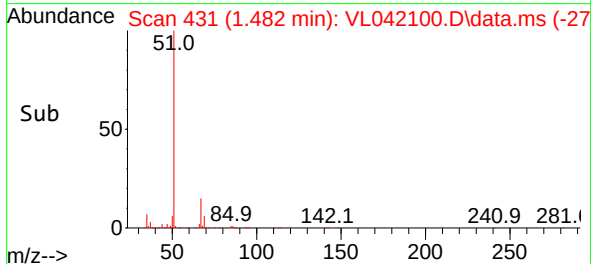
Instrument :
MSVOA_L
ClientSampleId :
IA2



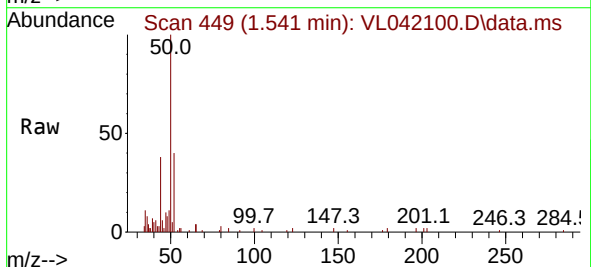
Tgt Ion: 51 Resp: 11711
Ion Ratio Lower Upper
51 100
67 14.6 13.7 20.5

Manual Integrations
APPROVED

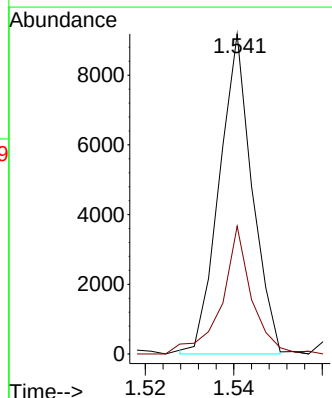
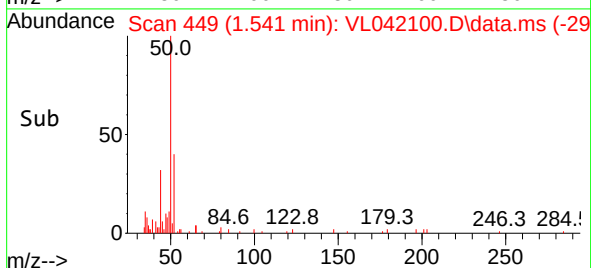
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

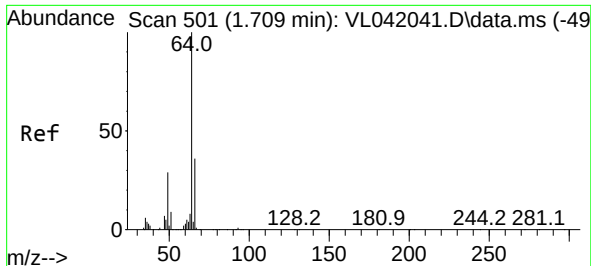


#4
Chloromethane
Concen: 0.746 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



Tgt Ion: 50 Resp: 4722
Ion Ratio Lower Upper
50 100
52 38.3 25.4 38.0#





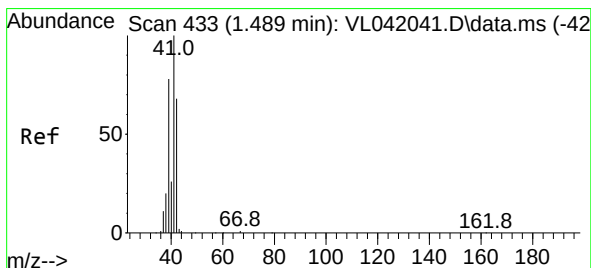
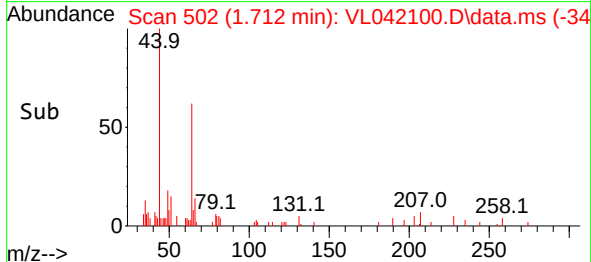
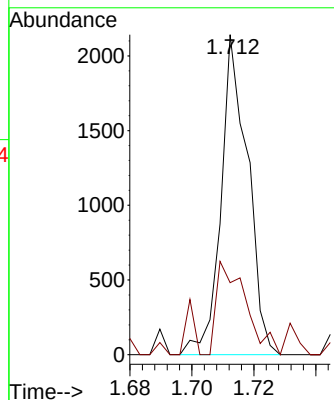
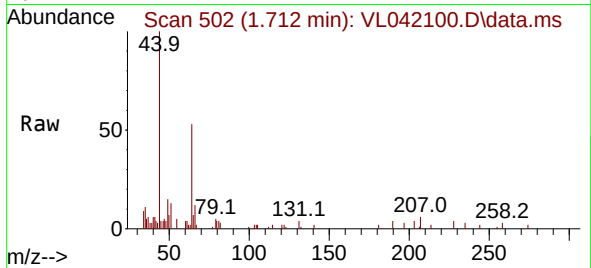
#7
Chloroethane
Concen: 0.529 ppbv
RT: 1.712 min Scan# 501
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 64 Resp: 1280
Ion Ratio Lower Upper
64 100
66 22.5 28.4 42.6

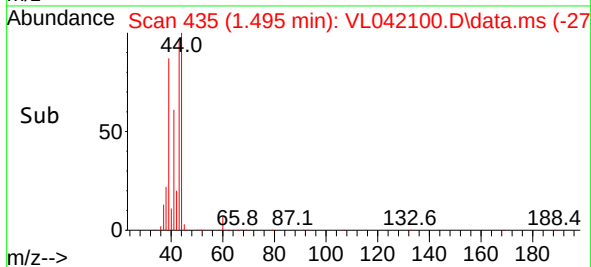
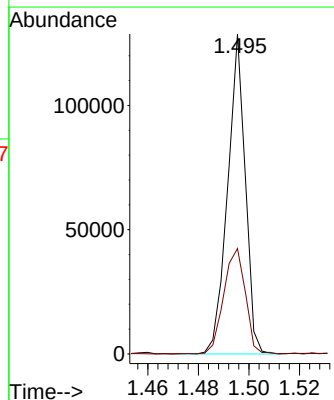
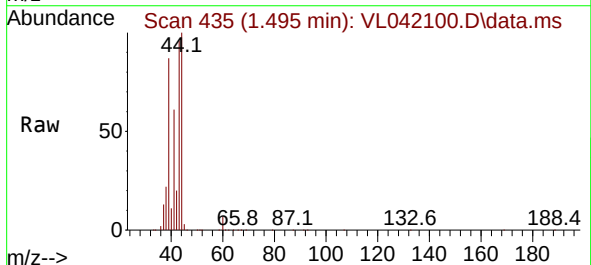
Manual Integrations
APPROVED

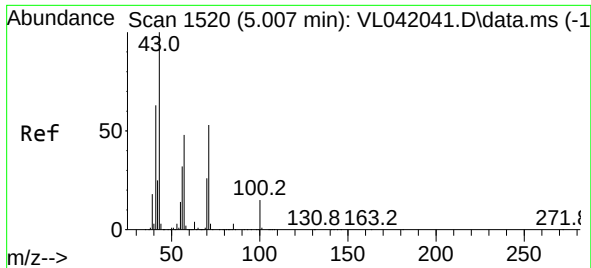
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#9
Propene
Concen: 6.386 ppbv m
RT: 1.495 min Scan# 435
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Tgt Ion: 41 Resp: 62252
Ion Ratio Lower Upper
41 100
42 60.3 55.8 83.6





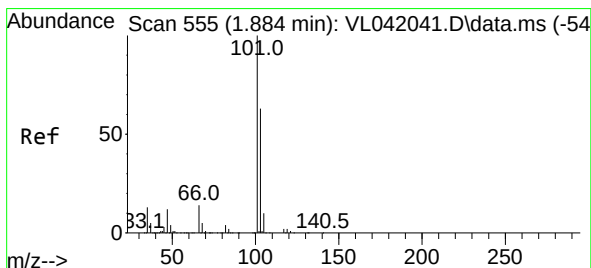
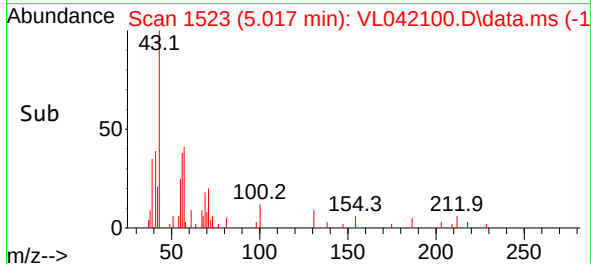
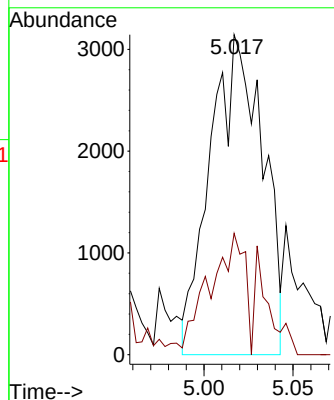
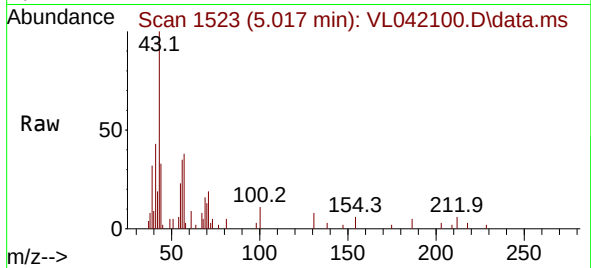
#10
Heptane
Concen: 0.212 ppbv m
RT: 5.017 min Scan# 1523
Delta R.T. 0.009 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 43 Resp: 644
Ion Ratio Lower Upper
43 100
57 37.2 39.4 59.0

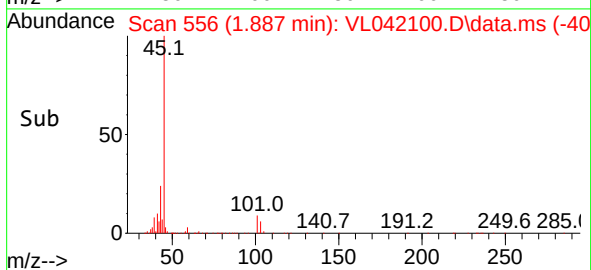
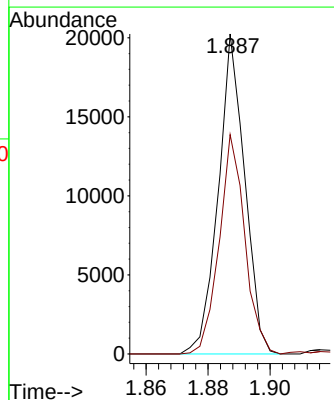
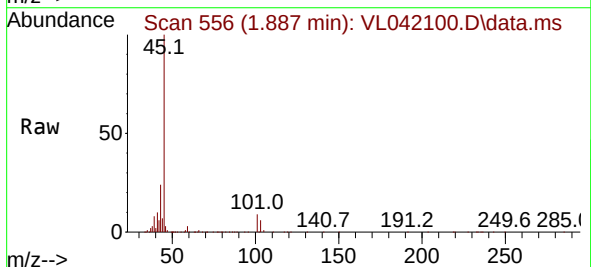
Manual Integrations
APPROVED

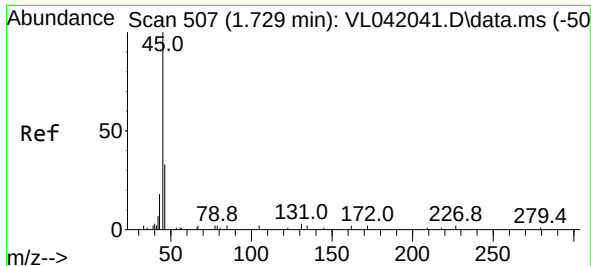
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#11
Trichlorofluoromethane
Concen: 0.699 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

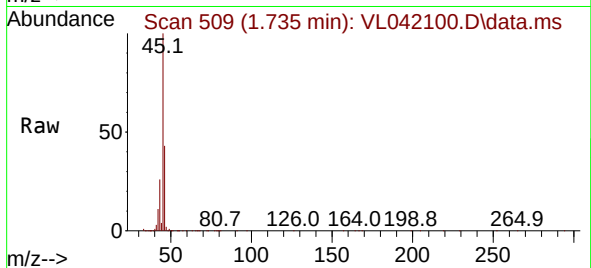
Tgt Ion:101 Resp: 11993
Ion Ratio Lower Upper
101 100
103 68.6 50.6 75.8





#13
Ethanol
Concen: 2137.524 ppbv
RT: 1.735 min Scan# 509
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

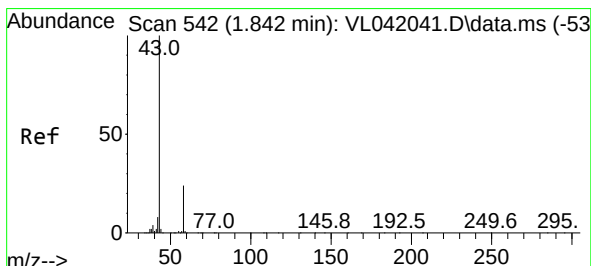
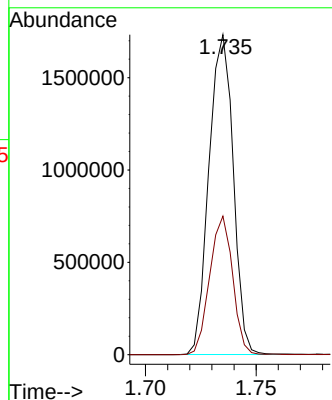
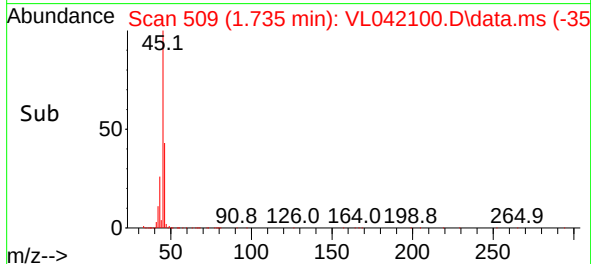
Instrument :
MSVOA_L
ClientSampleId :
IA2



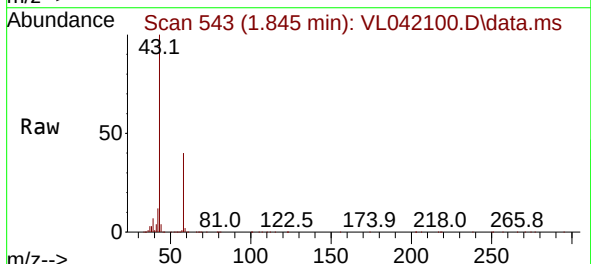
Tgt Ion: 45 Resp: 1322710
Ion Ratio Lower Upper
45 100
46 41.1 17.1 68.3

Manual Integrations
APPROVED

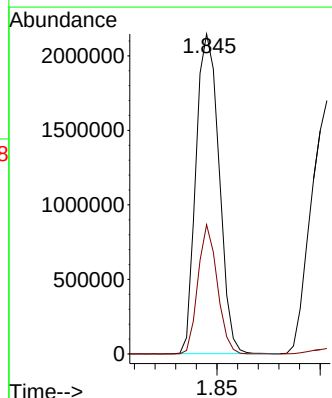
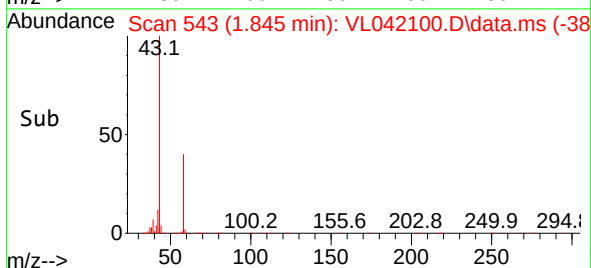
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

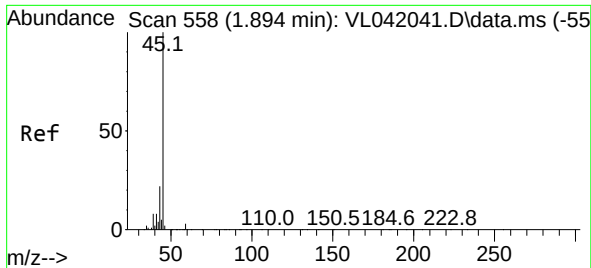


#15
Acetone
Concen: 114.753 ppbv
RT: 1.845 min Scan# 543
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



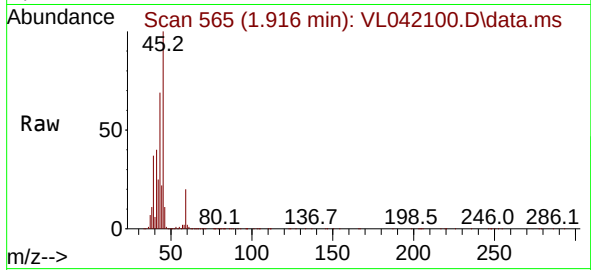
Tgt Ion: 43 Resp: 1668409
Ion Ratio Lower Upper
43 100
58 33.9 20.7 31.1#





#19
Isopropyl Alcohol
Concen: 668.826 ppbv
RT: 1.916 min Scan# 558
Delta R.T. 0.022 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

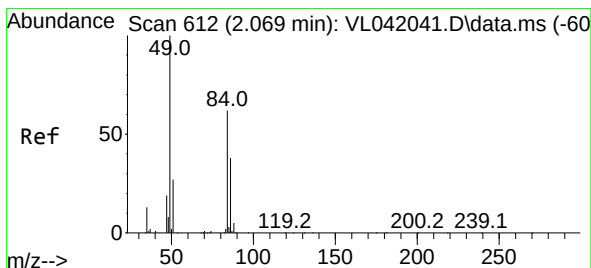
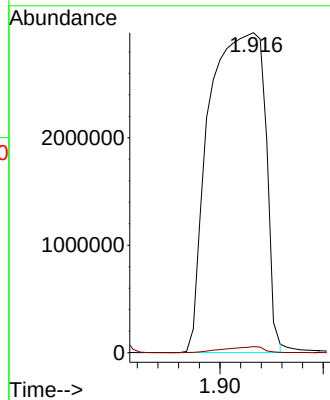
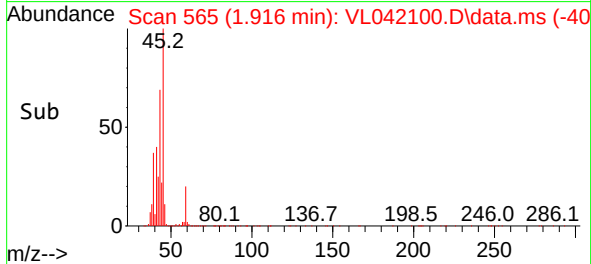
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 45 Resp: 558574
Ion Ratio Lower Upper
45 100
58 1.4 35.3 52.9

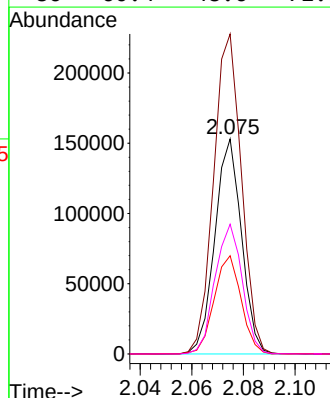
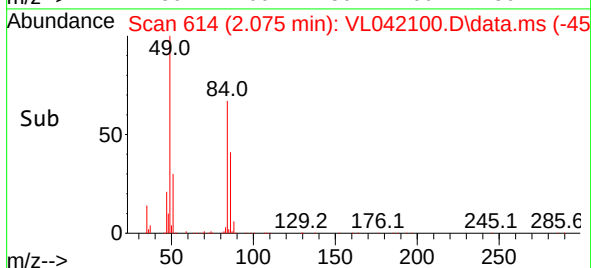
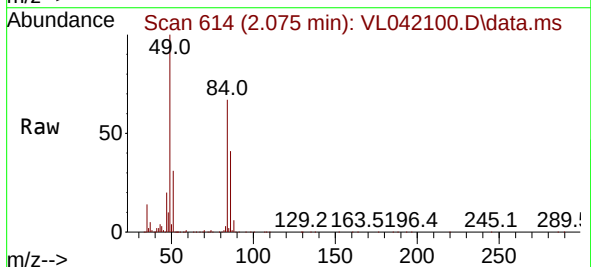
Manual Integrations
APPROVED

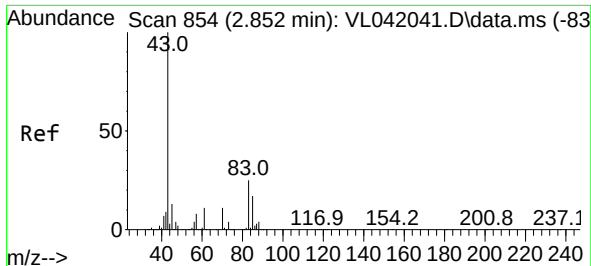
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#20
Methylene Chloride
Concen: 19.970 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

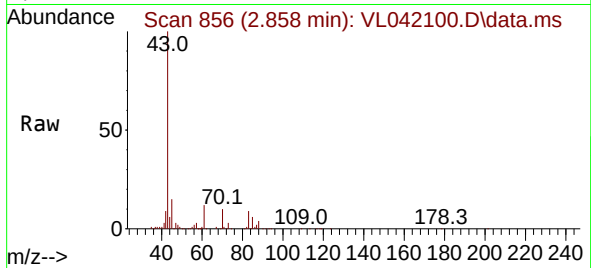
Tgt Ion: 84 Resp: 109826
Ion Ratio Lower Upper
84 100
49 148.7 130.0 195.0
51 45.6 37.4 56.0
86 60.4 48.6 72.8





#25
Ethyl Acetate
Concen: 1.879 ppbv
RT: 2.858 min Scan# 856
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

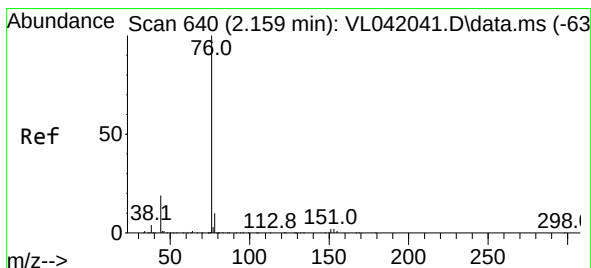
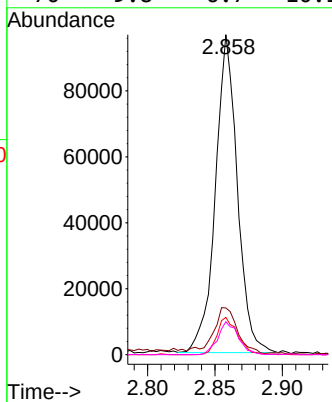
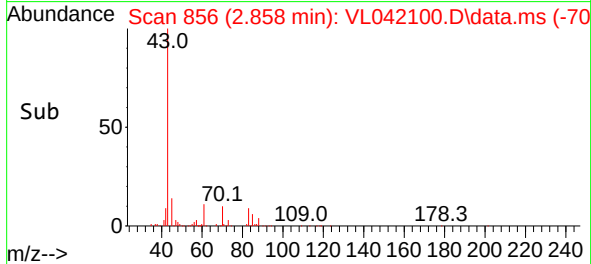
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion: 43 Resp: 109349
Ion Ratio Lower Upper
43 100
45 19.0 8.1 12.1#
61 11.1 7.2 10.8#
70 9.8 6.7 10.1#

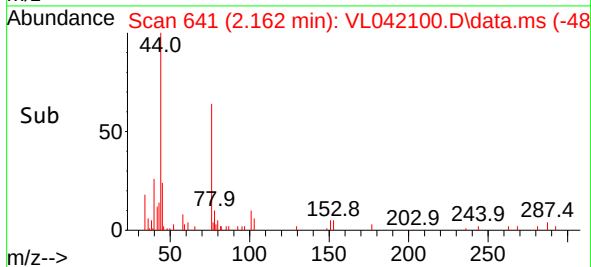
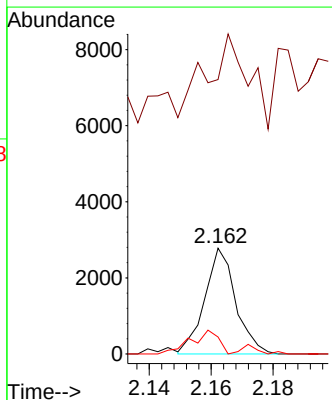
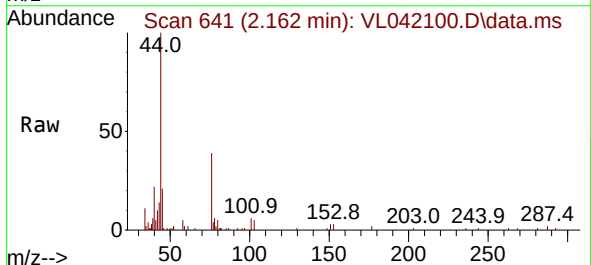
Manual Integrations
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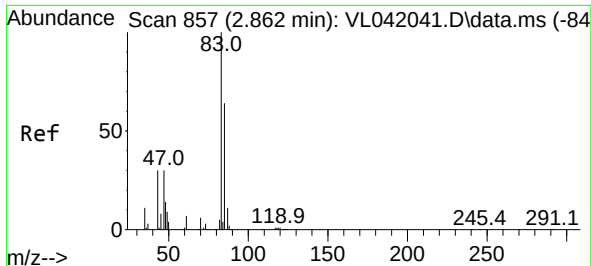
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#27
Carbon Disulfide
Concen: 0.121 ppbv
RT: 2.162 min Scan# 641
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Tgt Ion: 76 Resp: 1935
Ion Ratio Lower Upper
76 100
44 0.0 16.2 24.2#
78 24.3 9.4 14.0#





#29

Chloroform

Concen: 0.769 ppbv

RT: 2.868 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

IA2

Tgt Ion: 83 Resp: 2436

Ion Ratio Lower Upper

83 100

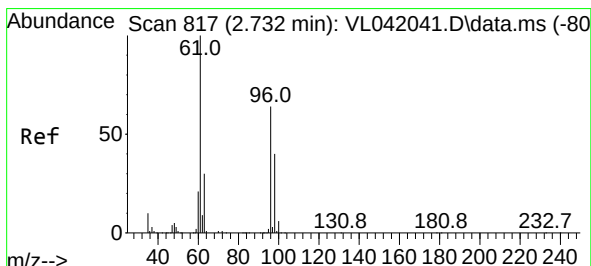
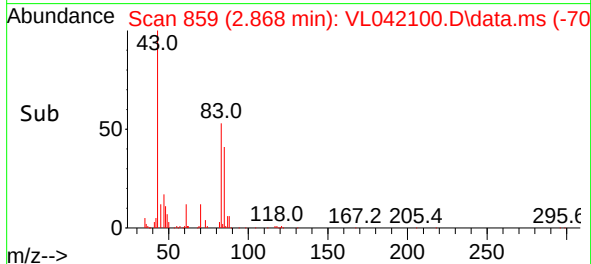
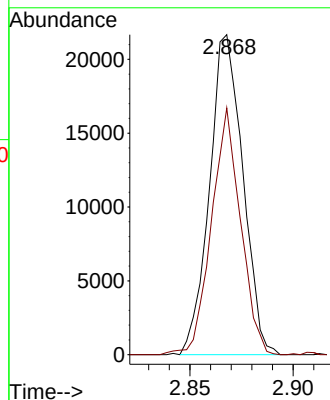
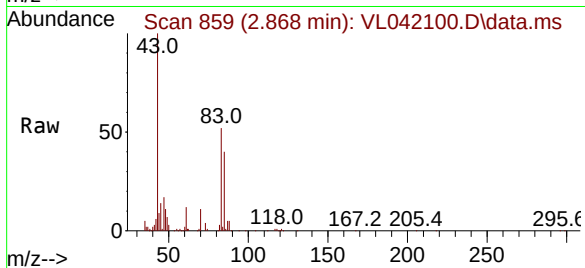
85 77.1 51.2 76.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#31

cis-1,2-Dichloroethene

Concen: 0.607 ppbv

RT: 2.742 min Scan# 820

Delta R.T. 0.009 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

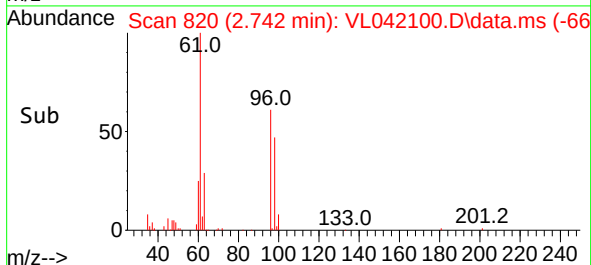
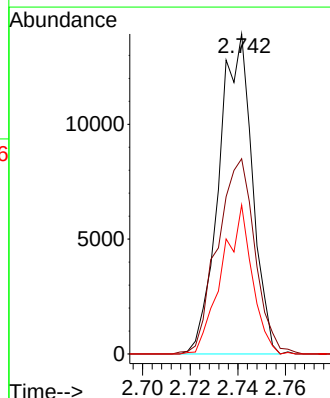
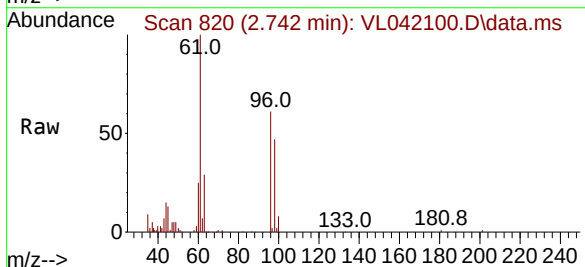
Tgt Ion: 61 Resp: 13521

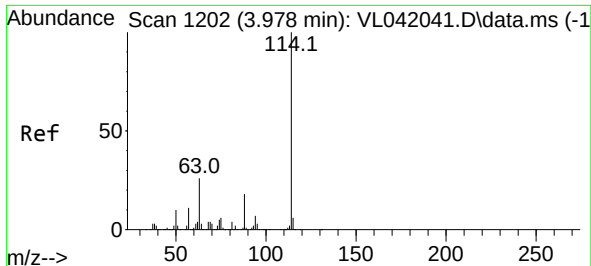
Ion Ratio Lower Upper

61 100

96 62.4 51.5 77.3

98 46.6 32.0 48.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.984 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

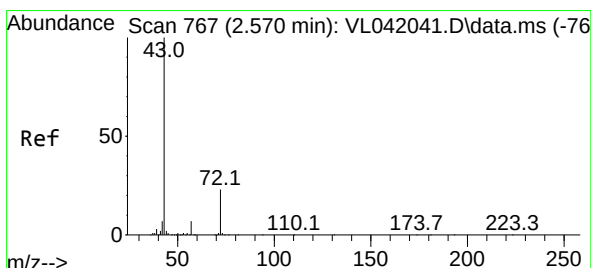
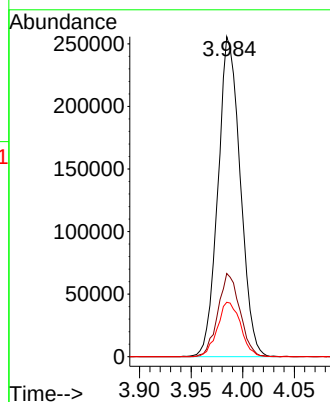
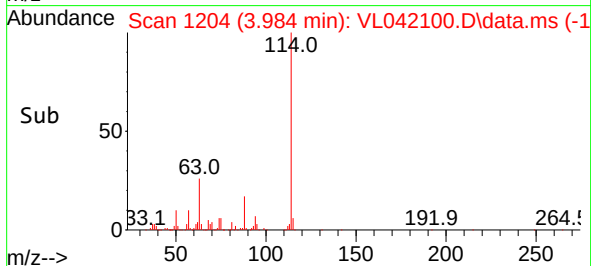
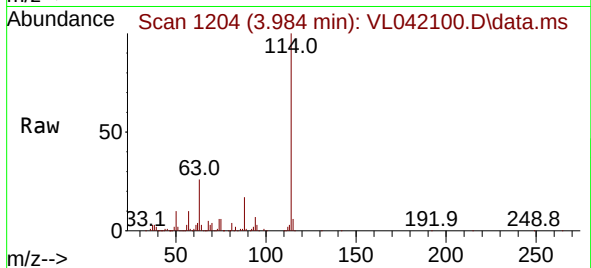
IA2

Tgt Ion:114 Resp: 383790
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.1 30.1
 88 17.7 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



#34

2-Butanone

Concen: 1.227 ppbv

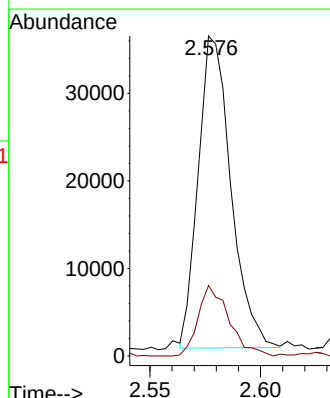
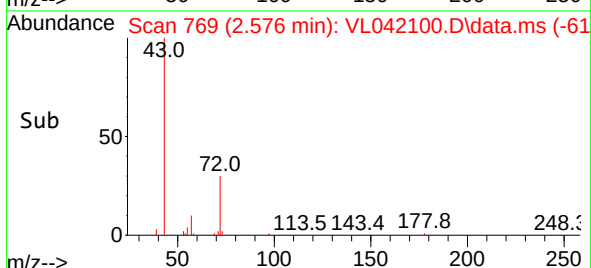
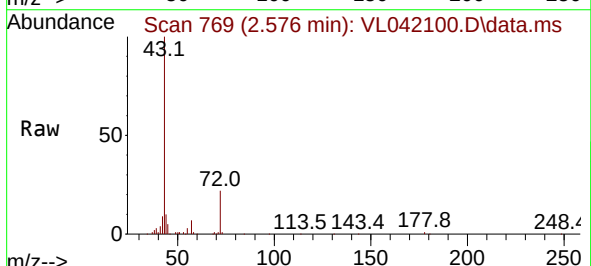
RT: 2.576 min Scan# 769

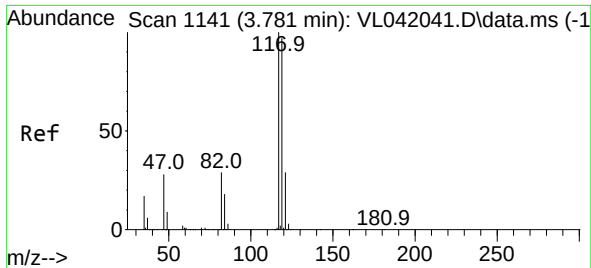
Delta R.T. 0.006 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

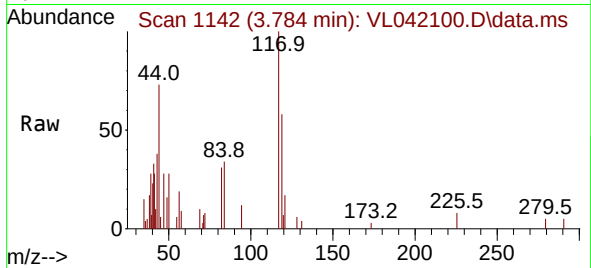
Tgt Ion: 43 Resp: 36674
 Ion Ratio Lower Upper
 43 100
 72 22.5 18.5 27.7





#35
Carbon Tetrachloride
Concen: 0.090 ppbv m
RT: 3.784 min Scan# 1141
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

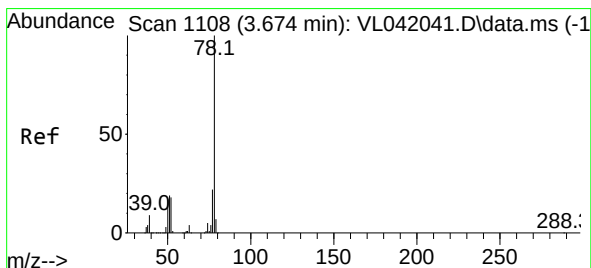
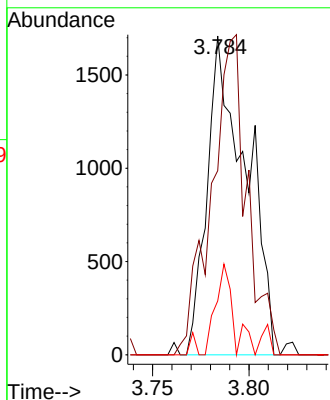
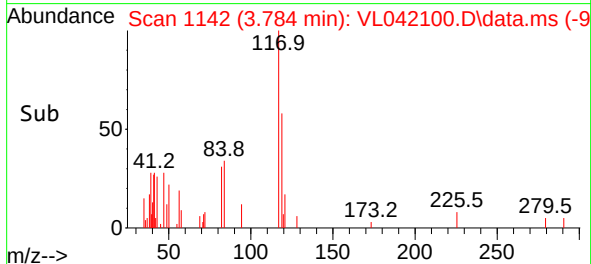
Instrument :
MSVOA_L
ClientSampleId :
IA2



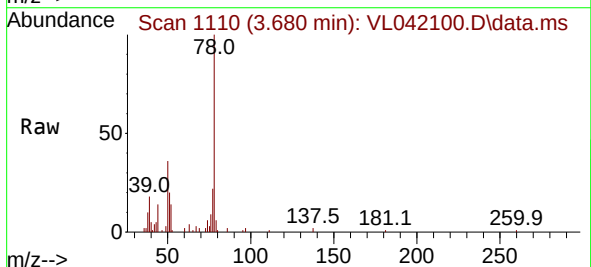
Tgt Ion:117 Resp: 2378
Ion Ratio Lower Upper
117 100
119 57.8 77.8 116.8
121 16.9 23.4 35.0

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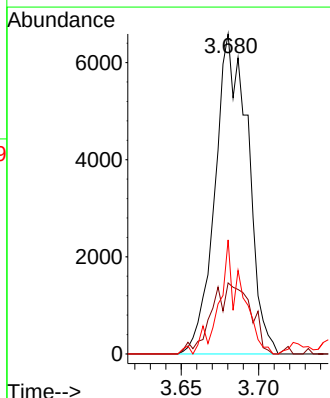
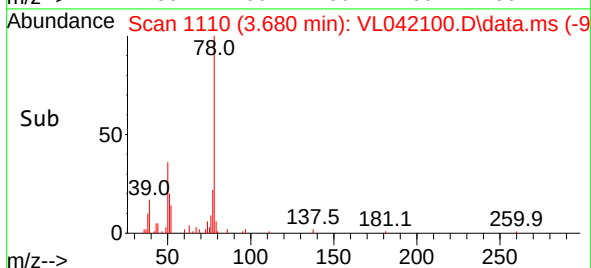
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

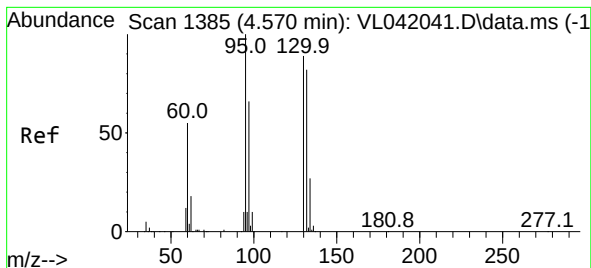


#36
Benzene
Concen: 0.242 ppbv
RT: 3.680 min Scan# 1110
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



Tgt Ion: 78 Resp: 9735
Ion Ratio Lower Upper
78 100
77 22.2 17.7 26.5
50 35.6 13.9 20.9





#38

Trichloroethene

Concen: 0.919 ppbv m

RT: 4.580 min Scan# 1388

Delta R.T. 0.010 min

Lab File: VL042100.D

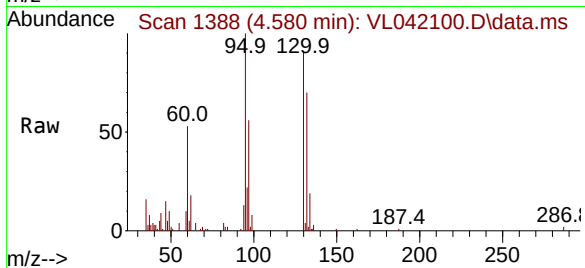
Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

IA2



Tgt Ion:130 Resp: 15072

Ion Ratio Lower Upper

130 100

95 110.2 89.5 134.3

132 77.7 73.8 110.6

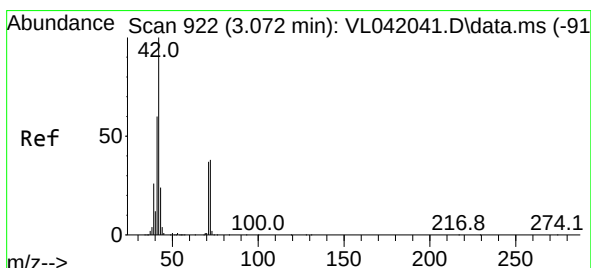
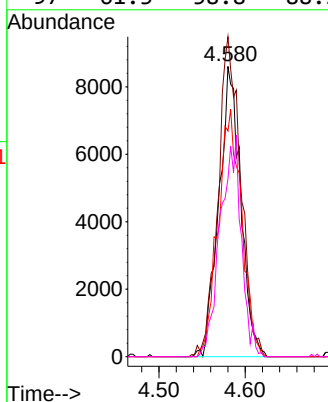
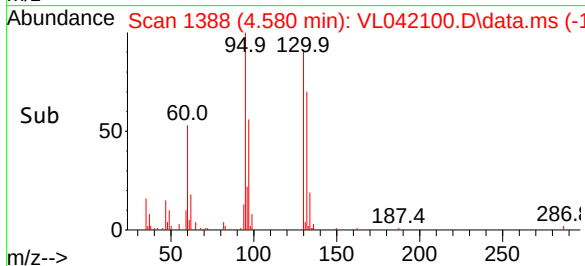
97 61.3 58.8 88.2

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#41

Tetrahydrofuran

Concen: 0.861 ppbv m

RT: 3.088 min Scan# 927

Delta R.T. 0.016 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

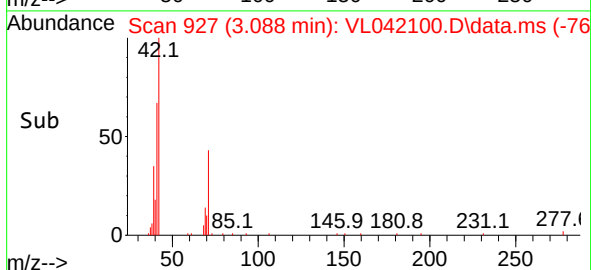
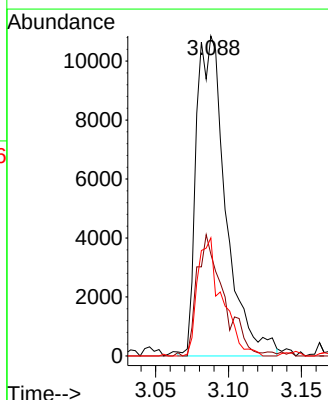
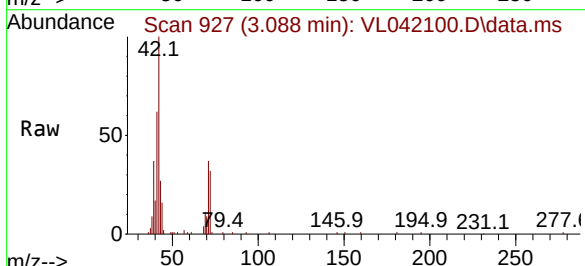
Tgt Ion: 42 Resp: 15212

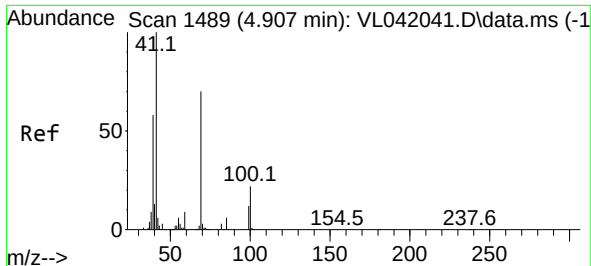
Ion Ratio Lower Upper

42 100

72 0.0 30.2 45.2#

71 0.0 28.2 42.4#





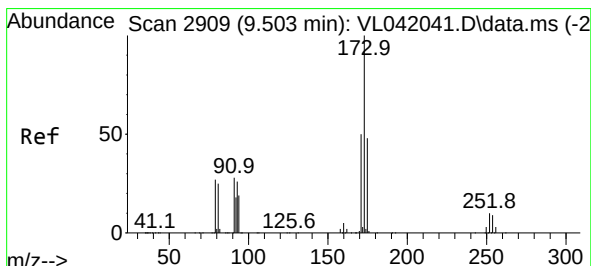
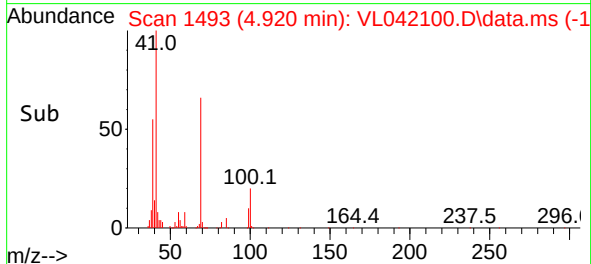
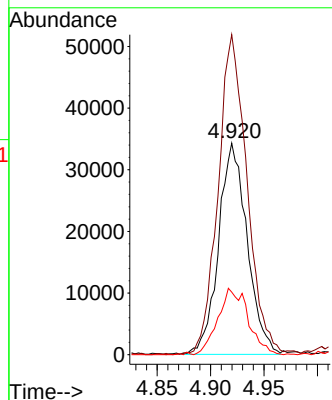
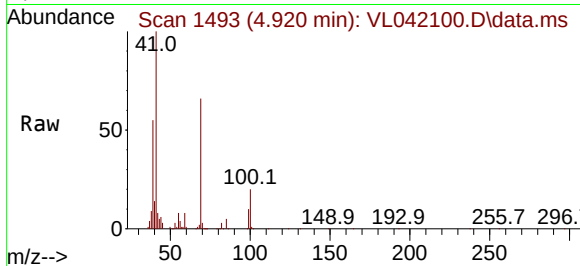
#43
Methyl Methacrylate
Concen: 4.066 ppbv
RT: 4.920 min Scan# 1489
Delta R.T. 0.013 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Instrument :
MSVOA_L
ClientSampleId :
IA2

Tgt Ion: 69 Resp: 63798
Ion Ratio Lower Upper
69 100
41 154.1 118.2 177.4
100 33.5 27.0 40.4

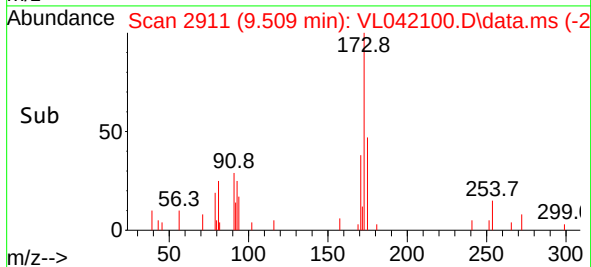
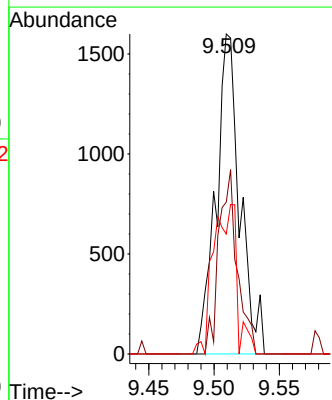
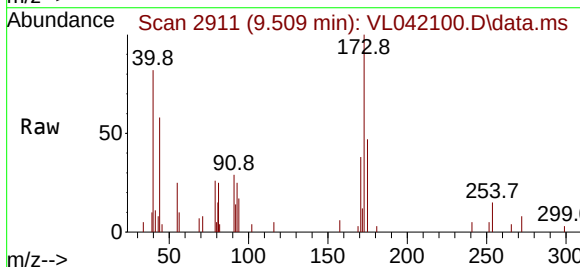
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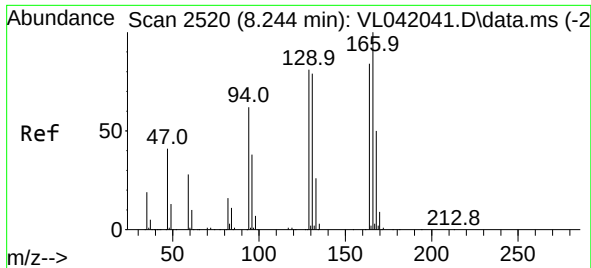
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#49
Bromoform
Concen: 0.096 ppbv m
RT: 9.509 min Scan# 2911
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

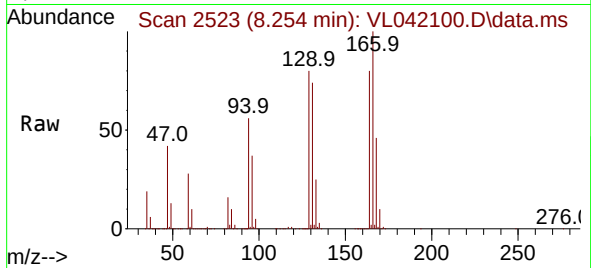
Tgt Ion:173 Resp: 2024
Ion Ratio Lower Upper
173 100
175 44.5 38.3 57.5
171 46.6 40.2 60.2





#52
Tetrachloroethene
Concen: 39.439 ppbv
RT: 8.254 min Scan# 2128
Delta R.T. 0.009 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

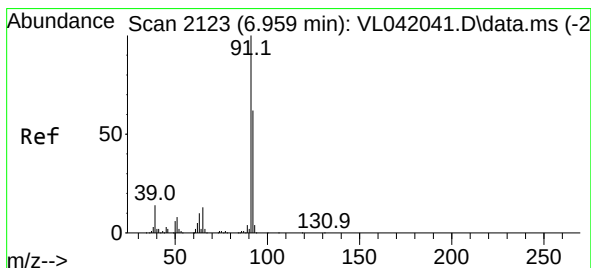
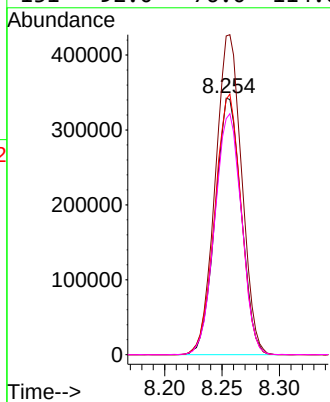
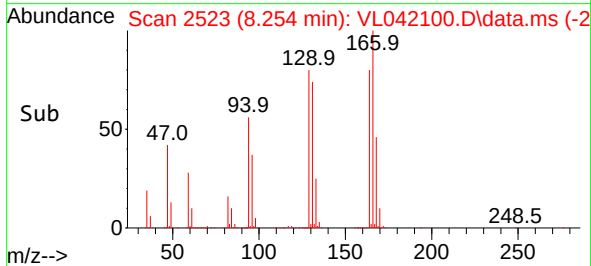
Instrument :
MSVOA_L
ClientSampleId :
IA2



Tgt Ion:164 Resp: 54245
Ion Ratio Lower Upper
164 100
166 124.2 95.7 143.5
129 99.5 77.1 115.7
131 92.0 76.0 114.0

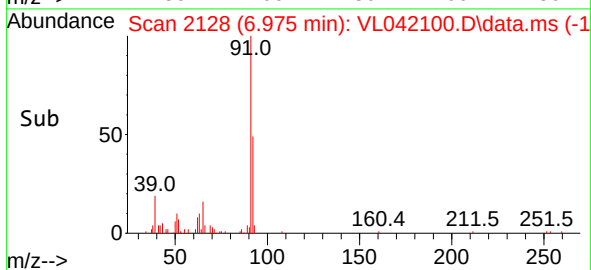
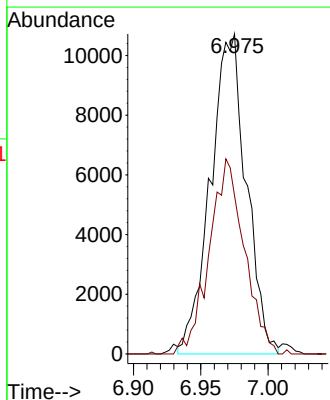
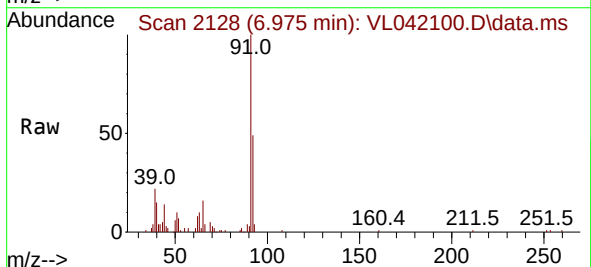
Manual Integrations
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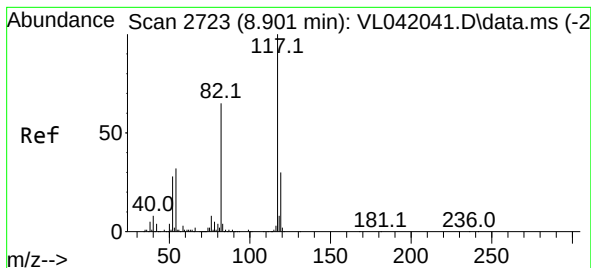
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#53
Toluene
Concen: 0.441 ppbv
RT: 6.975 min Scan# 2128
Delta R.T. 0.016 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

Tgt Ion: 91 Resp: 19809
Ion Ratio Lower Upper
91 100
92 59.9 49.0 73.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.907 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

Instrument :

MSVOA_L

ClientSampleId :

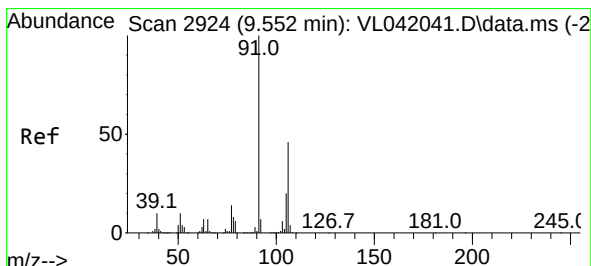
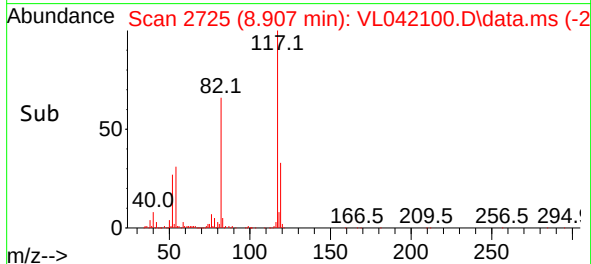
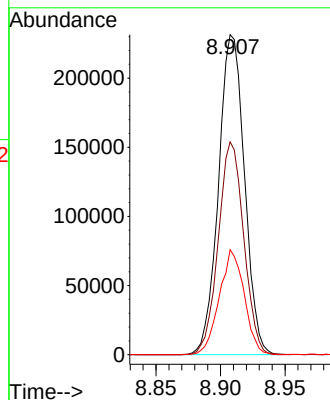
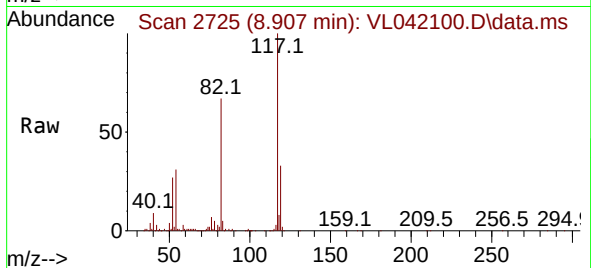
IA2

Tgt Ion:	117	Resp:	32365
Ion	Ratio	Lower	Upper
117	100		
82	65.3	55.0	82.6
119	31.4	25.9	38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#59

m/p-Xylene

Concen: 0.171 ppbv m

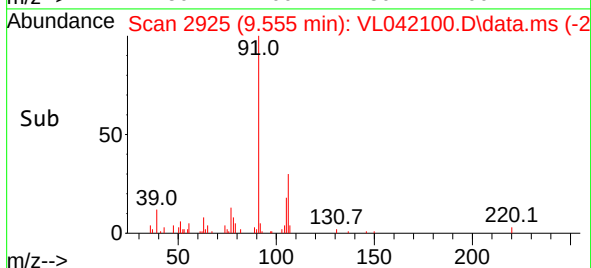
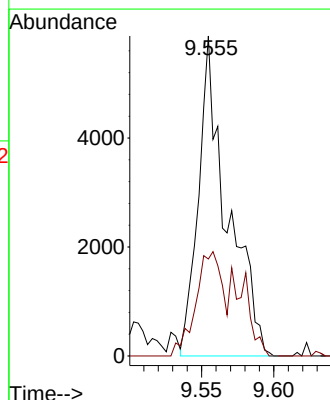
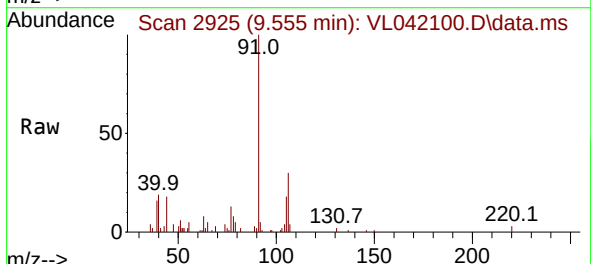
RT: 9.555 min Scan# 2925

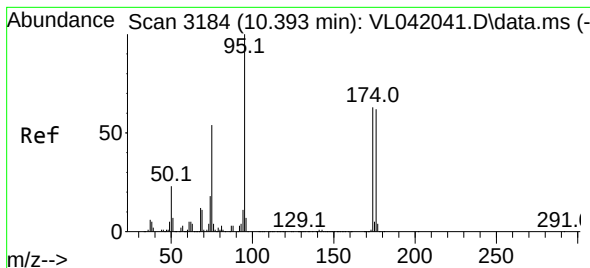
Delta R.T. 0.003 min

Lab File: VL042100.D

Acq: 05 Mar 2025 12:45

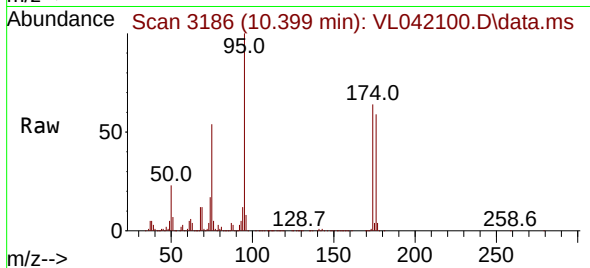
Tgt Ion:	91	Resp:	8116
Ion	Ratio	Lower	Upper
91	100		
106	46.5	0.0	0.0#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.487 ppbv
RT: 10.399 min Scan# 3184
Delta R.T. 0.006 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45

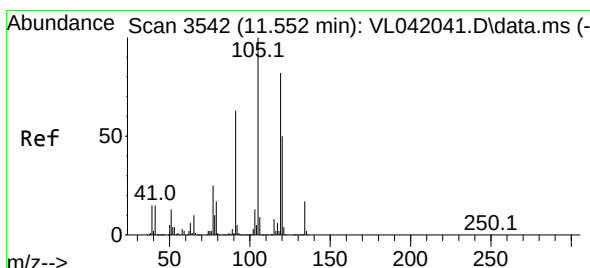
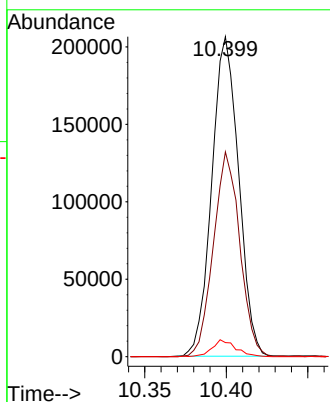
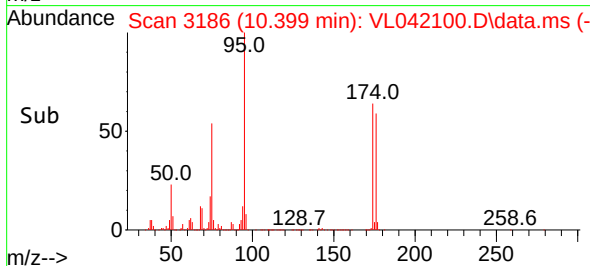
Instrument :
MSVOA_L
ClientSampleId :
IA2



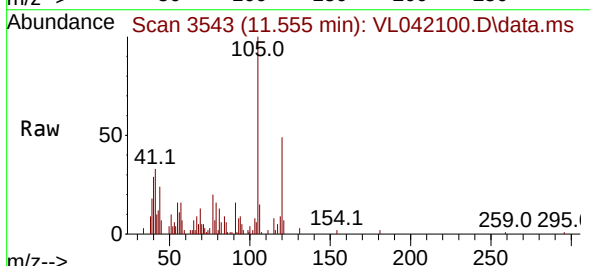
Tgt Ion: 95 Resp: 236227
Ion Ratio Lower Upper
95 100
174 63.2 51.8 77.6
175 4.7 3.9 5.9

Manual Integrations
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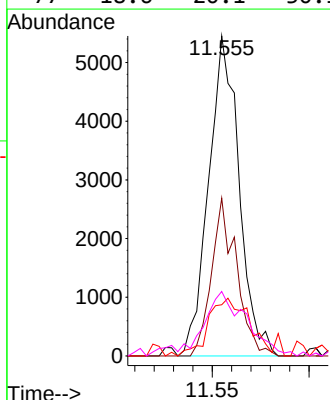
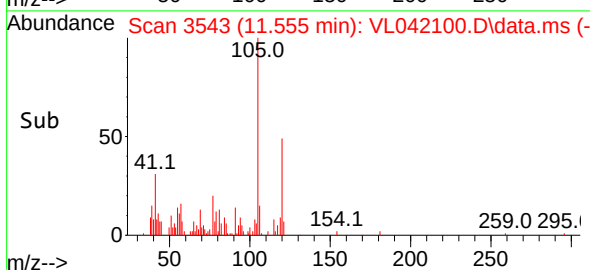
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

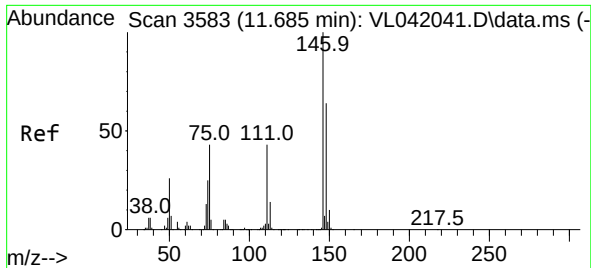


#74
1,2,4-Trimethylbenzene
Concen: 0.105 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. 0.003 min
Lab File: VL042100.D
Acq: 05 Mar 2025 12:45



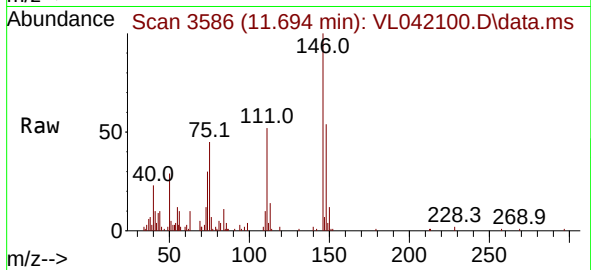
Tgt Ion:105 Resp: 5959
Ion Ratio Lower Upper
105 100
120 49.3 40.2 60.2
91 16.0 51.4 77.2#
77 18.6 20.1 30.1#





#76
 1,4-Dichlorobenzene
 Concen: 0.194 ppbv
 RT: 11.694 min Scan# 3586
 Delta R.T. 0.010 min
 Lab File: VL042100.D
 Acq: 05 Mar 2025 12:45

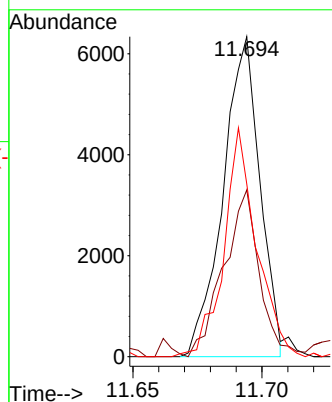
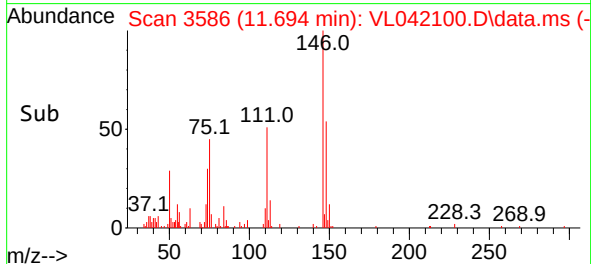
Instrument :
 MSVOA_L
 ClientSampleId :
 IA2



Tgt Ion:	146	Resp:	629
Ion Ratio	Lower	Upper	
146	100		
111	56.9	21.5	64.5
148	64.0	31.6	95.0

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	IA2DL	SDG No.:	Q1483
Lab Sample ID:	Q1483-02DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042105.D	8		03/05/25 15:37	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.11	0.28	UD	0.28	0.61	ug/m3
75-35-4	1,1-Dichloroethene	1.10	4.36	UD	4.36	15.9	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.71	2.82	UD	2.82	15.9	ug/m3
71-55-6	1,1,1-Trichloroethane	0.080	0.44	UD	0.44	1.31	ug/m3
79-01-6	Trichloroethene	0.92	4.94	D	0.75	1.29	ug/m3
127-18-4	Tetrachloroethene	35.5	241	D	0.81	1.63	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.81			
540-36-3	1,4-Difluorobenzene	354000		3.994			
3114-55-4	Chlorobenzene-d5	291000		8.914			

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\VL030525\
 Data File : VL042105.D
 Acq On : 05 Mar 2025 15:37
 Operator : SY/MD
 Sample : Q1483-02DL 8X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA2DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:09:02 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.810	49	157669	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.994	114	354066	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.914	117	290825	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	211664	9.460	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.600%
Target Compounds						
						Qvalue
3) Chlorodifluoromethane	1.486	51	13846	0.604	ppbv	97
9) Propene	1.496	41	7747m	0.830	ppbv	
11) Trichlorofluoromethane	1.891	101	1739	0.106	ppbv	87
13) Ethanol	1.732	45	190776	321.920	ppbv	93
15) Acetone	1.848	43	273963	19.676	ppbv	100
19) Isopropyl Alcohol	1.900	45	2154653	269.394	ppbv #	33
20) Methylene Chloride	2.075	84	13976	2.654	ppbv	94
25) Ethyl Acetate	2.862	43	11635	0.209	ppbv #	86
34) 2-Butanone	2.583	43	5291m	0.192	ppbv	
38) Trichloroethene	4.590	130	1741m	0.115	ppbv	
43) Methyl Methacrylate	4.930	69	6062m	0.419	ppbv	
52) Tetrachloroethene	8.267	164	56347	4.441	ppbv	93

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

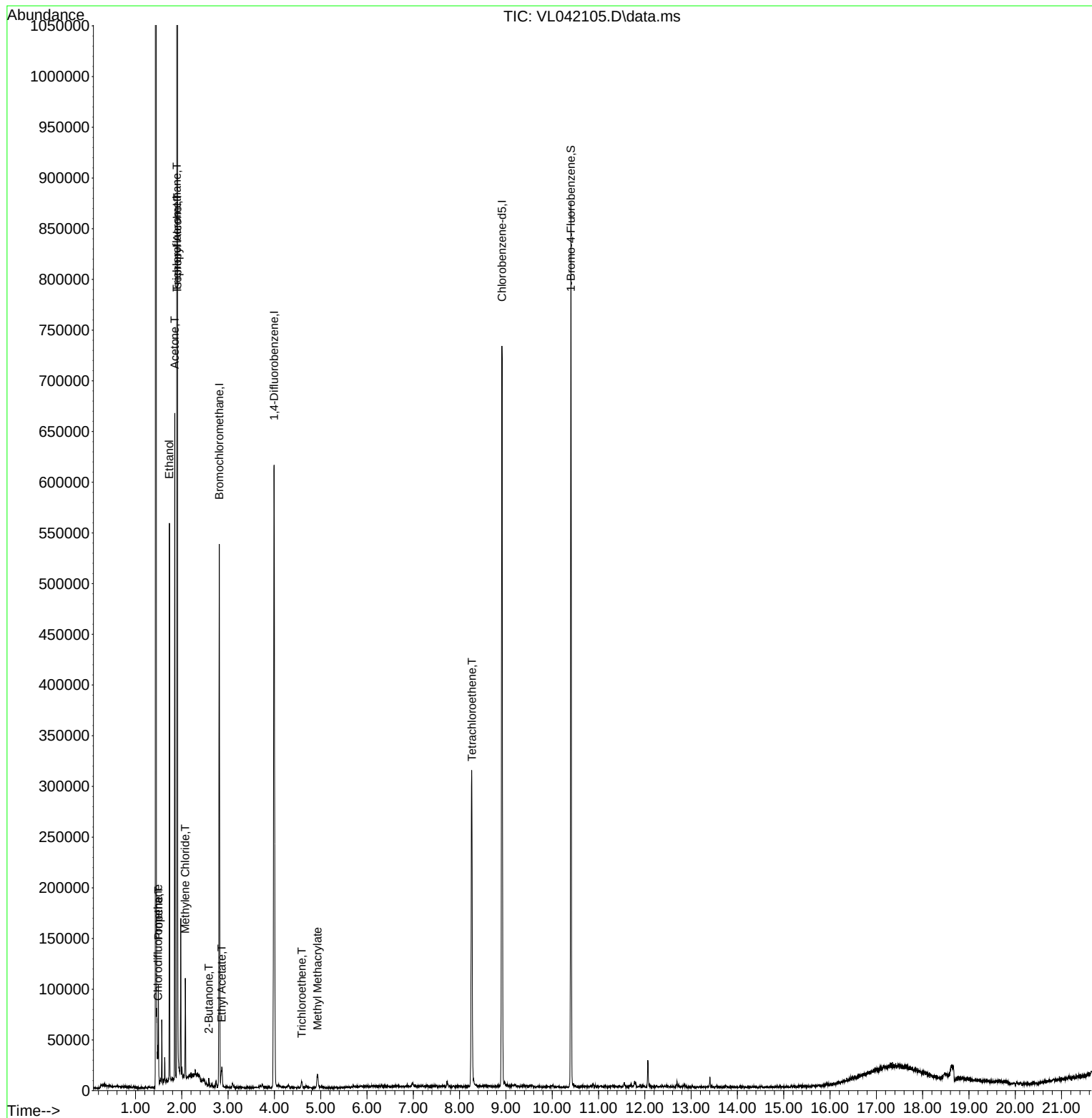
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Data File : VL042105.D
Acq On : 05 Mar 2025 15:37
Operator : SY/MD
Sample : Q1483-02DL 8X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

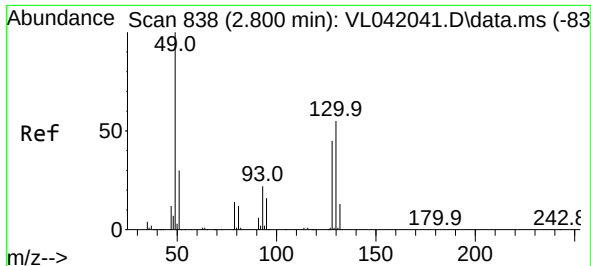
Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Quant Time: Mar 06 01:09:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

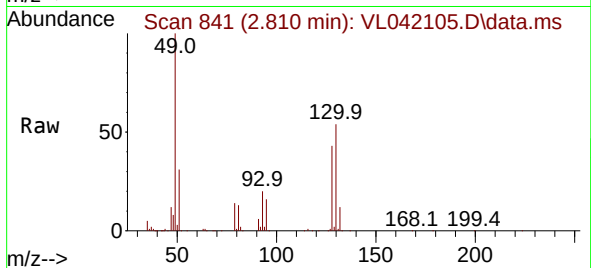
Reviewed By : Semsettin Yesilyurt 03/06/2025
Supervised By : Mahesh Dadoda 03/06/2025





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.010 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

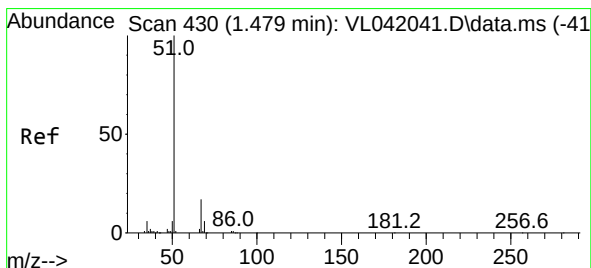
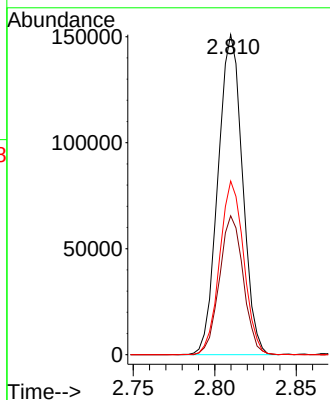
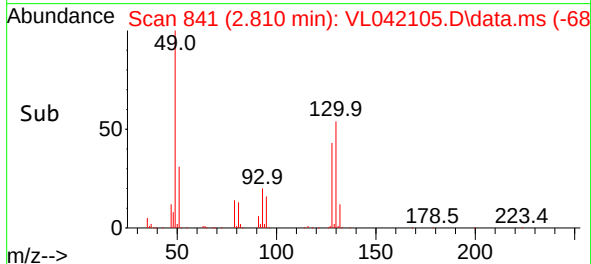
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



Tgt Ion: 49 Resp: 157669
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.8
130 53.3 27.8 83.4

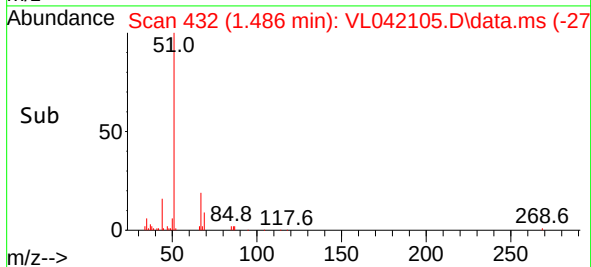
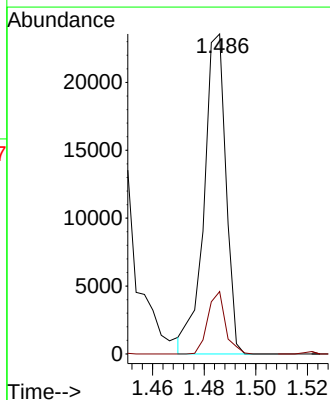
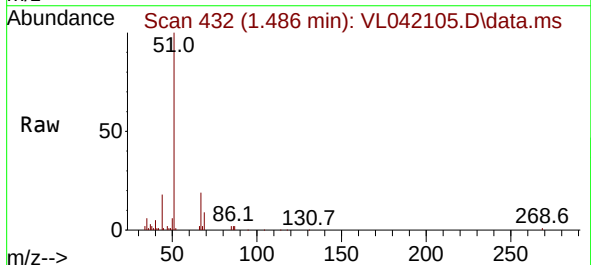
Manual Integrations
APPROVED

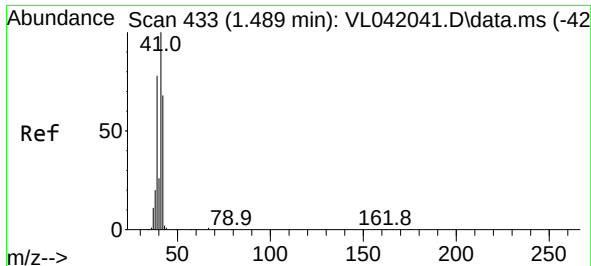
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#3
Chlorodifluoromethane
Concen: 0.604 ppbv
RT: 1.486 min Scan# 432
Delta R.T. 0.007 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 51 Resp: 13846
Ion Ratio Lower Upper
51 100
67 15.7 13.7 20.5





#9

Propene

Concen: 0.830 ppbv m

RT: 1.496 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL042105.D

Acq: 05 Mar 2025 15:37

Instrument :

MSVOA_L

ClientSampleId :

IA2DL

Tgt Ion: 41 Resp: 774

Ion Ratio Lower Upper

41 100

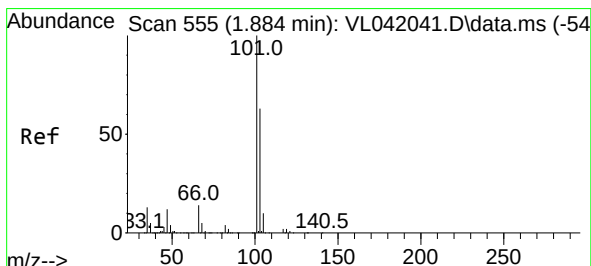
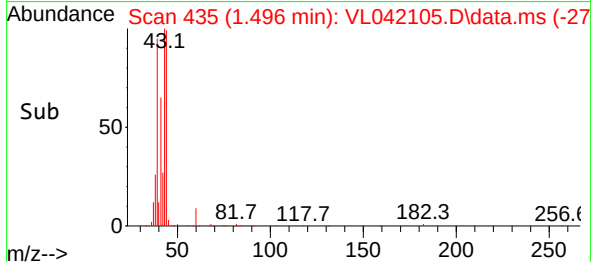
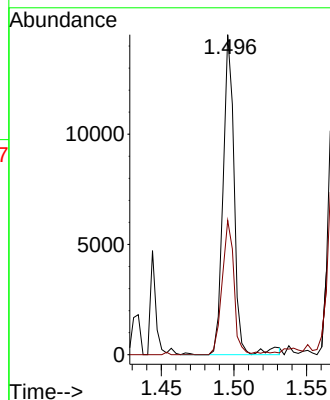
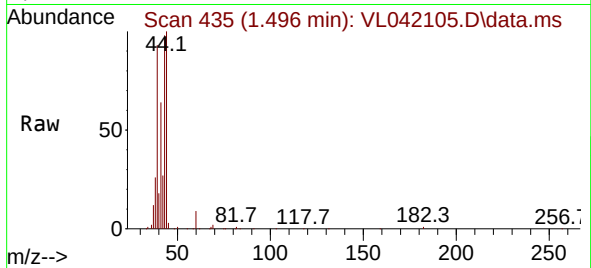
42 2170.5 55.8 83.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#11

Trichlorofluoromethane

Concen: 0.106 ppbv

RT: 1.891 min Scan# 557

Delta R.T. 0.006 min

Lab File: VL042105.D

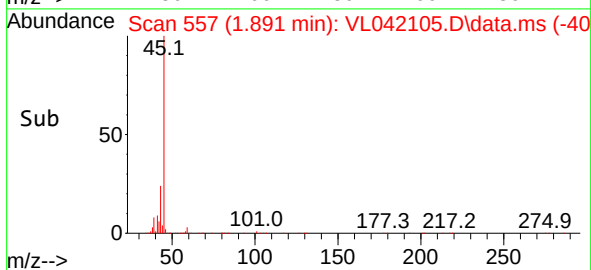
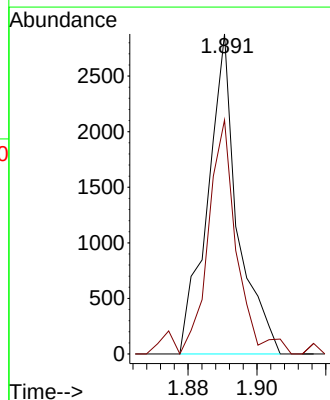
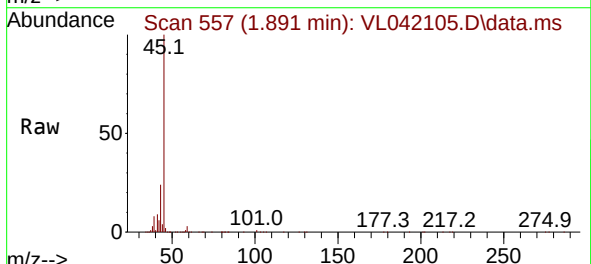
Acq: 05 Mar 2025 15:37

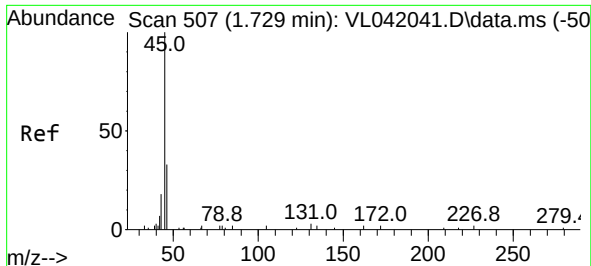
Tgt Ion:101 Resp: 1739

Ion Ratio Lower Upper

101 100

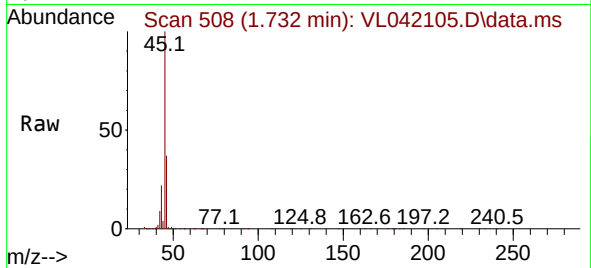
103 73.1 50.6 75.8





#13
Ethanol
Concen: 321.920 ppbv
RT: 1.732 min Scan# 507
Delta R.T. 0.003 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

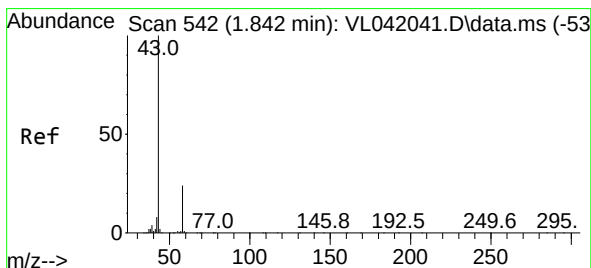
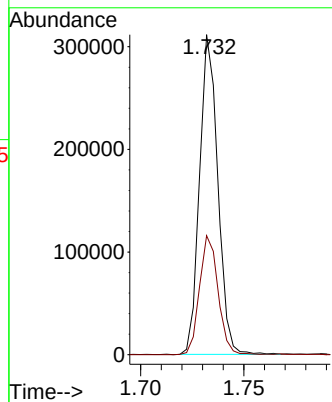
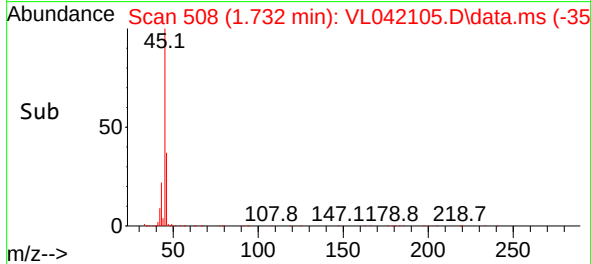
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



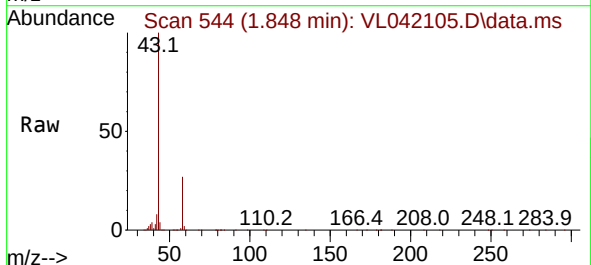
Tgt Ion: 45 Resp: 190776
Ion Ratio Lower Upper
45 100
46 38.4 17.1 68.3

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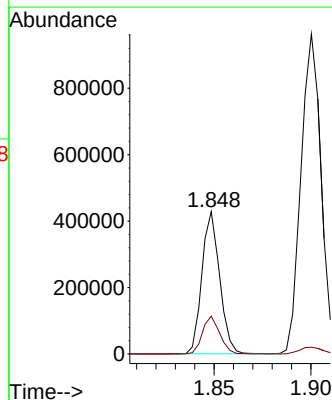
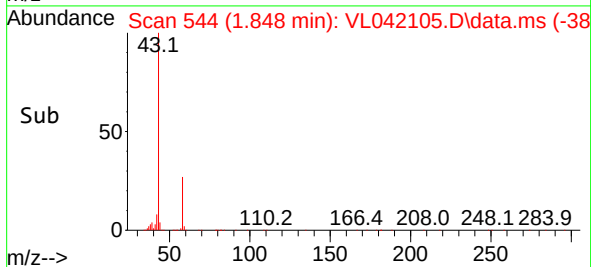
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

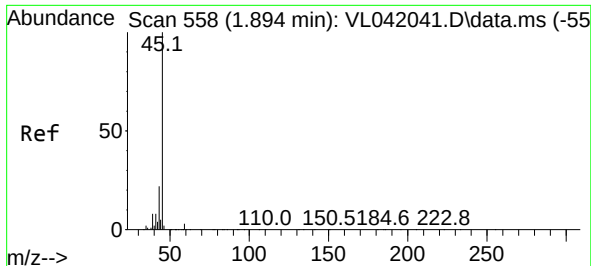


#15
Acetone
Concen: 19.676 ppbv
RT: 1.848 min Scan# 544
Delta R.T. 0.006 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37



Tgt Ion: 43 Resp: 273963
Ion Ratio Lower Upper
43 100
58 25.8 20.7 31.1





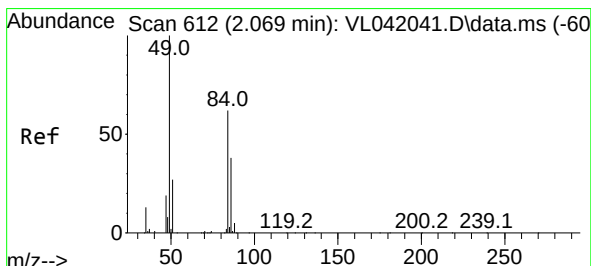
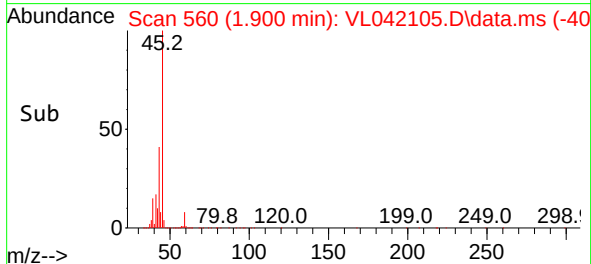
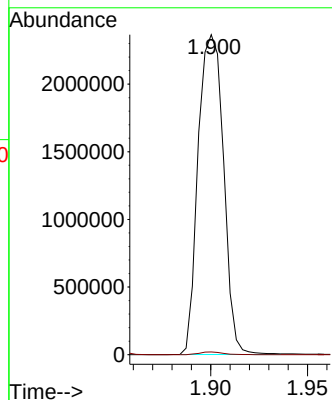
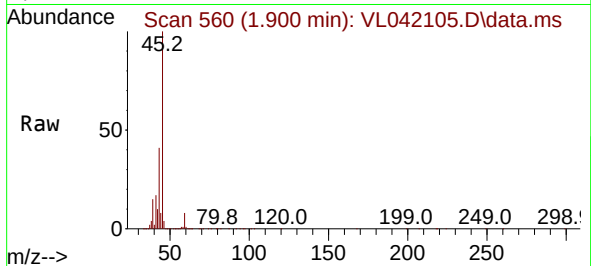
#19
Isopropyl Alcohol
Concen: 269.394 ppbv
RT: 1.900 min Scan# 50
Delta R.T. 0.007 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 45 Resp: 215465
Ion Ratio Lower Upper
45 100
58 0.8 35.3 52.9

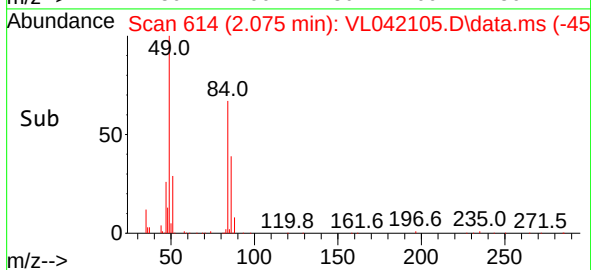
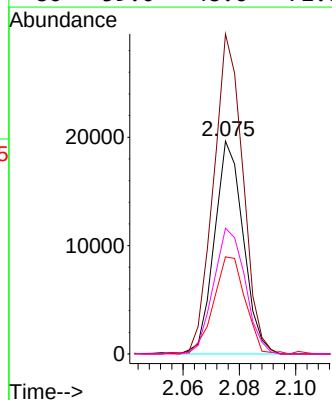
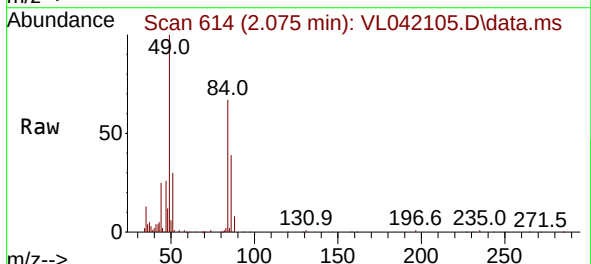
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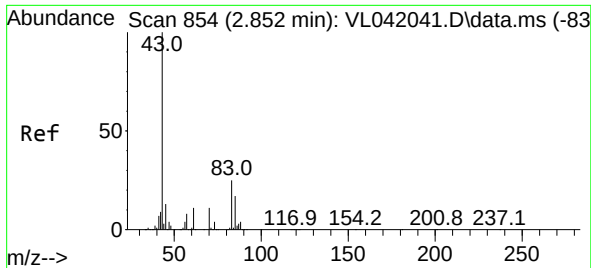
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#20
Methylene Chloride
Concen: 2.654 ppbv
RT: 2.075 min Scan# 614
Delta R.T. 0.006 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion: 84 Resp: 13976
Ion Ratio Lower Upper
84 100
49 150.3 130.0 195.0
51 45.1 37.4 56.0
86 59.0 48.6 72.8





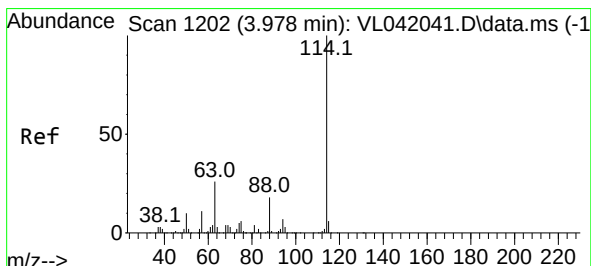
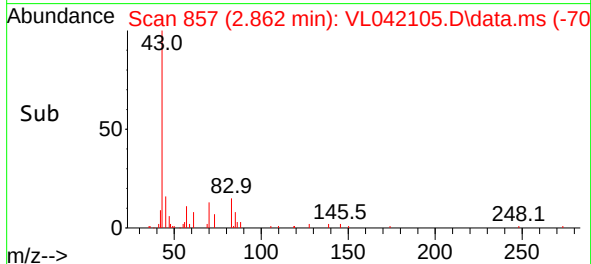
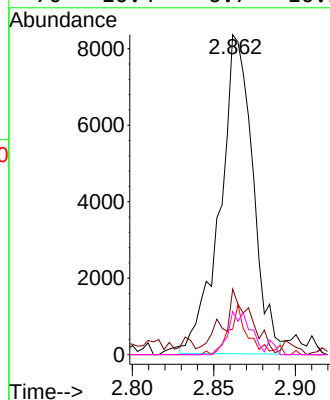
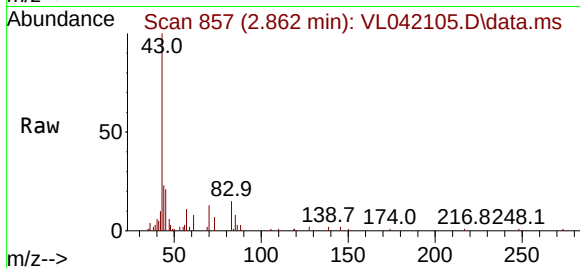
#25
Ethyl Acetate
Concen: 0.209 ppbv
RT: 2.862 min Scan# 81
Delta R.T. 0.010 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 43	Resp: 1163
Ion Ratio	Lower Upper
43 100	
45 22.5	8.1 12.1
61 9.4	7.2 10.8
70 10.4	6.7 10.1

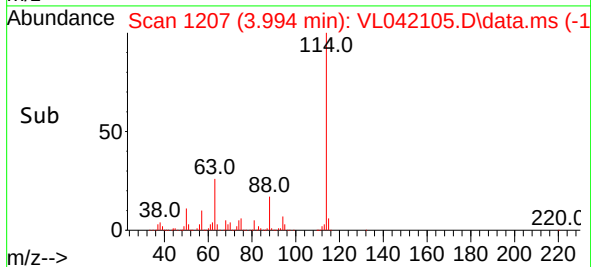
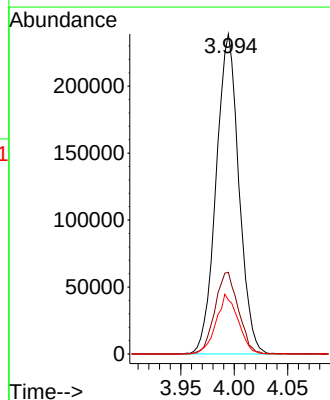
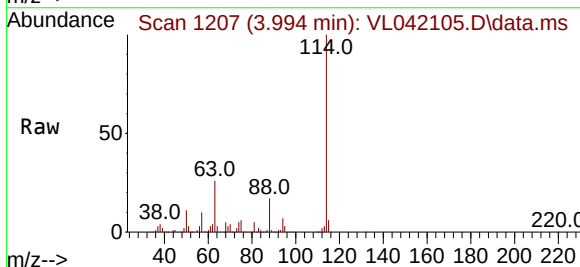
Manual Integrations
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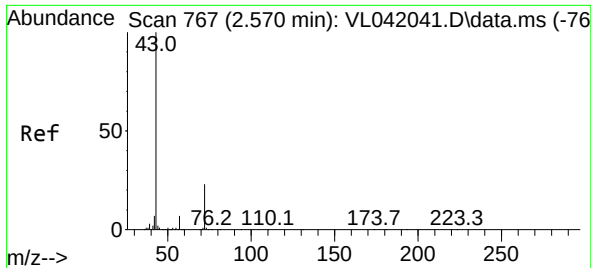
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.994 min Scan# 1207
Delta R.T. 0.016 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion:114	Resp: 354066
Ion Ratio	Lower Upper
114 100	
63 26.3	20.1 30.1
88 18.1	14.3 21.5





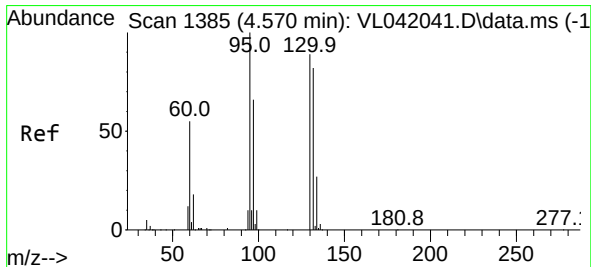
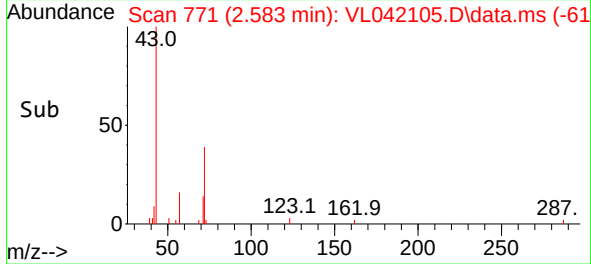
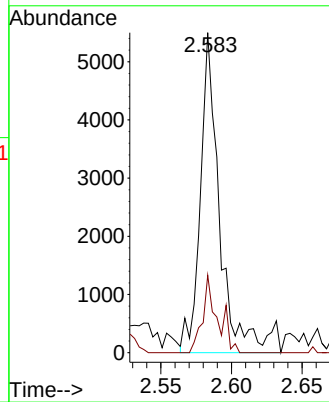
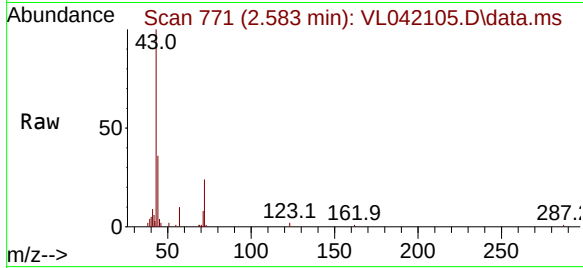
#34
2-Butanone
Concen: 0.192 ppbv m
RT: 2.583 min Scan# 71
Delta R.T. 0.013 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 43 Resp: 529
Ion Ratio Lower Upper
43 100
72 18.7 18.5 27.7

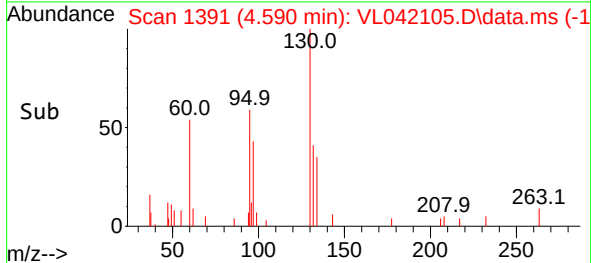
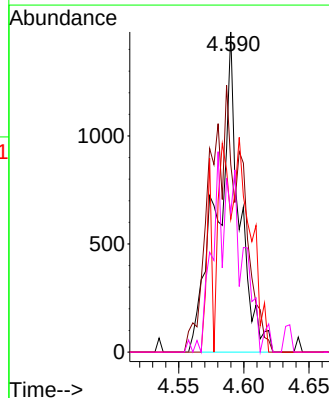
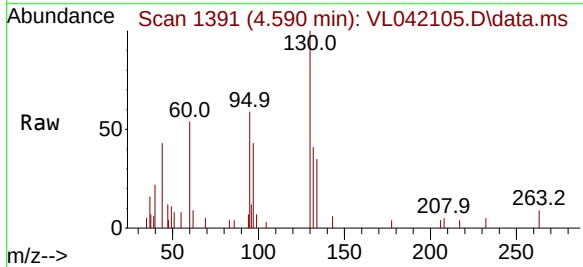
Manual Integrations
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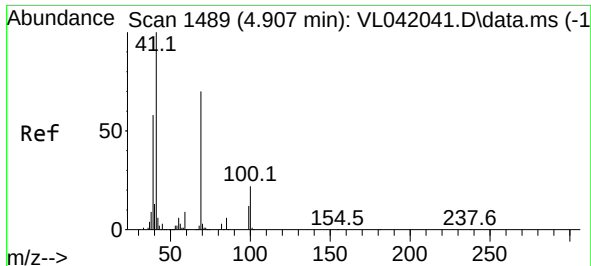
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#38
Trichloroethene
Concen: 0.115 ppbv m
RT: 4.590 min Scan# 1391
Delta R.T. 0.019 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Tgt Ion:130 Resp: 1741
Ion Ratio Lower Upper
130 100
95 58.7 89.5 134.3#
132 41.5 73.8 110.6#
97 43.5 58.8 88.2#





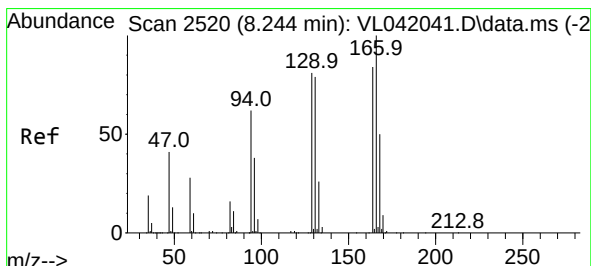
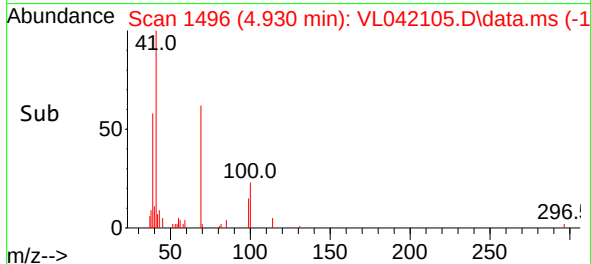
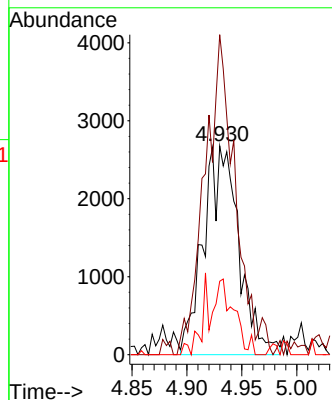
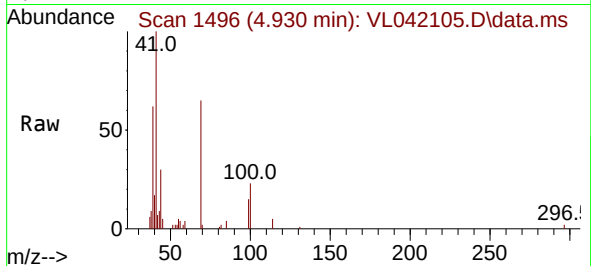
#43
Methyl Methacrylate
Concen: 0.419 ppbv
RT: 4.930 min Scan# 1489
Delta R.T. 0.023 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

Instrument :
MSVOA_L
ClientSampleId :
IA2DL

Tgt Ion: 69 Resp: 6062
Ion Ratio Lower Upper
69 100
41 131.9 118.2 177.4
100 0.0 27.0 40.4

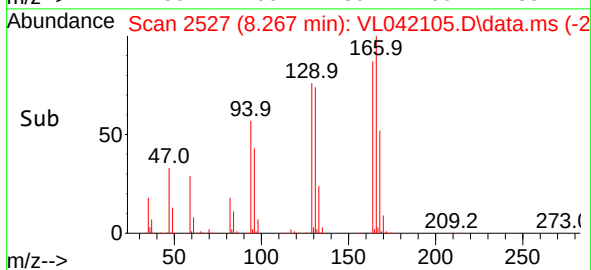
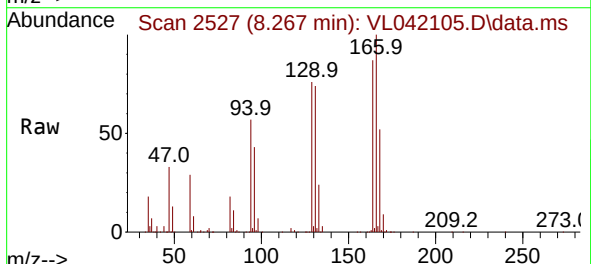
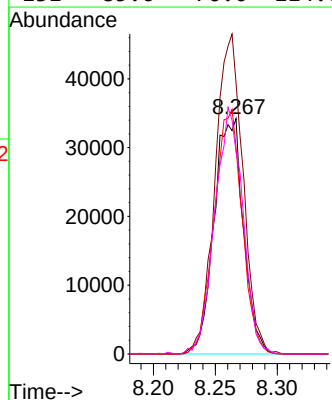
Manual Integrations
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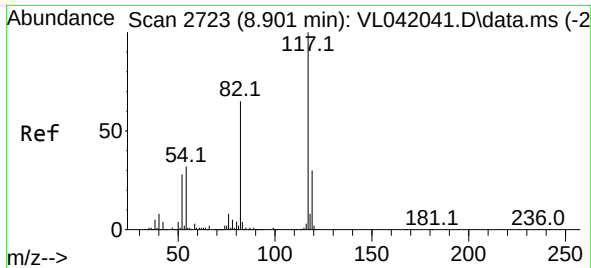
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#52
Tetrachloroethene
Concen: 4.441 ppbv
RT: 8.267 min Scan# 2527
Delta R.T. 0.023 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

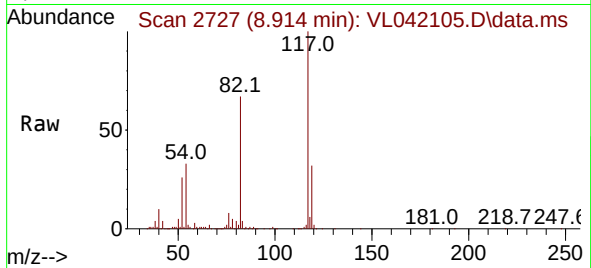
Tgt Ion:164 Resp: 56347
Ion Ratio Lower Upper
164 100
166 115.2 95.7 143.5
129 87.9 77.1 115.7
131 85.6 76.0 114.0





#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37

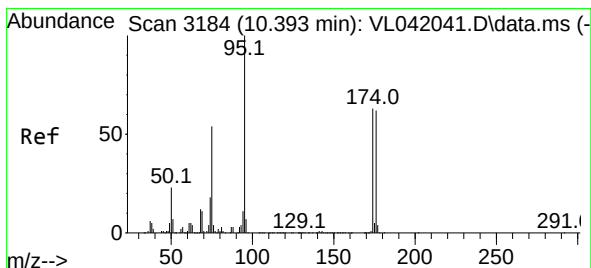
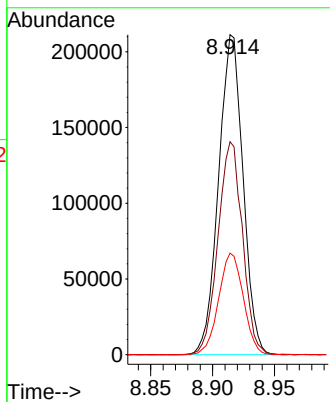
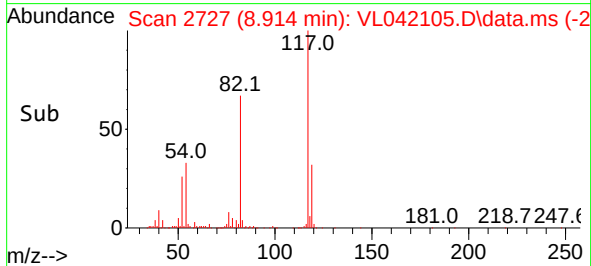
Instrument :
MSVOA_L
ClientSampleId :
IA2DL



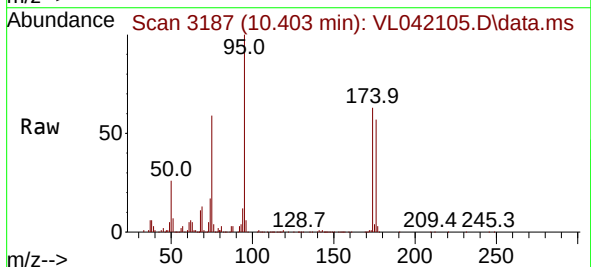
Tgt Ion: 117 Resp: 290825
Ion Ratio Lower Upper
117 100
82 66.5 55.0 82.6
119 32.1 25.9 38.9

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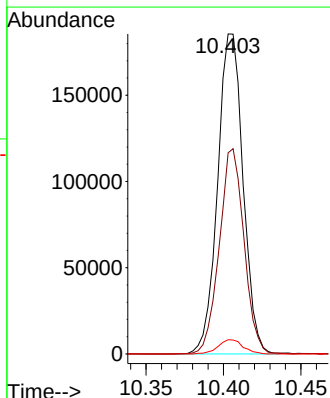
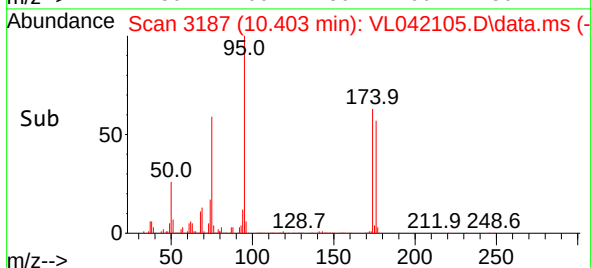
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.460 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.010 min
Lab File: VL042105.D
Acq: 05 Mar 2025 15:37



Tgt Ion: 95 Resp: 211664
Ion Ratio Lower Upper
95 100
174 62.5 51.8 77.6
175 4.4 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	SV1	SDG No.:	Q1483
Lab Sample ID:	Q1483-03	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042110.D	1200		03/05/25 18:34	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	16.8	42.9	U	42.9	92.0	ug/m3
75-35-4	1,1-Dichloroethene	170	674	U	674	2380	ug/m3
156-59-2	cis-1,2-Dichloroethene	1900	7530		436	2380	ug/m3
71-55-6	1,1,1-Trichloroethane	11.4	62.2	U	62.2	196	ug/m3
79-01-6	Trichloroethene	4900	26300		110	193	ug/m3
127-18-4	Tetrachloroethene	329000	2230000	E	122	244	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			65 - 135	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000			2.813		
540-36-3	1,4-Difluorobenzene	348000			3.998		
3114-55-4	Chlorobenzene-d5	289000			8.921		

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\VL030525\
 Data File : VL042110.D
 Acq On : 05 Mar 2025 18:34
 Operator : SY/MD
 Sample : Q1483-03 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Quant Time: Mar 06 01:11:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

Manual Integrations
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Reviewed By : Semsettin Yesilyurt 03/06/2025
 Supervised By : Mahesh Dadoda 03/06/2025

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

Internal Standards						
1) Bromochloromethane	2.813	49	157863	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	3.998	114	348468	10.000	ppbv	0.02
55) Chlorobenzene-d5	8.921	117	288912	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.409	95	205982	9.267	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%
Target Compounds						
22) trans-1,2-Dichloroethene	2.363	96	1130m	0.164	ppbv	Qvalue
29) Chloroform	2.871	83	4787	0.158	ppbv #	82
31) cis-1,2-Dichloroethene	2.745	61	34215	1.602	ppbv	98
38) Trichloroethene	4.596	130	60818	4.083	ppbv	92
52) Tetrachloroethene	8.283	164	3422840	274.084	ppbv	94

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

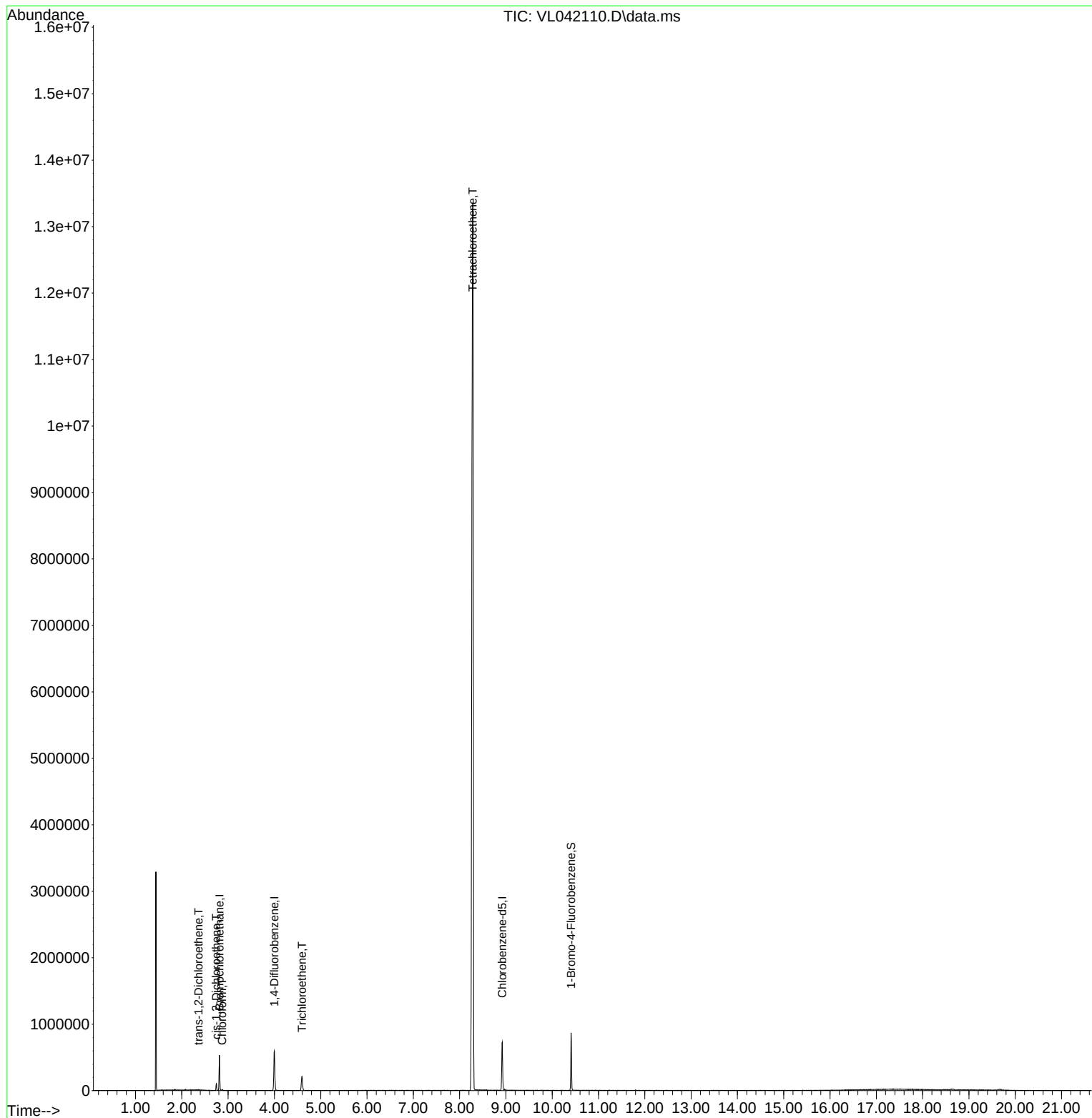
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
Data File : VL042110.D
Acq On : 05 Mar 2025 18:34
Operator : SY/MD
Sample : Q1483-03 1200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

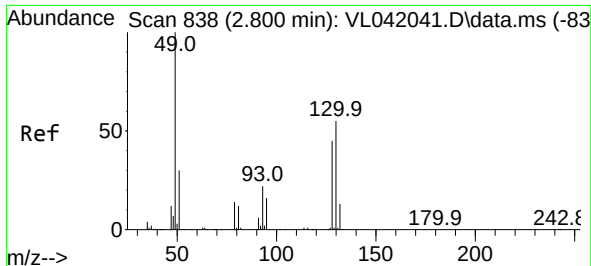
Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

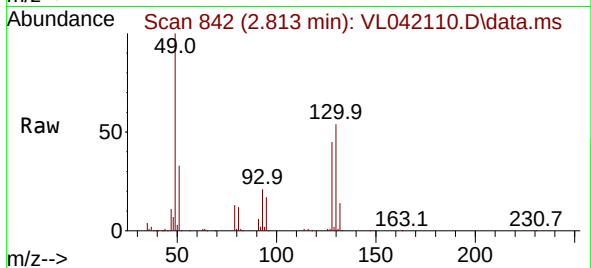
Quant Time: Mar 06 01:11:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.813 min Scan# 842
Delta R.T. 0.013 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

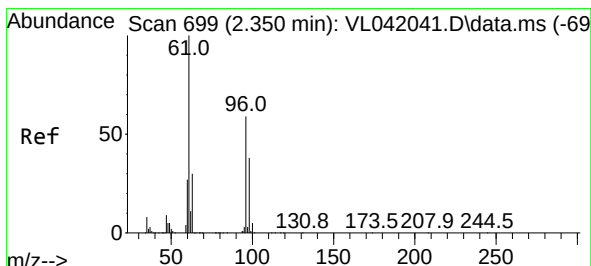
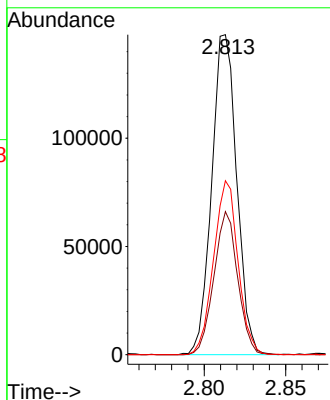
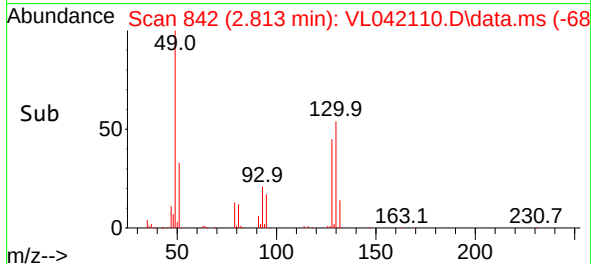
Instrument :
MSVOA_L
ClientSampleId :
SV1



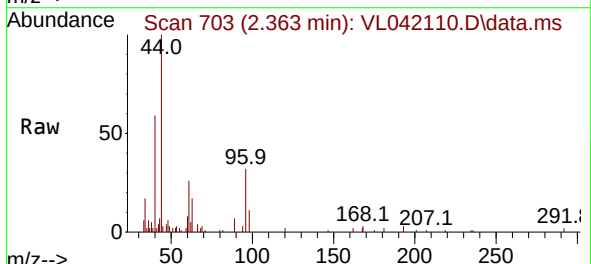
Tgt Ion: 49 Resp: 15786
Ion Ratio Lower Upper
49 100
128 42.5 21.6 64.8
130 53.1 27.8 83.4

Manual Integrations
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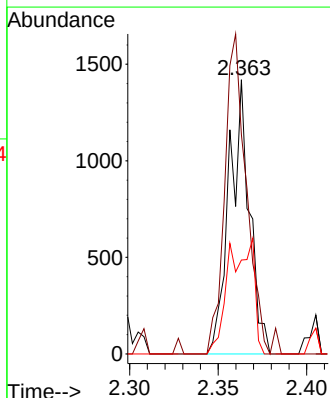
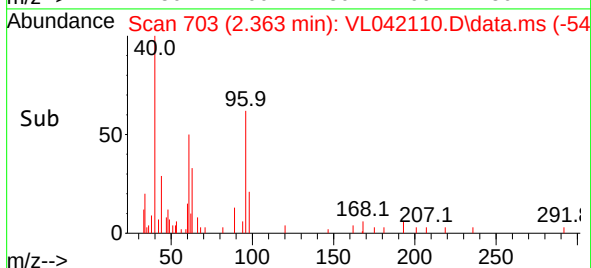
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

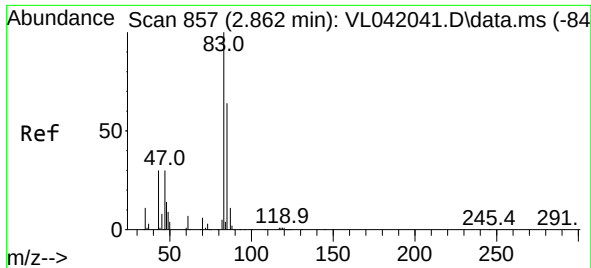


#22
trans-1,2-Dichloroethene
Concen: 0.164 ppbv m
RT: 2.363 min Scan# 703
Delta R.T. 0.013 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34



Tgt Ion: 96 Resp: 1130
Ion Ratio Lower Upper
96 100
61 80.0 136.6 205.0#
98 34.2 51.8 77.6#





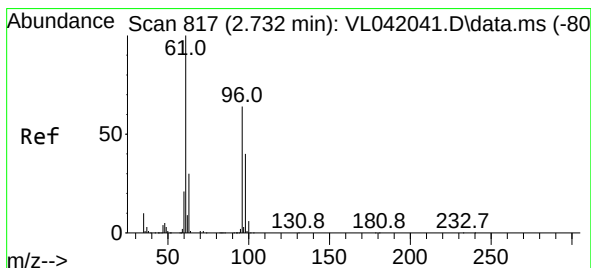
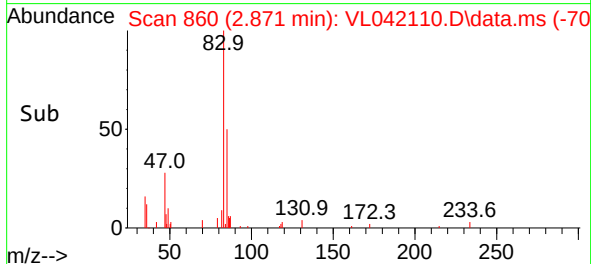
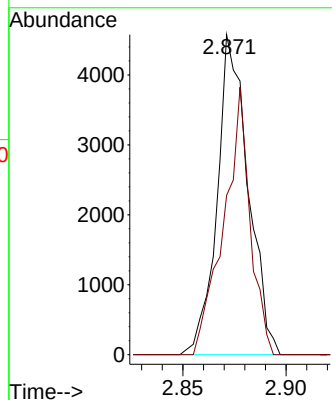
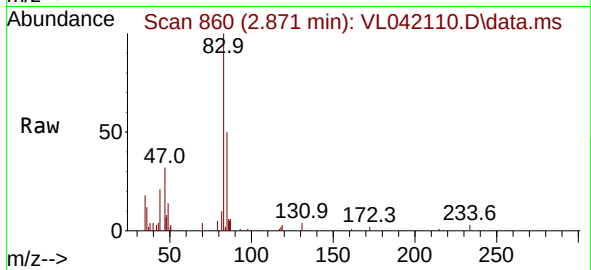
#29
Chloroform
Concen: 0.158 ppbv
RT: 2.871 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tgt Ion: 83 Resp: 478
Ion Ratio Lower Upper
83 100
85 49.8 51.2 76.8

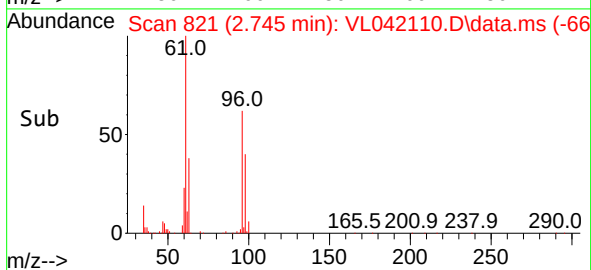
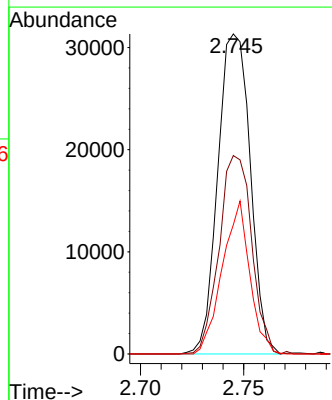
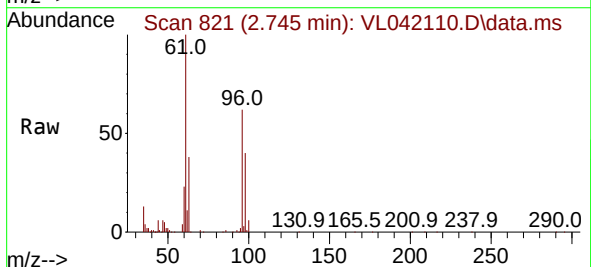
Manual Integrations
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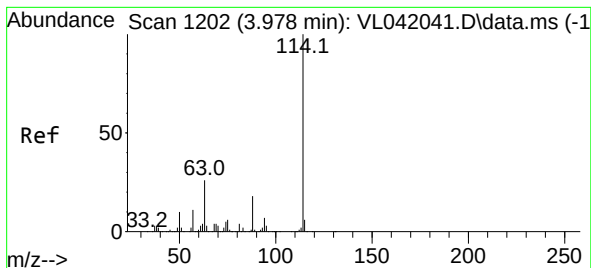
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#31
cis-1,2-Dichloroethene
Concen: 1.602 ppbv
RT: 2.745 min Scan# 821
Delta R.T. 0.013 min
Lab File: VL042110.D
Acq: 05 Mar 2025 18:34

Tgt Ion: 61 Resp: 34215
Ion Ratio Lower Upper
61 100
96 62.0 51.5 77.3
98 40.4 32.0 48.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.998 min Scan# 11

Delta R.T. 0.019 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:114 Resp: 34846

Ion Ratio Lower Upper

114 100

63 26.2 20.1 30.1

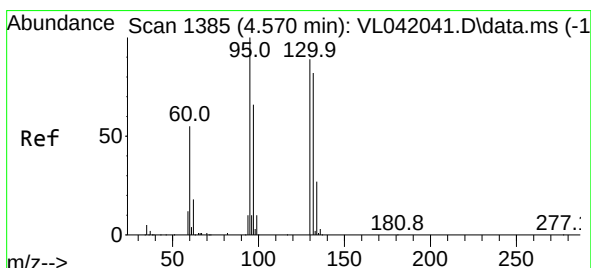
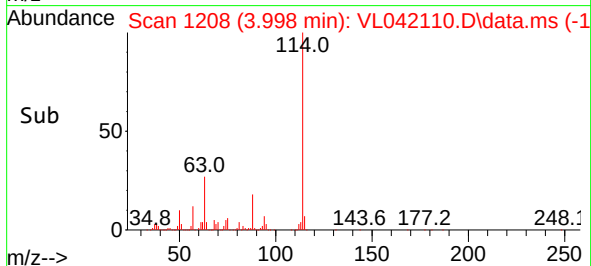
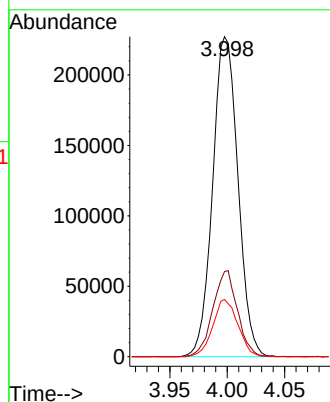
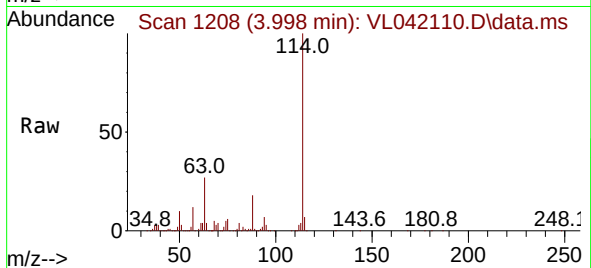
88 17.7 14.3 21.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#38

Trichloroethene

Concen: 4.083 ppbv

RT: 4.596 min Scan# 1393

Delta R.T. 0.026 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

Tgt Ion:130 Resp: 60818

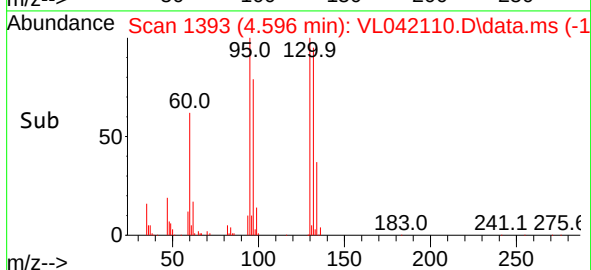
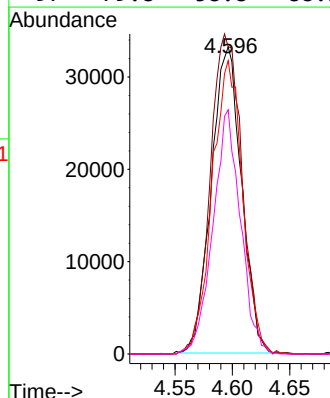
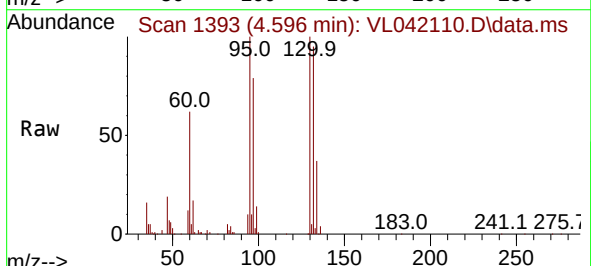
Ion Ratio Lower Upper

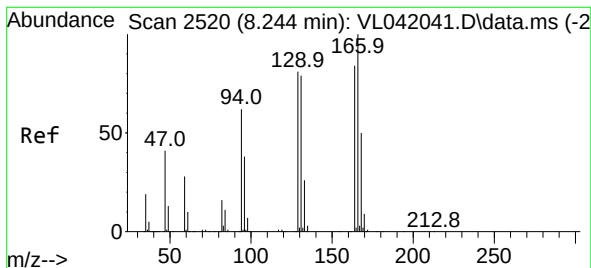
130 100

95 100.2 89.5 134.3

132 95.5 73.8 110.6

97 79.8 58.8 88.2





#52

Tetrachloroethene

Concen: 274.084 ppbv

RT: 8.283 min Scan# 21

Delta R.T. 0.039 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tgt Ion:164 Resp: 3422840

Ion Ratio Lower Upper

164 100

166 113.9 95.7 143.5

129 91.2 77.1 115.7

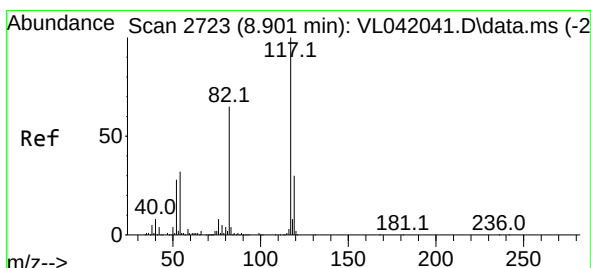
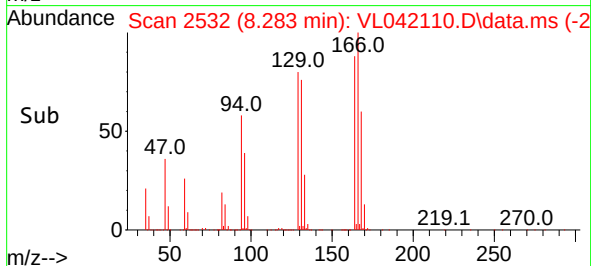
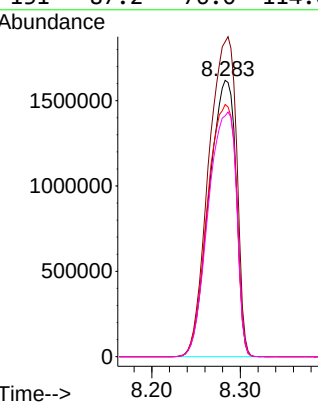
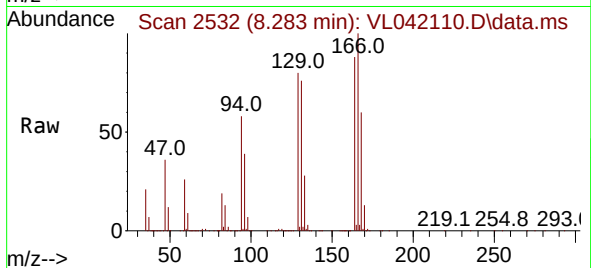
131 87.2 76.0 114.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 03/06/2025

Supervised By :Mahesh Dadoda 03/06/2025



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.921 min Scan# 2729

Delta R.T. 0.019 min

Lab File: VL042110.D

Acq: 05 Mar 2025 18:34

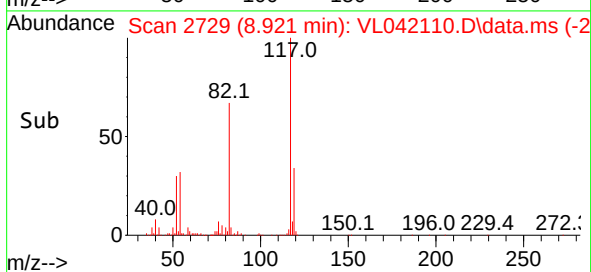
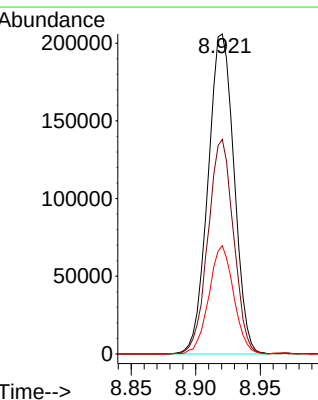
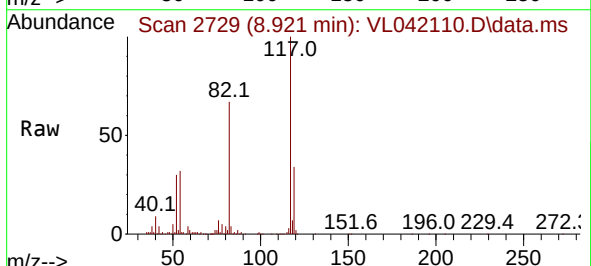
Tgt Ion:117 Resp: 288912

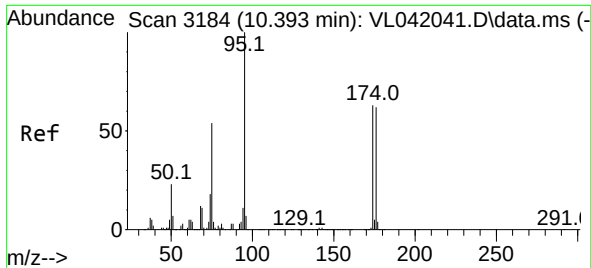
Ion Ratio Lower Upper

117 100

82 65.8 55.0 82.6

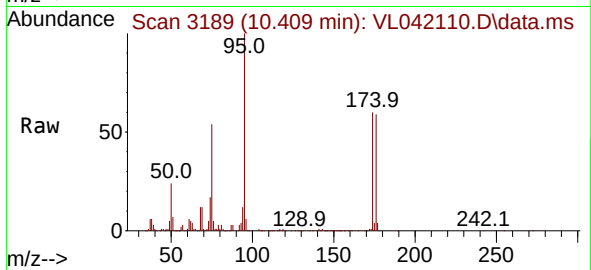
119 32.5 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.267 ppbv
 RT: 10.409 min Scan# 31
 Delta R.T. 0.016 min
 Lab File: VL042110.D
 Acq: 05 Mar 2025 18:34

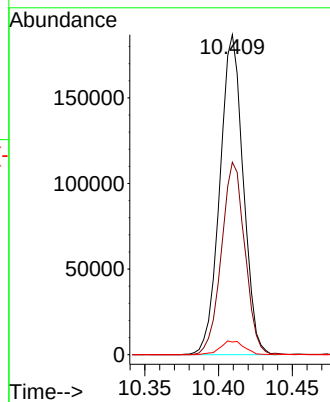
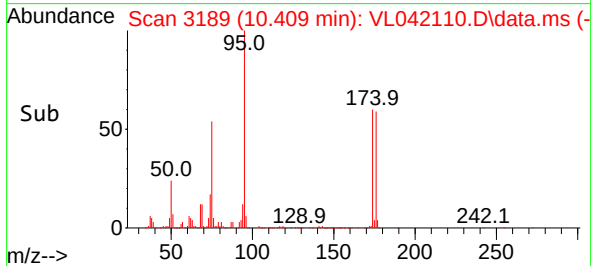
Instrument :
 MSVOA_L
 ClientSampleId :
 SV1



Tgt Ion: 95 Resp: 20598
 Ion Ratio Lower Upper
 95 100
 174 60.6 51.8 77.6
 175 4.4 3.9 5.9

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	SV2	SDG No.:	Q1483
Lab Sample ID:	Q1483-04	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042112.D	1200		03/05/25 19:37	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	150	383		42.9	92.0	ug/m3
75-35-4	1,1-Dichloroethene	170	674	U	674	2380	ug/m3
156-59-2	cis-1,2-Dichloroethene	25500	101000	E	436	2380	ug/m3
71-55-6	1,1,1-Trichloroethane	11.4	62.2	U	62.2	196	ug/m3
79-01-6	Trichloroethene	20900	112000	E	110	193	ug/m3
127-18-4	Tetrachloroethene	474000	3210000	E	122	244	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.20			65 - 135	92%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000			2.816		
540-36-3	1,4-Difluorobenzene	344000			4.004		
3114-55-4	Chlorobenzene-d5	288000			8.924		

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\VL030525\
 Data File : VL042112.D
 Acq On : 05 Mar 2025 19:37
 Operator : SY/MD
 Sample : Q1483-04 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Mar 06 01:12:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

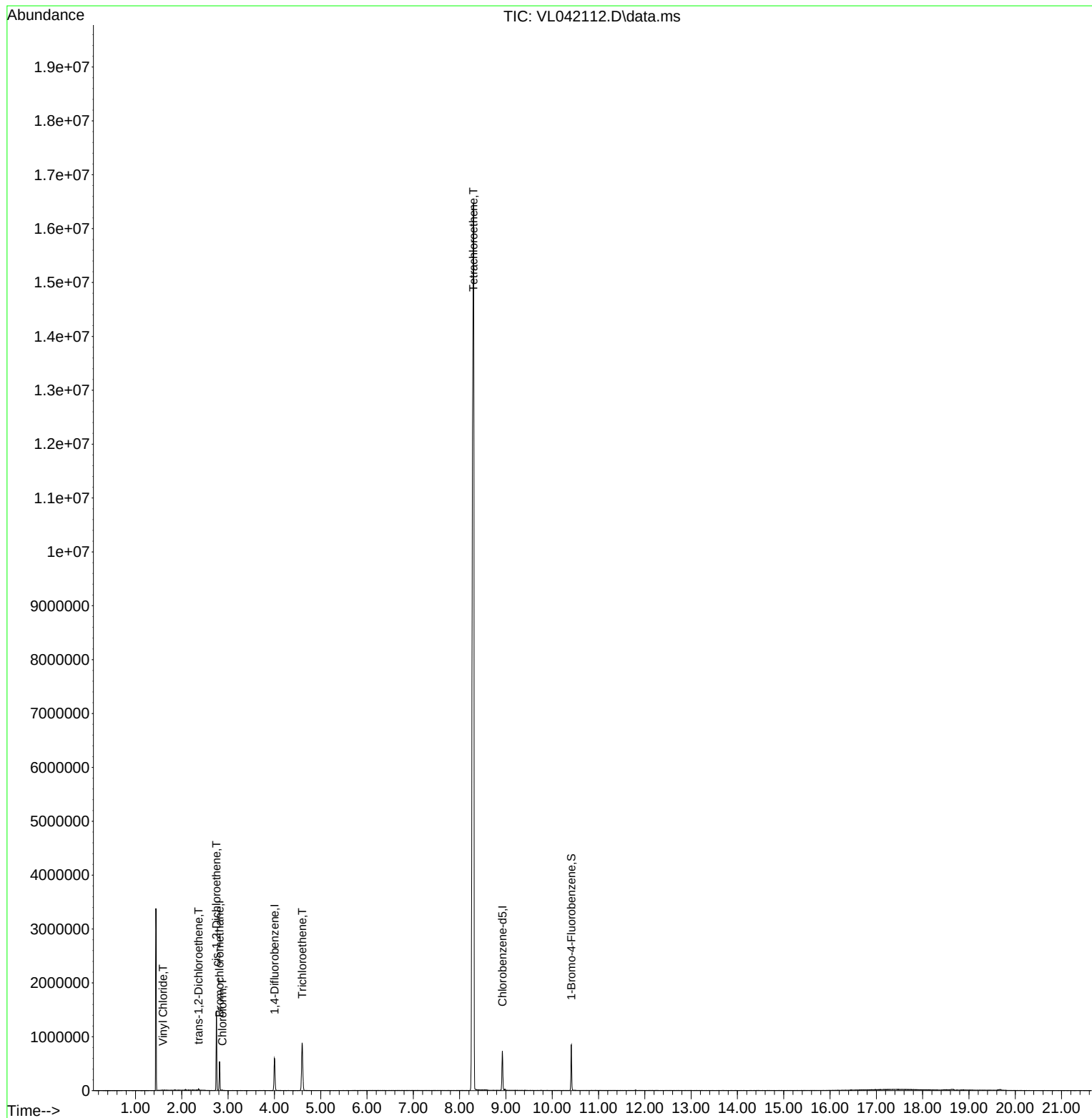
Internal Standards						
1) Bromochloromethane	2.816	49	159533	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	4.004	114	343542	10.000	ppbv	0.03
55) Chlorobenzene-d5	8.924	117	288034	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.413	95	204044	9.208	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.593	62	721	0.124	ppbv #	88
22) trans-1,2-Dichloroethene	2.363	96	3442	0.493	ppbv	90
29) Chloroform	2.878	83	3452	0.113	ppbv	97
31) cis-1,2-Dichloroethene	2.748	61	458160	21.229	ppbv	98
38) Trichloroethene	4.600	130	255971	17.430	ppbv	93
52) Tetrachloroethene	8.299	164	4861503	394.867	ppbv	91

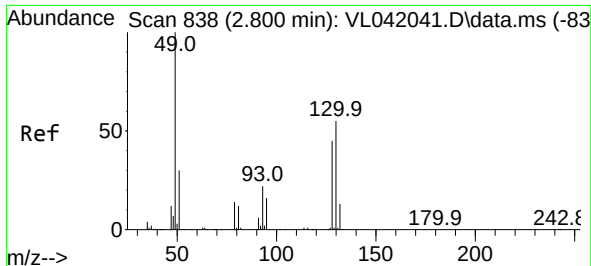
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
Data File : VL042112.D
Acq On : 05 Mar 2025 19:37
Operator : SY/MD
Sample : Q1483-04 1200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV2

Quant Time: Mar 06 01:12:05 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

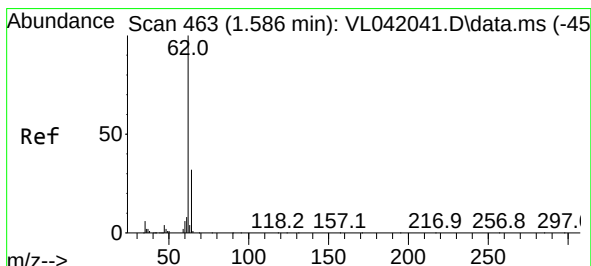
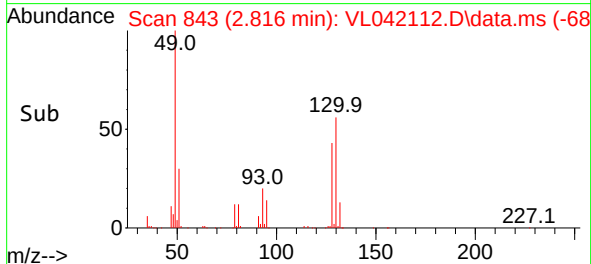
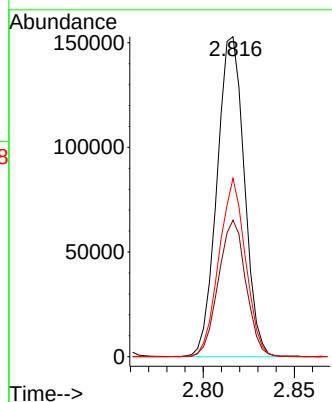
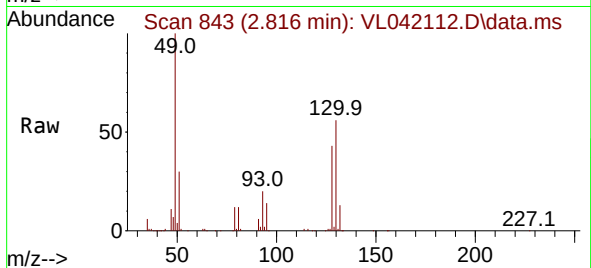




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.816 min Scan# 84
Delta R.T. 0.016 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

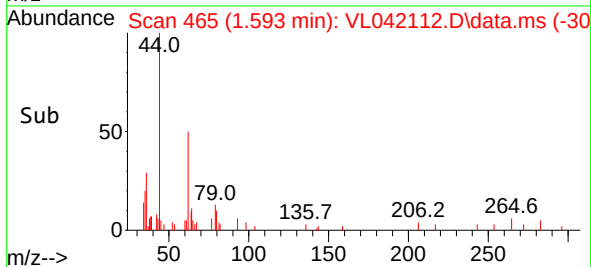
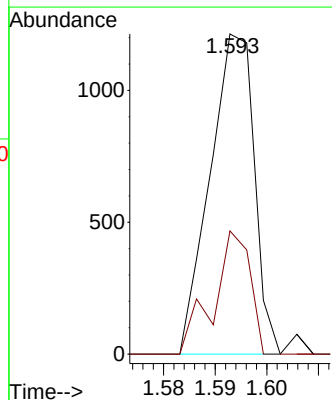
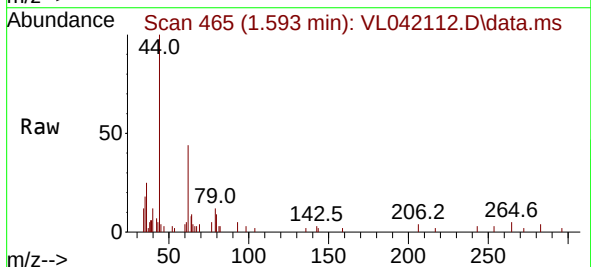
Instrument :
MSVOA_L
ClientSampleId :
SV2

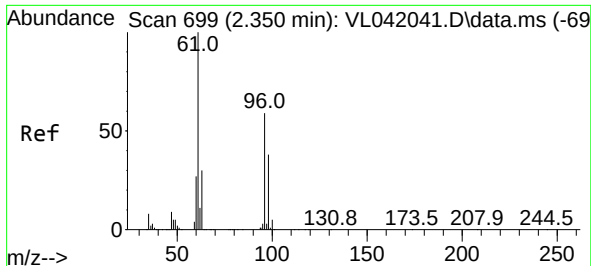
Tgt Ion: 49 Resp: 159533
Ion Ratio Lower Upper
49 100
128 42.9 21.6 64.8
130 54.2 27.8 83.4



#5
Vinyl Chloride
Concen: 0.124 ppbv
RT: 1.593 min Scan# 465
Delta R.T. 0.007 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 62 Resp: 721
Ion Ratio Lower Upper
62 100
64 38.5 25.3 37.9#

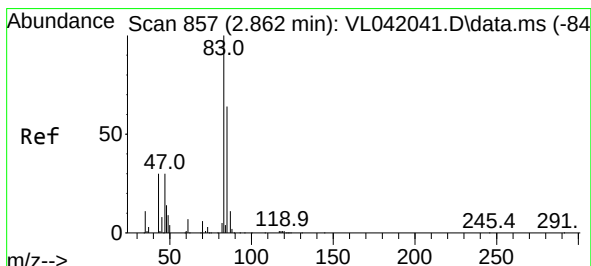
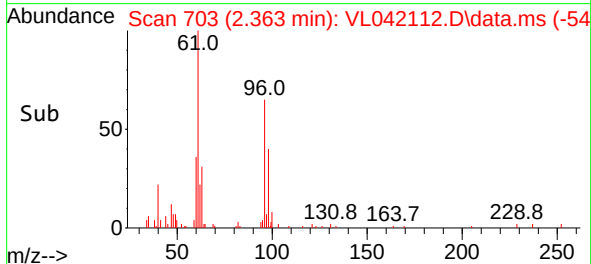
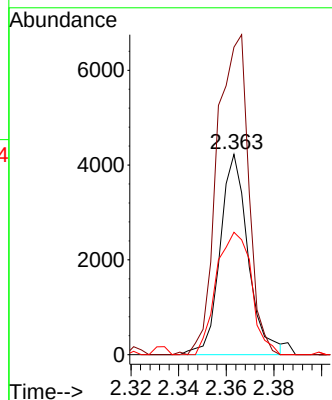
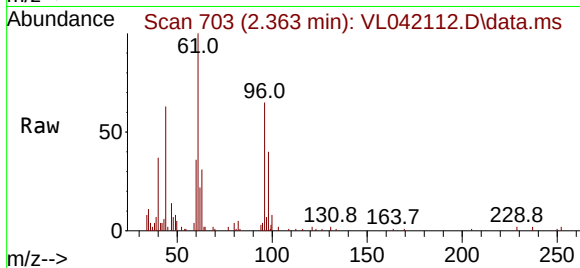




#22
trans-1,2-Dichloroethene
Concen: 0.493 ppbv
RT: 2.363 min Scan# 703
Delta R.T. 0.013 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

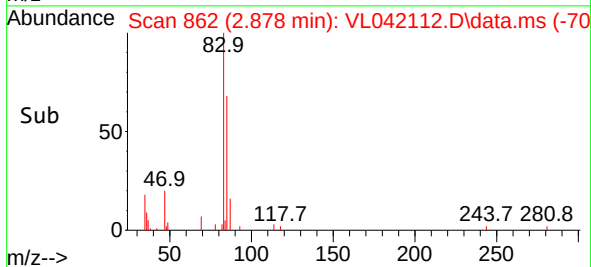
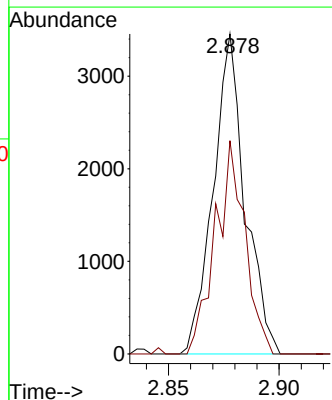
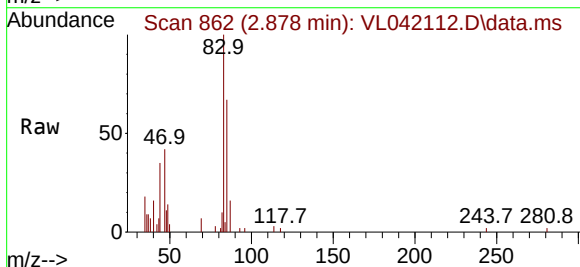
Instrument :
MSVOA_L
ClientSampleId :
SV2

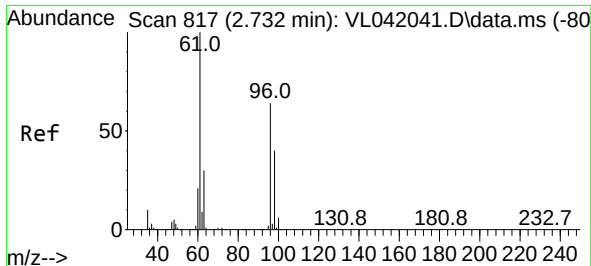
Tgt Ion: 96 Resp: 3442
Ion Ratio Lower Upper
96 100
61 153.5 136.6 205.0
98 61.1 51.8 77.6



#29
Chloroform
Concen: 0.113 ppbv
RT: 2.878 min Scan# 862
Delta R.T. 0.016 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 83 Resp: 3452
Ion Ratio Lower Upper
83 100
85 66.7 51.2 76.8

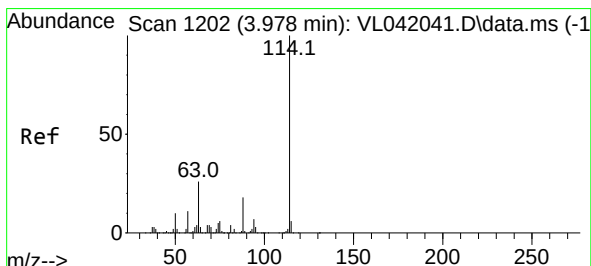
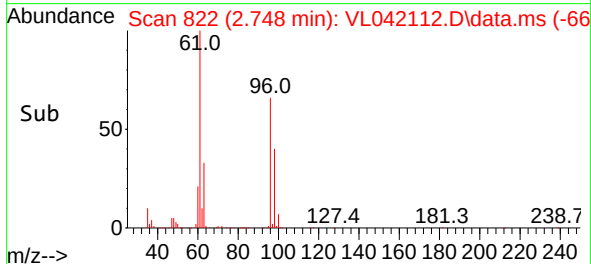
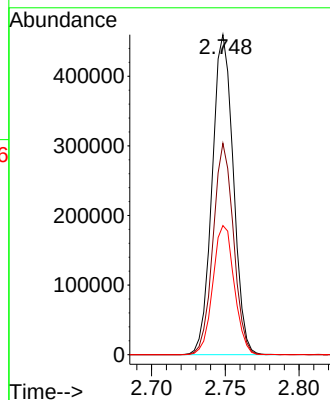
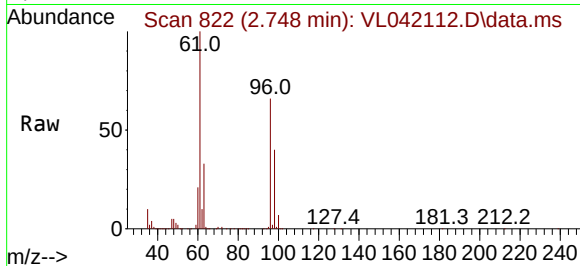




#31
 cis-1,2-Dichloroethene
 Concen: 21.229 ppbv
 RT: 2.748 min Scan# 81
 Delta R.T. 0.016 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

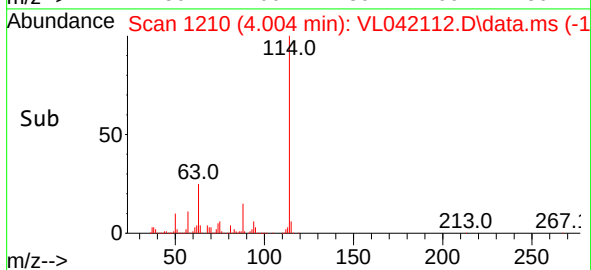
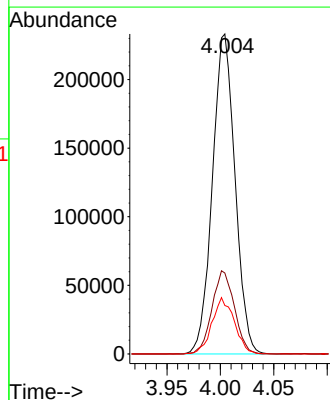
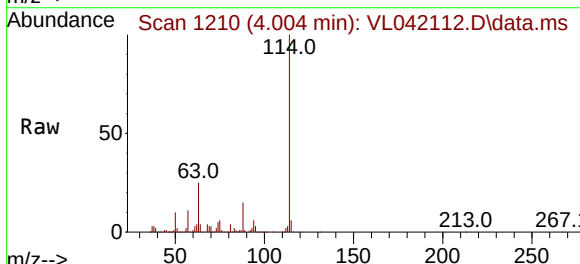
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

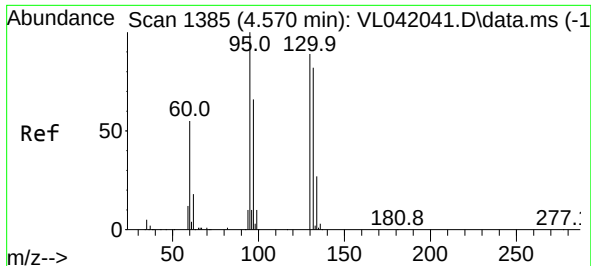
Tgt Ion: 61 Resp: 458160
 Ion Ratio Lower Upper
 61 100
 96 66.1 51.5 77.3
 98 40.4 32.0 48.0



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 4.004 min Scan# 1210
 Delta R.T. 0.026 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

Tgt Ion: 114 Resp: 343542
 Ion Ratio Lower Upper
 114 100
 63 25.8 20.1 30.1
 88 17.3 14.3 21.5

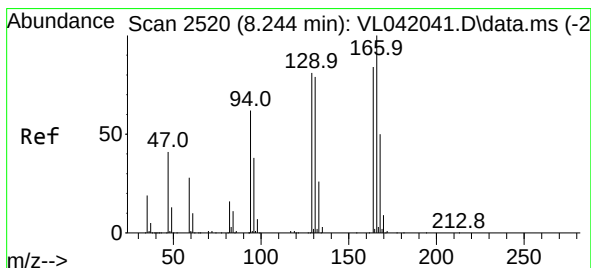
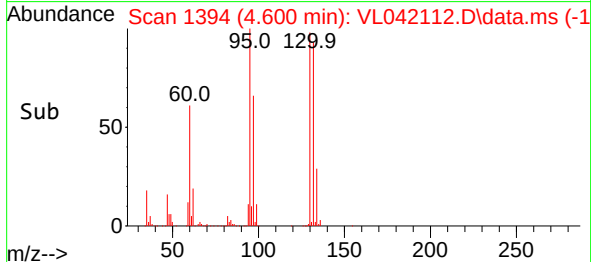
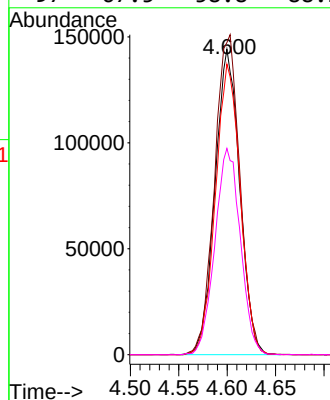
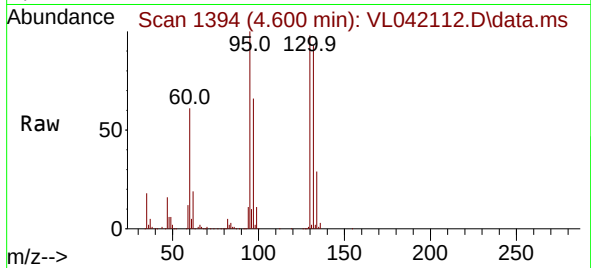




#38
 Trichloroethene
 Concen: 17.430 ppbv
 RT: 4.600 min Scan# 11
 Delta R.T. 0.029 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

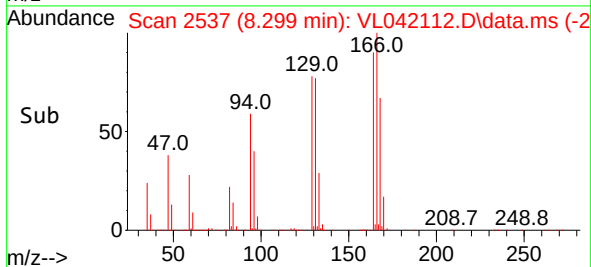
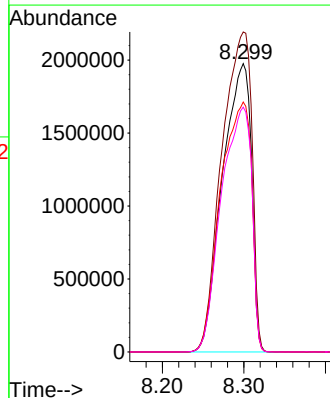
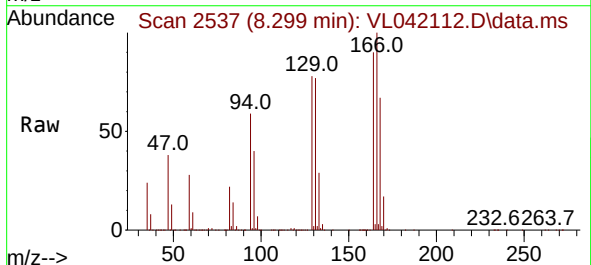
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

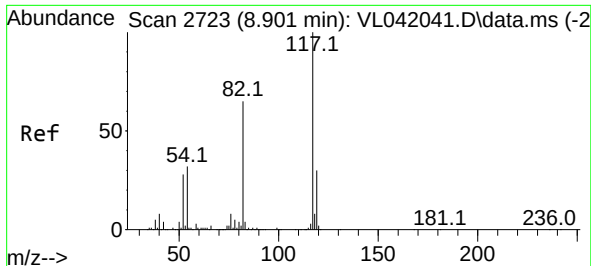
Tgt Ion:130	Resp: 255971
Ion Ratio	Lower Upper
130 100	
95 102.2	89.5 134.3
132 95.1	73.8 110.6
97 67.5	58.8 88.2



#52
 Tetrachloroethene
 Concen: 394.867 ppbv
 RT: 8.299 min Scan# 2537
 Delta R.T. 0.055 min
 Lab File: VL042112.D
 Acq: 05 Mar 2025 19:37

Tgt	Ion:164	Resp:	4861503
Ion	Ratio	Lower	Upper
164	100		
166	111.0	95.7	143.5
129	86.7	77.1	115.7
131	84.9	76.0	114.0

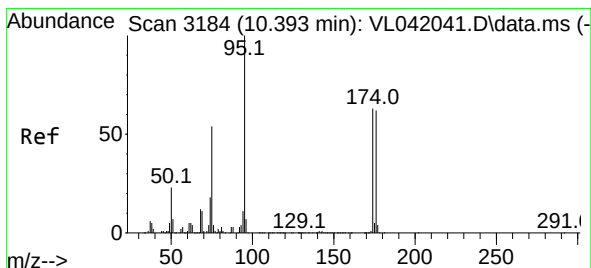
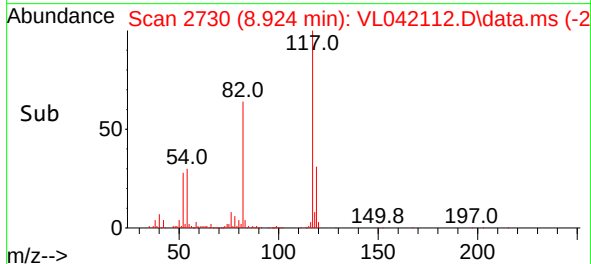
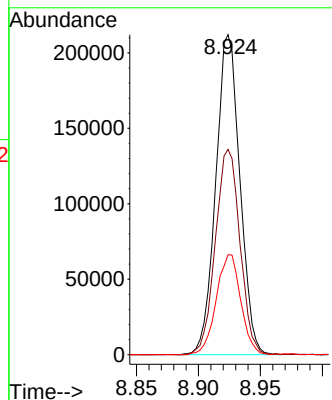
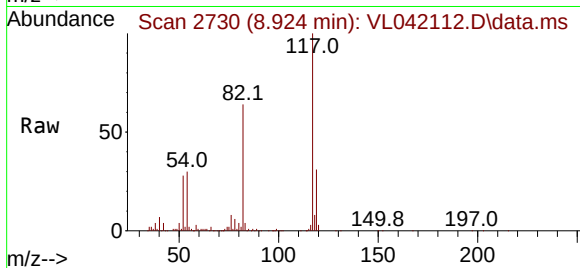




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.924 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

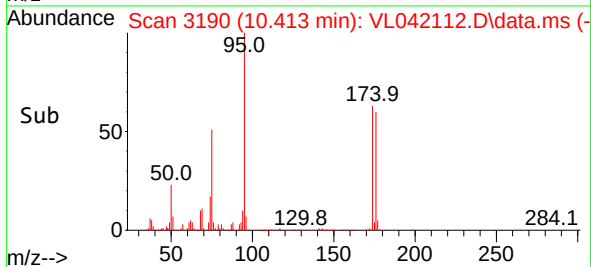
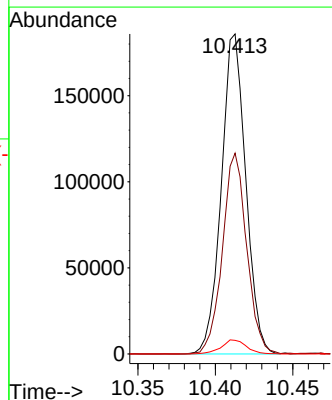
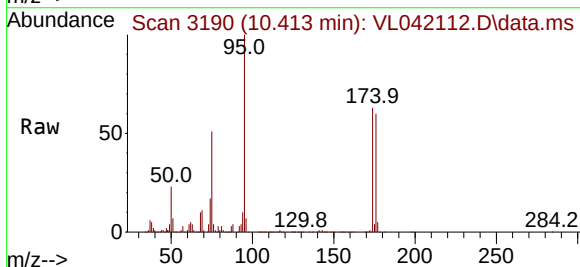
Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 117 Resp: 288034
Ion Ratio Lower Upper
117 100
82 65.5 55.0 82.6
119 32.0 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.208 ppbv
RT: 10.413 min Scan# 3190
Delta R.T. 0.020 min
Lab File: VL042112.D
Acq: 05 Mar 2025 19:37

Tgt Ion: 95 Resp: 204044
Ion Ratio Lower Upper
95 100
174 62.3 51.8 77.6
175 4.5 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	SV3	SDG No.:	Q1483
Lab Sample ID:	Q1483-05	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042101.D	4		03/05/25 13:16	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.060	0.15	U	0.15	0.31	ug/m3
75-35-4	1,1-Dichloroethene	0.56	2.22	U	2.22	7.93	ug/m3
156-59-2	cis-1,2-Dichloroethene	12.4	49.2		1.43	7.93	ug/m3
71-55-6	1,1,1-Trichloroethane	0.040	0.22	U	0.22	0.65	ug/m3
79-01-6	Trichloroethene	510	2740	E	0.38	0.64	ug/m3
127-18-4	Tetrachloroethene	6100	41400	E	0.41	0.81	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.2			65 - 135	102%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	171000			2.806		
540-36-3	1,4-Difluorobenzene	396000			3.988		
3114-55-4	Chlorobenzene-d5	368000			8.917		

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\VL030525\
 Data File : VL042101.D
 Acq On : 05 Mar 2025 13:16
 Operator : SY/MD
 Sample : Q1483-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:07:06 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

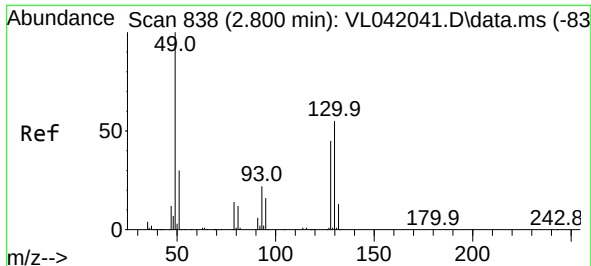
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

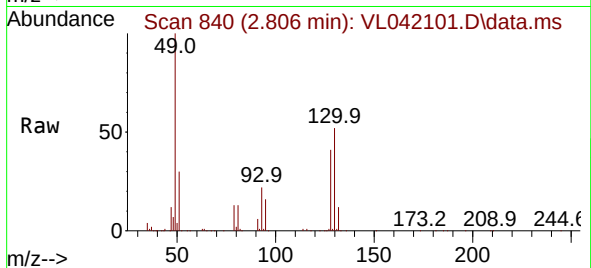
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.806	49	170910	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.988	114	395541	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.917	117	368402	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	289610	10.218	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.200%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.505	85	4482	0.252	ppbv	99
3) Chlorodifluoromethane	1.483	51	195885m	7.886	ppbv	
4) Chloromethane	1.541	50	1611	0.245	ppbv #	86
9) Propene	1.489	41	20710	2.047	ppbv	89
10) Heptane	5.020	43	15091m	0.479	ppbv	
11) Trichlorofluoromethane	1.890	101	4168	0.234	ppbv	85
13) Ethanol	1.732	45	15231	23.710	ppbv	98
15) Acetone	1.848	43	280700	18.598	ppbv	94
19) Isopropyl Alcohol	1.900	45	14430	1.664	ppbv #	1
20) Methylene Chloride	2.078	84	2447	0.429	ppbv #	71
22) trans-1,2-Dichloroethene	2.357	96	8808	1.177	ppbv	85
26) Hexane	2.845	57	74480	3.049	ppbv #	34
29) Chloroform	2.868	83	50161	1.526	ppbv	95
31) cis-1,2-Dichloroethene	2.742	61	71664	3.100	ppbv	97
34) 2-Butanone	2.577	43	105117	3.411	ppbv	96
35) Carbon Tetrachloride	3.797	117	845m	0.031	ppbv	
36) Benzene	3.684	78	12204	0.295	ppbv	99
38) Trichloroethene	4.587	130	2161401	127.831	ppbv	98
41) Tetrahydrofuran	3.088	42	10168m	0.558	ppbv	
52) Tetrachloroethene	8.396	164	21700452m	1530.867	ppbv	
53) Toluene	6.972	91	52294m	1.130	ppbv	
58) Ethyl Benzene	9.387	91	27047	0.399	ppbv	93
59) m/p-Xylene	9.561	91	50697	0.939	ppbv #	100
60) o-Xylene	9.989	91	27448	0.506	ppbv	100
62) Isopropylbenzene	10.565	105	10157	0.125	ppbv	99
64) n-propylbenzene	11.011	120	5108	0.240	ppbv	75
69) p-Isopropyltoluene	11.947	119	13541	0.161	ppbv	96
73) 1,3,5-Trimethylbenzene	11.225	105	12204	0.212	ppbv	94
74) 1,2,4-Trimethylbenzene	11.558	105	18954	0.293	ppbv #	60

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



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.806 min Scan# 84
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

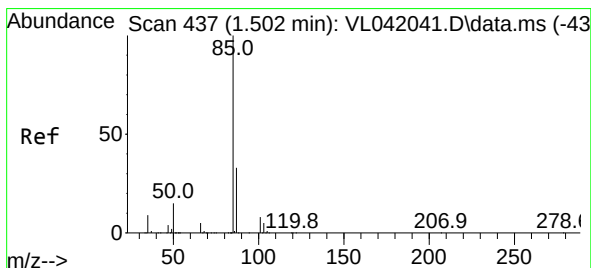
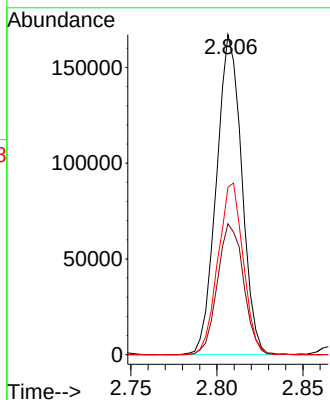
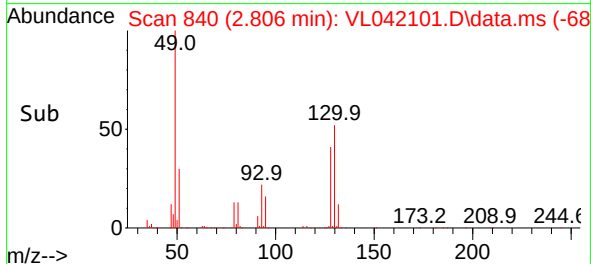
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 49 Resp: 170910
Ion Ratio Lower Upper
49 100
128 42.2 21.6 64.8
130 53.5 27.8 83.4

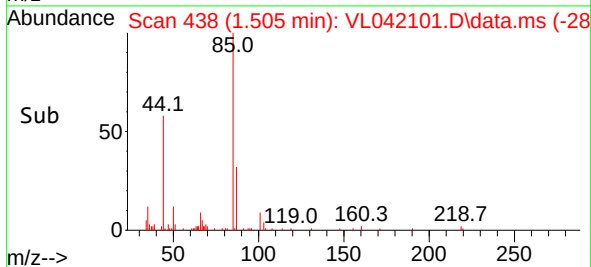
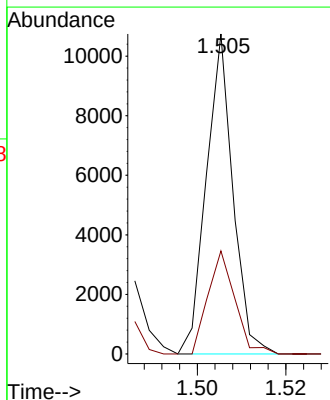
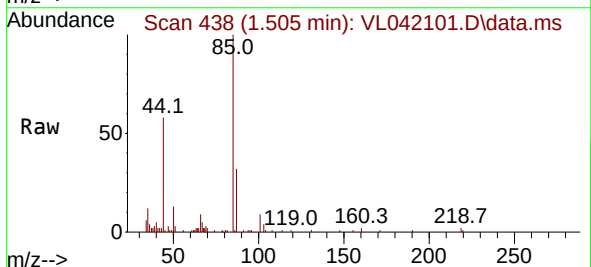
Manual Integrations
APPROVED

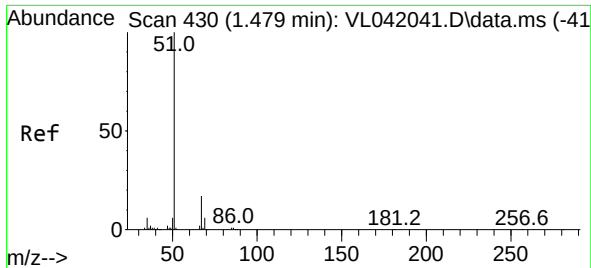
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#2
Dichlorodifluoromethane
Concen: 0.252 ppbv
RT: 1.505 min Scan# 438
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

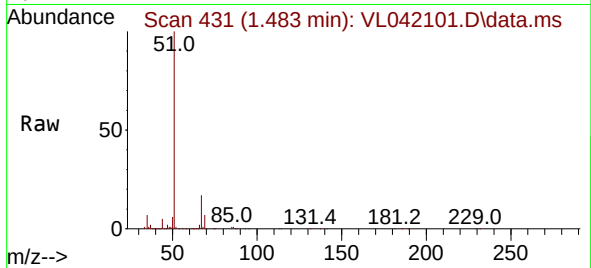
Tgt Ion: 85 Resp: 4482
Ion Ratio Lower Upper
85 100
87 32.2 26.4 39.6





#3
Chlorodifluoromethane
Concen: 7.886 ppbv m
RT: 1.483 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

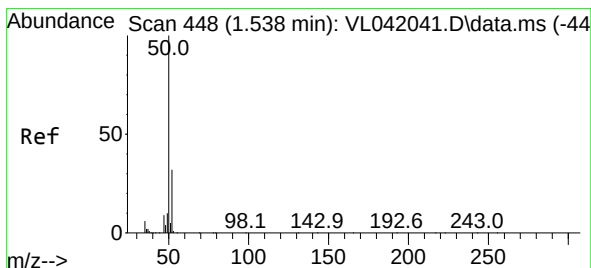
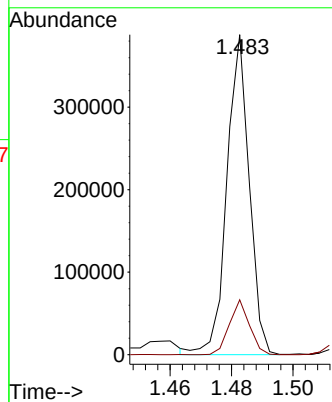
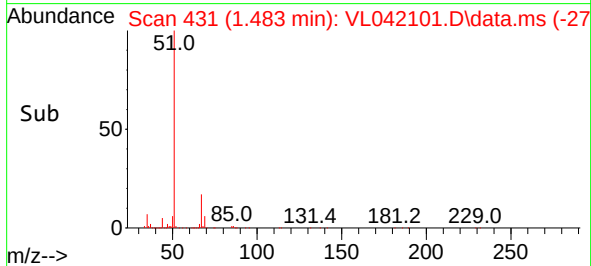
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 51 Resp: 19588
Ion Ratio Lower Upper
51 100
67 15.6 13.7 20.5

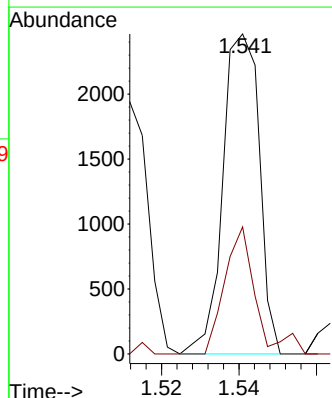
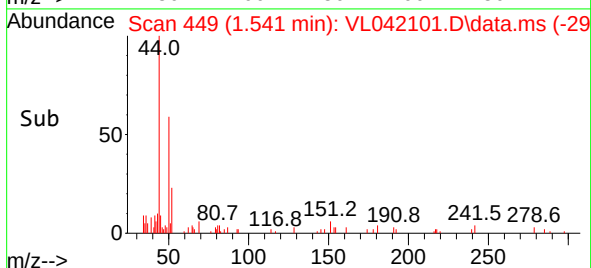
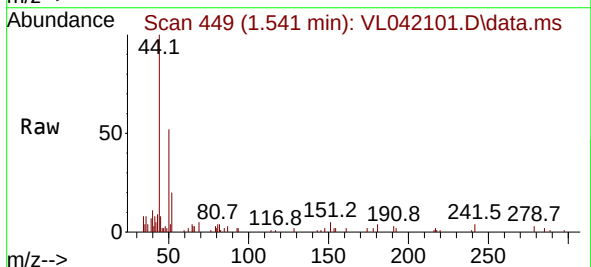
Manual Integrations
APPROVED

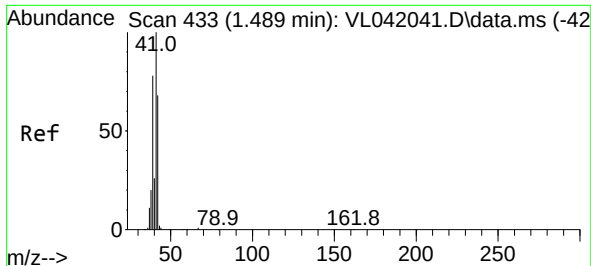
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#4
Chloromethane
Concen: 0.245 ppbv
RT: 1.541 min Scan# 449
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

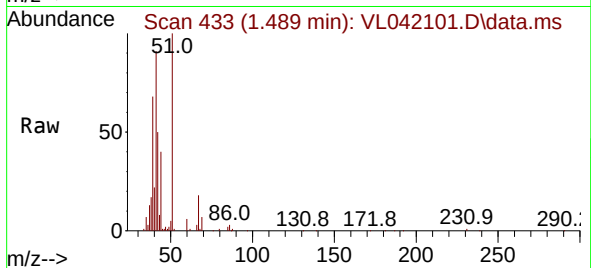
Tgt Ion: 50 Resp: 1611
Ion Ratio Lower Upper
50 100
52 39.7 25.4 38.0#





#9
 Propene
 Concen: 2.047 ppbv
 RT: 1.489 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

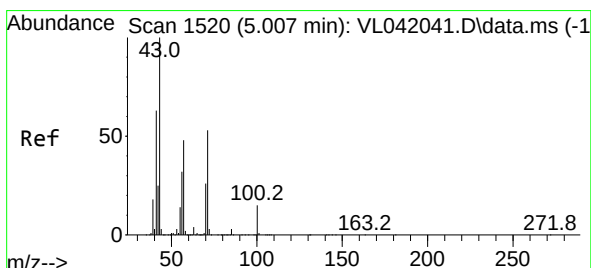
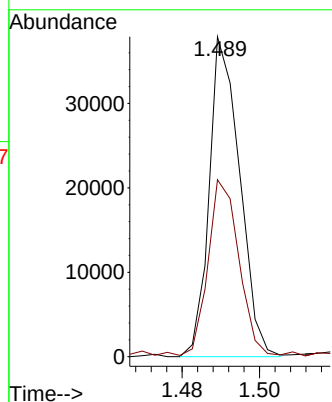
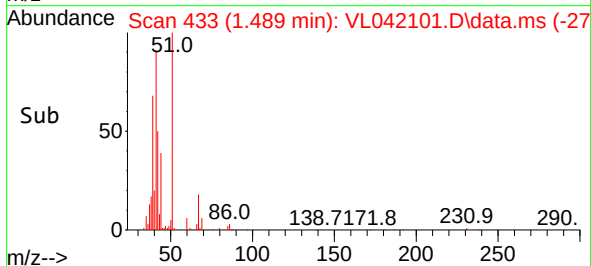
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



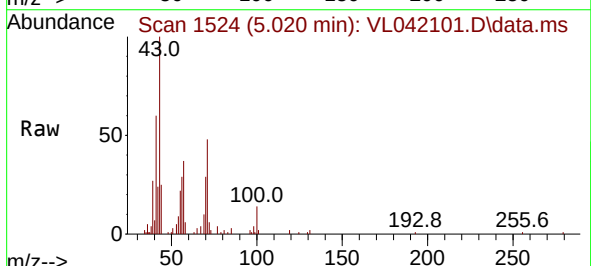
Tgt Ion: 41 Resp: 20710
 Ion Ratio Lower Upper
 41 100
 42 60.6 55.8 83.6

Manual Integrations
 APPROVED

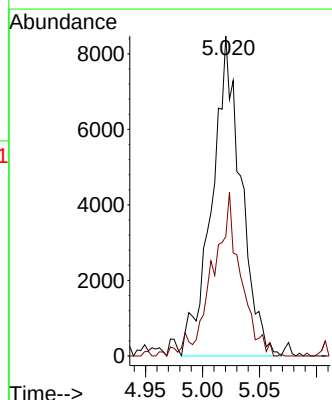
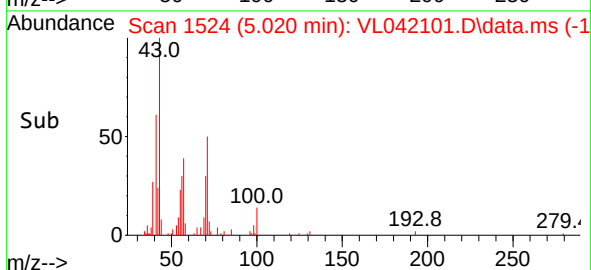
Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

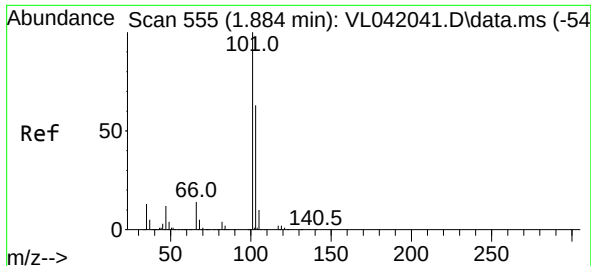


#10
 Heptane
 Concen: 0.479 ppbv m
 RT: 5.020 min Scan# 1524
 Delta R.T. 0.013 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16



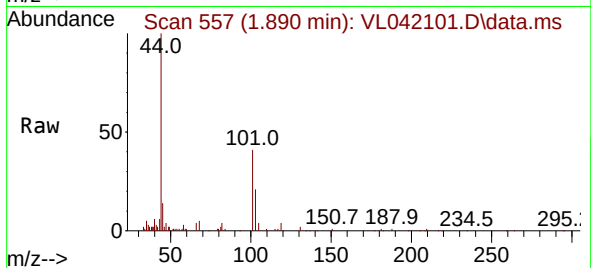
Tgt Ion: 43 Resp: 15091
 Ion Ratio Lower Upper
 43 100
 57 49.2 39.4 59.0





#11
Trichlorofluoromethane
Concen: 0.234 ppbv
RT: 1.890 min Scan# 508
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

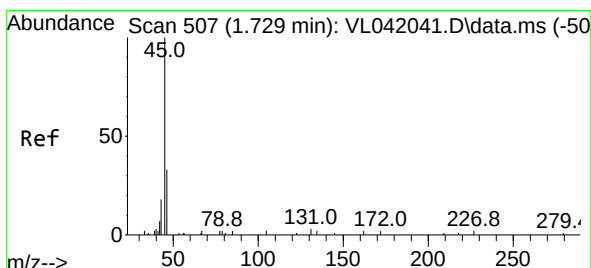
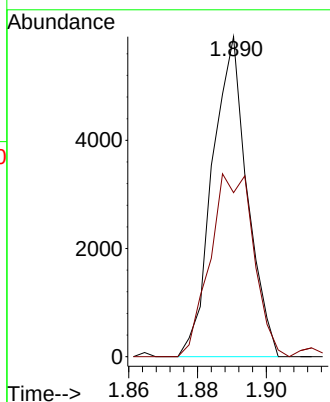
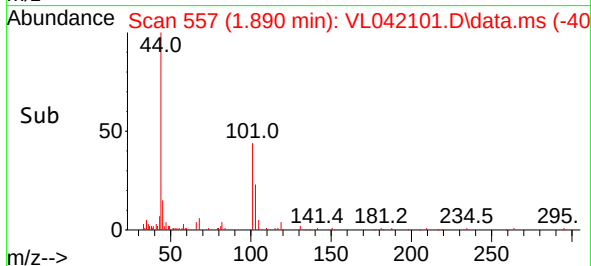
Instrument :
MSVOA_L
ClientSampleId :
SV3



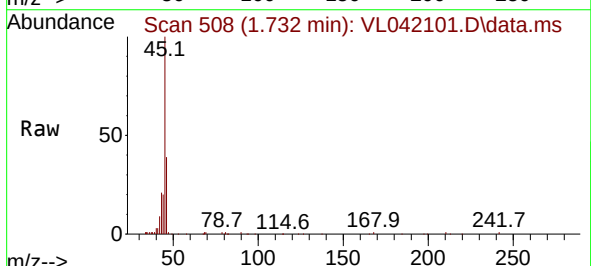
Tgt Ion:101 Resp: 4168
Ion Ratio Lower Upper
101 100
103 51.3 50.6 75.8

Manual Integrations
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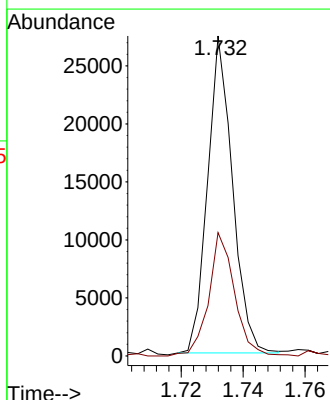
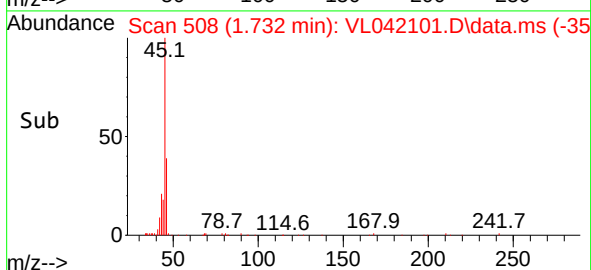
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

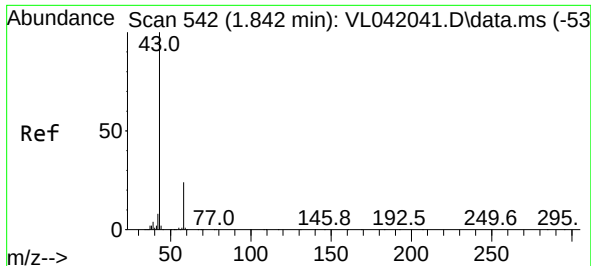


#13
Ethanol
Concen: 23.710 ppbv
RT: 1.732 min Scan# 508
Delta R.T. 0.003 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16



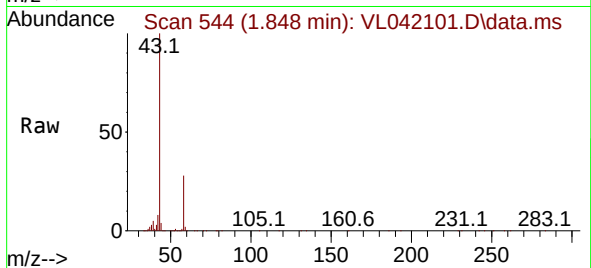
Tgt Ion: 45 Resp: 15231
Ion Ratio Lower Upper
45 100
46 41.7 17.1 68.3





#15
Acetone
Concen: 18.598 ppbv
RT: 1.848 min Scan# 54
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

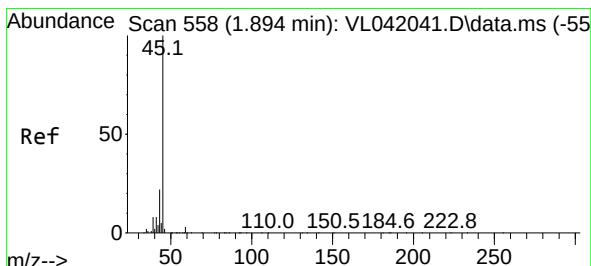
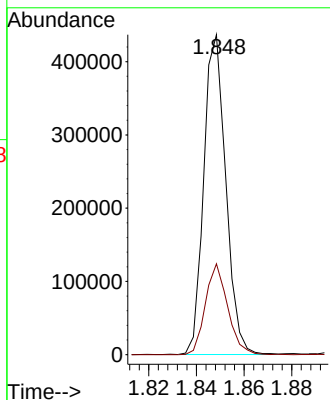
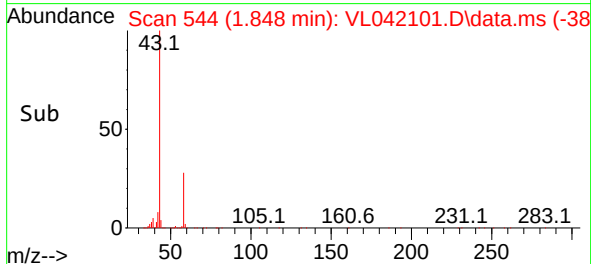
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 43 Resp: 280700
Ion Ratio Lower Upper
43 100
58 28.7 20.7 31.1

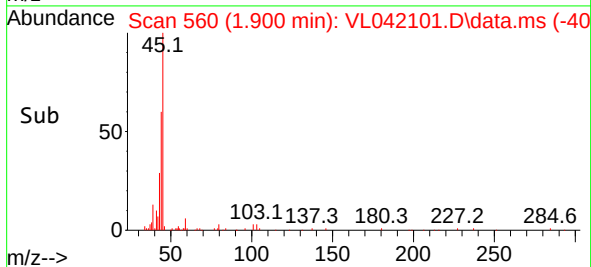
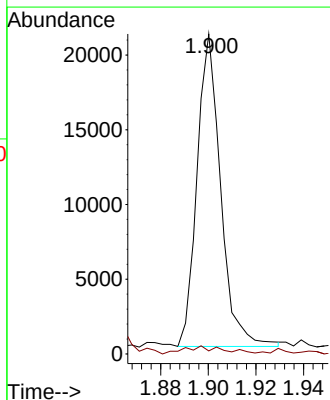
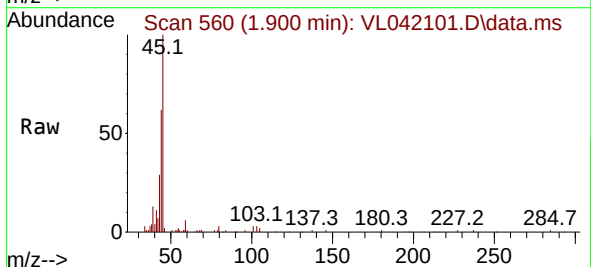
Manual Integrations
APPROVED

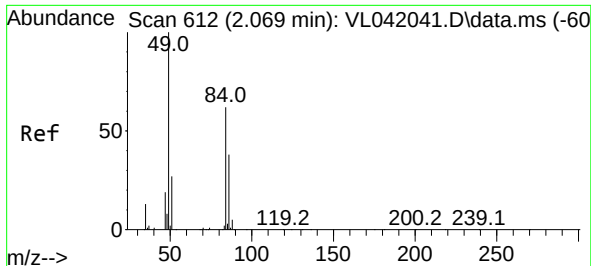
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#19
Isopropyl Alcohol
Concen: 1.664 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

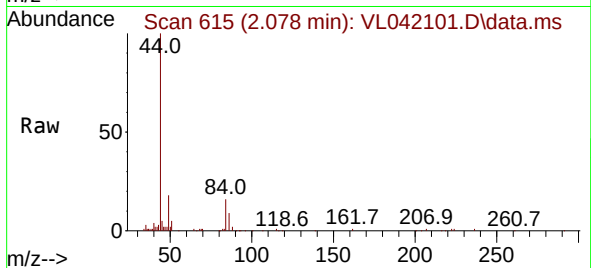
Tgt Ion: 45 Resp: 14430
Ion Ratio Lower Upper
45 100
58 558.6 35.3 52.9#





#20
Methylene Chloride
Concen: 0.429 ppbv
RT: 2.078 min Scan# 612
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

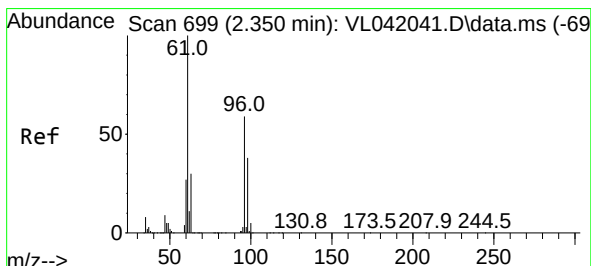
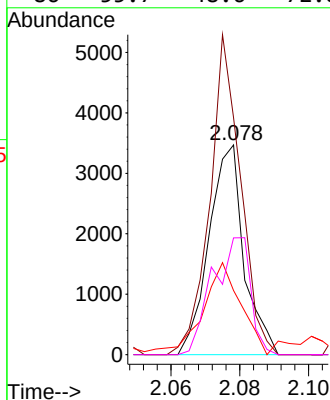
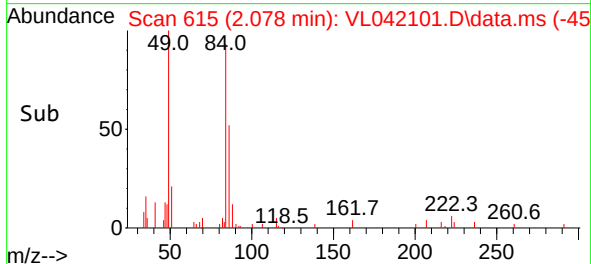
Instrument :
MSVOA_L
ClientSampleId :
SV3



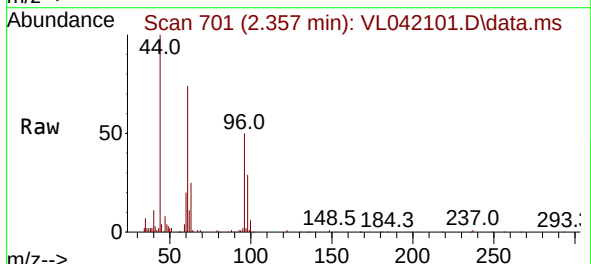
Tgt Ion: 84 Resp: 244
Ion Ratio Lower Upper
84 100
49 112.9 130.0 195.0
51 26.9 37.4 56.0
86 55.7 48.6 72.8

Manual Integrations
APPROVED

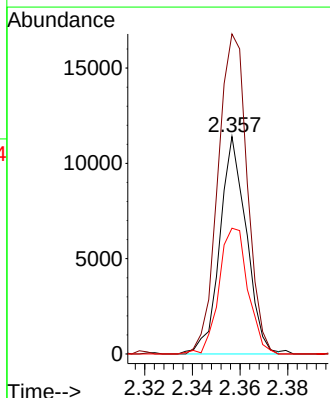
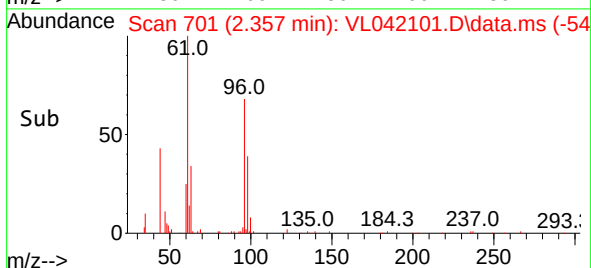
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

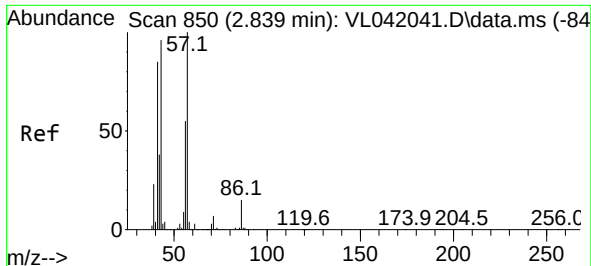


#22
trans-1,2-Dichloroethene
Concen: 1.177 ppbv
RT: 2.357 min Scan# 701
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16



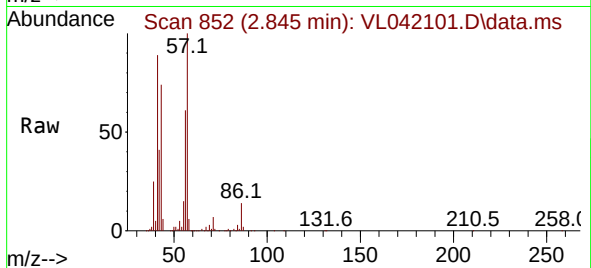
Tgt Ion: 96 Resp: 8808
Ion Ratio Lower Upper
96 100
61 147.2 136.6 205.0
98 57.9 51.8 77.6





#26
Hexane
Concen: 3.049 ppbv
RT: 2.845 min Scan# 850
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

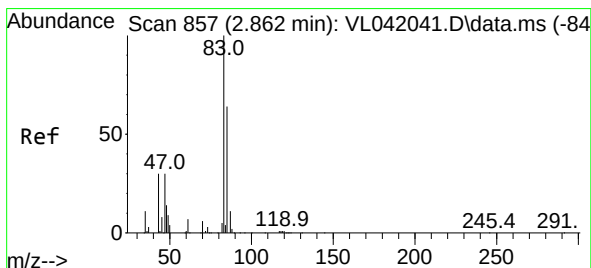
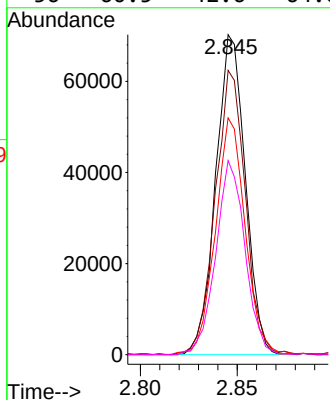
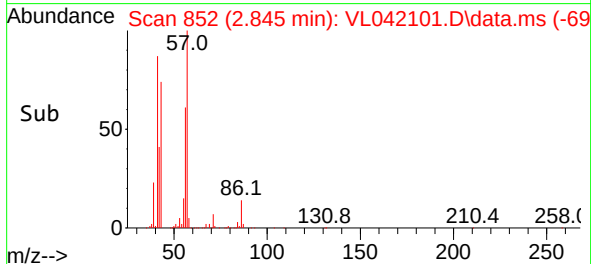
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 57 Resp: 74480
Ion Ratio Lower Upper
57 100
41 91.5 70.6 106.0
43 74.2 199.4 299.0
56 60.5 42.6 64.0

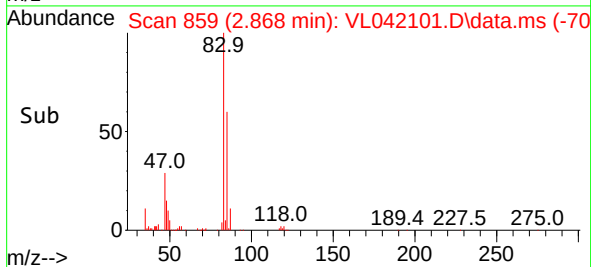
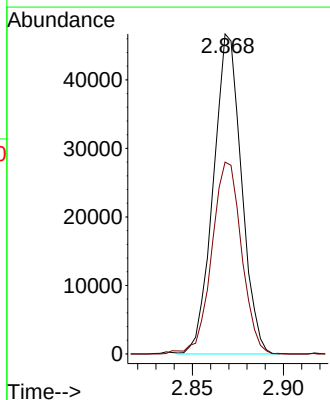
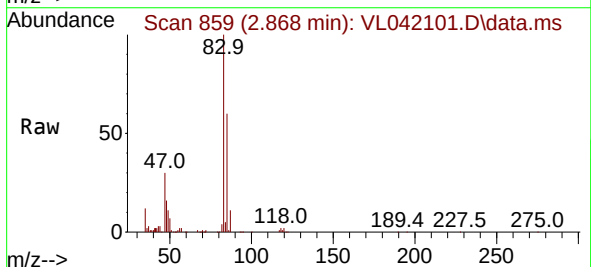
Manual Integrations
APPROVED

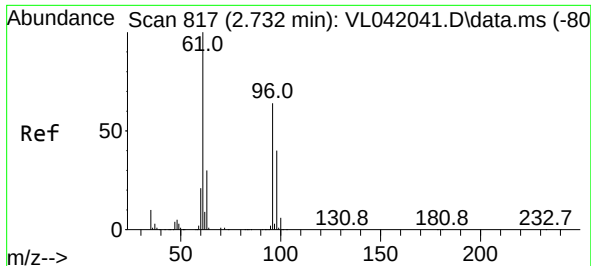
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#29
Chloroform
Concen: 1.526 ppbv
RT: 2.868 min Scan# 859
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 83 Resp: 50161
Ion Ratio Lower Upper
83 100
85 59.8 51.2 76.8





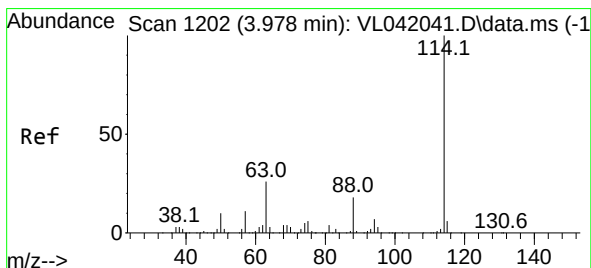
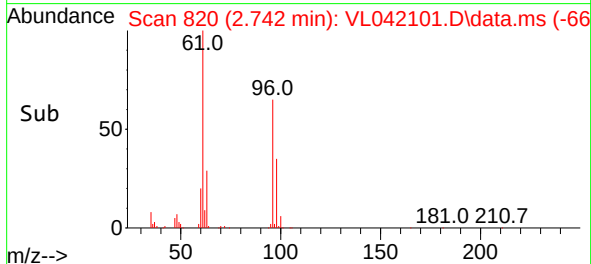
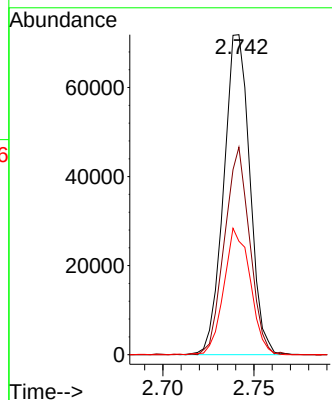
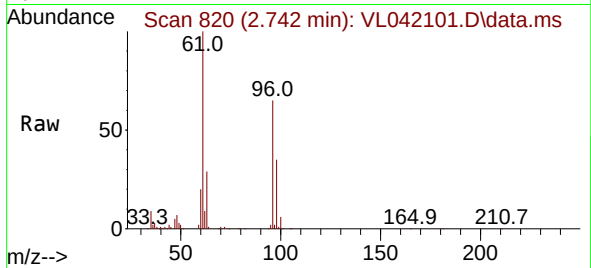
#31
 cis-1,2-Dichloroethene
 Concen: 3.100 ppbv
 RT: 2.742 min Scan# 817
 Delta R.T. 0.010 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3

Tgt Ion: 61 Resp: 71664
 Ion Ratio Lower Upper
 61 100
 96 64.8 51.5 77.3
 98 35.4 32.0 48.0

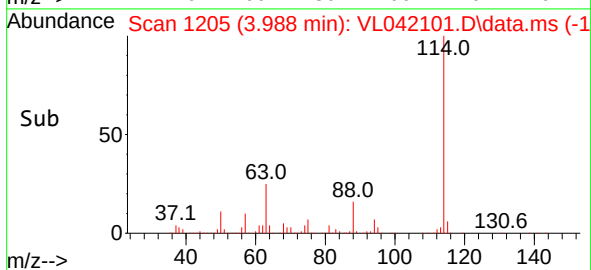
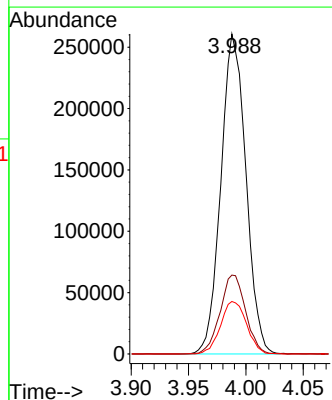
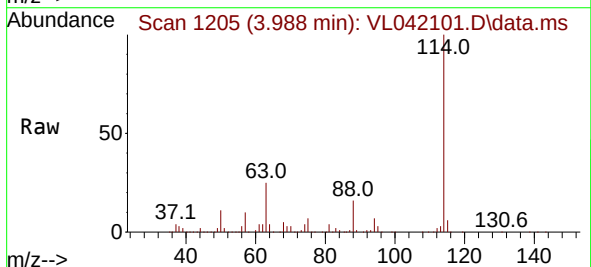
Manual Integrations
 APPROVED

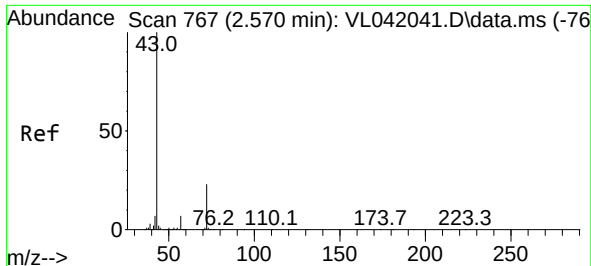
Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.988 min Scan# 1205
 Delta R.T. 0.010 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

Tgt Ion:114 Resp: 395541
 Ion Ratio Lower Upper
 114 100
 63 25.1 20.1 30.1
 88 17.1 14.3 21.5





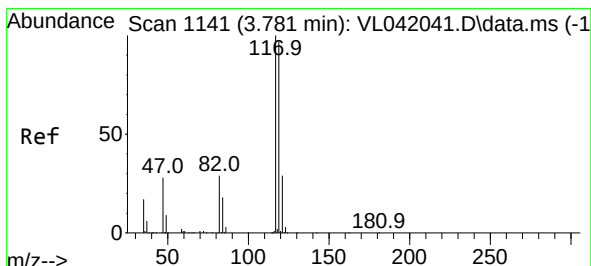
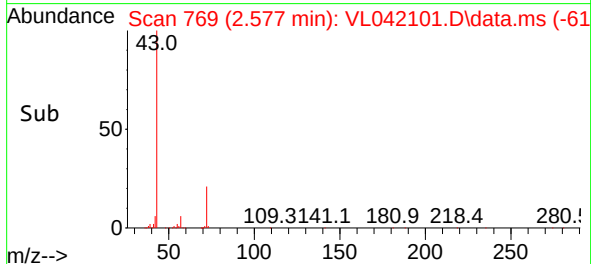
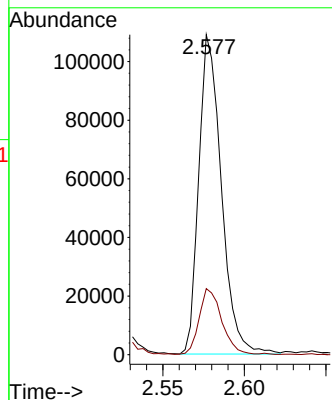
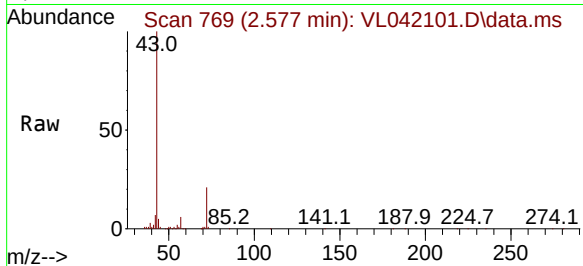
#34
2-Butanone
Concen: 3.411 ppbv
RT: 2.577 min Scan# 769
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 43 Resp: 105117
Ion Ratio Lower Upper
43 100
72 21.2 18.5 27.7

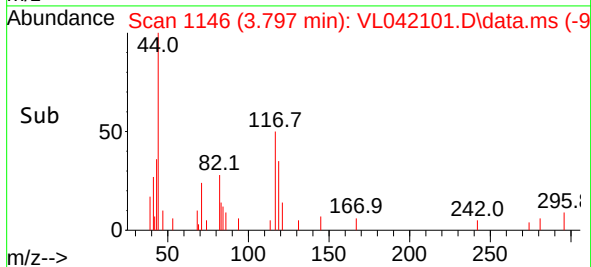
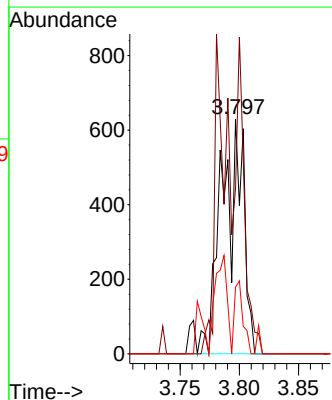
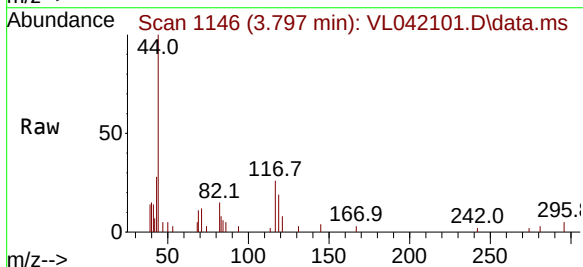
Manual Integrations
APPROVED

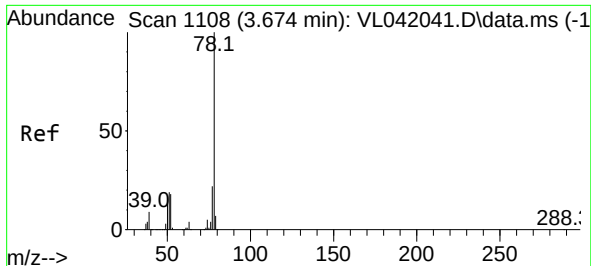
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#35
Carbon Tetrachloride
Concen: 0.031 ppbv m
RT: 3.797 min Scan# 1146
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

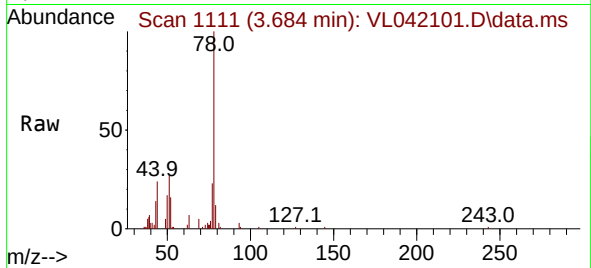
Tgt Ion:117 Resp: 845
Ion Ratio Lower Upper
117 100
119 70.6 77.8 116.8#
121 28.5 23.4 35.0





#36
Benzene
Concen: 0.295 ppbv
RT: 3.684 min Scan# 1111
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

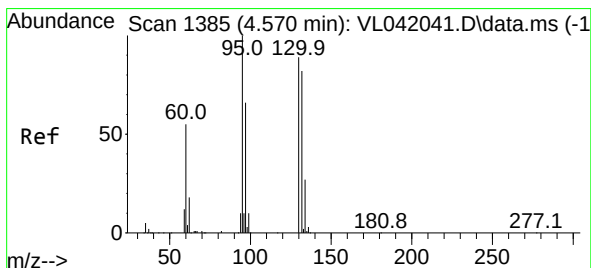
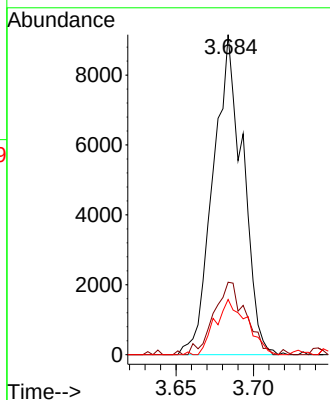
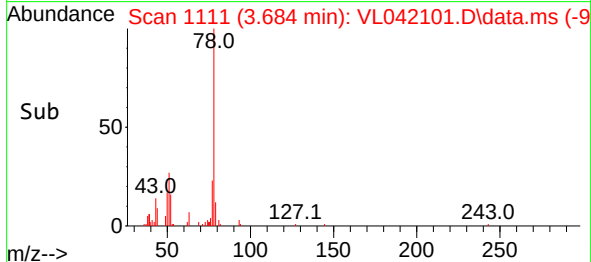
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 78 Resp: 12204
Ion Ratio Lower Upper
78 100
77 22.7 17.7 26.5
50 17.3 13.9 20.9

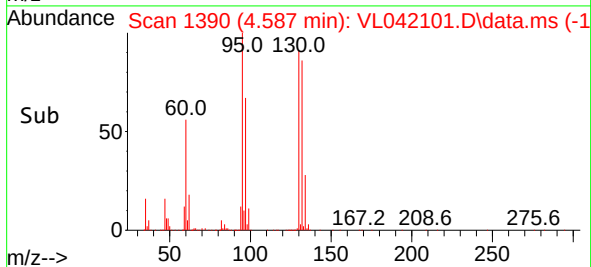
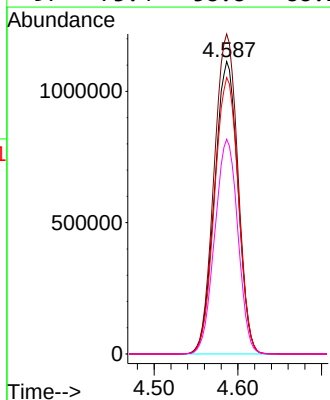
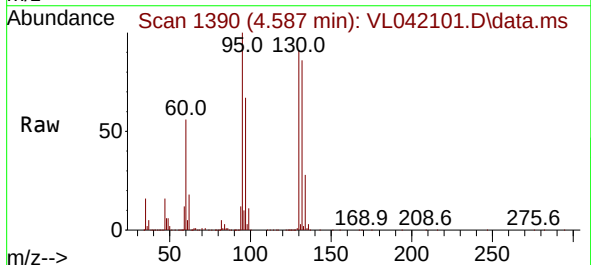
Manual Integrations
APPROVED

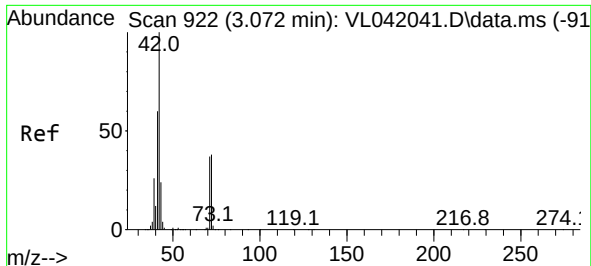
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#38
Trichloroethene
Concen: 127.831 ppbv
RT: 4.587 min Scan# 1390
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

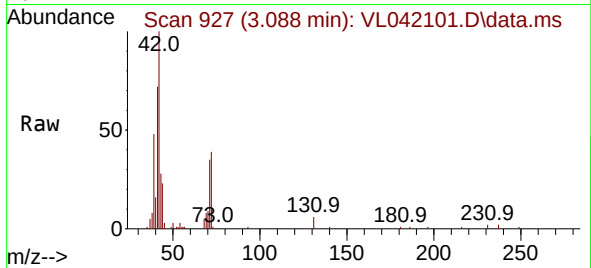
Tgt Ion:130 Resp: 2161401
Ion Ratio Lower Upper
130 100
95 109.4 89.5 134.3
132 94.5 73.8 110.6
97 73.4 58.8 88.2





#41
Tetrahydrofuran
Concen: 0.558 ppbv m
RT: 3.088 min Scan# 91
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

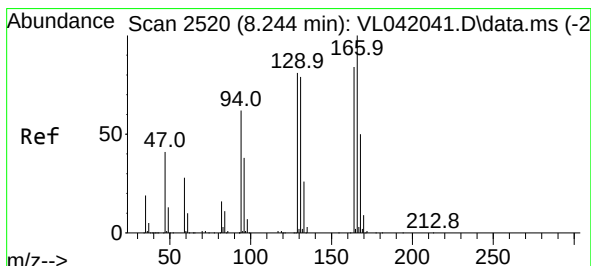
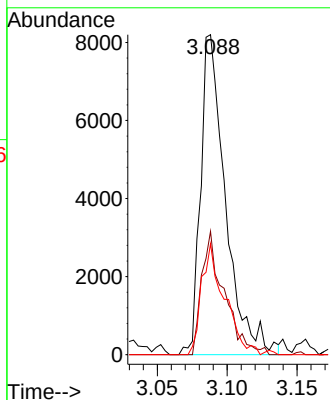
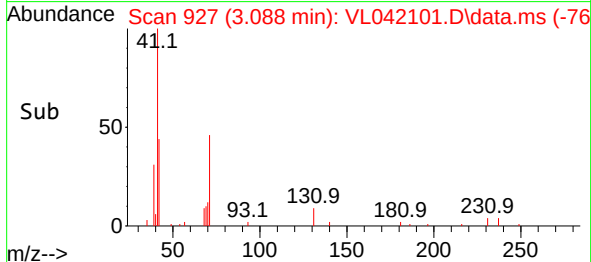
Instrument :
MSVOA_L
ClientSampleId :
SV3



Tgt Ion: 42 Resp: 10168
Ion Ratio Lower Upper
42 100
72 34.9 30.2 45.2
71 32.4 28.2 42.4

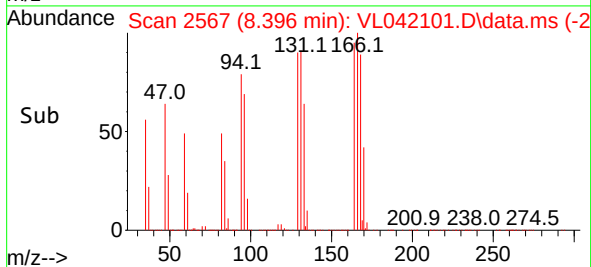
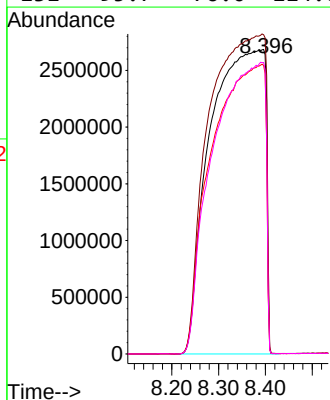
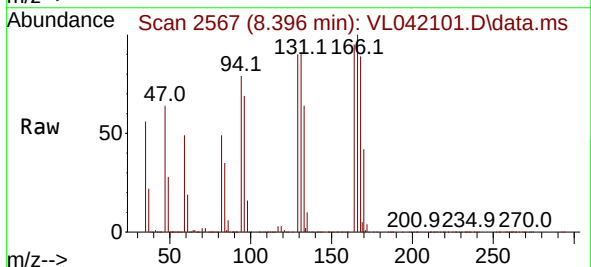
Manual Integrations
APPROVED

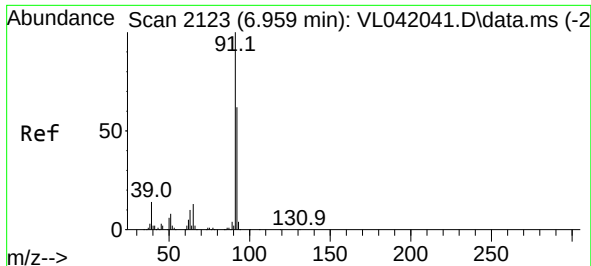
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#52
Tetrachloroethene
Concen: 1530.867 ppbv m
RT: 8.396 min Scan# 2567
Delta R.T. 0.152 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

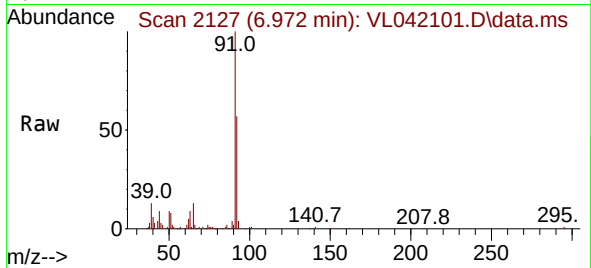
Tgt Ion:164 Resp:21700452
Ion Ratio Lower Upper
164 100
166 104.8 95.7 143.5
129 94.8 77.1 115.7
131 95.7 76.0 114.0





#53
Toluene
Concen: 1.130 ppbv m
RT: 6.972 min Scan# 2123
Delta R.T. 0.013 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

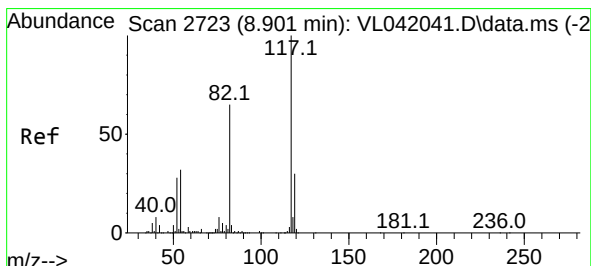
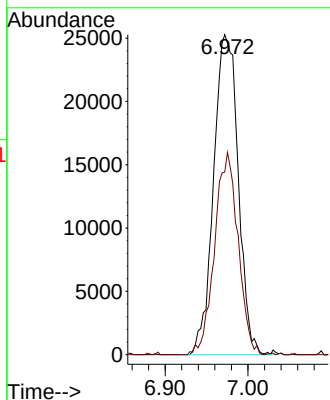
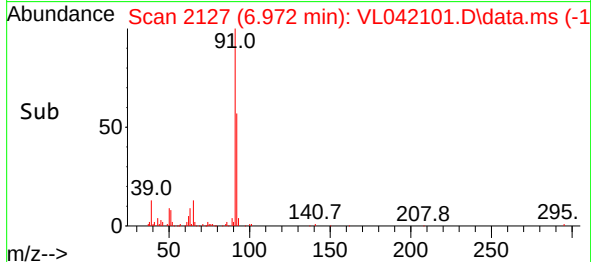
Instrument :
MSVOA_L
ClientSampleId :
SV3



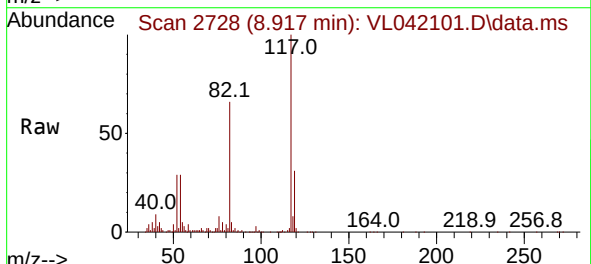
Tgt Ion: 91 Resp: 52294
Ion Ratio Lower Upper
91 100
92 60.1 49.0 73.6

Manual Integrations
APPROVED

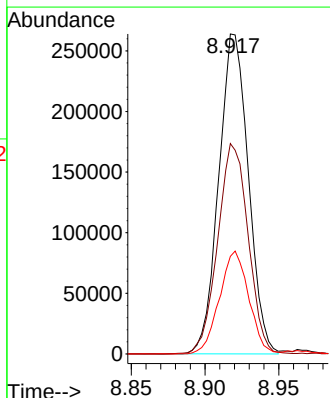
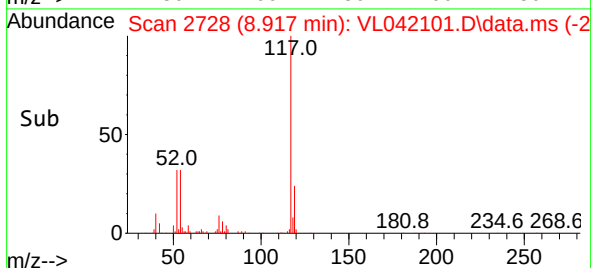
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

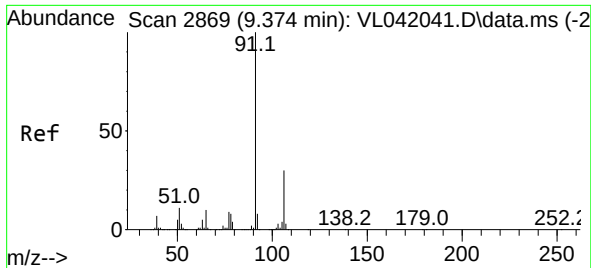


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.917 min Scan# 2728
Delta R.T. 0.016 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16



Tgt Ion:117 Resp: 368402
Ion Ratio Lower Upper
117 100
82 67.9 55.0 82.6
119 32.9 25.9 38.9





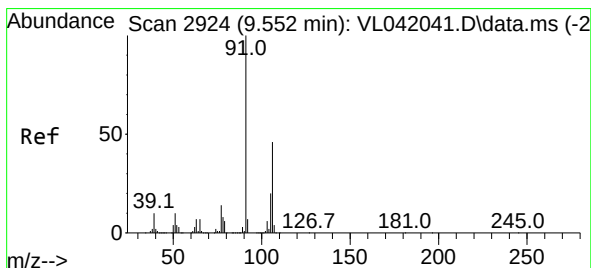
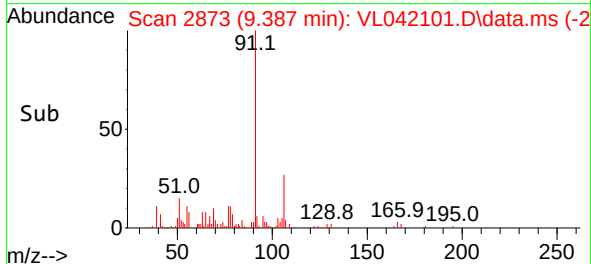
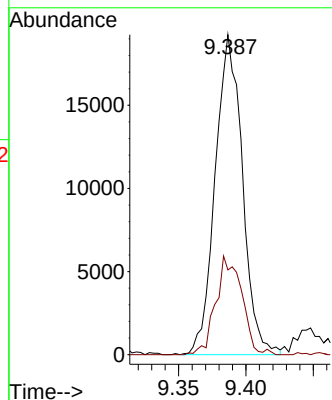
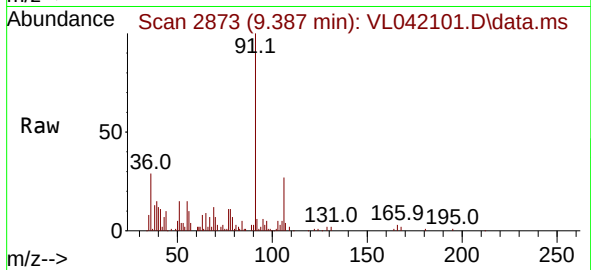
#58
Ethyl Benzene
Concen: 0.399 ppbv
RT: 9.387 min Scan# 2104
Delta R.T. 0.013 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 91 Resp: 2704
Ion Ratio Lower Upper
91 100
106 26.5 24.2 36.2

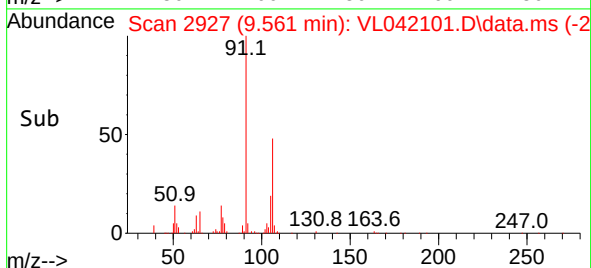
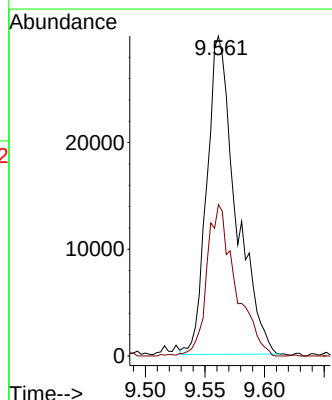
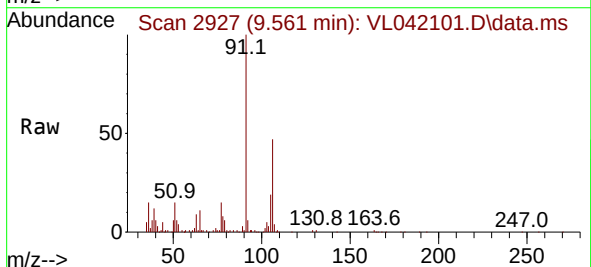
Manual Integrations
APPROVED

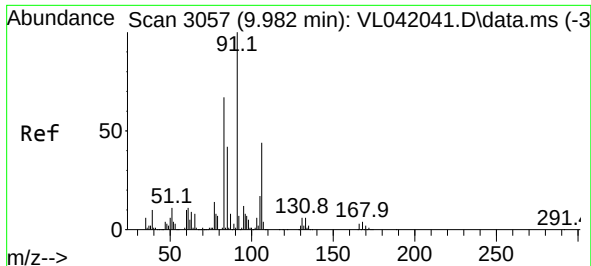
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#59
m/p-Xylene
Concen: 0.939 ppbv
RT: 9.561 min Scan# 2927
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

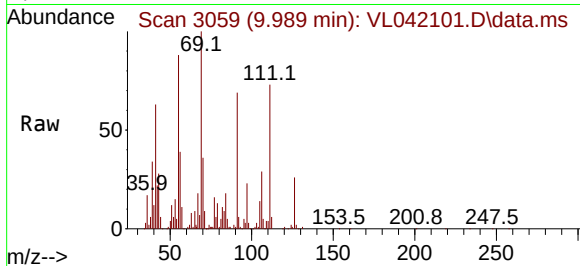
Tgt Ion: 91 Resp: 50697
Ion Ratio Lower Upper
91 100
106 47.1 0.0 0.0#





#60
o-Xylene
Concen: 0.506 ppbv
RT: 9.989 min Scan# 3057
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

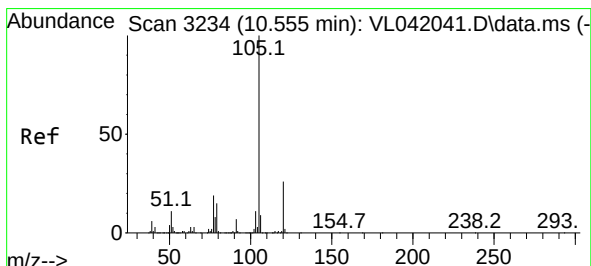
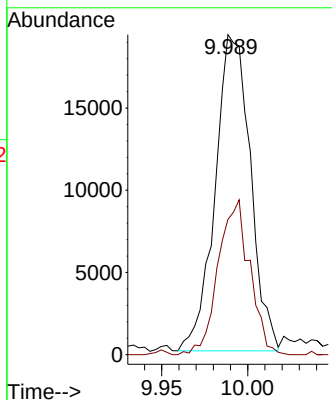
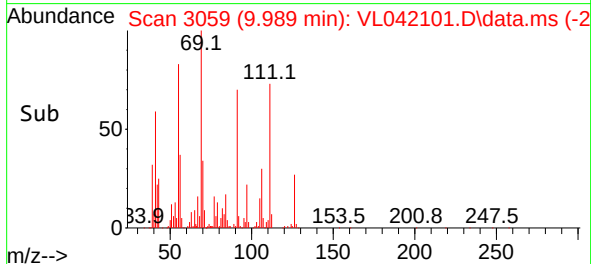
Instrument :
MSVOA_L
ClientSampleId :
SV3



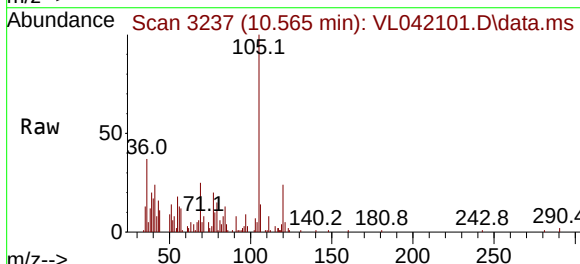
Tgt Ion: 91 Resp: 2744
Ion Ratio Lower Upper
91 100
106 44.2 22.3 66.8

Manual Integrations
APPROVED

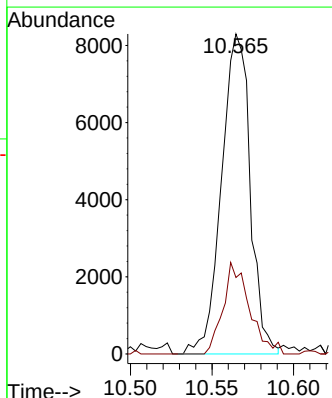
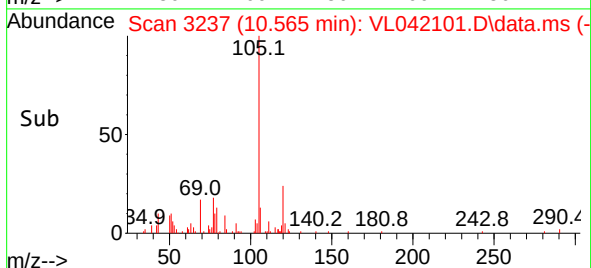
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

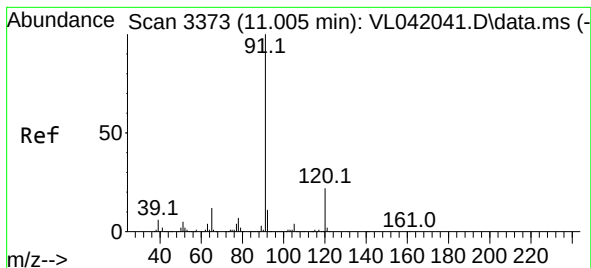


#62
Isopropylbenzene
Concen: 0.125 ppbv
RT: 10.565 min Scan# 3237
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16



Tgt Ion:105 Resp: 10157
Ion Ratio Lower Upper
105 100
120 26.3 20.7 31.1





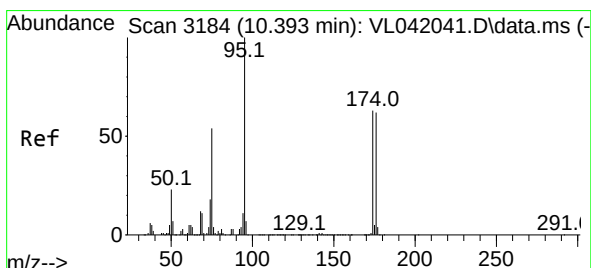
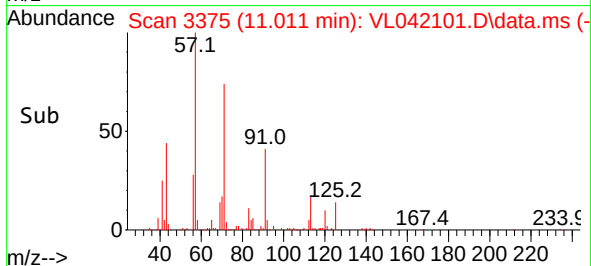
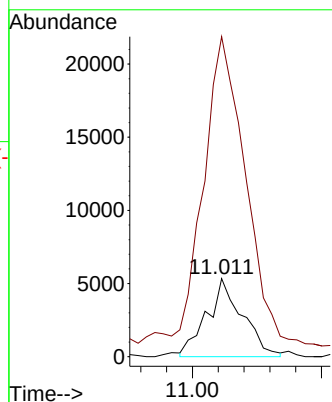
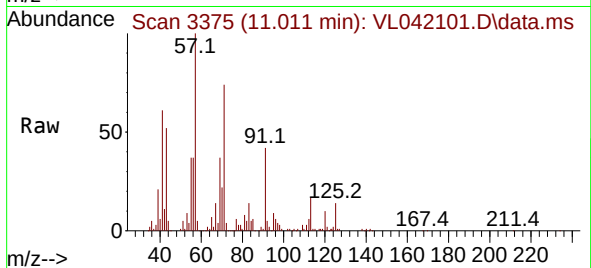
#64
n-propylbenzene
Concen: 0.240 ppbv
RT: 11.011 min Scan# 3187
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion: 120 Resp: 5108
Ion Ratio Lower Upper
120 100
91 528.3 370.6 556.0

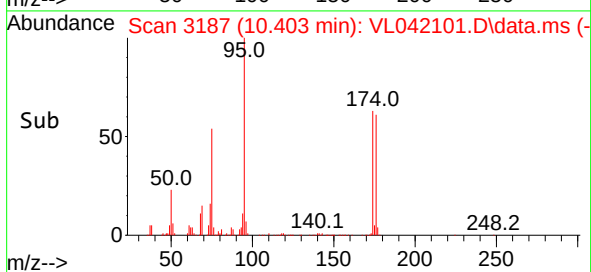
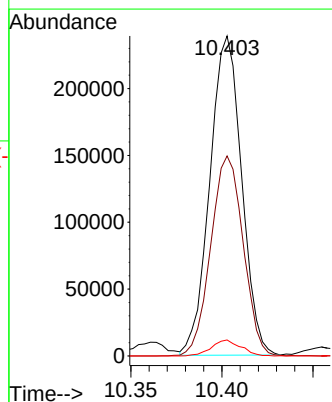
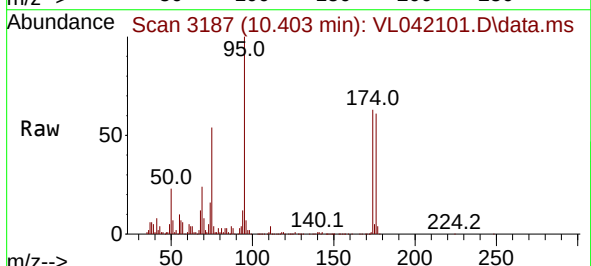
Manual Integrations
APPROVED

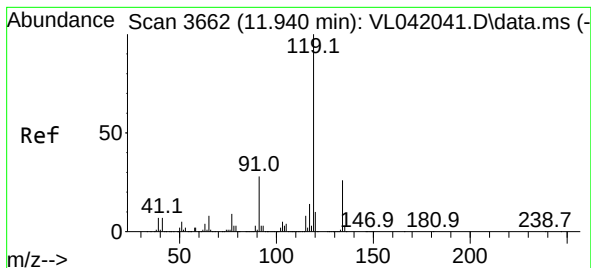
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 10.218 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.010 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Tgt Ion: 95 Resp: 289610
Ion Ratio Lower Upper
95 100
174 63.8 51.8 77.6
175 4.7 3.9 5.9





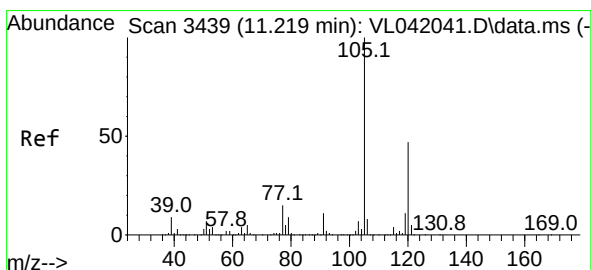
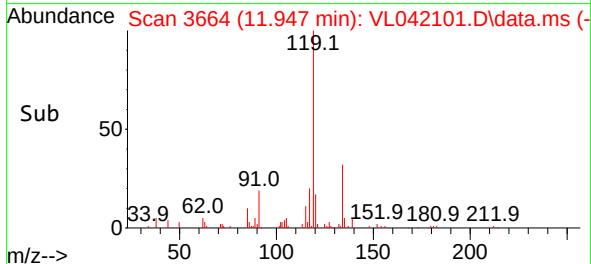
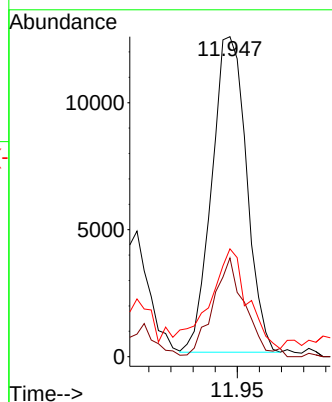
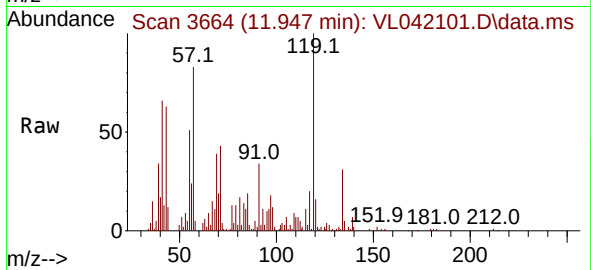
#69
p-Isopropyltoluene
Concen: 0.161 ppbv
RT: 11.947 min Scan# 30
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

Instrument :
MSVOA_L
ClientSampleId :
SV3

Tgt Ion:119 Resp: 1354
Ion Ratio Lower Upper
119 100
134 29.5 20.9 31.3
91 30.0 23.1 34.7

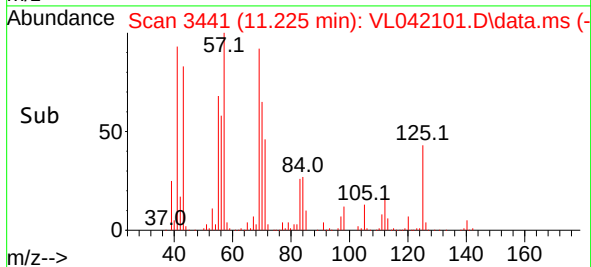
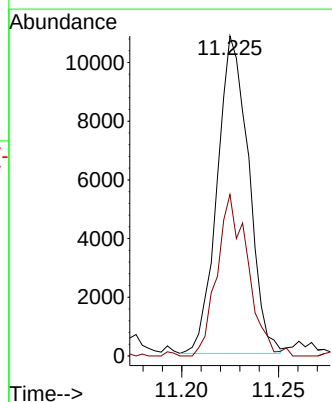
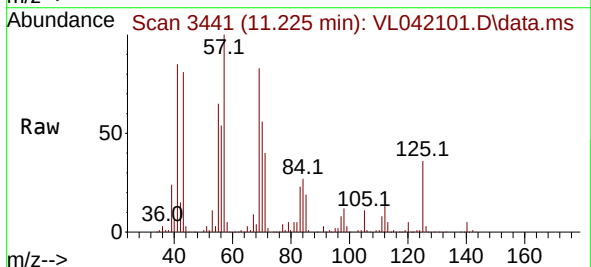
Manual Integrations
APPROVED

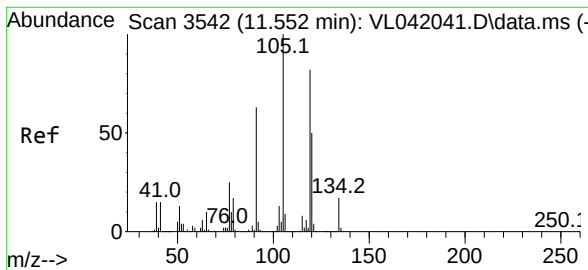
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#73
1,3,5-Trimethylbenzene
Concen: 0.212 ppbv
RT: 11.225 min Scan# 3441
Delta R.T. 0.006 min
Lab File: VL042101.D
Acq: 05 Mar 2025 13:16

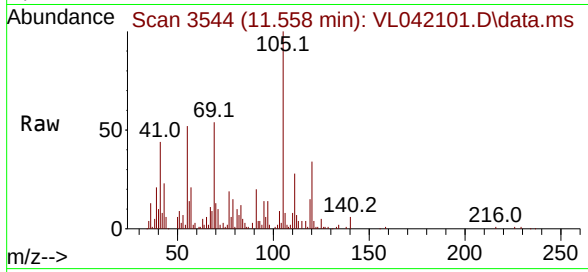
Tgt Ion:105 Resp: 12204
Ion Ratio Lower Upper
105 100
120 50.9 37.4 56.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.293 ppbv
 RT: 11.558 min Scan# 30
 Delta R.T. 0.006 min
 Lab File: VL042101.D
 Acq: 05 Mar 2025 13:16

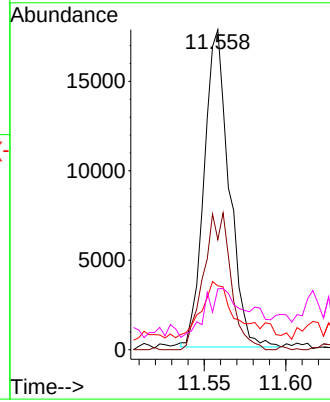
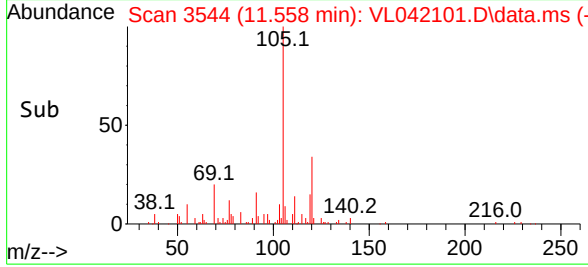
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3



Tgt Ion:	105	Resp:	18954
Ion	Ratio	Lower	Upper
105	100		
120	35.0	40.2	60.2
91	15.7	51.4	77.2
77	15.4	20.1	30.1

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	SV3DL	SDG No.:	Q1483
Lab Sample ID:	Q1483-05DL	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042106.D	1200		03/05/25 16:28	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	16.8	42.9	UD	42.9	92.0	ug/m3
75-35-4	1,1-Dichloroethene	170	674	UD	674	2380	ug/m3
156-59-2	cis-1,2-Dichloroethene	110	436	UD	436	2380	ug/m3
71-55-6	1,1,1-Trichloroethane	11.4	62.2	UD	62.2	196	ug/m3
79-01-6	Trichloroethene	650	3490	D	110	193	ug/m3
127-18-4	Tetrachloroethene	29000	197000	ED	122	244	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.807			
540-36-3	1,4-Difluorobenzene	359000		3.991			
3114-55-4	Chlorobenzene-d5	299000		8.914			

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\VL030525\
 Data File : VL042106.D
 Acq On : 05 Mar 2025 16:28
 Operator : SY/MD
 Sample : Q1483-05DL 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:09:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.807	49	159641	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.991	114	358572	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.914	117	298512	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	220196	9.588	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.900%
Target Compounds						
						Qvalue
38) Trichloroethene	4.590	130	8242m	0.538	ppbv	
52) Tetrachloroethene	8.257	164	311077	24.208	ppbv	98

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

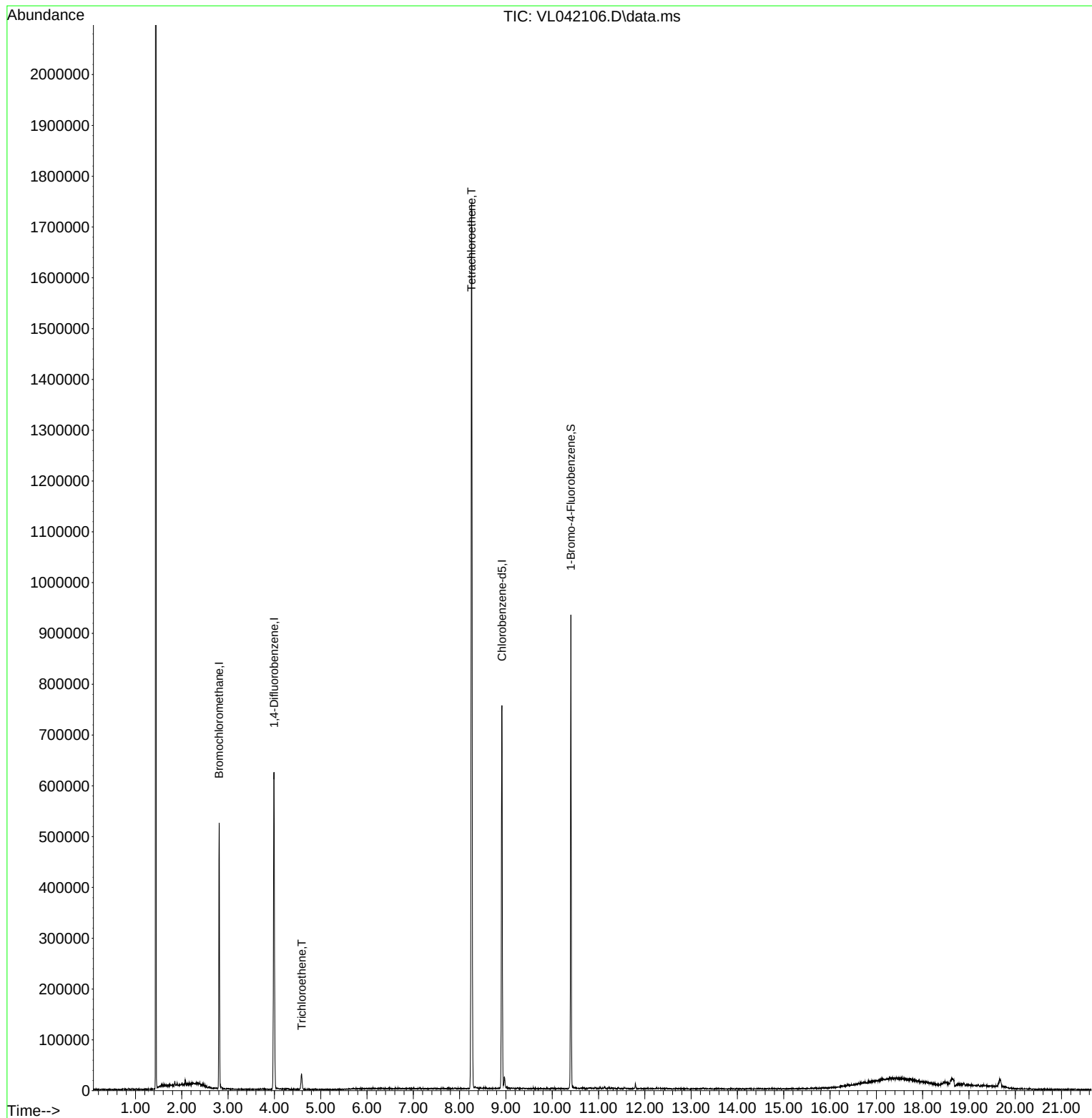
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Data File : VL042106.D
Acq On : 05 Mar 2025 16:28
Operator : SY/MD
Sample : Q1483-05DL 1200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

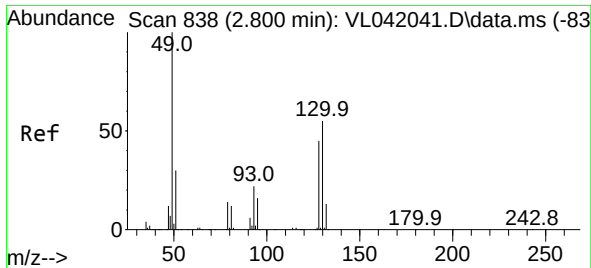
Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

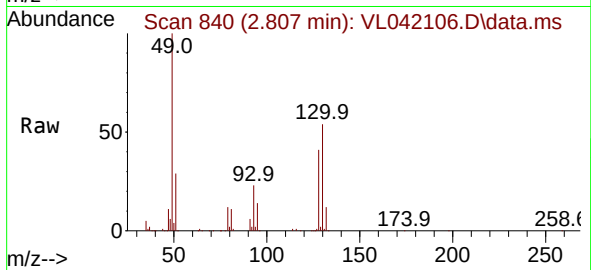
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration





#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.807 min Scan# 84
Delta R.T. 0.007 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

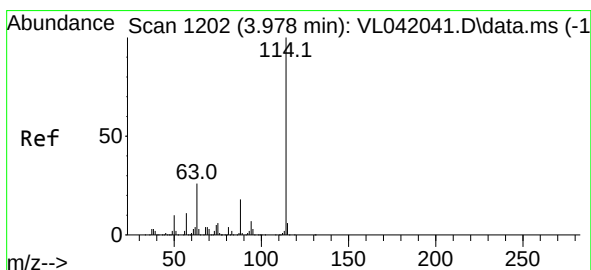
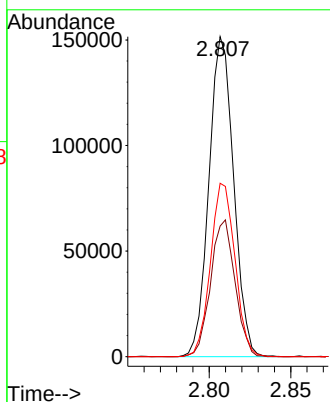
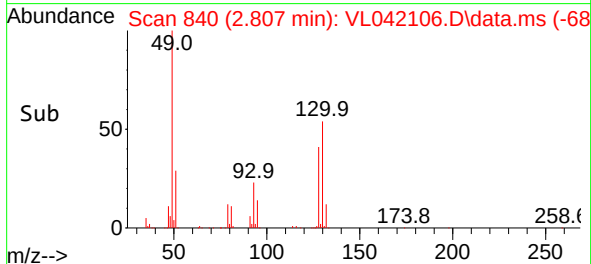
Instrument :
MSVOA_L
ClientSampleId :
SV3DL



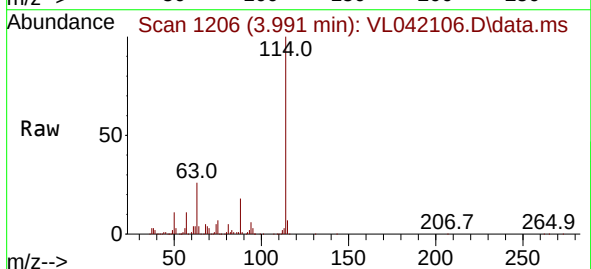
Tgt Ion: 49 Resp: 15964
Ion Ratio Lower Upper
49 100
128 42.3 21.6 64.8
130 53.7 27.8 83.4

Manual Integrations
APPROVED

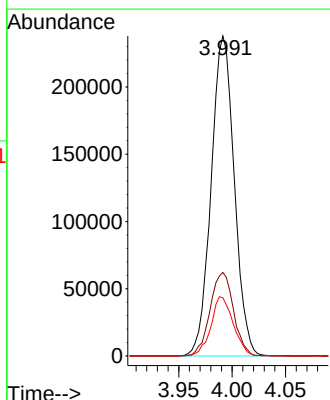
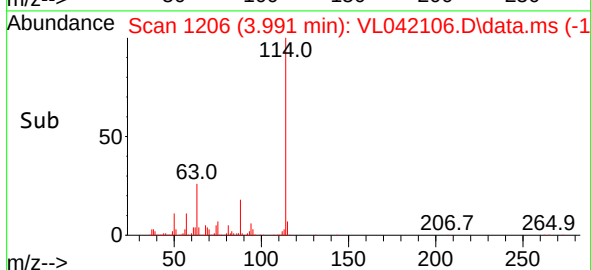
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

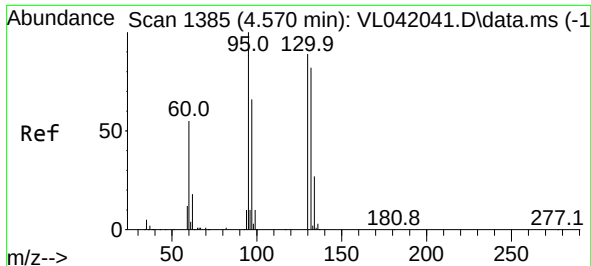


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.991 min Scan# 1206
Delta R.T. 0.013 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28



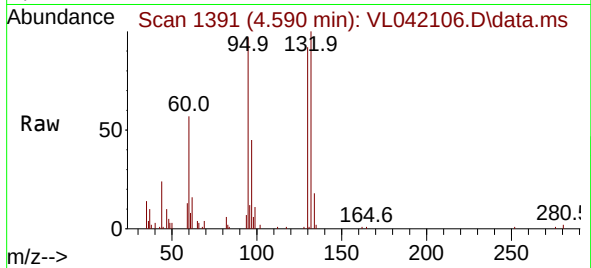
Tgt Ion:114 Resp: 358572
Ion Ratio Lower Upper
114 100
63 26.5 20.1 30.1
88 17.9 14.3 21.5





#38
 Trichloroethene
 Concen: 0.538 ppbv m
 RT: 4.590 min Scan# 1391
 Delta R.T. 0.020 min
 Lab File: VL042106.D
 Acq: 05 Mar 2025 16:28

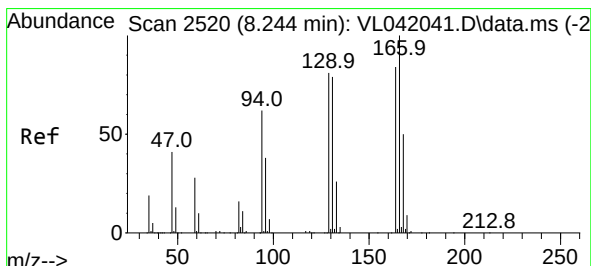
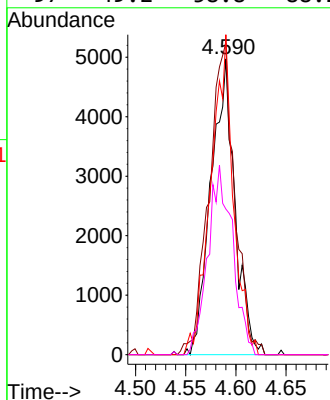
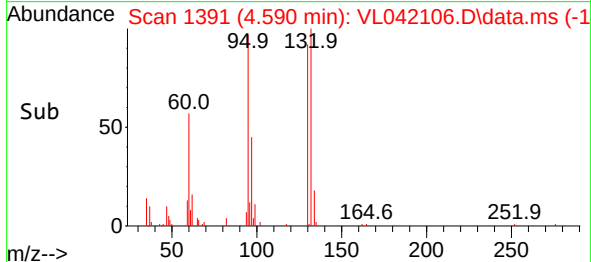
Instrument :
 MSVOA_L
 ClientSampleId :
 SV3DL



Tgt Ion:130 Resp: 824
 Ion Ratio Lower Upper
 130 100
 95 105.4 89.5 134.3
 132 108.1 73.8 110.6
 97 49.2 58.8 88.2#

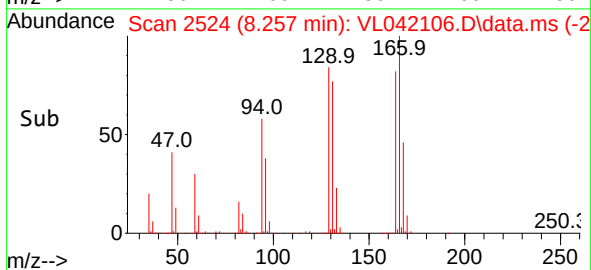
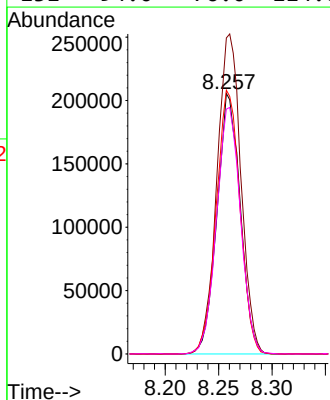
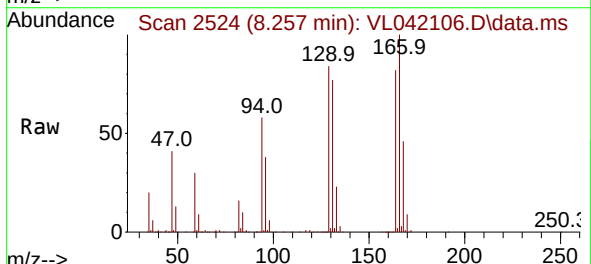
Manual Integrations
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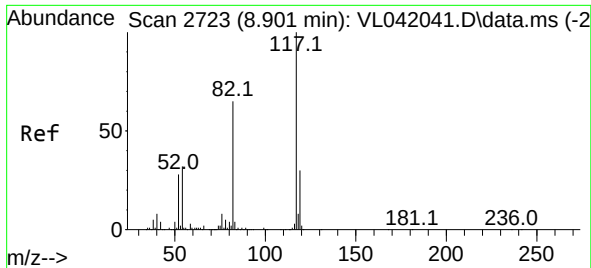
Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025



#52
 Tetrachloroethene
 Concen: 24.208 ppbv
 RT: 8.257 min Scan# 2524
 Delta R.T. 0.013 min
 Lab File: VL042106.D
 Acq: 05 Mar 2025 16:28

Tgt Ion:164 Resp: 311077
 Ion Ratio Lower Upper
 164 100
 166 121.3 95.7 143.5
 129 101.3 77.1 115.7
 131 94.0 76.0 114.0





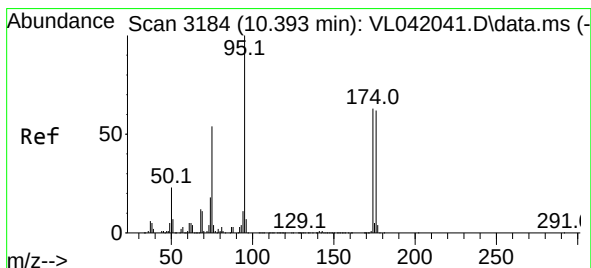
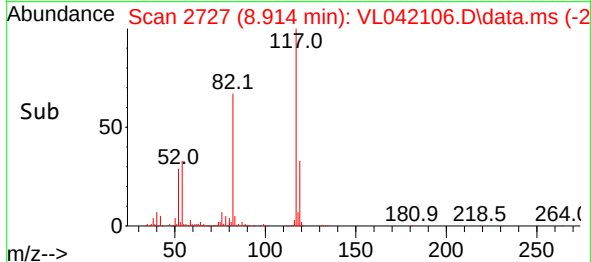
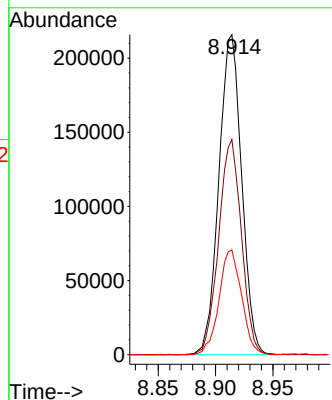
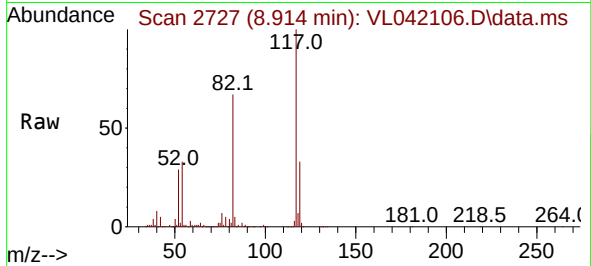
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Instrument :
MSVOA_L
ClientSampleId :
SV3DL

Tgt Ion: 117 Resp: 298512
Ion Ratio Lower Upper
117 100
82 67.0 55.0 82.6
119 32.6 25.9 38.9

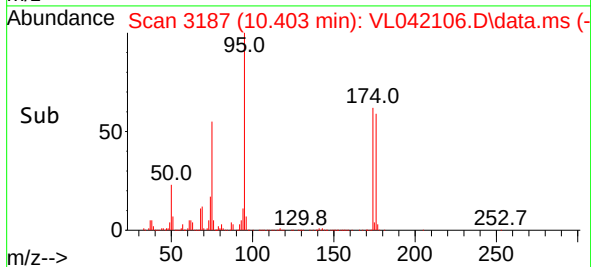
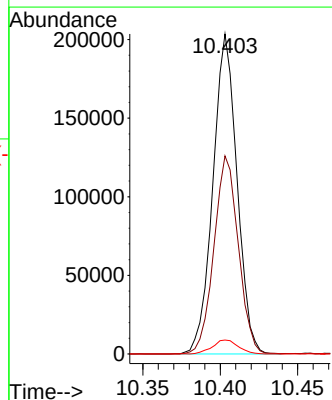
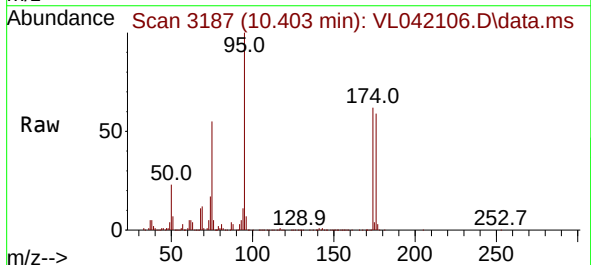
Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#68
1-Bromo-4-Fluorobenzene
Concen: 9.588 ppbv
RT: 10.403 min Scan# 3187
Delta R.T. 0.010 min
Lab File: VL042106.D
Acq: 05 Mar 2025 16:28

Tgt Ion: 95 Resp: 220196
Ion Ratio Lower Upper
95 100
174 62.7 51.8 77.6
175 4.7 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	03/03/25
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	03/04/25
Client Sample ID:	SV4	SDG No.:	Q1483
Lab Sample ID:	Q1483-06	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400 Units: mL		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042108.D	1200		03/05/25 17:31	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	16.8	42.9	U	42.9	92.0	ug/m3
75-35-4	1,1-Dichloroethene	170	674	U	674	2380	ug/m3
156-59-2	cis-1,2-Dichloroethene	1200	4760		436	2380	ug/m3
71-55-6	1,1,1-Trichloroethane	11.4	62.2	U	62.2	196	ug/m3
79-01-6	Trichloroethene	2400	12900		110	193	ug/m3
127-18-4	Tetrachloroethene	159000	1080000	E	122	244	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.10			65 - 135	91%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	157000		2.81			
540-36-3	1,4-Difluorobenzene	351000		3.991			
3114-55-4	Chlorobenzene-d5	295000		8.914			

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\VL030525\
 Data File : VL042108.D
 Acq On : 05 Mar 2025 17:31
 Operator : SY/MD
 Sample : Q1483-06 1200X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:10:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.810	49	157233	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.991	114	350842	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.914	117	294774	10.000	ppbv	0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.403	95	207279	9.140	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.400%
Target Compounds						
19) Isopropyl Alcohol	1.900	45	4948	0.620	ppbv	# 40
22) trans-1,2-Dichloroethene	2.356	96	819m	0.119	ppbv	
31) cis-1,2-Dichloroethene	2.742	61	20823	0.979	ppbv	99
38) Trichloroethene	4.583	130	30337m	2.023	ppbv	
52) Tetrachloroethene	8.267	164	1666581	132.549	ppbv	97

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

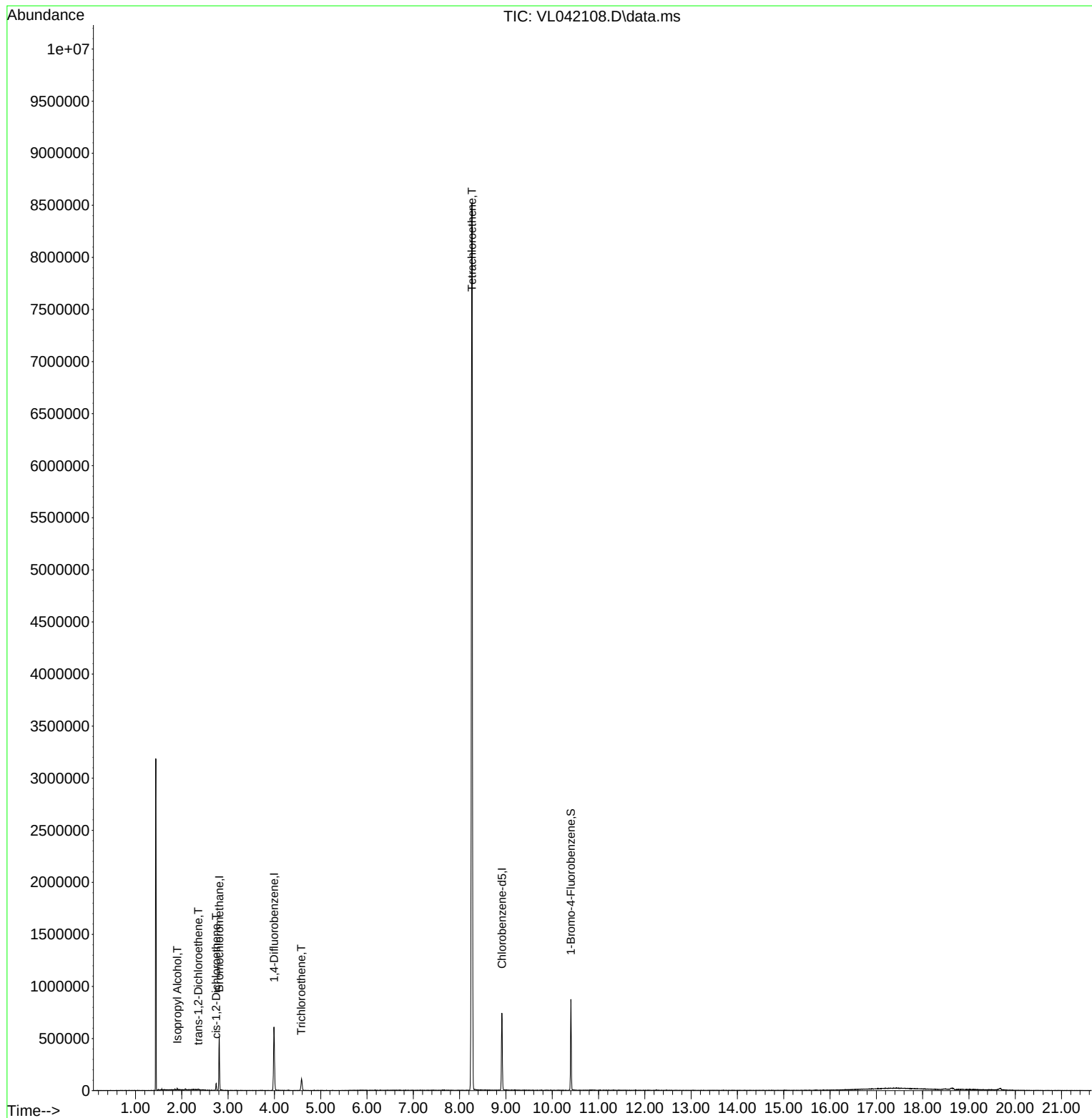
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Data File : VL042108.D
Acq On : 05 Mar 2025 17:31
Operator : SY/MD
Sample : Q1483-06 1200X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

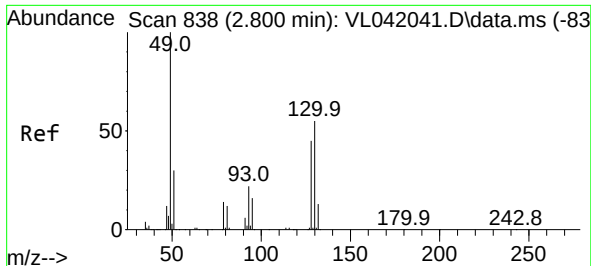
Instrument :
MSVOA_L
ClientSampleId :
SV4

Quant Time: Mar 06 01:10:27 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 03/06/2025
Supervised By : Mahesh Dadoda 03/06/2025





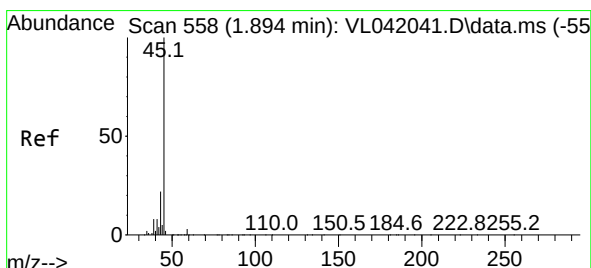
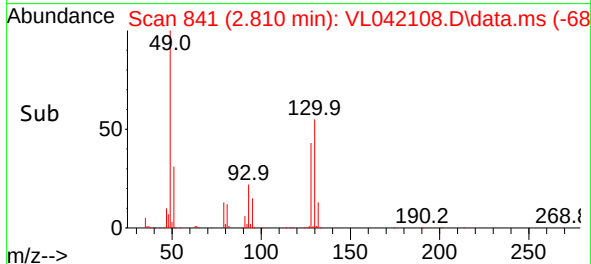
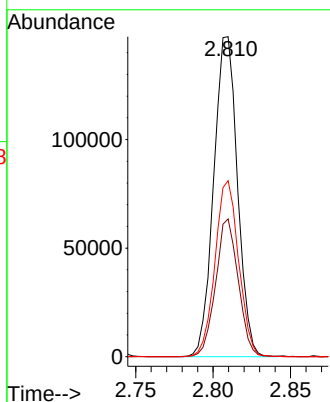
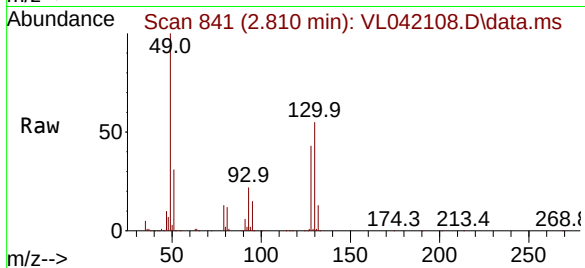
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.810 min Scan# 841
Delta R.T. 0.010 min
Lab File: VL042108.D
Acq: 05 Mar 2025 17:31

Instrument :
MSVOA_L
ClientSampleId :
SV4

Tgt Ion: 49 Resp: 15723
Ion Ratio Lower Upper
49 100
128 41.0 21.6 64.8
130 54.7 27.8 83.4

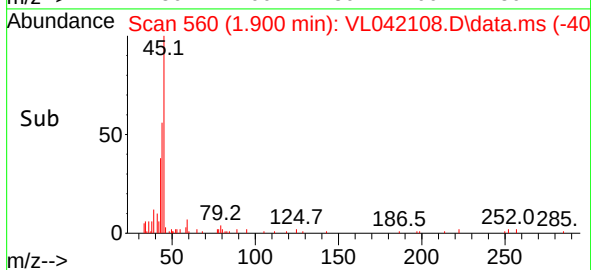
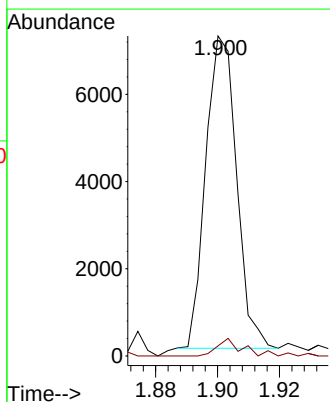
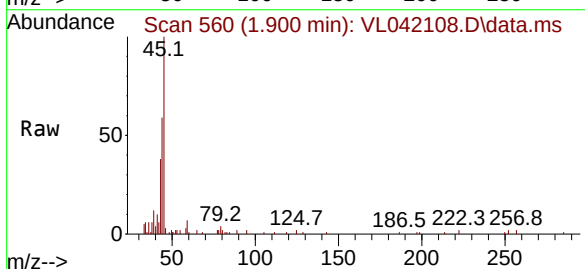
Manual Integrations
APPROVED

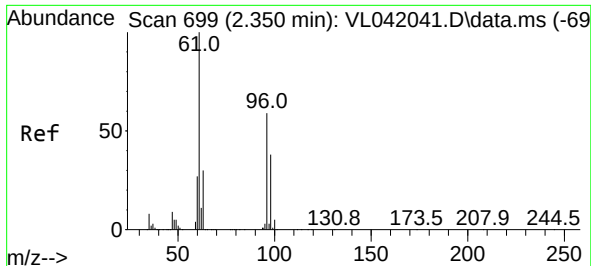
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#19
Isopropyl Alcohol
Concen: 0.620 ppbv
RT: 1.900 min Scan# 560
Delta R.T. 0.006 min
Lab File: VL042108.D
Acq: 05 Mar 2025 17:31

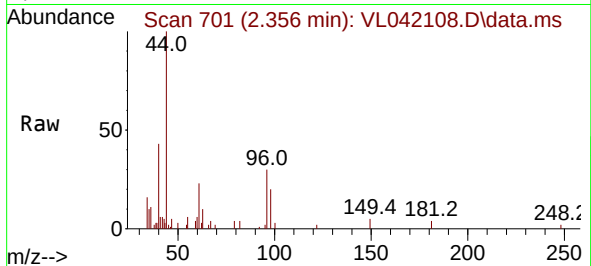
Tgt Ion: 45 Resp: 4948
Ion Ratio Lower Upper
45 100
58 5.0 35.3 52.9#





#22
trans-1,2-Dichloroethene
Concen: 0.119 ppbv m
RT: 2.356 min Scan# 701
Delta R.T. 0.006 min
Lab File: VL042108.D
Acq: 05 Mar 2025 17:31

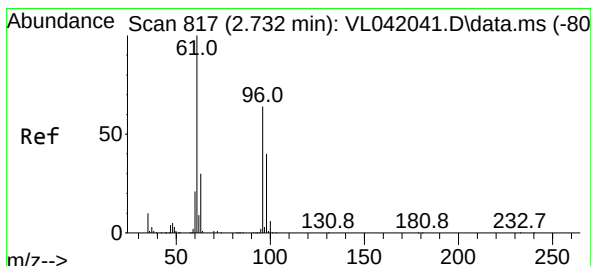
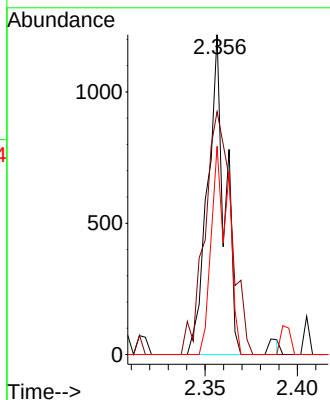
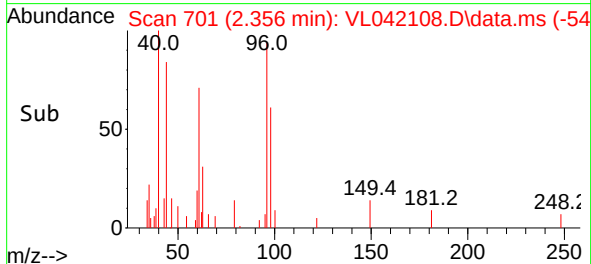
Instrument :
MSVOA_L
ClientSampleId :
SV4



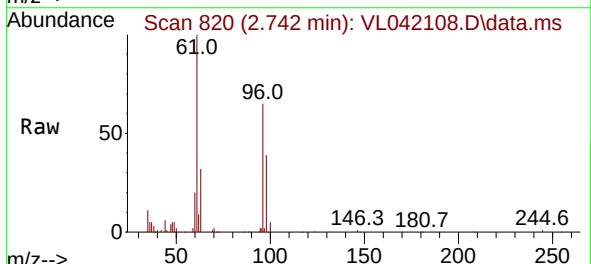
Tgt Ion: 96 Resp: 819
Ion Ratio Lower Upper
96 100
61 75.9 136.6 205.0
98 65.1 51.8 77.6

Manual Integrations
APPROVED

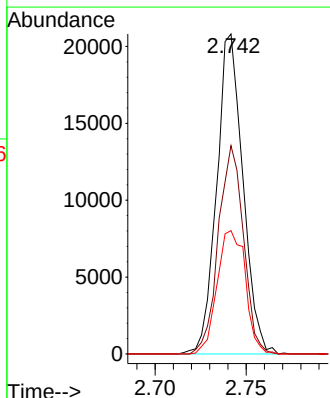
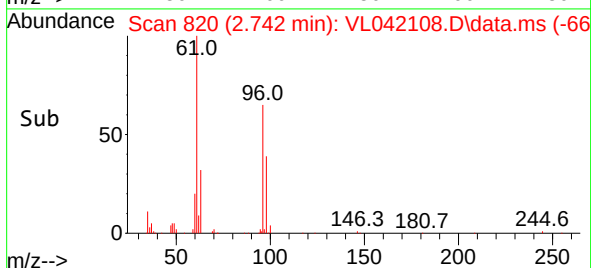
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025

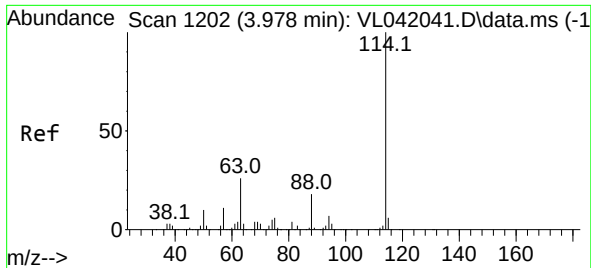


#31
cis-1,2-Dichloroethene
Concen: 0.979 ppbv
RT: 2.742 min Scan# 820
Delta R.T. 0.010 min
Lab File: VL042108.D
Acq: 05 Mar 2025 17:31



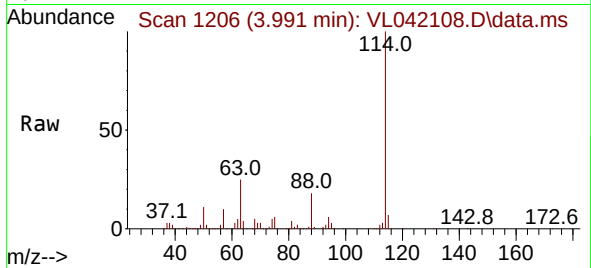
Tgt Ion: 61 Resp: 20823
Ion Ratio Lower Upper
61 100
96 65.1 51.5 77.3
98 38.6 32.0 48.0





#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 3.991 min Scan# 114
 Delta R.T. 0.013 min
 Lab File: VL042108.D
 Acq: 05 Mar 2025 17:31

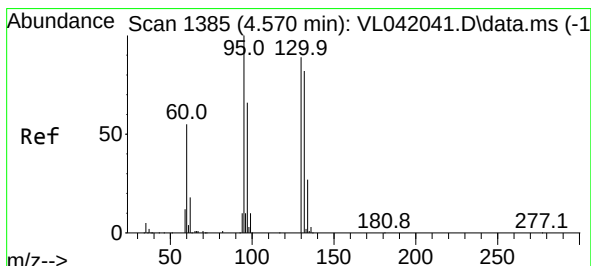
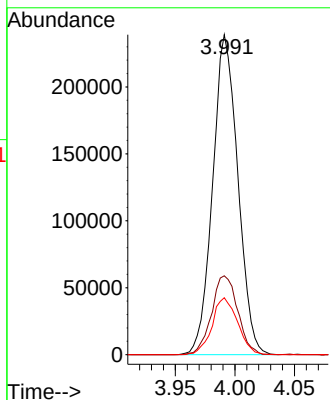
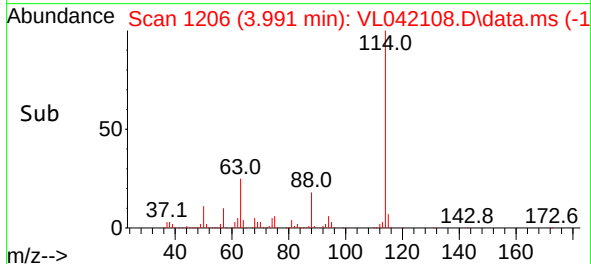
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4



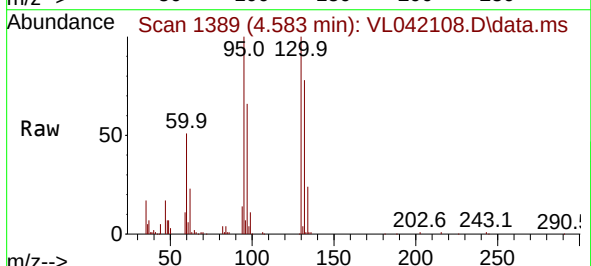
Tgt Ion:114 Resp: 35084
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.1 30.1
 88 18.1 14.3 21.5

Manual Integrations
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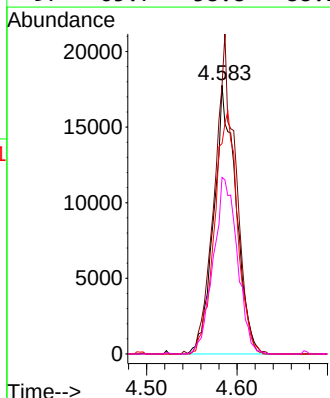
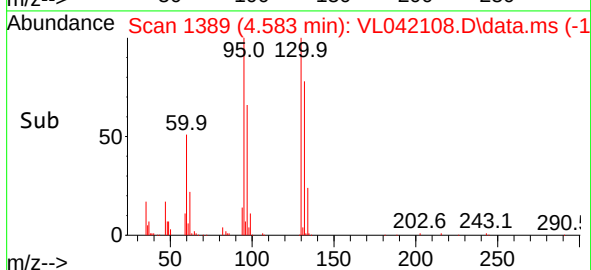
Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

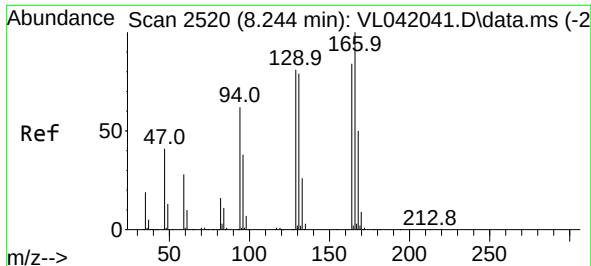


#38
 Trichloroethene
 Concen: 2.023 ppbv m
 RT: 4.583 min Scan# 1389
 Delta R.T. 0.013 min
 Lab File: VL042108.D
 Acq: 05 Mar 2025 17:31



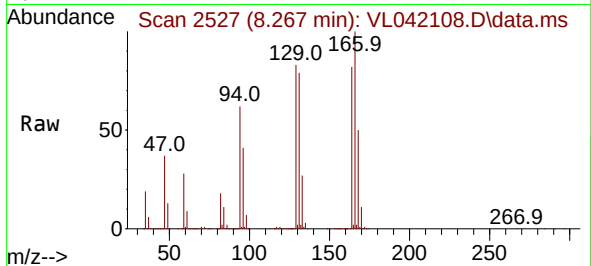
Tgt Ion:130 Resp: 30337
 Ion Ratio Lower Upper
 130 100
 95 99.7 89.5 134.3
 132 78.3 73.8 110.6
 97 65.7 58.8 88.2





#52
Tetrachloroethene
Concen: 132.549 ppbv
RT: 8.267 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL042108.D
Acq: 05 Mar 2025 17:31

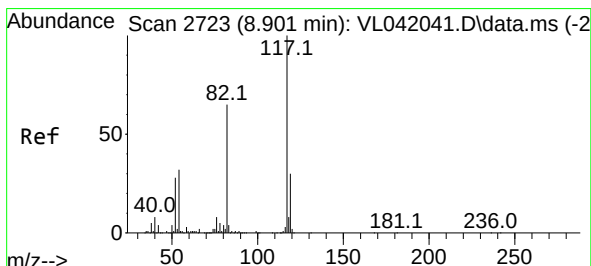
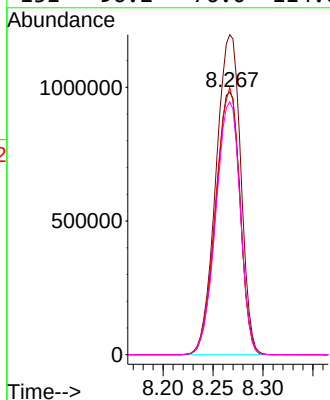
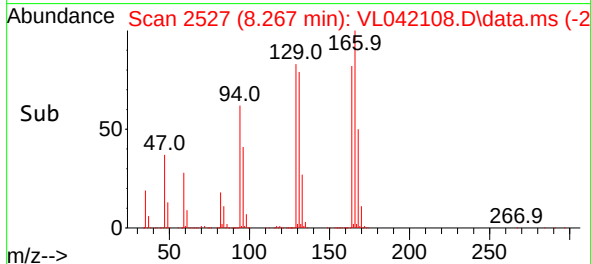
Instrument :
MSVOA_L
ClientSampleId :
SV4



Tgt Ion:164 Resp: 166658
Ion Ratio Lower Upper
164 100
166 121.8 95.7 143.5
129 101.7 77.1 115.7
131 96.2 76.0 114.0

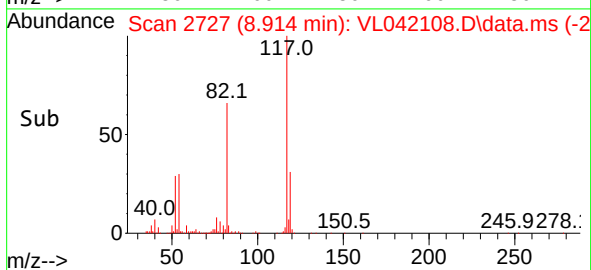
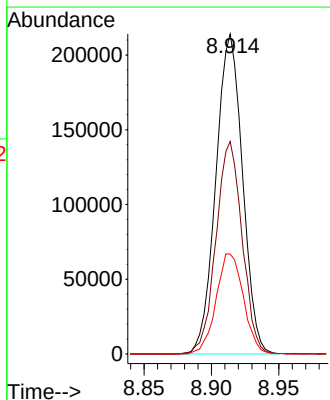
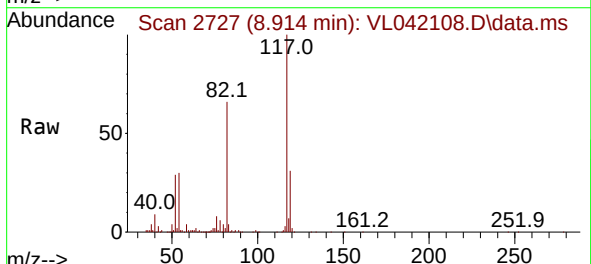
Manual Integrations
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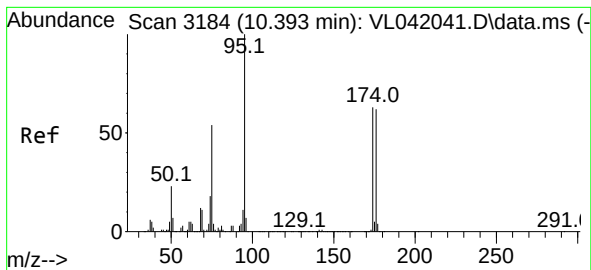
Reviewed By :Semsettin Yesilyurt 03/06/2025
Supervised By :Mahesh Dadoda 03/06/2025



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.914 min Scan# 2727
Delta R.T. 0.013 min
Lab File: VL042108.D
Acq: 05 Mar 2025 17:31

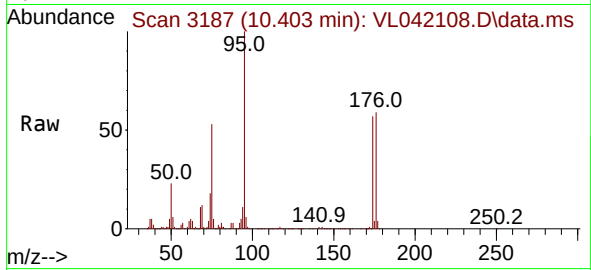
Tgt Ion:117 Resp: 294774
Ion Ratio Lower Upper
117 100
82 65.0 55.0 82.6
119 32.1 25.9 38.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.140 ppbv
 RT: 10.403 min Scan# 3184
 Delta R.T. 0.010 min
 Lab File: VL042108.D
 Acq: 05 Mar 2025 17:31

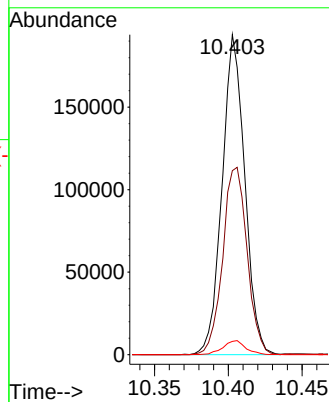
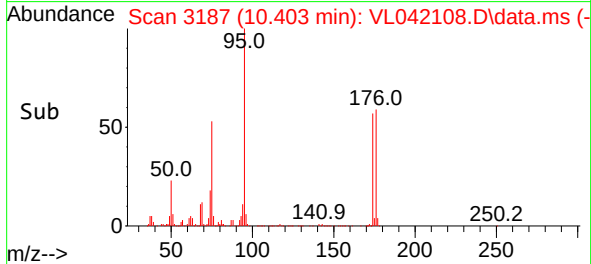
Instrument :
 MSVOA_L
 ClientSampleId :
 SV4



Tgt Ion: 95 Resp: 207279
 Ion Ratio Lower Upper
 95 100
 174 63.5 51.8 77.6
 175 4.4 3.9 5.9

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025





CALIBRATION SUMMARY

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01
 Lab Code: CHEM Case No.: Q1483 SAS No.: Q1483 SDG No.: Q1483
 Instrument ID: MSVOA_L Calibration Date(s): 02/25/2025 02/25/2025
 Heated Purge: (Y/N) N Calibration Time(s): 08:56 12:07
 GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID:		RRF010 = VL042041.D		RRF002 = VL042042.D		RRF001 = VL042043.D		
		RRF0.5 = VL042044.D		RRF0.1 = VL042045.D		RRF.03 = VL042046.D		
COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF	% RSD
Vinyl Chloride	0.337	0.361	0.346	0.376	0.336	0.447	0.364	10.9
1,1-Dichloroethene	0.320	0.386	0.437	0.398			0.376	12.6
cis-1,2-Dichloroethene	1.237	1.450	1.401	1.421			1.353	7.3
1,1,1-Trichloroethane	1.771	1.944	1.916	1.883	1.875	1.921	1.866	4.1
Trichloroethene	0.378	0.447	0.447	0.433	0.462	0.447	0.427	8.1
Tetrachloroethene	0.327	0.385	0.383	0.380	0.374	0.322	0.358	7.9
1-Bromo-4-Fluorobenzene	0.764	0.765	0.777	0.768	0.760	0.773	0.769	0.9

* 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 : VL022525AIR.M

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

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD

1) I Bromochloromethane	-----ISTD-----								
2) T Dichlorodifluo...			1.109	1.084	1.091	0.943	0.973	1.040	7.31
3) Chlorodifluoro...			1.493	1.566	1.535	1.311	1.362	1.453	7.67
4) Chloromethane			0.438	0.398	0.399	0.344	0.344	0.385	10.53
5) T Vinyl Chloride	0.447	0.336	0.376	0.346	0.361	0.337	0.343	0.364	10.89
6) T Bromomethane			0.170	0.184	0.186	0.160	0.165	0.173	6.63
7) Chloroethane			0.151	0.158	0.156	0.135	0.140	0.148	6.83
8) T Dichlorotetra...			0.892	0.910	0.901	0.779	0.791	0.855	7.47
9) T Propene			0.614	0.630	0.636	0.522	0.558	0.592	8.47
10) T Heptane			1.971	1.946	1.960	1.662	1.679	1.844	8.59
11) T Trichlorofluor...			1.056	1.122	1.119	0.944	0.968	1.042	7.98
12) T 1,1,2-Trichlor...			0.919	0.902	0.865	0.697	0.773	0.831	11.28
13) Ethanol			0.053	0.057	0.040	0.020	0.018	0.038#	48.50
14) T Bromoethene			0.325	0.304	0.299	0.264	0.275	0.293	8.41
15) T Acetone			1.084	0.960	0.933	0.714	0.723	0.883	18.17
16) T 1,3-Butadiene			0.476	0.435	0.418	0.358	0.367	0.411	11.96
17) tert-Butyl alc...			1.184	1.185	1.201	0.950	1.004	1.105	10.71
18) T 1,1-Dichloroet...			0.398	0.437	0.386	0.320	0.338	0.376	12.57
19) T Isopropyl Alcohol			0.561	0.571	0.557	0.419	0.429	0.507	15.06
20) T Methylene Chlo...			0.429	0.374	0.329	0.261	0.278	0.334	20.72
21) T Allyl Chloride			0.707	0.717	0.639	0.538	0.590	0.638	11.94
22) T trans-1,2-Dich...			0.481	0.506	0.450	0.358	0.395	0.438	13.90
23) T Vinyl Acetate			0.689	0.614	0.695	0.520	0.586	0.621	11.82
24) T 1,1-Dichloroet...			0.927	0.856	0.863	0.669	0.758	0.815	12.42
25) T Ethyl Acetate			3.833	3.674	3.776	3.174	3.217	3.535	8.91
26) T Hexane			1.596	1.462	1.519	1.282	1.287	1.429	9.83
27) T Carbon Disulfide			1.042	0.972	1.032	0.856	0.942	0.969	7.78
28) T Methyl tert-Bu...			0.650	0.844	0.838	0.522	0.705	0.711	19.02
29) T Chloroform			2.165	2.044	1.971	1.722	1.716	1.923	10.36
30) T Cyclohexane			1.154	1.239	1.255	1.076	1.076	1.160	7.39
31) T cis-1,2-Dichlo...			1.421	1.401	1.450	1.237	1.255	1.353	7.33
32) T 1,1,1-Trichlor...	1.921	1.875	1.883	1.916	1.944	1.771	1.751	1.866	4.05

33) I 1,4-Difluorobenzene	-----ISTD-----								
34) T 2-Butanone			0.833	0.799	0.812	0.692	0.759	0.779	7.15
35) T Carbon Tetrach...	0.664	0.705	0.675	0.723	0.725	0.655	0.681	0.690	4.09
36) T Benzene			1.079	1.084	1.104	0.969	0.999	1.047	5.66
37) T 1,2-Dichloroet...			0.624	0.604	0.598	0.520	0.556	0.580	7.20
38) T Trichloroethene	0.447	0.462	0.433	0.447	0.447	0.378	0.379	0.427	8.06
39) T 1,2-Dichloropr...			0.421	0.415	0.414	0.357	0.379	0.397	7.02

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\ Method File : VL022525AIR.M											
40)	T	1,4-Dioxane			0.192	0.196	0.181	0.164	0.173	0.181	7.31
41)	T	Tetrahydrofuran			0.469	0.492	0.473	0.418	0.450	0.460	6.04
42)	T	Bromodichlorom...			0.806	0.791	0.810	0.739	0.765	0.782	3.81
43)		Methyl Methacr...			0.400	0.418	0.426	0.392	0.409	0.409	3.35
44)	T	2,2,4-Trimethy...			1.928	1.935	1.955	1.670	1.750	1.848	6.99
45)	T	t-1,3-Dichloro...			0.414	0.392	0.418	0.393	0.414	0.406	3.12
46)	T	cis-1,3-Dichlo...			0.514	0.523	0.548	0.516	0.526	0.526	2.59
47)	T	1,1,2-Trichlor...			0.426	0.429	0.426	0.361	0.375	0.403	8.12
48)	T	Dibromochlorom...			0.618	0.667	0.667	0.594	0.613	0.632	5.25
49)	T	Bromoform			0.553	0.551	0.588	0.525	0.526	0.549	4.68
50)	T	4-Methyl-2-Pen...			0.996	0.974	0.975	1.014	1.079	1.008	4.27
51)	T	2-Hexanone			0.577	0.570	0.608	0.834	0.879	0.693	21.69
52)	T	Tetrachloroethene	0.322	0.374	0.380	0.383	0.385	0.327	0.337	0.358	7.88
53)	T	Toluene			1.150	1.210	1.284	1.088	1.118	1.170	6.67
54)	T	1,2-Dibromoethane		0.563	0.556	0.553	0.586	0.500	0.514	0.545	5.87
-----ISTD-----											
55)	I	Chlorobenzene-d5									
56)		1,1,1,2-Tetrac...			0.607	0.596	0.595	0.505	0.524	0.565	8.37
57)	T	Chlorobenzene			1.102	1.113	1.121	0.910	0.938	1.037	10.02
58)	T	Ethyl Benzene			1.886	1.906	1.974	1.694	1.749	1.842	6.31
59)	T	m/p-Xylene			1.488	1.550	1.580	1.330	1.380	1.466	7.35
60)	T	o-Xylene			1.572	1.550	1.577	1.317	1.351	1.473	8.68
61)	T	Styrene			0.659	0.719	0.738	0.658	0.690	0.693	5.18
62)		Isopropylbenzene			2.299	2.339	2.399	1.969	2.026	2.207	8.84
63)	T	1,1,2,2-Tetrac...	0.999	0.975	1.026	1.041	1.031	0.848	0.872	0.970	8.13
64)		n-propylbenzene			0.596	0.607	0.632	0.524	0.535	0.579	8.11
65)		tert-Butylbenzene			2.080	2.251	2.222	1.733	1.753	2.008	12.47
66)	T	Benzyl Chloride			0.141	0.159	0.163	0.153	0.150	0.153	5.40
67)		sec-Butylbenzene			2.973	3.229	3.182	2.482	2.494	2.872	12.65
68)	S	1-Bromo-4-Fluo...	0.773	0.760	0.768	0.777	0.765	0.764	0.779	0.769	0.92
69)		p-Isopropyltol...			2.240	2.533	2.575	2.021	2.056	2.285	11.38
70)		n-Butylbenzene			2.332	2.567	2.572	2.070	2.120	2.332	10.20
71)		2-Chlorotoluene			1.758	1.829	1.853	1.514	1.551	1.701	9.30
72)	T	4-Ethyltoluene			1.775	1.944	1.985	1.621	1.670	1.799	8.99
73)	T	1,3,5-Trimethy...			1.592	1.732	1.696	1.381	1.400	1.560	10.47
74)	T	1,2,4-Trimethy...			1.855	1.982	1.990	1.471	1.488	1.757	14.76
75)	T	1,3-Dichlorobe...			1.112	1.110	1.083	0.869	0.882	1.011	12.30
76)	T	1,4-Dichlorobe...			1.120	1.061	1.092	0.861	0.886	1.004	12.07
77)	T	1,2-Dichlorobe...			1.059	1.097	1.063	0.836	0.852	0.981	12.88
78)	T	Hexachloro-1,3...			0.840	0.832	0.844	0.637	0.666	0.764	13.53
79)	T	Naphthalene		0.841	0.978	1.237	1.352	1.371	1.450	1.205	20.15
80)	T	Naphthalene,2- ...			0.090	0.142	0.240	0.562	0.615	0.330	73.74
81)	T	1,2,4-Trichlor...			0.589	0.687	0.765	0.644	0.673	0.671	9.58

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161135	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	422655	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	374249	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 285943 9.263 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 92.600%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	152005	5.480	ppbv	99
3) Chlorodifluoromethane	1.479	51	211185	6.887	ppbv	96
4) Chloromethane	1.538	50	55364	5.136	ppbv	98
5) Vinyl Chloride	1.586	62	54228	4.207	ppbv	98
6) Bromomethane	1.674	94	25846	5.173	ppbv	90
7) Chloroethane	1.709	64	21717	5.169	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	125595	5.147	ppbv	94
9) Propene	1.489	41	84038	6.357	ppbv	97
10) Heptane	5.007	43	267860	7.296	ppbv	97
11) Trichlorofluoromethane	1.884	101	152112	5.449	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.146	101	112374	5.162	ppbv	93
13) Ethanol	1.729	45	3178	2.131	ppbv	85
14) Bromoethene	1.787	108	42461	5.223	ppbv	99
15) Acetone	1.842	43	115085	4.327	ppbv	95
16) 1,3-Butadiene	1.615	39	57707	4.574	ppbv	100
17) tert-Butyl alcohol	2.049	59	153073	4.651	ppbv	100
18) 1,1-Dichloroethene	2.043	96	51534	4.954	ppbv	95
19) Isopropyl Alcohol	1.894	45	67445	4.522	ppbv	98
20) Methylene Chloride	2.069	84	41998	4.195	ppbv	94
21) Allyl Chloride	2.104	41	86723	4.504	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	57617	5.104	ppbv	96
23) Vinyl Acetate	2.473	43	83866	5.823	ppbv	98
24) 1,1-Dichloroethane	2.418	63	107817	4.704	ppbv	100
25) Ethyl Acetate	2.852	43	511505	7.007	ppbv	99
26) Hexane	2.839	57	206577	7.052	ppbv	98
27) Carbon Disulfide	2.159	76	137978	5.008	ppbv	97
28) Methyl tert-Butyl Ether	2.450	73	84091	4.696	ppbv	98
29) Chloroform	2.862	83	277411	6.538	ppbv	96
30) Cyclohexane	3.875	84	173351	7.295	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	199354	6.886	ppbv	98
32) 1,1,1-Trichloroethane	3.383	97	285335	6.064	ppbv	98
34) 2-Butanone	2.570	43	292449	8.043	ppbv	100
35) Carbon Tetrachloride	3.781	117	276677	6.741	ppbv	97
36) Benzene	3.674	78	409501	7.999	ppbv	98
37) 1,2-Dichloroethane	3.234	62	219829	7.543	ppbv	100
38) Trichloroethene	4.570	130	159933	7.689	ppbv	93
39) 1,2-Dichloropropane	4.337	63	151036	8.047	ppbv	99
40) 1,4-Dioxane	4.609	88	69399	7.105	ppbv #	76
41) Tetrahydrofuran	3.072	42	176830	8.509	ppbv	95
42) Bromodichloromethane	4.512	83	312250	7.908	ppbv	97
43) Methyl Methacrylate	4.907	69	165494	7.091	ppbv	97
44) 2,2,4-Trimethylpentane	4.661	57	705920	8.122	ppbv	97
45) t-1,3-Dichloropropene	6.444	75	166207	7.544	ppbv	91

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042041.D
 Acq On : 25 Feb 2025 08:56
 Operator : SY/MD
 Sample : VSTDICCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	218294	7.809	ppbv	99
47) 1,1,2-Trichloroethane	6.610	97	152556	7.723	ppbv	97
48) Dibromochloromethane	7.412	129	251213	7.593	ppbv	99
49) Bromoform	9.503	173	222057	8.183	ppbv	98
50) 4-Methyl-2-Pentanone	5.787	43	428434	7.666	ppbv	100
51) 2-Hexanone	7.464	43	352331	7.709	ppbv #	96
52) Tetrachloroethene	8.244	164	138263	7.743	ppbv	94
53) Toluene	6.959	91	460041	7.541	ppbv	97
54) 1,2-Dibromoethane	7.678	107	211395	7.772	ppbv	98
56) 1,1,1,2-Tetrachloroethane	8.943	131	188811	7.049	ppbv	97
57) Chlorobenzene	8.940	112	340525	7.735	ppbv	97
58) Ethyl Benzene	9.374	91	633939	7.739	ppbv	98
59) m/p-Xylene	9.552	91	995259m	15.427	ppbv	
60) o-Xylene	9.982	91	493069	7.557	ppbv	97
61) Styrene	9.888	104	246161	7.912	ppbv	98
62) Isopropylbenzene	10.555	105	736884	7.522	ppbv	98
63) 1,1,2,2-Tetrachloroethane	9.979	83	317313	7.538	ppbv	100
64) n-propylbenzene	11.005	120	196044	8.145	ppbv	90
65) tert-Butylbenzene	11.545	119	648698	7.596	ppbv	97
66) Benzyl Chloride	11.630	91	57345	6.699	ppbv #	97
67) sec-Butylbenzene	11.782	105	928863	7.744	ppbv	99
69) p-Isopropyltoluene	11.940	119	756264	7.702	ppbv	98
70) n-Butylbenzene	12.296	91	774646	8.009	ppbv	99
71) 2-Chlorotoluene	10.918	91	566619	7.681	ppbv	97
72) 4-Ethyltoluene	11.141	105	606538	7.934	ppbv	98
73) 1,3,5-Trimethylbenzene	11.219	105	516875	7.838	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	550412	7.777	ppbv	98
75) 1,3-Dichlorobenzene	11.623	146	325160	8.535	ppbv	97
76) 1,4-Dichlorobenzene	11.685	146	322404	8.678	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	312942	8.593	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	238217	7.907	ppbv	100
79) Naphthalene	13.526	128	513192	7.372	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	210405	6.676	ppbv	95
81) 1,2,4-Trichlorobenzene	13.455	180	241031	8.517	ppbv	99

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

Manual Integrations

Quant Time: Feb 25 10:10:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Tue Feb 18 00:13:37 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 Operator : SY/MD
 Sample : VSTDICC002
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 18 00:13:37 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	160999	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	427051	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	377910	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	289049	9.273	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.700%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	35122	1.267	ppbv	95
3) Chlorodifluoromethane	1.483	51	49423	1.613	ppbv	94
4) Chloromethane	1.538	50	12833	1.192	ppbv #	87
5) Vinyl Chloride	1.586	62	11611	0.902	ppbv	97
6) Bromomethane	1.674	94	5996	1.201	ppbv	97
7) Chloroethane	1.712	64	5014	1.195	ppbv	90
8) Dichlorotetrafluoroethane	1.560	85	29028	1.191	ppbv	99
9) Propene	1.489	41	20484	1.551	ppbv	95
10) Heptane	5.004	43	63098	1.720	ppbv	94
11) Trichlorofluoromethane	1.884	101	36041	1.292	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	27846	1.280	ppbv	90
13) Ethanol	1.729	45	1291	0.866	ppbv	91
14) Bromoethene	1.790	108	9642	1.187	ppbv	93
15) Acetone	1.842	43	30058	1.131	ppbv	100
16) 1,3-Butadiene	1.615	39	13471	1.069	ppbv	100
17) tert-Butyl alcohol	2.052	59	38684	1.176	ppbv	96
18) 1,1-Dichloroethene	2.043	96	12417	1.195	ppbv	93
19) Isopropyl Alcohol	1.894	45	17927	1.203	ppbv	96
20) Methylene Chloride	2.072	84	10587	1.058	ppbv #	80
21) Allyl Chloride	2.107	41	20564	1.069	ppbv	96
22) trans-1,2-Dichloroethene	2.350	96	14475	1.283	ppbv	81
23) Vinyl Acetate	2.473	43	22394	1.556	ppbv #	94
24) 1,1-Dichloroethane	2.421	63	27804	1.214	ppbv	99
25) Ethyl Acetate	2.852	43	121593	1.667	ppbv	100
26) Hexane	2.839	57	48912	1.671	ppbv	98
27) Carbon Disulfide	2.159	76	33222	1.207	ppbv #	57
28) Methyl tert-Butyl Ether	2.457	73	26968	1.507	ppbv	100
29) Chloroform	2.865	83	63463	1.497	ppbv	92
30) Cyclohexane	3.878	84	40420	1.702	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	46690	1.614	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	62586	1.331	ppbv	97
34) 2-Butanone	2.573	43	69370	1.888	ppbv	96
35) Carbon Tetrachloride	3.784	117	61895	1.493	ppbv	97
36) Benzene	3.677	78	94277	1.822	ppbv	98
37) 1,2-Dichloroethane	3.237	62	51050	1.734	ppbv	99
38) Trichloroethene	4.574	130	38184	1.817	ppbv	99
39) 1,2-Dichloropropane	4.341	63	35396	1.866	ppbv	95
40) 1,4-Dioxane	4.622	88	15442	1.565	ppbv #	28
41) Tetrahydrofuran	3.075	42	40365	1.922	ppbv	96
42) Bromodichloromethane	4.512	83	69154	1.733	ppbv	94
43) Methyl Methacrylate	4.910	69	36393	1.543	ppbv	94
44) 2,2,4-Trimethylpentane	4.664	57	166945	1.901	ppbv	97
45) t-1,3-Dichloropropene	6.448	75	35707	1.604	ppbv	93

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042042.D
 Acq On : 25 Feb 2025 09:29
 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 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	46835	1.658	ppbv	93
47) 1,1,2-Trichloroethane	6.613	97	36368	1.822	ppbv	93
48) Dibromochloromethane	7.412	129	56931	1.703	ppbv	99
49) Bromoform	9.503	173	50259	1.833	ppbv	99
50) 4-Methyl-2-Pentanone	5.797	43	83246	1.474	ppbv	99
51) 2-Hexanone	7.470	43	51926	1.124	ppbv #	94
52) Tetrachloroethene	8.244	164	32874	1.822	ppbv	95
53) Toluene	6.962	91	109646	1.779	ppbv	98
54) 1,2-Dibromoethane	7.678	107	50010	1.820	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	44947	1.662	ppbv	98
57) Chlorobenzene	8.943	112	84749	1.906	ppbv	95
58) Ethyl Benzene	9.374	91	149185	1.804	ppbv	99
59) m/p-Xylene	9.568	91	238800m	3.666	ppbv	
60) o-Xylene	9.982	91	119170	1.809	ppbv	97
61) Styrene	9.888	104	55798	1.776	ppbv	96
62) Isopropylbenzene	10.555	105	181311	1.833	ppbv	97
63) 1,1,2,2-Tetrachloroethane	9.982	83	77911	1.833	ppbv	96
64) n-propylbenzene	11.005	120	47764	1.965	ppbv	92
65) tert-Butylbenzene	11.545	119	167973	1.948	ppbv	96
66) Benzyl Chloride	11.630	91	12304	1.423	ppbv #	98
67) sec-Butylbenzene	11.782	105	240504	1.986	ppbv	99
69) p-Isopropyltoluene	11.940	119	194660	1.963	ppbv	99
70) n-Butylbenzene	12.296	91	194416	1.991	ppbv	99
71) 2-Chlorotoluene	10.917	91	140068	1.880	ppbv	98
72) 4-Ethyltoluene	11.141	105	150038	1.944	ppbv	98
73) 1,3,5-Trimethylbenzene	11.218	105	128202	1.925	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	150380	2.104	ppbv #	88
75) 1,3-Dichlorobenzene	11.623	146	81884	2.129	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	82560	2.201	ppbv	97
77) 1,2-Dichlorobenzene	11.963	146	80367	2.186	ppbv	96
78) Hexachloro-1,3-Butadiene	13.895	225	63815	2.098	ppbv	99
79) Naphthalene	13.526	128	102197	1.454	ppbv	98
80) Naphthalene,2-methyl-	14.475	142	18104	0.569	ppbv	94
81) 1,2,4-Trichlorobenzene	13.455	180	57798	2.023	ppbv	98

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

Manual Integrations

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDICC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	161096	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	423363	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	369917	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	17457	0.629	ppbv	95
3) Chlorodifluoromethane	1.479	51	25229	0.823	ppbv	98
4) Chloromethane	1.538	50	6417	0.595	ppbv #	75
5) Vinyl Chloride	1.586	62	5567	0.432	ppbv	96
6) Bromomethane	1.674	94	2966	0.594	ppbv	100
7) Chloroethane	1.709	64	2542	0.605	ppbv	96
8) Dichlorotetrafluoroethane	1.560	85	14655	0.601	ppbv	90
9) Propene	1.486	41	10156	0.768	ppbv	96
10) Heptane	4.998	43	31354m	0.854	ppbv	
11) Trichlorofluoromethane	1.884	101	18079	0.648	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.149	101	14527	0.667	ppbv	92
13) Ethanol	1.725	45	915m	0.614	ppbv	
14) Bromoethene	1.787	108	4905	0.604	ppbv #	95
15) Acetone	1.845	43	15468	0.582	ppbv	98
16) 1,3-Butadiene	1.615	39	7010	0.556	ppbv	99
17) tert-Butyl alcohol	2.052	59	19092	0.580	ppbv	97
18) 1,1-Dichloroethene	2.043	96	7042	0.677	ppbv	94
19) Isopropyl Alcohol	1.894	45	9191	0.616	ppbv #	32
20) Methylene Chloride	2.068	84	6026	0.602	ppbv	95
21) Allyl Chloride	2.104	41	11550	0.600	ppbv	95
22) trans-1,2-Dichloroethene	2.347	96	8145m	0.722	ppbv	
23) Vinyl Acetate	2.473	43	9893	0.687	ppbv #	91
24) 1,1-Dichloroethane	2.418	63	13783	0.601	ppbv	98
25) Ethyl Acetate	2.852	43	59183	0.811	ppbv	99
26) Hexane	2.836	57	23549	0.804	ppbv	96
27) Carbon Disulfide	2.159	76	15659	0.568	ppbv #	46
28) Methyl tert-Butyl Ether	2.454	73	13593	0.759	ppbv	95
29) Chloroform	2.861	83	32925	0.776	ppbv	94
30) Cyclohexane	3.874	84	19953	0.840	ppbv	97
31) cis-1,2-Dichloroethene	2.732	61	22565	0.780	ppbv	97
32) 1,1,1-Trichloroethane	3.386	97	30870	0.656	ppbv	96
34) 2-Butanone	2.570	43	33820	0.929	ppbv	99
35) Carbon Tetrachloride	3.777	117	30618	0.745	ppbv	90
36) Benzene	3.674	78	45892	0.895	ppbv	96
37) 1,2-Dichloroethane	3.234	62	25585	0.876	ppbv	99
38) Trichloroethene	4.570	130	18921	0.908	ppbv	91
39) 1,2-Dichloropropane	4.334	63	17557	0.934	ppbv	94
40) 1,4-Dioxane	4.619	88	8319m	0.850	ppbv	
41) Tetrahydrofuran	3.075	42	20823	1.000	ppbv	96
42) Bromodichloromethane	4.515	83	33481	0.847	ppbv	97
43) Methyl Methacrylate	4.907	69	17679	0.756	ppbv	99
44) 2,2,4-Trimethylpentane	4.661	57	81921	0.941	ppbv	98
45) t-1,3-Dichloropropene	6.444	75	16578m	0.751	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042043.D
 Acq On : 25 Feb 2025 10:00
 Operator : SY/MD
 Sample : VSTDIC001
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC001

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	22127m	0.790	ppbv	
47) 1,1,2-Trichloroethane	6.616	97	18160m	0.918	ppbv	
48) Dibromochloromethane	7.412	129	28239	0.852	ppbv	97
49) Bromoform	9.500	173	23310	0.858	ppbv	94
50) 4-Methyl-2-Pentanone	5.791	43	41249m	0.737	ppbv	
51) 2-Hexanone	7.470	43	24117	0.527	ppbv #	97
52) Tetrachloroethene	8.241	164	16217	0.907	ppbv	89
53) Toluene	6.959	91	51231	0.838	ppbv	99
54) 1,2-Dibromoethane	7.674	107	23427	0.860	ppbv	94
56) 1,1,1,2-Tetrachloroethane	8.943	131	22060	0.833	ppbv	97
57) Chlorobenzene	8.937	112	41173	0.946	ppbv	96
58) Ethyl Benzene	9.370	91	70507	0.871	ppbv	97
59) m/p-Xylene	9.568	91	114691m	1.799	ppbv	
60) o-Xylene	9.979	91	57322	0.889	ppbv	99
61) Styrene	9.885	104	26596	0.865	ppbv	98
62) Isopropylbenzene	10.555	105	86533	0.894	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	38520	0.926	ppbv	98
64) n-propylbenzene	11.002	120	22456	0.944	ppbv	94
65) tert-Butylbenzene	11.545	119	83284	0.987	ppbv	99
66) Benzyl Chloride	11.626	91	5880m	0.695	ppbv	
67) sec-Butylbenzene	11.782	105	119435	1.007	ppbv	99
69) p-Isopropyltoluene	11.940	119	93710	0.966	ppbv	99
70) n-Butylbenzene	12.293	91	94969	0.993	ppbv	98
71) 2-Chlorotoluene	10.914	91	67655	0.928	ppbv	98
72) 4-Ethyltoluene	11.137	105	71906	0.952	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	64087	0.983	ppbv	96
74) 1,2,4-Trimethylbenzene	11.549	105	73323	1.048	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	41063	1.091	ppbv	99
76) 1,4-Dichlorobenzene	11.685	146	39235	1.068	ppbv	99
77) 1,2-Dichlorobenzene	11.960	146	40574	1.127	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	30764	1.033	ppbv	99
79) Naphthalene	13.526	128	45743	0.665	ppbv	98
80) Naphthalene,2-methyl-	14.471	142	5244	0.168	ppbv	94
81) 1,2,4-Trichlorobenzene	13.452	180	25404	0.908	ppbv	95

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDICC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.797	49	159644	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	421340	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	365954	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	10.390	95	281042	9.310	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.100%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	8852	0.322	ppbv	98
3) Chlorodifluoromethane	1.479	51	11921	0.392	ppbv	94
4) Chloromethane	1.537	50	3497	0.327	ppbv #	88
5) Vinyl Chloride	1.583	62	3005	0.235	ppbv	98
6) Bromomethane	1.673	94	1359	0.275	ppbv	92
7) Chloroethane	1.709	64	1205	0.290	ppbv	89
8) Dichlorotetrafluoroethane	1.557	85	7123	0.295	ppbv	99
9) Propene	1.486	41	4904	0.374	ppbv	94
10) Heptane	5.004	43	15731	0.432	ppbv	98
11) Trichlorofluoromethane	1.884	101	8429	0.305	ppbv	92
12) 1,1,2-Trichlorotrifluo...	2.146	101	7336	0.340	ppbv	98
13) Ethanol	1.725	45	426	0.288	ppbv	75
14) Bromoethene	1.787	108	2598	0.323	ppbv #	89
15) Acetone	1.842	43	8655	0.328	ppbv	96
16) 1,3-Butadiene	1.615	39	3803	0.304	ppbv	97
17) tert-Butyl alcohol	2.049	59	9447	0.290	ppbv #	90
18) 1,1-Dichloroethene	2.039	96	3173	0.308	ppbv	94
19) Isopropyl Alcohol	1.894	45	4481	0.303	ppbv #	32
20) Methylene Chloride	2.068	84	3423	0.345	ppbv	97
21) Allyl Chloride	2.104	41	5640	0.296	ppbv	100
22) trans-1,2-Dichloroethene	2.347	96	3838m	0.343	ppbv	
23) Vinyl Acetate	2.473	43	5499	0.385	ppbv #	86
24) 1,1-Dichloroethane	2.418	63	7396	0.326	ppbv #	88
25) Ethyl Acetate	2.848	43	30593	0.423	ppbv	98
26) Hexane	2.832	57	12739	0.439	ppbv	98
27) Carbon Disulfide	2.159	76	8316	0.305	ppbv #	15
28) Methyl tert-Butyl Ether	2.450	73	5185	0.292	ppbv #	80
29) Chloroform	2.858	83	17278	0.411	ppbv	93
30) Cyclohexane	3.874	84	9209	0.391	ppbv	88
31) cis-1,2-Dichloroethene	2.729	61	11344	0.395	ppbv	97
32) 1,1,1-Trichloroethane	3.382	97	15027	0.322	ppbv	93
34) 2-Butanone	2.570	43	17555	0.484	ppbv	99
35) Carbon Tetrachloride	3.780	117	14223	0.348	ppbv	90
36) Benzene	3.670	78	22728	0.445	ppbv	95
37) 1,2-Dichloroethane	3.230	62	13141	0.452	ppbv	100
38) Trichloroethene	4.570	130	9115	0.440	ppbv #	87
39) 1,2-Dichloropropane	4.331	63	8877m	0.474	ppbv	
40) 1,4-Dioxane	4.622	88	4046m	0.416	ppbv	
41) Tetrahydrofuran	3.078	42	9880	0.477	ppbv	98
42) Bromodichloromethane	4.505	83	16973	0.431	ppbv #	96
43) Methyl Methacrylate	4.904	69	8428	0.362	ppbv	93
44) 2,2,4-Trimethylpentane	4.661	57	40623	0.469	ppbv	98
45) t-1,3-Dichloropropene	6.441	75	8720m	0.397	ppbv	

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042044.D
 Acq On : 25 Feb 2025 10:31
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	10834m	0.389	ppbv	
47) 1,1,2-Trichloroethane	6.609	97	8982m	0.456	ppbv	
48) Dibromochloromethane	7.406	129	13014m	0.395	ppbv	
49) Bromoform	9.496	173	11640	0.430	ppbv	98
50) 4-Methyl-2-Pentanone	5.794	43	20992m	0.377	ppbv	
51) 2-Hexanone	7.470	43	12149m	0.267	ppbv	
52) Tetrachloroethene	8.241	164	8012	0.450	ppbv	95
53) Toluene	6.956	91	24224	0.398	ppbv	96
54) 1,2-Dibromoethane	7.674	107	11718m	0.432	ppbv	
56) 1,1,1,2-Tetrachloroethane	8.940	131	11100	0.424	ppbv #	61
57) Chlorobenzene	8.936	112	20167	0.468	ppbv	97
58) Ethyl Benzene	9.370	91	34506	0.431	ppbv	90
59) m/p-Xylene	9.568	91	54449m	0.863	ppbv	
60) o-Xylene	9.979	91	28757	0.451	ppbv	95
61) Styrene	9.885	104	12051	0.396	ppbv	99
62) Isopropylbenzene	10.552	105	42074	0.439	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.975	83	18774	0.456	ppbv	96
64) n-propylbenzene	11.001	120	10900	0.463	ppbv	100
65) tert-Butylbenzene	11.542	119	38066	0.456	ppbv	98
66) Benzyl Chloride	11.626	91	2589	0.309	ppbv #	96
67) sec-Butylbenzene	11.778	105	54394	0.464	ppbv	97
69) p-Isopropyltoluene	11.937	119	40978	0.427	ppbv	95
70) n-Butylbenzene	12.293	91	42673	0.451	ppbv	99
71) 2-Chlorotoluene	10.914	91	32161	0.446	ppbv	99
72) 4-Ethyltoluene	11.137	105	32477	0.434	ppbv #	95
73) 1,3,5-Trimethylbenzene	11.215	105	29130	0.452	ppbv	91
74) 1,2,4-Trimethylbenzene	11.548	105	33950	0.491	ppbv	97
75) 1,3-Dichlorobenzene	11.616	146	20339	0.546	ppbv	96
76) 1,4-Dichlorobenzene	11.684	146	20492	0.564	ppbv	93
77) 1,2-Dichlorobenzene	11.959	146	19373	0.544	ppbv	96
78) Hexachloro-1,3-Butadiene	13.892	225	15367	0.522	ppbv	99
79) Naphthalene	13.523	128	17897	0.263	ppbv #	95
80) Naphthalene,2-methyl-	14.478	142	1646	0.053	ppbv #	81
81) 1,2,4-Trichlorobenzene	13.452	180	10771	0.389	ppbv	94

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042045.D
 Acq On : 25 Feb 2025 11:03
 Operator : SY/MD
 Sample : VSTDIC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.803	49	161406	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	414875	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	363831	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	276484	9.213	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.100%
Target Compounds						
					Qvalue	
5) Vinyl Chloride	1.586	62	543	0.042	ppbv #	88
32) 1,1,1-Trichloroethane	3.386	97	3026	0.064	ppbv #	86
35) Carbon Tetrachloride	3.787	117	2923m	0.073	ppbv	
38) Trichloroethene	4.577	130	1915m	0.094	ppbv	
52) Tetrachloroethene	8.254	164	1552m	0.089	ppbv	
54) 1,2-Dibromoethane	7.678	107	2335m	0.087	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	3549m	0.087	ppbv	
79) Naphthalene	13.529	128	3058	0.045	ppbv #	91

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

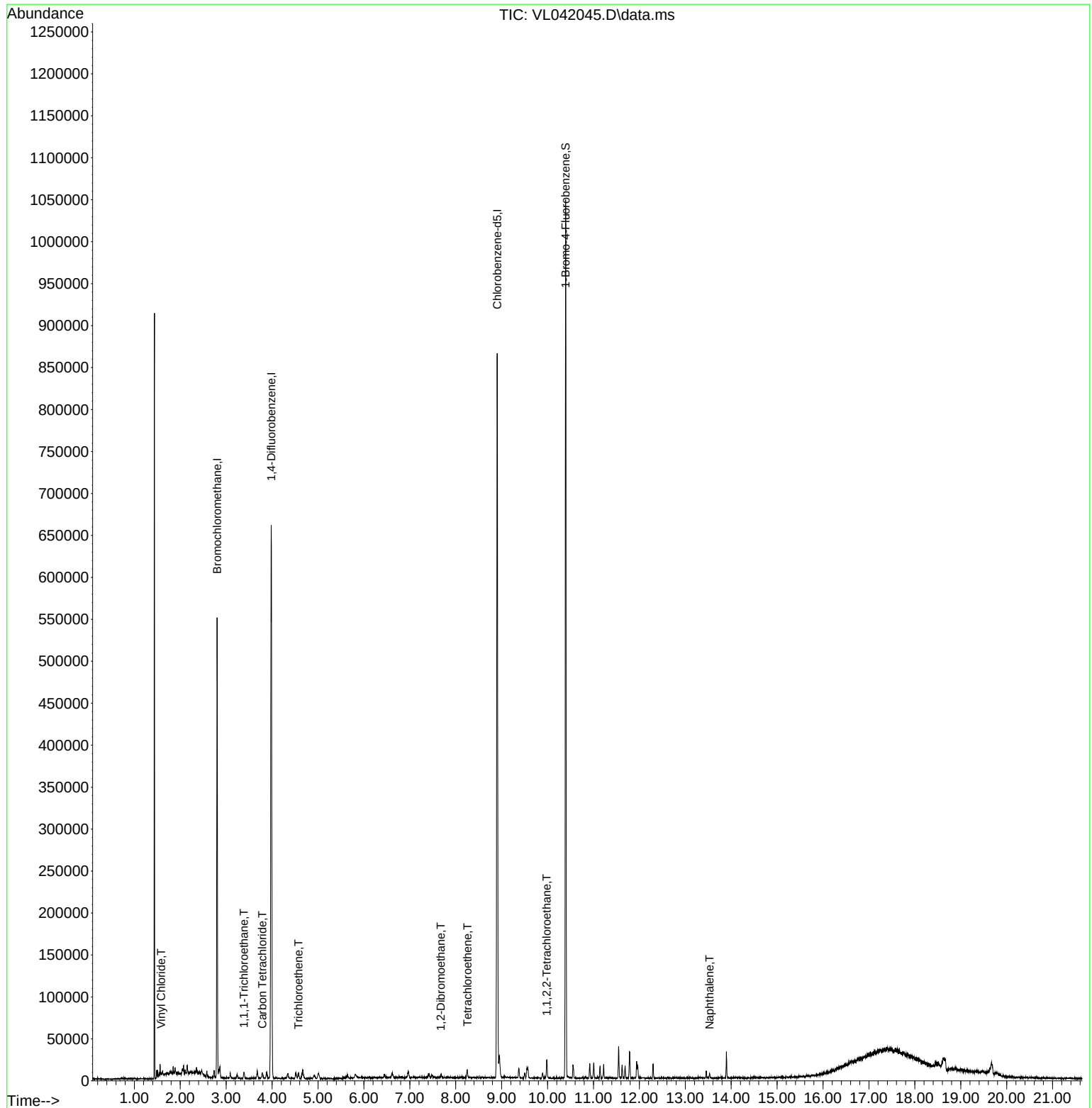
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042045.D
Acq On : 25 Feb 2025 11:03
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042046.D
 Acq On : 25 Feb 2025 11:34
 Operator : SY/MD
 Sample : VSTDICC0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2
 QLast Update : Tue Feb 25 10:31:48 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	160156	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	410900	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	353154	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	272906	9.368	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.700%

Target Compounds	Qvalue

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

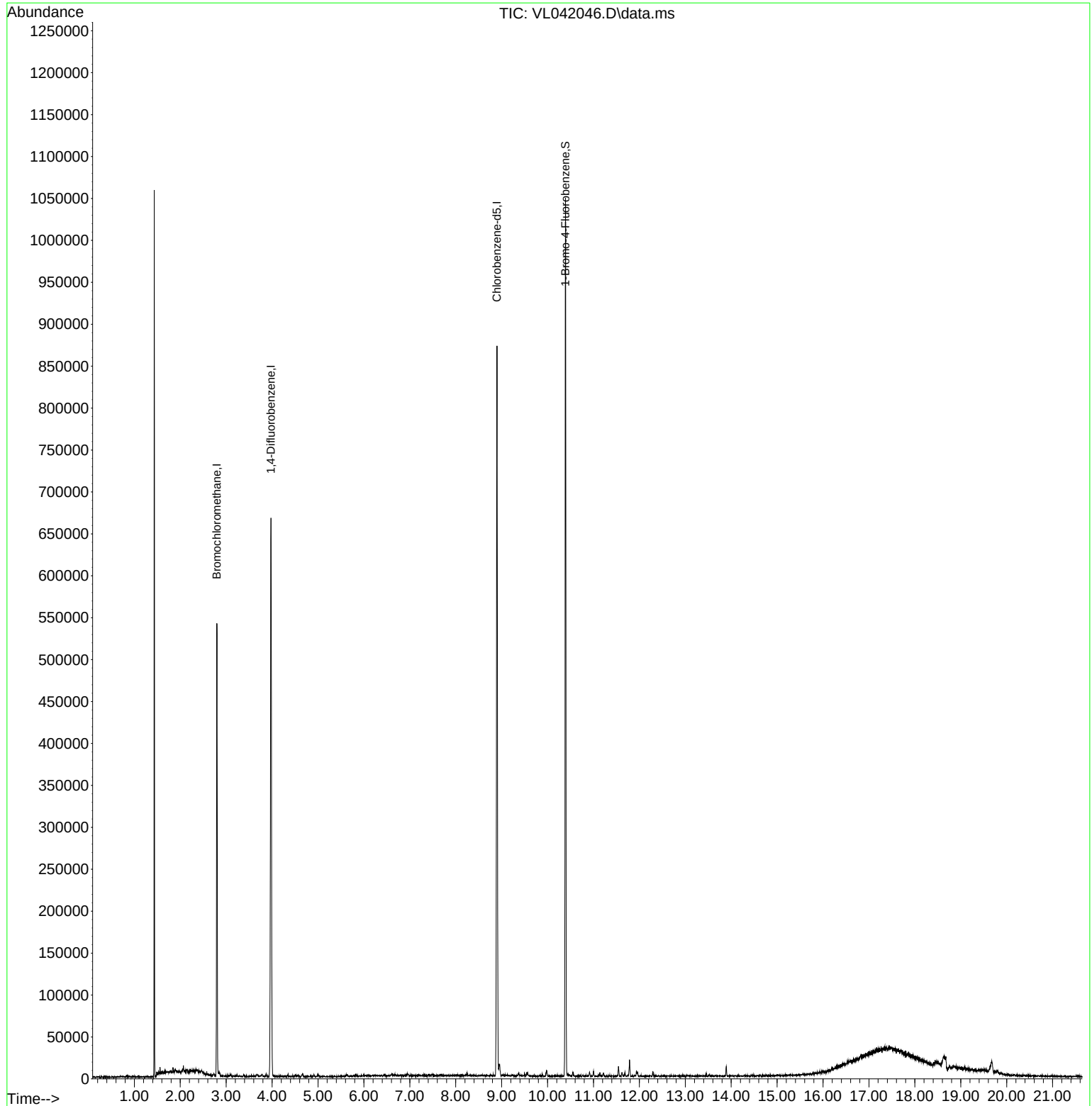
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
Data File : VL042046.D
Acq On : 25 Feb 2025 11:34
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:34:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Tue Feb 25 10:31:48 2025
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	159015	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	401919	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	351637	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	231978	8.474	ppbv	99
3) Chlorodifluoromethane	1.479	51	324821	10.733	ppbv	100
4) Chloromethane	1.537	50	82097	7.718	ppbv	98
5) Vinyl Chloride	1.586	62	81863	6.436	ppbv	99
6) Bromomethane	1.673	94	39366	7.983	ppbv	97
7) Chloroethane	1.709	64	33329	8.039	ppbv	92
8) Dichlorotetrafluoroethane	1.560	85	188716	7.837	ppbv	98
9) Propene	1.489	41	133086	10.201	ppbv	97
10) Heptane	5.004	43	400418	11.052	ppbv	99
11) Trichlorofluoromethane	1.884	101	230938	8.383	ppbv	95
12) 1,1,2-Trichlorotrifluo...	2.149	101	184306	8.579	ppbv	99
13) Ethanol	1.725	45	4281	2.909	ppbv	100
14) Bromoethene	1.787	108	65496	8.164	ppbv	99
15) Acetone	1.842	43	172538	6.574	ppbv	98
16) 1,3-Butadiene	1.615	39	87490	7.027	ppbv	100
17) tert-Butyl alcohol	2.049	59	239569	7.377	ppbv	98
18) 1,1-Dichloroethene	2.042	96	80535	7.845	ppbv	98
19) Isopropyl Alcohol	1.894	45	102365	6.955	ppbv	99
20) Methylene Chloride	2.068	84	66282	6.709	ppbv	98
21) Allyl Chloride	2.104	41	140726	7.406	ppbv	99
22) trans-1,2-Dichloroethene	2.350	96	94321	8.466	ppbv	95
23) Vinyl Acetate	2.473	43	139727	9.831	ppbv	99
24) 1,1-Dichloroethane	2.418	63	180882	7.997	ppbv	99
25) Ethyl Acetate	2.848	43	767353	10.652	ppbv	99
26) Hexane	2.839	57	306864	10.615	ppbv	99
27) Carbon Disulfide	2.159	76	224609	8.261	ppbv	98
28) Methyl tert-Butyl Ether	2.453	73	168058	9.510	ppbv	98
29) Chloroform	2.861	83	409240	9.774	ppbv	100
30) Cyclohexane	3.874	84	256687	10.946	ppbv	98
31) cis-1,2-Dichloroethene	2.732	61	299324	10.476	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	417615	8.994	ppbv	98
34) 2-Butanone	2.570	43	457602	13.234	ppbv	98
35) Carbon Tetrachloride	3.780	117	410730	10.524	ppbv	96
36) Benzene	3.674	78	602107	12.367	ppbv	97
37) 1,2-Dichloroethane	3.233	62	335275	12.097	ppbv	99
38) Trichloroethene	4.573	130	228298	11.542	ppbv	98
39) 1,2-Dichloropropane	4.337	63	228418	12.797	ppbv	98
40) 1,4-Dioxane	4.609	88	104519	11.253	ppbv #	96
41) Tetrahydrofuran	3.068	42	271202	13.724	ppbv	100
42) Bromodichloromethane	4.512	83	461272	12.285	ppbv	96
43) Methyl Methacrylate	4.907	69	246468	11.105	ppbv	97
44) 2,2,4-Trimethylpentane	4.667	57	1054880	12.763	ppbv	99
45) t-1,3-Dichloropropene	6.444	75	249612	11.914	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042047.D
 Acq On : 25 Feb 2025 12:07
 Operator : SY/MD
 Sample : VSTDIC015
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	317266	11.935	ppbv	98
47) 1,1,2-Trichloroethane	6.609	97	226021	12.032	ppbv	95
48) Dibromochloromethane	7.412	129	369666	11.750	ppbv	99
49) Bromoform	9.503	173	317322	12.297	ppbv	99
50) 4-Methyl-2-Pentanone	5.787	43	650307	12.237	ppbv	99
51) 2-Hexanone	7.461	43	530165	12.198	ppbv #	100
52) Tetrachloroethene	8.247	164	203233	11.968	ppbv	94
53) Toluene	6.959	91	673822	11.615	ppbv	99
54) 1,2-Dibromoethane	7.677	107	309982	11.985	ppbv	95
56) 1,1,1,2-Tetrachloroethane	8.946	131	276326	10.979	ppbv	99
57) Chlorobenzene	8.943	112	494606	11.957	ppbv	98
58) Ethyl Benzene	9.373	91	922265	11.984	ppbv	100
59) m/p-Xylene	9.571	91	1456036m	24.020	ppbv	
60) o-Xylene	9.982	91	712735	11.626	ppbv	99
61) Styrene	9.888	104	363855	12.446	ppbv	99
62) Isopropylbenzene	10.558	105	1068777	11.612	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	459839	11.626	ppbv	100
64) n-propylbenzene	11.005	120	282364	12.486	ppbv	99
65) tert-Butylbenzene	11.548	119	924810	11.526	ppbv	99
66) Benzyl Chloride	11.633	91	78975	9.819	ppbv	98
67) sec-Butylbenzene	11.785	105	1315730	11.674	ppbv	99
69) p-Isopropyltoluene	11.940	119	1084253	11.752	ppbv	99
70) n-Butylbenzene	12.296	91	1118373	12.306	ppbv	99
71) 2-Chlorotoluene	10.917	91	818204	11.804	ppbv	100
72) 4-Ethyltoluene	11.141	105	880883	12.264	ppbv	99
73) 1,3,5-Trimethylbenzene	11.218	105	738619	11.921	ppbv	98
74) 1,2,4-Trimethylbenzene	11.552	105	784701	11.801	ppbv	91
75) 1,3-Dichlorobenzene	11.623	146	465436	13.003	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	467249	13.386	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	449222	13.129	ppbv	98
78) Hexachloro-1,3-Butadiene	13.895	225	351085	12.403	ppbv	100
79) Naphthalene	13.526	128	764990	11.696	ppbv	99
80) Naphthalene,2-methyl-	14.471	142	324431	10.956	ppbv	99
81) 1,2,4-Trichlorobenzene	13.455	180	354990	13.351	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Manual Integrations

APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025
 Supervised By : Mahesh Dadoda 02/26/2025

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

Internal Standards						
1) Bromochloromethane	2.800	49	158881	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	406520	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	350262	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.505	85	158709	9.606	ppbv	99
3) Chlorodifluoromethane	1.479	51	219646	9.512	ppbv	100
4) Chloromethane	1.537	50	54628	8.941	ppbv	100
5) Vinyl Chloride	1.586	62	52672	9.114	ppbv	98
6) Bromomethane	1.673	94	25374	9.221	ppbv	100
7) Chloroethane	1.709	64	22174	9.443	ppbv #	87
8) Dichlorotetrafluoroethane	1.560	85	127046	9.354	ppbv	100
9) Propene	1.489	41	90844	9.657	ppbv	96
10) Heptane	5.010	43	269133	9.188	ppbv	99
11) Trichlorofluoromethane	1.884	101	156871	9.476	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.149	101	115089	8.715	ppbv	99
13) Ethanol	1.728	45	2630	4.404	ppbv	98
14) Bromoethene	1.790	108	43546	9.338	ppbv	98
15) Acetone	1.842	43	118697	8.460	ppbv	97
16) 1,3-Butadiene	1.615	39	61603	9.434	ppbv	98
17) tert-Butyl alcohol	2.049	59	154116	8.779	ppbv	98
18) 1,1-Dichloroethene	2.042	96	51973	8.711	ppbv	98
19) Isopropyl Alcohol	1.894	45	69546	8.629	ppbv	96
20) Methylene Chloride	2.072	84	42028	7.919	ppbv	96
21) Allyl Chloride	2.104	41	90745	8.951	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	59140	8.502	ppbv	98
23) Vinyl Acetate	2.476	43	93605	9.488	ppbv #	98
24) 1,1-Dichloroethane	2.421	63	112869	8.721	ppbv	100
25) Ethyl Acetate	2.852	43	533113	9.492	ppbv	99
26) Hexane	2.839	57	208955	9.203	ppbv	97
27) Carbon Disulfide	2.159	76	138176	8.978	ppbv	97
28) Methyl tert-Butyl Ether	2.453	73	94554	8.365	ppbv	100
29) Chloroform	2.865	83	281191	9.202	ppbv	97
30) Cyclohexane	3.878	84	168830	9.161	ppbv	94
31) cis-1,2-Dichloroethene	2.735	61	199564	9.285	ppbv	99
32) 1,1,1-Trichloroethane	3.386	97	278512	9.396	ppbv	98
34) 2-Butanone	2.570	43	308064	9.727	ppbv	97
35) Carbon Tetrachloride	3.784	117	276599	9.867	ppbv	98
36) Benzene	3.677	78	399804	9.395	ppbv	98
37) 1,2-Dichloroethane	3.233	62	223946	9.491	ppbv	99
38) Trichloroethene	4.573	130	156488	9.005	ppbv	96
39) 1,2-Dichloropropane	4.340	63	152063	9.414	ppbv	97
40) 1,4-Dioxane	4.616	88	65010	8.817	ppbv #	98
41) Tetrahydrofuran	3.072	42	181453	9.696	ppbv	99
42) Bromodichloromethane	4.512	83	305385	9.606	ppbv	97
43) Methyl Methacrylate	4.910	69	160954	9.685	ppbv	95
44) 2,2,4-Trimethylpentane	4.667	57	712051	9.480	ppbv	99
45) t-1,3-Dichloropropene	6.447	75	159680	9.671	ppbv	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	206836	9.680	ppbv	96
47) 1,1,2-Trichloroethane	6.613	97	148220	9.039	ppbv	95
48) Dibromochloromethane	7.412	129	241593	9.407	ppbv	100
49) Bromoform	9.503	173	210370	9.432	ppbv	98
50) 4-Methyl-2-Pentanone	5.790	43	431123	10.526	ppbv	98
51) 2-Hexanone	7.464	43	354515	12.576	ppbv #	100
52) Tetrachloroethene	8.247	164	134062	9.202	ppbv	97
53) Toluene	6.962	91	448495	9.430	ppbv	98
54) 1,2-Dibromoethane	7.677	107	206335	9.307	ppbv	96
56) 1,1,1,2-Tetrachloroethane	8.946	131	182800	9.234	ppbv	99
57) Chlorobenzene	8.943	112	334696	9.216	ppbv	99
58) Ethyl Benzene	9.377	91	613622	9.513	ppbv	99
59) m/p-Xylene	9.571	91	977425m	19.041	ppbv	
60) o-Xylene	9.985	91	481683	9.334	ppbv	100
61) Styrene	9.891	104	241617	9.959	ppbv	99
62) Isopropylbenzene	10.558	105	729350	9.437	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	312794	9.204	ppbv	99
64) n-propylbenzene	11.008	120	192704	9.506	ppbv	99
65) tert-Butylbenzene	11.548	119	632202	8.988	ppbv	100
66) Benzyl Chloride	11.633	91	52645	9.808	ppbv	98
67) sec-Butylbenzene	11.785	105	914405	9.090	ppbv	99
69) p-Isopropyltoluene	11.940	119	753761	9.418	ppbv	100
70) n-Butylbenzene	12.296	91	781034	9.560	ppbv	99
71) 2-Chlorotoluene	10.917	91	559993	9.399	ppbv	100
72) 4-Ethyltoluene	11.144	105	602156	9.557	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	505451	9.248	ppbv	100
74) 1,2,4-Trimethylbenzene	11.555	105	547176	8.891	ppbv	95
75) 1,3-Dichlorobenzene	11.623	146	324491	9.161	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	322712	9.176	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	312159	9.081	ppbv	99
78) Hexachloro-1,3-Butadiene	13.895	225	228480	8.543	ppbv	99
79) Naphthalene	13.529	128	513148	12.160	ppbv	98
80) Naphthalene,2-methyl-	14.474	142	198077	17.152	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	234354	9.965	ppbv	97

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

Manual Integrations

Reviewed By :Semsettin Yesilyurt 02/26/2025
Supervised By :Mahesh Dadoda 02/26/2025

[illegible]

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	99	0.00
2 T	Dichlorodifluoromethane	1.040	0.999	3.9	104	0.00
3	Chlorodifluoromethane	1.453	1.382	4.9	104	0.00
4	Chloromethane	0.385	0.344	10.6	99	0.00
5 T	Vinyl Chloride	0.364	0.332	8.8	97	0.00
6 T	Bromomethane	0.173	0.160	7.5	98	0.00
7	Chloroethane	0.148	0.140	5.4	102	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.800	6.4	101	0.00
9 T	Propene	0.592	0.572	3.4	108	0.00
10 T	Heptane	1.844	1.694	8.1	100	0.00
11 T	Trichlorofluoromethane	1.042	0.987	5.3	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.724	12.9	102	0.00
13	Ethanol	0.038	0.017#	55.3#	83	0.00
14 T	Bromoethene	0.293	0.274	6.5	103	0.00
15 T	Acetone	0.883	0.747	15.4	103	0.00
16 T	1,3-Butadiene	0.411	0.388	5.6	107	0.00
17	tert-Butyl alcohol	1.105	0.970	12.2	101	0.00
18 T	1,1-Dichloroethene	0.376	0.327	13.0	101	0.00
19 T	Isopropyl Alcohol	0.507	0.438	13.6	103	0.00
20 T	Methylene Chloride	0.334	0.265	20.7	100	0.00
21 T	Allyl Chloride	0.638	0.571	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.372	15.1	103	0.00
23 T	Vinyl Acetate	0.621	0.589	5.2	112	0.00
24 T	1,1-Dichloroethane	0.815	0.710	12.9	105	0.00
25 T	Ethyl Acetate	3.535	3.355	5.1	104	0.00
26 T	Hexane	1.429	1.315	8.0	101	0.00
27 T	Carbon Disulfide	0.969	0.870	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.595	16.3	112	0.00
29 T	Chloroform	1.923	1.770	8.0	101	0.00
30 T	Cyclohexane	1.160	1.063	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.256	7.2	100	0.00
32 T	1,1,1-Trichloroethane	1.866	1.753	6.1	98	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	96	0.00
34 T	2-Butanone	0.779	0.758	2.7	105	0.00
35 T	Carbon Tetrachloride	0.690	0.680	1.4	100	0.00
36 T	Benzene	1.047	0.983	6.1	98	0.00
37 T	1,2-Dichloroethane	0.580	0.551	5.0	102	0.00
38 T	Trichloroethene	0.427	0.385	9.8	98	0.00
39 T	1,2-Dichloropropane	0.397	0.374	5.8	101	0.00
40 T	1,4-Dioxane	0.181	0.160	11.6	94	0.00
41 T	Tetrahydrofuran	0.460	0.446	3.0	103	0.00
42 T	Bromodichloromethane	0.782	0.751	4.0	98	0.00
43	Methyl Methacrylate	0.409	0.396	3.2	97	0.00
44 T	2,2,4-Trimethylpentane	1.848	1.752	5.2	101	0.00
45 T	t-1,3-Dichloropropene	0.406	0.393	3.2	96	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.509	3.2	95	0.00
47 T	1,1,2-Trichloroethane	0.403	0.365	9.4	97	0.00
48 T	Dibromochloromethane	0.632	0.594	6.0	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.517	5.8	95	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.061	-5.3	101	0.00
51 T	2-Hexanone	0.693	0.872	-25.8	101	0.00
52 T	Tetrachloroethene	0.358	0.330	7.8	97	0.00
53 T	Toluene	1.170	1.103	5.7	97	0.00
54 T	1,2-Dibromoethane	0.545	0.508	6.8	98	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.522	7.6	97	0.00
57 T	Chlorobenzene	1.037	0.956	7.8	98	0.00
58 T	Ethyl Benzene	1.842	1.752	4.9	97	0.00
59 T	m/p-Xylene	1.466	1.395	4.8	98	0.02
60 T	o-Xylene	1.473	1.375	6.7	98	0.00
61 T	Styrene	0.693	0.690	0.4	98	0.00
62	Isopropylbenzene	2.207	2.082	5.7	99	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	0.893	7.9	99	0.00
64	n-propylbenzene	0.579	0.550	5.0	98	0.00
65	tert-Butylbenzene	2.008	1.805	10.1	97	0.00
66 T	Benzyl Chloride	0.153	0.150	2.0	92	0.00
67	sec-Butylbenzene	2.872	2.611	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.784	-2.0	96	0.00
69	p-Isopropyltoluene	2.285	2.152	5.8	100	0.00
70	n-Butylbenzene	2.332	2.230	4.4	101	0.00
71	2-Chlorotoluene	1.701	1.599	6.0	99	0.00
72 T	4-Ethyltoluene	1.799	1.719	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.443	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.562	11.1	99	0.00
75 T	1,3-Dichlorobenzene	1.011	0.926	8.4	100	0.00
76 T	1,4-Dichlorobenzene	1.004	0.921	8.3	100	0.00
77 T	1,2-Dichlorobenzene	0.981	0.891	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.652	14.7	96	0.00
79 T	Naphthalene	1.205	1.465	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	0.330	0.566	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.669	0.3	97	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	99	0.00
2 T	Dichlorodifluoromethane	10.000	9.606	3.9	104	0.00
3	Chlorodifluoromethane	10.000	9.512	4.9	104	0.00
4	Chloromethane	10.000	8.941	10.6	99	0.00
5 T	Vinyl Chloride	10.000	9.114	8.9	97	0.00
6 T	Bromomethane	10.000	9.221	7.8	98	0.00
7	Chloroethane	10.000	9.443	5.6	102	0.00
8 T	Dichlorotetrafluoroethane	10.000	9.354	6.5	101	0.00
9 T	Propene	10.000	9.657	3.4	108	0.00
10 T	Heptane	10.000	9.188	8.1	100	0.00
11 T	Trichlorofluoromethane	10.000	9.476	5.2	103	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	8.715	12.9	102	0.00
13	Ethanol	10.000	4.404	56.0#	83	0.00
14 T	Bromoethene	10.000	9.338	6.6	103	0.00
15 T	Acetone	10.000	8.460	15.4	103	0.00
16 T	1,3-Butadiene	10.000	9.434	5.7	107	0.00
17	tert-Butyl alcohol	10.000	8.779	12.2	101	0.00
18 T	1,1-Dichloroethene	10.000	8.711	12.9	101	0.00
19 T	Isopropyl Alcohol	10.000	8.629	13.7	103	0.00
20 T	Methylene Chloride	10.000	7.919	20.8	100	0.00
21 T	Allyl Chloride	10.000	8.951	10.5	105	0.00
22 T	trans-1,2-Dichloroethene	10.000	8.502	15.0	103	0.00
23 T	Vinyl Acetate	10.000	9.488	5.1	112	0.00
24 T	1,1-Dichloroethane	10.000	8.721	12.8	105	0.00
25 T	Ethyl Acetate	10.000	9.492	5.1	104	0.00
26 T	Hexane	10.000	9.203	8.0	101	0.00
27 T	Carbon Disulfide	10.000	8.978	10.2	100	0.00
28 T	Methyl tert-Butyl Ether	10.000	8.365	16.3	112	0.00
29 T	Chloroform	10.000	9.202	8.0	101	0.00
30 T	Cyclohexane	10.000	9.161	8.4	97	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.285	7.1	100	0.00
32 T	1,1,1-Trichloroethane	10.000	9.396	6.0	98	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	96	0.00
34 T	2-Butanone	10.000	9.727	2.7	105	0.00
35 T	Carbon Tetrachloride	10.000	9.867	1.3	100	0.00
36 T	Benzene	10.000	9.395	6.1	98	0.00
37 T	1,2-Dichloroethane	10.000	9.491	5.1	102	0.00
38 T	Trichloroethene	10.000	9.005	9.9	98	0.00
39 T	1,2-Dichloropropane	10.000	9.414	5.9	101	0.00
40 T	1,4-Dioxane	10.000	8.817	11.8	94	0.00
41 T	Tetrahydrofuran	10.000	9.696	3.0	103	0.00
42 T	Bromodichloromethane	10.000	9.606	3.9	98	0.00
43	Methyl Methacrylate	10.000	9.685	3.1	97	0.00
44 T	2,2,4-Trimethylpentane	10.000	9.480	5.2	101	0.00
45 T	t-1,3-Dichloropropene	10.000	9.671	3.3	96	0.00
46 T	cis-1,3-Dichloropropene	10.000	9.680	3.2	95	0.00
47 T	1,1,2-Trichloroethane	10.000	9.039	9.6	97	0.00
48 T	Dibromochloromethane	10.000	9.407	5.9	96	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042048.D
 Acq On : 25 Feb 2025 13:15
 Operator : SY/MD
 Sample : VSTDICV010
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	9.432	5.7	95	0.00
50 T	4-Methyl-2-Pentanone	10.000	10.526	-5.3	101	0.00
51 T	2-Hexanone	10.000	12.576	-25.8	101	0.00
52 T	Tetrachloroethene	10.000	9.202	8.0	97	0.00
53 T	Toluene	10.000	9.430	5.7	97	0.00
54 T	1,2-Dibromoethane	10.000	9.307	6.9	98	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	94	0.00
56	1,1,1,2-Tetrachloroethane	10.000	9.234	7.7	97	0.00
57 T	Chlorobenzene	10.000	9.216	7.8	98	0.00
58 T	Ethyl Benzene	10.000	9.513	4.9	97	0.00
59 T	m/p-Xylene	20.000	19.041	4.8	98	0.02
60 T	o-Xylene	10.000	9.334	6.7	98	0.00
61 T	Styrene	10.000	9.959	0.4	98	0.00
62	Isopropylbenzene	10.000	9.437	5.6	99	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	9.204	8.0	99	0.00
64	n-propylbenzene	10.000	9.506	4.9	98	0.00
65	tert-Butylbenzene	10.000	8.988	10.1	97	0.00
66 T	Benzyl Chloride	10.000	9.808	1.9	92	0.00
67	sec-Butylbenzene	10.000	9.090	9.1	98	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.188	-1.9	96	0.00
69	p-Isopropyltoluene	10.000	9.418	5.8	100	0.00
70	n-Butylbenzene	10.000	9.560	4.4	101	0.00
71	2-Chlorotoluene	10.000	9.399	6.0	99	0.00
72 T	4-Ethyltoluene	10.000	9.557	4.4	99	0.00
73 T	1,3,5-Trimethylbenzene	10.000	9.248	7.5	98	0.00
74 T	1,2,4-Trimethylbenzene	10.000	8.891	11.1	99	0.00
75 T	1,3-Dichlorobenzene	10.000	9.161	8.4	100	0.00
76 T	1,4-Dichlorobenzene	10.000	9.176	8.2	100	0.00
77 T	1,2-Dichlorobenzene	10.000	9.081	9.2	100	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	8.543	14.6	96	0.00
79 T	Naphthalene	10.000	12.160	-21.6	100	0.00
80 T	Naphthalene,2-methyl-	10.000	17.152	-71.5#	94	0.00
81 T	1,2,4-Trichlorobenzene	10.000	9.965	0.4	97	0.00

(#) = Out of Range

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1483 SAS No.: Q1483 SDG No.: Q1483

Instrument ID: MSVOA_L Calibration Date/Time: 03/05/2025 08:30

Lab File ID: VL042095.D Init. Calib. Date(s): 02/25/2025 02/25/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 08:56 12:07

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.364	0.422		15.93	30
1,1-Dichloroethene	0.376	0.402		6.91	30
cis-1,2-Dichloroethene	1.353	1.318		-2.59	30
1,1,1-Trichloroethane	1.866	1.769		-5.2	30
Trichloroethene	0.427	0.436		2.11	30
Tetrachloroethene	0.358	0.368		2.79	30
1-Bromo-4-Fluorobenzene	0.769	0.780		1.43	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\VL030525\
 Data File : VL042095.D
 Acq On : 05 Mar 2025 08:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/06/2025
 Supervised By : Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:02:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	165815	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	390110	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	326693	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 254935 10.143 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.400%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.502	85	198877	11.534	ppbv	100
3) Chlorodifluoromethane	1.479	51	247002	10.249	ppbv	99
4) Chloromethane	1.538	50	69218	10.855	ppbv	97
5) Vinyl Chloride	1.583	62	70039	11.612	ppbv	100
6) Bromomethane	1.674	94	33156	11.545	ppbv	99
7) Chloroethane	1.709	64	27201	11.099	ppbv	93
8) Dichlorotetrafluoroethane	1.557	85	161908	11.422	ppbv	98
9) Propene	1.486	41	101132	10.301	ppbv	98
10) Heptane	4.998	43	294595	9.637	ppbv	99
11) Trichlorofluoromethane	1.881	101	207056	11.984	ppbv	100
12) 1,1,2-Trichlorotrifluo...	2.146	101	158786	11.522	ppbv	95
13) Ethanol	1.725	45	3973	6.375	ppbv	97
14) Bromoethene	1.787	108	55735	11.452	ppbv	98
15) Acetone	1.842	43	155205	10.599	ppbv	99
16) 1,3-Butadiene	1.612	39	74898	10.991	ppbv	99
17) tert-Butyl alcohol	2.046	59	177305	9.678	ppbv	98
18) 1,1-Dichloroethene	2.039	96	66720	10.714	ppbv	96
19) Isopropyl Alcohol	1.890	45	90553	10.766	ppbv	99
20) Methylene Chloride	2.065	84	56483	10.197	ppbv	97
21) Allyl Chloride	2.101	41	112377	10.621	ppbv	99
22) trans-1,2-Dichloroethene	2.347	96	80221	11.051	ppbv	97
23) Vinyl Acetate	2.473	43	92000	8.935	ppbv	99
24) 1,1-Dichloroethane	2.415	63	153390	11.356	ppbv	99
25) Ethyl Acetate	2.845	43	605239	10.326	ppbv	99
26) Hexane	2.836	57	233025	9.834	ppbv	94
27) Carbon Disulfide	2.156	76	186945	11.638	ppbv	98
28) Methyl tert-Butyl Ether	2.450	73	124722	10.572	ppbv	98
29) Chloroform	2.858	83	317011	9.940	ppbv	97
30) Cyclohexane	3.868	84	181970	9.461	ppbv	94
31) cis-1,2-Dichloroethene	2.729	61	218493	9.740	ppbv	97
32) 1,1,1-Trichloroethane	3.379	97	293286	9.480	ppbv	95
34) 2-Butanone	2.567	43	345137	11.356	ppbv	97
35) Carbon Tetrachloride	3.774	117	302815	11.257	ppbv	97
36) Benzene	3.671	78	442810	10.843	ppbv	99
37) 1,2-Dichloroethane	3.230	62	247532	10.932	ppbv	99
38) Trichloroethene	4.567	130	170102	10.200	ppbv	95
39) 1,2-Dichloropropane	4.331	63	166038	10.712	ppbv	98
40) 1,4-Dioxane	4.603	88	76351	10.790	ppbv #	99
41) Tetrahydrofuran	3.065	42	193293	10.764	ppbv	98
42) Bromodichloromethane	4.506	83	333484	10.931	ppbv	99
43) Methyl Methacrylate	4.900	69	164805	10.334	ppbv	94
44) 2,2,4-Trimethylpentane	4.661	57	785325	10.896	ppbv	99
45) t-1,3-Dichloropropene	6.435	75	153774	9.705	ppbv	95

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042095.D
 Acq On : 05 Mar 2025 08:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:02:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	212388m	10.358	ppbv	
47) 1,1,2-Trichloroethane	6.603	97	165682	10.528	ppbv	95
48) Dibromochloromethane	7.406	129	265905	10.789	ppbv	99
49) Bromoform	9.500	173	231505	10.816	ppbv	99
50) 4-Methyl-2-Pentanone	5.778	43	469741	11.951	ppbv	97
51) 2-Hexanone	7.457	43	375683	13.887	ppbv #	98
52) Tetrachloroethene	8.241	164	143621	10.273	ppbv	95
53) Toluene	6.952	91	473242	10.369	ppbv	99
54) 1,2-Dibromoethane	7.668	107	220700	10.373	ppbv	91
56) 1,1,1,2-Tetrachloroethane	8.937	131	207111	11.216	ppbv	99
57) Chlorobenzene	8.937	112	378902	11.186	ppbv	98
58) Ethyl Benzene	9.370	91	647740	10.766	ppbv	98
59) m/p-Xylene	9.564	91	1067183m	22.289	ppbv	
60) o-Xylene	9.979	91	536421	11.145	ppbv	99
61) Styrene	9.885	104	245534	10.850	ppbv	99
62) Isopropylbenzene	10.552	105	796344	11.047	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.976	83	362361	11.432	ppbv	100
64) n-propylbenzene	11.002	120	213005	11.265	ppbv	100
65) tert-Butylbenzene	11.542	119	705653	10.756	ppbv	100
66) Benzyl Chloride	11.626	91	41915	8.373	ppbv	98
67) sec-Butylbenzene	11.778	105	1017676	10.846	ppbv	98
69) p-Isopropyltoluene	11.937	119	838899	11.238	ppbv	99
70) n-Butylbenzene	12.293	91	867869	11.390	ppbv	99
71) 2-Chlorotoluene	10.914	91	600054	10.798	ppbv	100
72) 4-Ethyltoluene	11.137	105	644397	10.965	ppbv	99
73) 1,3,5-Trimethylbenzene	11.215	105	548471	10.759	ppbv	99
74) 1,2,4-Trimethylbenzene	11.549	105	613250	10.683	ppbv	99
75) 1,3-Dichlorobenzene	11.620	146	357254	10.814	ppbv	99
76) 1,4-Dichlorobenzene	11.684	146	360532	10.991	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	358512	11.182	ppbv	100
78) Hexachloro-1,3-Butadiene	13.892	225	252408	10.118	ppbv	99
79) Naphthalene	13.523	128	552752	14.043	ppbv	99
80) Naphthalene,2-methyl-	14.468	142	195224	18.124	ppbv	100
81) 1,2,4-Trichlorobenzene	13.452	180	248785	11.342	ppbv	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042095.D
 Acq On : 05 Mar 2025 08:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 06 01:02:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	1.040	1.199	-15.3	131	0.00
3	Chlorodifluoromethane	1.453	1.490	-2.5	117	0.00
4	Chloromethane	0.385	0.417	-8.3	125	0.00
5 T	Vinyl Chloride	0.364	0.422	-15.9	129	0.00
6 T	Bromomethane	0.173	0.200	-15.6	128	0.00
7	Chloroethane	0.148	0.164	-10.8	125	0.00
8 T	Dichlorotetrafluoroethane	0.855	0.976	-14.2	129	0.00
9 T	Propene	0.592	0.610	-3.0	120	0.00
10 T	Heptane	1.844	1.777	3.6	110	0.00
11 T	Trichlorofluoromethane	1.042	1.249	-19.9	136	0.00
12 T	1,1,2-Trichlorotrifluoroeth	0.831	0.958	-15.3	141	0.00
13	Ethanol	0.038	0.024#	36.8#	125	0.00
14 T	Bromoethene	0.293	0.336	-14.7	131	0.00
15 T	Acetone	0.883	0.936	-6.0	135	0.00
16 T	1,3-Butadiene	0.411	0.452	-10.0	130	0.00
17	tert-Butyl alcohol	1.105	1.069	3.3	116	0.00
18 T	1,1-Dichloroethene	0.376	0.402	-6.9	129	0.00
19 T	Isopropyl Alcohol	0.507	0.546	-7.7	134	0.00
20 T	Methylene Chloride	0.334	0.341	-2.1	134	0.00
21 T	Allyl Chloride	0.638	0.678	-6.3	130	0.00
22 T	trans-1,2-Dichloroethene	0.438	0.484	-10.5	139	0.00
23 T	Vinyl Acetate	0.621	0.555	10.6	110	0.00
24 T	1,1-Dichloroethane	0.815	0.925	-13.5	142	0.00
25 T	Ethyl Acetate	3.535	3.650	-3.3	118	0.00
26 T	Hexane	1.429	1.405	1.7	113	0.00
27 T	Carbon Disulfide	0.969	1.127	-16.3	135	0.00
28 T	Methyl tert-Butyl Ether	0.711	0.752	-5.8	148	0.00
29 T	Chloroform	1.923	1.912	0.6	114	0.00
30 T	Cyclohexane	1.160	1.097	5.4	105	0.00
31 T	cis-1,2-Dichloroethene	1.353	1.318	2.6	110	0.00
32 T	1,1,1-Trichloroethane	1.866	1.769	5.2	103	0.00
33 I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34 T	2-Butanone	0.779	0.885	-13.6	118	0.00
35 T	Carbon Tetrachloride	0.690	0.776	-12.5	109	0.00
36 T	Benzene	1.047	1.135	-8.4	108	0.00
37 T	1,2-Dichloroethane	0.580	0.635	-9.5	113	0.00
38 T	Trichloroethene	0.427	0.436	-2.1	106	0.00
39 T	1,2-Dichloropropane	0.397	0.426	-7.3	110	0.00
40 T	1,4-Dioxane	0.181	0.196	-8.3	110	0.00
41 T	Tetrahydrofuran	0.460	0.495	-7.6	109	0.00
42 T	Bromodichloromethane	0.782	0.855	-9.3	107	0.00
43	Methyl Methacrylate	0.409	0.422	-3.2	100	0.00
44 T	2,2,4-Trimethylpentane	1.848	2.013	-8.9	111	0.00
45 T	t-1,3-Dichloropropene	0.406	0.394	3.0	93	0.00
46 T	cis-1,3-Dichloropropene	0.526	0.544	-3.4	97	0.00
47 T	1,1,2-Trichloroethane	0.403	0.425	-5.5	109	0.00
48 T	Dibromochloromethane	0.632	0.682	-7.9	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042095.D
 Acq On : 05 Mar 2025 08:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 06 01:02:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	0.549	0.593	-8.0	104	0.00
50 T	4-Methyl-2-Pentanone	1.008	1.204	-19.4	110	0.00
51 T	2-Hexanone	0.693	0.963	-39.0#	107	0.00
52 T	Tetrachloroethene	0.358	0.368	-2.8	104	0.00
53 T	Toluene	1.170	1.213	-3.7	103	0.00
54 T	1,2-Dibromoethane	0.545	0.566	-3.9	104	0.00
55 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
56	1,1,1,2-Tetrachloroethane	0.565	0.634	-12.2	110	0.00
57 T	Chlorobenzene	1.037	1.160	-11.9	111	0.00
58 T	Ethyl Benzene	1.842	1.983	-7.7	102	0.00
59 T	m/p-Xylene	1.466	1.633	-11.4	107	0.01
60 T	o-Xylene	1.473	1.642	-11.5	109	0.00
61 T	Styrene	0.693	0.752	-8.5	100	0.00
62	Isopropylbenzene	2.207	2.438	-10.5	108	0.00
63 T	1,1,2,2-Tetrachloroethane	0.970	1.109	-14.3	114	0.00
64	n-propylbenzene	0.579	0.652	-12.6	109	0.00
65	tert-Butylbenzene	2.008	2.160	-7.6	109	0.00
66 T	Benzyl Chloride	0.153	0.128	16.3	73	0.00
67	sec-Butylbenzene	2.872	3.115	-8.5	110	0.00
68 S	1-Bromo-4-Fluorobenzene	0.769	0.780	-1.4	89	0.00
69	p-Isopropyltoluene	2.285	2.568	-12.4	111	0.00
70	n-Butylbenzene	2.332	2.657	-13.9	112	0.00
71	2-Chlorotoluene	1.701	1.837	-8.0	106	0.00
72 T	4-Ethyltoluene	1.799	1.972	-9.6	106	0.00
73 T	1,3,5-Trimethylbenzene	1.560	1.679	-7.6	106	0.00
74 T	1,2,4-Trimethylbenzene	1.757	1.877	-6.8	111	0.00
75 T	1,3-Dichlorobenzene	1.011	1.094	-8.2	110	0.00
76 T	1,4-Dichlorobenzene	1.004	1.104	-10.0	112	0.00
77 T	1,2-Dichlorobenzene	0.981	1.097	-11.8	115	0.00
78 T	Hexachloro-1,3-Butadiene	0.764	0.773	-1.2	106	0.00
79 T	Naphthalene	1.205	1.692	-40.4#	108	0.00
80 T	Naphthalene,2-methyl-	0.330	0.598	-81.2#	93	0.00
81 T	1,2,4-Trichlorobenzene	0.671	0.762	-13.6	103	0.00

(#) = Out of Range

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042095.D
 Acq On : 05 Mar 2025 08:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 06 01:02:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Bromochloromethane	10.000	10.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	10.000	11.534	-15.3	131	0.00
3	Chlorodifluoromethane	10.000	10.249	-2.5	117	0.00
4	Chloromethane	10.000	10.855	-8.6	125	0.00
5 T	Vinyl Chloride	10.000	11.612	-16.1	129	0.00
6 T	Bromomethane	10.000	11.545	-15.4	128	0.00
7	Chloroethane	10.000	11.099	-11.0	125	0.00
8 T	Dichlorotetrafluoroethane	10.000	11.422	-14.2	129	0.00
9 T	Propene	10.000	10.301	-3.0	120	0.00
10 T	Heptane	10.000	9.637	3.6	110	0.00
11 T	Trichlorofluoromethane	10.000	11.984	-19.8	136	0.00
12 T	1,1,2-Trichlorotrifluoroeth	10.000	11.522	-15.2	141	0.00
13	Ethanol	10.000	6.375	36.3#	125	0.00
14 T	Bromoethene	10.000	11.452	-14.5	131	0.00
15 T	Acetone	10.000	10.599	-6.0	135	0.00
16 T	1,3-Butadiene	10.000	10.991	-9.9	130	0.00
17	tert-Butyl alcohol	10.000	9.678	3.2	116	0.00
18 T	1,1-Dichloroethene	10.000	10.714	-7.1	129	0.00
19 T	Isopropyl Alcohol	10.000	10.766	-7.7	134	0.00
20 T	Methylene Chloride	10.000	10.197	-2.0	134	0.00
21 T	Allyl Chloride	10.000	10.621	-6.2	130	0.00
22 T	trans-1,2-Dichloroethene	10.000	11.051	-10.5	139	0.00
23 T	Vinyl Acetate	10.000	8.935	10.6	110	0.00
24 T	1,1-Dichloroethane	10.000	11.356	-13.6	142	0.00
25 T	Ethyl Acetate	10.000	10.326	-3.3	118	0.00
26 T	Hexane	10.000	9.834	1.7	113	0.00
27 T	Carbon Disulfide	10.000	11.638	-16.4	135	0.00
28 T	Methyl tert-Butyl Ether	10.000	10.572	-5.7	148	0.00
29 T	Chloroform	10.000	9.940	0.6	114	0.00
30 T	Cyclohexane	10.000	9.461	5.4	105	0.00
31 T	cis-1,2-Dichloroethene	10.000	9.740	2.6	110	0.00
32 T	1,1,1-Trichloroethane	10.000	9.480	5.2	103	0.00
33 I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34 T	2-Butanone	10.000	11.356	-13.6	118	0.00
35 T	Carbon Tetrachloride	10.000	11.257	-12.6	109	0.00
36 T	Benzene	10.000	10.843	-8.4	108	0.00
37 T	1,2-Dichloroethane	10.000	10.932	-9.3	113	0.00
38 T	Trichloroethene	10.000	10.200	-2.0	106	0.00
39 T	1,2-Dichloropropane	10.000	10.712	-7.1	110	0.00
40 T	1,4-Dioxane	10.000	10.790	-7.9	110	0.00
41 T	Tetrahydrofuran	10.000	10.764	-7.6	109	0.00
42 T	Bromodichloromethane	10.000	10.931	-9.3	107	0.00
43	Methyl Methacrylate	10.000	10.334	-3.3	100	0.00
44 T	2,2,4-Trimethylpentane	10.000	10.896	-9.0	111	0.00
45 T	t-1,3-Dichloropropene	10.000	9.705	2.9	93	0.00
46 T	cis-1,3-Dichloropropene	10.000	10.358	-3.6	97	0.00
47 T	1,1,2-Trichloroethane	10.000	10.528	-5.3	109	0.00
48 T	Dibromochloromethane	10.000	10.789	-7.9	106	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042095.D
 Acq On : 05 Mar 2025 08:30
 Operator : SY/MD
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 LabSampleId :
 VSTDCCC010

Quant Time: Mar 06 01:02:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 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	10.816	-8.2	104	0.00
50 T	4-Methyl-2-Pentanone	10.000	11.951	-19.5	110	0.00
51 T	2-Hexanone	10.000	13.887	-38.9#	107	0.00
52 T	Tetrachloroethene	10.000	10.273	-2.7	104	0.00
53 T	Toluene	10.000	10.369	-3.7	103	0.00
54 T	1,2-Dibromoethane	10.000	10.373	-3.7	104	0.00
55 I	Chlorobenzene-d5	10.000	10.000	0.0	87	0.00
56	1,1,1,2-Tetrachloroethane	10.000	11.216	-12.2	110	0.00
57 T	Chlorobenzene	10.000	11.186	-11.9	111	0.00
58 T	Ethyl Benzene	10.000	10.766	-7.7	102	0.00
59 T	m/p-Xylene	20.000	22.289	-11.4	107	0.01
60 T	o-Xylene	10.000	11.145	-11.4	109	0.00
61 T	Styrene	10.000	10.850	-8.5	100	0.00
62	Isopropylbenzene	10.000	11.047	-10.5	108	0.00
63 T	1,1,2,2-Tetrachloroethane	10.000	11.432	-14.3	114	0.00
64	n-propylbenzene	10.000	11.265	-12.7	109	0.00
65	tert-Butylbenzene	10.000	10.756	-7.6	109	0.00
66 T	Benzyl Chloride	10.000	8.373	16.3	73	0.00
67	sec-Butylbenzene	10.000	10.846	-8.5	110	0.00
68 S	1-Bromo-4-Fluorobenzene	10.000	10.143	-1.4	89	0.00
69	p-Isopropyltoluene	10.000	11.238	-12.4	111	0.00
70	n-Butylbenzene	10.000	11.390	-13.9	112	0.00
71	2-Chlorotoluene	10.000	10.798	-8.0	106	0.00
72 T	4-Ethyltoluene	10.000	10.965	-9.6	106	0.00
73 T	1,3,5-Trimethylbenzene	10.000	10.759	-7.6	106	0.00
74 T	1,2,4-Trimethylbenzene	10.000	10.683	-6.8	111	0.00
75 T	1,3-Dichlorobenzene	10.000	10.814	-8.1	110	0.00
76 T	1,4-Dichlorobenzene	10.000	10.991	-9.9	112	0.00
77 T	1,2-Dichlorobenzene	10.000	11.182	-11.8	115	0.00
78 T	Hexachloro-1,3-Butadiene	10.000	10.118	-1.2	106	0.00
79 T	Naphthalene	10.000	14.043	-40.4#	108	0.00
80 T	Naphthalene,2-methyl-	10.000	18.124	-81.2#	93	0.00
81 T	1,2,4-Trichlorobenzene	10.000	11.342	-13.4	103	0.00

(#) = Out of Range

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



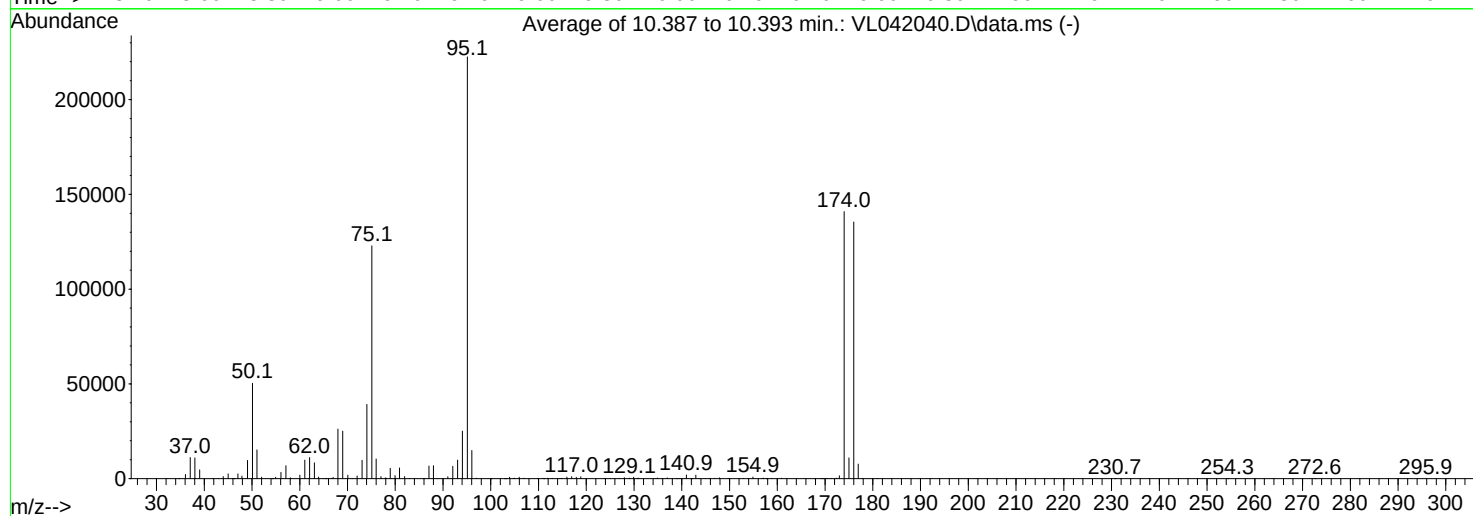
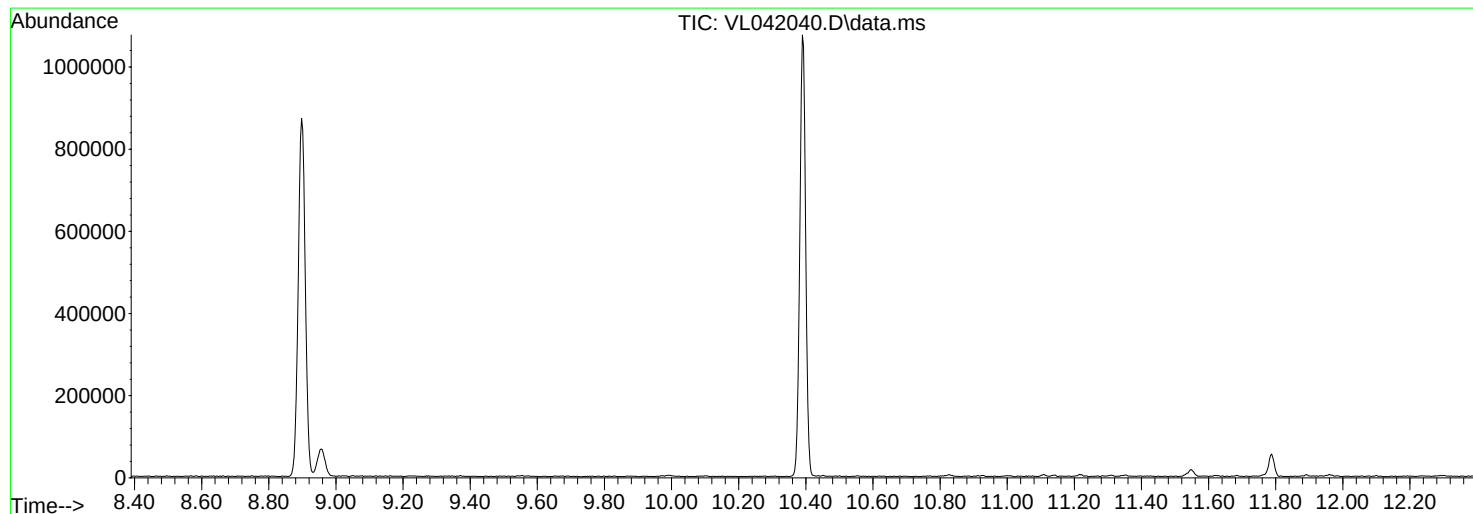
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL022525\
 Data File : VL042040.D
 Acq On : 25 Feb 2025 07:56
 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\VL022525AIR.M
 Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.6	50320	PASS
75	95	30	66	55.2	122859	PASS
95	95	100	100	100.0	222571	PASS
96	95	5	9	6.7	14875	PASS
173	174	0.00	2	1.1	1534	PASS
174	95	50	120	63.3	140957	PASS
175	174	4	9	7.8	11014	PASS
176	174	93	101	96.1	135437	PASS
177	176	5	9	5.7	7676	PASS

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
34.70	28	47.05	2526	58.05	414	68.00	2618
36.05	2223	47.90	1374	60.00	1900	69.00	2505
37.05	11140	49.05	9623	61.05	9827	70.05	185
38.05	10945	50.10	50320	62.05	11140	71.00	6
39.05	4647	51.05	15242	63.05	8365	72.00	1450
41.85	112	52.00	740	63.95	890	73.05	9731
43.00	126	54.30	17	64.95	122	74.05	39184
43.95	1131	54.95	752	65.40	22	75.10	122859
45.00	2511	56.05	3327	66.10	82	76.00	10406
45.90	77	57.10	6812	66.70	141	77.00	1084
46.20	45	57.90	131	67.00	689	77.90	437

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
78.10	265	91.00	978	103.95	765	114.85	144
78.95	5465	92.05	6469	104.70	49	115.95	842
79.95	1631	93.05	9774	105.00	247	116.95	1016
80.90	5642	94.05	25088	105.95	752	117.90	687
81.95	1083	95.10	222571	106.95	295	118.85	1016
82.95	188	96.05	14875	109.80	139	123.80	72
85.80	135	97.00	284	110.90	160	124.00	81
86.20	121	99.90	37	111.10	25	125.10	63
87.05	6697	100.10	27	111.95	220	126.90	143
88.00	6841	102.90	35	112.85	148	127.95	520
88.80	63	103.20	35	114.50	51	129.05	303

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
129.90	788	140.95	1984	150.00	105	167.80	25
130.70	187	141.90	37	152.90	126	169.10	103
130.95	248	142.05	44	153.85	131	169.40	46
134.60	83	142.95	1834	154.90	850	169.95	64
134.95	371	143.65	110	156.00	119	170.40	64
135.90	48	144.95	99	156.85	134	170.60	88
136.95	394	145.75	130	157.10	226	171.25	175
138.90	30	146.00	95	157.70	18	171.90	106
139.50	84	146.85	213	158.00	51	172.40	228
139.90	68	147.90	442	158.90	147	173.00	1534
140.10	99	149.70	178	160.90	256	174.00	140957

Average of 10.387 to 10.393 min.: VL042040.D\data.ms

BFB

Modified:subtracted

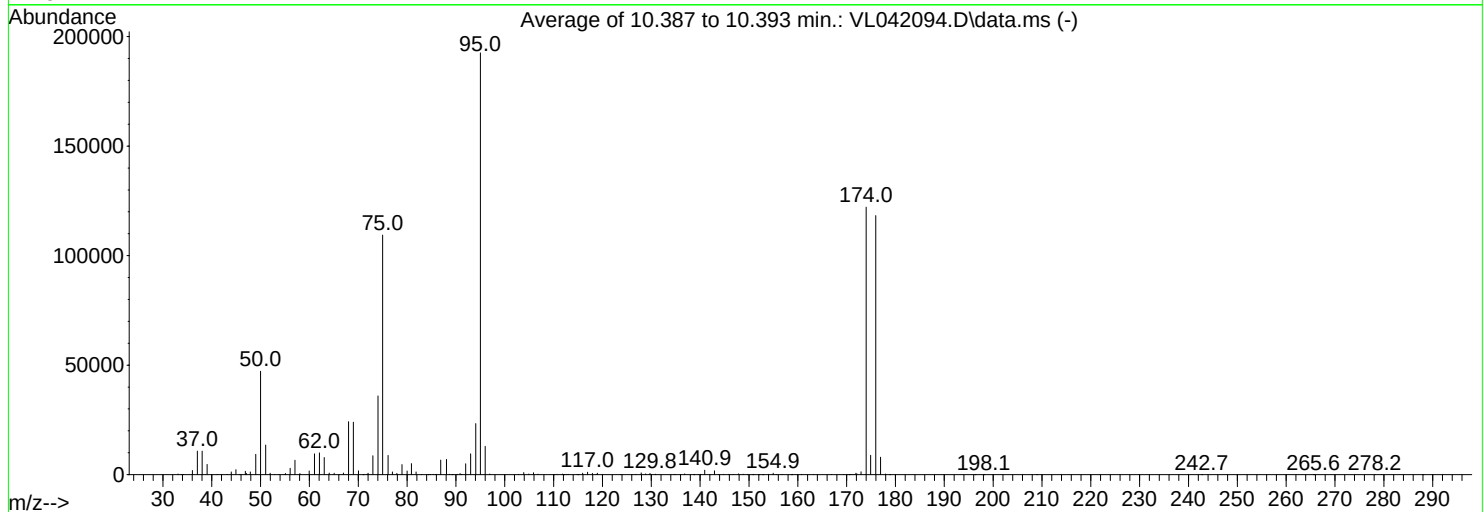
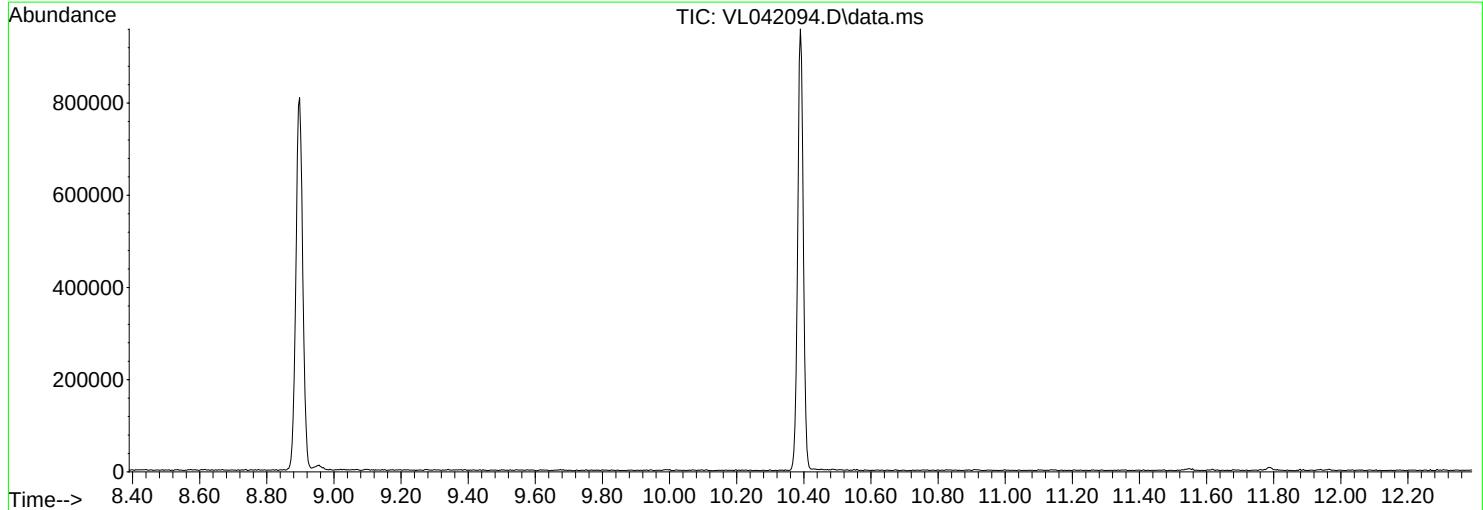
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	11014						
176.00	135437						
176.95	7676						
177.90	161						
180.95	55						
230.70	27						
231.90	20						
254.30	36						
272.60	20						
295.85	67						

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
Data File : VL042094.D
Acq On : 05 Mar 2025 07:48
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\VL022525AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.5	47221	PASS
75	95	30	66	56.8	109403	PASS
95	95	100	100	100.0	192597	PASS
96	95	5	9	6.7	12955	PASS
173	174	0.00	2	1.1	1355	PASS
174	95	50	120	63.4	122160	PASS
175	174	4	9	7.2	8822	PASS
176	174	93	101	96.8	118272	PASS
177	176	5	9	6.8	8001	PASS

Average of 10.387 to 10.393 min.: VL042094.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	311	44.95	2292	53.70	80	65.05	691
33.75	46	45.70	53	54.80	135	66.10	91
34.20	46	45.95	170	55.10	505	66.95	711
36.05	1889	46.90	1504	56.05	2942	68.00	2418
37.05	10775	47.10	550	57.05	6564	69.00	23955
38.05	10756	47.90	1278	58.05	527	70.05	1729
39.05	4702	49.00	9251	59.95	1674	71.00	18
41.10	113	50.00	47221	61.05	9535	71.80	212
42.00	55	51.05	13512	62.05	9916	72.00	637
43.15	167	51.95	640	63.05	7808	73.00	8644
44.00	1229	52.90	75	64.05	748	74.05	35981

Average of 10.387 to 10.393 min.: VL042094.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
75.00	109403	85.35	119	93.00	9487	110.70	149
76.10	8743	85.80	68	94.05	23312	111.80	267
77.00	1276	86.00	154	95.00	192597	112.10	37
77.90	602	86.90	6677	96.00	12955	112.70	50
78.95	4612	88.05	6928	96.95	285	112.95	177
80.00	1664	88.70	143	102.85	137	114.80	161
80.90	5071	89.20	17	103.90	924	115.00	21
81.85	1260	90.25	129	104.95	326	115.95	695
83.00	93	90.85	537	105.90	884	116.95	1126
84.30	23	91.10	187	106.80	231	117.95	591
84.80	99	92.00	4979	110.00	18	118.70	149

Average of 10.387 to 10.393 min.: VL042094.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
118.95	675	135.95	46	146.75	69	156.75	191
123.65	82	136.85	350	147.90	394	158.70	37
124.00	55	138.70	21	148.80	212	158.95	134
126.05	61	139.70	87	149.75	185	160.05	63
126.85	127	140.10	126	150.80	29	160.80	157
127.95	787	140.95	2020	152.00	34	163.20	47
128.85	355	142.00	58	152.80	33	166.90	72
129.75	594	142.95	1781	153.05	60	169.40	93
130.90	247	143.80	45	154.00	156	170.10	94
134.70	185	144.85	188	154.95	640	170.50	34
134.90	70	145.85	172	155.70	51	170.85	93

Average of 10.387 to 10.393 min.: VL042094.D\data.ms

BFB

Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
171.10	64	196.30	24				
171.50	56	198.10	33				
171.90	639	208.90	19				
172.10	401	242.70	29				
172.95	1355	265.60	29				
174.00	122160	278.20	111				
174.90	8822	279.50	70				
175.95	118272	288.00	23				
176.95	8001						
177.95	308						
178.80	32						

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	
Client Sample ID:	VL0305ABL01	SDG No.:	Q1483
Lab Sample ID:	VL0305ABL01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042096.D	1		03/05/25 10:05	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.50			65 - 135	95%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	158000		2.797			
540-36-3	1,4-Difluorobenzene	359000		3.972			
3114-55-4	Chlorobenzene-d5	301000		8.898			

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042096.D
 Acq On : 05 Mar 2025 10:05
 Operator : SY/MD
 Sample : VL0305ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0305ABL01

Quant Time: Mar 06 01:03:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 26 01:08:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.797	49	157535	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.972	114	359252	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	301482	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	219602	9.468	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.700%

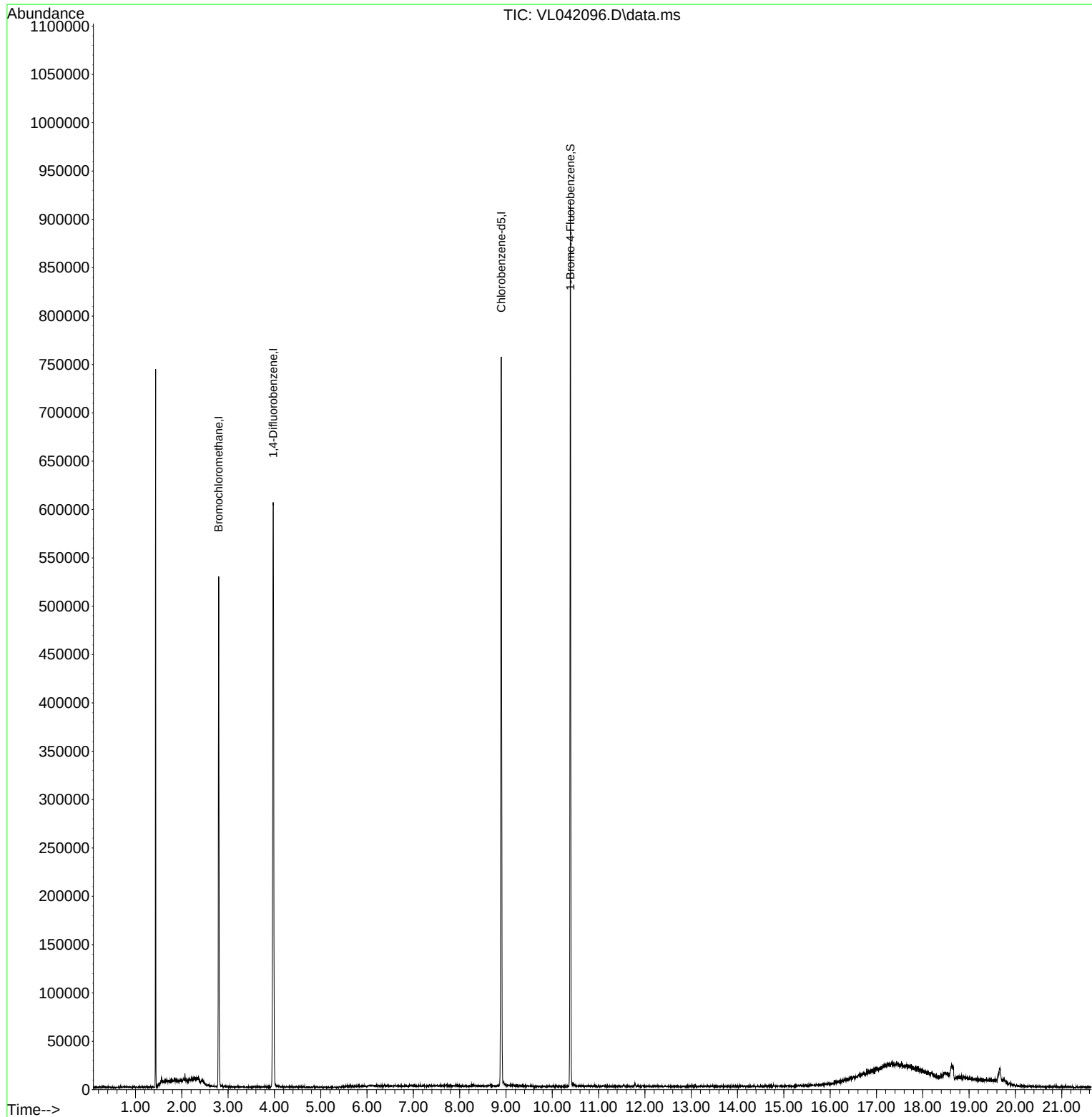
Target Compounds	Qvalue

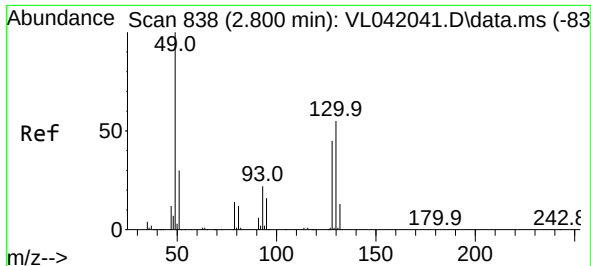
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
Data File : VL042096.D
Acq On : 05 Mar 2025 10:05
Operator : SY/MD
Sample : VL0305ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0305ABL01

Quant Time: Mar 06 01:03:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 26 01:08:36 2025
Response via : Initial Calibration

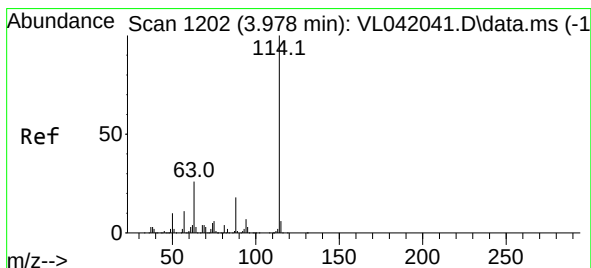
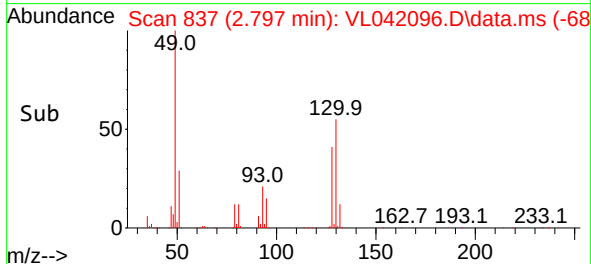
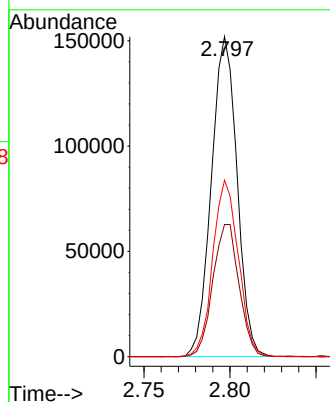
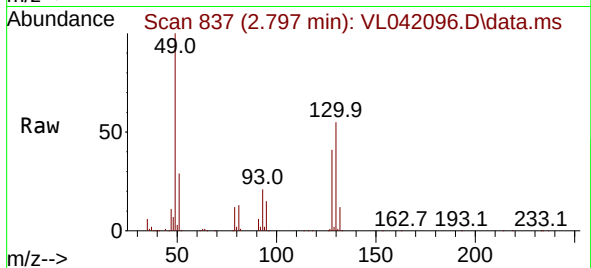




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.797 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL042096.D
Acq: 05 Mar 2025 10:05

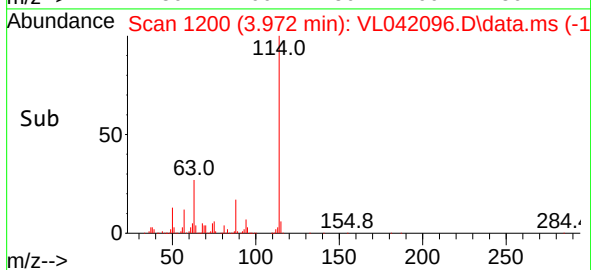
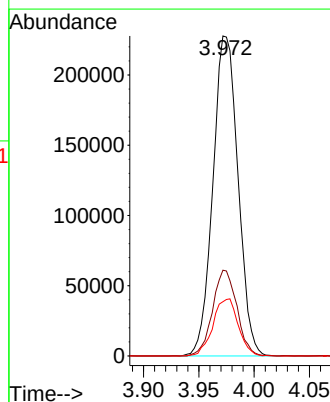
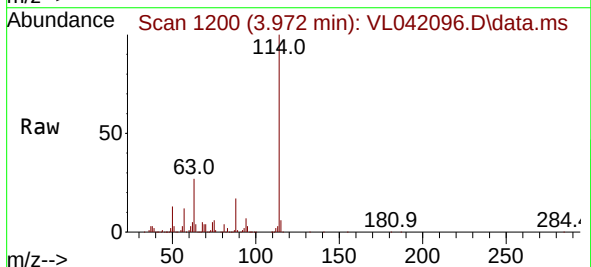
Instrument :
MSVOA_L
ClientSampleId :
VL0305ABL01

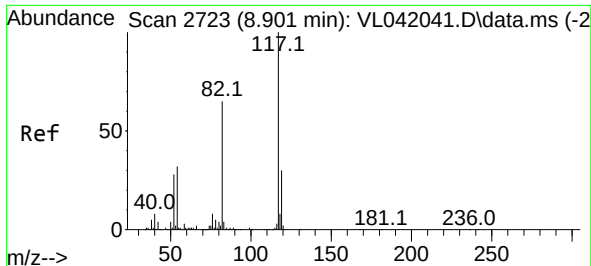
Tgt Ion: 49 Resp: 157535
Ion Ratio Lower Upper
49 100
128 42.3 21.6 64.8
130 55.0 27.8 83.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.972 min Scan# 1200
Delta R.T. -0.006 min
Lab File: VL042096.D
Acq: 05 Mar 2025 10:05

Tgt Ion: 114 Resp: 359252
Ion Ratio Lower Upper
114 100
63 26.0 20.1 30.1
88 18.0 14.3 21.5

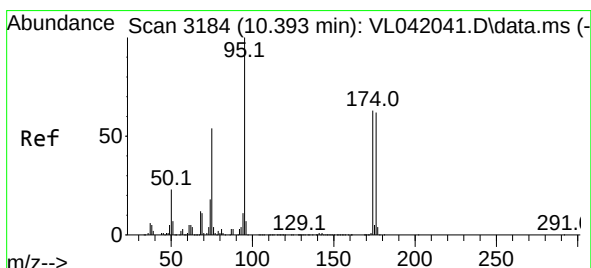
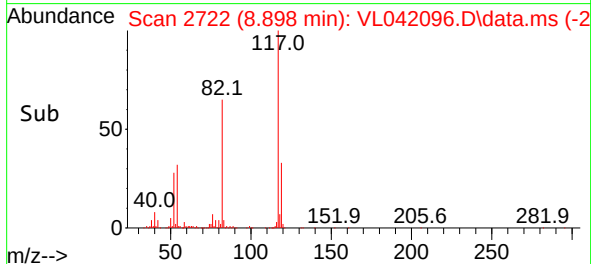
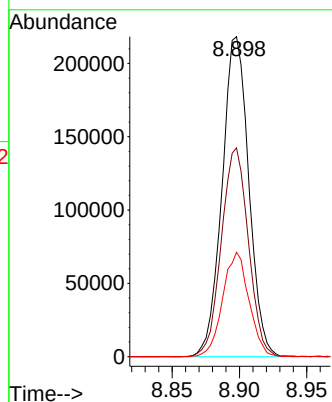
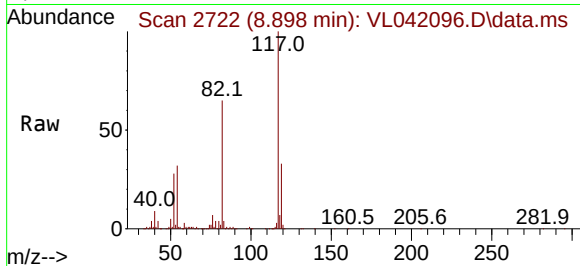




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042096.D
Acq: 05 Mar 2025 10:05

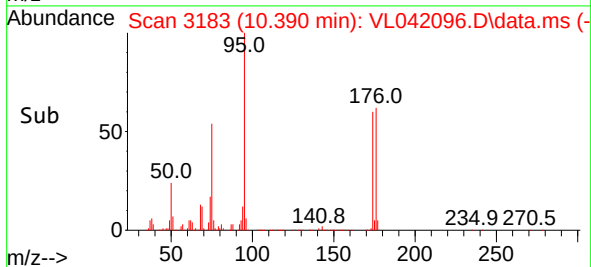
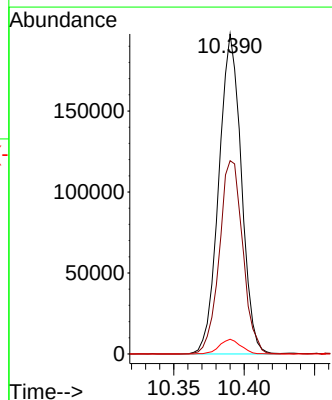
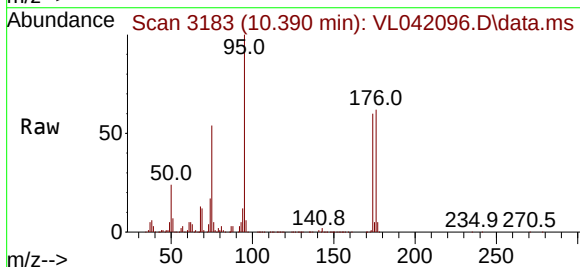
Instrument :
MSVOA_L
ClientSampleId :
VL0305ABL01

Tgt Ion:117 Resp: 301482
Ion Ratio Lower Upper
117 100
82 66.0 55.0 82.6
119 32.1 25.9 38.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.468 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. -0.003 min
Lab File: VL042096.D
Acq: 05 Mar 2025 10:05

Tgt Ion: 95 Resp: 219602
Ion Ratio Lower Upper
95 100
174 63.0 51.8 77.6
175 4.4 3.9 5.9



Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	97-36 63rd Rd, Rego Park NY	Date Received:	
Client Sample ID:	VL0305ABS01	SDG No.:	Q1483
Lab Sample ID:	VL0305ABS01	Matrix:	Air
Analytical Method:	TO-15	Test:	VOCMS Group3
Sample Wt/Vol:	400	Units:	mL

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VL042097.D	1		03/05/25 10:47	VL030525

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	11.9	30.4		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	10.9	43.2		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	9.80	38.9		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	9.80	53.5		0.050	0.16	ug/m3
79-01-6	Trichloroethene	10.3	55.4		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	10.6	71.9		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.3			65 - 135	103%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	160000		2.8			
540-36-3	1,4-Difluorobenzene	380000		3.982			
3114-55-4	Chlorobenzene-d5	317000		8.905			

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\VL030525\
 Data File : VL042097.D
 Acq On : 05 Mar 2025 10:47
 Operator : SY/MD
 Sample : VL0305ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0305ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:04:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

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

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.800	49	160352	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.982	114	379500	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.905	117	316612	10.000	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 251469 10.324 ppbv 0.00
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.200%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.506	85	194657	11.674	ppbv	99
3) Chlorodifluoromethane	1.483	51	246359	10.571	ppbv	99
4) Chloromethane	1.538	50	71171	11.542	ppbv	99
5) Vinyl Chloride	1.586	62	69130	11.852	ppbv	100
6) Bromomethane	1.674	94	33128	11.928	ppbv	97
7) Chloroethane	1.713	64	27759	11.713	ppbv	89
8) Dichlorotetrafluoroethane	1.561	85	162757	11.874	ppbv	99
9) Propene	1.489	41	96352	10.148	ppbv	99
10) Heptane	5.008	43	298220	10.088	ppbv	98
11) Trichlorofluoromethane	1.884	101	205498	12.300	ppbv	99
12) 1,1,2-Trichlorotrifluo...	2.150	101	160708	12.058	ppbv	95
13) Ethanol	1.729	45	4072	6.756	ppbv	81
14) Bromoethene	1.790	108	55379	11.767	ppbv	98
15) Acetone	1.842	43	157750	11.140	ppbv	99
16) 1,3-Butadiene	1.616	39	75573	11.468	ppbv	100
17) tert-Butyl alcohol	2.049	59	177011	9.991	ppbv	98
18) 1,1-Dichloroethene	2.043	96	65470	10.872	ppbv	94
19) Isopropyl Alcohol	1.894	45	86867	10.679	ppbv	97
20) Methylene Chloride	2.072	84	56501	10.548	ppbv	96
21) Allyl Chloride	2.108	41	115415	11.280	ppbv	98
22) trans-1,2-Dichloroethene	2.350	96	79822	11.370	ppbv	93
23) Vinyl Acetate	2.473	43	92207	9.260	ppbv #	96
24) 1,1-Dichloroethane	2.418	63	153850	11.778	ppbv	99
25) Ethyl Acetate	2.852	43	597115	10.535	ppbv	99
26) Hexane	2.839	57	232377	10.141	ppbv	96
27) Carbon Disulfide	2.159	76	186159	11.984	ppbv	97
28) Methyl tert-Butyl Ether	2.454	73	151716	13.299	ppbv	97
29) Chloroform	2.862	83	313061	10.151	ppbv	100
30) Cyclohexane	3.878	84	179953	9.675	ppbv	95
31) cis-1,2-Dichloroethene	2.735	61	213357	9.836	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	292336	9.772	ppbv	96
34) 2-Butanone	2.570	43	333123	11.267	ppbv	98
35) Carbon Tetrachloride	3.781	117	297817	11.380	ppbv	98
36) Benzene	3.677	78	435850	10.971	ppbv	98
37) 1,2-Dichloroethane	3.237	62	240492	10.918	ppbv	98
38) Trichloroethene	4.574	130	166781	10.281	ppbv	94
39) 1,2-Dichloropropane	4.338	63	162248	10.760	ppbv	96
40) 1,4-Dioxane	4.613	88	75498	10.968	ppbv #	99
41) Tetrahydrofuran	3.072	42	191294	10.950	ppbv	97
42) Bromodichloromethane	4.516	83	326265	10.994	ppbv	97
43) Methyl Methacrylate	4.907	69	166024	10.701	ppbv	97
44) 2,2,4-Trimethylpentane	4.668	57	785565	11.204	ppbv	98
45) t-1,3-Dichloropropene	6.451	75	148287	9.620	ppbv	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL030525\
 Data File : VL042097.D
 Acq On : 05 Mar 2025 10:47
 Operator : SY/MD
 Sample : VL0305ABS01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0305ABS01

Manual Integrations
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/06/2025
 Supervised By :Mahesh Dadoda 03/06/2025

Quant Time: Mar 06 01:04:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.636	75	207033	10.379	ppbv	95
47) 1,1,2-Trichloroethane	6.613	97	167793	10.961	ppbv	99
48) Dibromochloromethane	7.412	129	262758	10.959	ppbv	99
49) Bromoform	9.503	173	229272	11.011	ppbv	99
50) 4-Methyl-2-Pentanone	5.788	43	461338	12.065	ppbv	97
51) 2-Hexanone	7.464	43	369072	14.024	ppbv #	97
52) Tetrachloroethene	8.247	164	144742	10.642	ppbv	96
53) Toluene	6.963	91	468447	10.551	ppbv	98
54) 1,2-Dibromoethane	7.678	107	222200	10.736	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.947	131	209934	11.731	ppbv	100
57) Chlorobenzene	8.943	112	381160	11.611	ppbv	98
58) Ethyl Benzene	9.377	91	646635	11.090	ppbv	99
59) m/p-Xylene	9.571	91	1072581m	23.115	ppbv	
60) o-Xylene	9.986	91	535123	11.472	ppbv	99
61) Styrene	9.888	104	240915	10.985	ppbv	100
62) Isopropylbenzene	10.558	105	794251	11.369	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.982	83	371615	12.097	ppbv	98
64) n-propylbenzene	11.005	120	214049	11.681	ppbv	99
65) tert-Butylbenzene	11.549	119	716249	11.265	ppbv	100
66) Benzyl Chloride	11.633	91	42880	8.838	ppbv	98
67) sec-Butylbenzene	11.785	105	1032923	11.360	ppbv	99
69) p-Isopropyltoluene	11.944	119	841604	11.633	ppbv	99
70) n-Butylbenzene	12.297	91	863719	11.696	ppbv	99
71) 2-Chlorotoluene	10.921	91	601798	11.174	ppbv	100
72) 4-Ethyltoluene	11.141	105	656733	11.531	ppbv	99
73) 1,3,5-Trimethylbenzene	11.219	105	555629	11.246	ppbv	99
74) 1,2,4-Trimethylbenzene	11.552	105	619811	11.141	ppbv	92
75) 1,3-Dichlorobenzene	11.623	146	369651	11.545	ppbv	98
76) 1,4-Dichlorobenzene	11.688	146	367199	11.551	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	359930	11.584	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	250988	10.382	ppbv	99
79) Naphthalene	13.530	128	548544	14.380	ppbv	99
80) Naphthalene,2-methyl-	14.472	142	194094	18.593	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	246986	11.618	ppbv	99

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

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL042041.D	m/p-Xylene	MMDadoda	3/6/2025 1:12:13 AM	SAM	3/6/2025 1:24:10 AM	Peak Integrated by Software
VSTDICCC002	VL042042.D	m/p-Xylene	SAM	2/26/2025 7:41:55 AM	MMDadoda	2/26/2025 1:45:07 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	1,4-Dioxane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Benzyl Chloride	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Ethanol	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	Heptane	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	m/p-Xylene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC001	VL042043.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:26 AM	MMDadoda	2/26/2025 1:45:09 PM	Peak Integrated by Software
VSTDICCC0.5	VL042044.D	1,1,2-Trichloroethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL042044.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,2-Dichloropropane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	1,4-Dioxane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	2-Hexanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	4-Methyl-2-Pentanone	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	cis-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	Dibromochloromethane	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	m/p-Xylene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	t-1,3-Dichloropropene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.5	VL042044.D	trans-1,2-Dichloroethene	SAM	2/26/2025 7:42:02 AM	MMDadoda	2/26/2025 1:45:11 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	1,2-Dibromoethane	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Carbon Tetrachloride	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl022525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL042045.D	Tetrachloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.1	VL042045.D	Trichloroethene	SAM	2/26/2025 7:42:22 AM	MMDadoda	2/26/2025 1:45:12 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,1-Trichloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	1,1,2,2-Tetrachloroethane	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Carbon Tetrachloride	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Tetrachloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC0.03	VL042046.D	Trichloroethene	SAM	2/26/2025 7:43:48 AM	MMDadoda	2/26/2025 1:45:14 PM	Peak Integrated by Software
VSTDICC015	VL042047.D	m/p-Xylene	SAM	2/26/2025 7:42:16 AM	MMDadoda	2/26/2025 1:45:16 PM	Peak Integrated by Software
VSTDICV010	VL042048.D	m/p-Xylene	SAM	2/26/2025 7:42:09 AM	MMDadoda	2/26/2025 1:45:17 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	VL030525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC010	VL042095.D	cis-1,3-Dichloropropene	SAM	3/6/2025 11:01:14 AM	MMDadoda	3/6/2025 2:58:27 PM	Peak Integrated by Software
VSTDCCC010	VL042095.D	m/p-Xylene	SAM	3/6/2025 11:01:14 AM	MMDadoda	3/6/2025 2:58:27 PM	Peak Integrated by Software
VL0305ABS01	VL042097.D	m/p-Xylene	SAM	3/6/2025 11:01:19 AM	MMDadoda	3/6/2025 2:58:22 PM	Peak Integrated by Software
Q1483-01	VL042098.D	2-Butanone	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	Carbon Tetrachloride	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	Chlorodifluoromethane	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	cis-1,2-Dichloroethene	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	Hexane	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	m/p-Xylene	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	Propene	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	Toluene	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01	VL042098.D	Trichloroethene	SAM	3/6/2025 11:01:23 AM	MMDadoda	3/6/2025 2:58:19 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	Benzene	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

VL030525

Instrument

MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1483-01DUP	VL042099.D	Chlorodifluoromethane	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	cis-1,2-Dichloroethene	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	m/p-Xylene	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	Propene	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	tert-Butyl alcohol	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	Toluene	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-01DUP	VL042099.D	Trichloroethene	SAM	3/6/2025 11:29:12 AM	MMDadoda	3/6/2025 2:58:14 PM	Peak Integrated by Software
Q1483-02	VL042100.D	Bromoform	SAM	3/6/2025 11:32:05 AM	MMDadoda	3/6/2025 2:58:13 PM	Peak Integrated by Software
Q1483-02	VL042100.D	Carbon Tetrachloride	SAM	3/6/2025 11:32:05 AM	MMDadoda	3/6/2025 2:58:13 PM	Peak Integrated by Software
Q1483-02	VL042100.D	Heptane	SAM	3/6/2025 11:32:05 AM	MMDadoda	3/6/2025 2:58:13 PM	Peak Integrated by Software
Q1483-02	VL042100.D	m/p-Xylene	SAM	3/6/2025 11:32:05 AM	MMDadoda	3/6/2025 2:58:13 PM	Peak Integrated by Software
Q1483-02	VL042100.D	Propene	SAM	3/6/2025 11:32:05 AM	MMDadoda	3/6/2025 2:58:13 PM	Peak Integrated by Software
Q1483-02	VL042100.D	Tetrahydrofuran	SAM	3/6/2025 11:32:05 AM	MMDadoda	3/6/2025 2:58:13 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	vl030525	Instrument	MSVOA_I
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Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1483-05	VL042101.D	Carbon Tetrachloride	SAM	3/6/2025 11:31:29 AM	MMDadoda	3/6/2025 2:58:15 PM	Peak Integrated by Software
Q1483-05	VL042101.D	Chlorodifluoromethane	SAM	3/6/2025 11:31:29 AM	MMDadoda	3/6/2025 2:58:15 PM	Peak Integrated by Software
Q1483-05	VL042101.D	Heptane	SAM	3/6/2025 11:31:29 AM	MMDadoda	3/6/2025 2:58:15 PM	Peak Integrated by Software
Q1483-05	VL042101.D	Tetrachloroethene	SAM	3/6/2025 11:31:29 AM	MMDadoda	3/6/2025 2:58:15 PM	Peak Integrated by Software
Q1483-02DL	VL042105.D	2-Butanone	SAM	3/6/2025 11:32:15 AM	MMDadoda	3/6/2025 2:58:03 PM	Peak Integrated by Software
Q1483-02DL	VL042105.D	Methyl Methacrylate	SAM	3/6/2025 11:32:15 AM	MMDadoda	3/6/2025 2:58:03 PM	Peak Integrated by Software
Q1483-02DL	VL042105.D	Propene	SAM	3/6/2025 11:32:15 AM	MMDadoda	3/6/2025 2:58:03 PM	Peak Integrated by Software
Q1483-02DL	VL042105.D	Trichloroethene	SAM	3/6/2025 11:32:15 AM	MMDadoda	3/6/2025 2:58:03 PM	Peak Integrated by Software
Q1483-05DL	VL042106.D	Trichloroethene	SAM	3/6/2025 11:31:35 AM	MMDadoda	3/6/2025 2:58:06 PM	Peak Integrated by Software
Q1483-06	VL042108.D	trans-1,2-Dichloroethene	SAM	3/6/2025 11:31:39 AM	MMDadoda	3/6/2025 2:58:04 PM	Peak Integrated by Software
Q1483-06	VL042108.D	Trichloroethene	SAM	3/6/2025 11:31:39 AM	MMDadoda	3/6/2025 2:58:04 PM	Peak Integrated by Software
Q1483-03	VL042110.D	Ethanol	SAM	3/6/2025 11:31:44 AM	MMDadoda	3/6/2025 2:57:55 PM	Peak Integrated by Software
Q1483-03	VL042110.D	trans-1,2-Dichloroethene	SAM	3/6/2025 11:31:44 AM	MMDadoda	3/6/2025 2:57:55 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VI030525

Instrument

MSVOA_I

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QCBatch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM		
Supervise By	Mahesh Dadoda	Supervise On	2/26/2025 1:45:21 PM		
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2576			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2576			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042040.D	25 Feb 2025 07:56	SY/MD	Ok
2	VSTDICCC010	VL042041.D	25 Feb 2025 08:56	SY/MD	Ok,M
3	VSTDICCC002	VL042042.D	25 Feb 2025 09:29	SY/MD	Ok,M
4	VSTDICCC001	VL042043.D	25 Feb 2025 10:00	SY/MD	Ok,M
5	VSTDICCC0.5	VL042044.D	25 Feb 2025 10:31	SY/MD	Ok,M
6	VSTDICCC0.1	VL042045.D	25 Feb 2025 11:03	SY/MD	Ok,M
7	VSTDICCC0.03	VL042046.D	25 Feb 2025 11:34	SY/MD	Ok,M
8	VSTDICCC015	VL042047.D	25 Feb 2025 12:07	SY/MD	Ok,M
9	VSTDICV010	VL042048.D	25 Feb 2025 13:15	SY/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_L**

Daily Analysis Runlog For Sequence/QC Batch ID # VL030525

Review By	Semsettin Yesilyurt	Review On	3/6/2025 11:32:49 AM		
Supervise By	Maresh Dadoda	Supervise On	3/6/2025 2:59:17 PM		
SubDirectory	VL030525	HP Acquire Method	TO15AIR.M	HP Processing Method	VL022525AIR.M
STD. NAME		STD REF.#			
Tune/Reschk		AP2587			
Initial Calibration Stds		AP2582,AP2584,AP2585			
CCC		AP2582			
Internal Standard/PEM		AP2587			
ICV/I.BLK		AP2586			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL042094.D	05 Mar 2025 07:48	SY/MD	Ok
2	VSTDCCC010	VL042095.D	05 Mar 2025 08:30	SY/MD	Ok,M
3	VL0305ABL01	VL042096.D	05 Mar 2025 10:05	SY/MD	Ok
4	VL0305ABS01	VL042097.D	05 Mar 2025 10:47	SY/MD	Ok,M
5	Q1483-01	VL042098.D	05 Mar 2025 11:37	SY/MD	Ok,M
6	Q1483-01DUP	VL042099.D	05 Mar 2025 12:11	SY/MD	Ok,M
7	Q1483-02	VL042100.D	05 Mar 2025 12:45	SY/MD	Dilution
8	Q1483-05	VL042101.D	05 Mar 2025 13:16	SY/MD	Dilution
9	Q1483-05	VL042102.D	05 Mar 2025 13:47	SY/MD	Not Ok
10	VIBLK	VL042103.D	05 Mar 2025 14:18	SY/MD	Ok,M
11	VIBLK	VL042104.D	05 Mar 2025 14:57	SY/MD	Ok,M
12	Q1483-02DL	VL042105.D	05 Mar 2025 15:37	SY/MD	Ok,M
13	Q1483-05DL	VL042106.D	05 Mar 2025 16:28	SY/MD	Ok,M
14	VIBLK	VL042107.D	05 Mar 2025 16:59	SY/MD	Ok
15	Q1483-06	VL042108.D	05 Mar 2025 17:31	SY/MD	Ok,M
16	VIBLK	VL042109.D	05 Mar 2025 18:02	SY/MD	Ok
17	Q1483-03	VL042110.D	05 Mar 2025 18:34	SY/MD	Ok,M
18	VIBLK	VL042111.D	05 Mar 2025 19:05	SY/MD	Ok,M
19	Q1483-04	VL042112.D	05 Mar 2025 19:37	SY/MD	Ok
20	VIBLK	VL042113.D	05 Mar 2025 20:08	SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL022525

Review By	Semsettin Yesilyurt	Review On	2/26/2025 8:27:25 AM
Supervise By	Maresh Dadoda	Supervise On	2/26/2025 1:45:21 PM
SubDirectory	VL022525	HP Acquire Method	TO15AIR.M HP Processing Method VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2576
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2576
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042040.D	25 Feb 2025 07:56		SY/MD	Ok
2	VSTDICCC010	VSTDICCC010	VL042041.D	25 Feb 2025 08:56		SY/MD	Ok,M
3	VSTDICC002	VSTDICC002	VL042042.D	25 Feb 2025 09:29		SY/MD	Ok,M
4	VSTDICC001	VSTDICC001	VL042043.D	25 Feb 2025 10:00		SY/MD	Ok,M
5	VSTDICC0.5	VSTDICC0.5	VL042044.D	25 Feb 2025 10:31		SY/MD	Ok,M
6	VSTDICC0.1	VSTDICC0.1	VL042045.D	25 Feb 2025 11:03		SY/MD	Ok,M
7	VSTDICC0.03	VSTDICC0.03	VL042046.D	25 Feb 2025 11:34		SY/MD	Ok,M
8	VSTDICC015	VSTDICC015	VL042047.D	25 Feb 2025 12:07		SY/MD	Ok,M
9	VSTDICV010	ICVVL022525	VL042048.D	25 Feb 2025 13:15		SY/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL030525

Review By	Semsettin Yesilyurt	Review On	3/6/2025 11:32:49 AM
Supervise By	Maresh Dadoda	Supervise On	3/6/2025 2:59:17 PM
SubDirectory	VL030525	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2587
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2587
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL042094.D	05 Mar 2025 07:48		SY/MD	Ok
2	VSTDCCC010	VSTDCCC010	VL042095.D	05 Mar 2025 08:30		SY/MD	Ok,M
3	VL0305ABL01	VL0305ABL01	VL042096.D	05 Mar 2025 10:05		SY/MD	Ok
4	VL0305ABS01	VL0305ABS01	VL042097.D	05 Mar 2025 10:47		SY/MD	Ok,M
5	Q1483-01	IA1	VL042098.D	05 Mar 2025 11:37		SY/MD	Ok,M
6	Q1483-01DUP	IA1DUP	VL042099.D	05 Mar 2025 12:11		SY/MD	Ok,M
7	Q1483-02	IA2	VL042100.D	05 Mar 2025 12:45	Need 8X	SY/MD	Dilution
8	Q1483-05	SV3	VL042101.D	05 Mar 2025 13:16	Need 1200X	SY/MD	Dilution
9	Q1483-05	SV3	VL042102.D	05 Mar 2025 13:47	Need further dilution	SY/MD	Not Ok
10	VIBLK	VIBLK	VL042103.D	05 Mar 2025 14:18		SY/MD	Ok,M
11	VIBLK	VIBLK	VL042104.D	05 Mar 2025 14:57		SY/MD	Ok,M
12	Q1483-02DL	IA2DL	VL042105.D	05 Mar 2025 15:37		SY/MD	Ok,M
13	Q1483-05DL	SV3DL	VL042106.D	05 Mar 2025 16:28	repoert E flag see non conformance	SY/MD	Ok,M
14	VIBLK	VIBLK	VL042107.D	05 Mar 2025 16:59		SY/MD	Ok
15	Q1483-06	SV4	VL042108.D	05 Mar 2025 17:31	repoert E flag	SY/MD	Ok,M
16	VIBLK	VIBLK	VL042109.D	05 Mar 2025 18:02		SY/MD	Ok
17	Q1483-03	SV1	VL042110.D	05 Mar 2025 18:34	repoert E flag	SY/MD	Ok,M

Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QC Batch ID # VL030525

Review By	Semsettin Yesilyurt	Review On	3/6/2025 11:32:49 AM
Supervise By	Maresh Dadoda	Supervise On	3/6/2025 2:59:17 PM
SubDirectory	VL030525	HP Acquire Method	TO15AIR.M
		HP Processing Method	VL022525AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2587
Initial Calibration Stds	AP2582,AP2584,AP2585
CCC	AP2582
Internal Standard/PEM	AP2587
ICV/I.BLK	AP2586
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	VIBLK	VIBLK	VL042111.D	05 Mar 2025 19:05		SY/MD	Ok,M
19	Q1483-04	SV2	VL042112.D	05 Mar 2025 19:37	repoert E flag	SY/MD	Ok
20	VIBLK	VIBLK	VL042113.D	05 Mar 2025 20:08		SY/MD	Ok,M

M : Manual Integration

Client Contact Information		Bottle Order ID : B2502047		Courier : F. Galdun		2 of 6 COCs																											
Client ID : GFEL01		Project ID : 10-15-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100		Sampler Name(s) : FRANK GALDUN		Analysis Matrix																											
Customer Name : GFE LLC		Project Manager : Frank Galdun		AIR ANALYSIS																													
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																													
		Fax Number : 973-334-1692		Batch Certified																													
City : Lake Hiawatha		Site Details: 97-36 63rd RD. BRONX, NY																															
State : NJ		Analysis Turnaround Time 3 DAY																															
Zip Code : 07034		Standard : 10 business days OR		Data Package Type : RESULTS ONLY																													
Country :		Rush (Specify): 3 Days		EDD Type : PDF																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/ Ambient Air	Soil Gas																		
IAZ	3/12/12	11:12	1:12	30	6.5	60	60	-30	-6.7	10579	10401	50	VL041876.D	1	1																		
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																																	
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.																																	
Special Instructions/QC Requirements & Comments :																																	
Suspected Contamination: High Medium Low PID Readings: 0.0																																	
Sampling site (State):																																	
Quick Connector required : NO																																	
Canisters Shipped by: <i>[Signature]</i>																																	
Samples Relinquished by: <i>[Signature]</i>																																	
Relinquished by:																																	
Date/Time: 02/18/12																																	
Date/Time: 3/14/12																																	
Date/Time: 3-4-25 / 039																																	
B2502047 - 5																																	

Client Contact Information		Bottle Order ID : B2502047		Courier : F Galdun		1 of 6 COCs																			
Client ID : GFEL01		Project ID : 40-5111-01		Sampler Name(s) : FRANK GARDUN		Analysis																			
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS		Matrix																			
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																					
City : Lake Hiawatha		Fax Number : 973-334-1692		Batch Certified																					
State : NJ		Site Details: 97-3663RD RD. REGO PARK, NY																							
Zip Code : 07034		Analysis Turnaround Time 3 DAY																							
Country : USA		Standard : USEPA Method 8190 OR		Data Package Type : RESULTS ONLY																					
		Rush (Specify): 3 Days		EDD Type : PDF																					
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum in Field ("Hg) (Start)	Can Vacuum in Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	TO-15	Indoor Ambient Air	Soil Gas									
IAI	12/16/07	9:40	11:40	OVER 30	5	68	68	-30	-4.3	10511	10604	50	VL041876.D	1	1										
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																	Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																							
Start																									
Stop																									
Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																	Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																							
Start																									
Stop																									
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																									
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, VINYL CHLORIDE Please follow the instructions on the back of this COC.																									
Special Instructions/QC Requirements & Comments :																									
Suspected Contamination: High Medium Low PID Readings: 0.0																									
Sampling site (State):																									
Quick Connector required : NO																									
Canisters Shipped by: Saman																									
Samples Relinquished by: Saman																									
Relinquished by:																									
Date/Time: 02/28/15 Canisters Received by: OR																									
Date/Time: 3/11/15 Received by:																									
Date/Time:																									
B2502047 - 6																									

Client Contact Information		Bottle Order ID : B2502047		Courier : <u>Frank Galdun</u>		4 of 6 COCs																				
Client ID : GFEL01		Project ID : <u>10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100</u>		Sampler Name(s) : <u>Frank Galdun</u>		Analysis																				
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS		Matrix																				
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																						
		Fax Number : 973-334-1692		Batch Certified																						
City : Lake Hiawatha		Site Details: <u>97-36 63RD RD.</u>																								
State : NJ		<u>REGO PARK NY</u>																								
Zip Code : 07034		Analysis Turnaround Time <u>3 DAY</u>																								
Country :		Standard : <u>10 business days</u> OR		Data Package Type : <u>Results only</u>																						
		Rush (Specify): <u>3</u> Days		EDD Type : <u>RDF</u>																						
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													
SJ2	12/29/04	11:54	12:00	7.5	7.5	64	64	-30	-8.4	10502	10300	50	VL041876.D				Indoor/Ambient Air									
GC/MS Analyst Signature (TO-15) <u>[Signature]</u>																										
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																		Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																								
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Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																		Ambient	Maximum	Minimum	Start			Stop		
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Stop																										
** Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																										
Special Instructions/QC Requirements & Comments :																										
Suspected Contamination: <u>High</u> PID Readings: <u>101 ppm</u>																										
Sampling site (State):																										
Quick Connector required : <u>NJO</u>																										
Canisters Shipped by: <u>[Signature]</u>																										
Samples Relinquished by: <u>[Signature]</u>																										
Relinquished by:																										
Date/Time: <u>3-4-25</u> <u>1039</u>																										
Date/Time:																										
Date/Time:																										
B2502047 - 3																										

Client Contact Information		Bottle Order ID : B2502047		Courier : FRANK GULDUN		3 of 6 COCs																											
Client ID : GFEL01		Project ID : 10-10-10-10-10		Sampler Name(s) : FRANK GULDUN		Analysis Matrix																											
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS																													
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																													
		Fax Number : 973-334-1692		Batch Certified																													
City : Lake Hiawatha		Site Details: 97-36 63RD RD. RESO PARK, NY																															
State : NJ		Analysis Turnaround Time 3 DAY																															
Zip Code : 07034		Standard : 10-10-10-10-10 OR		Data Package Type Results ONLY																													
Country :		Rush (Specify): 3 Days		EDD Type :																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas																		
SU1	12/21/2011 8:11 AM	12:11	12:11	6	6	70	70	-30	-4.7	10648	10326	6 L	50	VL041876.D	1																		
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
Ambient	Maximum	Minimum																															
Start																																	
Stop																																	
GC/MS Analyst Signature (TO-15) <i>[Signature]</i>																																	
** Submittal of this COC indicates approval of the analysis based on existing conditions. Report only: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																																	
Special Instructions/QC Requirements & Comments :																																	
Suspected Contamination: High																																	
Sampling site (State):																																	
Quick Connector required : NO																																	
Canisters Shipped by: <i>[Signature]</i> Date/Time: 12/21/11 10:34																																	
Samples Relinquished by: <i>[Signature]</i> Date/Time: 12/21/11 10:34																																	
Relinquished by: <i>[Signature]</i> Date/Time: 12/21/11 10:34																																	
B2502047 - 4																																	

Client Contact Information		Bottle Order ID : B2502047		Courier : <u>Frank Galdun</u>		5 of 6 COCs	
Client ID : GFELO1		Project ID : <u>10-ELM-01</u>		Sampler Name(s) : <u>FRANK GALDUN</u>		Analysis Matrix	
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS CHAIN-OF-CUSTODY Batch Certified			
Address : 58 Nokomis Ave		Phone Number : 646-542-3465					
City : Lake Hiawatha		Fax Number : 973-334-1692					
State : NJ		Site Details : <u>97-3663RD RD.</u> <u>REGO PARK NY</u>					
Zip Code : 07034		Analysis Turnaround Time <u>3 DAY</u>		Data Package Type : <u>Results only</u>			
Country :		Standard : <u>10-ELM-01</u> <u>Days</u> OR <u>Days</u>		EDD Type :			
Sample Identification		Time Start (24 hr Clock)		Time Stop (24 hr Clock)		Can Vacuum in Field ("Hg) (Start)	
4/23/2012		12:00		12:00		0.50-20	
Can Vacuum in Field ("Hg) (Stop)**		Interior Temp. (F) (Start)		Interior Temp. (F) (Stop)		Out going Can Pressure ("Hg)(Lab)	
5		65		69		-30	
Can Vacuum in Field ("Hg) (Start)		In coming Can Pressure ("Hg)(Lab)		Flow Reg. ID		Can ID	
0.50-20		-5.5		10226		10024	
Can Cert ID		Flow Controller Readout (ml/min)		6 L		VL041954.D	
1		1		1		1	
Soil Gas		Indoor/Ambient Air		15-01		1	
GC/MS Analyst Signature (TO-15) <u>Sull</u>							
** Submittal of this COC indicates approval of the analysis based on existing conditions. <u>REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE</u>							
Please follow the instructions on the back of this COC.							
Special Instructions/QC Requirements & Comments :							
Suspected Contamination: High Medium Low <u>Low</u>							
Sampling site (State):							
Quick Connector required : <u>NO</u>							
Canisters Shipped by: <u>Sull</u>		Date/Time: <u>02/20/12</u>		Canisters Received by: <u>CR</u>		Date/Time: <u>3-4-25 1039</u>	
Samples Relinquished by: <u>FRANK</u>		Date/Time: <u>3/3/25</u>		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	

Client Contact Information		Bottle Order ID : B2502047		Courier : F Galdun		6 of 6 COCs																											
Client ID : GFELO1		Project ID : 10-01-01-01		Sampler Name(s) : FRANK GALDUN		Analysis Matrix																											
Customer Name : GFE LLC		Project Manager : Frank galdun		AIR ANALYSIS																													
Address : 58 Nokomis Ave		Phone Number : 646-542-3465		CHAIN-OF-CUSTODY																													
		Fax Number : 973-334-1692		Batch Certified																													
City : Lake Hiawatha		Site Details : 97-36 6387 RD. REGO PARK, NY																															
State : NJ		Analysis Turnaround Time : 3 DAY																															
Zip Code : 07034		Standard : 10-business days OR		Data Package Type : RESULTS ONLY																													
Country :		Rush (Specify): 3 Days		EDD Type : PDF																													
Sample Identification	Sample Date(s)	Time Start (24 hr Clock)	Time Stop (24 hr Clock)	Can Vacuum In Field ("Hg) (Start)	Can Vacuum In Field ("Hg) (Stop)**	Interior Temp. (F) (Start)	Interior Temp. (F) (Stop)	Out going Can Pressure ("Hg)(Lab)	In coming Can Pressure ("Hg)(Lab)	Flow Reg. ID	Can ID	Flow Controller Readout (ml/min)	Can Cert ID	Indoor/Ambient Air	Soil Gas																		
SU4	4/27/03	10:53	12:57	30	5	68	68	-30	-4.7	10707	10197	50	VL041954.D		1																		
Temperature (Fahrenheit) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table> Pressure (Inches of Hg) <table border="1"> <tr> <td>Ambient</td> <td>Maximum</td> <td>Minimum</td> </tr> <tr> <td>Start</td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> </tr> </table>																Ambient	Maximum	Minimum	Start			Stop			Ambient	Maximum	Minimum	Start			Stop		
Ambient	Maximum	Minimum																															
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GC/MS Analyst Signature (TO-15) Sut																																	
** Submittal of this COC indicates approval of the analysis based on existing conditions. REPORT ONLY: PCE, TCE, cis-1,2-DCE, 1,1-DCE, 1,1,1-TCA, VINYL CHLORIDE Please follow the instructions on the back of this COC.																																	
Special Instructions/QC Requirements & Comments :																																	
Suspected Contamination: High PID Readings: 25 RPM																																	
Sampling site (State):																																	
Quick Connector required : NO																																	
Canisters Shipped by: SEM																																	
Samples Relinquished by: FLS																																	
Relinquished by:																																	
Date/Time: 02/28/25 Canisters Received by: CR																																	
Date/Time: 3/4/25 1039																																	
Date/Time:																																	
Date/Time:																																	
B2502047 - 2																																	

Instructions: Use 1 form for each 20 samples of aliquot

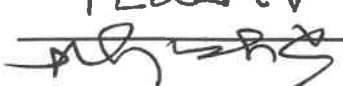
Analytical Parameter/Fraction/MCMS Group3

[illegible]

AIR SAMPLE PRESSURE & DILUTION LOGBOOK

Analyst Signature: 

METHOD: TO-15

Supervisor Signature: 

Pressure Gauge ID: A255971

Date	Sample Number	Canister #	Initial Pressure psia	Initial Pressure Hg	Final Pressure psia	Final Pressure Hg	Dilution Factor	Comment
02/18/15	Q1386-01	10294	11.8	-5.9				sy
02/14/15	Q1419-01	10267	12.4	-4.7				sy
11	Q1419-02	10492	12.4	-3.9				sy
02/25/15	Q1436-01	10158	12.4	-4.7				sy
	Q1436-02	10334	11.8	-5.9				sy
	Q1436-03	10320	12.4	-4.7				sy
	Q1436-04	10060	12.4	-4.7				sy
	Q1436-05	10597	13.8	-1.8				sy
	Q1436-06	10280	12.2	-5.1				sy
02/12/15	Q1419-01	10461	1.0	+0.7	10.0		10x	sy
02/26/15	Q1450-01	10445	12.2	-5.1				sy
4	Q1450-02	10606	12.4	-4.7				sy
03/04/15	Q1483-01	10604	12.6	-4.3				sy
	Q1483-02	10401	11.4	-6.7				sy
	Q1483-03	10326	12.4	-4.7				sy
	Q1483-04	10300	12.0	-8.4				sy
	Q1483-05	10024	12.0	-5.5				sy
	Q1483-06	10197	12.4	-4.7				sy

Process Report

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

Order ID : Q1483

Date	Bottle ID	Lab Sample Number	Incoming Vacuum	Canister ID	Can Size	Reg ID	Reg Size	Batch Code	Certification ID
03/04/2025	B2502047	Q1483-01	-4.3	10604	6 L	10511		VL041876.D Seq: VL010925 TUNE: VL041857.D ICAL: VL041864.D CCAL: VL041859.D MB: VL041869.D	
03/04/2025	B2502047	Q1483-02	-6.7	10401	6 L	10579		VL041876.D Seq: VL010925 TUNE: VL041857.D ICAL: VL041864.D CCAL: VL041859.D MB: VL041869.D	
03/04/2025	B2502047	Q1483-03	-4.7	10326	6 L	10648		VL041876.D Seq: VL010925 TUNE: VL041857.D ICAL: VL041864.D CCAL: VL041859.D MB: VL041869.D	
03/04/2025	B2502047	Q1483-04	-8.4	10300	6 L	10502		VL041876.D Seq: VL010925 TUNE: VL041857.D ICAL: VL041864.D CCAL: VL041859.D MB: VL041869.D	
03/04/2025	B2502047	Q1483-06	-4.7	10197	6 L	10707		VL041954.D Seq: VL012725 TUNE: VL041943.D ICAL: VL041894.D CCAL: VL041944.D MB: VL041946.D	
03/04/2025	B2502047	Q1483-05	-5.5	10024	6 L	10226		VL041954.D Seq: VL012725 TUNE: VL041943.D ICAL: VL041894.D CCAL: VL041944.D MB: VL041946.D	

CHEMTECH

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

Client Sample ID #: IA2
Client Name: GFE
Project Name: 97-36 63RD RD.
Date: 3/3 Time: 10-15
Analysis: _____
Comments: _____
CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Ex: _____

Storage Location: VOA Lab
Sample: Q1483-02
Cust #: IA2

B2502047

CHEMTECH

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

Client Sample ID #: IA1
Client Name: GFE
Project Name: 63RD RD
Date: 3/3 Time: 10-15
Analysis: _____
Comments: _____
CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Expiration: _____

Storage Location: VOA Lab
Sample: Q1483-01
Cust #: IA1

B2502047

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

CHEMTECH

Client Sample ID #: SV1
Client Name: GFE
Project Name: 63RD RD.
Date: 3/3 Time: 10-15
Analysis: _____
Comments: _____
CHEMTECH'S SAMPLE ID: _____
Date Received: _____ Ex: _____

Storage Location: VOA Lab
Sample: Q1483-03
Cust #: SV1

B2502047

92301

10024

111 **CHEMTECH** 788m

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

Client Sample ID #: SV3

Client Name: GFE

Project Name: 63RD RD

Date: 3/3 Time: TO-15

Analysis: _____

Comments: _____

Storage Location: VOA Lab

Sample: Q1483-05

Cust #: SV3

15.5

10360

10148m

CHEMTECH

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

Client Sample ID #: SV2

Client Name: GFE

Project Name: 63RD RD

Date: 3/3 Time: TO-15

Analysis: _____

Comments: _____

Storage Location: VOA Lab

Sample: Q1483-04

Cust #: SV2

4.8

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

CHEMTECH 2588m

Client Sample ID #: SV4

Client Name: GFE

Project Name: 63RD RD

Date: 3/3 Time: TO-15

Analysis: _____

Comments: _____

Storage Location: VOA Lab

Sample: Q1483-06

Cust #: SV4

10360

10148m

CHEMTECH

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

Client Sample ID #: SV2

Client Name: GFE

Project Name: 63RD RD

Date: 3/3 Time: TO-15

Analysis: _____

Comments: _____

Storage Location: VOA Lab

Sample: Q1483-04

Cust #: SV2

4.8