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

Cover Page

Order ID : Q1031

Project ID : 182 Ralph Ave, Brooklyn NY

Client : GFE LLC

Lab Sample Number	Client Sample Number
Q1031-01	SV1
Q1031-02	IA1

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 1/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

SHIPPING DOCUMENTS

CHEMTECH

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

CHEMTECH Project No. : Q1031

Client Contact Information	Bottle Order ID : **B2501003**	Courier : F GALDUN	1 of 2 COCs
Client ID : **GFEL01** Project ID : ~~Z5-05 First Ave Elmhurst NY~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **FRANK GALDUN**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 182 RALPH AVE BROOKLYN, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : **10 ~~business days~~ OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : 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/Ambinet Air	Soil Gas		
SV1	1/7/25	8:12	10:12	29	5	62	65	-30	-6.3	10503	10608	6 L	50	VL041545.D	1					1		

Temperature (Fahrenheit)				
	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)				
	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:	Date/Time: 1/06/25	Canisters Received by:	Date/Time: 1-7-25 1120		
Samples Relinquished by:	Date/Time: 1/7/25	Received by:	Date/Time:	**B2501003 - 2**	
Relinquished by:	Date/Time:	Received by:	Date/Time:		

CHEMTECH

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

CHEMTECH Project No. : Q1031

Client Contact Information	Bottle Order ID : **B2501003**	Courier : F GALDUN	1 of 1 COCs
Client ID : **GFEL01** Project ID : ~~75-02 51st Ave Elmhurst NY~~		Sampler Name(s) : FRANK GALDUN	Analysis / Matrix
Customer Name : **GFE LLC**	Project Manager : **FRANK GALDUN**	AIR ANALYSIS CHAIN-OF-CUSTODY	
Address : **58 Nokomis Ave**	Phone Number : **646-542-3465**		
	Fax Number : **973-334-1692**		
	Site Details: 182 RALPH AVE. BROOKLYN, NY	Batch Certified	
City : **Lake Hiawatha**			
State : **NJ**	Analysis Turnaround Time 5 DAY		
Zip Code : **07034**	Standard : ~~10 business days~~ **OR**	Data Package Type : RESULTS ONLY	
Country :	Rush (Specify): 5 **Days**	EDD Type : 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 Ambinet Air	Soil Gas		
IA1	1/7/25	8:14	10:14	over 30	6.5	62	65	-30	-5.1	10528	10024	6 L	50	VL041545.D	1	1			

Temperature (Fahrenheit)	Ambient	Maximum	Minimum	
Start				
Stop				

GC/MS Analyst Signature (TO-15)

Pressure (Inches of Hg)	Ambient	Maximum	Minimum	
Start				
Stop				

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

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

Please follow the instructions on the back of this COC.

Special Instructions/QC Requirements & Comments :

Suspected Contamination: High Medium (Low)

PID Readings: 0.0

Sampling site (State):

Quick Connector required : NO

Canisters Shiped by:		Date/Time: 1/7/25	Canisters Received by:	Date/Time: 1-7-25 1120	
Samples Relinquished by:		Date/Time: 1/7/25	Received by:	Date/Time:	B2501003 - 1
Relinquished by:		Date/Time:	Received by:	Date/Time:	

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

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

New Jersey Department of Environmental Protection

Internal Chain of Custody

Instructions: Use 1 form for each 20 samples of aliquot

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

Laboratory: Chemtech
Location: 284 Sheffield Street, Mountainside, NJ 7092
~~NAME~~:
Title: Sample Custodian
Field Sample Seal No.: Q1031
Date Broken 1/7/2025
Military Time Seal Broken: 11:20:00
Case No.: 182 Ralph Ave, Brooklyn N
Analytical Parameter/Fraction VOCMS Group3

Sample No.	Aliquot/Extract No.	Sample No.	Aliquot/Extract No.
Q1031-01	SV1		
Q1031-02	IA1		

Date	Time	Relinquished By	Received By	Purpose of Change of Custody
1-7-25	13:08	Signature [signature]	Signature [signature]	
		Printed Name Cassanova Peña	Printed Name Pedro Sanchez	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	
		Signature	Signature	
		Printed Name	Printed Name	

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

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CASE NARRATIVE

GFE LLC
Project Name: 182 Ralph Ave, Brooklyn NY
Project # N/A
Chemtech Project # Q1031
Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:
2 Air samples were received on 01/07/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: VOCMS Group3. This data package contains results for VOCMS Group3.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator.The analysis of VOCMS Group3 was based on method TO-15.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.
Due to potential high concentration of target analytes sample SV1 was initially diluted.

E. Additional Comments:

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed

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Phone: 908 789 8900 Fax: 908 789 8922

above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

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 is 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

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q1031**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **PATEL VAISHALI** **Date:** **01/10/2025**

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LAB CHRONICLE

OrderID:	Q1031	**OrderDate:**	1/7/2025 12:37:00 PM
Client:	GFE LLC	**Project:**	182 Ralph Ave, Brooklyn NY
Contact:	Frank Galdun	**Location:**	N41,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1031-01	**SV1**	**Air**			**01/07/25**			**01/07/25**
			VOCMS Group3	TO-15			01/07/25	
Q1031-02	**IA1**	**Air**			**01/07/25**			**01/07/25**
			VOCMS Group3	TO-15			01/07/25	

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Hit Summary Sheet
SW-846

SDG No.: Q1031

Client: GFE LLC

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**SV1**							
Q1031-01	SV1	Air	Tetrachloroethene	19.7		0.20	0.41	ug/m3
			Total Voc :	19.7				
			Total Concentration:	19.7				

QC SUMMARY

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Surrogate Summary

SDG No.: Q1031

Client: GFE LLC

Analytical Method: SWTO-15

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
Q1031-01	SV1	1-Bromo-4-Fluorobenzene	10	10.5	105	65	135
Q1031-02	IA1	1-Bromo-4-Fluorobenzene	10	9.62	96	65	135
Q1031-02DUP	IA1DUP	1-Bromo-4-Fluorobenzene	10	9.58	96	65	135
VL0107ABL01	VL0107ABL01	1-Bromo-4-Fluorobenzene	10	9.29	93	65	135
VL0107ABS01	VL0107ABS01	1-Bromo-4-Fluorobenzene	10	10.7	107	65	135

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1031

Client: GFE LLC

Analytical Method: SWTO-15 **Datafile :** VL041854.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VL0107ABS01	Vinyl Chloride	10	9.20	ppbv	92			70	130	
	1,1-Dichloroethene	10	9.80	ppbv	98			70	130	
	cis-1,2-Dichloroethene	10	10.3	ppbv	103			70	130	
	1,1,1-Trichloroethane	10	10.2	ppbv	102			70	130	
	Trichloroethene	10	10.7	ppbv	107			70	130	
	Tetrachloroethene	10	11.6	ppbv	116			70	130	

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Duplicate Sample Summary

Lab Sample Id :	Q1031-02DUP		Q1031-02	
Client Id :	IA1DUP		IA1	
DF :	1		1	
Datafile :	VL041848.D		VL041847.D	
Anal Date & Time :	01/07/2025	17:33	01/07/2025	16:59

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

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

IA1DUP

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1031 SAS No.: Q1031 SDG NO.: Q1031

Lab File ID: VL041848.D Lab Sample ID: Q1031-02DUP

Date Analyzed: 01/07/2025 Time Analyzed: 17:33

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	Q1031-02DUP	VL041848.D	01/07/2025

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VL0107ABL01

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1031 SAS No.: Q1031 SDG NO.: Q1031

Lab File ID: VL041846.D Lab Sample ID: VL0107ABL01

Date Analyzed: 01/07/2025 Time Analyzed: 15:55

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
IA1	Q1031-02	VL041847.D	01/07/2025
SV1	Q1031-01	VL041851.D	01/07/2025
VL0107ABS01	VL0107ABS01	VL041854.D	01/07/2025

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1031 SAS No.: Q1031 SDG NO.: Q1031

Lab File ID: VL041836.D BFB Injection Date: 01/07/2025

Instrument ID: MSVOA_L BFB Injection Time: 08:06

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	26.8
75	30.0 - 66.0% of mass 95	60.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0) 1
174	50.0 - 120.0% of mass 95	57.6
175	4.0 - 9.0% of mass 174	4.2 (7.2) 1
176	93.0 - 101.0% of mass 174	55.2 (95.8) 1
177	5.0 - 9.0% of mass 176	3.4 (6.1) 2

1-Value is % mass 174 2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICCC010	VSTDICCC010	VL041838.D	01/07/2025	09:18
VSTDICC002	VSTDICC002	VL041839.D	01/07/2025	09:51
VSTDICC001	VSTDICC001	VL041840.D	01/07/2025	10:21
VSTDICC0.5	VSTDICC0.5	VL041841.D	01/07/2025	10:52
VSTDICC0.1	VSTDICC0.1	VL041842.D	01/07/2025	11:22
VSTDICC0.03	VSTDICC0.03	VL041843.D	01/07/2025	11:52
VSTDICC015	VSTDICC015	VL041844.D	01/07/2025	12:25
VL0107ABL01	VL0107ABL01	VL041846.D	01/07/2025	15:55
IA1	Q1031-02	VL041847.D	01/07/2025	16:59
IA1DUP	Q1031-02DUP	VL041848.D	01/07/2025	17:33
SV1	Q1031-01	VL041851.D	01/07/2025	19:05
VL0107ABS01	VL0107ABS01	VL041854.D	01/07/2025	20:36

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1031 SAS No.: Q1031 SDG NO.: Q1031

Lab File ID: VL041838.D Date Analyzed: 01/07/2025

Instrument ID: MSVOA_L Time Analyzed: 09:18

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	97717	2.80	232315	3.98	198370	8.90
UPPER LIMIT	136804	3.13	325241	4.31	277718	9.23
LOWER LIMIT	58630.2	2.47	139389	3.65	119022	8.57
EPA SAMPLE NO.						
SV1	81088	2.79	178085	3.97	183102	8.89
IA1	83947	2.80	185037	3.98	157066	8.90
IA1DUP	81531	2.80	178626	3.98	151437	8.90
VL0107ABL01	90245	2.80	205689	3.98	171847	8.90
VL0107ABS01	85990	2.79	194920	3.97	165772	8.89

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

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

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

SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	GFE LLC	Date Collected:	01/07/25
Project:	182 Ralph Ave, Brooklyn NY	Date Received:	01/07/25
Client Sample ID:	SV1	SDG No.:	Q1031
Lab Sample ID:	Q1031-01	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
VL041851.D	2		01/07/25 19:05	VL010725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.030	0.080	U	0.080	0.15	ug/m3
75-35-4	1,1-Dichloroethene	0.28	1.11	U	1.11	3.96	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.18	0.71	U	0.71	3.96	ug/m3
71-55-6	1,1,1-Trichloroethane	0.020	0.11	U	0.11	0.33	ug/m3
79-01-6	Trichloroethene	0.030	0.16	U	0.16	0.32	ug/m3
127-18-4	Tetrachloroethene	2.90	19.7		0.20	0.41	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.5			65 - 135	105%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	81100		2.793			
540-36-3	1,4-Difluorobenzene	178000		3.971			
3114-55-4	Chlorobenzene-d5	183000		8.891			

U = Not Detected
RL = Reporting Limit
MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound

* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041851.D
Acq On : 07 Jan 2025 19:05
Operator : SY/MD
Sample : Q1031-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:57:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	81088	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.971	114	178085	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.891	117	183102	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.383	95	164947	10.518	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	3107	0.234	ppbv		98
3) Chlorodifluoromethane	1.479	51	2826	0.222	ppbv		93
4) Chloromethane	1.534	50	1167	0.213	ppbv	#	59
9) Propene	1.489	41	19341m	4.370	ppbv		
10) Heptane	4.997	43	5065	0.463	ppbv		98
11) Trichlorofluoromethane	1.881	101	1951	0.144	ppbv	#	79
13) Ethanol	1.725	45	3184	5.476	ppbv	#	38
15) Acetone	1.838	43	54741	3.667	ppbv		97
19) Isopropyl Alcohol	1.890	45	2170	0.310	ppbv	#	1
20) Methylene Chloride	2.068	84	1866	0.437	ppbv	#	77
26) Hexane	2.835	57	29745	3.423	ppbv	#	29
27) Carbon Disulfide	2.156	76	4672	0.567	ppbv	#	4
29) Chloroform	2.855	83	42132	2.610	ppbv		100
30) Cyclohexane	3.868	84	710m	0.108	ppbv		
34) 2-Butanone	2.567	43	12723	0.907	ppbv		100
35) Carbon Tetrachloride	3.780	117	1277m	0.095	ppbv		
36) Benzene	3.670	78	3143	0.185	ppbv		96
41) Tetrahydrofuran	3.078	42	846m	0.128	ppbv		
52) Tetrachloroethene	8.234	164	7190	1.425	ppbv	#	84
53) Toluene	6.952	91	15874m	1.048	ppbv		
58) Ethyl Benzene	9.360	91	3296m	0.132	ppbv		
59) m/p-Xylene	9.542	91	6686m	0.304	ppbv		
60) o-Xylene	9.969	91	5929m	0.277	ppbv		
73) 1,3,5-Trimethylbenzene	11.212	105	4304	0.190	ppbv	#	83
74) 1,2,4-Trimethylbenzene	11.545	105	6914	0.263	ppbv	#	66

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

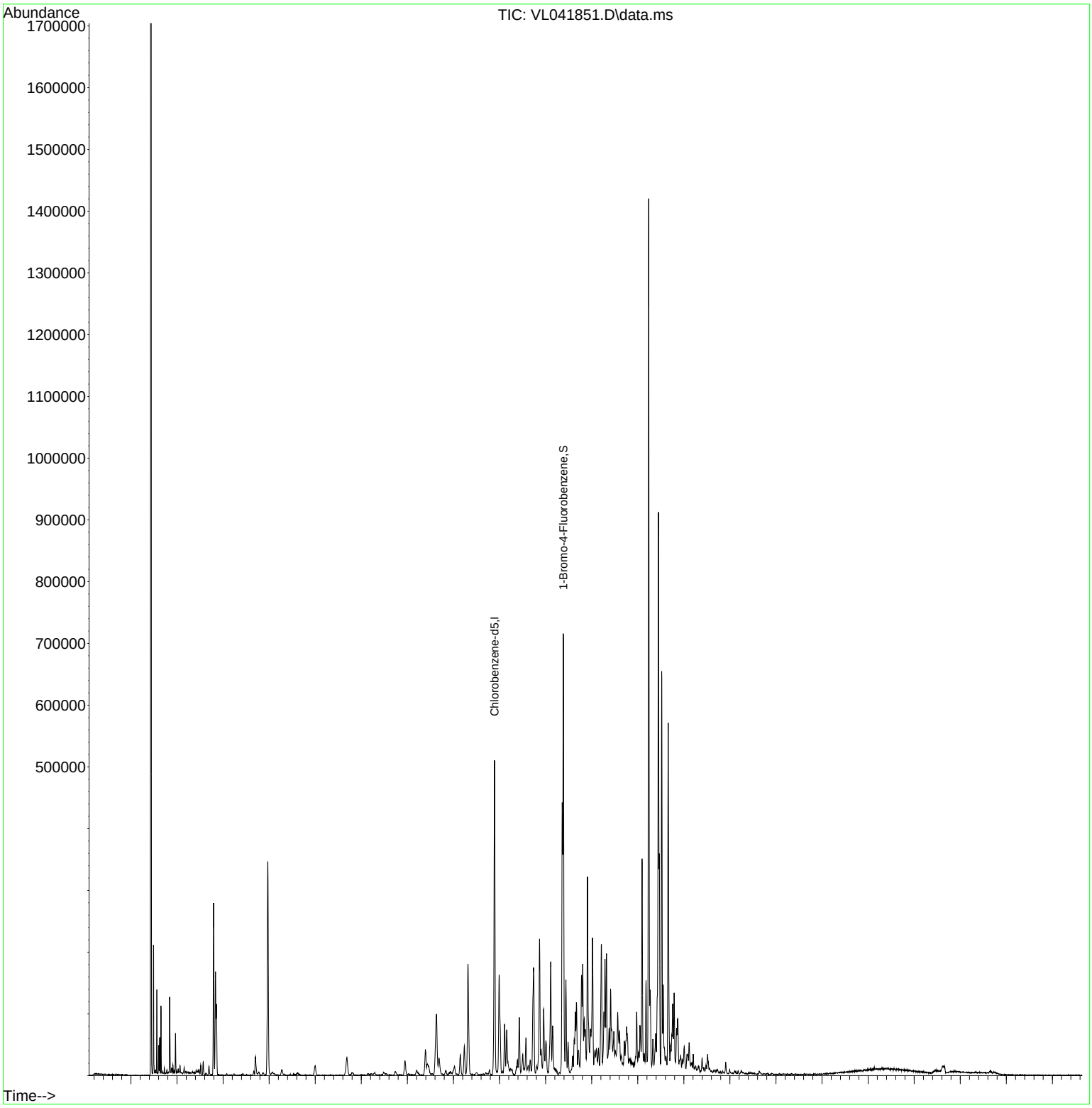
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041851.D
Acq On : 07 Jan 2025 19:05
Operator : SY/MD
Sample : Q1031-01 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

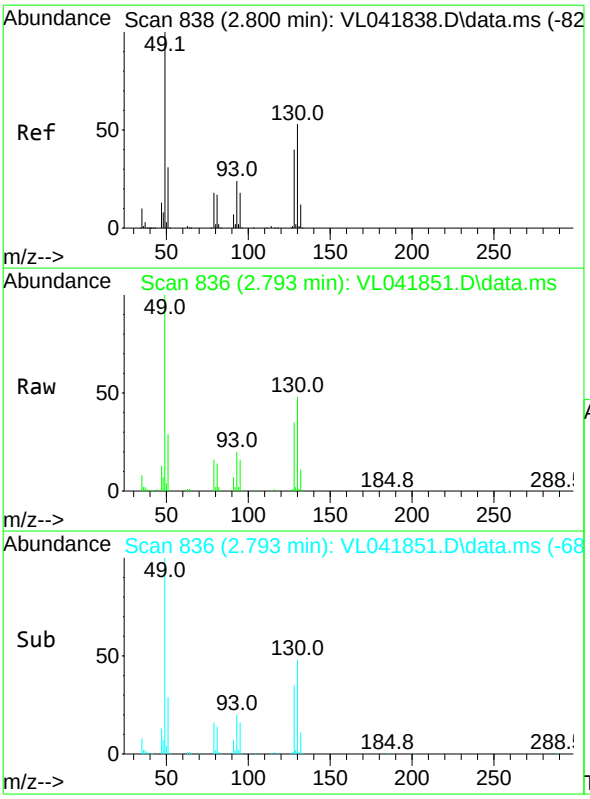
Quant Time: Jan 08 03:57:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

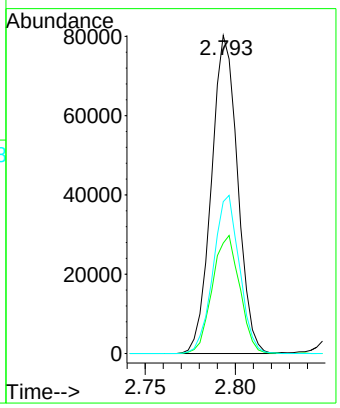




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 83
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 49 Resp: 81088

Ion	Ratio	Lower	Upper
49	100		
128	38.7	19.7	59.1
130	49.7	26.4	79.2



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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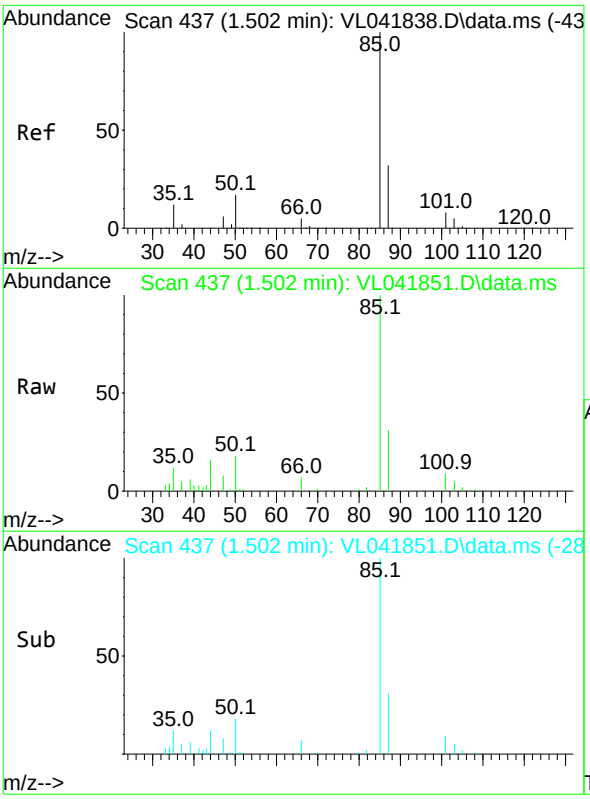
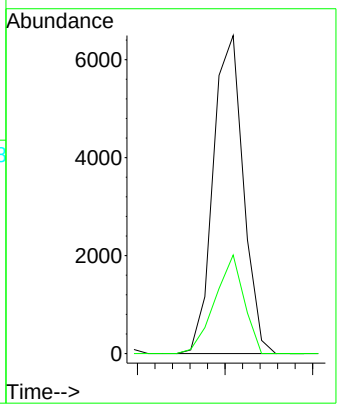
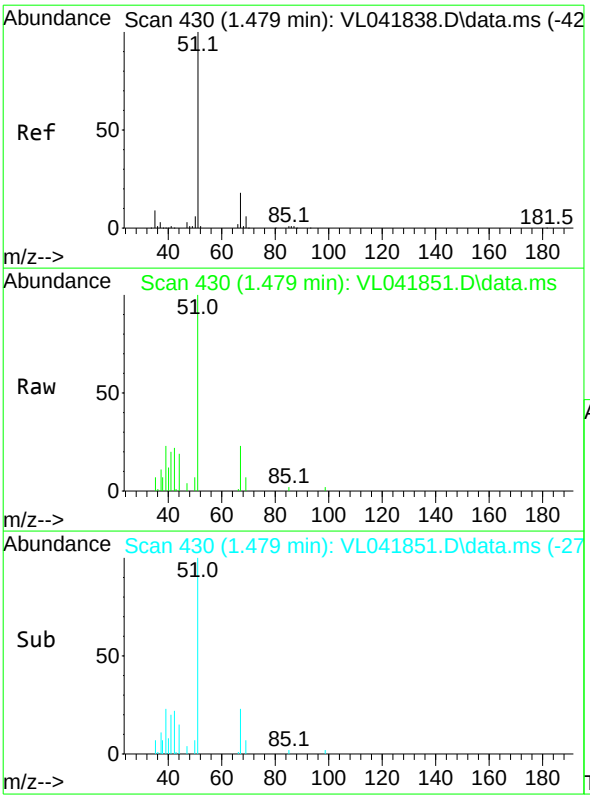


#2
Dichlorodifluoromethane
Concen: 0.234 ppbv
RT: 1.502 min Scan# 437
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 85 Resp: 3107

Ion	Ratio	Lower	Upper
85	100		
87	31.0	25.6	38.4

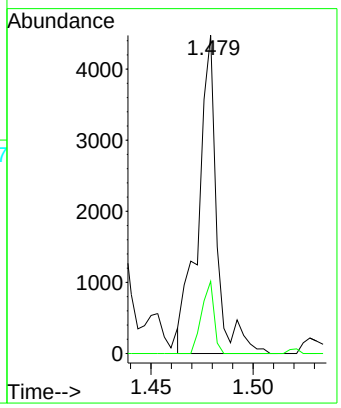




#3
Chlorodifluoromethane
Concen: 0.222 ppbv
RT: 1.479 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 51 Resp: 2826

Ion	Ratio	Lower	Upper
51	100		
67	15.0	14.6	22.0



Instrument :
MSVOA_L
ClientSampleId :
SV1

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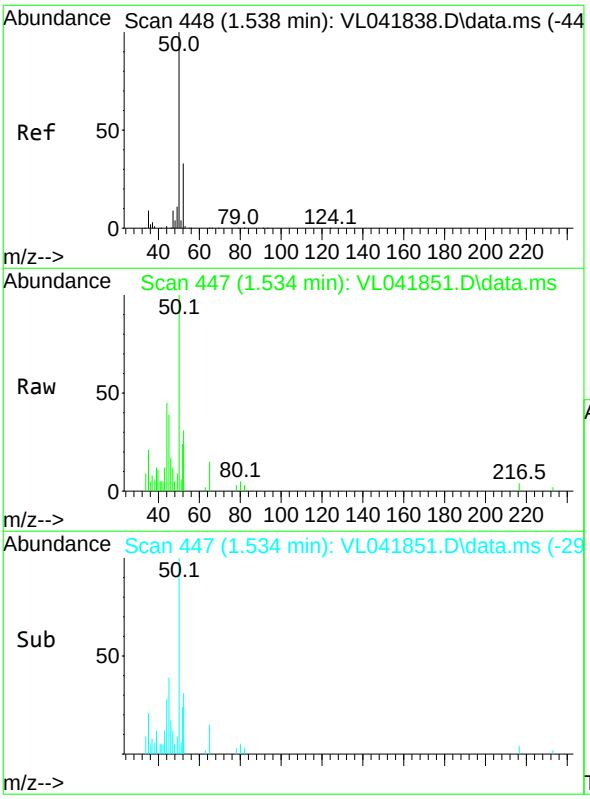
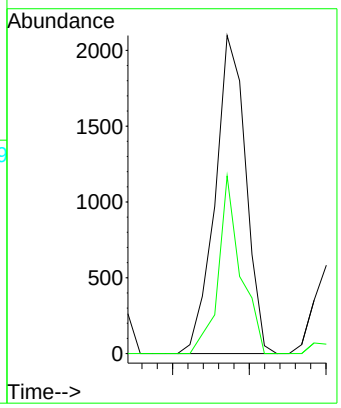
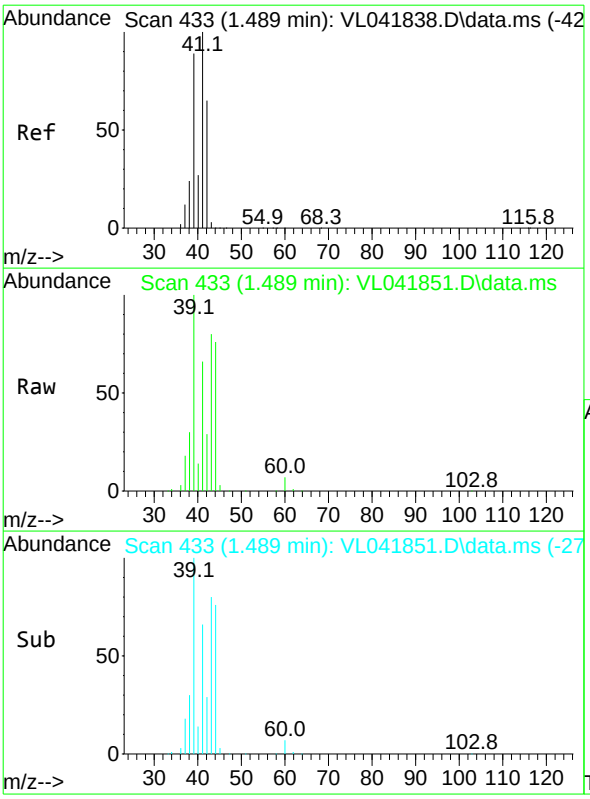


#4
Chloromethane
Concen: 0.213 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 50 Resp: 1167

Ion	Ratio	Lower	Upper
50	100		
52	55.9	26.1	39.1#

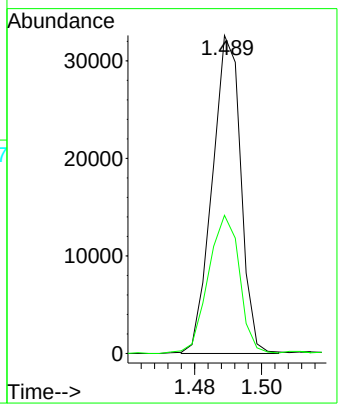




#9
Propene
Concen: 4.370 ppbv m
RT: 1.489 min Scan# 43
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 41 Resp: 19341

Ion	Ratio	Lower	Upper
41	100		
42	56.1	53.9	80.9



Instrument :
MSVOA_L
ClientSampleId :
SV1

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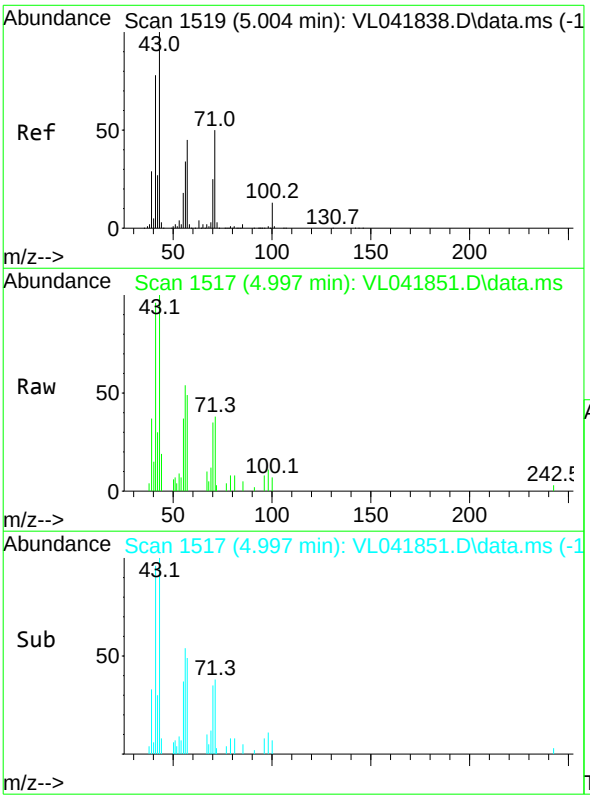
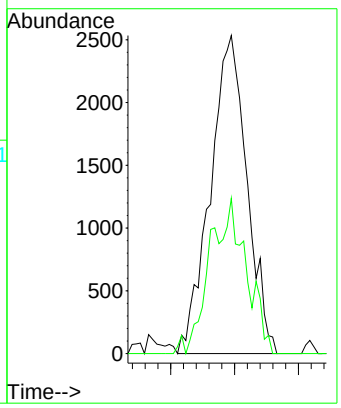
Supervised By :Mahesh Dadoda 01/09/2025

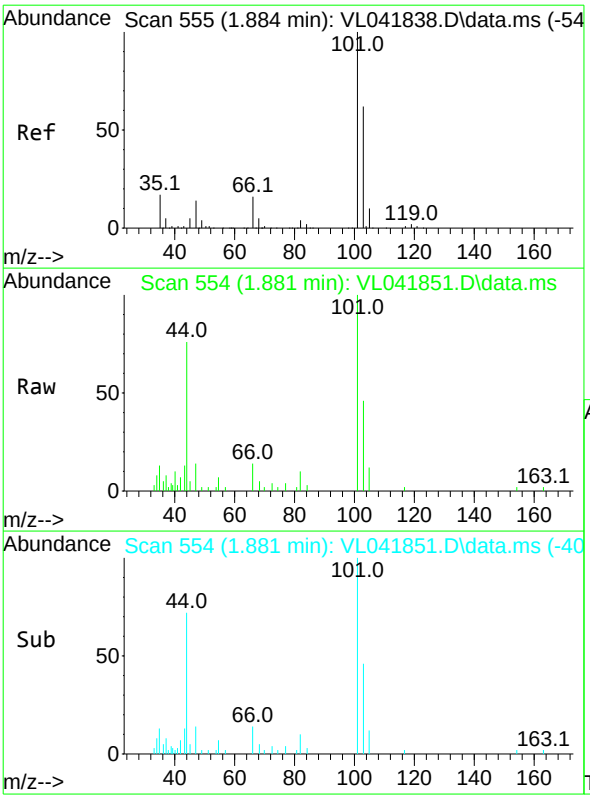


#10
Heptane
Concen: 0.463 ppbv
RT: 4.997 min Scan# 1517
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 43 Resp: 5065

Ion	Ratio	Lower	Upper
43	100		
57	48.5	37.8	56.6

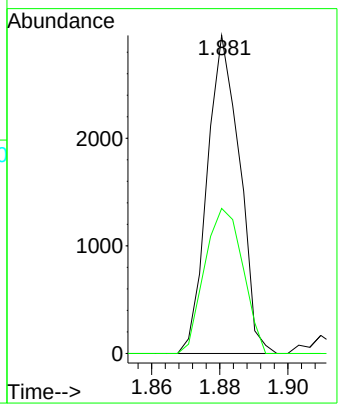




#11
Trichlorofluoromethane
Concen: 0.144 ppbv
RT: 1.881 min Scan# 55
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:101 Resp: 1951

Ion	Ratio	Lower	Upper
101	100		
103	45.6	49.4	74.0#



Instrument :
MSVOA_L
ClientSampleId :
SV1

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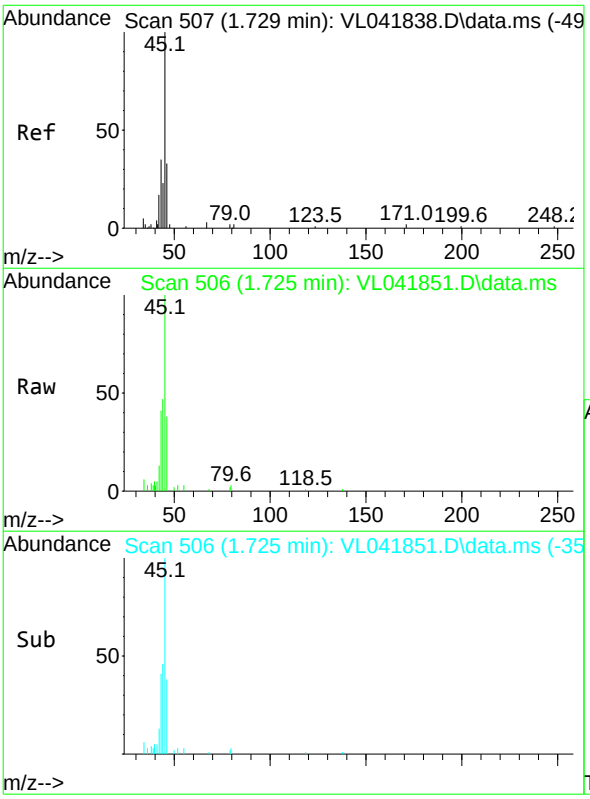
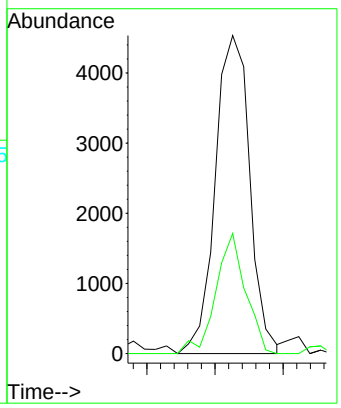
Supervised By :Mahesh Dadoda 01/09/2025

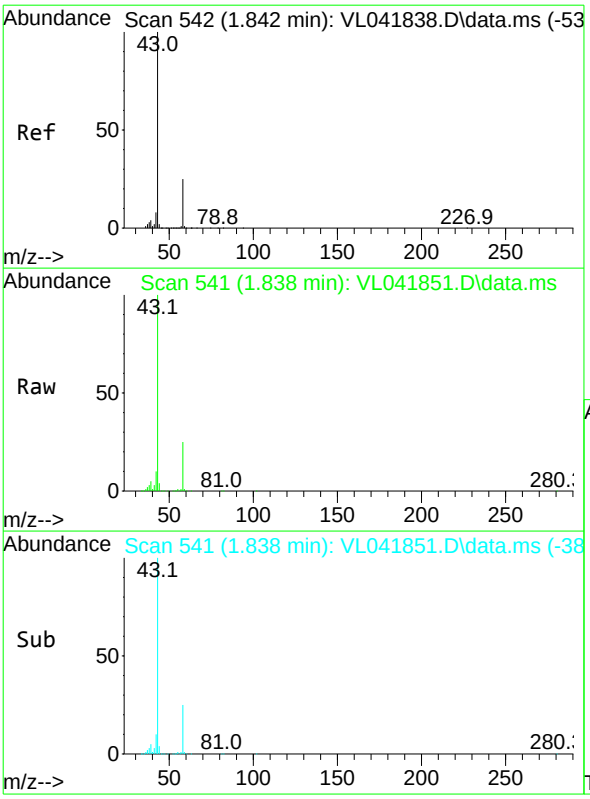


#13
Ethanol
Concen: 5.476 ppbv
RT: 1.725 min Scan# 506
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 45 Resp: 3184

Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.6	58.2#

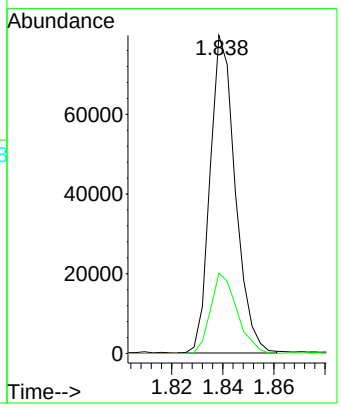




#15
Acetone
Concen: 3.667 ppbv
RT: 1.838 min Scan# 54
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 43 Resp: 54741

Ion	Ratio	Lower	Upper
43	100		
58	27.0	20.2	30.4



Instrument :
MSVOA_L
ClientSampleId :
SV1

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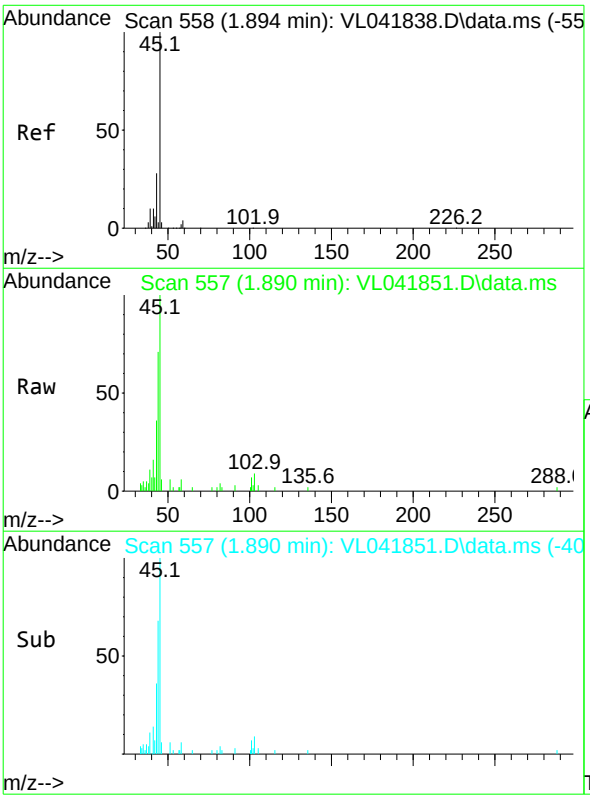
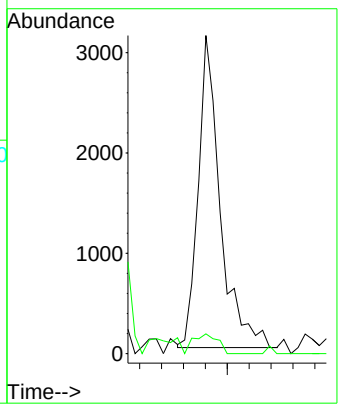
Supervised By :Mahesh Dadoda 01/09/2025

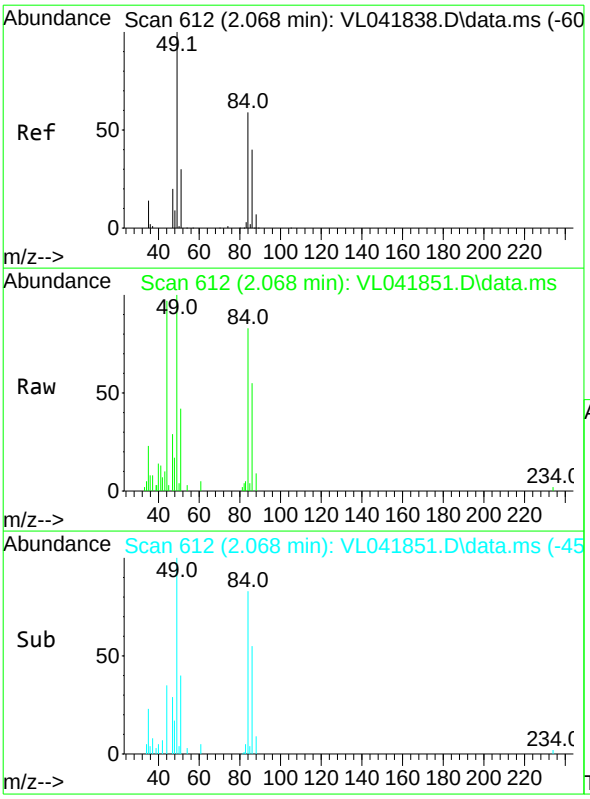


#19
Isopropyl Alcohol
Concen: 0.310 ppbv
RT: 1.890 min Scan# 557
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 45 Resp: 2170

Ion	Ratio	Lower	Upper
45	100		
58	680.9	2.1	3.1#

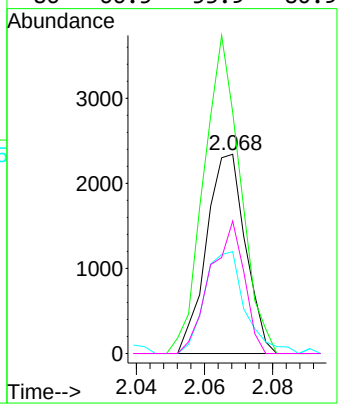




#20
Methylene Chloride
Concen: 0.437 ppbv
RT: 2.068 min Scan# 61
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 84 Resp: 1866

Ion	Ratio	Lower	Upper
84	100		
49	121.1	137.8	206.8#
51	51.1	43.9	65.9
86	66.5	53.9	80.9



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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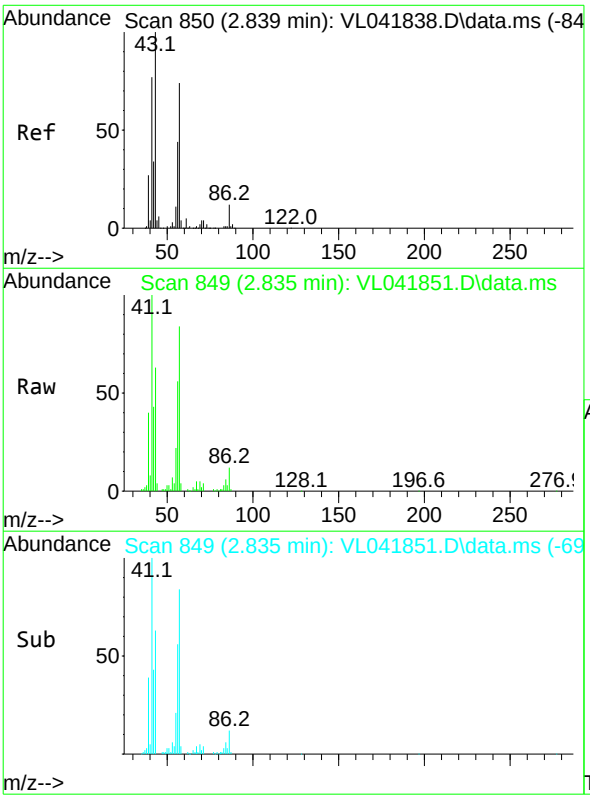
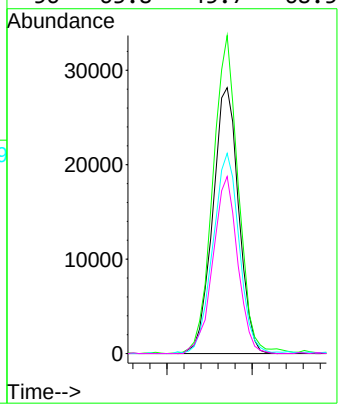
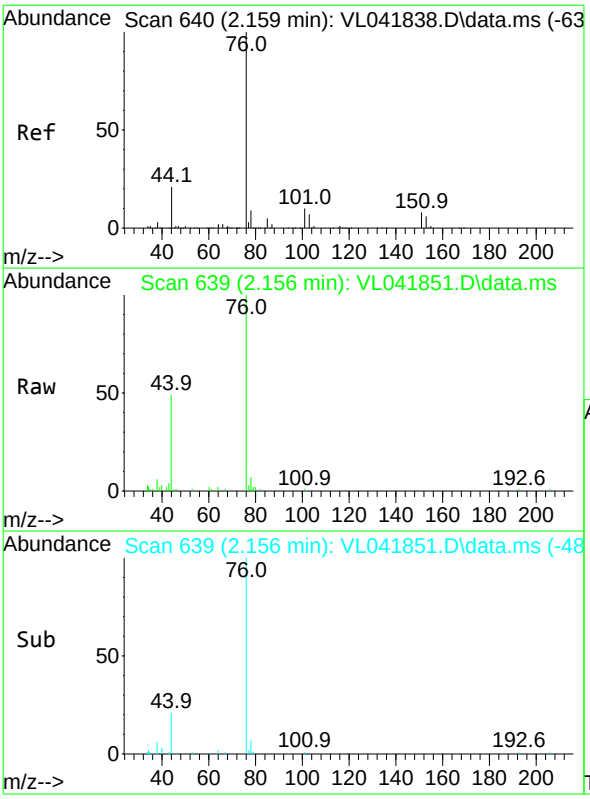


#26
Hexane
Concen: 3.423 ppbv
RT: 2.835 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 57 Resp: 29745

Ion	Ratio	Lower	Upper
57	100		
41	118.2	84.0	126.0
43	77.6	218.4	327.6#
56	63.8	45.7	68.5





#27
Carbon Disulfide
Concen: 0.567 ppbv
RT: 2.156 min Scan# 63
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 76 Resp: 4672

Ion	Ratio	Lower	Upper
76	100		
44	95.9	19.8	29.8#
78	11.3	9.8	14.8

Instrument :
MSVOA_L
ClientSampleId :
SV1

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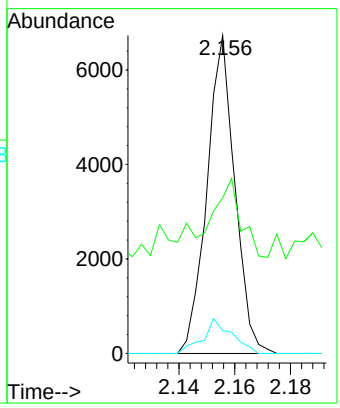
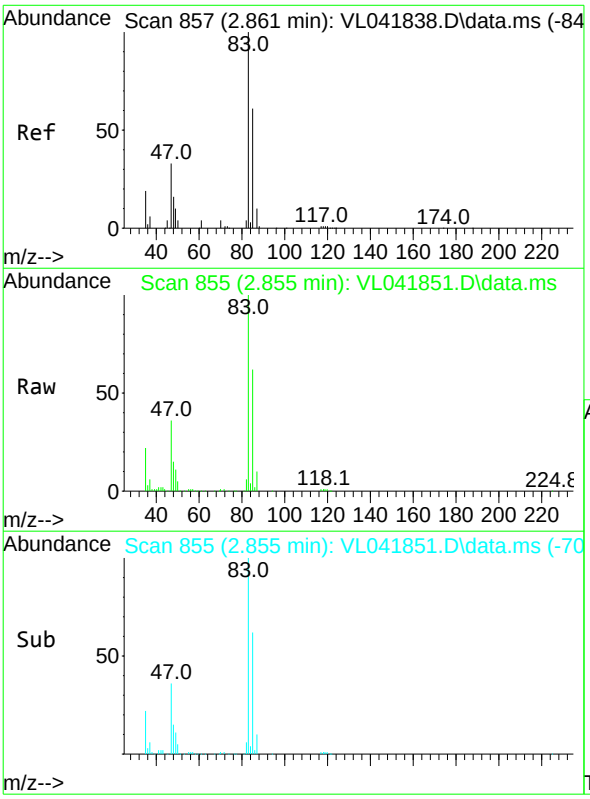
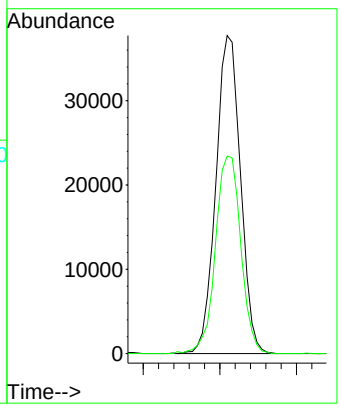


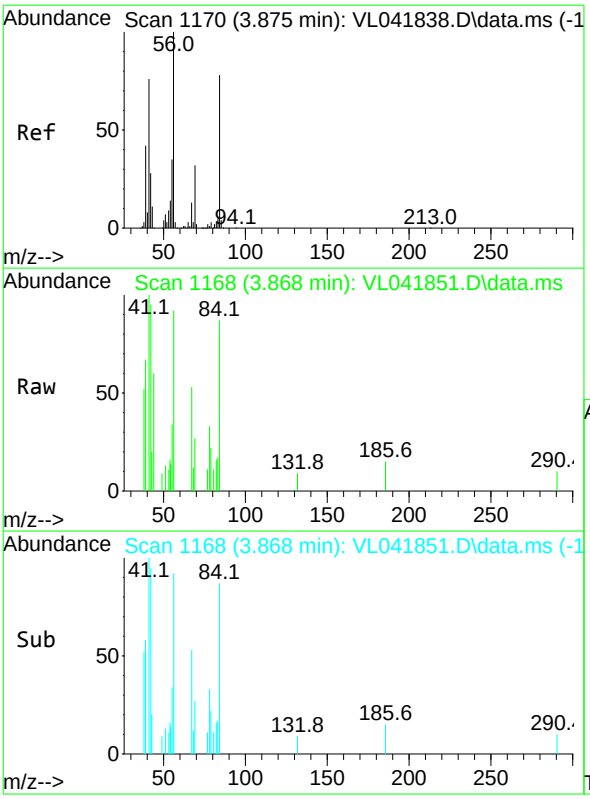


#29
Chloroform
Concen: 2.610 ppbv
RT: 2.855 min Scan# 855
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 83 Resp: 42132

Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.6	74.4





#30
Cyclohexane
Concen: 0.108 ppbv m
RT: 3.868 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 84 Resp: 710

Ion	Ratio	Lower	Upper
84	100		
56	148.3	105.0	157.6
41	140.1	78.9	118.3#

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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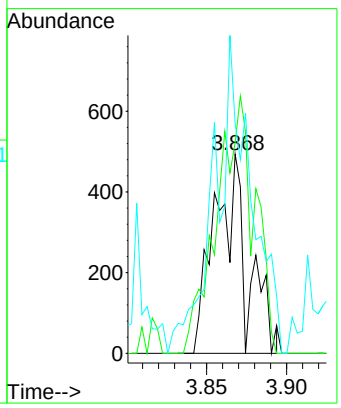
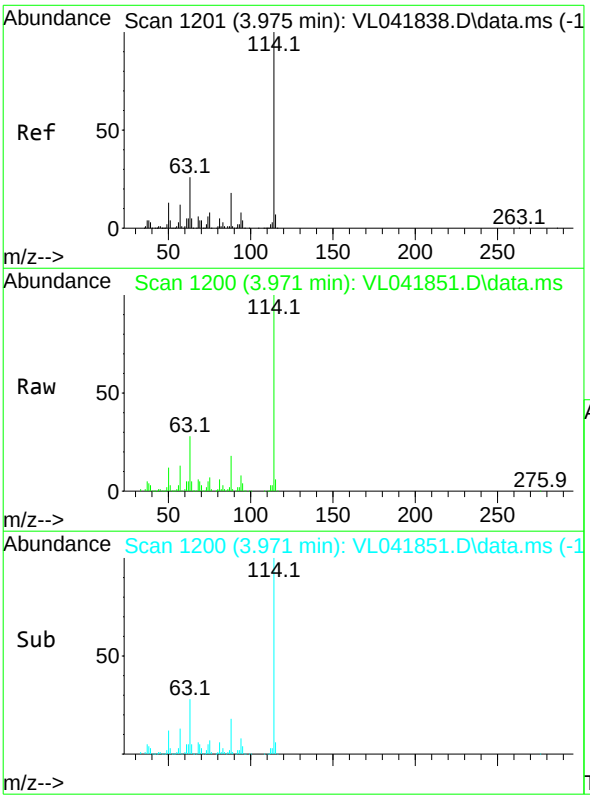
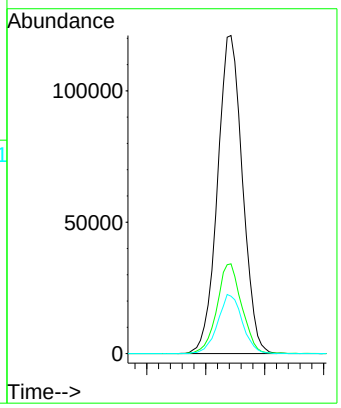


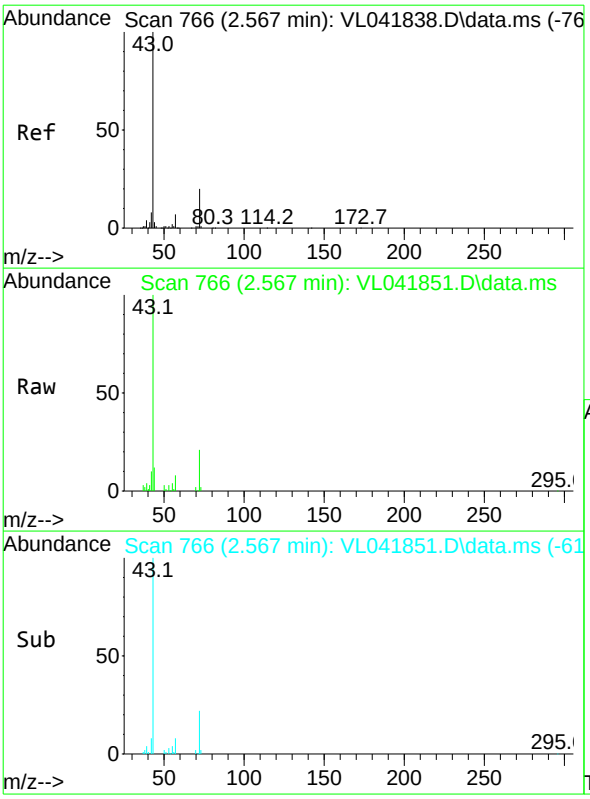


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.971 min Scan# 1200
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:114 Resp: 178085

Ion	Ratio	Lower	Upper
114	100		
63	28.0	22.3	33.5
88	18.2	14.9	22.3





#34
2-Butanone
Concen: 0.907 ppbv
RT: 2.567 min Scan# 76
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 43 Resp: 12723

Ion	Ratio	Lower	Upper
43	100		
72	20.8	16.6	25.0

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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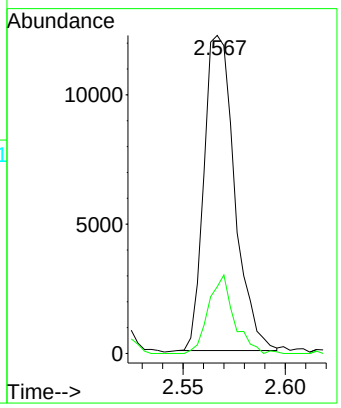
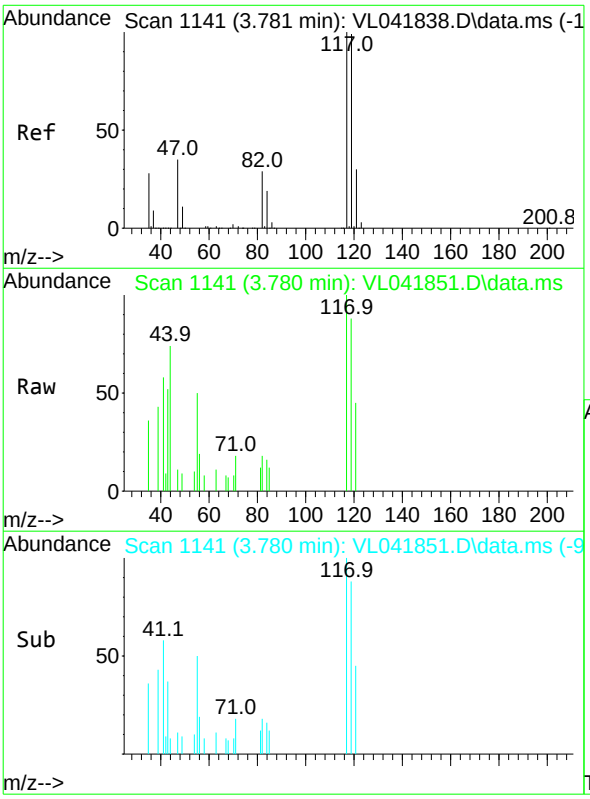
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

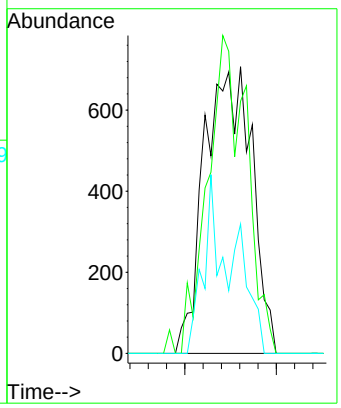


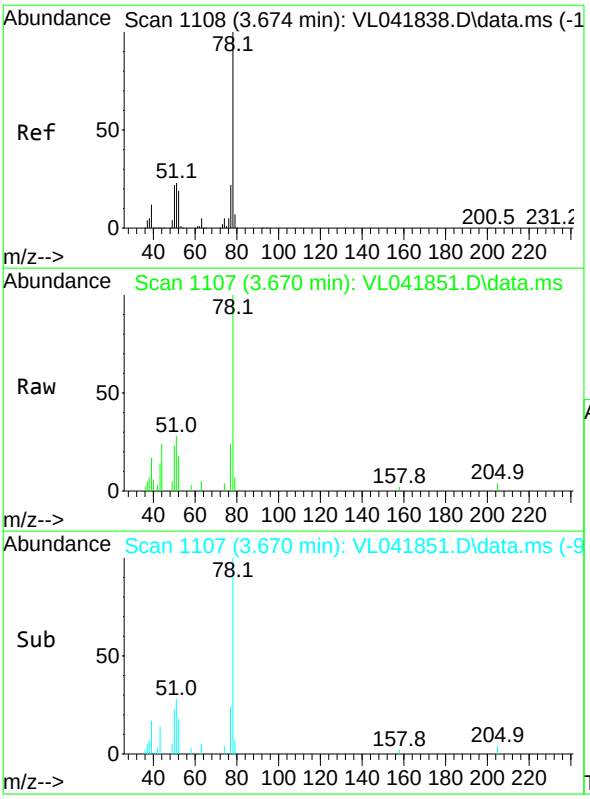


#35
Carbon Tetrachloride
Concen: 0.095 ppbv m
RT: 3.780 min Scan# 1141
Delta R.T. -0.000 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:117 Resp: 1277

Ion	Ratio	Lower	Upper
117	100		
119	88.0	79.1	118.7
121	45.1	24.2	36.2#

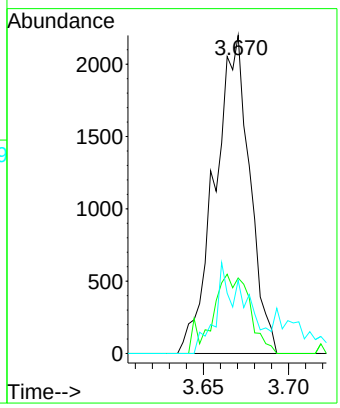




#36
Benzene
Concen: 0.185 ppbv
RT: 3.670 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 78 Resp: 3143

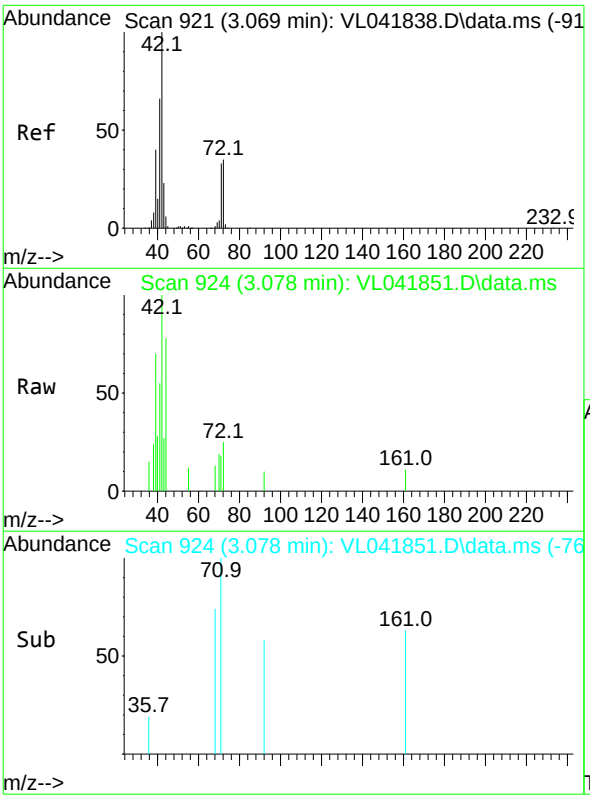
Ion	Ratio	Lower	Upper
78	100		
77	23.7	17.4	26.0
50	23.0	17.3	25.9



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

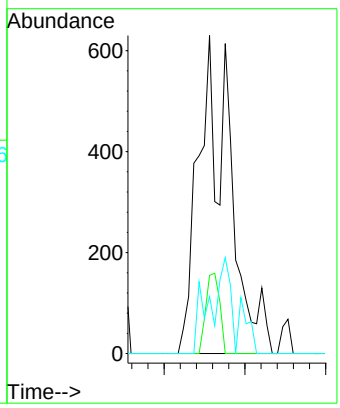
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

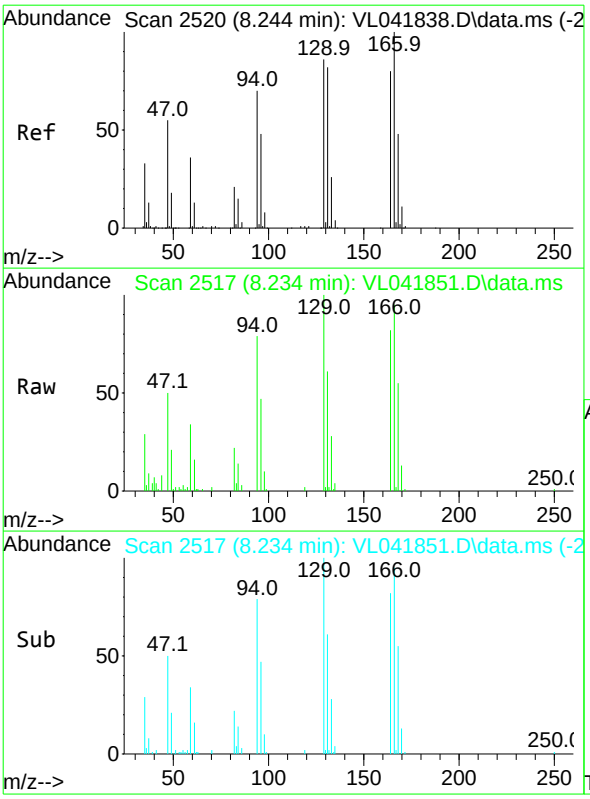


#41
Tetrahydrofuran
Concen: 0.128 ppbv m
RT: 3.078 min Scan# 924
Delta R.T. 0.010 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 42 Resp: 846

Ion	Ratio	Lower	Upper
42	100		
72	11.1	27.9	41.9#
71	24.9	26.5	39.7#

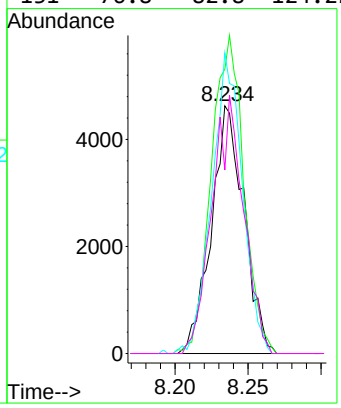




#52
Tetrachloroethene
Concen: 1.425 ppbv
RT: 8.234 min Scan# 25
Delta R.T. -0.010 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:164 Resp: 7190

Ion	Ratio	Lower	Upper
164	100		
166	114.8	100.4	150.6
129	121.4	85.9	128.9
131	76.8	82.8	124.2#



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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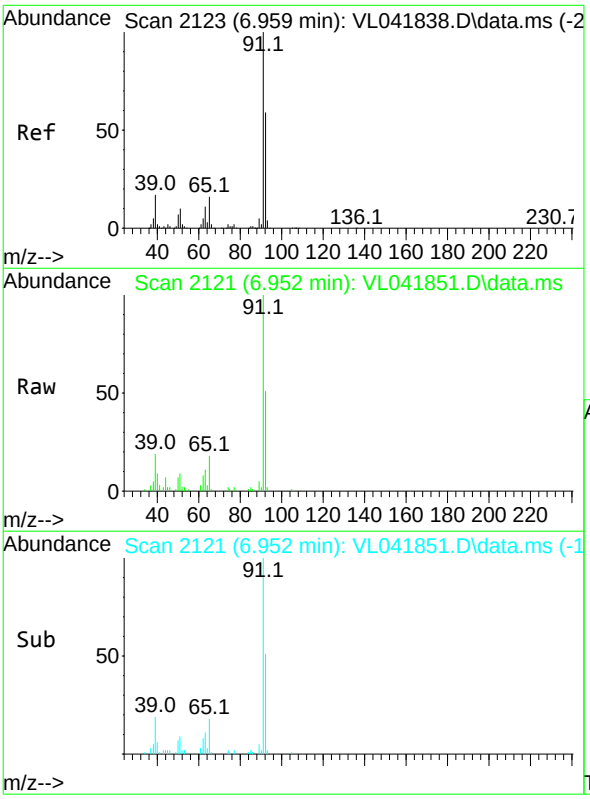
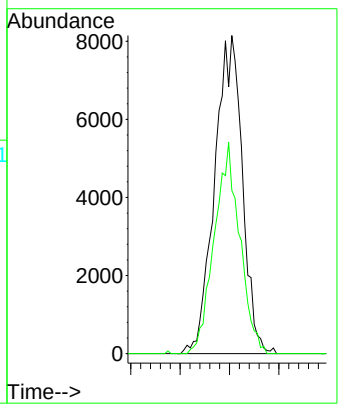
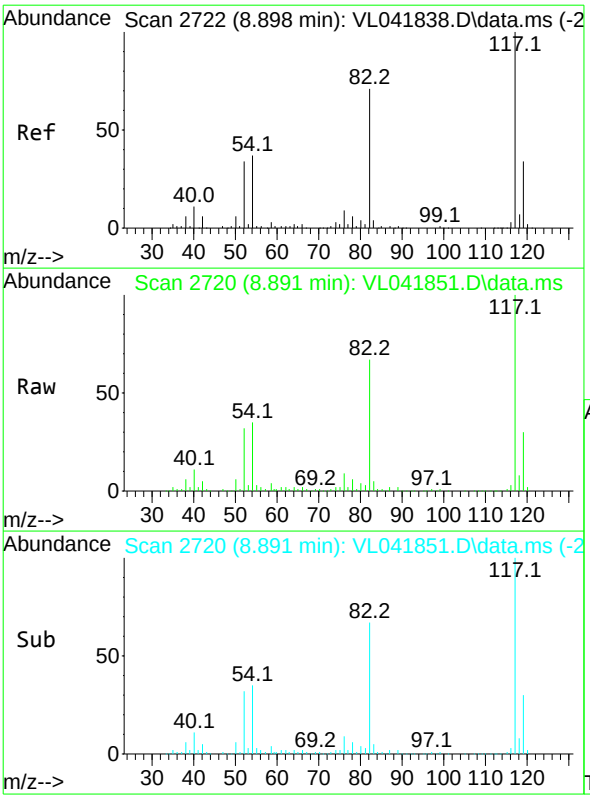


#53
Toluene
Concen: 1.048 ppbv m
RT: 6.952 min Scan# 2121
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 91 Resp: 15874

Ion	Ratio	Lower	Upper
91	100		
92	60.9	47.8	71.6

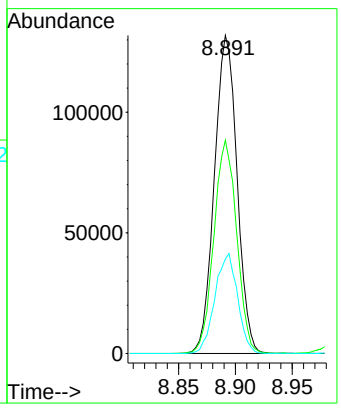




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 27
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:117 Resp: 183102

Ion	Ratio	Lower	Upper
117	100		
82	67.6	59.1	88.7
119	31.5	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/09/2025
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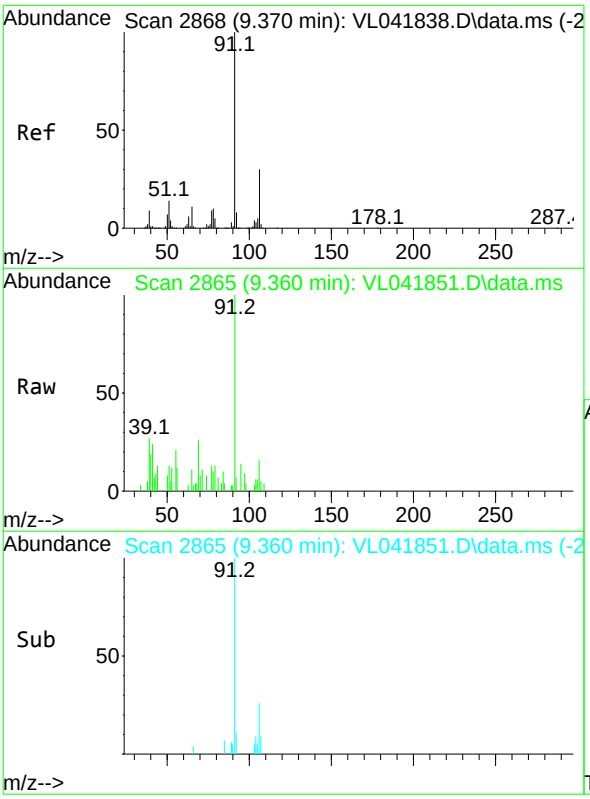
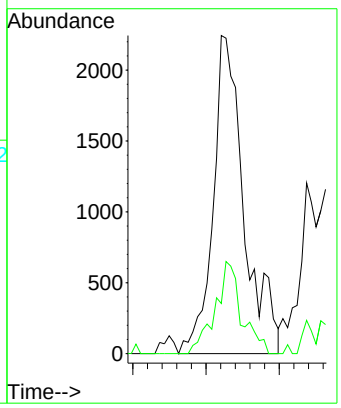
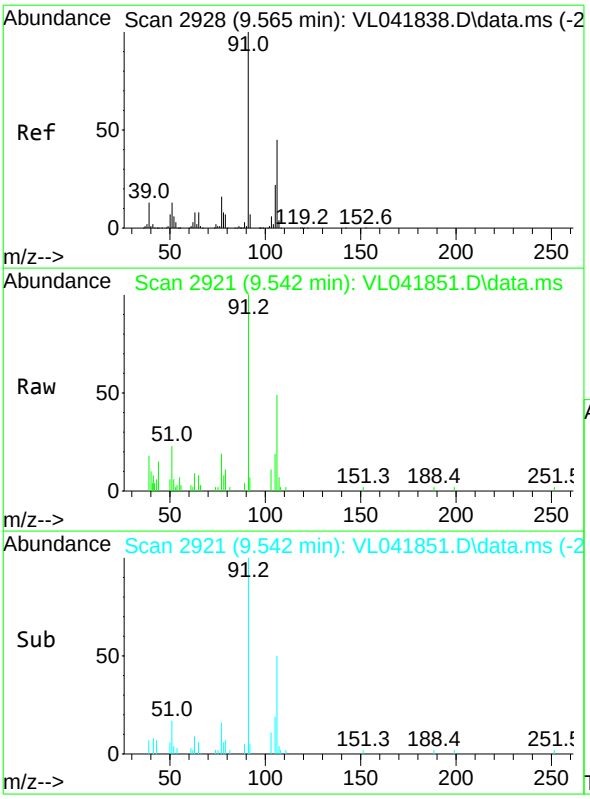


#58
Ethyl Benzene
Concen: 0.132 ppbv m
RT: 9.360 min Scan# 2865
Delta R.T. -0.010 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 91 Resp: 3296

Ion	Ratio	Lower	Upper
91	100		
106	15.8	23.8	35.8#





#59
m/p-Xylene
Concen: 0.304 ppbv m
RT: 9.542 min Scan# 29
Delta R.T. -0.023 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 91 Resp: 6686

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.7	55.1#

Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
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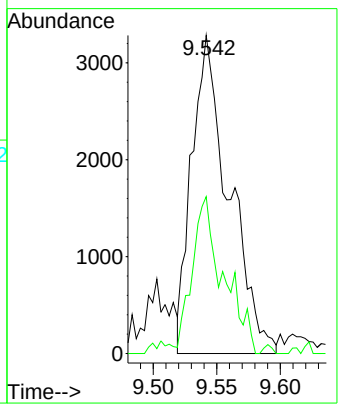
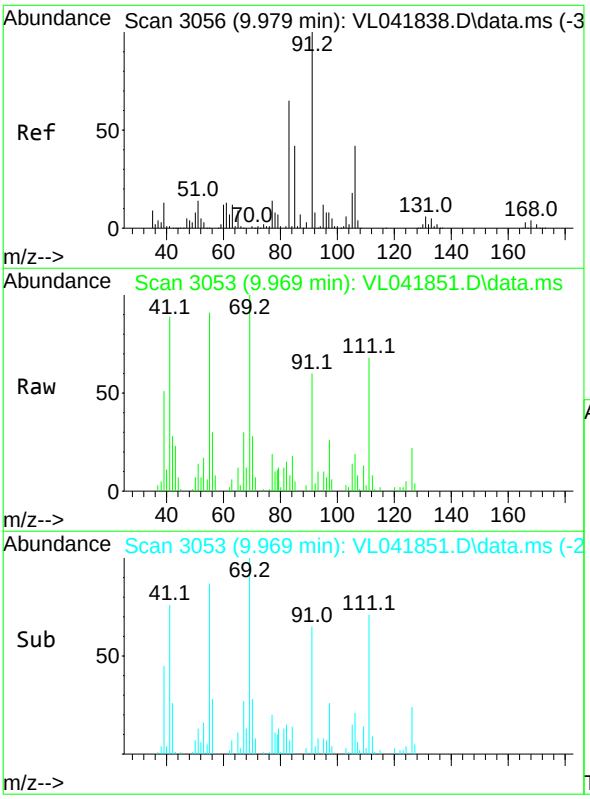
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

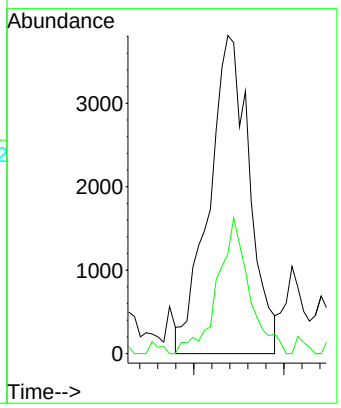


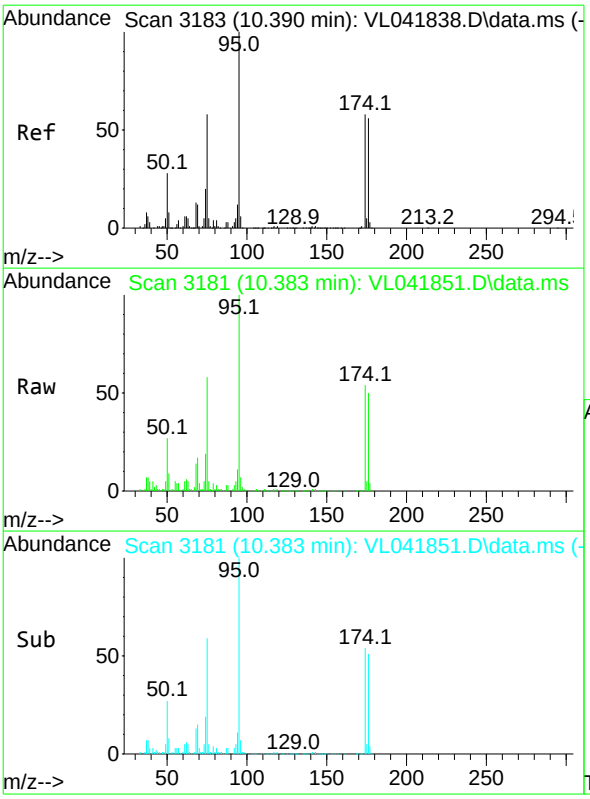


#60
o-Xylene
Concen: 0.277 ppbv m
RT: 9.969 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 91 Resp: 5929

Ion	Ratio	Lower	Upper
91	100		
106	35.7	21.9	65.5

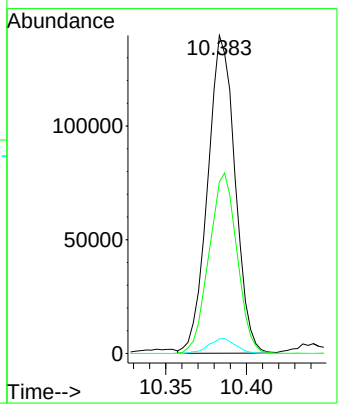




#68
1-Bromo-4-Fluorobenzene
Concen: 10.518 ppbv
RT: 10.383 min Scan# 31
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion: 95 Resp: 164947

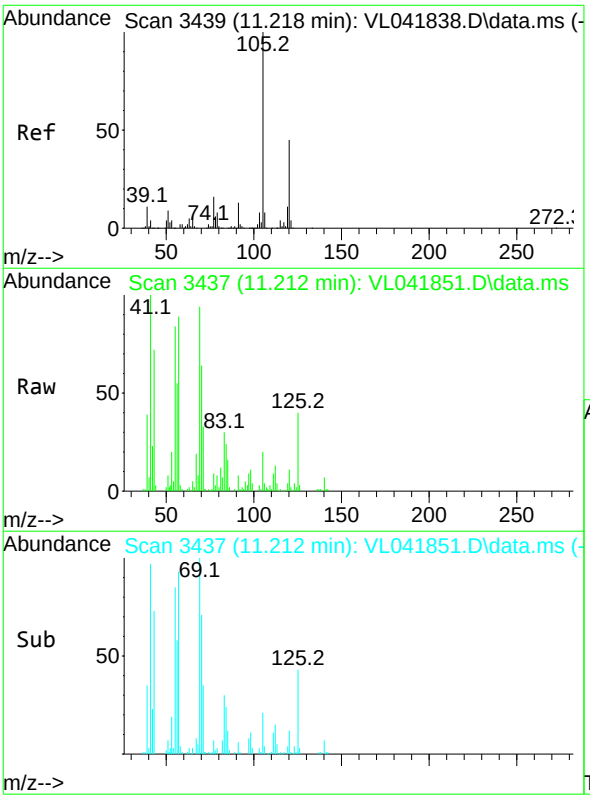
Ion	Ratio	Lower	Upper
95	100		
174	58.0	47.6	71.4
175	4.7	3.8	5.6



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

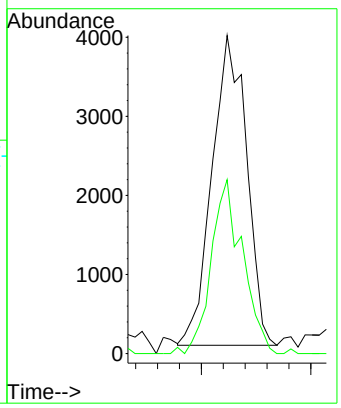
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

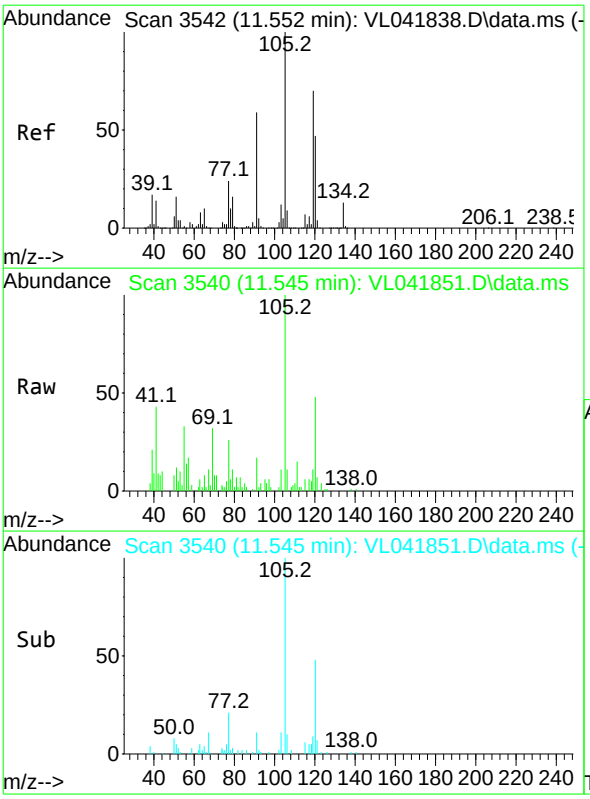


#73
1,3,5-Trimethylbenzene
Concen: 0.190 ppbv
RT: 11.212 min Scan# 3437
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:105 Resp: 4304

Ion	Ratio	Lower	Upper
105	100		
120	56.1	35.9	53.9#

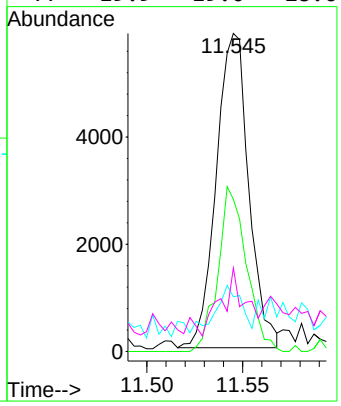




#74
1,2,4-Trimethylbenzene
Concen: 0.263 ppbv
RT: 11.545 min Scan# 35
Delta R.T. -0.007 min
Lab File: VL041851.D
Acq: 07 Jan 2025 19:05

Tgt Ion:105 Resp: 6914

Ion	Ratio	Lower	Upper
105	100		
120	49.0	37.4	56.0
91	7.9	47.4	71.2#
77	19.9	19.0	28.6



Instrument :
MSVOA_L
ClientSampleId :
SV1

Manual Integrations
APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

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

Report of Analysis

Client:	GFE LLC	Date Collected:	01/07/25
Project:	182 Ralph Ave, Brooklyn NY	Date Received:	01/07/25
Client Sample ID:	IA1	SDG No.:	Q1031
Lab Sample ID:	Q1031-02	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
VL041847.D	1		01/07/25 16:59	VL010725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.60			65 - 135	96%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	83900		2.8			
540-36-3	1,4-Difluorobenzene	185000		3.978			
3114-55-4	Chlorobenzene-d5	157000		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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041847.D
Acq On : 07 Jan 2025 16:59
Operator : SY/MD
Sample : Q1031-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:55:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	83947	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.978	114	185037	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	157066	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	129360	9.616	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.502	85	5328	0.387	ppbv	96
3) Chlorodifluoromethane	1.479	51	5658	0.430	ppbv #	85
4) Chloromethane	1.538	50	2740	0.484	ppbv	96
9) Propene	1.489	41	4659	1.017	ppbv	88
11) Trichlorofluoromethane	1.884	101	2829m	0.202	ppbv	
13) Ethanol	1.729	45	54981	91.346	ppbv	100
15) Acetone	1.842	43	33988	2.199	ppbv	95
20) Methylene Chloride	2.069	84	5712	1.293	ppbv	92
26) Hexane	2.839	57	2079	0.231	ppbv #	48
29) Chloroform	2.858	83	4282	0.256	ppbv	100
34) 2-Butanone	2.577	43	1609	0.110	ppbv	99
35) Carbon Tetrachloride	3.784	117	1009	0.072	ppbv #	72
36) Benzene	3.677	78	4280m	0.242	ppbv	
53) Toluene	6.956	91	4096m	0.260	ppbv	
59) m/p-Xylene	9.539	91	1985m	0.105	ppbv	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041847.D
Acq On : 07 Jan 2025 16:59
Operator : SY/MD
Sample : Q1031-02
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:55:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
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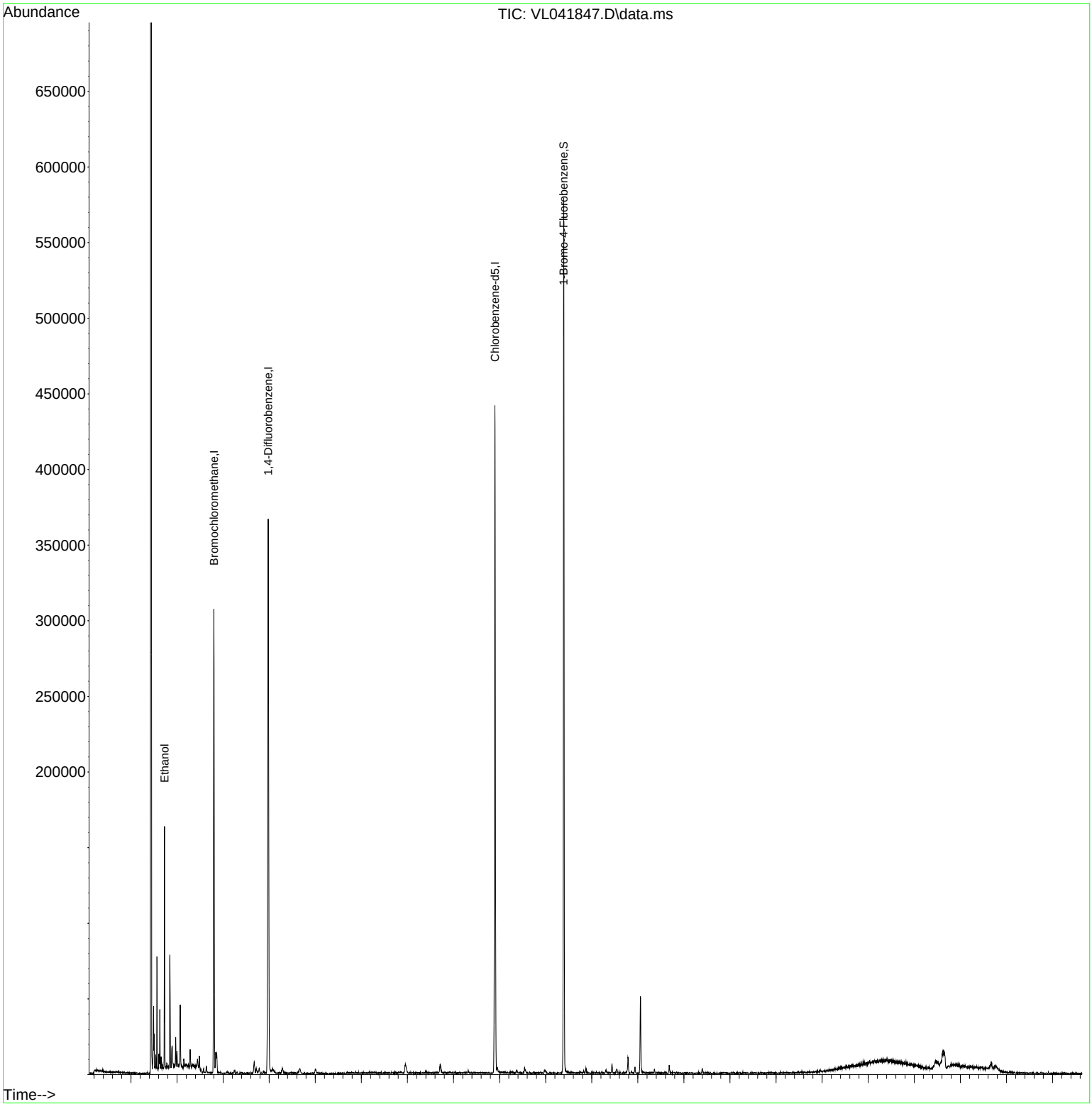
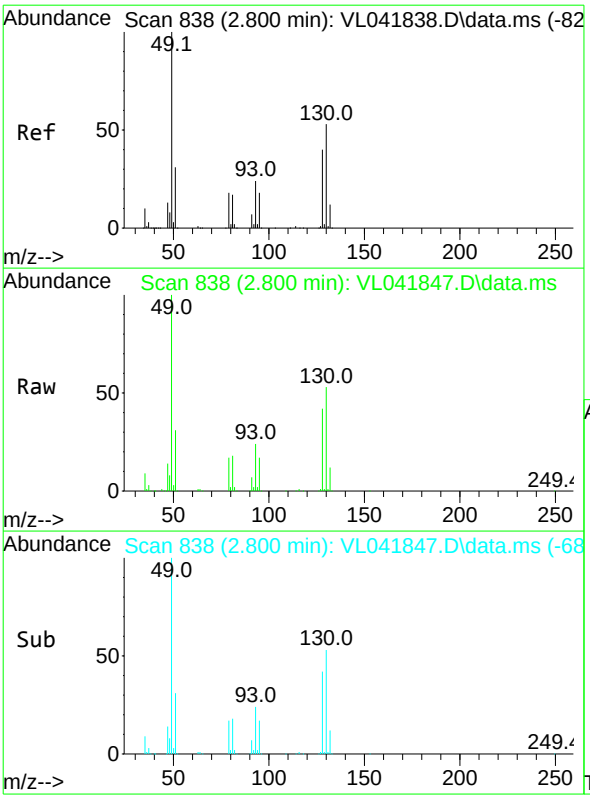
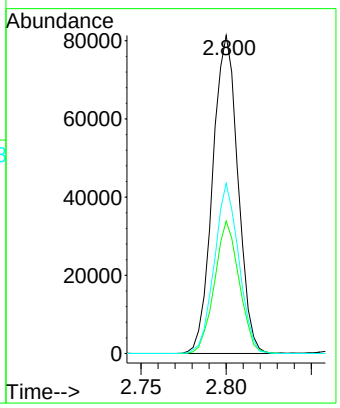




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 83
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 49 Resp: 83947

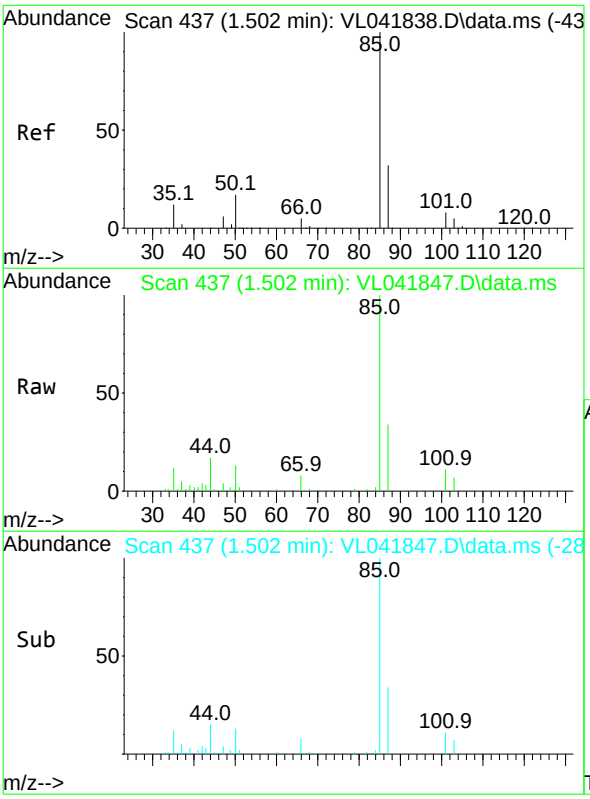
Ion	Ratio	Lower	Upper
49	100		
128	40.6	19.7	59.1
130	51.8	26.4	79.2



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
APPROVED

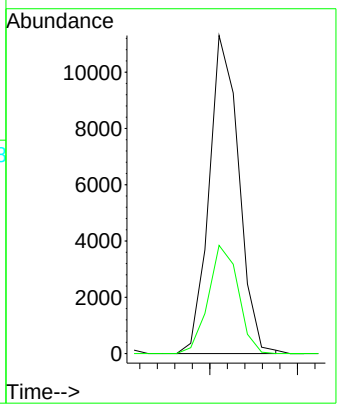
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

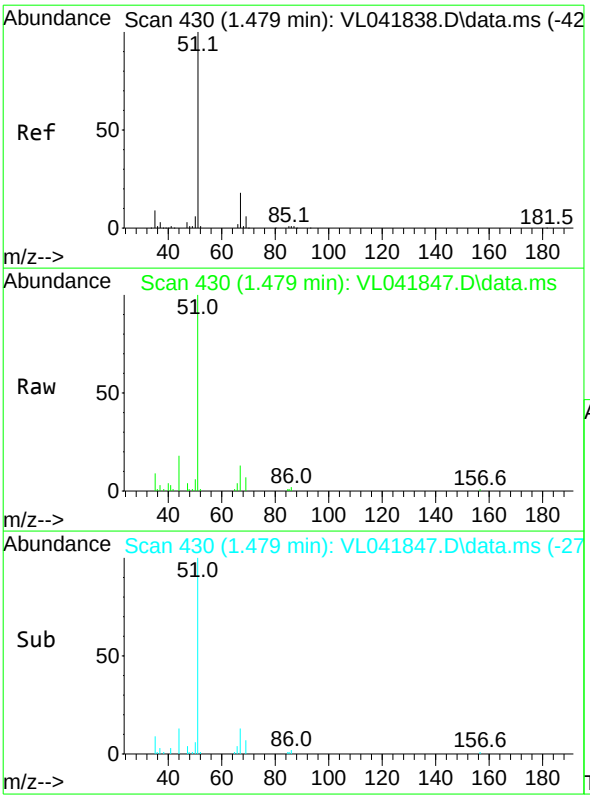


#2
Dichlorodifluoromethane
Concen: 0.387 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 85 Resp: 5328

Ion	Ratio	Lower	Upper
85	100		
87	34.0	25.6	38.4

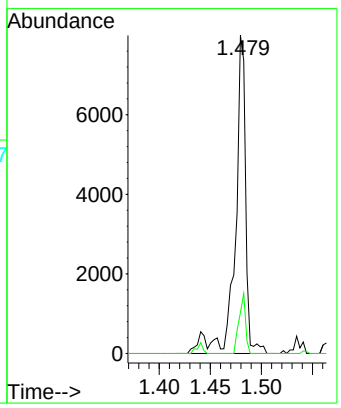




#3
Chlorodifluoromethane
Concen: 0.430 ppbv
RT: 1.479 min Scan# 43
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 51 Resp: 5658

Ion	Ratio	Lower	Upper
51	100		
67	11.8	14.6	22.0#



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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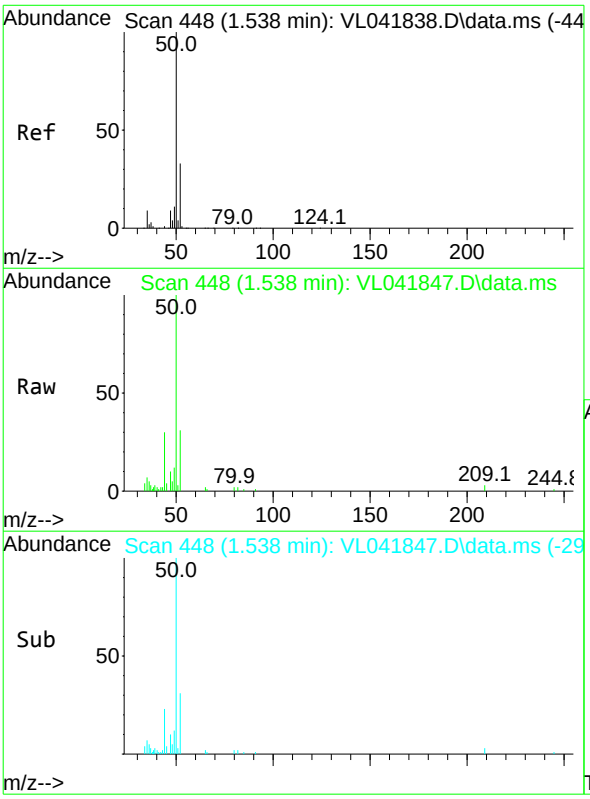
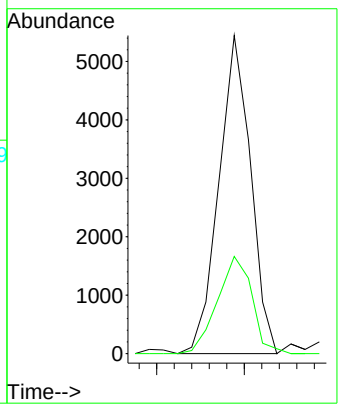
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

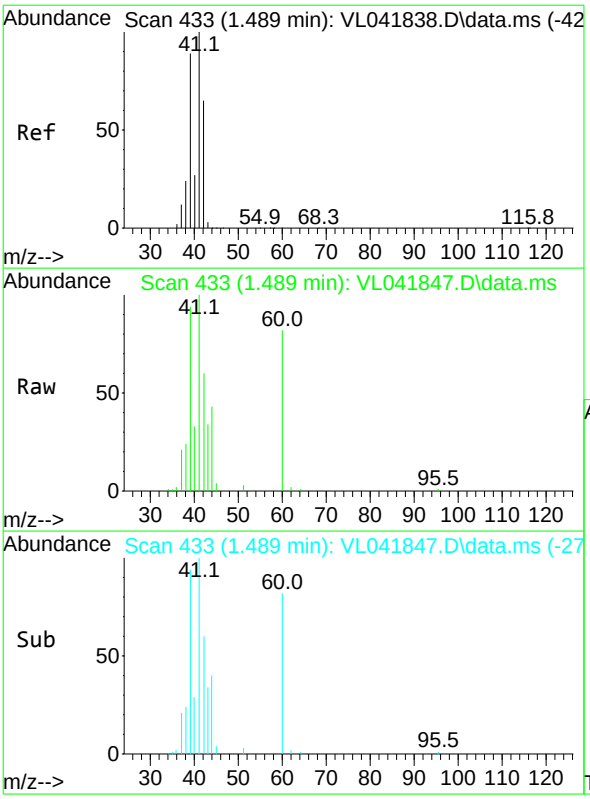


#4
Chloromethane
Concen: 0.484 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 50 Resp: 2740

Ion	Ratio	Lower	Upper
50	100		
52	30.5	26.1	39.1

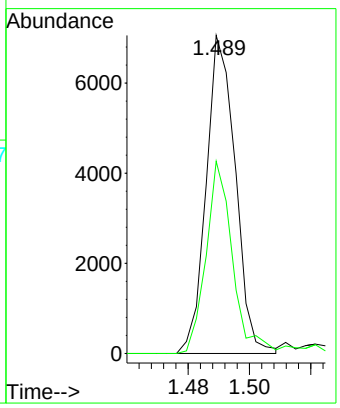




#9
Propene
Concen: 1.017 ppbv
RT: 1.489 min Scan# 43
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 41 Resp: 4659

Ion	Ratio	Lower	Upper
41	100		
42	57.4	53.9	80.9



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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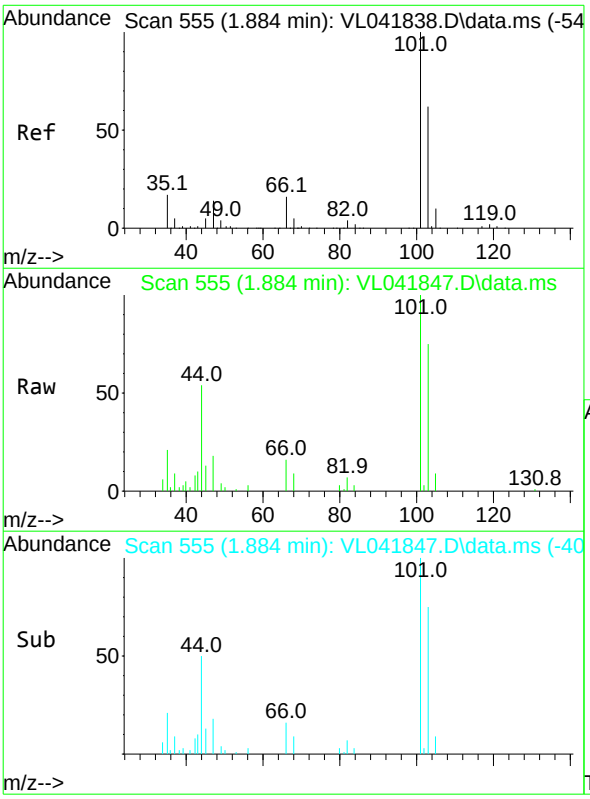
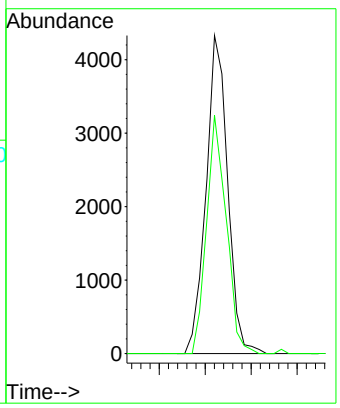
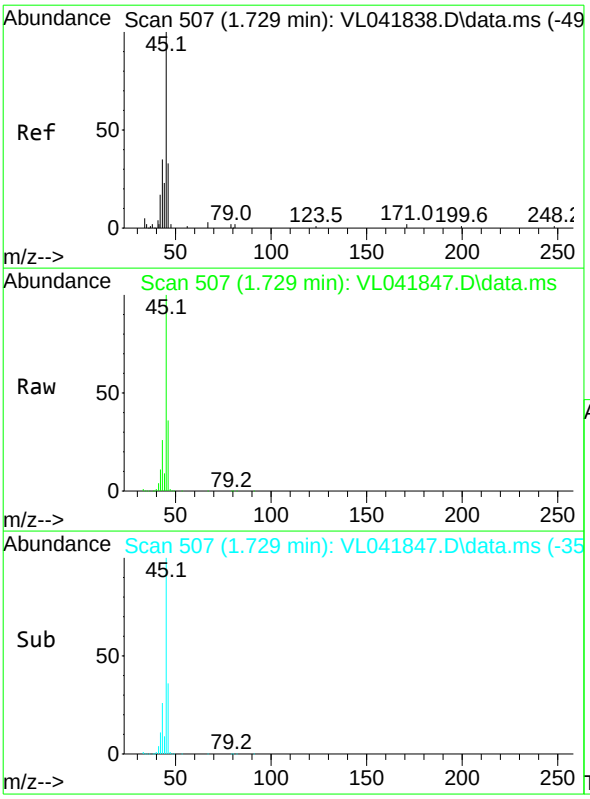


#11
Trichlorofluoromethane
Concen: 0.202 ppbv m
RT: 1.884 min Scan# 555
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion:101 Resp: 2829

Ion	Ratio	Lower	Upper
101	100		
103	74.9	49.4	74.0#

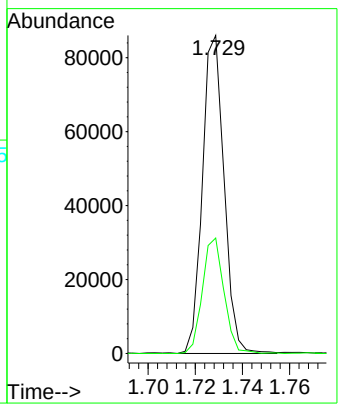




#13
Ethanol
Concen: 91.346 ppbv
RT: 1.729 min Scan# 50
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 45 Resp: 54981

Ion	Ratio	Lower	Upper
45	100		
46	36.5	14.6	58.2



Instrument :
MSVOA_L
ClientSampleId :
IA1

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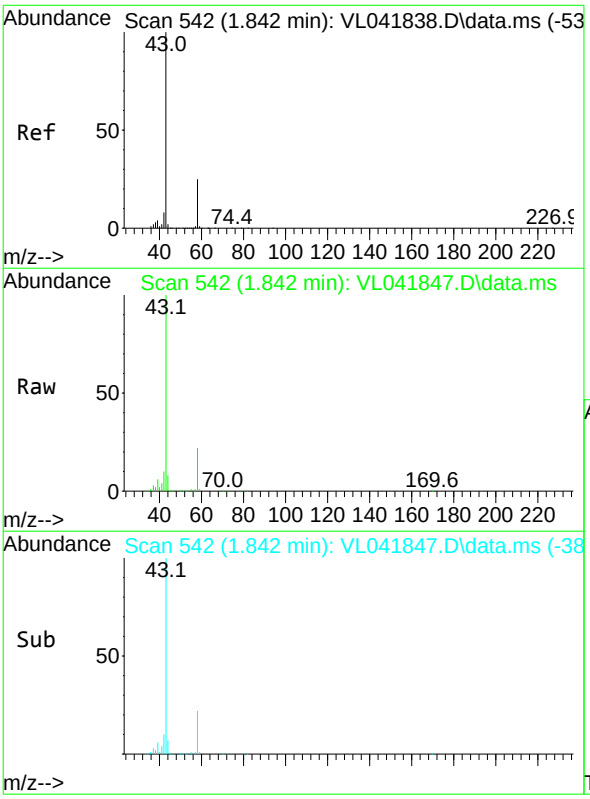
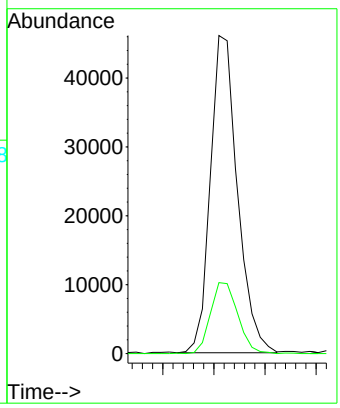
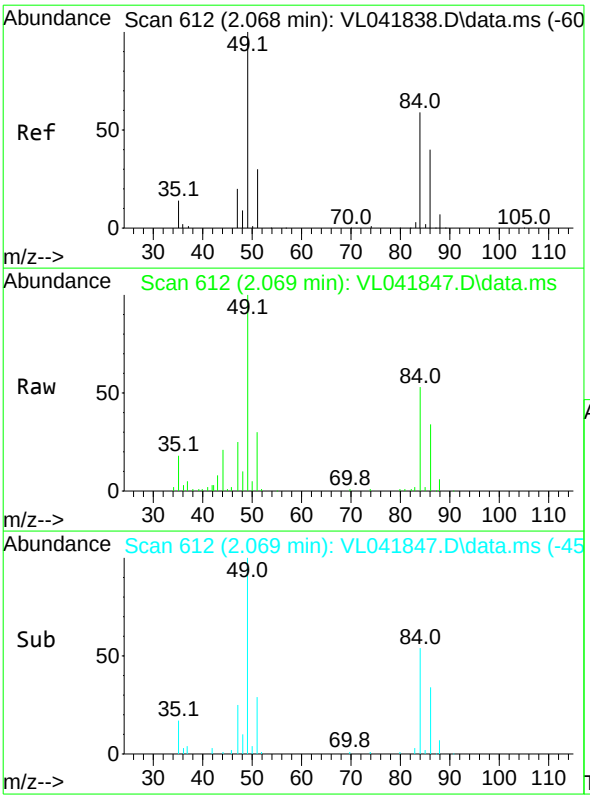


#15
Acetone
Concen: 2.199 ppbv
RT: 1.842 min Scan# 542
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 43 Resp: 33988

Ion	Ratio	Lower	Upper
43	100		
58	22.6	20.2	30.4

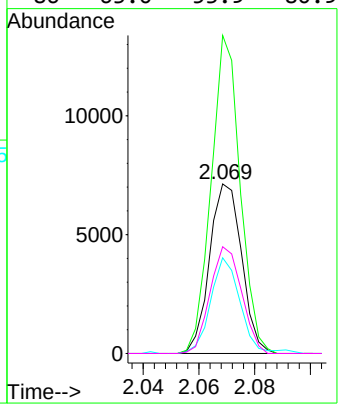




#20
Methylene Chloride
Concen: 1.293 ppbv
RT: 2.069 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 84 Resp: 5712

Ion	Ratio	Lower	Upper
84	100		
49	187.6	137.8	206.8
51	56.4	43.9	65.9
86	63.0	53.9	80.9



Instrument :
MSVOA_L
ClientSampleId :
IA1

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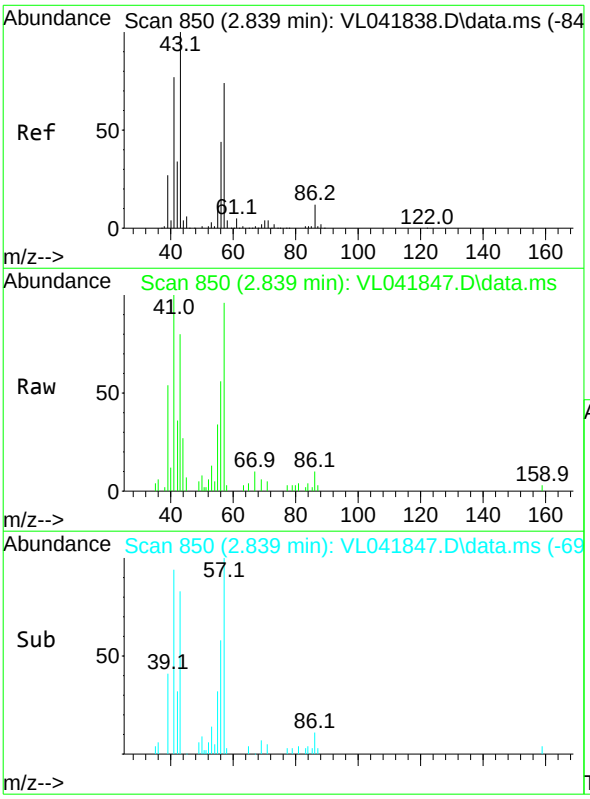
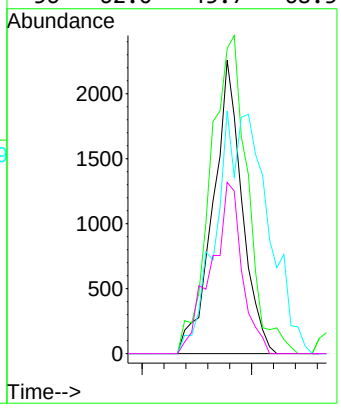
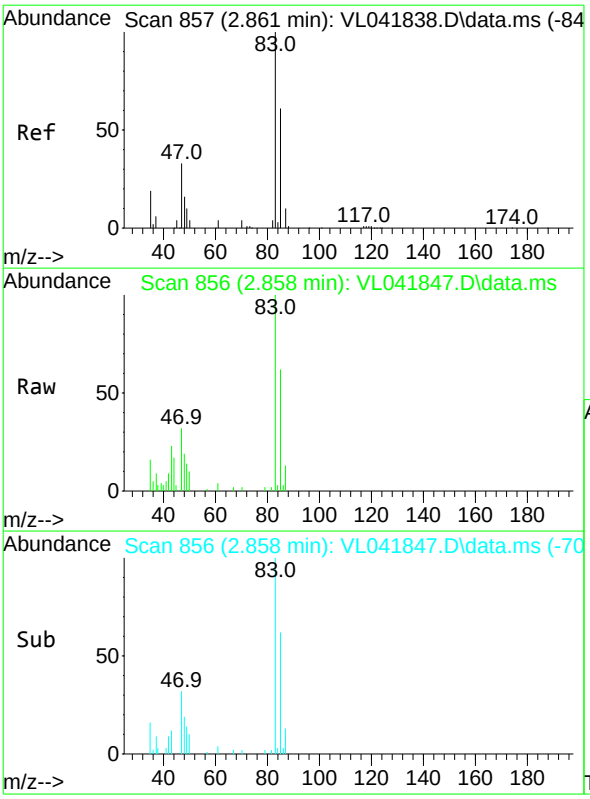


#26
Hexane
Concen: 0.231 ppbv
RT: 2.839 min Scan# 850
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 57 Resp: 2079

Ion	Ratio	Lower	Upper
57	100		
41	142.7	84.0	126.0#
43	147.7	218.4	327.6#
56	62.0	45.7	68.5

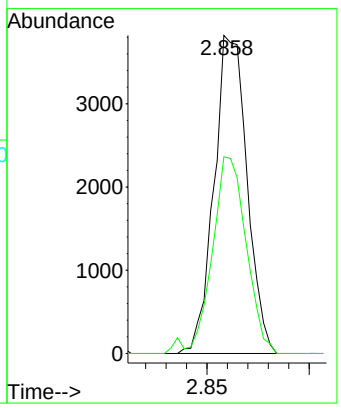




#29
Chloroform
Concen: 0.256 ppbv
RT: 2.858 min Scan# 85
Delta R.T. -0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 83 Resp: 4282

Ion	Ratio	Lower	Upper
83	100		
85	61.9	49.6	74.4



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/09/2025
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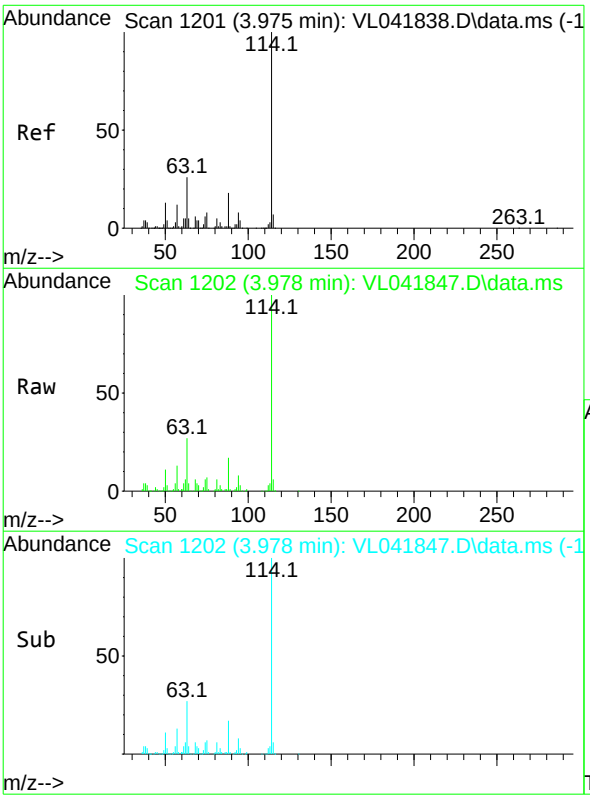
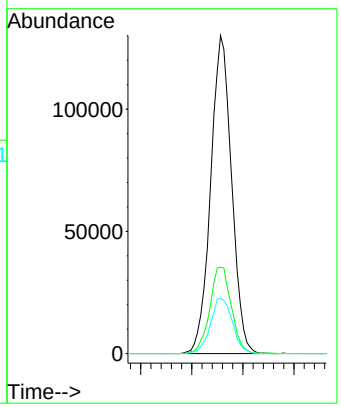
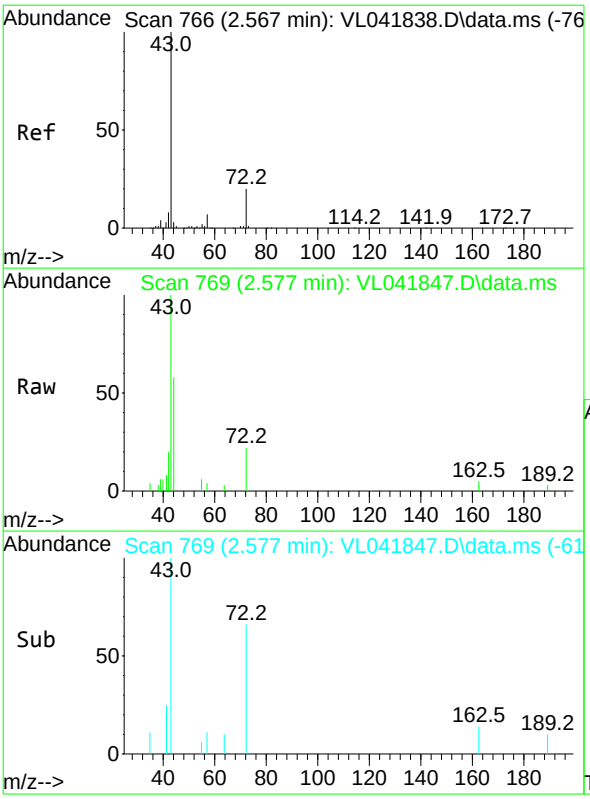


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.978 min Scan# 1202
Delta R.T. 0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion:114 Resp: 185037

Ion	Ratio	Lower	Upper
114	100		
63	28.2	22.3	33.5
88	18.3	14.9	22.3





#34
2-Butanone
Concen: 0.110 ppbv
RT: 2.577 min Scan# 76
Delta R.T. 0.010 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 43 Resp: 1609

Ion	Ratio	Lower	Upper
43	100		
72	20.1	16.6	25.0

Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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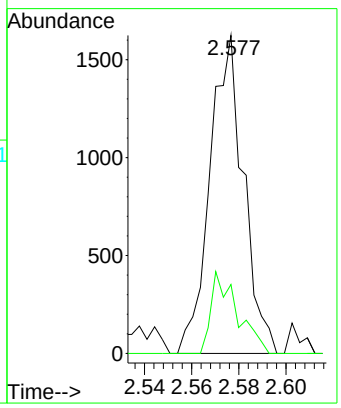
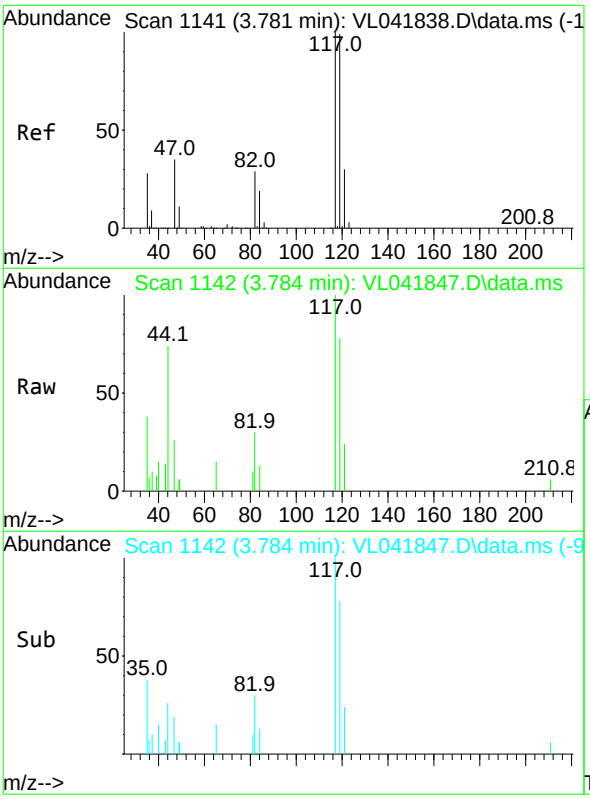
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

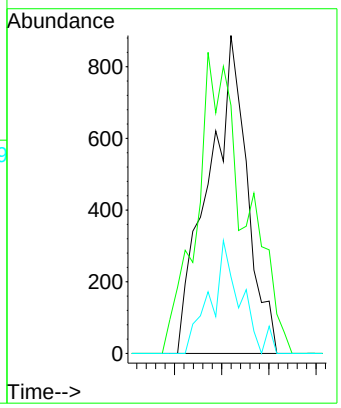


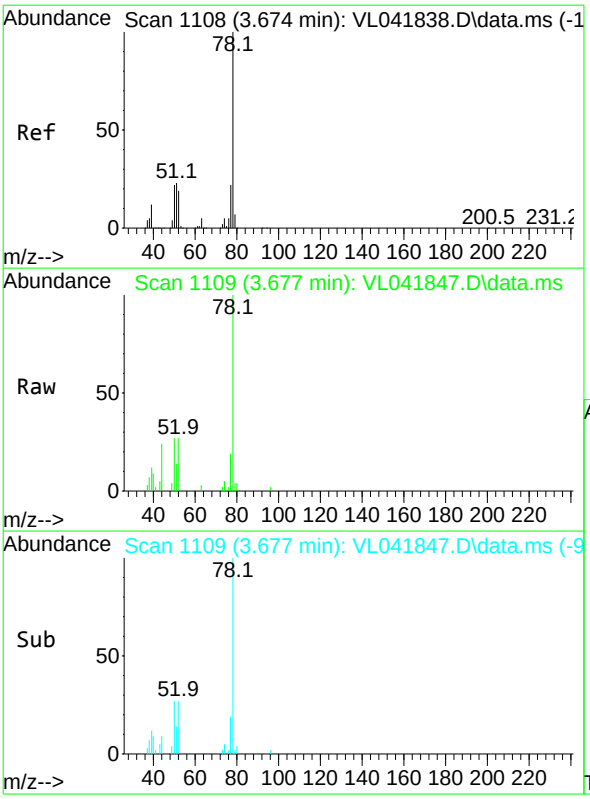


#35
Carbon Tetrachloride
Concen: 0.072 ppbv
RT: 3.784 min Scan# 1142
Delta R.T. 0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion:117 Resp: 1009

Ion	Ratio	Lower	Upper
117	100		
119	65.6	79.1	118.7#
121	24.1	24.2	36.2#

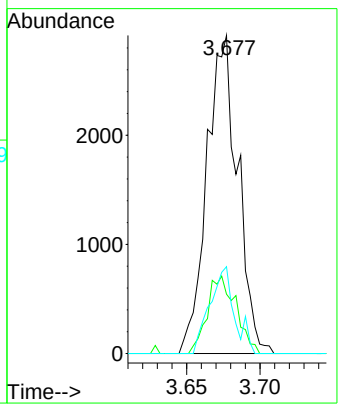




#36
Benzene
Concen: 0.242 ppbv m
RT: 3.677 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 78 Resp: 4280

Ion	Ratio	Lower	Upper
78	100		
77	18.7	17.4	26.0
50	27.3	17.3	25.9#



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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Reviewed By :Semsettin Yesilyurt 01/09/2025
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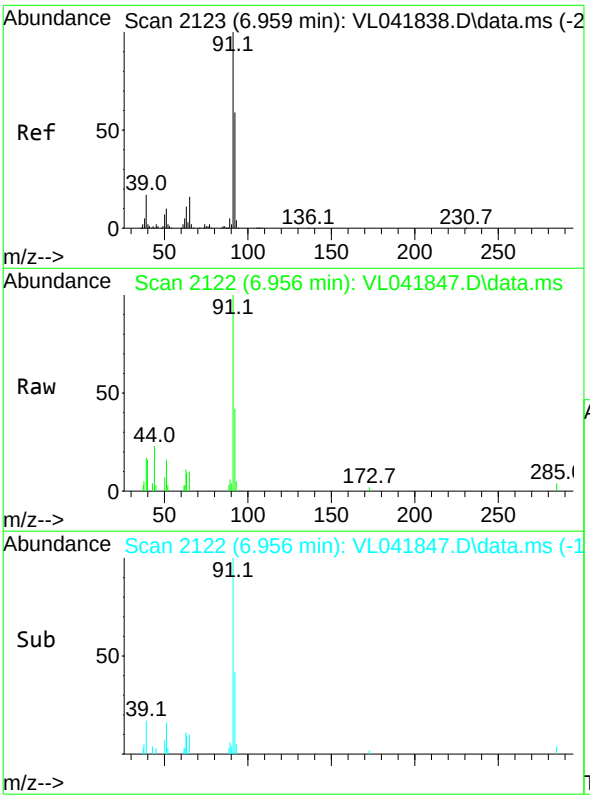
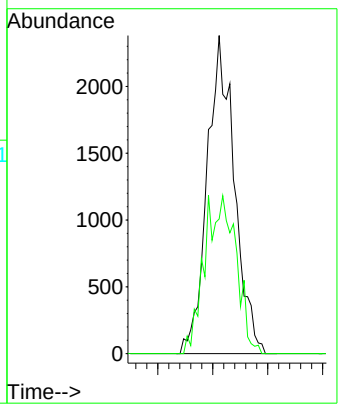
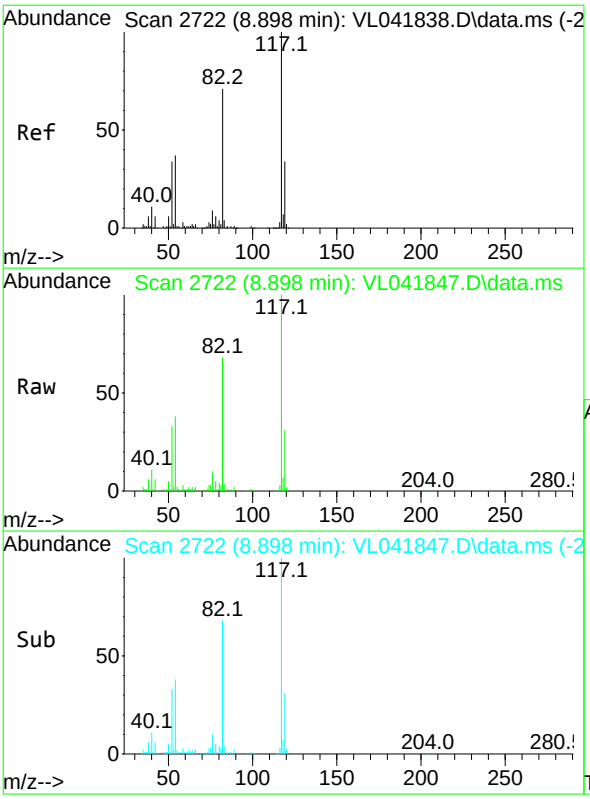


#53
Toluene
Concen: 0.260 ppbv m
RT: 6.956 min Scan# 2122
Delta R.T. -0.003 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 91 Resp: 4096

Ion	Ratio	Lower	Upper
91	100		
92	0.0	47.8	71.6#

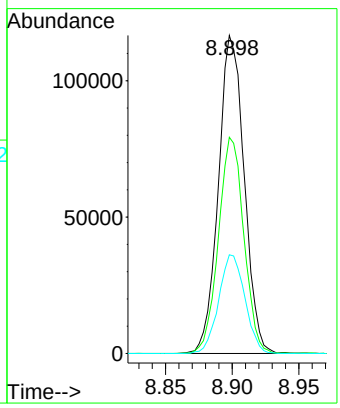




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 27
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion:117 Resp: 157066

Ion	Ratio	Lower	Upper
117	100		
82	67.1	59.1	88.7
119	31.5	27.3	40.9



Instrument :
MSVOA_L
ClientSampleId :
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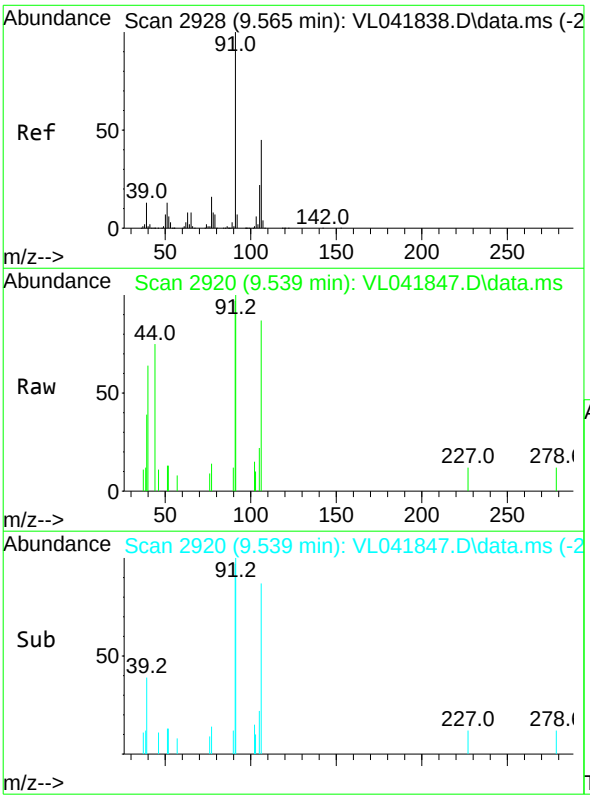
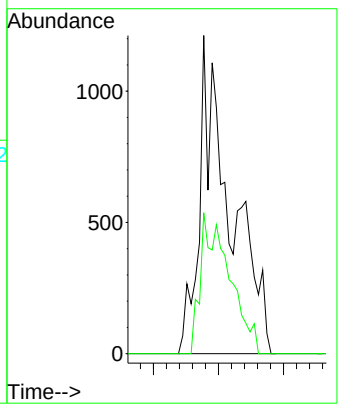
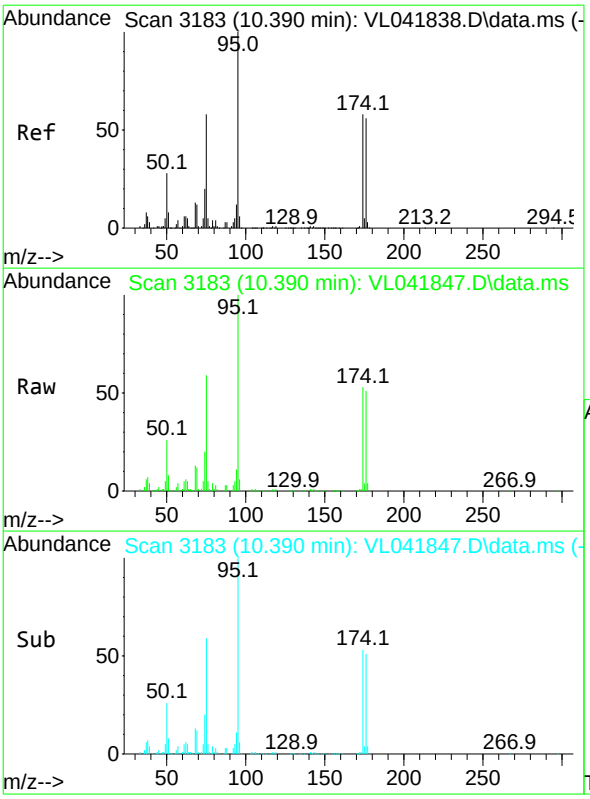


#59
m/p-Xylene
Concen: 0.105 ppbv m
RT: 9.539 min Scan# 2920
Delta R.T. -0.026 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 91 Resp: 1985

Ion	Ratio	Lower	Upper
91	100		
106	0.0	36.7	55.1#

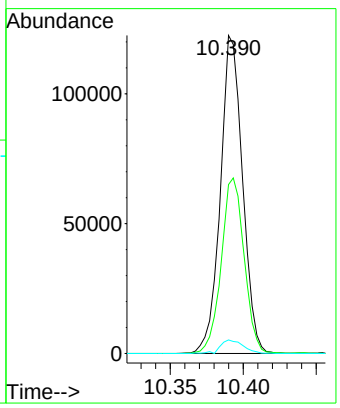




#68
1-Bromo-4-Fluorobenzene
Concen: 9.616 ppbv
RT: 10.390 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL041847.D
Acq: 07 Jan 2025 16:59

Tgt Ion: 95 Resp: 129360

Ion	Ratio	Lower	Upper
95	100		
174	57.4	47.6	71.4
175	4.4	3.8	5.6



Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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Supervised By :Mahesh Dadoda 01/09/2025

CALIBRATION SUMMARY

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1031 SAS No.: Q1031 SDG No.: Q1031

Instrument ID: MSVOA_L Calibration Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:18 12:25

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

LAB FILE ID: RRF010 = VL041838.D RRF002 = VL041839.D RRF001 = VL041840.D
RRF0.5 = VL041841.D RRF0.1 = VL041842.D RRF.03 = VL041843.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Vinyl Chloride	0.561	0.607	0.654	0.684	0.801	0.873	0.681	17.1
1,1-Dichloroethene	0.474	0.530	0.537	0.566			0.520	7
cis-1,2-Dichloroethene	1.078	1.129	1.089	1.058			1.103	3.7
1,1,1-Trichloroethane	1.685	1.714	1.731	1.807	1.774	2.132	1.804	8.4
Trichloroethene	0.351	0.361	0.353	0.357	0.452	0.306	0.367	12.2
Tetrachloroethene	0.290	0.301	0.297	0.306	0.291	0.168	0.283	18.6
1-Bromo-4-Fluorobenzene	0.898	0.856	0.846	0.849	0.829	0.816	0.856	3.8

* 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.

Response Factor Report MSVOA_L

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL010725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Jan 08 03:26:12 2025
Response Via : Initial Calibration

Calibration Files
0.03=VL041843.D 0.1 =VL041842.D 0.5 =VL041841.D 1 =VL041840.D 2 =VL041839.D 10 =VL041838.D 15 =VL041844.D

		Compound	0.03	0.1	0.5	1	2	10	15	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------								
2)	T	Dichlorodifluo...			1.836	1.715	1.627	1.476	1.551	1.641	8.57
3)		Chlorodifluoro...			1.742	1.644	1.597	1.396	1.459	1.568	8.91
4)		Chloromethane			0.741	0.697	0.675	0.610	0.651	0.675	7.28
5)	T	Vinyl Chloride	0.873	0.801	0.684	0.654	0.607	0.561	0.583	0.681	17.13
6)	T	Bromomethane			0.322	0.306	0.299	0.262	0.268	0.292	8.75
7)		Chloroethane			0.313	0.267	0.263	0.225	0.242	0.262	12.73
8)	T	Dichlorotetraf...			1.537	1.417	1.462	1.291	1.371	1.416	6.56
9)	T	Propene			0.570	0.556	0.565	0.494	0.544	0.546	5.62
10)	T	Heptane			1.027	1.173	1.355	1.521	1.664	1.348	19.05
11)	T	Trichlorofluor...			1.827	1.752	1.670	1.504	1.589	1.668	7.66
12)	T	1,1,2-Trichlor...			1.364	1.283	1.249	1.133	1.184	1.243	7.18
13)		Ethanol			0.147	0.072	0.069	0.037	0.034	0.072	63.36
14)	T	Bromoethene			0.420	0.411	0.426	0.378	0.398	0.407	4.75
15)	T	Acetone			2.324	2.074	1.998	1.358	1.452	1.841	22.67
16)	T	1,3-Butadiene			0.841	0.738	0.704	0.638	0.689	0.722	10.50
17)		tert-Butyl alc...			1.715	1.688	1.613	1.456	1.505	1.595	7.06
18)	T	1,1-Dichloroet...			0.566	0.537	0.530	0.474	0.493	0.520	7.04
19)	T	Isopropyl Alcohol			1.114	0.941	0.862	0.688	0.716	0.864	20.17
20)	T	Methylene Chlo...			0.677	0.574	0.520	0.418	0.443	0.526	19.81
21)	T	Allyl Chloride			0.947	0.965	0.957	0.908	0.965	0.948	2.50
22)	T	trans-1,2-Dich...			0.619	0.614	0.599	0.529	0.547	0.581	7.06
23)	T	Vinyl Acetate			0.533	0.566	0.613	0.529	0.622	0.573	7.61
24)	T	1,1-Dichloroet...			1.384	1.285	1.304	1.160	1.230	1.273	6.59
25)	T	Ethyl Acetate			2.849	2.985	3.237	3.083	3.284	3.087	5.81
26)	T	Hexane			0.964	0.978	1.081	1.132	1.203	1.072	9.48
27)	T	Carbon Disulfide			0.956	0.898	0.975	1.071	1.185	1.017	11.06
28)	T	Methyl tert-Bu...			0.912	0.842	0.776	0.750	0.757	0.808	8.54
29)	T	Chloroform			2.192	2.076	2.035	1.775	1.876	1.991	8.31
30)	T	Cyclohexane			0.673	0.720	0.807	0.894	0.969	0.813	14.96
31)	T	cis-1,2-Dichlo...			1.058	1.089	1.129	1.078	1.160	1.103	3.74
32)	T	1,1,1-Trichlor...	2.132	1.774	1.807	1.731	1.714	1.685	1.785	1.804	8.36
33)	I	1,4-Difluorobenzene	----------ISTD----------								
34)	T	2-Butanone			0.821	0.768	0.800	0.733	0.816	0.788	4.66
35)	T	Carbon Tetrach...	0.798	0.795	0.755	0.685	0.706	0.737	0.813	0.756	6.49
36)	T	Benzene			0.930	0.925	0.959	0.930	1.034	0.955	4.79
37)	T	1,2-Dichloroet...			0.657	0.616	0.626	0.594	0.648	0.628	3.98
38)	T	Trichloroethene	0.306	0.452	0.357	0.353	0.361	0.351	0.391	0.367	12.17
39)	T	1,2-Dichloropr...			0.387	0.370	0.362	0.346	0.383	0.370	4.44

Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\
Method File : VL010725AIR.M

40)	T	1,4-Dioxane			0.116	0.134	0.143	0.149	0.172	0.143	14.35
41)	T	Tetrahydrofuran			0.337	0.322	0.350	0.394	0.452	0.371	14.15
42)	T	Bromodichlorom...			0.729	0.672	0.715	0.741	0.825	0.737	7.61
43)		Methyl Methacr...			0.241	0.256	0.273	0.334	0.397	0.300	21.50
44)	T	2,2,4-Trimethy...			1.301	1.415	1.636	1.681	1.837	1.574	13.62
45)	T	t-1,3-Dichloro...			0.279	0.237	0.268	0.305	0.375	0.293	17.87
46)	T	cis-1,3-Dichlo...			0.335	0.329	0.358	0.420	0.487	0.386	17.41
47)	T	1,1,2-Trichlor...			0.417	0.389	0.378	0.365	0.403	0.390	5.21
48)	T	Dibromochlorom...			0.434	0.429	0.483	0.536	0.605	0.498	14.92
49)	T	Bromoform			0.345	0.328	0.368	0.438	0.515	0.399	19.34
50)	T	4-Methyl-2-Pen...			0.728	0.786	0.856	1.020	1.164	0.911	19.65
51)	T	2-Hexanone			0.527	0.509	0.635	0.822	0.954	0.689	28.03
52)	T	Tetrachloroethene	0.168	0.291	0.306	0.297	0.301	0.290	0.330	0.283	18.58
53)	T	Toluene			0.655	0.701	0.798	0.976	1.122	0.850	23.00
54)	T	1,2-Dibromoethane		0.460	0.464	0.461	0.474	0.474	0.539	0.479	6.30
55)	I	Chlorobenzene-d5	----------ISTD----------								
56)		1,1,1,2-Tetrac...			0.582	0.564	0.579	0.541	0.584	0.570	3.19
57)	T	Chlorobenzene			1.107	1.066	1.035	0.977	1.039	1.045	4.54
58)	T	Ethyl Benzene			1.003	1.060	1.282	1.643	1.827	1.363	26.48
59)	T	m/p-Xylene			0.798	0.964	1.258	1.424	1.561	1.201	26.39
60)	T	o-Xylene			0.746	0.914	1.231	1.420	1.540	1.170	28.62
61)	T	Styrene			0.316	0.326	0.384	0.567	0.677	0.454	35.37
62)		Isopropylbenzene			1.426	1.499	1.865	2.106	2.297	1.839	20.50
63)	T	1,1,2,2-Tetrac...	1.239	1.009	1.016	0.971	1.010	0.948	0.990	1.026	9.45
64)		n-propylbenzene			0.310	0.411	0.491	0.551	0.595	0.472	24.14
65)		tert-Butylbenzene			1.060	1.427	1.858	1.895	2.043	1.657	24.42
66)	T	Benzyl Chloride			0.141	0.120	0.126	0.143	0.164	0.139	12.44
67)		sec-Butylbenzene			1.631	2.128	2.656	2.731	2.941	2.417	22.00
68)	S	1-Bromo-4-Fluo...	0.816	0.829	0.849	0.846	0.856	0.898	0.901	0.856	3.77
69)		p-Isopropyltol...			1.157	1.555	2.060	2.265	2.451	1.898	28.05
70)		n-Butylbenzene			1.164	1.558	2.094	2.243	2.474	1.907	28.04
71)		2-Chlorotoluene			0.924	1.130	1.330	1.563	1.726	1.335	24.17
72)	T	4-Ethyltoluene			0.918	1.104	1.448	1.712	1.894	1.415	28.76
73)	T	1,3,5-Trimethy...			0.817	1.007	1.278	1.474	1.621	1.239	26.61
74)	T	1,2,4-Trimethy...			0.890	1.264	1.619	1.645	1.761	1.436	24.88
75)	T	1,3-Dichlorobe...			0.877	0.969	0.992	0.949	1.017	0.961	5.54
76)	T	1,4-Dichlorobe...			0.843	0.850	0.964	0.940	1.027	0.925	8.49
77)	T	1,2-Dichlorobe...			0.993	1.023	1.062	0.936	0.993	1.001	4.62
78)	T	Hexachloro-1,3...			0.722	0.763	0.785	0.606	0.678	0.711	10.05
79)	T	Naphthalene		0.632	0.687	0.859	1.297	1.343	1.528	1.058	35.83
80)	T	Naphthalene,2-...			0.275	0.294	0.394	0.399	0.596	0.391	32.58
81)	T	1,2,4-Trichlor...			0.483	0.519	0.656	0.595	0.678	0.586	14.42

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	97717	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	232315	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	198370	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	178169	10.487	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	144187	8.993	ppbv		100
3) Chlorodifluoromethane	1.479	51	136457	8.907	ppbv		100
4) Chloromethane	1.538	50	59602	9.040	ppbv		100
5) Vinyl Chloride	1.586	62	54824	8.244	ppbv		100
6) Bromomethane	1.674	94	25634	8.999	ppbv		100
7) Chloroethane	1.709	64	21958	8.578	ppbv		100
8) Dichlorotetrafluoroethane	1.557	85	126162	9.120	ppbv		100
9) Propene	1.489	41	48251	9.047	ppbv		100
10) Heptane	5.004	43	148658	11.283	ppbv		100
11) Trichlorofluoromethane	1.884	101	146982	9.015	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.149	101	110744	9.121	ppbv		100
13) Ethanol	1.729	45	3612m	5.891	ppbv		
14) Bromoethene	1.787	108	36921	9.288	ppbv		100
15) Acetone	1.842	43	132708	7.377	ppbv		100
16) 1,3-Butadiene	1.612	39	62332	8.836	ppbv		100
17) tert-Butyl alcohol	2.049	59	142263	9.126	ppbv		100
18) 1,1-Dichloroethene	2.043	96	46359	9.119	ppbv		100
19) Isopropyl Alcohol	1.894	45	67181	7.955	ppbv		100
20) Methylene Chloride	2.068	84	40886	7.950	ppbv		100
21) Allyl Chloride	2.104	41	88727	9.574	ppbv		100
22) trans-1,2-Dichloroethene	2.350	96	51671	9.094	ppbv		100
23) Vinyl Acetate	2.473	43	51668	8.955	ppbv		100
24) 1,1-Dichloroethane	2.418	63	113332	9.114	ppbv		100
25) Ethyl Acetate	2.845	43	301260	9.986	ppbv		100
26) Hexane	2.839	57	110574	10.560	ppbv		100
27) Carbon Disulfide	2.159	76	104642	10.530	ppbv		100
28) Methyl tert-Butyl Ether	2.450	73	73317	9.291	ppbv		100
29) Chloroform	2.861	83	173414	8.915	ppbv		100
30) Cyclohexane	3.875	84	87356	10.996	ppbv		100
31) cis-1,2-Dichloroethene	2.732	61	105358	9.776	ppbv		100
32) 1,1,1-Trichloroethane	3.383	97	164630	9.339	ppbv		100
34) 2-Butanone	2.567	43	170386	9.311	ppbv		100
35) Carbon Tetrachloride	3.781	117	171330	9.758	ppbv		100
36) Benzene	3.674	78	216013	9.733	ppbv		100
37) 1,2-Dichloroethane	3.230	62	138068	9.463	ppbv		100
38) Trichloroethene	4.570	130	81606	9.380	ppbv		100
39) 1,2-Dichloropropane	4.334	63	80487	9.375	ppbv		100
40) 1,4-Dioxane	4.606	88	34679	10.425	ppbv	#	100
41) Tetrahydrofuran	3.069	42	91594	10.618	ppbv		100
42) Bromodichloromethane	4.512	83	172183	10.063	ppbv		100
43) Methyl Methacrylate	4.904	69	77566	11.130	ppbv		100
44) 2,2,4-Trimethylpentane	4.661	57	390617	10.683	ppbv		100
45) t-1,3-Dichloropropene	6.438	75	70965	10.430	ppbv		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	97612	10.905	ppbv	100
47) 1,1,2-Trichloroethane	6.606	97	84906	9.351	ppbv	100
48) Dibromochloromethane	7.409	129	124570	10.778	ppbv	100
49) Bromoform	9.500	173	101730	10.982	ppbv	100
50) 4-Methyl-2-Pentanone	5.784	43	237056	11.212	ppbv	100
51) 2-Hexanone	7.457	43	190925	11.921	ppbv	100
52) Tetrachloroethene	8.244	164	67367	10.236	ppbv	100
53) Toluene	6.959	91	226694	11.464	ppbv	100
54) 1,2-Dibromoethane	7.674	107	110192	9.910	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	107276	9.488	ppbv	100
57) Chlorobenzene	8.940	112	193822	9.352	ppbv	100
58) Ethyl Benzene	9.370	91	325850	12.052	ppbv	100
59) m/p-Xylene	9.565	91	564970m	23.662	ppbv	
60) o-Xylene	9.979	91	281728	12.136	ppbv	100
61) Styrene	9.885	104	112526	12.495	ppbv	100
62) Isopropylbenzene	10.552	105	417672	11.452	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	188048	9.238	ppbv	100
64) n-propylbenzene	11.002	120	109323	11.684	ppbv	100
65) tert-Butylbenzene	11.545	119	375903	11.438	ppbv	100
66) Benzyl Chloride	11.630	91	28370	10.329	ppbv	100
67) sec-Butylbenzene	11.782	105	541663	11.295	ppbv	100
69) p-Isopropyltoluene	11.937	119	449331	11.935	ppbv	100
70) n-Butylbenzene	12.293	91	444870	11.762	ppbv	100
71) 2-Chlorotoluene	10.914	91	310040	11.712	ppbv	100
72) 4-Ethyltoluene	11.138	105	339692	12.100	ppbv	100
73) 1,3,5-Trimethylbenzene	11.218	105	292453	11.894	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	326247	11.455	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	188321	9.880	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	186446	10.164	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	185674	9.347	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	120191	8.523	ppbv	100
79) Naphthalene	13.526	128	266390	12.698	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	79067	10.182	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	118002	10.148	ppbv	100

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

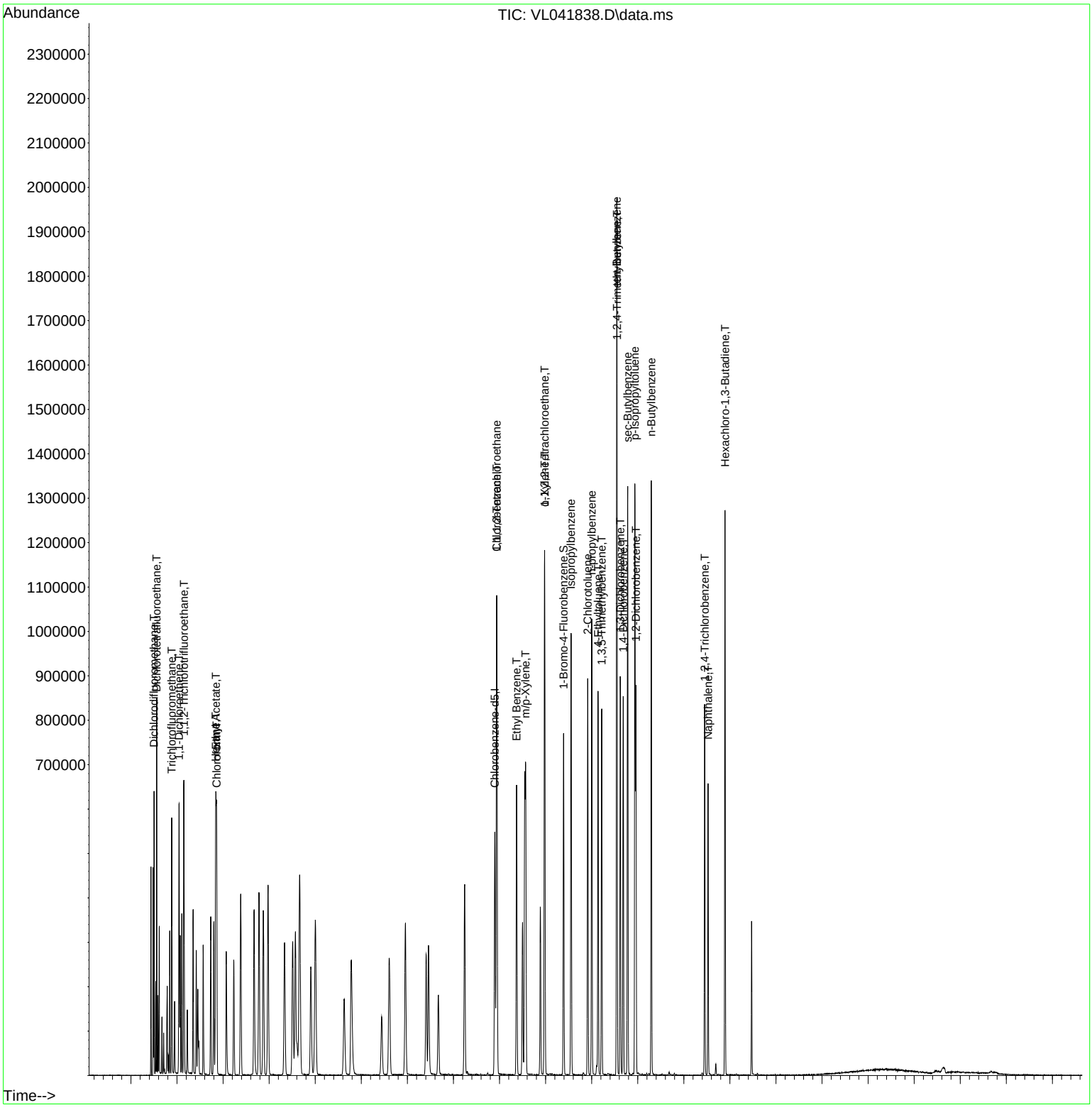
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041839.D
Acq On : 07 Jan 2025 09:51
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	100639	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.978	114	241263	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.901	117	201824	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	172685	9.990	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	32740	1.983	ppbv		100
3) Chlorodifluoromethane	1.479	51	32152	2.038	ppbv		98
4) Chloromethane	1.537	50	13584	2.000	ppbv		98
5) Vinyl Chloride	1.586	62	12222	1.785	ppbv		91
6) Bromomethane	1.673	94	6017	2.051	ppbv		95
7) Chloroethane	1.709	64	5296	2.009	ppbv		92
8) Dichlorotetrafluoroethane	1.560	85	29417	2.065	ppbv		99
9) Propene	1.489	41	11376	2.071	ppbv		98
10) Heptane	5.007	43	27280	2.010	ppbv		95
11) Trichlorofluoromethane	1.884	101	33615	2.002	ppbv		96
12) 1,1,2-Trichlorotrifluo...	2.149	101	25132	2.010	ppbv		99
13) Ethanol	1.728	45	1379	2.184	ppbv		71
14) Bromoethene	1.787	108	8576	2.095	ppbv	#	92
15) Acetone	1.842	43	40213	2.170	ppbv		99
16) 1,3-Butadiene	1.615	39	14169	1.950	ppbv		100
17) tert-Butyl alcohol	2.049	59	32475	2.023	ppbv		98
18) 1,1-Dichloroethene	2.042	96	10673	2.039	ppbv		86
19) Isopropyl Alcohol	1.894	45	17352	1.995	ppbv	#	1
20) Methylene Chloride	2.068	84	10459	1.975	ppbv	#	93
21) Allyl Chloride	2.104	41	19269	2.019	ppbv		96
22) trans-1,2-Dichloroethene	2.350	96	12050	2.059	ppbv		95
23) Vinyl Acetate	2.470	43	12341	2.077	ppbv	#	95
24) 1,1-Dichloroethane	2.418	63	26237	2.049	ppbv		100
25) Ethyl Acetate	2.852	43	65149	2.097	ppbv		100
26) Hexane	2.839	57	21758	2.018	ppbv		89
27) Carbon Disulfide	2.159	76	19626	1.918	ppbv	#	59
28) Methyl tert-Butyl Ether	2.450	73	15614	1.921	ppbv		97
29) Chloroform	2.861	83	40969	2.045	ppbv		98
30) Cyclohexane	3.874	84	16235	1.984	ppbv		97
31) cis-1,2-Dichloroethene	2.732	61	22729	2.048	ppbv		98
32) 1,1,1-Trichloroethane	3.382	97	34505	1.901	ppbv		98
34) 2-Butanone	2.570	43	38624	2.032	ppbv		99
35) Carbon Tetrachloride	3.780	117	34059	1.868	ppbv		97
36) Benzene	3.674	78	46253	2.007	ppbv		98
37) 1,2-Dichloroethane	3.233	62	30190	1.993	ppbv		100
38) Trichloroethene	4.570	130	17434	1.930	ppbv	#	91
39) 1,2-Dichloropropane	4.337	63	17446	1.957	ppbv		96
40) 1,4-Dioxane	4.612	88	6895m	1.996	ppbv		
41) Tetrahydrofuran	3.075	42	16912	1.888	ppbv		100
42) Bromodichloromethane	4.515	83	34494	1.941	ppbv		94
43) Methyl Methacrylate	4.907	69	13160	1.818	ppbv		96
44) 2,2,4-Trimethylpentane	4.661	57	78928	2.078	ppbv		97
45) t-1,3-Dichloropropene	6.441	75	12917m	1.828	ppbv		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041839.D
Acq On : 07 Jan 2025 09:51
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.638	75	17267m	1.858	ppbv		
47) 1,1,2-Trichloroethane	6.609	97	18220	1.932	ppbv		91
48) Dibromochloromethane	7.412	129	23291	1.940	ppbv		96
49) Bromoform	9.500	173	17754	1.846	ppbv		99
50) 4-Methyl-2-Pentanone	5.797	43	41290m	1.881	ppbv		
51) 2-Hexanone	7.464	43	30631	1.842	ppbv	#	96
52) Tetrachloroethene	8.244	164	14518	2.124	ppbv		95
53) Toluene	6.956	91	38482	1.874	ppbv		99
54) 1,2-Dibromoethane	7.671	107	22893	1.983	ppbv		99
56) 1,1,1,2-Tetrachloroethane	8.943	131	23388	2.033	ppbv		98
57) Chlorobenzene	8.940	112	41759	1.980	ppbv		97
58) Ethyl Benzene	9.373	91	51733	1.881	ppbv		98
59) m/p-Xylene	9.568	91	101552m	4.180	ppbv		
60) o-Xylene	9.979	91	49709	2.105	ppbv		98
61) Styrene	9.888	104	15487	1.690	ppbv		99
62) Isopropylbenzene	10.555	105	75283	2.029	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.979	83	40760	1.968	ppbv		99
64) n-propylbenzene	11.005	120	19823	2.082	ppbv		94
65) tert-Butylbenzene	11.545	119	74996	2.243	ppbv		99
66) Benzyl Chloride	11.629	91	5086m	1.820	ppbv		
67) sec-Butylbenzene	11.781	105	107222	2.198	ppbv		98
69) p-Isopropyltoluene	11.940	119	83161	2.171	ppbv		99
70) n-Butylbenzene	12.296	91	84529	2.197	ppbv		99
71) 2-Chlorotoluene	10.917	91	53695	1.994	ppbv		100
72) 4-Ethyltoluene	11.141	105	58453	2.047	ppbv		98
73) 1,3,5-Trimethylbenzene	11.218	105	51583	2.062	ppbv		99
74) 1,2,4-Trimethylbenzene	11.548	105	65350	2.255	ppbv	#	85
75) 1,3-Dichlorobenzene	11.620	146	40038	2.064	ppbv		99
76) 1,4-Dichlorobenzene	11.684	146	38915	2.085	ppbv		97
77) 1,2-Dichlorobenzene	11.963	146	42869	2.121	ppbv		99
78) Hexachloro-1,3-Butadiene	13.895	225	31681	2.208	ppbv		98
79) Naphthalene	13.526	128	52334	2.452	ppbv		99
80) Naphthalene,2-methyl-	14.474	142	15888	2.011	ppbv		99
81) 1,2,4-Trichlorobenzene	13.455	180	26499	2.240	ppbv		99

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

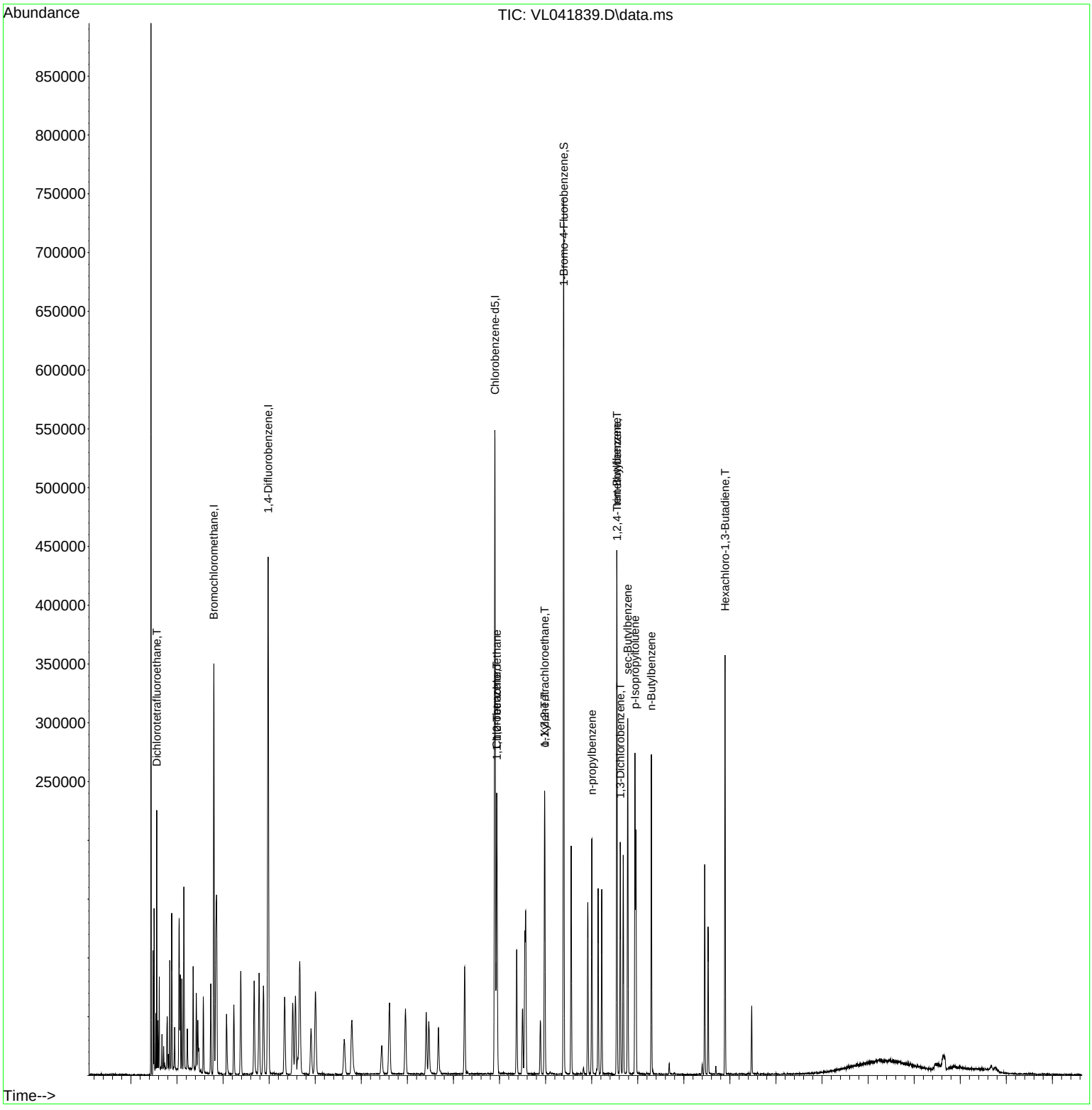
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041839.D
Acq On : 07 Jan 2025 09:51
Operator : SY/MD
Sample : VSTDICC002
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:20:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041840.D
Acq On : 07 Jan 2025 10:21
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:21:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.803	49	96549	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.981	114	232532	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.904	117	194086	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.393	95	164226	9.879	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 98.800%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.505	85	16559	1.045	ppbv		97
3) Chlorodifluoromethane	1.482	51	15873	1.049	ppbv		100
4) Chloromethane	1.538	50	6729	1.033	ppbv		98
5) Vinyl Chloride	1.586	62	6313	0.961	ppbv		97
6) Bromomethane	1.677	94	2955	1.050	ppbv		96
7) Chloroethane	1.712	64	2579	1.020	ppbv		94
8) Dichlorotetrafluoroethane	1.560	85	13682	1.001	ppbv		98
9) Propene	1.489	41	5371	1.019	ppbv		96
10) Heptane	5.010	43	11328	0.870	ppbv		94
11) Trichlorofluoromethane	1.887	101	16911	1.050	ppbv		91
12) 1,1,2-Trichlorotrifluo...	2.149	101	12386	1.032	ppbv		99
13) Ethanol	1.732	45	696m	1.149	ppbv		
14) Bromoethene	1.790	108	3972	1.011	ppbv	#	93
15) Acetone	1.845	43	20021	1.126	ppbv		99
16) 1,3-Butadiene	1.615	39	7124	1.022	ppbv		99
17) tert-Butyl alcohol	2.052	59	16296	1.058	ppbv		98
18) 1,1-Dichloroethene	2.046	96	5187	1.033	ppbv		99
19) Isopropyl Alcohol	1.897	45	9089	1.089	ppbv	#	1
20) Methylene Chloride	2.072	84	5540	1.090	ppbv		94
21) Allyl Chloride	2.107	41	9314	1.017	ppbv		98
22) trans-1,2-Dichloroethene	2.353	96	5931	1.057	ppbv		97
23) Vinyl Acetate	2.476	43	5463	0.958	ppbv	#	96
24) 1,1-Dichloroethane	2.424	63	12403	1.009	ppbv		98
25) Ethyl Acetate	2.855	43	28818	0.967	ppbv		96
26) Hexane	2.842	57	9441	0.913	ppbv		81
27) Carbon Disulfide	2.162	76	8674	0.883	ppbv	#	51
28) Methyl tert-Butyl Ether	2.453	73	8132	1.043	ppbv		94
29) Chloroform	2.865	83	20041	1.043	ppbv		96
30) Cyclohexane	3.881	84	6949	0.885	ppbv		94
31) cis-1,2-Dichloroethene	2.735	61	10514	0.987	ppbv		98
32) 1,1,1-Trichloroethane	3.386	97	16717	0.960	ppbv		100
34) 2-Butanone	2.573	43	17859	0.975	ppbv		99
35) Carbon Tetrachloride	3.787	117	15937	0.907	ppbv		98
36) Benzene	3.677	78	21504	0.968	ppbv		94
37) 1,2-Dichloroethane	3.237	62	14318	0.980	ppbv		97
38) Trichloroethene	4.583	130	8206m	0.942	ppbv		
39) 1,2-Dichloropropane	4.337	63	8600m	1.001	ppbv		
40) 1,4-Dioxane	4.625	88	3125m	0.939	ppbv		
41) Tetrahydrofuran	3.081	42	7497	0.868	ppbv		98
42) Bromodichloromethane	4.522	83	15637	0.913	ppbv	#	90
43) Methyl Methacrylate	4.910	69	5953m	0.853	ppbv		
44) 2,2,4-Trimethylpentane	4.677	57	32898	0.899	ppbv		91
45) t-1,3-Dichloropropene	6.451	75	5502	0.808	ppbv		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041840.D
Acq On : 07 Jan 2025 10:21
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:21:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	7644m	0.853	ppbv		
47) 1,1,2-Trichloroethane	6.616	97	9034m	0.994	ppbv		
48) Dibromochloromethane	7.418	129	9977	0.862	ppbv		98
49) Bromoform	9.500	173	7621	0.822	ppbv		99
50) 4-Methyl-2-Pentanone	5.803	43	18288m	0.864	ppbv		
51) 2-Hexanone	7.477	43	11832	0.738	ppbv	#	100
52) Tetrachloroethene	8.247	164	6903m	1.048	ppbv		
53) Toluene	6.962	91	16301m	0.824	ppbv		
54) 1,2-Dibromoethane	7.681	107	10719	0.963	ppbv		98
56) 1,1,1,2-Tetrachloroethane	8.943	131	10939	0.989	ppbv	#	1
57) Chlorobenzene	8.946	112	20695	1.021	ppbv		95
58) Ethyl Benzene	9.377	91	20575	0.778	ppbv	#	86
59) m/p-Xylene	9.574	91	37403m	1.601	ppbv		
60) o-Xylene	9.985	91	17740	0.781	ppbv		95
61) Styrene	9.888	104	6320	0.717	ppbv		96
62) Isopropylbenzene	10.558	105	29086	0.815	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.982	83	18845	0.946	ppbv		96
64) n-propylbenzene	11.008	120	7978	0.871	ppbv		96
65) tert-Butylbenzene	11.548	119	27703	0.862	ppbv		99
66) Benzyl Chloride	11.633	91	2320	0.863	ppbv		97
67) sec-Butylbenzene	11.785	105	41306	0.880	ppbv		97
69) p-Isopropyltoluene	11.943	119	30189	0.820	ppbv		98
70) n-Butylbenzene	12.299	91	30246	0.817	ppbv		99
71) 2-Chlorotoluene	10.917	91	21930	0.847	ppbv		98
72) 4-Ethyltoluene	11.144	105	21421	0.780	ppbv		97
73) 1,3,5-Trimethylbenzene	11.222	105	19547	0.813	ppbv		98
74) 1,2,4-Trimethylbenzene	11.555	105	24542	0.881	ppbv		97
75) 1,3-Dichlorobenzene	11.626	146	18815	1.009	ppbv		98
76) 1,4-Dichlorobenzene	11.691	146	16488	0.919	ppbv		95
77) 1,2-Dichlorobenzene	11.963	146	19852	1.021	ppbv		99
78) Hexachloro-1,3-Butadiene	13.898	225	14814	1.074	ppbv		99
79) Naphthalene	13.529	128	16677	0.812	ppbv	#	96
80) Naphthalene,2-methyl-	14.474	142	5705	0.751	ppbv		97
81) 1,2,4-Trichlorobenzene	13.455	180	10080	0.886	ppbv		99

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

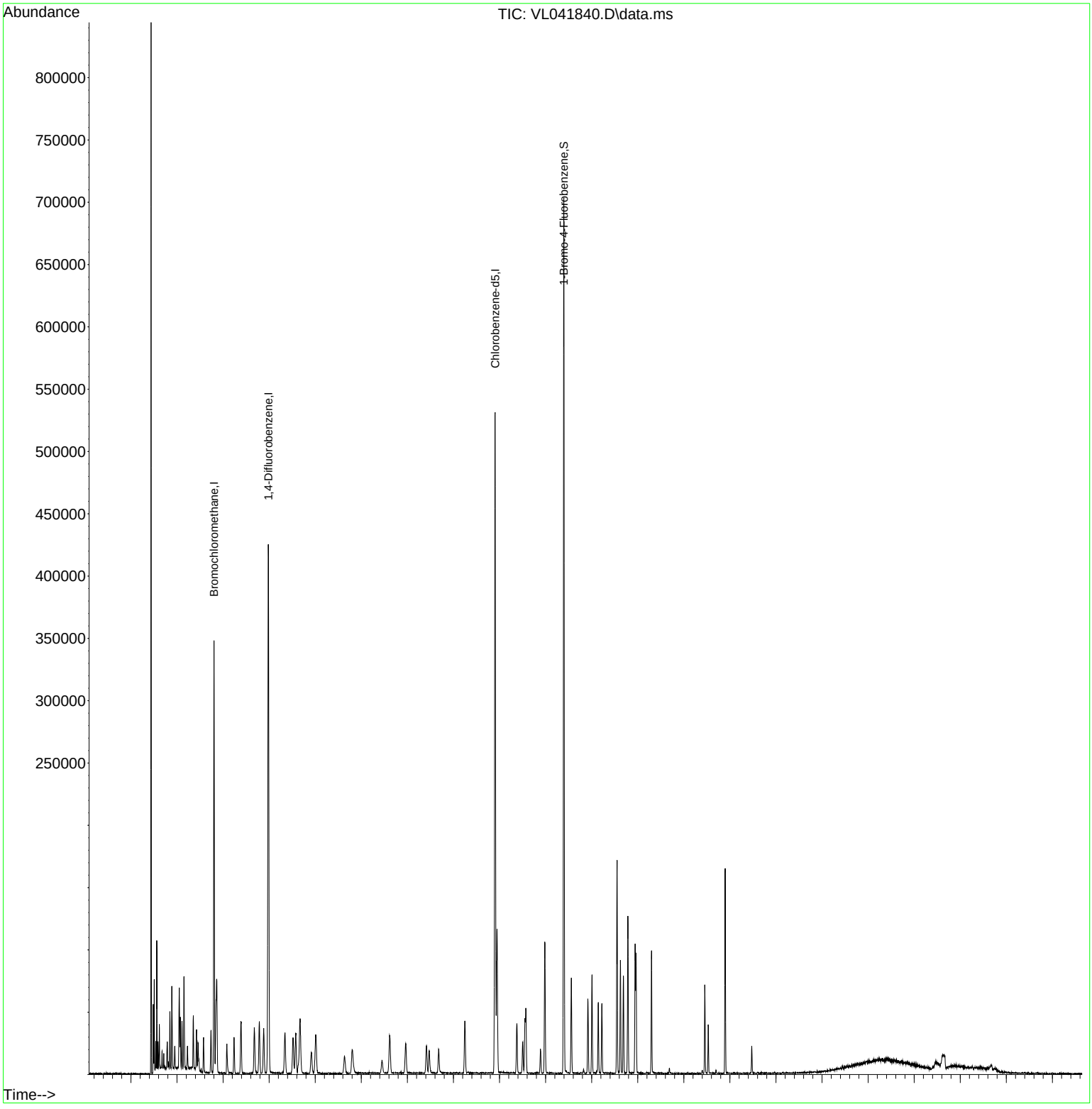
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041840.D
Acq On : 07 Jan 2025 10:21
Operator : SY/MD
Sample : VSTDICC001
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:21:19 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC001

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041841.D
Acq On : 07 Jan 2025 10:52
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:21:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	90228	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	210692	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	175693	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	149231	9.917	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 99.200%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	8282	0.559	ppbv		99
3) Chlorodifluoromethane	1.479	51	7858	0.555	ppbv		97
4) Chloromethane	1.538	50	3343	0.549	ppbv		92
5) Vinyl Chloride	1.583	62	3086	0.503	ppbv		90
6) Bromomethane	1.673	94	1453	0.552	ppbv		96
7) Chloroethane	1.709	64	1413	0.598	ppbv		93
8) Dichlorotetrafluoroethane	1.560	85	6936	0.543	ppbv		99
9) Propene	1.489	41	2570	0.522	ppbv		87
10) Heptane	5.004	43	4633m	0.381	ppbv		
11) Trichlorofluoromethane	1.884	101	8242	0.547	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.146	101	6155	0.549	ppbv		96
13) Ethanol	1.725	45	662	1.169	ppbv		95
14) Bromoethene	1.787	108	1897	0.517	ppbv	#	84
15) Acetone	1.842	43	10484	0.631	ppbv		97
16) 1,3-Butadiene	1.615	39	3795	0.583	ppbv		86
17) tert-Butyl alcohol	2.052	59	7735	0.537	ppbv		98
18) 1,1-Dichloroethene	2.042	96	2555	0.544	ppbv		92
19) Isopropyl Alcohol	1.894	45	5026	0.645	ppbv	#	95
20) Methylene Chloride	2.068	84	3053	0.643	ppbv		92
21) Allyl Chloride	2.104	41	4272	0.499	ppbv		86
22) trans-1,2-Dichloroethene	2.350	96	2791	0.532	ppbv	#	79
23) Vinyl Acetate	2.470	43	2406m	0.452	ppbv		
24) 1,1-Dichloroethane	2.418	63	6246	0.544	ppbv		96
25) Ethyl Acetate	2.852	43	12851	0.461	ppbv		97
26) Hexane	2.835	57	4350	0.450	ppbv		86
27) Carbon Disulfide	2.159	76	4312	0.470	ppbv	#	1
28) Methyl tert-Butyl Ether	2.450	73	4116	0.565	ppbv		91
29) Chloroform	2.858	83	9887	0.550	ppbv		92
30) Cyclohexane	3.871	84	3038m	0.414	ppbv		
31) cis-1,2-Dichloroethene	2.729	61	4773	0.480	ppbv		94
32) 1,1,1-Trichloroethane	3.382	97	8151	0.501	ppbv		97
34) 2-Butanone	2.570	43	8647	0.521	ppbv		97
35) Carbon Tetrachloride	3.784	117	7956	0.500	ppbv		88
36) Benzene	3.674	78	9795	0.487	ppbv		95
37) 1,2-Dichloroethane	3.230	62	6918	0.523	ppbv	#	95
38) Trichloroethene	4.570	130	3763	0.477	ppbv	#	85
39) 1,2-Dichloropropane	4.331	63	4076	0.524	ppbv		97
40) 1,4-Dioxane	4.629	88	1225m	0.406	ppbv		
41) Tetrahydrofuran	3.075	42	3545m	0.453	ppbv		
42) Bromodichloromethane	4.512	83	7678m	0.495	ppbv		
43) Methyl Methacrylate	4.900	69	2537m	0.401	ppbv		
44) 2,2,4-Trimethylpentane	4.661	57	13710	0.413	ppbv	#	89
45) t-1,3-Dichloropropene	6.438	75	2941m	0.477	ppbv		

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041841.D
Acq On : 07 Jan 2025 10:52
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:21:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.629	75	3526m	0.434	ppbv		
47) 1,1,2-Trichloroethane	6.606	97	4392m	0.533	ppbv		
48) Dibromochloromethane	7.409	129	4575m	0.436	ppbv		
49) Bromoform	9.496	173	3639	0.433	ppbv		99
50) 4-Methyl-2-Pentanone	5.797	43	7670m	0.400	ppbv		
51) 2-Hexanone	7.467	43	5557m	0.383	ppbv		
52) Tetrachloroethene	8.244	164	3227m	0.541	ppbv		
53) Toluene	6.962	91	6897m	0.385	ppbv		
54) 1,2-Dibromoethane	7.681	107	4885m	0.484	ppbv		
56) 1,1,1,2-Tetrachloroethane	8.940	131	5115	0.511	ppbv	#	1
57) Chlorobenzene	8.940	112	9721m	0.530	ppbv		
58) Ethyl Benzene	9.373	91	8814	0.368	ppbv		93
59) m/p-Xylene	9.568	91	14012m	0.663	ppbv		
60) o-Xylene	9.979	91	6551	0.319	ppbv		100
61) Styrene	9.885	104	2777	0.348	ppbv		98
62) Isopropylbenzene	10.552	105	12528	0.388	ppbv		99
63) 1,1,2,2-Tetrachloroethane	9.979	83	8924	0.495	ppbv		97
64) n-propylbenzene	10.998	120	2721m	0.328	ppbv		
65) tert-Butylbenzene	11.542	119	9315	0.320	ppbv		100
66) Benzyl Chloride	11.633	91	1242	0.511	ppbv	#	91
67) sec-Butylbenzene	11.782	105	14329	0.337	ppbv		100
69) p-Isopropyltoluene	11.940	119	10167	0.305	ppbv		94
70) n-Butylbenzene	12.293	91	10226	0.305	ppbv		98
71) 2-Chlorotoluene	10.914	91	8114	0.346	ppbv		98
72) 4-Ethyltoluene	11.137	105	8065	0.324	ppbv	#	97
73) 1,3,5-Trimethylbenzene	11.215	105	7174	0.329	ppbv		89
74) 1,2,4-Trimethylbenzene	11.548	105	7816	0.310	ppbv	#	87
75) 1,3-Dichlorobenzene	11.620	146	7704	0.456	ppbv		98
76) 1,4-Dichlorobenzene	11.684	146	7404	0.456	ppbv		99
77) 1,2-Dichlorobenzene	11.960	146	8725	0.496	ppbv		98
78) Hexachloro-1,3-Butadiene	13.895	225	6344	0.508	ppbv		95
79) Naphthalene	13.529	128	6035	0.325	ppbv	#	93
80) Naphthalene,2-methyl-	14.471	142	2415	0.351	ppbv		98
81) 1,2,4-Trichlorobenzene	13.455	180	4239	0.412	ppbv		99

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

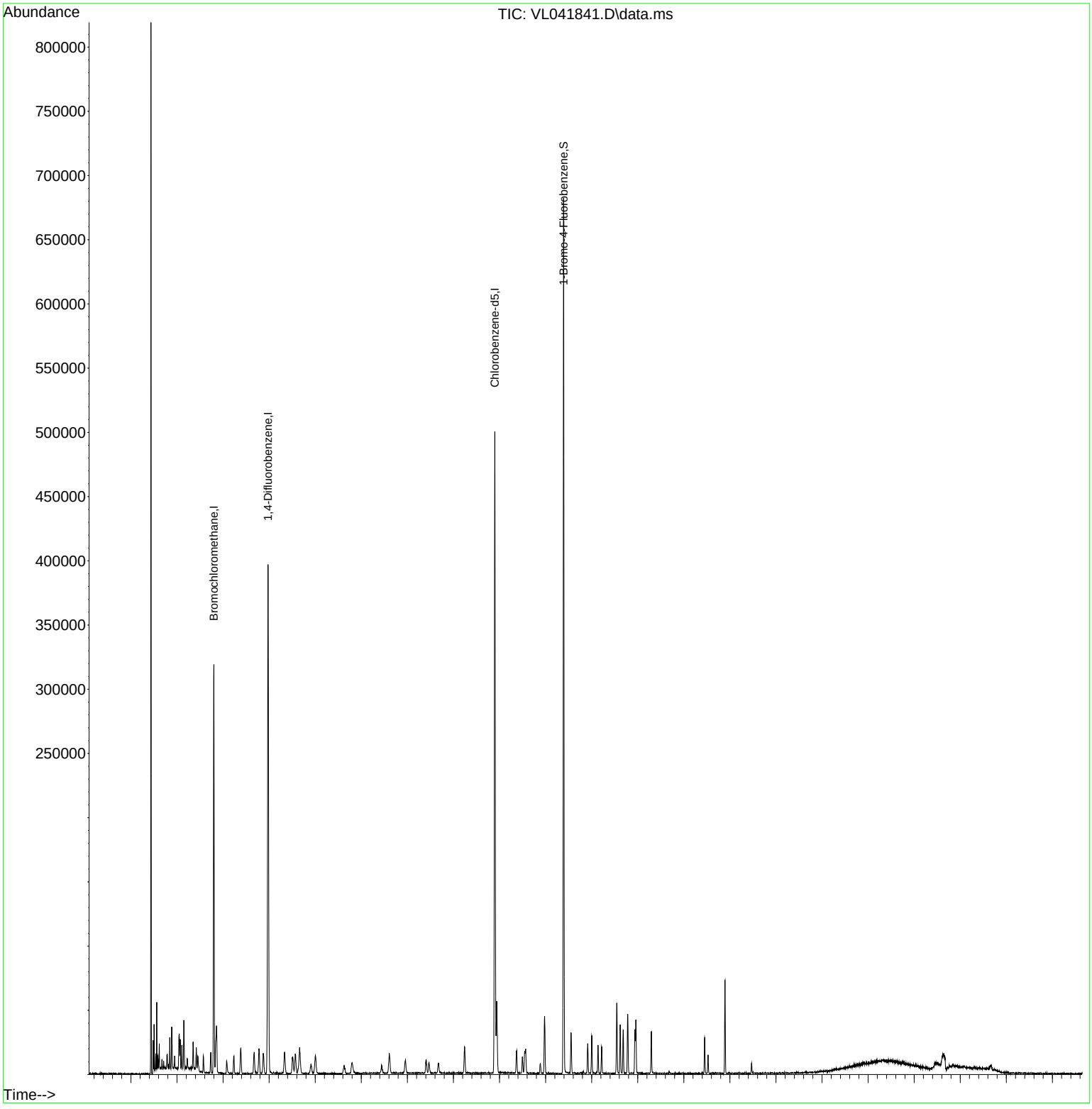
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041841.D
Acq On : 07 Jan 2025 10:52
Operator : SY/MD
Sample : VSTDICC0.5
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:21:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.5

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041842.D
Acq On : 07 Jan 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	88722	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	202136	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	168288	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	139535	9.681	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 96.800%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	711	0.118	ppbv	# 84
32) 1,1,1-Trichloroethane	3.382	97	1574	0.098	ppbv	# 21
35) Carbon Tetrachloride	3.784	117	1607	0.105	ppbv	# 71
38) Trichloroethene	4.570	130	913m	0.121	ppbv	
52) Tetrachloroethene	8.244	164	588m	0.103	ppbv	
54) 1,2-Dibromoethane	7.681	107	929m	0.096	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.985	83	1698	0.098	ppbv	# 94
79) Naphthalene	13.529	128	1063	0.060	ppbv	# 86

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

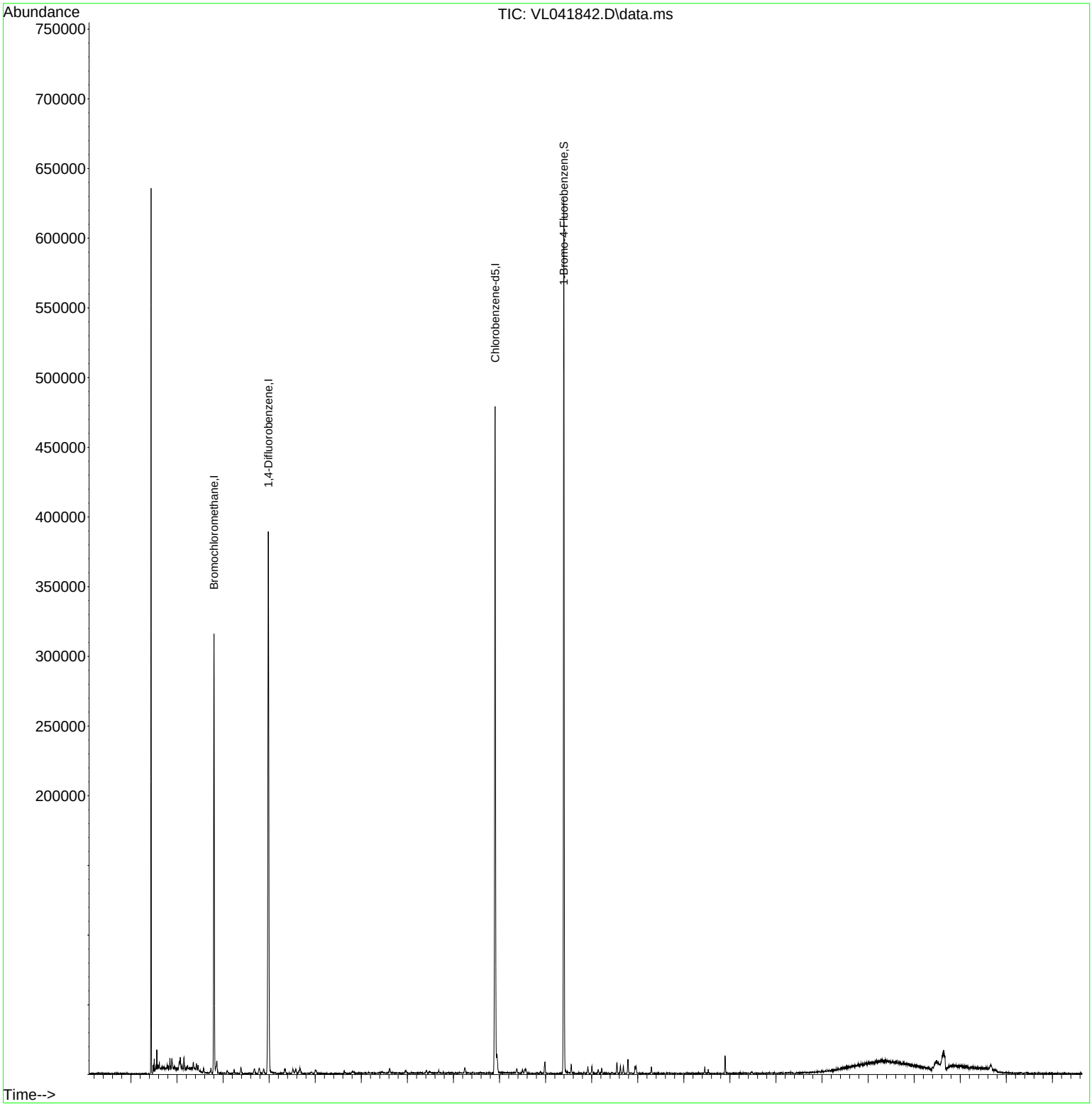
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041842.D
Acq On : 07 Jan 2025 11:22
Operator : SY/MD
Sample : VSTDICC0.1
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:22:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041843.D
Acq On : 07 Jan 2025 11:52
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	85525	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.984	114	192559	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	161678	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	131934	9.528	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 95.300%			
Target Compounds						Qvalue
5) Vinyl Chloride	1.586	62	224	0.038	ppbv	# 32
32) 1,1,1-Trichloroethane	3.389	97	547	0.035	ppbv	# 83
35) Carbon Tetrachloride	3.790	117	461m	0.032	ppbv	
63) 1,1,2,2-Tetrachloroethane	9.982	83	601m	0.036	ppbv	

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

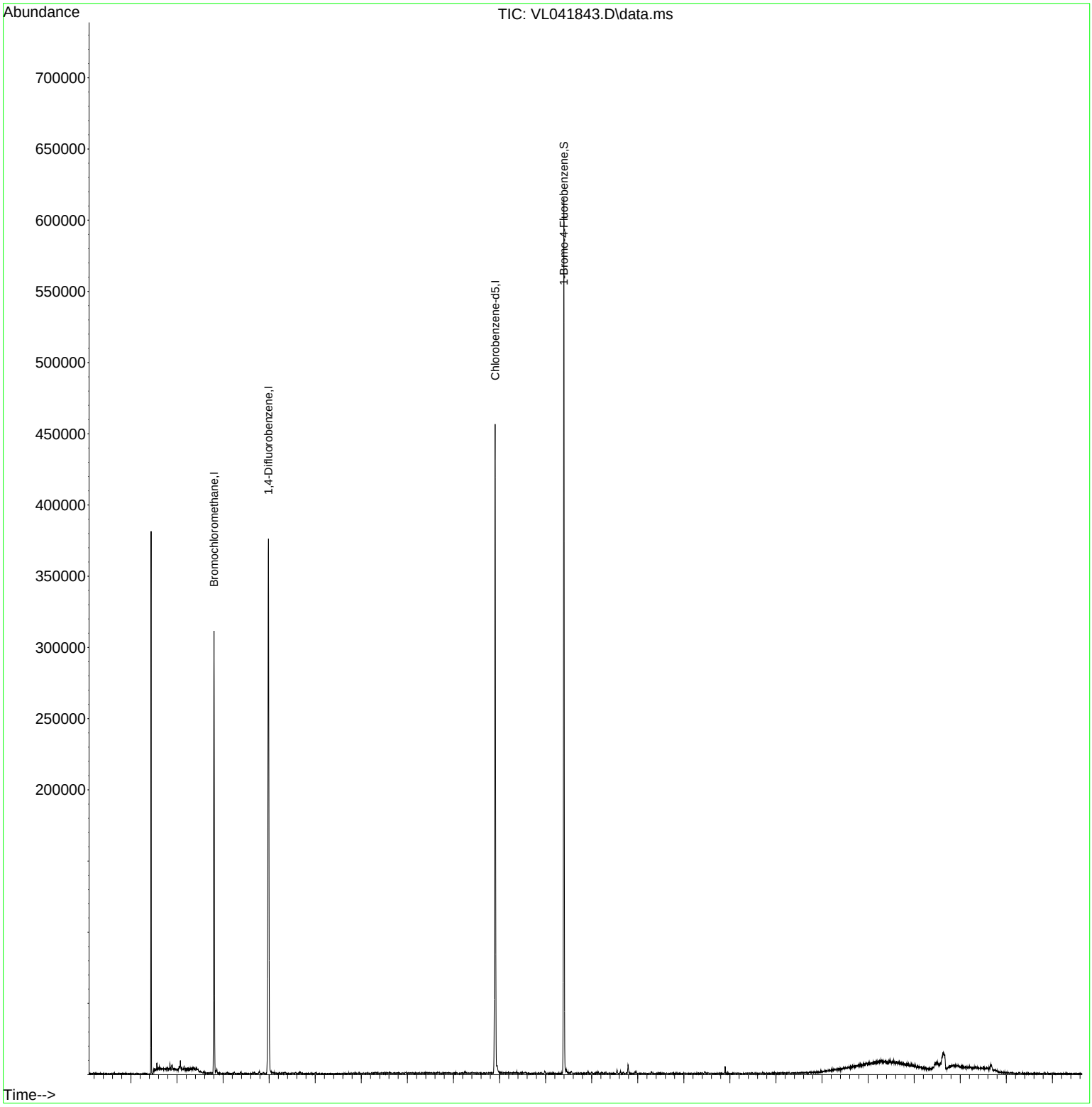
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041843.D
Acq On : 07 Jan 2025 11:52
Operator : SY/MD
Sample : VSTDICC0.03
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:23:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.03

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041844.D
Acq On : 07 Jan 2025 12:25
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	93311	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	214048	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	188085	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	169446	10.519	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 105.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	217118	14.181	ppbv	97
3) Chlorodifluoromethane	1.483	51	204247	13.962	ppbv	100
4) Chloromethane	1.538	50	91107	14.470	ppbv	98
5) Vinyl Chloride	1.586	62	81611	12.852	ppbv	98
6) Bromomethane	1.674	94	37525	13.796	ppbv	94
7) Chloroethane	1.712	64	33831	13.840	ppbv	99
8) Dichlorotetrafluoroethane	1.560	85	191885	14.527	ppbv	99
9) Propene	1.489	41	76147	14.952	ppbv	100
10) Heptane	5.007	43	232968	18.518	ppbv	99
11) Trichlorofluoromethane	1.887	101	222468	14.290	ppbv	94
12) 1,1,2-Trichlorotrifluo...	2.149	101	165689	14.290	ppbv	100
13) Ethanol	1.729	45	4786	8.174	ppbv	95
14) Bromoethene	1.790	108	55728	14.681	ppbv	99
15) Acetone	1.842	43	203219	11.829	ppbv	97
16) 1,3-Butadiene	1.615	39	96407	14.311	ppbv	99
17) tert-Butyl alcohol	2.049	59	210612	14.149	ppbv	100
18) 1,1-Dichloroethene	2.046	96	68995	14.213	ppbv	95
19) Isopropyl Alcohol	1.894	45	100236	12.430	ppbv	100
20) Methylene Chloride	2.072	84	62016	12.627	ppbv	96
21) Allyl Chloride	2.107	41	135077	15.264	ppbv	98
22) trans-1,2-Dichloroethene	2.353	96	76536	14.107	ppbv	92
23) Vinyl Acetate	2.476	43	87069	15.804	ppbv	99
24) 1,1-Dichloroethane	2.421	63	172210	14.503	ppbv	100
25) Ethyl Acetate	2.848	43	459657	15.955	ppbv	99
26) Hexane	2.842	57	168383	16.841	ppbv	100
27) Carbon Disulfide	2.162	76	165817	17.474	ppbv	98
28) Methyl tert-Butyl Ether	2.454	73	105985	14.065	ppbv	99
29) Chloroform	2.865	83	262539	14.134	ppbv	98
30) Cyclohexane	3.881	84	135635	17.879	ppbv	99
31) cis-1,2-Dichloroethene	2.735	61	162395	15.779	ppbv	98
32) 1,1,1-Trichloroethane	3.386	97	249799	14.840	ppbv	100
34) 2-Butanone	2.570	43	261912	15.534	ppbv	98
35) Carbon Tetrachloride	3.784	117	261173	16.145	ppbv	97
36) Benzene	3.677	78	331869	16.230	ppbv	99
37) 1,2-Dichloroethane	3.237	62	207949	15.469	ppbv	100
38) Trichloroethene	4.577	130	125492	15.656	ppbv	96
39) 1,2-Dichloropropane	4.337	63	122940	15.543	ppbv	98
40) 1,4-Dioxane	4.609	88	55317	18.048	ppbv #	95
41) Tetrahydrofuran	3.068	42	145035	18.249	ppbv	100
42) Bromodichloromethane	4.519	83	265034	16.811	ppbv	98
43) Methyl Methacrylate	4.913	69	127306	19.826	ppbv	98
44) 2,2,4-Trimethylpentane	4.667	57	589679	17.503	ppbv	99
45) t-1,3-Dichloropropene	6.451	75	120537	19.228	ppbv	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041844.D
Acq On : 07 Jan 2025 12:25
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	156300	18.952	ppbv	98
47) 1,1,2-Trichloroethane	6.613	97	129484	15.477	ppbv	97
48) Dibromochloromethane	7.415	129	194367	18.252	ppbv	100
49) Bromoform	9.503	173	165226	19.360	ppbv	99
50) 4-Methyl-2-Pentanone	5.790	43	373823	19.190	ppbv	100
51) 2-Hexanone	7.464	43	306279	20.756	ppbv	98
52) Tetrachloroethene	8.250	164	105951	17.472	ppbv	97
53) Toluene	6.962	91	360317	19.776	ppbv	99
54) 1,2-Dibromoethane	7.677	107	172958	16.883	ppbv	99
56) 1,1,1,2-Tetrachloroethane	8.946	131	164661	15.360	ppbv	99
57) Chlorobenzene	8.943	112	293187	14.921	ppbv	95
58) Ethyl Benzene	9.377	91	515403	20.106	ppbv	99
59) m/p-Xylene	9.571	91	880667m	38.901	ppbv	
60) o-Xylene	9.985	91	434378	19.735	ppbv	100
61) Styrene	9.891	104	191091	22.378	ppbv	100
62) Isopropylbenzene	10.558	105	648118	18.743	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.982	83	279419	14.477	ppbv	99
64) n-propylbenzene	11.005	120	167958	18.932	ppbv	100
65) tert-Butylbenzene	11.548	119	576406	18.498	ppbv	100
66) Benzyl Chloride	11.633	91	46260	17.763	ppbv	99
67) sec-Butylbenzene	11.785	105	829725	18.248	ppbv	100
69) p-Isopropyltoluene	11.943	119	691614	19.375	ppbv	99
70) n-Butylbenzene	12.296	91	698101	19.466	ppbv	99
71) 2-Chlorotoluene	10.917	91	486908	19.398	ppbv	99
72) 4-Ethyltoluene	11.141	105	534215	20.070	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	457438	19.622	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	496746	18.396	ppbv	95
75) 1,3-Dichlorobenzene	11.626	146	286905	15.874	ppbv	99
76) 1,4-Dichlorobenzene	11.688	146	289777	16.662	ppbv	99
77) 1,2-Dichlorobenzene	11.963	146	280054	14.870	ppbv	100
78) Hexachloro-1,3-Butadiene	13.898	225	191358	14.312	ppbv	99
79) Naphthalene	13.529	128	431155	21.675	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	168205	22.846	ppbv	98
81) 1,2,4-Trichlorobenzene	13.455	180	191178	17.340	ppbv	100

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

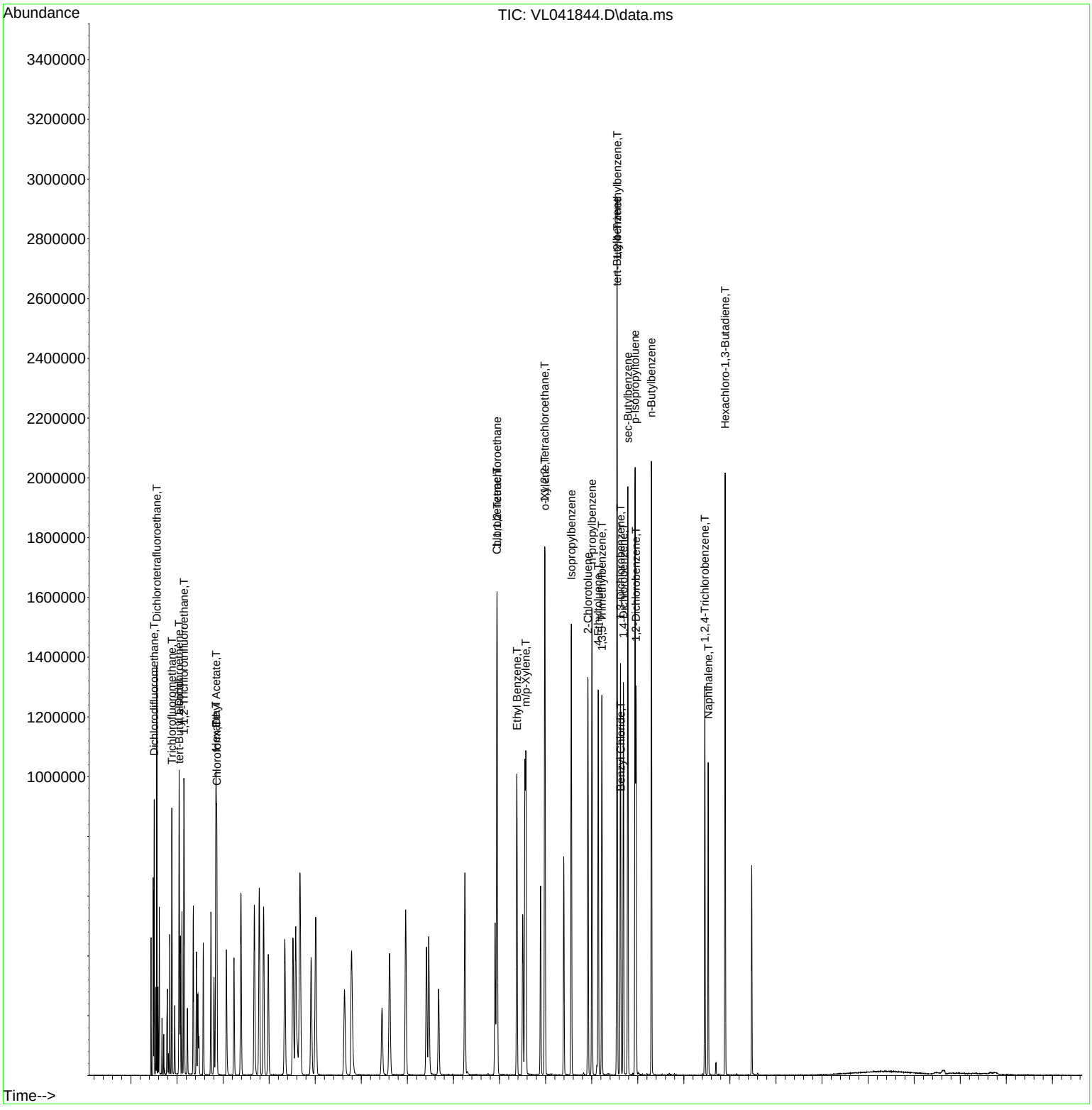
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041844.D
Acq On : 07 Jan 2025 12:25
Operator : SY/MD
Sample : VSTDICC015
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:23:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.803	49	92601	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	213759	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.904	117	184732	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.396	95	162329	10.260	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.505	85	143451	9.441	ppbv	100
3) Chlorodifluoromethane	1.483	51	139125	9.583	ppbv	99
4) Chloromethane	1.538	50	60267	9.646	ppbv	95
5) Vinyl Chloride	1.586	62	56034	8.892	ppbv	99
6) Bromomethane	1.674	94	24662	9.136	ppbv	97
7) Chloroethane	1.712	64	22332	9.206	ppbv	100
8) Dichlorotetrafluoroethane	1.560	85	125137	9.546	ppbv	100
9) Propene	1.489	41	50222	9.937	ppbv	100
10) Heptane	5.014	43	147223	11.792	ppbv	99
11) Trichlorofluoromethane	1.887	101	145924	9.445	ppbv	96
12) 1,1,2-Trichlorotrifluo...	2.149	101	110289	9.585	ppbv	99
13) Ethanol	1.729	45	3821m	5.755	ppbv	
14) Bromoethene	1.790	108	36353	9.651	ppbv	97
15) Acetone	1.845	43	135381	7.941	ppbv	98
16) 1,3-Butadiene	1.615	39	63555	9.507	ppbv	100
17) tert-Butyl alcohol	2.052	59	145313	9.837	ppbv	99
18) 1,1-Dichloroethene	2.046	96	46435	9.639	ppbv	100
19) Isopropyl Alcohol	1.894	45	69422	8.675	ppbv	100
20) Methylene Chloride	2.072	84	41389	8.492	ppbv	97
21) Allyl Chloride	2.107	41	88763	10.107	ppbv	99
22) trans-1,2-Dichloroethene	2.353	96	51425	9.551	ppbv	94
23) Vinyl Acetate	2.476	43	49964	9.423	ppbv	97
24) 1,1-Dichloroethane	2.421	63	112770	9.570	ppbv	98
25) Ethyl Acetate	2.852	43	306986	10.738	ppbv	99
26) Hexane	2.842	57	111357	11.223	ppbv	99
27) Carbon Disulfide	2.162	76	105565	11.210	ppbv	96
28) Methyl tert-Butyl Ether	2.454	73	77901	10.417	ppbv	100
29) Chloroform	2.865	83	175788	9.536	ppbv	98
30) Cyclohexane	3.881	84	88761	11.797	ppbv	99
31) cis-1,2-Dichloroethene	2.735	61	106195	10.398	ppbv	96
32) 1,1,1-Trichloroethane	3.386	97	164951	9.874	ppbv	99
34) 2-Butanone	2.570	43	174729	10.377	ppbv	99
35) Carbon Tetrachloride	3.784	117	168248	10.414	ppbv	96
36) Benzene	3.680	78	219166	10.733	ppbv	99
37) 1,2-Dichloroethane	3.237	62	135149	10.067	ppbv	100
38) Trichloroethene	4.580	130	82268	10.476	ppbv	99
39) 1,2-Dichloropropane	4.341	63	80184	10.151	ppbv	98
40) 1,4-Dioxane	4.616	88	35756	11.695	ppbv #	95
41) Tetrahydrofuran	3.072	42	94659	11.934	ppbv	99
42) Bromodichloromethane	4.515	83	171595	10.899	ppbv	96
43) Methyl Methacrylate	4.910	69	78647	12.265	ppbv	99
44) 2,2,4-Trimethylpentane	4.667	57	393434	11.694	ppbv	99
45) t-1,3-Dichloropropene	6.451	75	68913	11.008	ppbv	94

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.635	75	95759	11.616	ppbv	99
47) 1,1,2-Trichloroethane	6.616	97	83220	9.973	ppbv	93
48) Dibromochloromethane	7.415	129	122520	11.520	ppbv	99
49) Bromoform	9.506	173	101879	11.953	ppbv	99
50) 4-Methyl-2-Pentanone	5.794	43	243893m	12.525	ppbv	
51) 2-Hexanone	7.467	43	193644	13.141	ppbv	99
52) Tetrachloroethene	8.250	164	67208	11.100	ppbv	95
53) Toluene	6.965	91	225037	12.382	ppbv	100
54) 1,2-Dibromoethane	7.678	107	110135	10.765	ppbv	97
56) 1,1,1,2-Tetrachloroethane	8.946	131	109273	10.379	ppbv	99
57) Chlorobenzene	8.943	112	189988	9.844	ppbv	98
58) Ethyl Benzene	9.373	91	326397	12.964	ppbv	97
59) m/p-Xylene	9.574	91	562576m	25.362	ppbv	
60) o-Xylene	9.985	91	278979	12.905	ppbv	99
61) Styrene	9.891	104	112676	13.435	ppbv	99
62) Isopropylbenzene	10.558	105	414931	12.217	ppbv	99
63) 1,1,2,2-Tetrachloroethane	9.985	83	185879	9.806	ppbv	100
64) n-propylbenzene	11.008	120	107961	12.391	ppbv	99
65) tert-Butylbenzene	11.549	119	379928	12.414	ppbv	98
66) Benzyl Chloride	11.633	91	26131	10.193	ppbv	99
67) sec-Butylbenzene	11.785	105	536668	12.017	ppbv	100
69) p-Isopropyltoluene	11.943	119	435146	12.411	ppbv	99
70) n-Butylbenzene	12.299	91	430545	12.223	ppbv	100
71) 2-Chlorotoluene	10.921	91	304622	12.356	ppbv	100
72) 4-Ethyltoluene	11.144	105	330541	12.644	ppbv	99
73) 1,3,5-Trimethylbenzene	11.222	105	287547	12.558	ppbv	98
74) 1,2,4-Trimethylbenzene	11.555	105	320339	12.078	ppbv	90
75) 1,3-Dichlorobenzene	11.626	146	178940	10.080	ppbv	100
76) 1,4-Dichlorobenzene	11.691	146	178959	10.476	ppbv	100
77) 1,2-Dichlorobenzene	11.966	146	178111	9.629	ppbv	100
78) Hexachloro-1,3-Butadiene	13.898	225	113955	8.677	ppbv	99
79) Naphthalene	13.529	128	241962	12.385	ppbv	99
80) Naphthalene,2-methyl-	14.474	142	69167	9.565	ppbv	97
81) 1,2,4-Trichlorobenzene	13.458	180	111710	10.316	ppbv	99

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

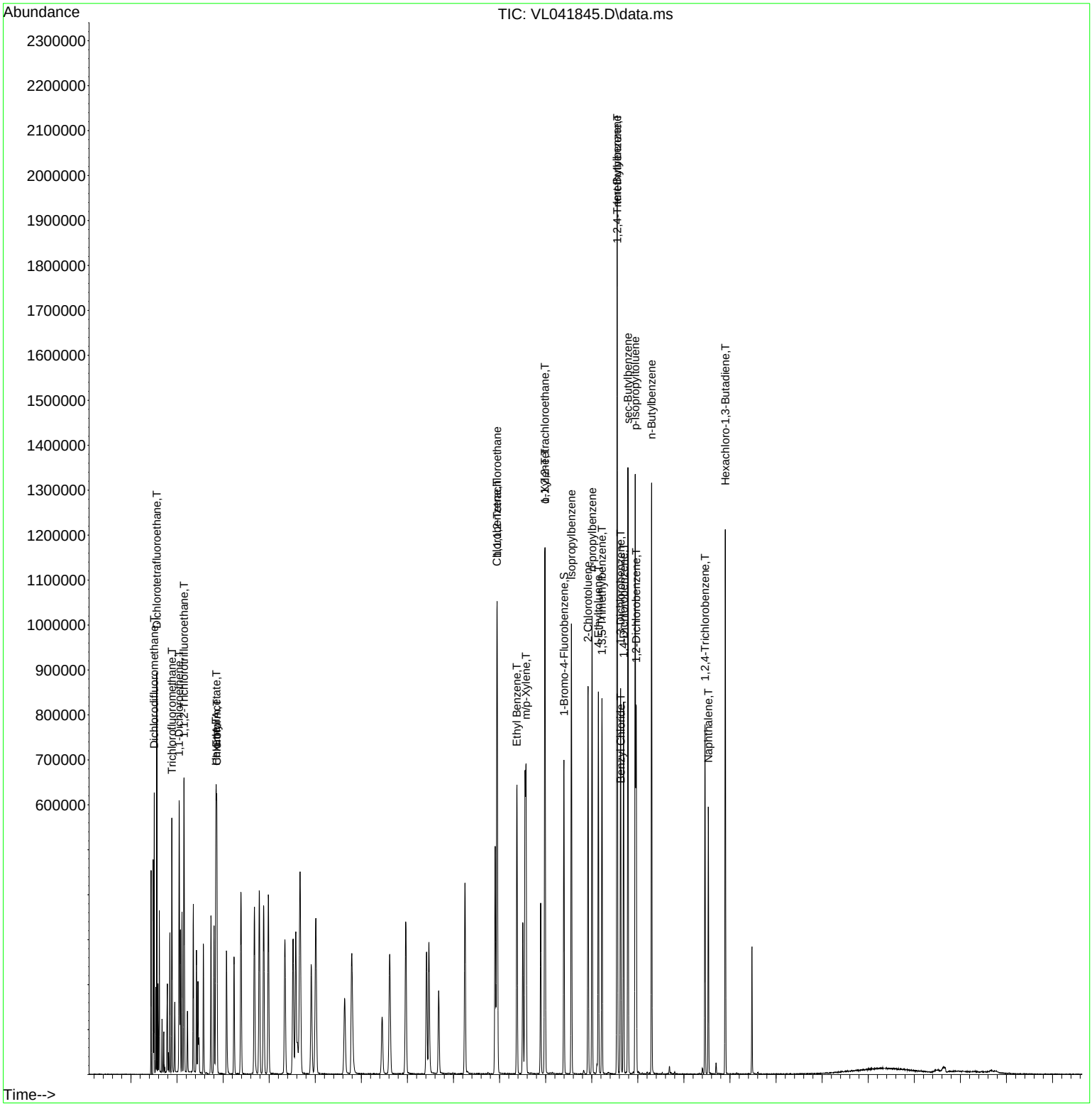
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 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	95	0.00
2	T	Dichlorodifluoromethane	1.641	1.549	5.6	99	0.00
3		Chlorodifluoromethane	1.568	1.502	4.2	102	0.00
4		Chloromethane	0.675	0.651	3.6	101	0.00
5	T	Vinyl Chloride	0.681	0.605	11.2	102	0.00
6	T	Bromomethane	0.292	0.266	8.9	96	0.00
7		Chloroethane	0.262	0.241	8.0	102	0.00
8	T	Dichlorotetrafluoroethane	1.416	1.351	4.6	99	0.00
9	T	Propene	0.546	0.542	0.7	104	0.00
10	T	Heptane	1.348	1.590	-18.0	99	0.00
11	T	Trichlorofluoromethane	1.668	1.576	5.5	99	0.00
12	T	1,1,2-Trichlorotrifluoroeth	1.243	1.191	4.2	100	0.00
13		Ethanol	0.072	0.041#	43.1#	106	0.00
14	T	Bromoethene	0.407	0.393	3.4	98	0.00
15	T	Acetone	1.841	1.462	20.6	102	0.00
16	T	1,3-Butadiene	0.722	0.686	5.0	102	0.00
17		tert-Butyl alcohol	1.595	1.569	1.6	102	0.00
18	T	1,1-Dichloroethene	0.520	0.501	3.7	100	0.00
19	T	Isopropyl Alcohol	0.864	0.750	13.2	103	0.00
20	T	Methylene Chloride	0.526	0.447	15.0	101	0.00
21	T	Allyl Chloride	0.948	0.959	-1.2	100	0.00
22	T	trans-1,2-Dichloroethene	0.581	0.555	4.5	100	0.00
23	T	Vinyl Acetate	0.573	0.540	5.8	97	0.00
24	T	1,1-Dichloroethane	1.273	1.218	4.3	100	0.00
25	T	Ethyl Acetate	3.087	3.315	-7.4	102	0.00
26	T	Hexane	1.072	1.203	-12.2	101	0.00
27	T	Carbon Disulfide	1.017	1.140	-12.1	101	0.00
28	T	Methyl tert-Butyl Ether	0.808	0.841	-4.1	106	0.00
29	T	Chloroform	1.991	1.898	4.7	101	0.00
30	T	Cyclohexane	0.813	0.959	-18.0	102	0.00
31	T	cis-1,2-Dichloroethene	1.103	1.147	-4.0	101	0.00
32	T	1,1,1-Trichloroethane	1.804	1.781	1.3	100	0.00
33	I	1,4-Difluorobenzene	1.000	1.000	0.0	92	0.00
34	T	2-Butanone	0.788	0.817	-3.7	103	0.00
35	T	Carbon Tetrachloride	0.756	0.787	-4.1	98	0.00
36	T	Benzene	0.955	1.025	-7.3	101	0.00
37	T	1,2-Dichloroethane	0.628	0.632	-0.6	98	0.00
38	T	Trichloroethene	0.367	0.385	-4.9	101	0.00
39	T	1,2-Dichloropropane	0.370	0.375	-1.4	100	0.00
40	T	1,4-Dioxane	0.143	0.167	-16.8	103	0.00
41	T	Tetrahydrofuran	0.371	0.443	-19.4	103	0.00
42	T	Bromodichloromethane	0.737	0.803	-9.0	100	0.00
43		Methyl Methacrylate	0.300	0.368	-22.7	101	0.00
44	T	2,2,4-Trimethylpentane	1.574	1.841	-17.0	101	0.00
45	T	t-1,3-Dichloropropene	0.293	0.322	-9.9	97	0.01
46	T	cis-1,3-Dichloropropene	0.386	0.448	-16.1	98	0.00
47	T	1,1,2-Trichloroethane	0.390	0.389	0.3	98	0.00
48	T	Dibromochloromethane	0.498	0.573	-15.1	98	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 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	0.399	0.477	-19.5	100	0.00
50	T	4-Methyl-2-Pentanone	0.911	1.141	-25.2	103	0.00
51	T	2-Hexanone	0.689	0.906	-31.5#	101	0.00
52	T	Tetrachloroethene	0.283	0.314	-11.0	100	0.00
53	T	Toluene	0.850	1.053	-23.9	99	0.00
54	T	1,2-Dibromoethane	0.479	0.515	-7.5	100	0.00
55	I	Chlorobenzene-d5	1.000	1.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	0.570	0.592	-3.9	102	0.00
57	T	Chlorobenzene	1.045	1.028	1.6	98	0.00
58	T	Ethyl Benzene	1.363	1.767	-29.6	100	0.00
59	T	m/p-Xylene	1.201	1.523	-26.8	100	0.00
60	T	o-Xylene	1.170	1.510	-29.1	99	0.00
61	T	Styrene	0.454	0.610	-34.4#	100	0.00
62		Isopropylbenzene	1.839	2.246	-22.1	99	0.00
63	T	1,1,2,2-Tetrachloroethane	1.026	1.006	1.9	99	0.00
64		n-propylbenzene	0.472	0.584	-23.7	99	0.00
65		tert-Butylbenzene	1.657	2.057	-24.1	101	0.00
66	T	Benzyl Chloride	0.139	0.141	-1.4	92	0.00
67		sec-Butylbenzene	2.417	2.905	-20.2	99	0.00
68	S	1-Bromo-4-Fluorobenzene	0.856	0.879	-2.7	91	0.00
69		p-Isopropyltoluene	1.898	2.356	-24.1	97	0.00
70		n-Butylbenzene	1.907	2.331	-22.2	97	0.00
71		2-Chlorotoluene	1.335	1.649	-23.5	98	0.00
72	T	4-Ethyltoluene	1.415	1.789	-26.4	97	0.00
73	T	1,3,5-Trimethylbenzene	1.239	1.557	-25.7	98	0.00
74	T	1,2,4-Trimethylbenzene	1.436	1.734	-20.8	98	0.00
75	T	1,3-Dichlorobenzene	0.961	0.969	-0.8	95	0.00
76	T	1,4-Dichlorobenzene	0.925	0.969	-4.8	96	0.00
77	T	1,2-Dichlorobenzene	1.001	0.964	3.7	96	0.00
78	T	Hexachloro-1,3-Butadiene	0.711	0.617	13.2	95	0.00
79	T	Naphthalene	1.058	1.310	-23.8	91	0.00
80	T	Naphthalene,2-methyl-	0.391	0.374	4.3	87	0.00
81	T	1,2,4-Trichlorobenzene	0.586	0.605	-3.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 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	95	0.00
2	T	Dichlorodifluoromethane	10.000	9.441	5.6	99	0.00
3		Chlorodifluoromethane	10.000	9.583	4.2	102	0.00
4		Chloromethane	10.000	9.646	3.5	101	0.00
5	T	Vinyl Chloride	10.000	8.892	11.1	102	0.00
6	T	Bromomethane	10.000	9.136	8.6	96	0.00
7		Chloroethane	10.000	9.206	7.9	102	0.00
8	T	Dichlorotetrafluoroethane	10.000	9.546	4.5	99	0.00
9	T	Propene	10.000	9.937	0.6	104	0.00
10	T	Heptane	10.000	11.792	-17.9	99	0.00
11	T	Trichlorofluoromethane	10.000	9.445	5.5	99	0.00
12	T	1,1,2-Trichlorotrifluoroeth	10.000	9.585	4.1	100	0.00
13		Ethanol	10.000	5.755	42.4#	106	0.00
14	T	Bromoethene	10.000	9.651	3.5	98	0.00
15	T	Acetone	10.000	7.941	20.6	102	0.00
16	T	1,3-Butadiene	10.000	9.507	4.9	102	0.00
17		tert-Butyl alcohol	10.000	9.837	1.6	102	0.00
18	T	1,1-Dichloroethene	10.000	9.639	3.6	100	0.00
19	T	Isopropyl Alcohol	10.000	8.675	13.2	103	0.00
20	T	Methylene Chloride	10.000	8.492	15.1	101	0.00
21	T	Allyl Chloride	10.000	10.107	-1.1	100	0.00
22	T	trans-1,2-Dichloroethene	10.000	9.551	4.5	100	0.00
23	T	Vinyl Acetate	10.000	9.423	5.8	97	0.00
24	T	1,1-Dichloroethane	10.000	9.570	4.3	100	0.00
25	T	Ethyl Acetate	10.000	10.738	-7.4	102	0.00
26	T	Hexane	10.000	11.223	-12.2	101	0.00
27	T	Carbon Disulfide	10.000	11.210	-12.1	101	0.00
28	T	Methyl tert-Butyl Ether	10.000	10.417	-4.2	106	0.00
29	T	Chloroform	10.000	9.536	4.6	101	0.00
30	T	Cyclohexane	10.000	11.797	-18.0	102	0.00
31	T	cis-1,2-Dichloroethene	10.000	10.398	-4.0	101	0.00
32	T	1,1,1-Trichloroethane	10.000	9.874	1.3	100	0.00
33	I	1,4-Difluorobenzene	10.000	10.000	0.0	92	0.00
34	T	2-Butanone	10.000	10.377	-3.8	103	0.00
35	T	Carbon Tetrachloride	10.000	10.414	-4.1	98	0.00
36	T	Benzene	10.000	10.733	-7.3	101	0.00
37	T	1,2-Dichloroethane	10.000	10.067	-0.7	98	0.00
38	T	Trichloroethene	10.000	10.476	-4.8	101	0.00
39	T	1,2-Dichloropropane	10.000	10.151	-1.5	100	0.00
40	T	1,4-Dioxane	10.000	11.695	-17.0	103	0.00
41	T	Tetrahydrofuran	10.000	11.934	-19.3	103	0.00
42	T	Bromodichloromethane	10.000	10.899	-9.0	100	0.00
43		Methyl Methacrylate	10.000	12.265	-22.7	101	0.00
44	T	2,2,4-Trimethylpentane	10.000	11.694	-16.9	101	0.00
45	T	t-1,3-Dichloropropene	10.000	11.008	-10.1	97	0.01
46	T	cis-1,3-Dichloropropene	10.000	11.616	-16.2	98	0.00
47	T	1,1,2-Trichloroethane	10.000	9.973	0.3	98	0.00
48	T	Dibromochloromethane	10.000	11.520	-15.2	98	0.00

Evaluate Continuing Calibration Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041845.D
Acq On : 07 Jan 2025 14:10
Operator : SY/MD
Sample : VSTDICV010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
ICVVL010725

Quant Time: Jan 08 03:34:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49	T	Bromoform	10.000	11.953	-19.5	100	0.00
50	T	4-Methyl-2-Pentanone	10.000	12.525	-25.3	103	0.00
51	T	2-Hexanone	10.000	13.141	-31.4#	101	0.00
52	T	Tetrachloroethene	10.000	11.100	-11.0	100	0.00
53	T	Toluene	10.000	12.382	-23.8	99	0.00
54	T	1,2-Dibromoethane	10.000	10.765	-7.7	100	0.00
55	I	Chlorobenzene-d5	10.000	10.000	0.0	93	0.00
56		1,1,1,2-Tetrachloroethane	10.000	10.379	-3.8	102	0.00
57	T	Chlorobenzene	10.000	9.844	1.6	98	0.00
58	T	Ethyl Benzene	10.000	12.964	-29.6	100	0.00
59	T	m/p-Xylene	20.000	25.362	-26.8	100	0.00
60	T	o-Xylene	10.000	12.905	-29.0	99	0.00
61	T	Styrene	10.000	13.435	-34.4#	100	0.00
62		Isopropylbenzene	10.000	12.217	-22.2	99	0.00
63	T	1,1,2,2-Tetrachloroethane	10.000	9.806	1.9	99	0.00
64		n-propylbenzene	10.000	12.391	-23.9	99	0.00
65		tert-Butylbenzene	10.000	12.414	-24.1	101	0.00
66	T	Benzyl Chloride	10.000	10.193	-1.9	92	0.00
67		sec-Butylbenzene	10.000	12.017	-20.2	99	0.00
68	S	1-Bromo-4-Fluorobenzene	10.000	10.260	-2.6	91	0.00
69		p-Isopropyltoluene	10.000	12.411	-24.1	97	0.00
70		n-Butylbenzene	10.000	12.223	-22.2	97	0.00
71		2-Chlorotoluene	10.000	12.356	-23.6	98	0.00
72	T	4-Ethyltoluene	10.000	12.644	-26.4	97	0.00
73	T	1,3,5-Trimethylbenzene	10.000	12.558	-25.6	98	0.00
74	T	1,2,4-Trimethylbenzene	10.000	12.078	-20.8	98	0.00
75	T	1,3-Dichlorobenzene	10.000	10.080	-0.8	95	0.00
76	T	1,4-Dichlorobenzene	10.000	10.476	-4.8	96	0.00
77	T	1,2-Dichlorobenzene	10.000	9.629	3.7	96	0.00
78	T	Hexachloro-1,3-Butadiene	10.000	8.677	13.2	95	0.00
79	T	Naphthalene	10.000	12.385	-23.8	91	0.00
80	T	Naphthalene,2-methyl-	10.000	9.565	4.4	87	0.00
81	T	1,2,4-Trichlorobenzene	10.000	10.316	-3.2	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: GFEL01

Lab Code: CHEM Case No.: Q1031 SAS No.: Q1031 SDG No.: Q1031

Instrument ID: MSVOA_L Calibration Date/Time: 01/07/2025 09:18

Lab File ID: VL041838.D Init. Calib. Date(s): 01/07/2025 01/07/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:18 12:25

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

COMPOUND	RRF	RRF010	MIN RRF	%D	MAX%D
Vinyl Chloride	0.681	0.561		-17.62	
1,1-Dichloroethene	0.520	0.474		-8.85	
cis-1,2-Dichloroethene	1.103	1.078		-2.27	
1,1,1-Trichloroethane	1.804	1.685		-6.6	
Trichloroethene	0.367	0.351		-4.36	
Tetrachloroethene	0.283	0.290		2.47	
1-Bromo-4-Fluorobenzene	0.856	0.898		4.91	

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.800	49	97717	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.975	114	232315	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.898	117	198370	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.390	95	178169	10.487	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 104.900%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	144187	8.993	ppbv		100
3) Chlorodifluoromethane	1.479	51	136457	8.907	ppbv		100
4) Chloromethane	1.538	50	59602	9.040	ppbv		100
5) Vinyl Chloride	1.586	62	54824	8.244	ppbv		100
6) Bromomethane	1.674	94	25634	8.999	ppbv		100
7) Chloroethane	1.709	64	21958	8.578	ppbv		100
8) Dichlorotetrafluoroethane	1.557	85	126162	9.120	ppbv		100
9) Propene	1.489	41	48251	9.047	ppbv		100
10) Heptane	5.004	43	148658	11.283	ppbv		100
11) Trichlorofluoromethane	1.884	101	146982	9.015	ppbv		100
12) 1,1,2-Trichlorotrifluo...	2.149	101	110744	9.121	ppbv		100
13) Ethanol	1.729	45	3612m	5.891	ppbv		
14) Bromoethene	1.787	108	36921	9.288	ppbv		100
15) Acetone	1.842	43	132708	7.377	ppbv		100
16) 1,3-Butadiene	1.612	39	62332	8.836	ppbv		100
17) tert-Butyl alcohol	2.049	59	142263	9.126	ppbv		100
18) 1,1-Dichloroethene	2.043	96	46359	9.119	ppbv		100
19) Isopropyl Alcohol	1.894	45	67181	7.955	ppbv		100
20) Methylene Chloride	2.068	84	40886	7.950	ppbv		100
21) Allyl Chloride	2.104	41	88727	9.574	ppbv		100
22) trans-1,2-Dichloroethene	2.350	96	51671	9.094	ppbv		100
23) Vinyl Acetate	2.473	43	51668	8.955	ppbv		100
24) 1,1-Dichloroethane	2.418	63	113332	9.114	ppbv		100
25) Ethyl Acetate	2.845	43	301260	9.986	ppbv		100
26) Hexane	2.839	57	110574	10.560	ppbv		100
27) Carbon Disulfide	2.159	76	104642	10.530	ppbv		100
28) Methyl tert-Butyl Ether	2.450	73	73317	9.291	ppbv		100
29) Chloroform	2.861	83	173414	8.915	ppbv		100
30) Cyclohexane	3.875	84	87356	10.996	ppbv		100
31) cis-1,2-Dichloroethene	2.732	61	105358	9.776	ppbv		100
32) 1,1,1-Trichloroethane	3.383	97	164630	9.339	ppbv		100
34) 2-Butanone	2.567	43	170386	9.311	ppbv		100
35) Carbon Tetrachloride	3.781	117	171330	9.758	ppbv		100
36) Benzene	3.674	78	216013	9.733	ppbv		100
37) 1,2-Dichloroethane	3.230	62	138068	9.463	ppbv		100
38) Trichloroethene	4.570	130	81606	9.380	ppbv		100
39) 1,2-Dichloropropane	4.334	63	80487	9.375	ppbv		100
40) 1,4-Dioxane	4.606	88	34679	10.425	ppbv	#	100
41) Tetrahydrofuran	3.069	42	91594	10.618	ppbv		100
42) Bromodichloromethane	4.512	83	172183	10.063	ppbv		100
43) Methyl Methacrylate	4.904	69	77566	11.130	ppbv		100
44) 2,2,4-Trimethylpentane	4.661	57	390617	10.683	ppbv		100
45) t-1,3-Dichloropropene	6.438	75	70965	10.430	ppbv		100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) cis-1,3-Dichloropropene	5.632	75	97612	10.905	ppbv	100
47) 1,1,2-Trichloroethane	6.606	97	84906	9.351	ppbv	100
48) Dibromochloromethane	7.409	129	124570	10.778	ppbv	100
49) Bromoform	9.500	173	101730	10.982	ppbv	100
50) 4-Methyl-2-Pentanone	5.784	43	237056	11.212	ppbv	100
51) 2-Hexanone	7.457	43	190925	11.921	ppbv	100
52) Tetrachloroethene	8.244	164	67367	10.236	ppbv	100
53) Toluene	6.959	91	226694	11.464	ppbv	100
54) 1,2-Dibromoethane	7.674	107	110192	9.910	ppbv	100
56) 1,1,1,2-Tetrachloroethane	8.940	131	107276	9.488	ppbv	100
57) Chlorobenzene	8.940	112	193822	9.352	ppbv	100
58) Ethyl Benzene	9.370	91	325850	12.052	ppbv	100
59) m/p-Xylene	9.565	91	564970m	23.662	ppbv	
60) o-Xylene	9.979	91	281728	12.136	ppbv	100
61) Styrene	9.885	104	112526	12.495	ppbv	100
62) Isopropylbenzene	10.552	105	417672	11.452	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	188048	9.238	ppbv	100
64) n-propylbenzene	11.002	120	109323	11.684	ppbv	100
65) tert-Butylbenzene	11.545	119	375903	11.438	ppbv	100
66) Benzyl Chloride	11.630	91	28370	10.329	ppbv	100
67) sec-Butylbenzene	11.782	105	541663	11.295	ppbv	100
69) p-Isopropyltoluene	11.937	119	449331	11.935	ppbv	100
70) n-Butylbenzene	12.293	91	444870	11.762	ppbv	100
71) 2-Chlorotoluene	10.914	91	310040	11.712	ppbv	100
72) 4-Ethyltoluene	11.138	105	339692	12.100	ppbv	100
73) 1,3,5-Trimethylbenzene	11.218	105	292453	11.894	ppbv	100
74) 1,2,4-Trimethylbenzene	11.552	105	326247	11.455	ppbv	100
75) 1,3-Dichlorobenzene	11.620	146	188321	9.880	ppbv	100
76) 1,4-Dichlorobenzene	11.685	146	186446	10.164	ppbv	100
77) 1,2-Dichlorobenzene	11.960	146	185674	9.347	ppbv	100
78) Hexachloro-1,3-Butadiene	13.895	225	120191	8.523	ppbv	100
79) Naphthalene	13.526	128	266390	12.698	ppbv	100
80) Naphthalene,2-methyl-	14.471	142	79067	10.182	ppbv	100
81) 1,2,4-Trichlorobenzene	13.455	180	118002	10.148	ppbv	100

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

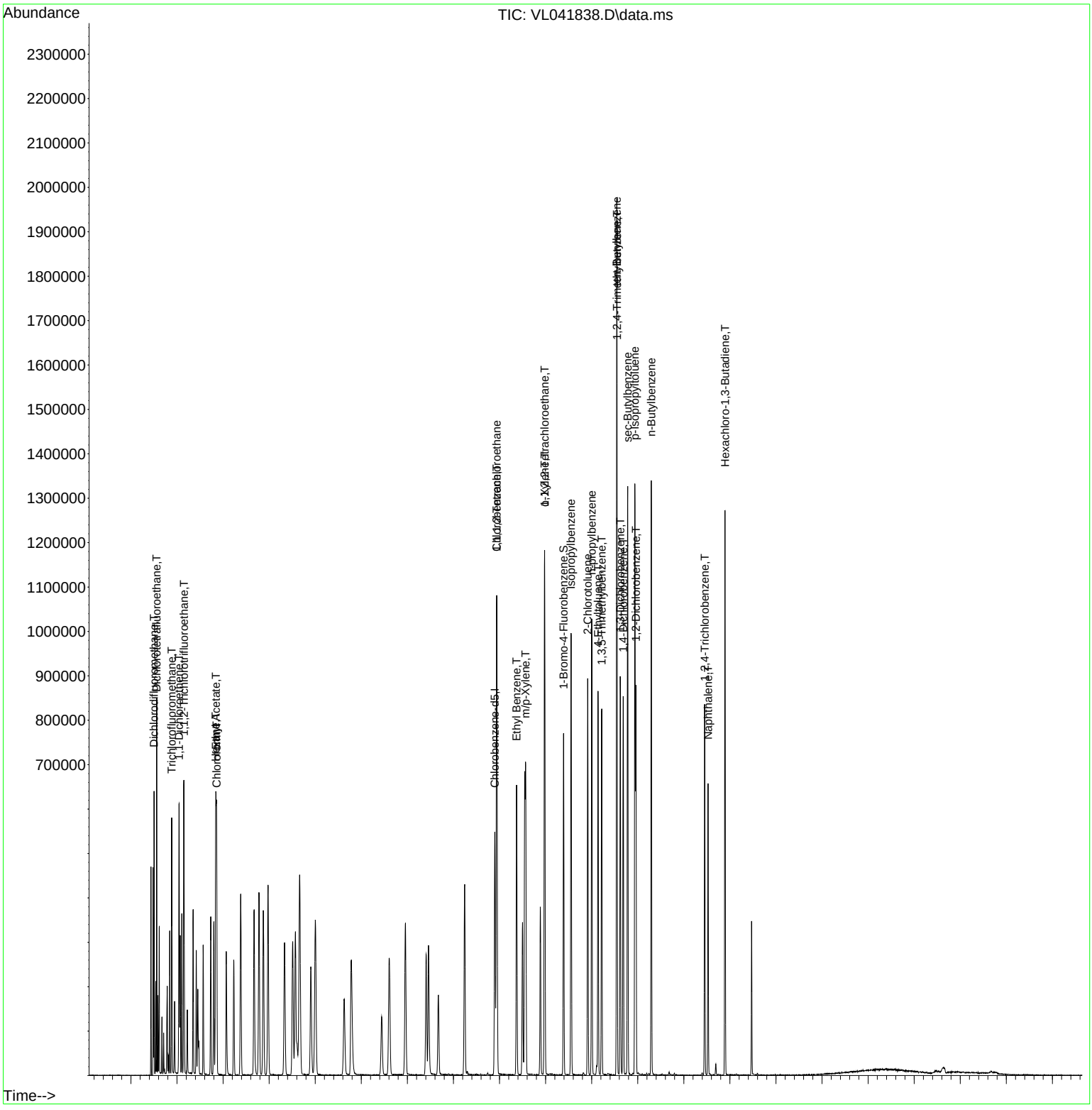
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041838.D
Acq On : 07 Jan 2025 09:18
Operator : SY/MD
Sample : VSTDICCC010
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 01:19:55 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 01:18:22 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



QC SAMPLE DATA

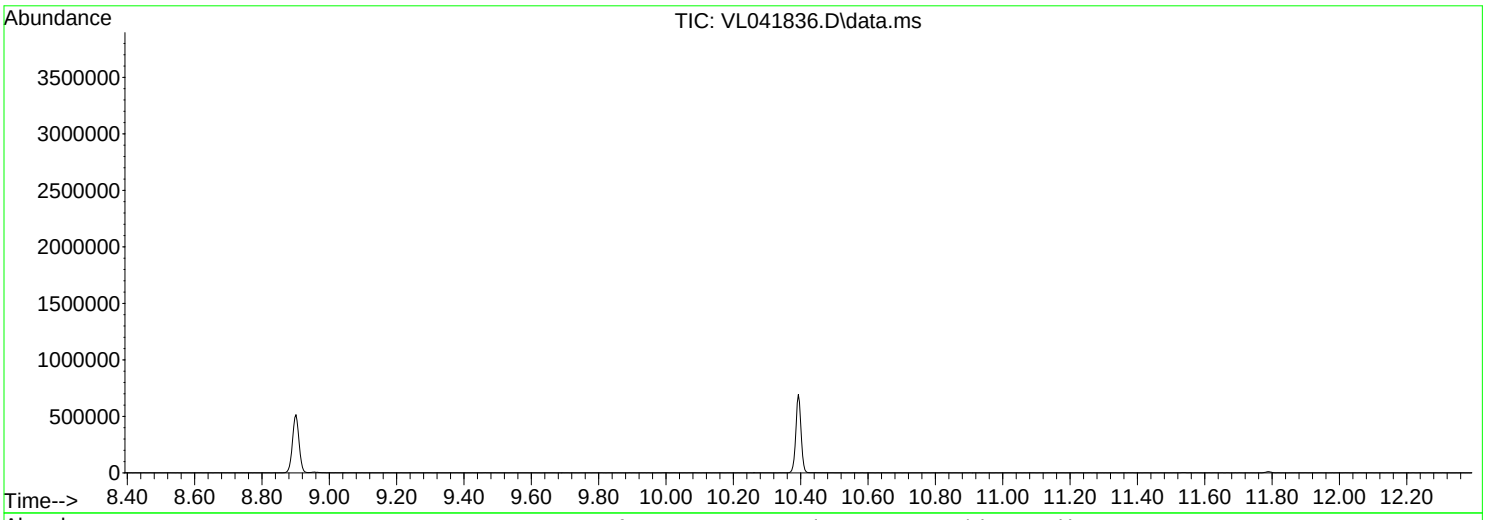
BFB

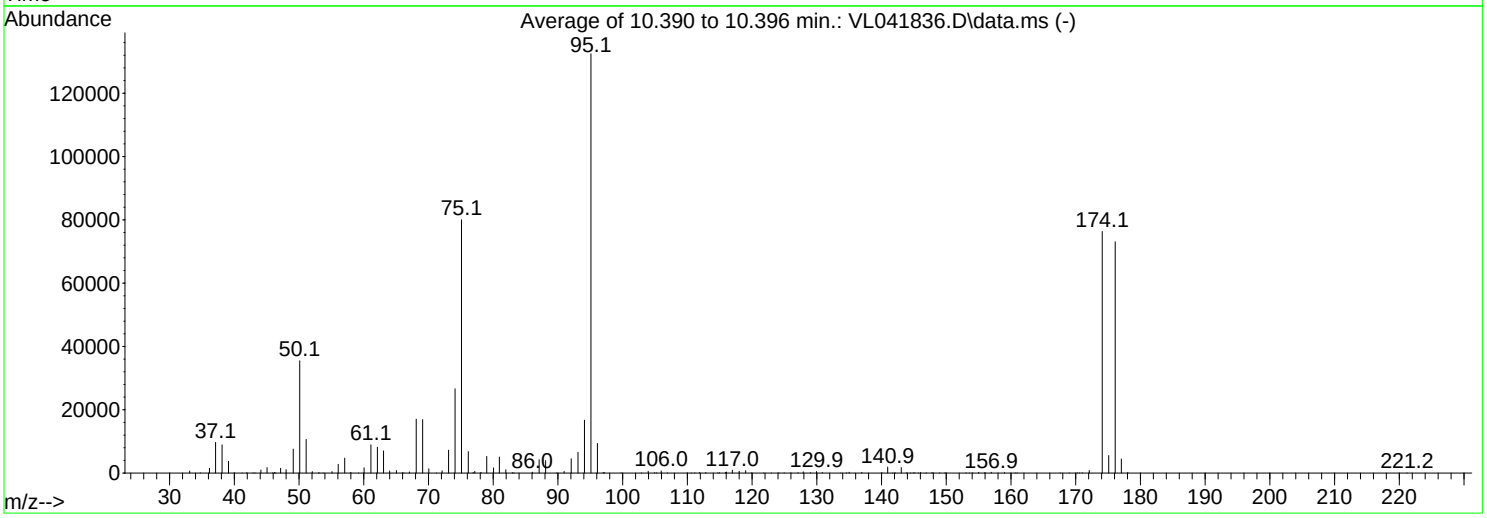
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041836.D
Acq On : 07 Jan 2025 08:06
Operator : SY/MD
Sample : BFB
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
Last Update : Wed Jan 08 03:26:12 2025





AutoFind: Scans 3183, 3184, 3185; 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	26.8	35475	PASS
75	95	30	66	60.4	80027	PASS
95	95	100	100	100.0	132480	PASS
96	95	5	9	7.1	9366	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	57.6	76320	PASS
175	174	4	9	7.2	5523	PASS
176	174	93	101	95.8	73091	PASS
177	176	5	9	6.1	4466	PASS

Average of 10.390 to 10.396 min.: VL041836.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
33.10	650	44.10	978	53.00	75	63.05	7000
34.75	41	45.05	1757	53.20	63	64.00	665
36.15	1528	45.90	22	53.70	54	65.05	797
37.10	9699	46.20	204	55.10	476	65.95	128
38.10	8943	46.40	63	56.05	2780	66.20	47
39.10	3730	47.15	1514	57.05	4728	67.05	373
40.00	97	48.00	1099	58.00	215	68.10	17043
41.20	25	49.10	7584	59.20	38	69.10	16889
41.90	88	50.10	35475	60.05	1686	70.05	1350
42.90	86	51.10	10644	61.10	8934	71.20	28
43.20	24	52.05	463	62.10	8179	72.10	752

Instrument :
MSVOA_L
ClientSampleId :
BFB

Average of 10.390 to 10.396 min.: VL041836.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
73.10	7232	82.95	157	96.10	9366	110.60	37
74.10	26627	83.20	86	97.00	230	111.15	73
75.10	80027	86.05	297	97.20	136	111.85	144
76.15	6787	87.10	4239	99.75	57	112.85	187
76.90	201	88.10	3966	102.90	43	114.70	42
77.15	541	89.80	23	103.95	599	114.95	130
78.10	233	90.95	542	104.95	132	115.90	216
79.00	5275	92.05	4523	105.20	90	116.05	350
80.05	1633	93.10	6550	105.95	691	116.95	943
80.95	5086	94.10	16713	106.95	57	118.00	594
81.95	1044	95.10	132480	110.00	19	119.00	783

Average of 10.390 to 10.396 min.: VL041836.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
119.90	26	133.70	21	144.90	98	153.60	41
121.80	18	134.60	84	145.15	117	154.10	73
123.00	19	135.00	283	145.70	34	155.00	235
124.15	63	136.95	243	146.05	179	155.90	101
124.95	74	140.05	139	146.90	112	156.10	50
126.00	66	140.95	1883	147.80	168	156.95	262
127.10	108	141.70	30	148.00	44	159.00	164
127.90	421	142.10	93	149.00	83	160.65	71
129.05	149	143.05	1759	149.80	63	160.95	46
129.95	505	143.90	98	150.00	63	167.60	43
130.85	190	144.50	42	153.05	81	169.00	46

Average of 10.390 to 10.396 min.: VL041836.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
170.25	76						
170.60	47						
171.00	92						
172.10	833						
174.10	76320						
175.10	5523						
176.10	73091						
177.05	4466						
178.05	171						
221.20	24						

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

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	182 Ralph Ave, Brooklyn NY	Date Received:	
Client Sample ID:	VL0107ABL01	SDG No.:	Q1031
Lab Sample ID:	VL0107ABL01	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
VL041846.D	1		01/07/25 15:55	VL010725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	0.010	0.030	U	0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	0.14	0.56	U	0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	0.090	0.36	U	0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	0.010	0.050	U	0.050	0.16	ug/m3
79-01-6	Trichloroethene	0.020	0.11	U	0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	0.020	0.14	U	0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	9.30			65 - 135	93%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	90200		2.8			
540-36-3	1,4-Difluorobenzene	206000		3.981			
3114-55-4	Chlorobenzene-d5	172000		8.901			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041846.D
Acq On : 07 Jan 2025 15:55
Operator : SY/MD
Sample : VL0107ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABL01

Quant Time: Jan 08 03:55:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

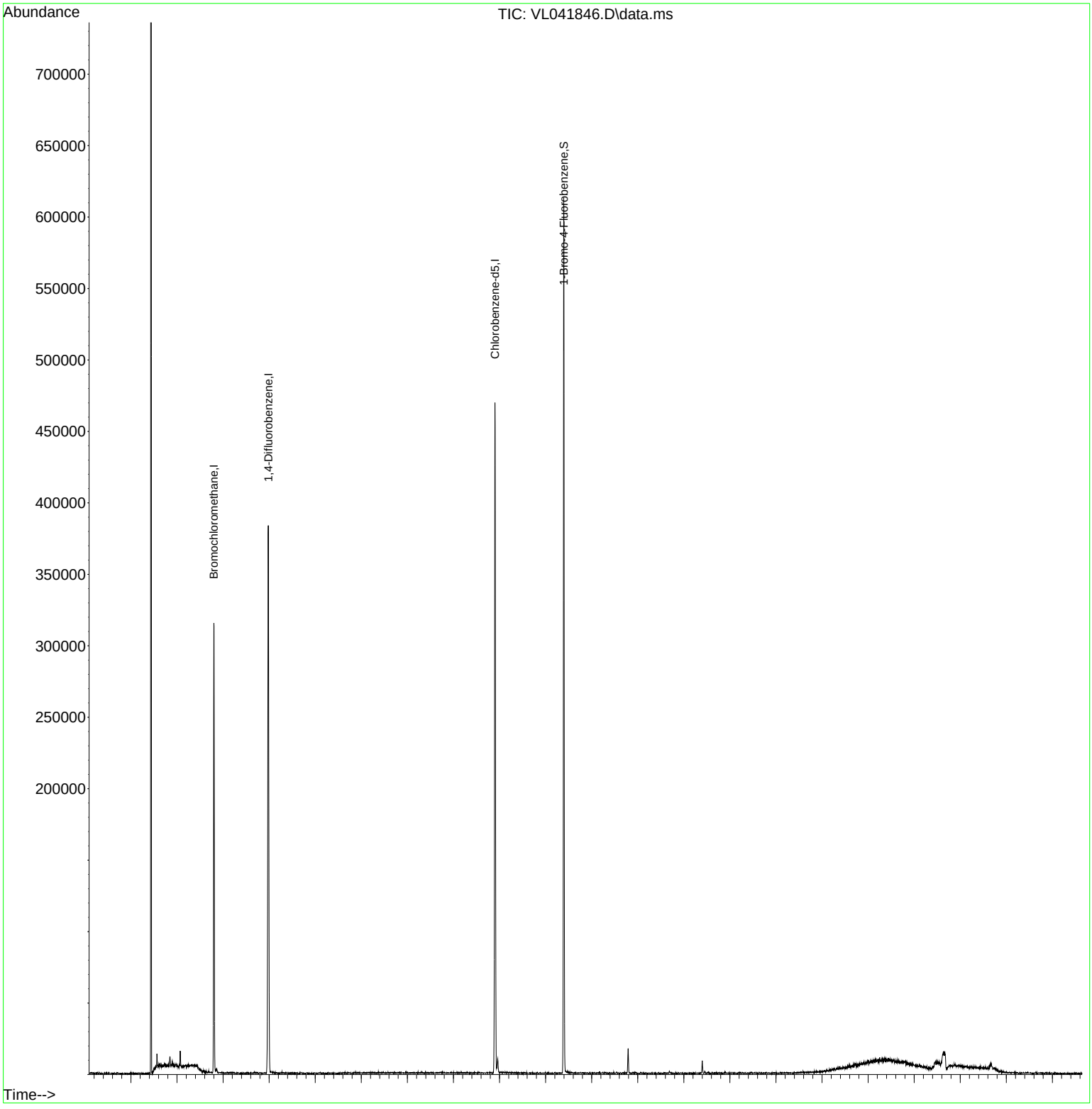
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	2.800	49	90245	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.981	114	205689	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.901	117	171847	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.393	95	136731	9.290	ppbv	0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 92.900%			
Target Compounds						Qvalue

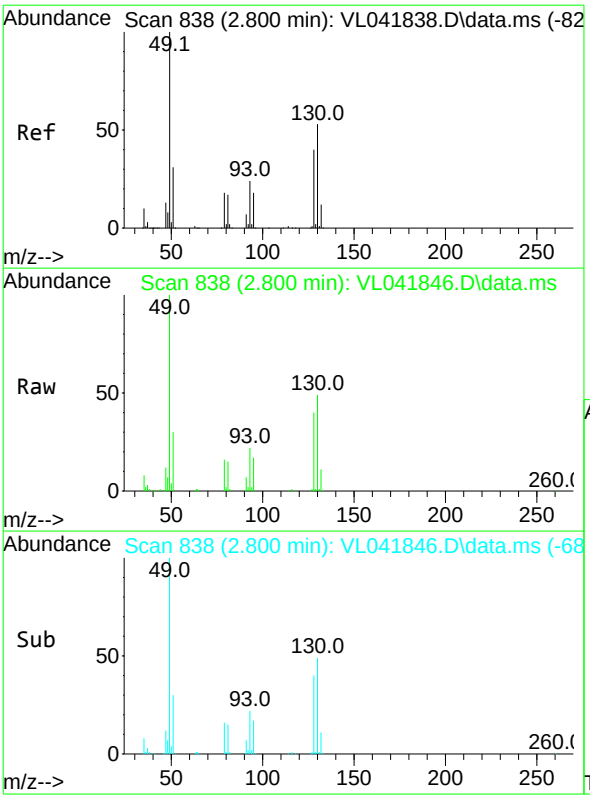
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041846.D
Acq On : 07 Jan 2025 15:55
Operator : SY/MD
Sample : VL0107ABL01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABL01

Quant Time: Jan 08 03:55:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration



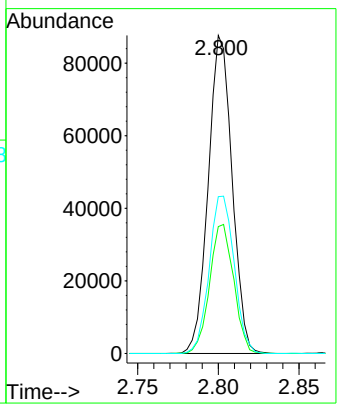


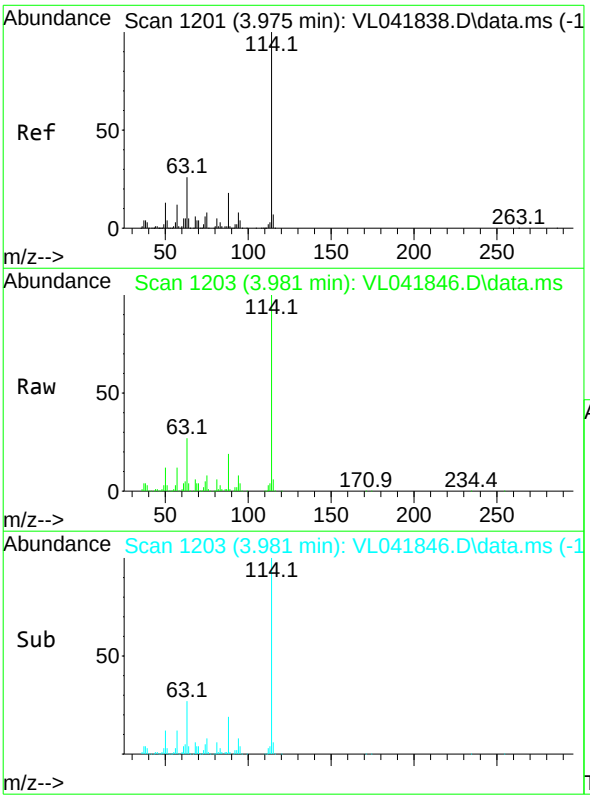
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 83
Delta R.T. -0.000 min
Lab File: VL041846.D
Acq: 07 Jan 2025 15:55

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABL01

Tgt Ion: 49 Resp: 90245

Ion	Ratio	Lower	Upper
49	100		
128	40.9	19.7	59.1
130	51.7	26.4	79.2

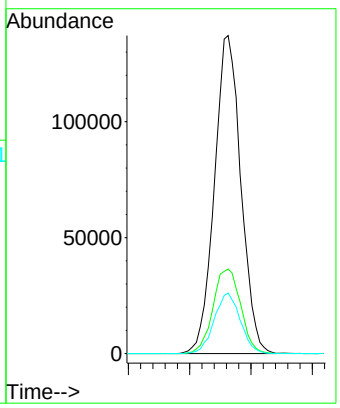


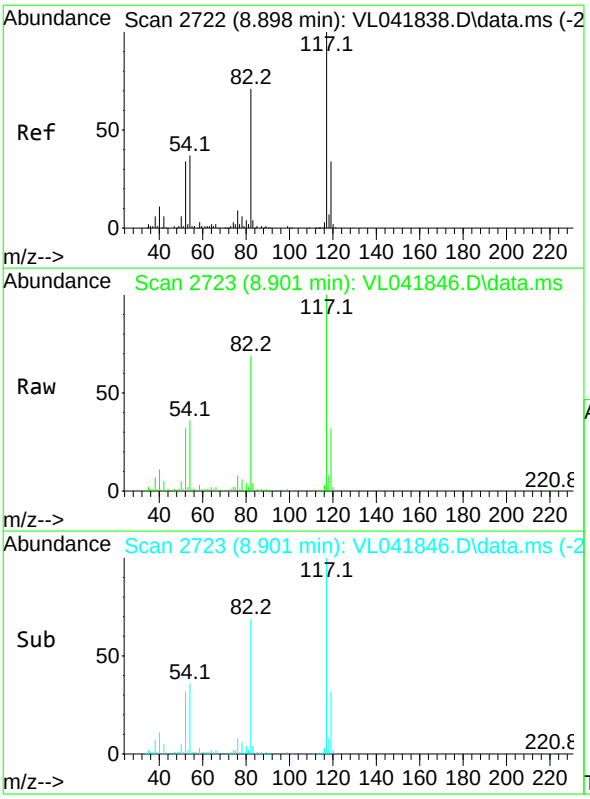


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.981 min Scan# 1203
Delta R.T. 0.007 min
Lab File: VL041846.D
Acq: 07 Jan 2025 15:55

Tgt Ion:114 Resp: 205689

Ion	Ratio	Lower	Upper
114	100		
63	27.8	22.3	33.5
88	18.7	14.9	22.3



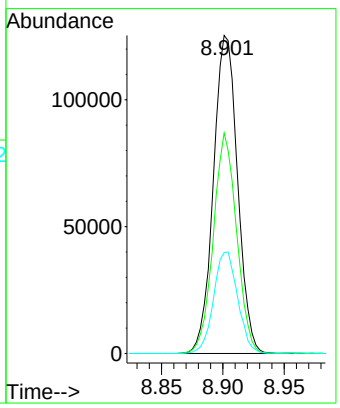


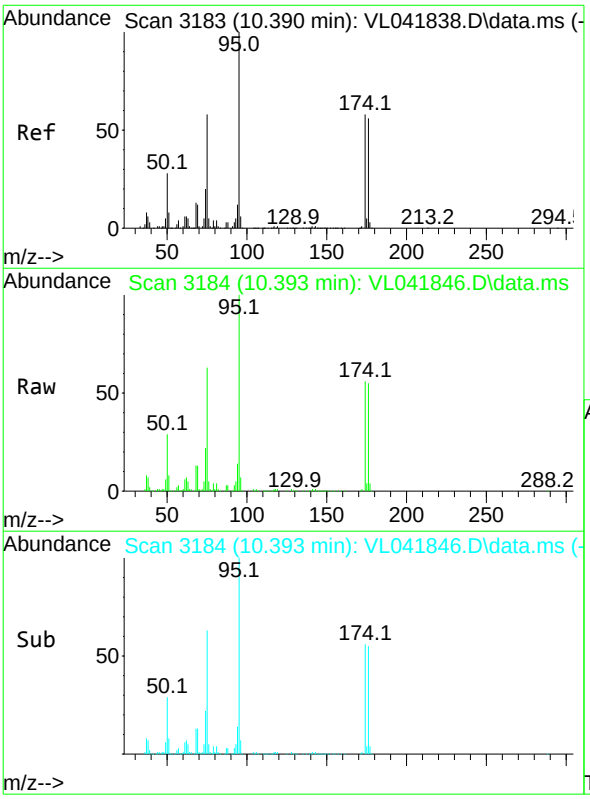
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.901 min Scan# 27
Delta R.T. 0.003 min
Lab File: VL041846.D
Acq: 07 Jan 2025 15:55

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABL01

Tgt Ion:117 Resp: 171847

Ion	Ratio	Lower	Upper
117	100		
82	66.9	59.1	88.7
119	31.9	27.3	40.9

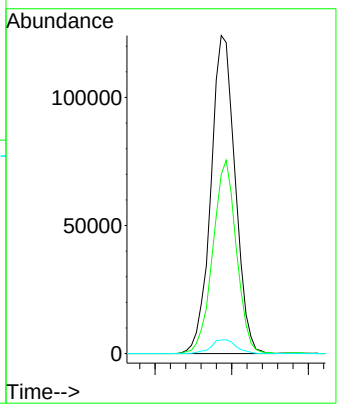




#68
1-Bromo-4-Fluorobenzene
Concen: 9.290 ppbv
RT: 10.393 min Scan# 3184
Delta R.T. 0.003 min
Lab File: VL041846.D
Acq: 07 Jan 2025 15:55

Tgt Ion: 95 Resp: 136731

Ion	Ratio	Lower	Upper
95	100		
174	59.2	47.6	71.4
175	4.5	3.8	5.6



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Fax : 908 789 8922

Report of Analysis

Client:	GFE LLC	Date Collected:	
Project:	182 Ralph Ave, Brooklyn NY	Date Received:	
Client Sample ID:	VL0107ABS01	SDG No.:	Q1031
Lab Sample ID:	VL0107ABS01	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
VL041854.D	1		01/07/25 20:36	VL010725

CAS Number	Parameter	Conc. ppbv	Conc. ug/M3	Qualifier	MDL	LOQ / CRQL	Units
TARGETS							
75-01-4	Vinyl Chloride	9.20	23.5		0.030	0.080	ug/m3
75-35-4	1,1-Dichloroethene	9.80	38.9		0.56	1.98	ug/m3
156-59-2	cis-1,2-Dichloroethene	10.3	40.8		0.36	1.98	ug/m3
71-55-6	1,1,1-Trichloroethane	10.2	55.6		0.050	0.16	ug/m3
79-01-6	Trichloroethene	10.7	57.5		0.11	0.16	ug/m3
127-18-4	Tetrachloroethene	11.6	78.7		0.14	0.20	ug/m3
SURROGATES							
460-00-4	1-Bromo-4-Fluorobenzene	10.7			65 - 135	107%	SPK: 10
INTERNAL STANDARDS							
74-97-5	Bromochloromethane	86000		2.793			
540-36-3	1,4-Difluorobenzene	195000		3.971			
3114-55-4	Chlorobenzene-d5	166000		8.894			

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

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041854.D
Acq On : 07 Jan 2025 20:36
Operator : SY/MD
Sample : VL0107ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:58:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABS01

Manual Integrations APPROVED
Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Bromochloromethane	2.793	49	85990	10.000	ppbv		0.00
33) 1,4-Difluorobenzene	3.971	114	194920	10.000	ppbv		0.00
55) Chlorobenzene-d5	8.894	117	165772	10.000	ppbv		0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene	10.387	95	151241	10.652	ppbv		0.00
Spiked Amount 10.000	Range 65 - 135		Recovery = 106.500%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.502	85	146771	10.402	ppbv		99
3) Chlorodifluoromethane	1.479	51	135919	10.082	ppbv		99
4) Chloromethane	1.534	50	60366	10.404	ppbv		97
5) Vinyl Chloride	1.583	62	53590	9.158	ppbv		99
6) Bromomethane	1.670	94	24581	9.806	ppbv		99
7) Chloroethane	1.709	64	22309	9.903	ppbv		98
8) Dichlorotetrafluoroethane	1.557	85	125331	10.296	ppbv		100
9) Propene	1.486	41	45656	9.728	ppbv		99
10) Heptane	4.994	43	144790	12.489	ppbv		98
11) Trichlorofluoromethane	1.881	101	148270	10.335	ppbv		98
12) 1,1,2-Trichlorotrifluo...	2.146	101	109192	10.219	ppbv		99
13) Ethanol	1.725	45	2779	4.507	ppbv		92
14) Bromoethene	1.787	108	35736	10.216	ppbv		98
15) Acetone	1.839	43	135237	8.542	ppbv		97
16) 1,3-Butadiene	1.612	39	65023	10.474	ppbv		96
17) tert-Butyl alcohol	2.046	59	138354	10.086	ppbv		100
18) 1,1-Dichloroethene	2.039	96	43896	9.812	ppbv		95
19) Isopropyl Alcohol	1.890	45	64033	8.616	ppbv		99
20) Methylene Chloride	2.065	84	40402	8.927	ppbv		95
21) Allyl Chloride	2.101	41	85878	10.530	ppbv		98
22) trans-1,2-Dichloroethene	2.347	96	50124	10.025	ppbv		91
23) Vinyl Acetate	2.470	43	41833	8.496	ppbv	#	95
24) 1,1-Dichloroethane	2.415	63	113470	10.369	ppbv		99
25) Ethyl Acetate	2.842	43	295219	11.120	ppbv		99
26) Hexane	2.835	57	105115	11.408	ppbv		95
27) Carbon Disulfide	2.156	76	104740	11.977	ppbv		100
28) Methyl tert-Butyl Ether	2.447	73	66688	9.603	ppbv		100
29) Chloroform	2.858	83	173121	10.114	ppbv		98
30) Cyclohexane	3.871	84	83245	11.914	ppbv		98
31) cis-1,2-Dichloroethene	2.729	61	97209	10.250	ppbv		99
32) 1,1,1-Trichloroethane	3.379	97	158450	10.214	ppbv		99
34) 2-Butanone	2.564	43	162772	10.601	ppbv		99
35) Carbon Tetrachloride	3.774	117	168870	11.463	ppbv		96
36) Benzene	3.667	78	205594	11.041	ppbv		97
37) 1,2-Dichloroethane	3.227	62	132576	10.830	ppbv		99
38) Trichloroethene	4.564	130	76911	10.741	ppbv		94
39) 1,2-Dichloropropane	4.331	63	76980	10.687	ppbv		96
40) 1,4-Dioxane	4.599	88	31586	11.330	ppbv	#	79
41) Tetrahydrofuran	3.065	42	87142	12.048	ppbv		99
42) Bromodichloromethane	4.502	83	168564	11.741	ppbv		97
43) Methyl Methacrylate	4.900	69	72301	12.365	ppbv		99
44) 2,2,4-Trimethylpentane	4.654	57	383142	12.488	ppbv		100
45) t-1,3-Dichloropropene	6.438	75	62730	10.988	ppbv		92

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041854.D
Acq On : 07 Jan 2025 20:36
Operator : SY/MD
Sample : VL0107ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:58:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 2
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) cis-1,3-Dichloropropene	5.622	75	85898	11.427	ppbv		95
47) 1,1,2-Trichloroethane	6.596	97	82732	10.873	ppbv		94
48) Dibromochloromethane	7.402	129	118547	12.224	ppbv		96
49) Bromoform	9.496	173	99742	12.834	ppbv		100
50) 4-Methyl-2-Pentanone	5.771	43	231659	13.046	ppbv		100
51) 2-Hexanone	7.454	43	185684	13.818	ppbv		99
52) Tetrachloroethene	8.237	164	63814	11.558	ppbv		96
53) Toluene	6.952	91	214221	12.926	ppbv		99
54) 1,2-Dibromoethane	7.668	107	106412	11.406	ppbv		100
56) 1,1,1,2-Tetrachloroethane	8.936	131	107865	11.417	ppbv		99
57) Chlorobenzene	8.933	112	187743	10.840	ppbv		93
58) Ethyl Benzene	9.367	91	312700	13.840	ppbv		100
59) m/p-Xylene	9.561	91	559970m	28.132	ppbv		
60) o-Xylene	9.975	91	277919	14.326	ppbv		99
61) Styrene	9.882	104	105876	14.068	ppbv		99
62) Isopropylbenzene	10.548	105	412478	13.534	ppbv		98
63) 1,1,2,2-Tetrachloroethane	9.972	83	186060	10.938	ppbv		99
64) n-propylbenzene	10.998	120	106028	13.560	ppbv		97
65) tert-Butylbenzene	11.542	119	378118	13.768	ppbv		99
66) Benzyl Chloride	11.626	91	25930	11.271	ppbv		99
67) sec-Butylbenzene	11.778	105	533436	13.311	ppbv		100
69) p-Isopropyltoluene	11.934	119	433960	13.793	ppbv		100
70) n-Butylbenzene	12.290	91	435228	13.769	ppbv		99
71) 2-Chlorotoluene	10.911	91	299922	13.557	ppbv		99
72) 4-Ethyltoluene	11.134	105	332097	14.156	ppbv		99
73) 1,3,5-Trimethylbenzene	11.212	105	286930	13.965	ppbv		98
74) 1,2,4-Trimethylbenzene	11.545	105	317547	13.342	ppbv	#	79
75) 1,3-Dichlorobenzene	11.616	146	181271	11.380	ppbv		99
76) 1,4-Dichlorobenzene	11.681	146	180588	11.781	ppbv		99
77) 1,2-Dichlorobenzene	11.956	146	178366	10.745	ppbv		99
78) Hexachloro-1,3-Butadiene	13.892	225	115209	9.776	ppbv		99
79) Naphthalene	13.523	128	241512	13.776	ppbv		98
80) Naphthalene,2-methyl-	14.468	142	56888	8.767	ppbv		98
81) 1,2,4-Trichlorobenzene	13.452	180	107489	11.062	ppbv		99

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

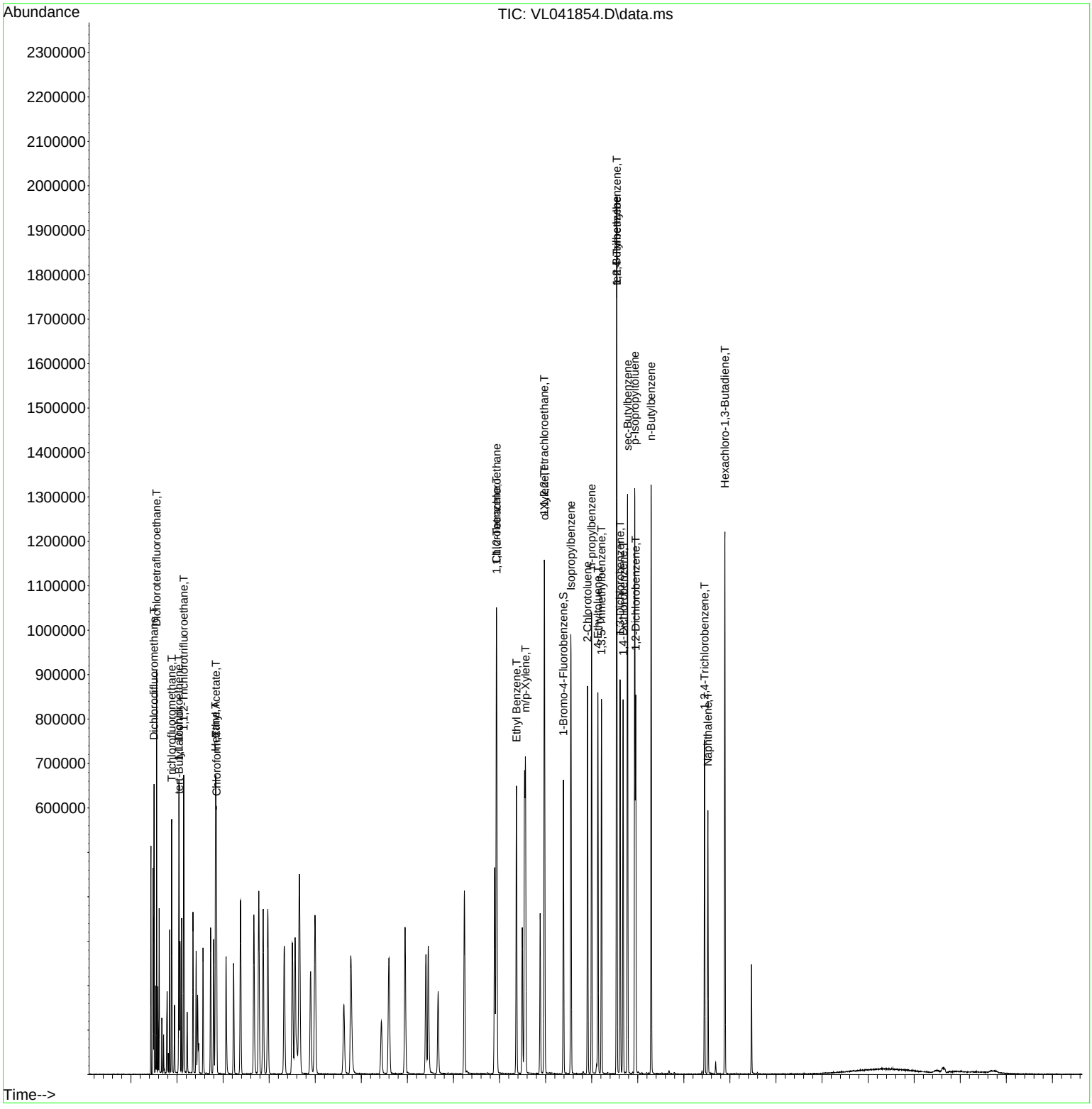
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL010725\
Data File : VL041854.D
Acq On : 07 Jan 2025 20:36
Operator : SY/MD
Sample : VL0107ABS01
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Jan 08 03:58:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL010725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug
QLast Update : Wed Jan 08 03:26:12 2025
Response via : Initial Calibration

Instrument :
MSVOA_L
ClientSampleId :
VL0107ABS01

Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 01/09/2025
Supervised By :Mahesh Dadoda 01/09/2025



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Manual Integration Report

Sequence:	VL010725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICCC010	VL041838.D	Ethanol	SAM	1/9/2025 12:50:30 PM	MMDadoda	1/9/2025 1:12:31 PM	Peak Integrated by Software
VSTDICCC010	VL041838.D	m/p-Xylene	SAM	1/9/2025 12:50:30 PM	MMDadoda	1/9/2025 1:12:31 PM	Peak Integrated by Software
VSTDICC002	VL041839.D	1,4-Dioxane	SAM	1/9/2025 12:50:34 PM	MMDadoda	1/9/2025 1:12:29 PM	Peak Integrated by Software
VSTDICC002	VL041839.D	4-Methyl-2-Pentanone	SAM	1/9/2025 12:50:34 PM	MMDadoda	1/9/2025 1:12:29 PM	Peak Integrated by Software
VSTDICC002	VL041839.D	Benzyl Chloride	SAM	1/9/2025 12:50:34 PM	MMDadoda	1/9/2025 1:12:29 PM	Peak Integrated by Software
VSTDICC002	VL041839.D	cis-1,3-Dichloropropene	SAM	1/9/2025 12:50:34 PM	MMDadoda	1/9/2025 1:12:29 PM	Peak Integrated by Software
VSTDICC002	VL041839.D	m/p-Xylene	SAM	1/9/2025 12:50:34 PM	MMDadoda	1/9/2025 1:12:29 PM	Peak Integrated by Software
VSTDICC002	VL041839.D	t-1,3-Dichloropropene	SAM	1/9/2025 12:50:34 PM	MMDadoda	1/9/2025 1:12:29 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	1,1,2-Trichloroethane	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	1,2-Dichloropropane	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	1,4-Dioxane	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	4-Methyl-2-Pentanone	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	cis-1,3-Dichloropropene	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL010725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VL041840.D	Ethanol	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	m/p-Xylene	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	Methyl Methacrylate	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	Tetrachloroethene	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	Toluene	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC001	VL041840.D	Trichloroethene	SAM	1/9/2025 12:51:31 PM	MMDadoda	1/9/2025 1:12:27 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	1,1,2-Trichloroethane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	1,2-Dibromoethane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	1,4-Dioxane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	2-Hexanone	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	4-Methyl-2-Pentanone	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Bromodichloromethane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Chlorobenzene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL010725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.5	VL041841.D	cis-1,3-Dichloropropene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Cyclohexane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Dibromochloromethane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Heptane	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	m/p-Xylene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Methyl Methacrylate	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	n-propylbenzene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	t-1,3-Dichloropropene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Tetrachloroethene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Tetrahydrofuran	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Toluene	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.5	VL041841.D	Vinyl Acetate	SAM	1/9/2025 12:50:39 PM	MMDadoda	1/9/2025 1:12:25 PM	Peak Integrated by Software
VSTDICC0.1	VL041842.D	1,2-Dibromoethane	SAM	1/9/2025 12:51:45 PM	MMDadoda	1/9/2025 1:12:22 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	VL010725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC0.1	VL041842.D	Tetrachloroethene	SAM	1/9/2025 12:51:45 PM	MMDadoda	1/9/2025 1:12:22 PM	Peak Integrated by Software
VSTDICC0.1	VL041842.D	Trichloroethene	SAM	1/9/2025 12:51:45 PM	MMDadoda	1/9/2025 1:12:22 PM	Peak Integrated by Software
VSTDICC0.03	VL041843.D	1,1,2,2-Tetrachloroethane	SAM	1/9/2025 12:51:01 PM	MMDadoda	1/9/2025 1:12:19 PM	Peak Integrated by Software
VSTDICC0.03	VL041843.D	Carbon Tetrachloride	SAM	1/9/2025 12:51:01 PM	MMDadoda	1/9/2025 1:12:19 PM	Peak Integrated by Software
VSTDICC0.03	VL041843.D	Tetrachloroethene	SAM	1/9/2025 12:51:01 PM	MMDadoda	1/9/2025 1:12:19 PM	Peak Integrated by Software
VSTDICC0.03	VL041843.D	Trichloroethene	SAM	1/9/2025 12:51:01 PM	MMDadoda	1/9/2025 1:12:19 PM	Peak Integrated by Software
VSTDICC015	VL041844.D	m/p-Xylene	SAM	1/9/2025 12:51:26 PM	MMDadoda	1/9/2025 1:12:17 PM	Peak Integrated by Software
VSTDICV010	VL041845.D	4-Methyl-2-Pentanone	SAM	1/9/2025 12:50:56 PM	MMDadoda	1/9/2025 1:12:15 PM	Peak Integrated by Software
VSTDICV010	VL041845.D	Ethanol	SAM	1/9/2025 12:50:56 PM	MMDadoda	1/9/2025 1:12:15 PM	Peak Integrated by Software
VSTDICV010	VL041845.D	m/p-Xylene	SAM	1/9/2025 12:50:56 PM	MMDadoda	1/9/2025 1:12:15 PM	Peak Integrated by Software
Q1031-02	VL041847.D	Benzene	SAM	1/9/2025 12:51:50 PM	MMDadoda	1/9/2025 1:12:13 PM	Peak Integrated by Software
Q1031-02	VL041847.D	m/p-Xylene	SAM	1/9/2025 12:51:50 PM	MMDadoda	1/9/2025 1:12:13 PM	Peak Integrated by Software
Q1031-02	VL041847.D	Toluene	SAM	1/9/2025 12:51:50 PM	MMDadoda	1/9/2025 1:12:13 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL010725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1031-02	VL041847.D	Trichlorofluoromethane	SAM	1/9/2025 12:51:50 PM	MMDadoda	1/9/2025 1:12:13 PM	Peak Integrated by Software
Q1031-02DUP	VL041848.D	2-Butanone	SAM	1/9/2025 12:51:56 PM	MMDadoda	1/9/2025 1:12:11 PM	Peak Integrated by Software
Q1031-02DUP	VL041848.D	Benzene	SAM	1/9/2025 12:51:56 PM	MMDadoda	1/9/2025 1:12:11 PM	Peak Integrated by Software
Q1031-02DUP	VL041848.D	Carbon Tetrachloride	SAM	1/9/2025 12:51:56 PM	MMDadoda	1/9/2025 1:12:11 PM	Peak Integrated by Software
Q1031-02DUP	VL041848.D	m/p-Xylene	SAM	1/9/2025 12:51:56 PM	MMDadoda	1/9/2025 1:12:11 PM	Peak Integrated by Software
Q1031-02DUP	VL041848.D	Toluene	SAM	1/9/2025 12:51:56 PM	MMDadoda	1/9/2025 1:12:11 PM	Peak Integrated by Software
Q1031-01	VL041851.D	Carbon Tetrachloride	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software
Q1031-01	VL041851.D	Ethyl Benzene	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software
Q1031-01	VL041851.D	m/p-Xylene	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software
Q1031-01	VL041851.D	o-Xylene	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software
Q1031-01	VL041851.D	Propene	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software
Q1031-01	VL041851.D	Tetrahydrofuran	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software
Q1031-01	VL041851.D	Toluene	SAM	1/9/2025 12:52:12 PM	MMDadoda	1/9/2025 1:12:04 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	VL010725	Instrument	MSVOA_I

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VL0107ABS01	VL041854.D	m/p-Xylene	SAM	1/9/2025 12:51:16 PM	MMDadoda	1/9/2025 1:12:03 PM	Peak Integrated by Software

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL010725

Review By	Semsettin Yesilyurt	Review On	1/9/2025 1:01:35 PM				
Supervise By	Mahesh Dadoda	Supervise On	1/9/2025 1:12:38 PM				
SubDirectory	VL010725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010725AIR.M		

STD. NAME	STD REF.#
Tune/Reschk	AP2570
Initial Calibration Stds	AP2566,AP2567,AP2568
CCC	AP2566
Internal Standard/PEM	AP2570
ICV/I.BLK	AP2564
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VL041836.D	07 Jan 2025 08:06	SY/MD	Ok
2	VSTDICC0.5	VL041837.D	07 Jan 2025 08:48	SY/MD	Not Ok
3	VSTDICCC010	VL041838.D	07 Jan 2025 09:18	SY/MD	Ok,M
4	VSTDICC002	VL041839.D	07 Jan 2025 09:51	SY/MD	Ok,M
5	VSTDICC001	VL041840.D	07 Jan 2025 10:21	SY/MD	Ok,M
6	VSTDICC0.5	VL041841.D	07 Jan 2025 10:52	SY/MD	Ok,M
7	VSTDICC0.1	VL041842.D	07 Jan 2025 11:22	SY/MD	Ok,M
8	VSTDICC0.03	VL041843.D	07 Jan 2025 11:52	SY/MD	Ok,M
9	VSTDICC015	VL041844.D	07 Jan 2025 12:25	SY/MD	Ok,M
10	VSTDICV010	VL041845.D	07 Jan 2025 14:10	SY/MD	Ok,M
11	VL0107ABL01	VL041846.D	07 Jan 2025 15:55	SY/MD	Ok
12	Q1031-02	VL041847.D	07 Jan 2025 16:59	SY/MD	Ok,M
13	Q1031-02DUP	VL041848.D	07 Jan 2025 17:33	SY/MD	Ok,M
14	Q1031-01	VL041849.D	07 Jan 2025 18:03	SY/MD	Not Ok
15	Q1031-01DL	VL041850.D	07 Jan 2025 18:34	SY/MD	Not Ok
16	Q1031-01	VL041851.D	07 Jan 2025 19:05	SY/MD	Ok,M
17	QC010225 CAN 10443	VL041852.D	07 Jan 2025 19:35	SY/MD	Not Ok
18	QC010225 CAN 10443	VL041853.D	07 Jan 2025 20:06	SY/MD	Ok
19	VL0107ABS01	VL041854.D	07 Jan 2025 20:36	SY/MD	Ok,M
20	VL0107ABS02	VL041855.D	07 Jan 2025 21:30	SY/MD	Not Ok
21	VIBLK	VL041856.D	07 Jan 2025 22:01	SY/MD	Ok

M : Manual Integration

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL010725

Review By	Semsettin Yesilyurt	Review On	1/9/2025 1:01:35 PM		
Supervise By	Mahesh Dadoda	Supervise On	1/9/2025 1:12:38 PM		
SubDirectory	VL010725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2570
Initial Calibration Stds	AP2566,AP2567,AP2568
CCC	AP2566
Internal Standard/PEM	AP2570
ICV/I.BLK	AP2564
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VL041836.D	07 Jan 2025 08:06		SY/MD	Ok
2	VSTDICC0.5	VSTDICC0.5	VL041837.D	07 Jan 2025 08:48	Not used	SY/MD	Not Ok
3	VSTDICCC010	VSTDICCC010	VL041838.D	07 Jan 2025 09:18		SY/MD	Ok,M
4	VSTDICC002	VSTDICC002	VL041839.D	07 Jan 2025 09:51	Method failed for Comp. #13,80	SY/MD	Ok,M
5	VSTDICC001	VSTDICC001	VL041840.D	07 Jan 2025 10:21		SY/MD	Ok,M
6	VSTDICC0.5	VSTDICC0.5	VL041841.D	07 Jan 2025 10:52		SY/MD	Ok,M
7	VSTDICC0.1	VSTDICC0.1	VL041842.D	07 Jan 2025 11:22		SY/MD	Ok,M
8	VSTDICC0.03	VSTDICC0.03	VL041843.D	07 Jan 2025 11:52		SY/MD	Ok,M
9	VSTDICC015	VSTDICC015	VL041844.D	07 Jan 2025 12:25		SY/MD	Ok,M
10	VSTDICV010	ICVVL010725	VL041845.D	07 Jan 2025 14:10	ICV failed for Comp. #13,51,61	SY/MD	Ok,M
11	VL0107ABL01	VL0107ABL01	VL041846.D	07 Jan 2025 15:55		SY/MD	Ok
12	Q1031-02	IA1	VL041847.D	07 Jan 2025 16:59		SY/MD	Ok,M
13	Q1031-02DUP	IA1DUP	VL041848.D	07 Jan 2025 17:33		SY/MD	Ok,M
14	Q1031-01	SV1	VL041849.D	07 Jan 2025 18:03	Run @ Lower Dilution	SY/MD	Not Ok
15	Q1031-01DL	SV1DL	VL041850.D	07 Jan 2025 18:34	Not Required	SY/MD	Not Ok
16	Q1031-01	SV1	VL041851.D	07 Jan 2025 19:05		SY/MD	Ok,M
17	QC010225 CAN 10443	QC010225 CAN 10443	VL041852.D	07 Jan 2025 19:35	Contaminated	SY/MD	Not Ok
18	QC010225 CAN 10443	QC010225 CAN 10443	VL041853.D	07 Jan 2025 20:06		SY/MD	Ok

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Instrument ID: MSVOA_L

Daily Analysis Runlog For Sequence/QCBatch ID # VL010725

Review By	Semsettin Yesilyurt	Review On	1/9/2025 1:01:35 PM		
Supervise By	Mahesh Dadoda	Supervise On	1/9/2025 1:12:38 PM		
SubDirectory	VL010725	HP Acquire Method	TO15AIR.M	HP Processing Method	VL010725AIR.M

STD. NAME	STD REF.#
Tune/Reschk	AP2570
Initial Calibration Stds	AP2566,AP2567,AP2568
CCC	AP2566
Internal Standard/PEM	AP2570
ICV/I.BLK	AP2564
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	VL0107ABS01	VL0107ABS01	VL041854.D	07 Jan 2025 20:36		SY/MD	Ok,M
20	VL0107ABS02	VL0107ABS02	VL041855.D	07 Jan 2025 21:30	Not Required	SY/MD	Not Ok
21	VIBLK	VIBLK	VL041856.D	07 Jan 2025 22:01		SY/MD	Ok

M : Manual Integration