

DATA PACKAGE VOLATILE ORGANICS

PROJECT NAME : CON EDISON - 11TH AVE-WEST 50TH ST SITE

PARSONS ENGINEERING OF NEW YORK, INC.

301 Plainfield Road

Suite 350

Syracuse, NY - 13212

Phone No: 315-451-9560

ORDER ID : Q1739

ATTENTION : Stephen Liberatore



Laboratory Certification ID # 20012



1) TCLP VOLATILES DATA	2
2) Signature Page	4
3) Case Narrative	5
4) Qualifier Page	7
5) Conformance/Non Conformance	8
6) QA Checklist	10
7) Chronicle	11
8) Hit Summary	12
9) QC Data Summary For TCLP VOA	13
9.1) Deuterated Monitoring Compound Summary	14
9.2) LCS/LCSD Summary	16
9.3) Method Blank Summary	18
9.4) GS/MS Tune Summary	19
9.5) Internal Standard Area and RT Summary	21
10) Sample Data	23
10.1) WC-LIQUID-20250404	24
11) Calibration Data Summary	32
11.1) Initial Calibration Data	33
11.1.1) VX040225	33
11.2) Continued Calibration Data	402
11.2.1) VX045664.D	402
12) QC Sample Data	461
12.1) Tune Raw Data	462
12.2) Method Blank Data	464
12.3) LCS Data	471
12.4) LCSD Data	524
13) Manual Integration	577
14) Analytical Runlogs	580
15) Extraction Logs	588
15.1) PB167487.pdf	588
15.2) PB167487IC.pdf	591
16) Standard Prep Logs	592
17) Shipping Document	692
17.1) Chain Of Custody	693
17.2) Lab Certificate	694

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17

Cover Page

Order ID : Q1739

Project ID : Con Edison - 11th Ave-West 50th St Site

Client : PARSONS Engineering of New York, Inc.

Lab Sample Number

Q1739-01
Q1739-02

Client Sample Number

WC-LIQUID-20250404
WC-LIQUID-20250404

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 : _____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:30 pm, Apr 17, 2025

Date: 4/11/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

PARSONS Engineering of New York, Inc.

Project Name: Con Edison - 11th Ave-West 50th St Site

Project # N/A

Chemtech Project # Q1739

Test Name: TCLP VOA

A. Number of Samples and Date of Receipt:

2 Water samples were received on 04/04/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Flash Point, Mercury, Metals ICP-TAL, METALS-TAL, PCB, pH, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP METALS, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TPH GC and VOC-TCLVOA-10. This data package contains results for TCLP VOA.

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI The analysis of TCLP VOA was based on method 8260D and TCLP extraction method was 1311.

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 Spike Duplicate 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.

Samples WC-LIQUID-20250404 was diluted due to sample having oil layer in vial.

E. Additional Comments:

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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 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.

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 2:30 pm, Apr 17, 2025

Signature _____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: Q1739

MATRIX: TCLP

METHOD: 8260D/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements. The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			✓
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			✓
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range.			✓
9.	Internal Standard Area/Retention Time Shift Meet Criteria Comments:			✓
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

ADDITIONAL COMMENTS:

Sample WC-LIQUID-20250404 was diluted due to sample having oil layer in vial.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

NA NO YES

Trip Blank was not provided with this set of samples.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is >20% for the Initial Calibration curve for SW-846 analysis.

REVIEWED

QA REVIEW

By Sohil Jodhani, QA/QC Director at 12:58 pm, Apr 17, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1739

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: SOHIL JODHANI

Date: 04/11/2025

LAB CHRONICLE

OrderID:	Q1739	OrderDate:	4/4/2025 2:08:31 PM
Client:	PARSONS Engineering of New York, Inc.	Project:	Con Edison - 11th Ave-West 50th St Site
Contact:	Stephen Liberatore	Location:	L31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1739-02	WC-LIQUID-2025040 4	TCLP	TCLP VOA	8260D	04/04/25		04/09/25	04/04/25

Hit Summary Sheet
SW-846

SDG No.: Q1739

Client: PARSONS Engineering of New York, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:



QC SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Surrogate Summary

SDG No.: Q1739

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q1739-02	WC-LIQUID-20250404	1,2-Dichloroethane-d4	50	53.5	107	74	125
		Dibromofluoromethane	50	50.8	102	75	124
		Toluene-d8	50	50.2	100	86	113
		4-Bromofluorobenzene	50	52.9	106	77	121

Surrogate Summary

SDG No.: Q1739

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
VX0409WBL01	VX0409WBL01	1,2-Dichloroethane-d4	50	53.5	107	74	125
		Dibromofluoromethane	50	51.3	103	75	124
		Toluene-d8	50	50.5	101	86	113
		4-Bromofluorobenzene	50	49.9	100	77	121
VX0409WBS01	VX0409WBS01	1,2-Dichloroethane-d4	50	53.5	107	74	125
		Dibromofluoromethane	50	54.5	109	75	124
		Toluene-d8	50	53.1	106	86	113
		4-Bromofluorobenzene	50	52.6	105	77	121
VX0409WBSD0	VX0409WBSD01	1,2-Dichloroethane-d4	50	54.1	108	74	125
		Dibromofluoromethane	50	53.8	108	75	124
		Toluene-d8	50	53.1	106	86	113
		4-Bromofluorobenzene	50	54.3	109	77	121

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1739

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VX045667.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0409WBS01	Vinyl chloride	20	18.5	ug/L	93			65	117	
	1,1-Dichloroethene	20	18.4	ug/L	92			74	110	
	2-Butanone	100	94.6	ug/L	95			65	122	
	Carbon Tetrachloride	20	20.1	ug/L	101			77	113	
	Chloroform	20	19.3	ug/L	97			79	113	
	Benzene	20	19.3	ug/L	97			82	109	
	1,2-Dichloroethane	20	20.4	ug/L	102			80	115	
	Trichloroethene	20	19.2	ug/L	96			77	113	
	Tetrachloroethene	20	20.9	ug/L	104			67	123	
	Chlorobenzene	20	20.3	ug/L	102			82	109	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1739

Client: PARSONS Engineering of New York, Inc.

Analytical Method: SW8260-Low

Datafile : VX045668.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0409WBSD01	Vinyl chloride	20	18.9	ug/L	95	2		65	117	20
	1,1-Dichloroethene	20	19.2	ug/L	96	4		74	110	20
	2-Butanone	100	100	ug/L	100	5		65	122	20
	Carbon Tetrachloride	20	21.2	ug/L	106	5		77	113	20
	Chloroform	20	20.8	ug/L	104	7		79	113	20
	Benzene	20	20.4	ug/L	102	5		82	109	20
	1,2-Dichloroethane	20	21.5	ug/L	108	6		80	115	20
	Trichloroethene	20	20.4	ug/L	102	6		77	113	20
	Tetrachloroethene	20	22.0	ug/L	110	6		67	123	20
	Chlorobenzene	20	20.9	ug/L	104	2		82	109	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0409WBL01

Lab Name: CHEMTECH

Contract: PARS02

Lab Code: CHEM Case No.: Q1739

SAS No.: Q1739 SDG NO.: Q1739

Lab File ID: VX045666.D

Lab Sample ID: VX0409WBL01

Date Analyzed: 04/09/2025

Time Analyzed: 11:26

GC Column: DB-624UI ID: 0.18 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VX0409WBS01	VX0409WBS01	VX045667.D	04/09/2025
VX0409WBSD01	VX0409WBSD01	VX045668.D	04/09/2025
WC-LIQUID-20250404	Q1739-02	VX045670.D	04/09/2025

COMMENTS: _____



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q1739 SAS No.: Q1739 SDG NO.: Q1739
Lab File ID: VX045524.D BFB Injection Date: 04/01/2025
Instrument ID: MSVOA_X BFB Injection Time: 16:15
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.6
75	30.0 - 60.0% of mass 95	58.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.8 (1.2) 1
174	50.0 - 100.0% of mass 95	66.8
175	5.0 - 9.0% of mass 174	5.2 (7.8) 1
176	95.0 - 101.0% of mass 174	65.3 (97.8) 1
177	5.0 - 9.0% of mass 176	4.4 (6.8) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC001	VSTDIC001	VX045525.D	04/01/2025	17:06
VSTDIC005	VSTDIC005	VX045526.D	04/01/2025	17:29
VSTDIC020	VSTDIC020	VX045527.D	04/01/2025	17:52
VSTDIC050	VSTDIC050	VX045528.D	04/01/2025	18:15
VSTDIC100	VSTDIC100	VX045529.D	04/01/2025	18:38
VSTDIC150	VSTDIC150	VX045530.D	04/01/2025	19:02



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

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q1739 SAS No.: Q1739 SDG NO.: Q1739
Lab File ID: VX045663.D BFB Injection Date: 04/09/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:38
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.2
75	30.0 - 60.0% of mass 95	59.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	67.4
175	5.0 - 9.0% of mass 174	5.1 (7.5) 1
176	95.0 - 101.0% of mass 174	66.1 (98) 1
177	5.0 - 9.0% of mass 176	4.4 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX045664.D	04/09/2025	10:35
VX0409WBL01	VX0409WBL01	VX045666.D	04/09/2025	11:26
VX0409WBS01	VX0409WBS01	VX045667.D	04/09/2025	11:49
VX0409WBSD01	VX0409WBSD01	VX045668.D	04/09/2025	12:14
WC-LIQUID-20250404	Q1739-02	VX045670.D	04/09/2025	13:01

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q1739 SAS No.: Q1739 SDG NO.: Q1739
Lab File ID: VX045664.D Date Analyzed: 04/09/2025
Instrument ID: MSVOA_X Time Analyzed: 10:35
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	98594	5.54	170453	6.75	147839	10.05
UPPER LIMIT	197188	6.044	340906	7.251	295678	10.549
LOWER LIMIT	49297	5.044	85226.5	6.251	73919.5	9.549
EPA SAMPLE NO.						
WC-LIQUID-20250404	64975	5.54	128842	6.76	121333	10.05
VX0409WBL01	69921	5.54	138334	6.76	127856	10.05
VX0409WBS01	94074	5.54	163361	6.76	141398	10.05
VX0409WBSD01	83922	5.54	147335	6.76	129399	10.05

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: PARS02
Lab Code: CHEM Case No.: Q1739 SAS No.: Q1739 SDG NO.: Q1739
Lab File ID: VX045664.D Date Analyzed: 04/09/2025
Instrument ID: MSVOA_X Time Analyzed: 10:35
GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	71972	12.018				
UPPER LIMIT	143944	12.518				
LOWER LIMIT	35986	11.518				
EPA SAMPLE NO.						
WC-LIQUID-20250404	52147	12.02				
VX0409WBL01	50474	12.02				
VX0409WBS01	64175	12.02				
VX0409WBSD01	60456	12.02				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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



SAMPLE DATA

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.			Date Collected:	04/04/25	
Project:	Con Edison - 11th Ave-West 50th St Site			Date Received:	04/04/25	
Client Sample ID:	WC-LIQUID-20250404			SDG No.:	Q1739	
Lab Sample ID:	Q1739-02			Matrix:	TCLP	
Analytical Method:	SW8260			% Solid:	0	
Sample Wt/Vol:	5	Units:	mL	Final Vol:	5000	uL
Soil Aliquot Vol:			uL	Test:	TCLP VOA	
GC Column:	DB-624UI	ID :	0.18	Level :	LOW	
Prep Method :	SW5035					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045670.D	50		04/09/25 13:01	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	13.0	U	13.0	250	ug/L
75-35-4	1,1-Dichloroethene	11.5	U	11.5	250	ug/L
78-93-3	2-Butanone	49.0	U	49.0	1300	ug/L
56-23-5	Carbon Tetrachloride	12.5	U	12.5	250	ug/L
67-66-3	Chloroform	12.5	U	12.5	250	ug/L
71-43-2	Benzene	7.50	U	7.50	250	ug/L
107-06-2	1,2-Dichloroethane	11.0	U	11.0	250	ug/L
79-01-6	Trichloroethene	4.70	U	4.70	250	ug/L
127-18-4	Tetrachloroethene	11.5	U	11.5	250	ug/L
108-90-7	Chlorobenzene	6.00	U	6.00	250	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	50.8		75 - 124	102%	SPK: 50
2037-26-5	Toluene-d8	50.2		86 - 113	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.9		77 - 121	106%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	65000	5.544			
540-36-3	1,4-Difluorobenzene	129000	6.757			
3114-55-4	Chlorobenzene-d5	121000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	52100	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045670.D
Acq On : 09 Apr 2025 13:01
Operator : JC/MD
Sample : Q1739-02 50X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WC-LIQUID-20250404

Quant Time: Apr 10 01:34:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

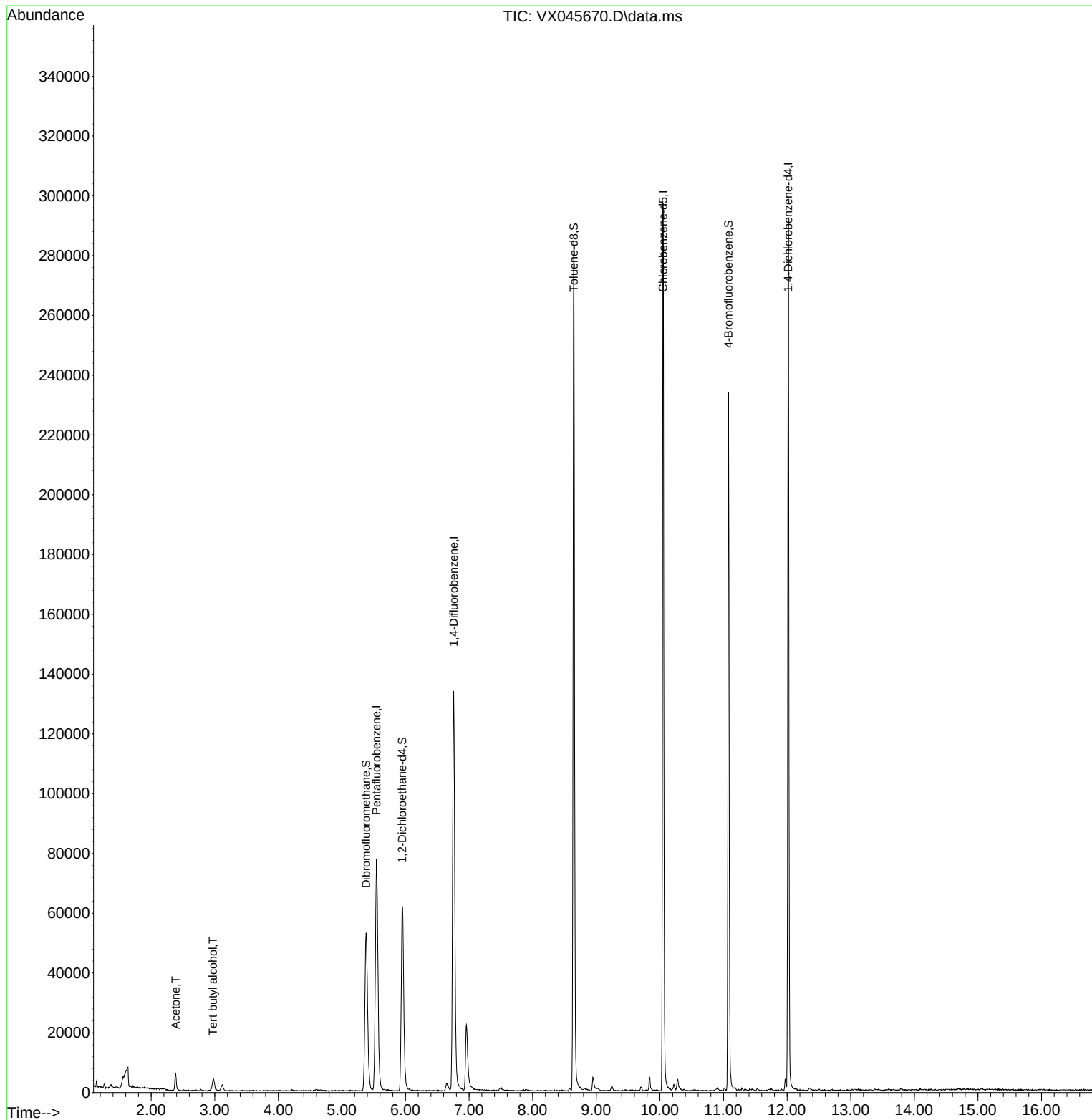
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards							
1) Pentafluorobenzene		5.544	168	64975	50.000	ug/l	0.00
34) 1,4-Difluorobenzene		6.757	114	128842	50.000	ug/l	0.00
63) Chlorobenzene-d5		10.049	117	121333	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4		12.018	152	52147	50.000	ug/l	0.00
System Monitoring Compounds							
33) 1,2-Dichloroethane-d4		5.946	65	63603	53.528	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	107.060%	
35) Dibromofluoromethane		5.379	113	46416	50.776	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.560%	
50) Toluene-d8		8.647	98	160103	50.178	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.360%	
62) 4-Bromofluorobenzene		11.079	95	61526	52.939	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	105.880%	
Target Compounds							Qvalue
11) Tert butyl alcohol		2.971	59	4915	30.779	ug/l #	94
16) Acetone		2.386	43	6086	12.473	ug/l	95

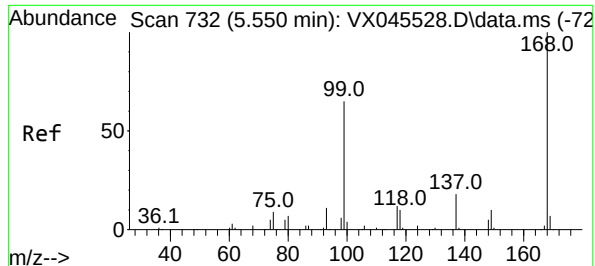
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045670.D
Acq On : 09 Apr 2025 13:01
Operator : JC/MD
Sample : Q1739-02 50X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
WC-LIQUID-20250404

Quant Time: Apr 10 01:34:41 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

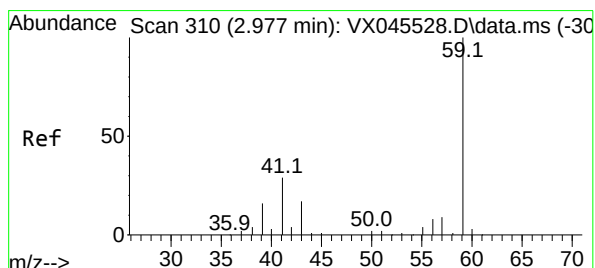
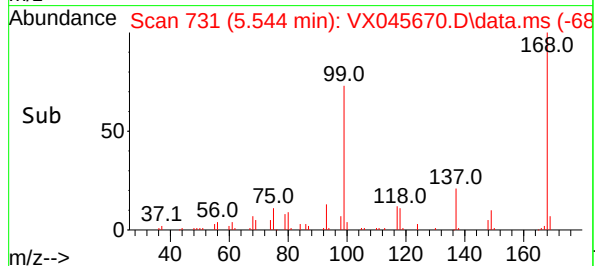
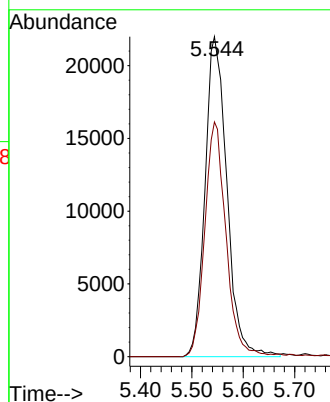
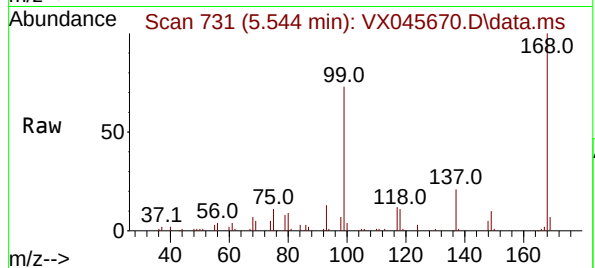




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045670.D
Acq: 09 Apr 2025 13:01

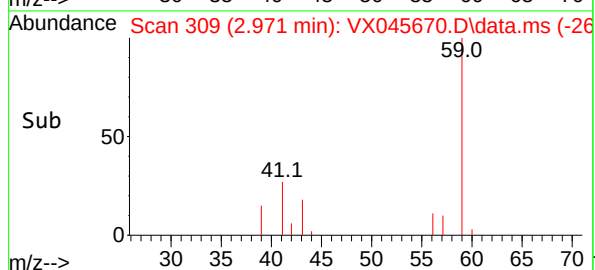
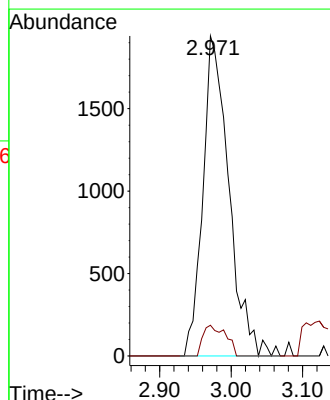
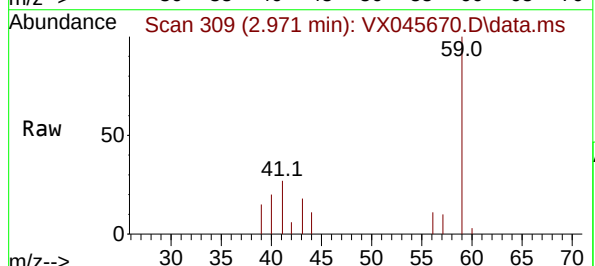
Instrument :
MSVOA_X
ClientSampleId :
WC-LIQUID-20250404

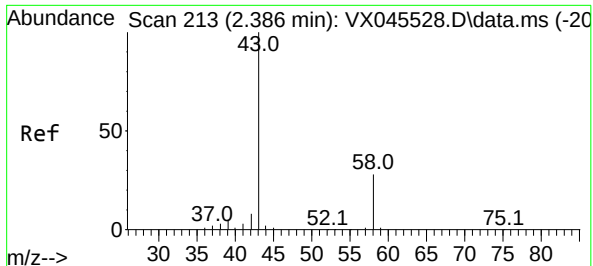
Tgt Ion:168 Resp: 64975
Ion Ratio Lower Upper
168 100
99 73.3 52.3 78.5



#11
Tert butyl alcohol
Concen: 30.779 ug/l
RT: 2.971 min Scan# 309
Delta R.T. -0.006 min
Lab File: VX045670.D
Acq: 09 Apr 2025 13:01

Tgt Ion: 59 Resp: 4915
Ion Ratio Lower Upper
59 100
57 8.3 8.6 12.8#

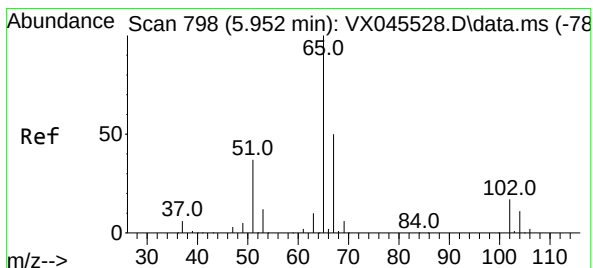
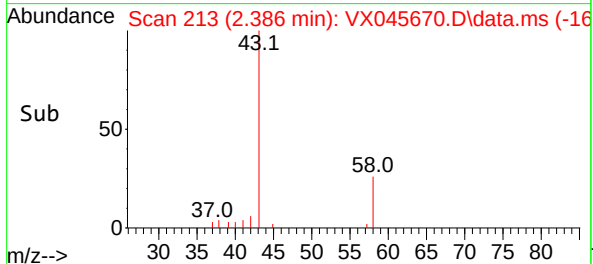
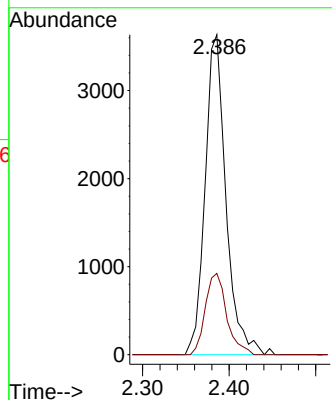
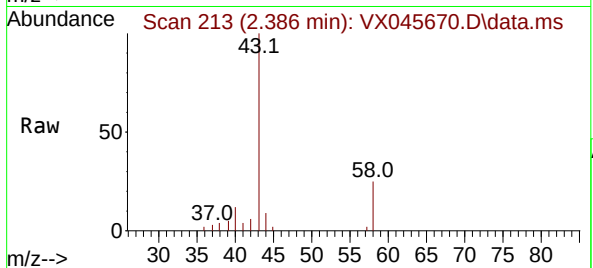




#16
Acetone
Concen: 12.473 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX045670.D
Acq: 09 Apr 2025 13:01

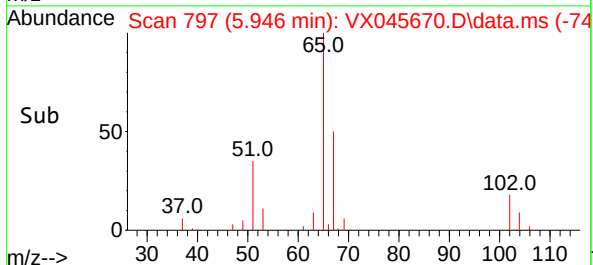
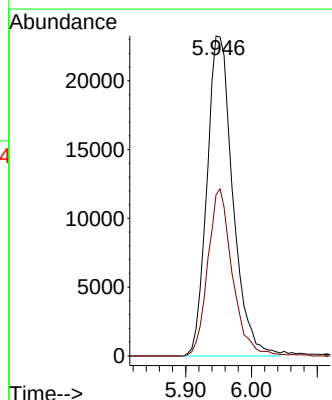
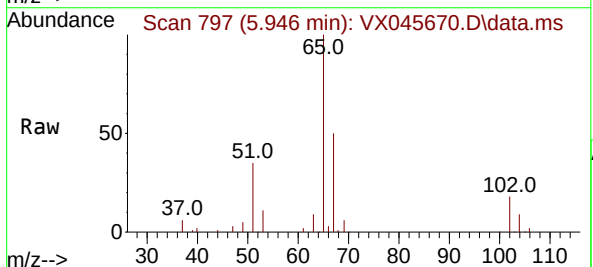
Instrument :
MSVOA_X
ClientSampleId :
WC-LIQUID-20250404

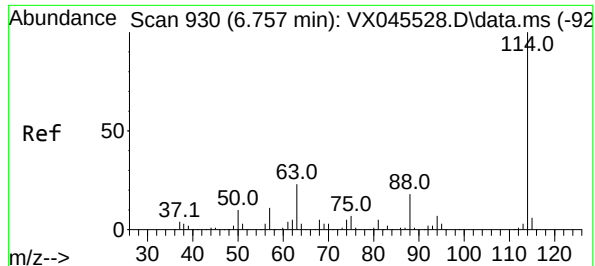
Tgt Ion: 43 Resp: 6086
Ion Ratio Lower Upper
43 100
58 25.4 22.3 33.5



#33
1,2-Dichloroethane-d4
Concen: 53.528 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX045670.D
Acq: 09 Apr 2025 13:01

Tgt Ion: 65 Resp: 63603
Ion Ratio Lower Upper
65 100
67 49.6 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045670.D

Acq: 09 Apr 2025 13:01

Instrument :

MSVOA_X

ClientSampleId :

WC-LIQUID-20250404

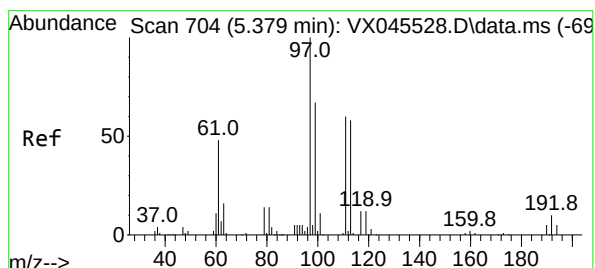
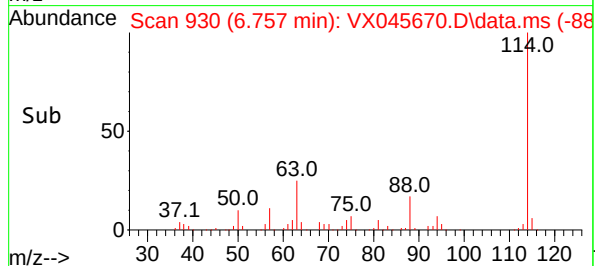
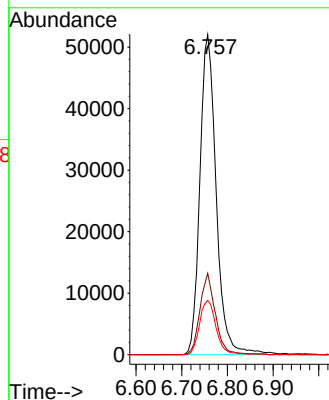
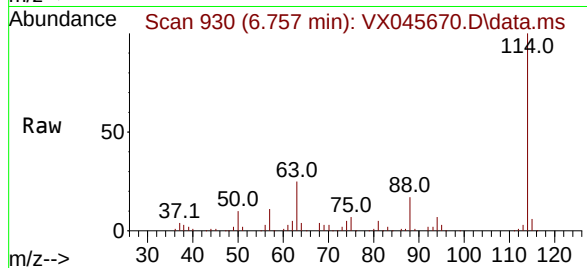
Tgt Ion:114 Resp: 128842

Ion Ratio Lower Upper

114 100

63 25.4 0.0 46.8

88 17.0 0.0 35.4



#35

Dibromofluoromethane

Concen: 50.776 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045670.D

Acq: 09 Apr 2025 13:01

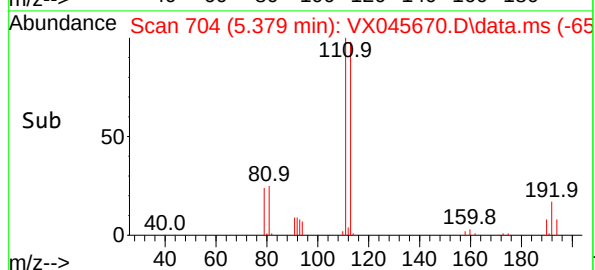
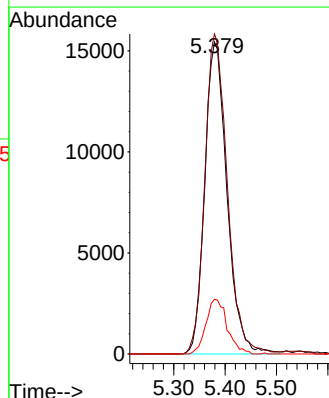
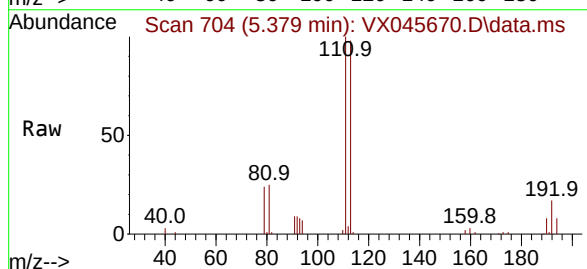
Tgt Ion:113 Resp: 46416

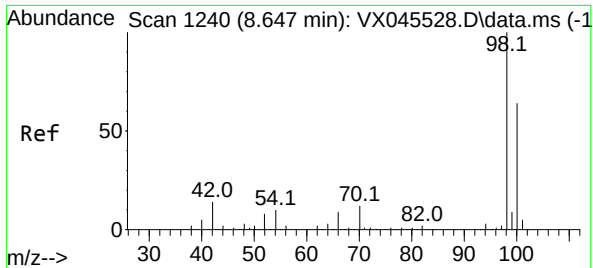
Ion Ratio Lower Upper

113 100

111 103.5 81.8 122.6

192 16.7 13.8 20.6

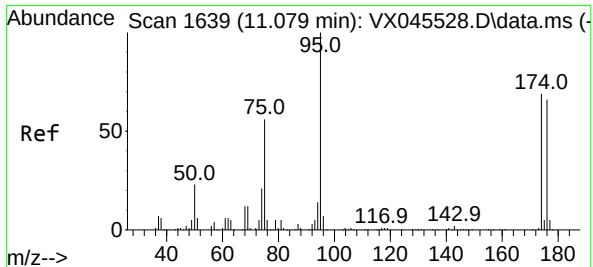
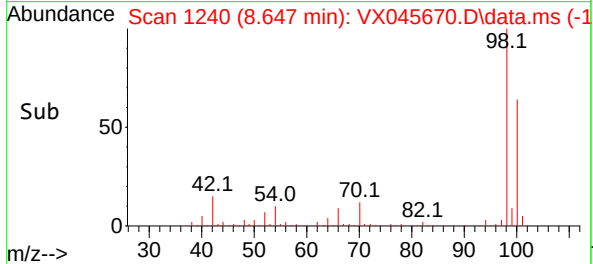
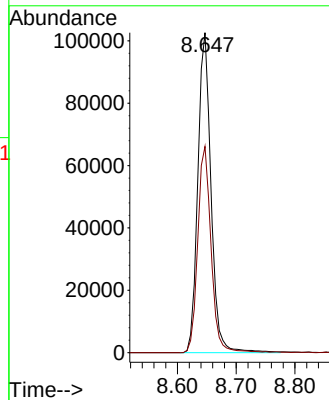
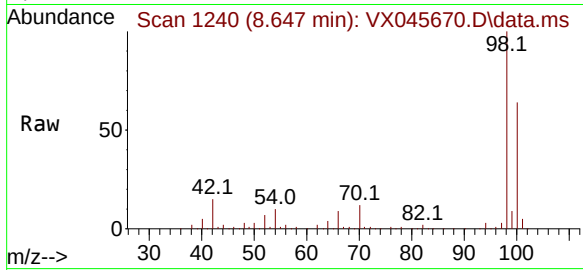




#50
Toluene-d8
Concen: 50.178 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX045670.D
Acq: 09 Apr 2025 13:01

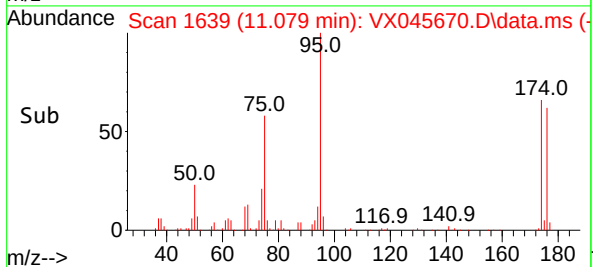
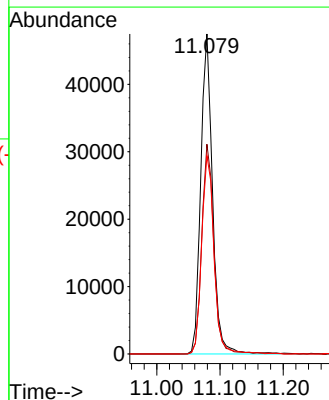
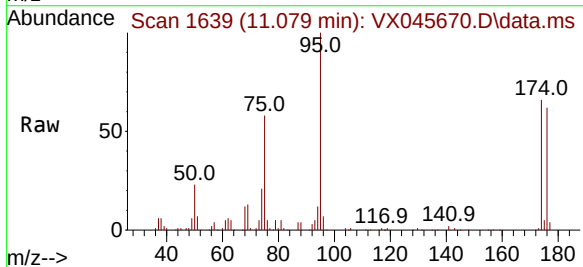
Instrument :
MSVOA_X
ClientSampleId :
WC-LIQUID-20250404

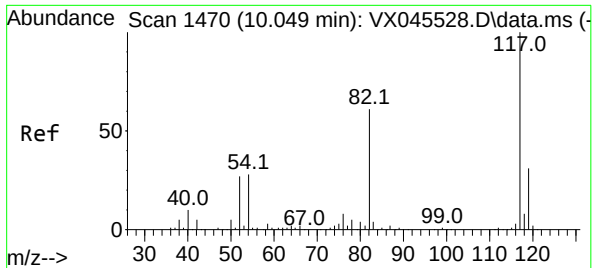
Tgt Ion: 98 Resp: 160103
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.4



#62
4-Bromofluorobenzene
Concen: 52.939 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045670.D
Acq: 09 Apr 2025 13:01

Tgt Ion: 95 Resp: 61526
Ion Ratio Lower Upper
95 100
174 66.8 0.0 135.8
176 65.0 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045670.D

Acq: 09 Apr 2025 13:01

Instrument :

MSVOA_X

ClientSampleId :

WC-LIQUID-20250404

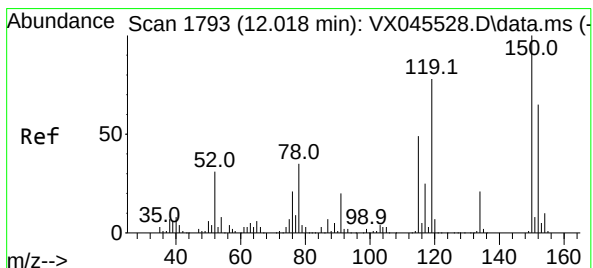
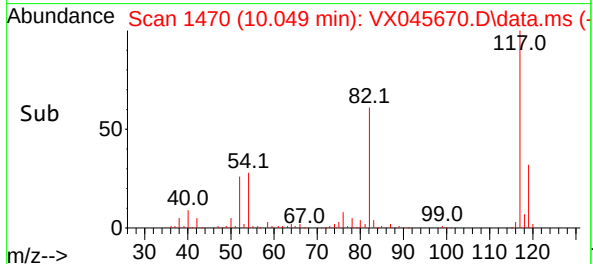
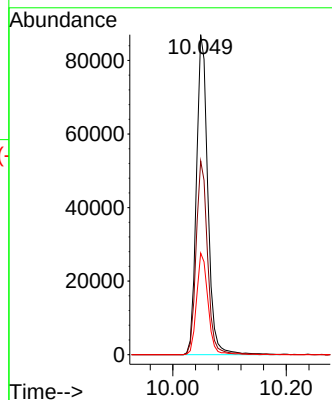
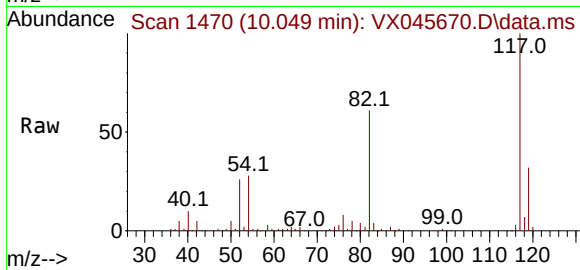
Tgt Ion:117 Resp: 121333

Ion Ratio Lower Upper

117 100

82 60.6 49.2 73.8

119 31.8 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. 0.000 min

Lab File: VX045670.D

Acq: 09 Apr 2025 13:01

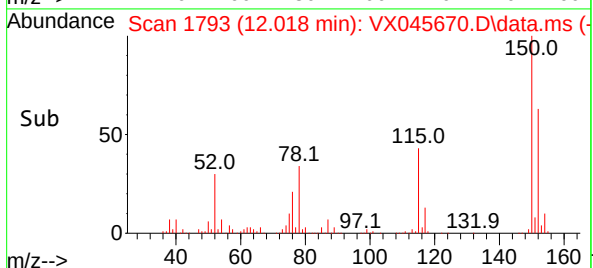
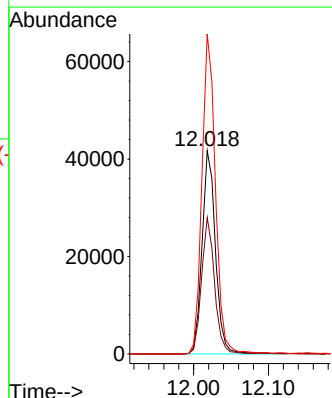
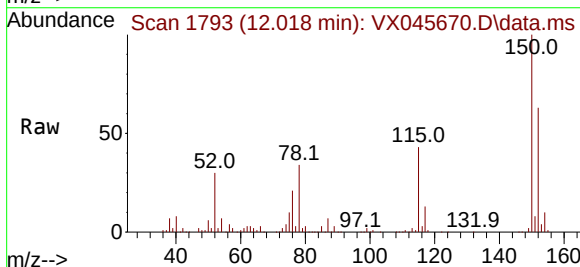
Tgt Ion:152 Resp: 52147

Ion Ratio Lower Upper

152 100

115 64.9 46.9 140.7

150 158.2 0.0 349.4





CALIBRATION SUMMARY

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PARS02
 Lab Code: CHEM Case No.: Q1739 SAS No.: Q1739 SDG No.: Q1739
 Instrument ID: MSVOA_X Calibration Date(s): 04/01/2025 04/01/2025
 Heated Purge: (Y/N) N Calibration Time(s): 17:06 19:02
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF001 = VX045525.D		RRF005 = VX045526.D		RRF020 = VX045527.D			
		RRF050 = VX045528.D		RRF100 = VX045529.D		RRF150 = VX045530.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.4	
1,1-Dichloroethene	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.5	
2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.5	
Carbon Tetrachloride	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.5	
Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.6	
Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.8	
1,2-Dichloroethane	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.7	
Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.7	
Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.5	
Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.8	
1,2-Dichloroethane-d4		0.962	0.900	0.868	0.904	0.937	0.914	3.9	
Dibromofluoromethane		0.372	0.342	0.345	0.353	0.362	0.355	3.5	
Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.5	
4-Bromofluorobenzene		0.413	0.448	0.453	0.481	0.460	0.451	5.5	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X040225W.M
 Title : SW846 8260
 Last Update : Wed Apr 02 03:11:43 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX045525.D 5 =VX045526.D 20 =VX045527.D 50 =VX045528.D 100 =VX045529.D 150 =VX045530.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.615	0.695	0.700	0.820	0.837	0.820	0.748	12.13
3) P	Chloromethane	0.764	0.734	0.777	0.784	0.815	0.734	0.768	4.05
4) C	Vinyl Chloride	0.671	0.662	0.701	0.716	0.738	0.730	0.703	4.43#
5) T	Bromomethane		0.342	0.327	0.330	0.341	0.327	0.333	2.20
6) T	Chloroethane	0.378	0.397	0.390	0.398	0.355	0.319	0.373	8.27
7) T	Trichlorofluor...	1.051	0.999	1.075	1.086	1.089	0.989	1.048	4.22
8) T	Diethyl Ether	0.345	0.340	0.356	0.355	0.358	0.357	0.352	2.11
9) T	1,1,2-Trichlor...	0.575	0.599	0.635	0.621	0.621	0.634	0.614	3.74
10) T	Methyl Iodide		0.705	0.789	0.799	0.788	0.750	0.766	5.08
11) T	Tert butyl alc...		0.111	0.124	0.127	0.128	0.124	0.123	5.44
12) CM	1,1-Dichloroet...	0.563	0.588	0.612	0.604	0.618	0.616	0.600	3.51#
13) T	Acrolein		0.176	0.161	0.167	0.170	0.172	0.169	3.41
14) T	Allyl chloride	1.092	1.068	1.142	1.172	1.199	1.160	1.139	4.36
15) T	Acrylonitrile	0.356	0.382	0.413	0.407	0.394	0.376	0.388	5.38
16) T	Acetone	0.400	0.369	0.387	0.378	0.365	0.355	0.375	4.28
17) T	Carbon Disulfide	1.334	1.327	1.434	1.553	1.604	1.642	1.483	9.24
18) T	Methyl Acetate	0.901	0.863	0.864	0.857	0.855	0.846	0.864	2.22
19) T	Methyl tert-bu...	1.915	1.964	2.169	2.118	2.217	2.216	2.100	6.20
20) T	Methylene Chlo...	0.692	0.695	0.726	0.709	0.705	0.690	0.703	1.96
21) T	trans-1,2-Dich...	0.574	0.594	0.636	0.624	0.621	0.630	0.613	3.94
22) T	Diisopropyl ether	2.003	2.120	2.329	2.293	2.359	2.357	2.243	6.59
23) T	Vinyl Acetate	1.542	1.693	2.005	2.087	2.147	2.156	1.938	13.34
24) P	1,1-Dichloroet...	1.211	1.240	1.318	1.269	1.283	1.292	1.269	3.01
25) T	2-Butanone	0.474	0.537	0.582	0.586	0.571	0.548	0.550	7.55
26) T	2,2-Dichloropr...	0.676	0.757	0.802	0.847	0.903	0.933	0.820	11.67
27) T	cis-1,2-Dichlo...	0.762	0.696	0.760	0.751	0.754	0.760	0.747	3.43
28) T	Bromochloromet...	0.671	0.608	0.617	0.596	0.610	0.576	0.613	5.18
29) T	Tetrahydrofuran	0.339	0.341	0.371	0.371	0.364	0.352	0.356	4.05
30) C	Chloroform	1.244	1.309	1.348	1.315	1.309	1.309	1.306	2.60#
31) T	Cyclohexane		1.044	1.148	1.123	1.145	1.149	1.122	4.00
32) T	1,1,1-Trichlor...	1.028	1.052	1.120	1.109	1.153	1.167	1.105	4.96
33) S	1,2-Dichloroet...		0.962	0.900	0.868	0.904	0.937	0.914	3.94
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.372	0.342	0.345	0.353	0.362	0.355	3.48
36) T	1,1-Dichloropr...	0.477	0.443	0.474	0.485	0.496	0.499	0.479	4.26
37) T	Ethyl Acetate	0.582	0.565	0.609	0.623	0.629	0.614	0.604	4.15
38) T	Carbon Tetrach...	0.450	0.497	0.521	0.536	0.545	0.556	0.518	7.49
39) T	Methylcyclohexane	0.519	0.527	0.596	0.622	0.628	0.632	0.587	8.76
40) TM	Benzene	1.414	1.416	1.519	1.481	1.483	1.465	1.463	2.81
41) T	Methacrylonitrile	0.252	0.276	0.338	0.351	0.350	0.343	0.318	13.52
42) TM	1,2-Dichloroet...	0.533	0.585	0.649	0.622	0.620	0.617	0.604	6.72
43) T	Isopropyl Acetate	0.735	0.831	0.952	0.978	1.002	0.991	0.915	11.77
44) TM	Trichloroethene	0.349	0.322	0.356	0.351	0.351	0.356	0.348	3.67
45) C	1,2-Dichloropr...	0.309	0.365	0.388	0.376	0.379	0.374	0.365	7.83#
46) T	Dibromomethane	0.237	0.287	0.297	0.292	0.286	0.282	0.280	7.76
47) T	Bromodichlorom...	0.521	0.519	0.576	0.571	0.587	0.583	0.560	5.56
48) T	Methyl methacr...	0.405	0.416	0.486	0.508	0.518	0.502	0.472	10.44
49) T	1,4-Dioxane	0.007	0.010	0.009	0.009	0.009	0.008	0.009	13.93
50) S	Toluene-d8		1.257	1.233	1.214	1.230	1.257	1.238	1.50
51) T	4-Methyl-2-Pen...	0.499	0.578	0.661	0.663	0.647	0.589	0.606	10.57
52) CM	Toluene	0.817	0.866	0.939	0.910	0.905	0.875	0.885	4.79#
53) T	t-1,3-Dichloro...	0.316	0.400	0.465	0.508	0.555	0.558	0.467	20.27
54) T	cis-1,3-Dichlo...	0.371	0.474	0.546	0.568	0.597	0.600	0.526	16.88
55) T	1,1,2-Trichlor...	0.337	0.346	0.376	0.359	0.358	0.340	0.353	4.11
56) T	Ethyl methacry...	0.407	0.482	0.562	0.600	0.629	0.595	0.546	15.54

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X040225W.M

57)	T	1,3-Dichloropr...	0.555	0.614	0.652	0.633	0.630	0.601	0.614	5.49
58)	T	2-Chloroethyl ...	0.221	0.257	0.286	0.298	0.301	0.293	0.276	11.26
59)	T	2-Hexanone	0.363	0.429	0.488	0.492	0.484	0.439	0.449	11.14
60)	T	Dibromochlorom...	0.313	0.352	0.404	0.412	0.421	0.405	0.385	11.06
61)	T	1,2-Dibromoethane	0.294	0.351	0.380	0.373	0.380	0.364	0.357	9.12
62)	S	4-Bromofluorob...		0.413	0.448	0.453	0.481	0.460	0.451	5.45
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.346	0.373	0.371	0.347	0.333	0.347	0.353	4.47
65)	PM	Chlorobenzene	0.951	1.054	1.123	1.084	1.086	1.112	1.068	5.83
66)	T	1,1,1,2-Tetrac...	0.368	0.344	0.372	0.373	0.379	0.390	0.371	4.18
67)	C	Ethyl Benzene	1.608	1.819	2.002	2.007	1.993	2.053	1.914	8.89#
68)	T	m/p-Xylenes	0.594	0.669	0.732	0.728	0.723	0.729	0.696	7.92
69)	T	o-Xylene	0.562	0.676	0.725	0.719	0.716	0.714	0.686	9.17
70)	T	Styrene	0.897	1.043	1.202	1.216	1.230	1.202	1.132	11.82
71)	P	Bromoform	0.220	0.252	0.272	0.296	0.307	0.315	0.277	13.07
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.581	3.850	4.224	4.181	4.043	4.151	4.005	6.17
74)	T	N-amyl acetate	1.442	1.682	1.960	2.058	2.132	2.221	1.916	15.51
75)	P	1,1,2,2-Tetrac...	1.457	1.428	1.461	1.384	1.354	1.358	1.407	3.43
76)	T	1,2,3-Trichlor...	1.221	1.257	1.251	1.225	1.192	1.171	1.220	2.71
77)	T	Bromobenzene	0.877	0.927	0.953	0.938	0.925	0.932	0.925	2.77
78)	T	n-propylbenzene	3.734	4.346	5.012	4.896	4.819	4.872	4.613	10.59
79)	T	2-Chlorotoluene	2.894	2.873	3.130	2.966	2.915	2.918	2.949	3.19
80)	T	1,3,5-Trimethy...	2.931	3.119	3.571	3.511	3.367	3.371	3.312	7.35
81)	T	trans-1,4-Dich...		0.274	0.323	0.371	0.401	0.428	0.359	17.16
82)	T	4-Chlorotoluene	2.961	3.156	3.470	3.449	3.350	3.343	3.288	5.93
83)	T	tert-Butylbenzene	2.894	3.124	3.437	3.427	3.387	3.405	3.279	6.78
84)	T	1,2,4-Trimethy...	2.906	3.129	3.529	3.523	3.438	3.420	3.324	7.57
85)	T	sec-Butylbenzene	3.195	3.828	4.316	4.300	4.232	4.292	4.027	11.12
86)	T	p-Isopropyltol...	2.734	3.157	3.515	3.524	3.506	3.484	3.320	9.63
87)	T	1,3-Dichlorobe...	1.658	1.605	1.726	1.699	1.714	1.706	1.684	2.70
88)	T	1,4-Dichlorobe...	1.671	1.724	1.768	1.703	1.674	1.706	1.708	2.09
89)	T	n-Butylbenzene	2.117	2.486	2.974	3.160	3.256	3.283	2.879	16.50
90)	T	Hexachloroethane	0.493	0.493	0.556	0.597	0.623	0.661	0.571	12.14
91)	T	1,2-Dichlorobe...	1.644	1.645	1.750	1.678	1.665	1.667	1.675	2.34
92)	T	1,2-Dibromo-3-...	0.196	0.260	0.312	0.316	0.333	0.349	0.294	19.37
93)	T	1,2,4-Trichlor...	0.727	0.844	0.948	0.947	1.045	1.083	0.932	14.07
94)	T	Hexachlorobuta...	0.379	0.389	0.401	0.404	0.415	0.422	0.402	4.03
95)	T	Naphthalene	2.544	3.070	3.630	3.722	3.867	3.982	3.469	15.93
96)	T	1,2,3-Trichlor...	0.782	0.916	0.999	1.000	1.063	1.097	0.976	11.63

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045525.D
 Acq On : 01 Apr 2025 17:06
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Quant Time: Apr 02 02:50:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	96737	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	175266	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	153312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61114	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	0.000	65	0d	0.000	ug/l	
Spiked Amount	50.000	Range	74 - 125	Recovery	=	0.000%#
35) Dibromofluoromethane	0.000	113	0d	0.000	ug/l	
Spiked Amount	50.000	Range	75 - 124	Recovery	=	0.000%#
50) Toluene-d8	0.000	98	0d	0.000	ug/l	
Spiked Amount	50.000	Range	86 - 113	Recovery	=	0.000%#
62) 4-Bromofluorobenzene	0.000	95	0d	0.000	ug/l	
Spiked Amount	50.000	Range	77 - 121	Recovery	=	0.000%#

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.167	85	1189	0.822	ug/l	94
3) Chloromethane	1.307	50	1479	0.995	ug/l #	86
4) Vinyl Chloride	1.374	62	1299	0.955	ug/l	98
6) Chloroethane	1.673	64	732	1.014	ug/l #	67
7) Trichlorofluoromethane	1.880	101	2034	1.003	ug/l	93
8) Diethyl Ether	2.130	74	668	0.981	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.325	101	1113	0.936	ug/l	94
12) 1,1-Dichloroethene	2.313	96	1090	0.939	ug/l	95
14) Allyl chloride	2.660	41	2113	0.959	ug/l	93
15) Acrylonitrile	3.075	53	3446	4.592	ug/l	95
16) Acetone	2.380	43	3867	5.323	ug/l	98
17) Carbon Disulfide	2.508	76	2580	0.899	ug/l #	95
18) Methyl Acetate	2.703	43	1744	1.043	ug/l	91
19) Methyl tert-butyl Ether	3.117	73	3705	0.912	ug/l	92
20) Methylene Chloride	2.782	84	1338	0.984	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	1111	0.936	ug/l #	93
22) Diisopropyl ether	3.758	45	3875	0.893	ug/l #	59
23) Vinyl Acetate	3.727	43	14921	3.979	ug/l	95
24) 1,1-Dichloroethane	3.611	63	2343	0.954	ug/l #	90
25) 2-Butanone	4.581	43	4590	4.317	ug/l	92
26) 2,2-Dichloropropane	4.471	77	1307	0.824	ug/l	85
27) cis-1,2-Dichloroethene	4.495	96	1475	1.020	ug/l	80
28) Bromochloromethane	4.891	49	1298	1.094	ug/l #	97
29) Tetrahydrofuran	5.032	42	3276	4.752	ug/l	97
30) Chloroform	5.093	83	2406	0.953	ug/l	84
32) 1,1,1-Trichloroethane	5.385	97	1989	0.931	ug/l #	53
36) 1,1-Dichloropropene	5.696	75	1671	0.995	ug/l #	89
37) Ethyl Acetate	4.751	43	2040	0.964	ug/l #	76
38) Carbon Tetrachloride	5.672	117	1578	0.870	ug/l #	91
39) Methylcyclohexane	7.379	83	1818	0.883	ug/l #	89
40) Benzene	6.038	78	4957	0.967	ug/l	97
41) Methacrylonitrile	4.952	41	883m	0.784	ug/l	
42) 1,2-Dichloroethane	6.092	62	1867	0.882	ug/l	86
43) Isopropyl Acetate	6.361	43	2578	0.804	ug/l #	86
44) Trichloroethene	7.123	130	1224	1.004	ug/l	87
45) 1,2-Dichloropropane	7.434	63	1082	0.846	ug/l	90

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045525.D
 Acq On : 01 Apr 2025 17:06
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:50:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	831	0.846	ug/l	90
47) Bromodichloromethane	7.824	83	1827	0.931	ug/l #	77
48) Methyl methacrylate	7.720	41	1419	0.857	ug/l	92
49) 1,4-Dioxane	7.671	88	458m	15.288	ug/l	
51) 4-Methyl-2-Pentanone	8.574	43	8746	4.114	ug/l	100
52) Toluene	8.720	92	2863	0.923	ug/l	96
53) t-1,3-Dichloropropene	8.988	75	1109	2.850	ug/l	93
54) cis-1,3-Dichloropropene	8.379	75	1300	0.705	ug/l	90
55) 1,1,2-Trichloroethane	9.159	97	1183	0.957	ug/l #	76
56) Ethyl methacrylate	9.129	69	1425m	0.745	ug/l	
57) 1,3-Dichloropropane	9.311	76	1946	0.904	ug/l	91
58) 2-Chloroethyl Vinyl ether	8.245	63	3880	4.008	ug/l	93
59) 2-Hexanone	9.439	43	6360	4.040	ug/l	85
60) Dibromochloromethane	9.519	129	1097	0.814	ug/l	99
61) 1,2-Dibromoethane	9.610	107	1032	0.825	ug/l	96
64) Tetrachloroethene	9.269	164	1062	0.981	ug/l	92
65) Chlorobenzene	10.080	112	2916	0.890	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.159	131	1128	0.992	ug/l #	64
67) Ethyl Benzene	10.195	91	4930	0.840	ug/l	90
68) m/p-Xylenes	10.305	106	3645	1.708	ug/l	97
69) o-Xylene	10.640	106	1724	0.820	ug/l	83
70) Styrene	10.659	104	2750	0.793	ug/l	94
71) Bromoform	10.805	173	675	0.795	ug/l #	94
73) Isopropylbenzene	10.964	105	4377	0.894	ug/l	95
74) N-amyl acetate	10.854	43	1762	0.752	ug/l #	93
75) 1,1,2,2-Tetrachloroethane	11.214	83	1781	1.036	ug/l	94
76) 1,2,3-Trichloropropane	11.244	75	1493m	1.002	ug/l	
77) Bromobenzene	11.201	156	1072	0.948	ug/l	95
78) n-propylbenzene	11.305	91	4564	0.809	ug/l	97
79) 2-Chlorotoluene	11.366	91	3537	0.981	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	3582	0.885	ug/l	100
82) 4-Chlorotoluene	11.457	91	3619	0.900	ug/l	96
83) tert-Butylbenzene	11.713	119	3537	0.883	ug/l	94
84) 1,2,4-Trimethylbenzene	11.750	105	3552	0.874	ug/l	99
85) sec-Butylbenzene	11.890	105	3905	0.793	ug/l	98
86) p-Isopropyltoluene	12.012	119	3342	0.824	ug/l	94
87) 1,3-Dichlorobenzene	11.969	146	2026	0.984	ug/l	97
88) 1,4-Dichlorobenzene	12.043	146	2042m	0.978	ug/l	
89) n-Butylbenzene	12.335	91	2587	0.735	ug/l	99
90) Hexachloroethane	12.543	117	602	0.863	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	2009	0.981	ug/l	93
92) 1,2-Dibromo-3-Chloropr...	12.945	75	239	0.665	ug/l #	73
93) 1,2,4-Trichlorobenzene	13.591	180	888	0.779	ug/l	94
94) Hexachlorobutadiene	13.725	225	463	0.943	ug/l	90
95) Naphthalene	13.780	128	3109	0.733	ug/l	99
96) 1,2,3-Trichlorobenzene	13.969	180	956	0.801	ug/l	88

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

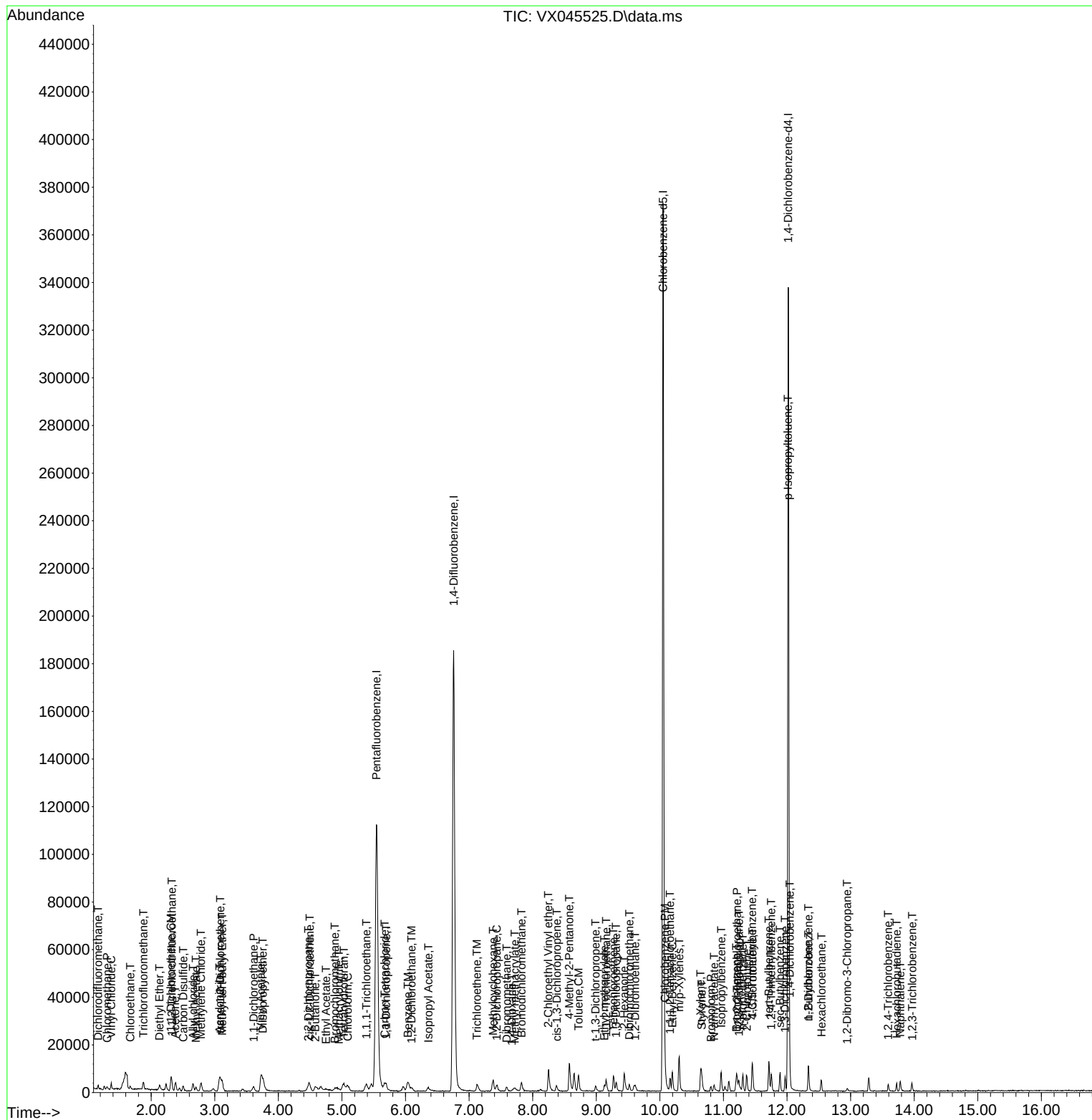
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045525.D
Acq On : 01 Apr 2025 17:06
Operator : JC/MD
Sample : VSTDIC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

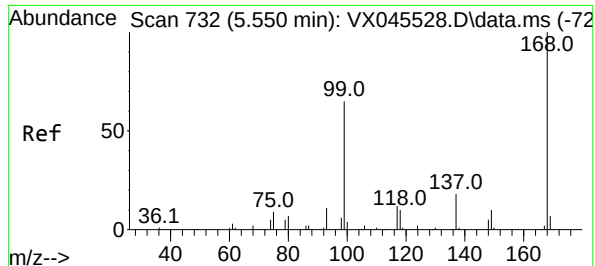
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Quant Time: Apr 02 02:50:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025





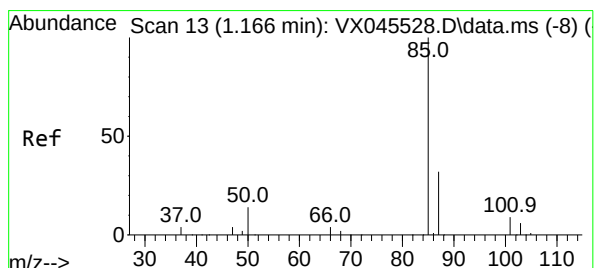
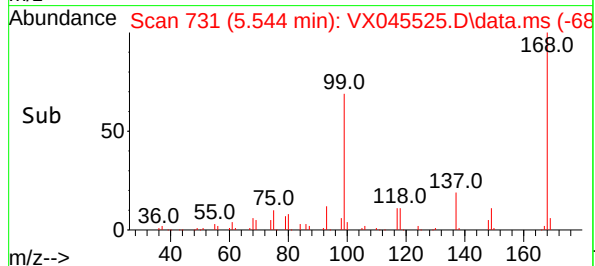
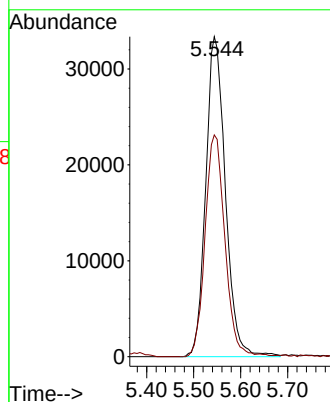
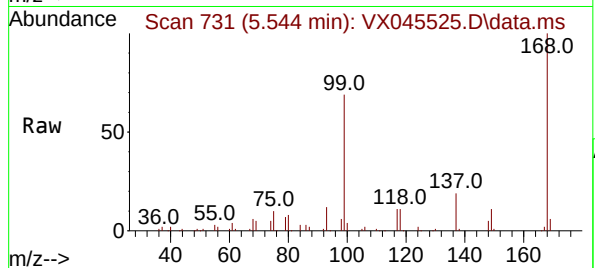
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:168 Resp: 9673
Ion Ratio Lower Upper
168 100
99 69.3 52.3 78.5

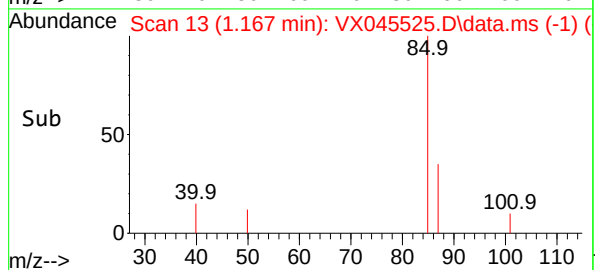
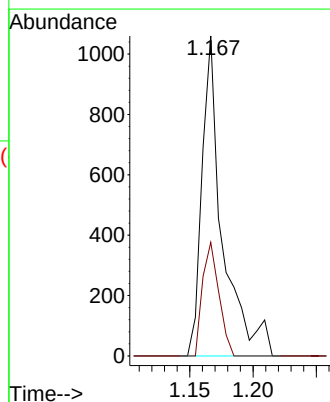
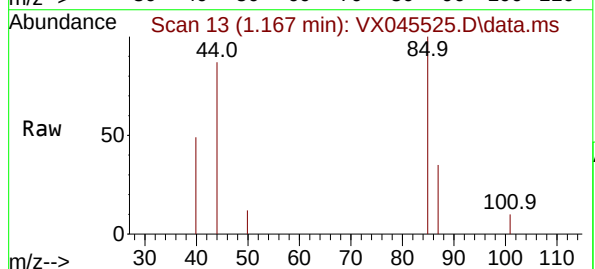
Manual Integrations
APPROVED

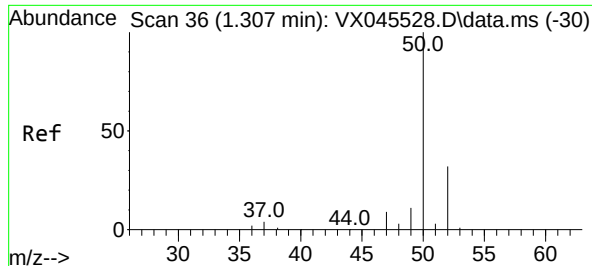
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 0.822 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 85 Resp: 1189
Ion Ratio Lower Upper
85 100
87 35.5 16.1 48.2





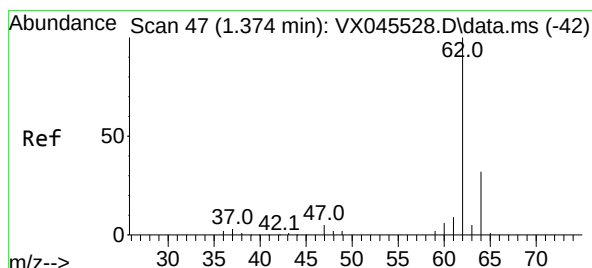
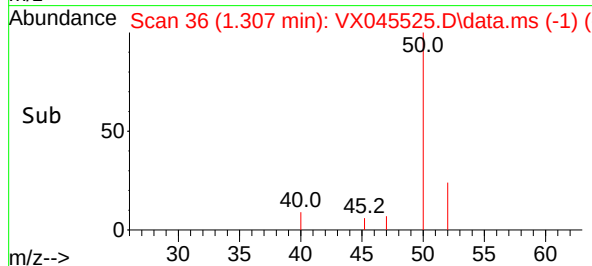
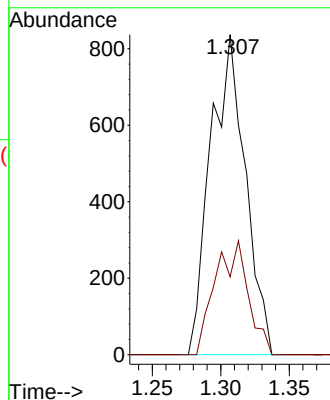
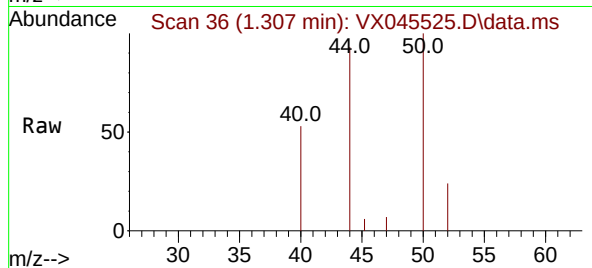
#3
Chloromethane
Concen: 0.995 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 50 Resp: 1479
Ion Ratio Lower Upper
50 100
52 24.4 25.9 38.9

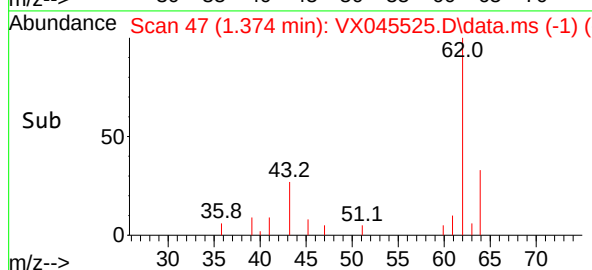
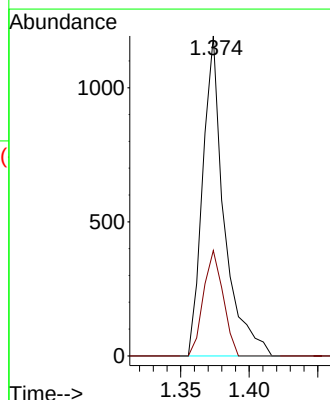
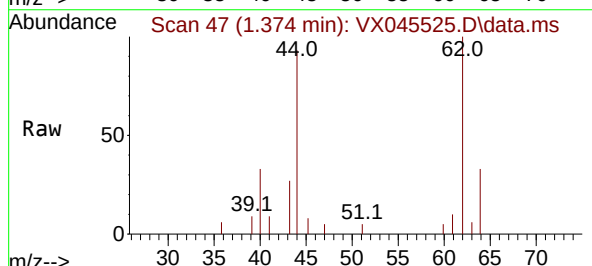
Manual Integrations
APPROVED

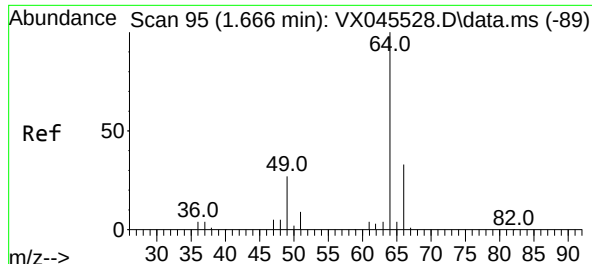
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 0.955 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 62 Resp: 1299
Ion Ratio Lower Upper
62 100
64 32.9 25.5 38.3





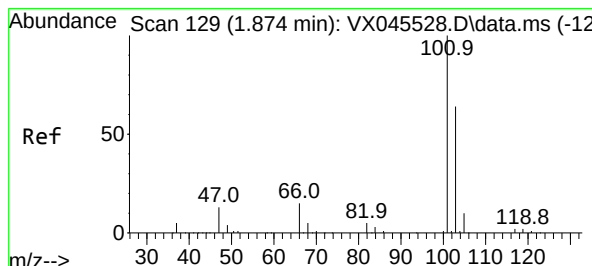
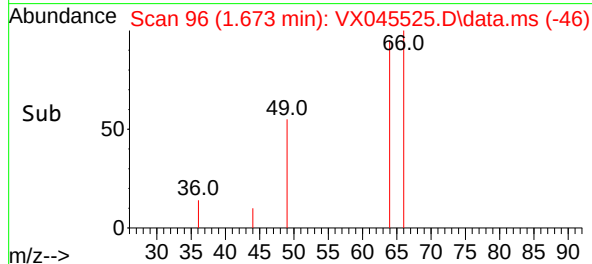
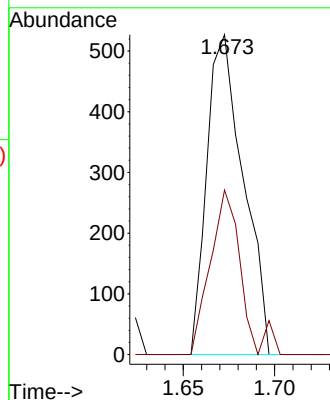
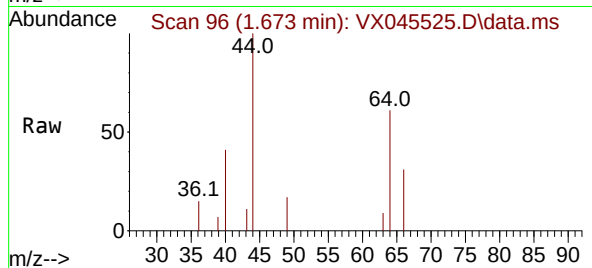
#6
Chloroethane
Concen: 1.014 ug/l
RT: 1.673 min Scan# 90
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 64 Resp: 732
Ion Ratio Lower Upper
64 100
66 51.4 26.3 39.5

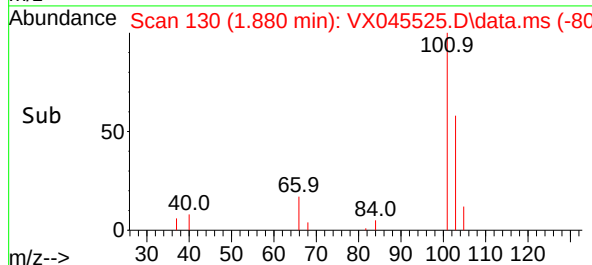
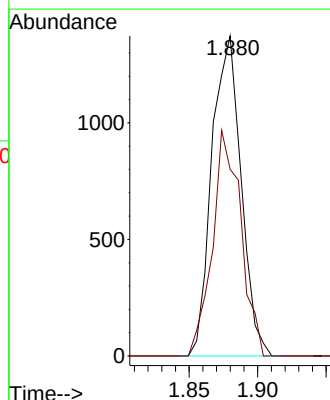
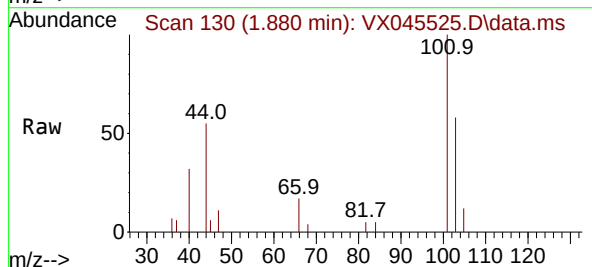
Manual Integrations
APPROVED

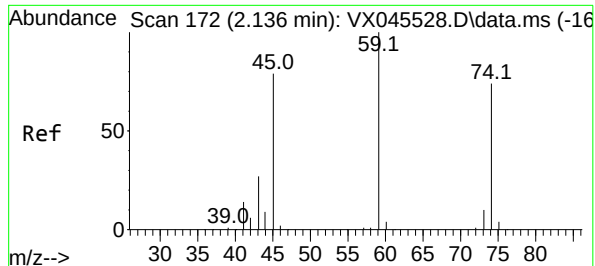
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#7
Trichlorofluoromethane
Concen: 1.003 ug/l
RT: 1.880 min Scan# 130
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:101 Resp: 2034
Ion Ratio Lower Upper
101 100
103 58.3 51.1 76.7



#8
Diethyl Ether

Concen: 0.981 ug/l

RT: 2.130 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 74 Resp: 668

Ion Ratio Lower Upper

74 100

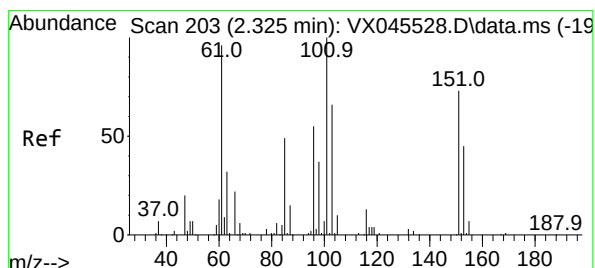
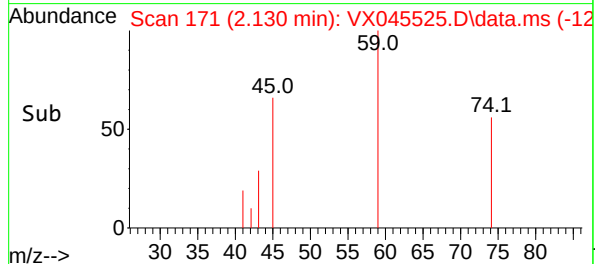
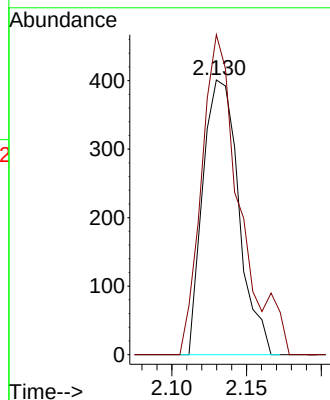
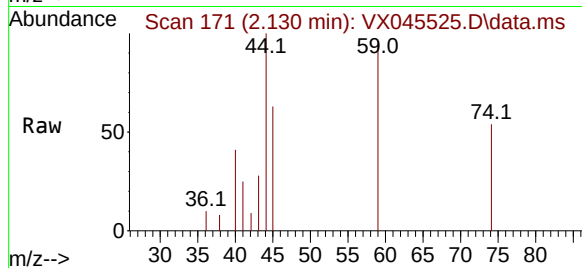
45 124.1 53.0 159.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.936 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

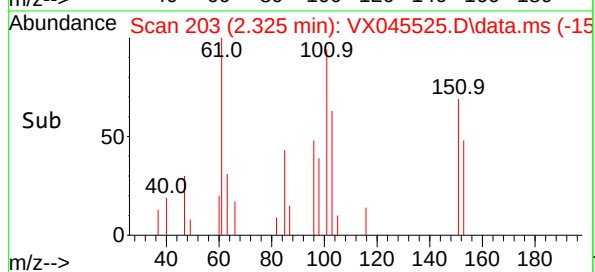
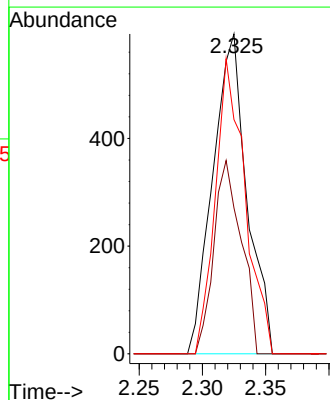
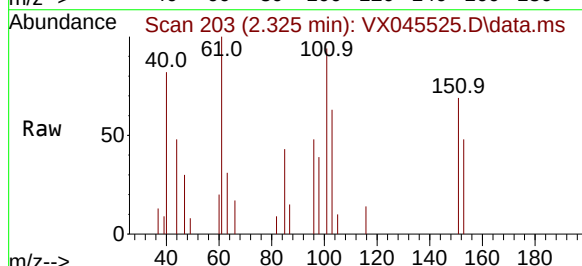
Tgt Ion:101 Resp: 1113

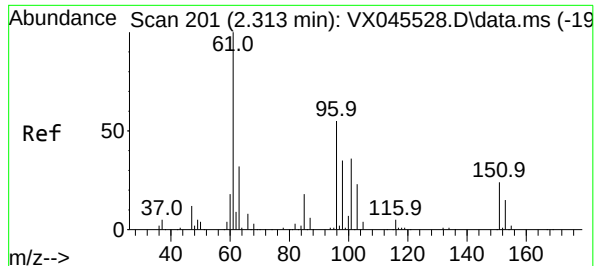
Ion Ratio Lower Upper

101 100

85 48.7 38.9 58.3

151 80.3 57.5 86.3





#12

1,1-Dichloroethene

Concen: 0.939 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

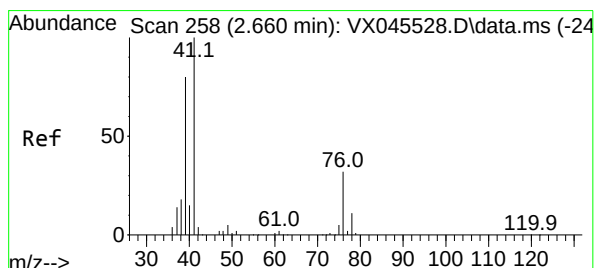
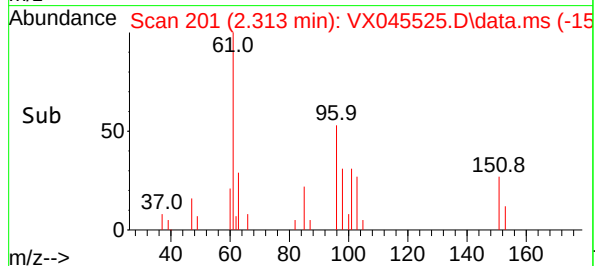
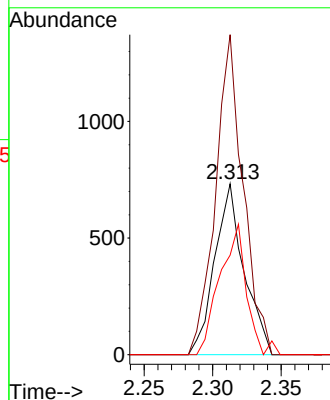
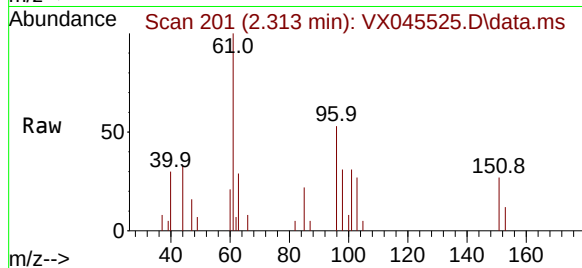
Tgt Ion:	96	Resp:	1090
Ion	Ratio	Lower	Upper
96	100		
61	187.2	145.7	218.5
98	58.3	51.6	77.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#14

Allyl chloride

Concen: 0.959 ug/l

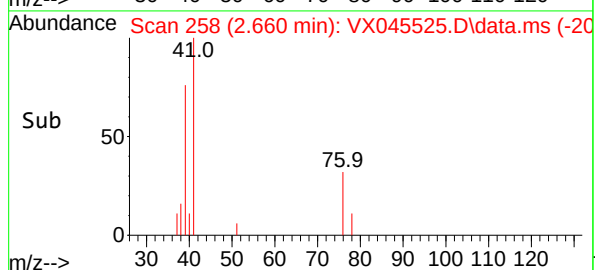
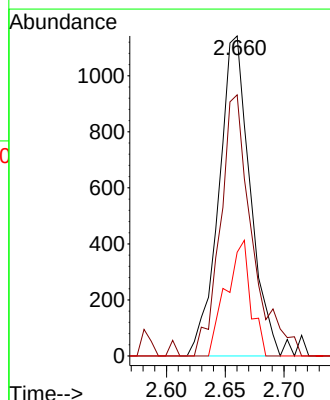
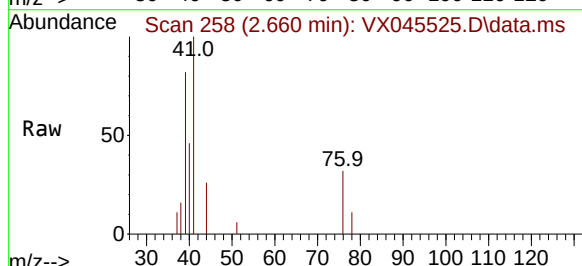
RT: 2.660 min Scan# 258

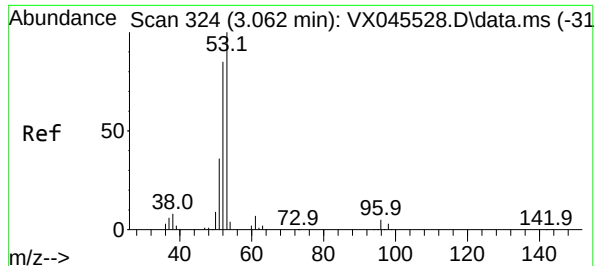
Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	41	Resp:	2113
Ion	Ratio	Lower	Upper
41	100		
39	82.6	60.2	90.2
76	28.3	24.6	36.8





#15

Acrylonitrile

Concen: 4.592 ug/l

RT: 3.075 min Scan# 31

Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

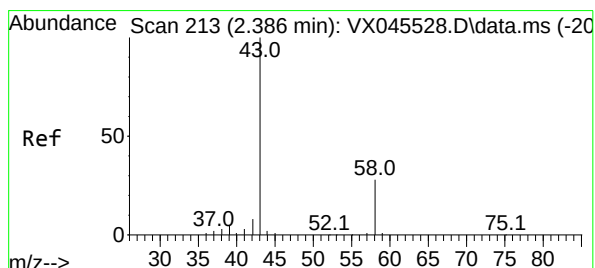
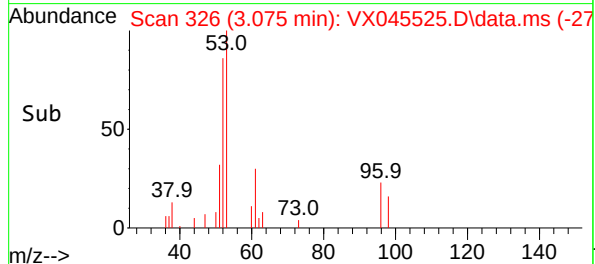
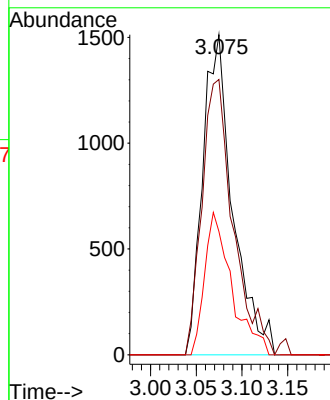
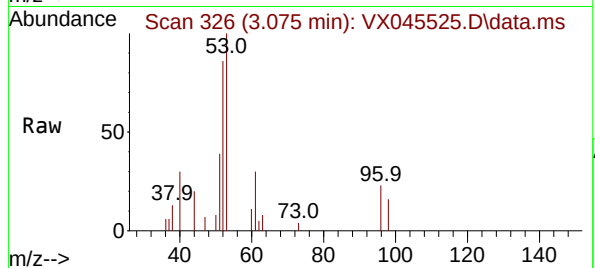
VSTDICC001

Tgt Ion:	53	Resp:	344
Ion	Ratio	Lower	Upper
53	100		
52	89.4	67.4	101.2
51	40.1	29.9	44.9

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 5.323 ug/l

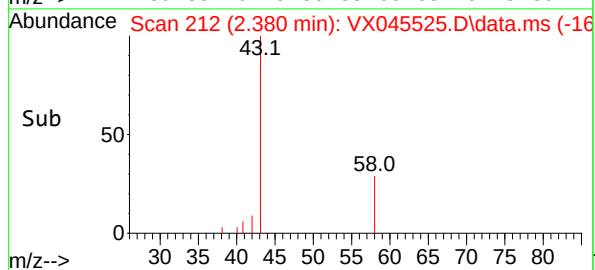
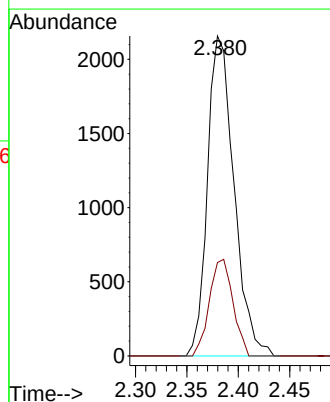
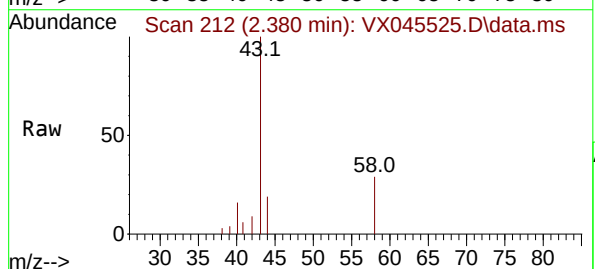
RT: 2.380 min Scan# 212

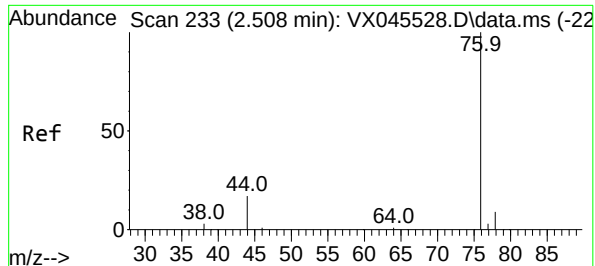
Delta R.T. -0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	43	Resp:	3867
Ion	Ratio	Lower	Upper
43	100		
58	29.2	22.3	33.5





#17

Carbon Disulfide

Concen: 0.899 ug/l

RT: 2.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 76 Resp: 2580

Ion Ratio Lower Upper

76 100

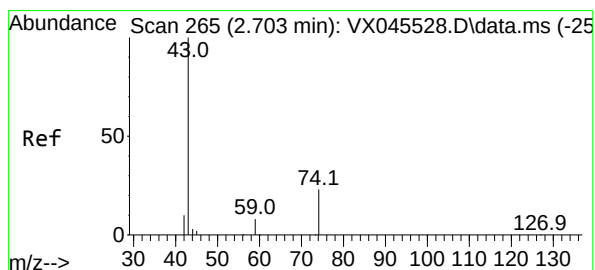
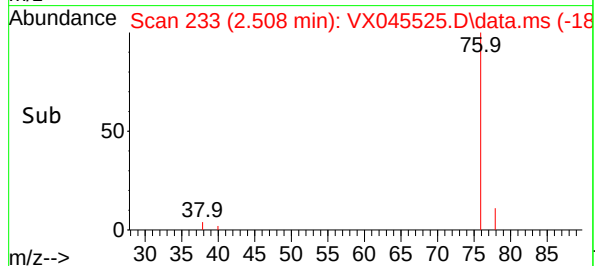
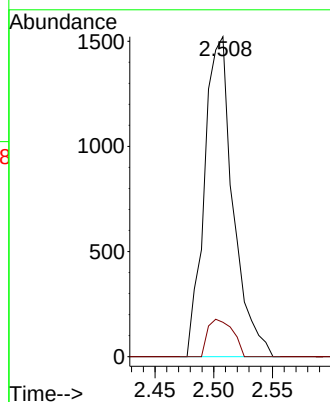
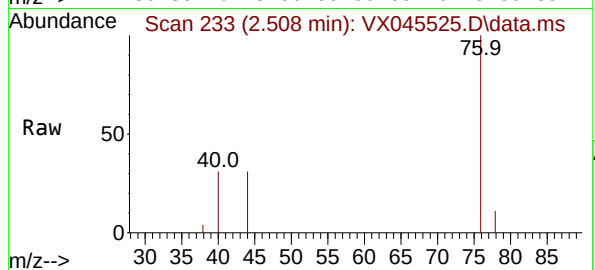
78 10.7 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#18

Methyl Acetate

Concen: 1.043 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045525.D

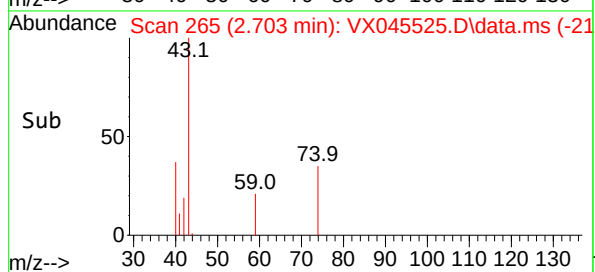
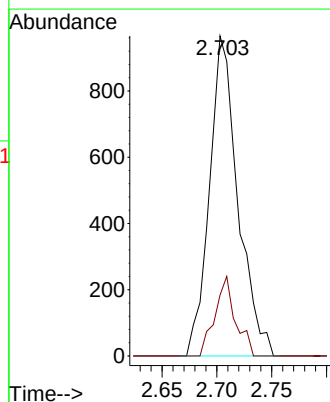
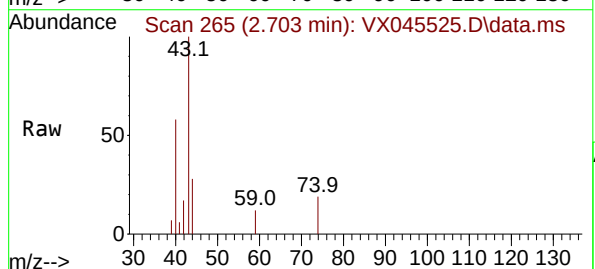
Acq: 01 Apr 2025 17:06

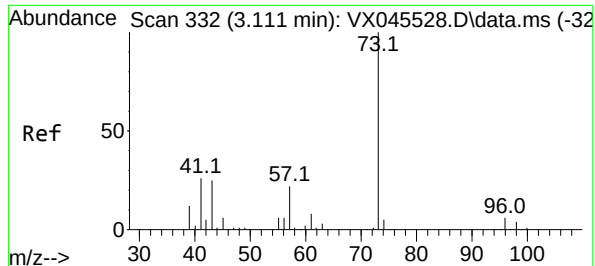
Tgt Ion: 43 Resp: 1744

Ion Ratio Lower Upper

43 100

74 17.8 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 0.912 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 73 Resp: 370

Ion Ratio Lower Upper

73 100

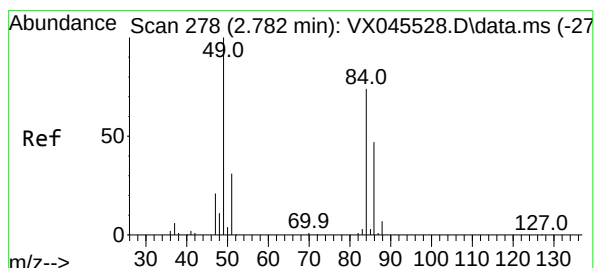
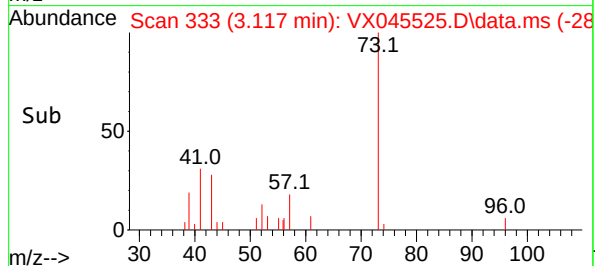
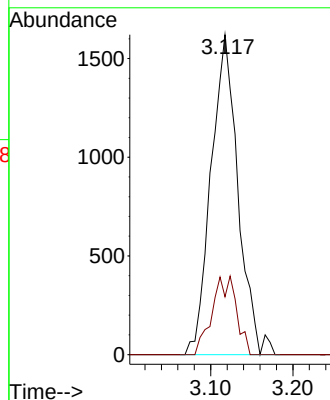
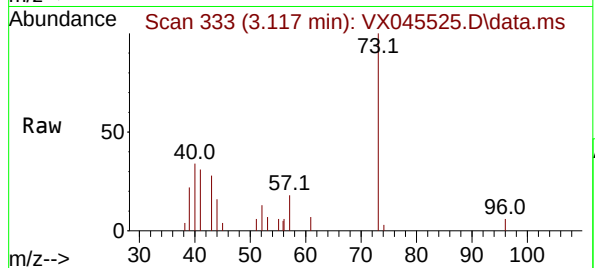
57 18.1 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 0.984 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion: 84 Resp: 1338

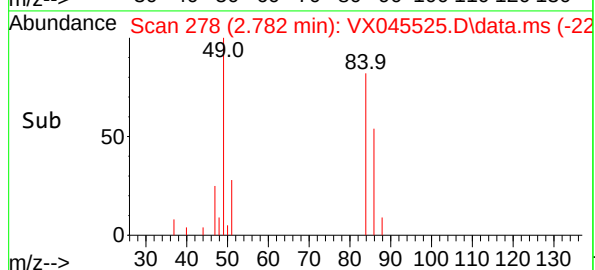
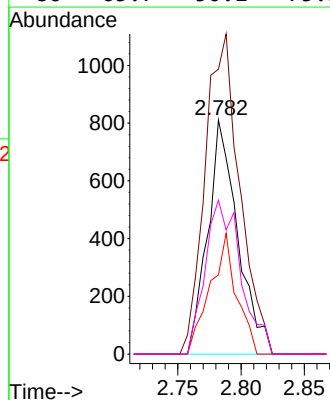
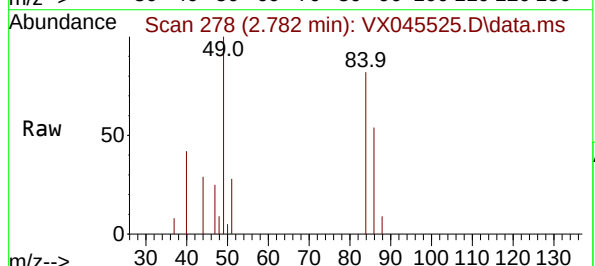
Ion Ratio Lower Upper

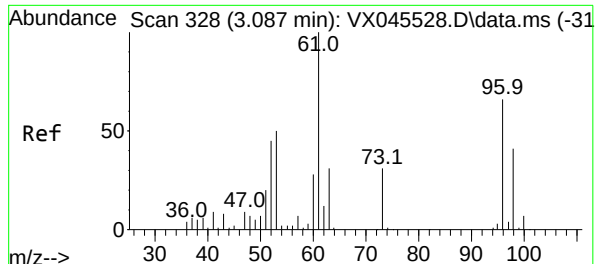
84 100

49 121.7 107.5 161.3

51 33.8 33.0 49.6

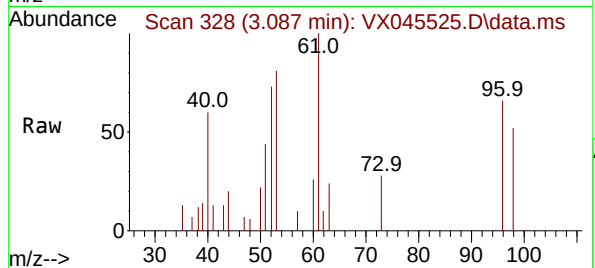
86 65.7 50.1 75.1





#21
trans-1,2-Dichloroethene
Concen: 0.936 ug/l
RT: 3.087 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

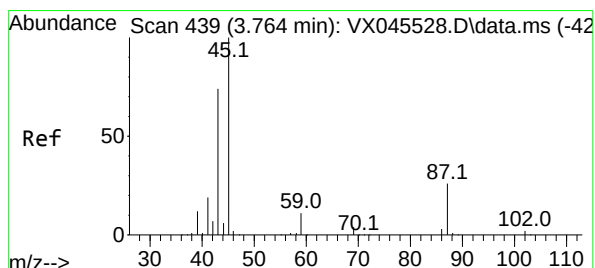
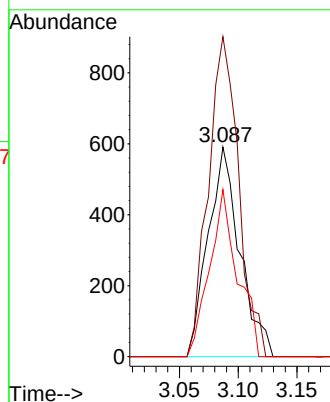
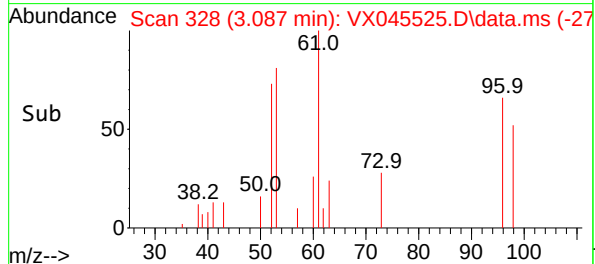
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 96 Resp: 111
Ion Ratio Lower Upper
96 100
61 152.6 121.0 181.6
98 79.7 49.7 74.5

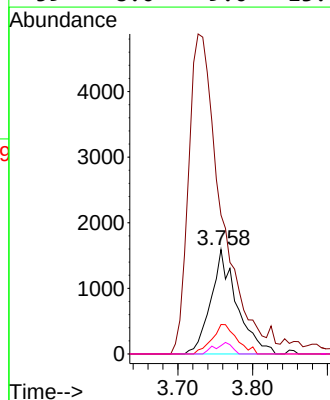
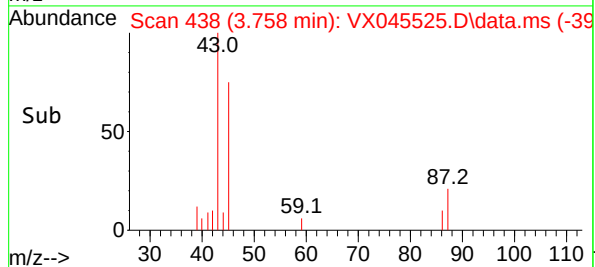
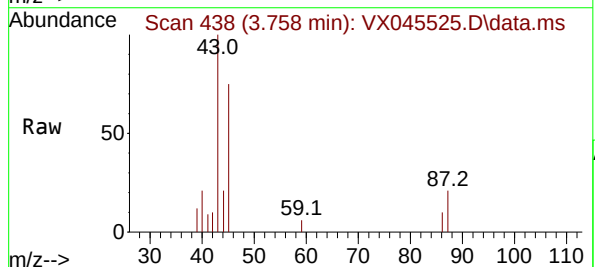
Manual Integrations
APPROVED

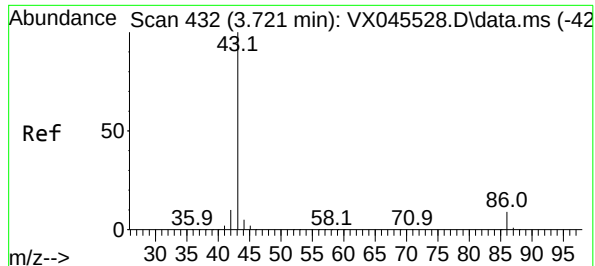
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#22
Diisopropyl ether
Concen: 0.893 ug/l
RT: 3.758 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 45 Resp: 3875
Ion Ratio Lower Upper
45 100
43 123.5 59.3 88.9#
87 28.2 20.4 30.6
59 8.0 9.0 13.6#





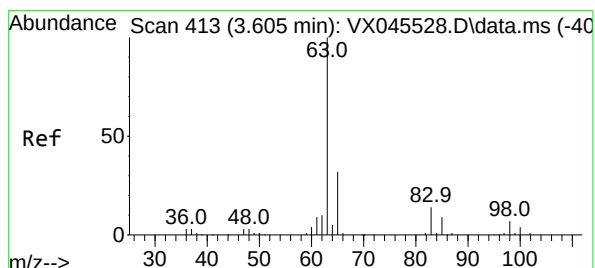
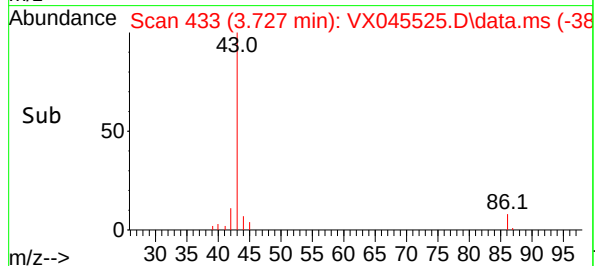
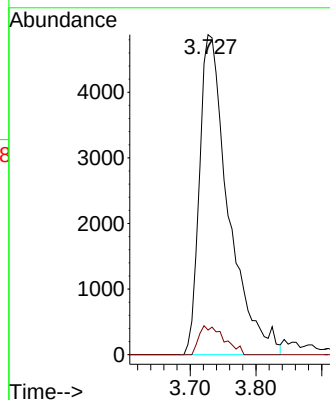
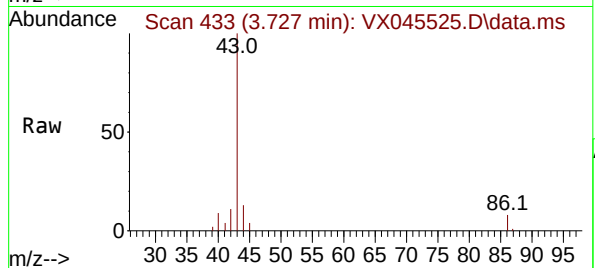
#23
Vinyl Acetate
Concen: 3.979 ug/l
RT: 3.727 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1492
Ion Ratio Lower Upper
43 100
86 7.7 7.5 11.3

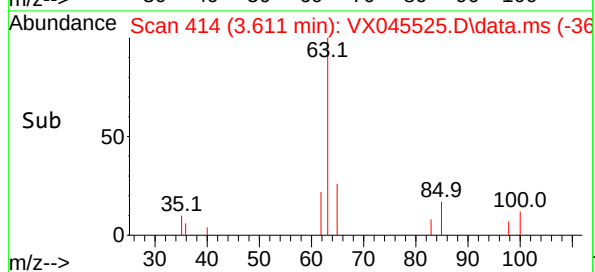
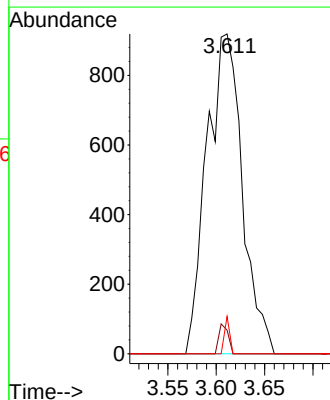
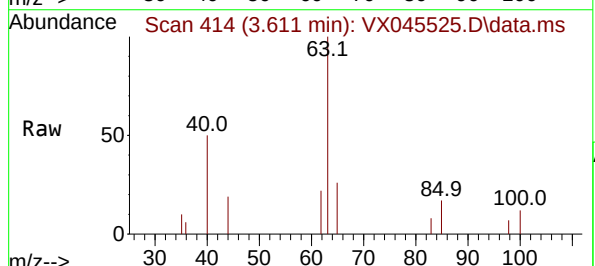
Manual Integrations
APPROVED

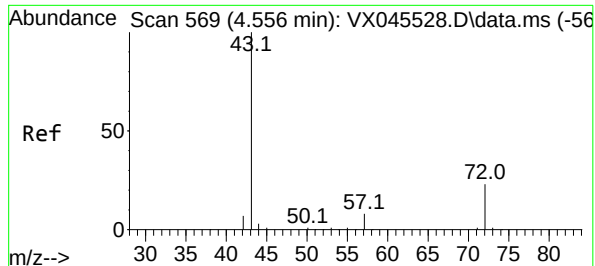
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#24
1,1-Dichloroethane
Concen: 0.954 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 63 Resp: 2343
Ion Ratio Lower Upper
63 100
98 7.4 3.4 10.1
100 11.6 2.2 6.6#





#25

2-Butanone

Concen: 4.317 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.025 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 4590

Ion Ratio Lower Upper

43 100

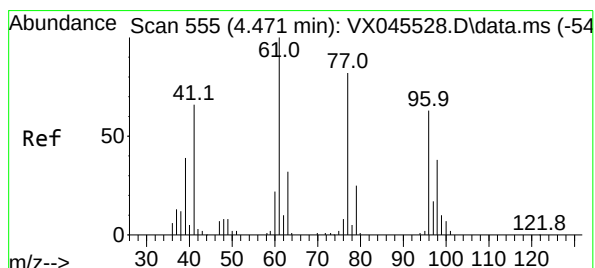
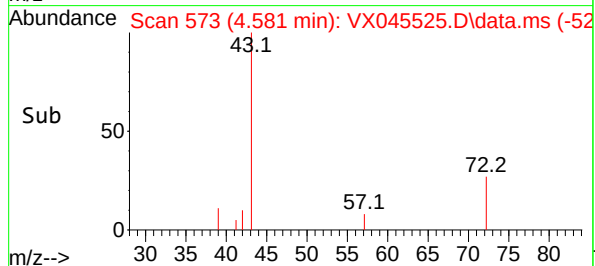
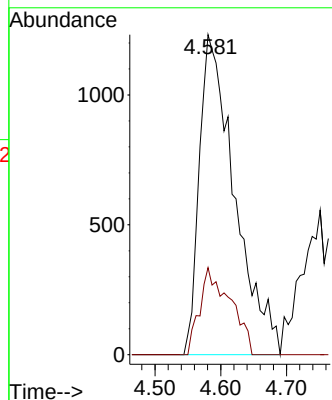
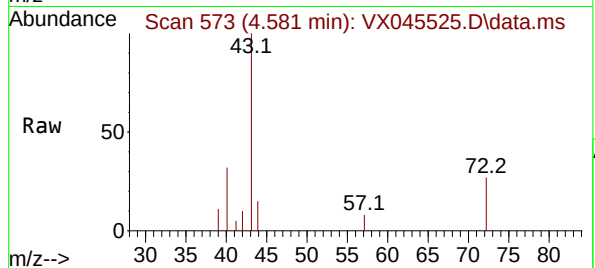
72 27.2 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#26

2,2-Dichloropropane

Concen: 0.824 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX045525.D

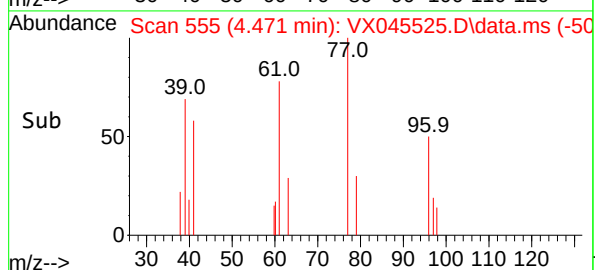
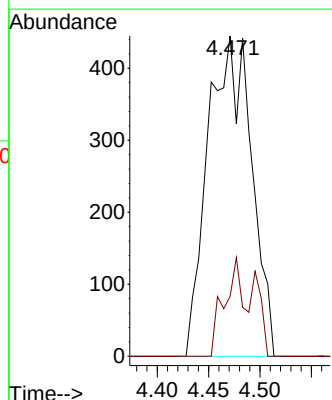
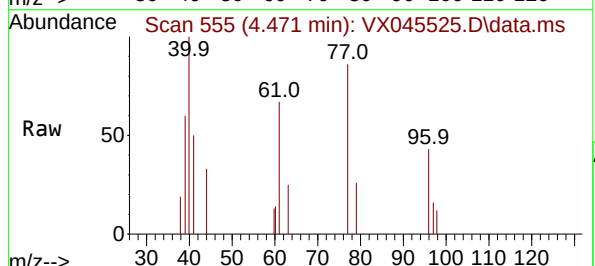
Acq: 01 Apr 2025 17:06

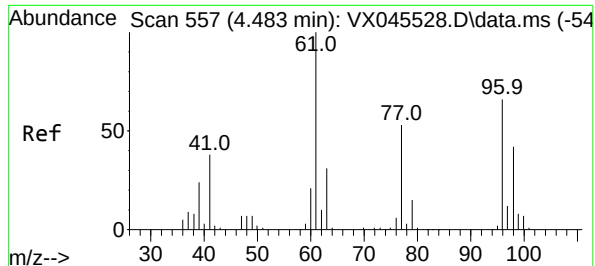
Tgt Ion: 77 Resp: 1307

Ion Ratio Lower Upper

77 100

97 13.9 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 1.020 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

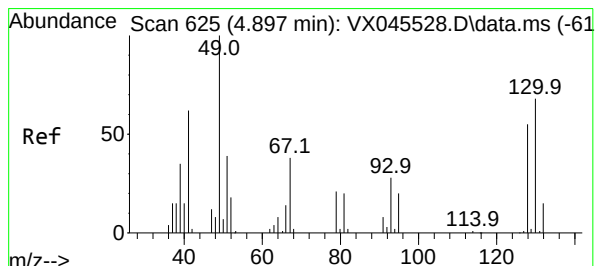
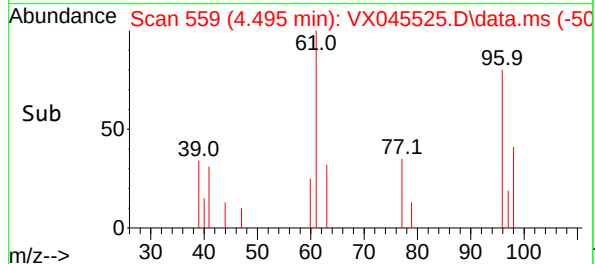
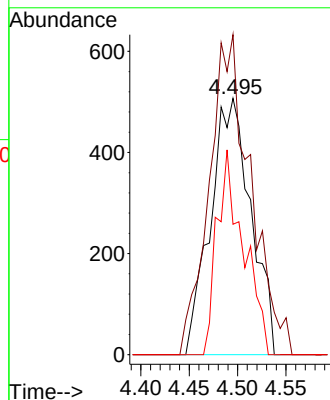
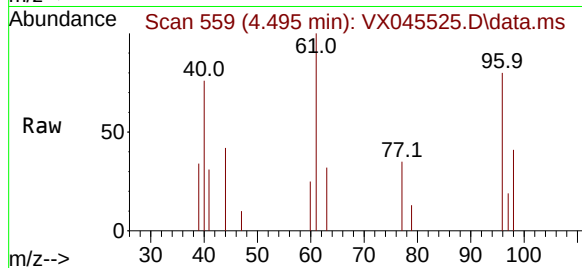
Tgt Ion:	96	Resp:	147
Ion	Ratio	Lower	Upper
96	100		
61	127.7	0.0	313.2
98	52.4	0.0	126.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 1.094 ug/l

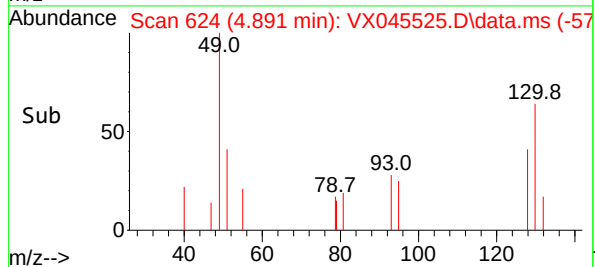
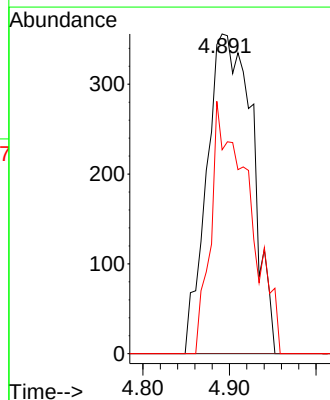
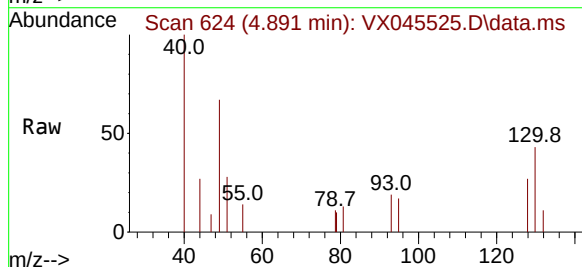
RT: 4.891 min Scan# 624

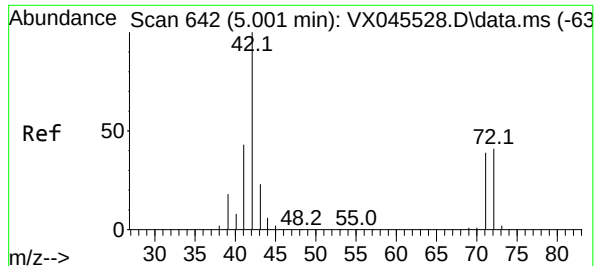
Delta R.T. -0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	49	Resp:	1298
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	66.0	54.6	81.8





#29

Tetrahydrofuran

Concen: 4.752 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.031 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

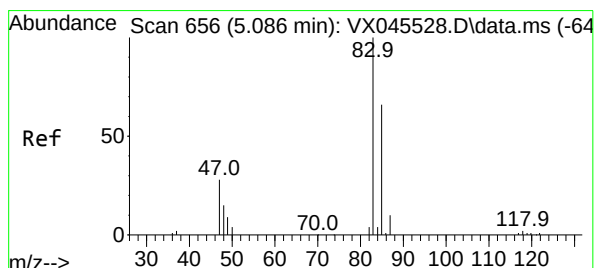
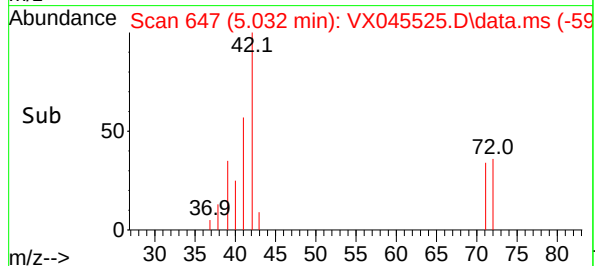
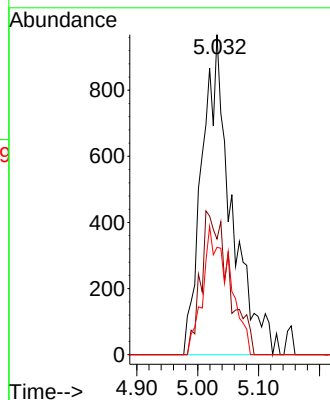
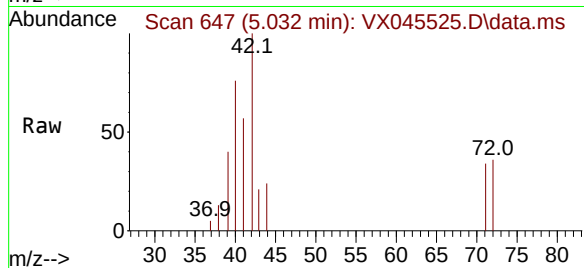
VSTDICC001

Tgt Ion:	42	Resp:	3270
Ion	Ratio	Lower	Upper
42	100		
72	42.3	33.4	50.0
71	36.0	31.4	47.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 0.953 ug/l

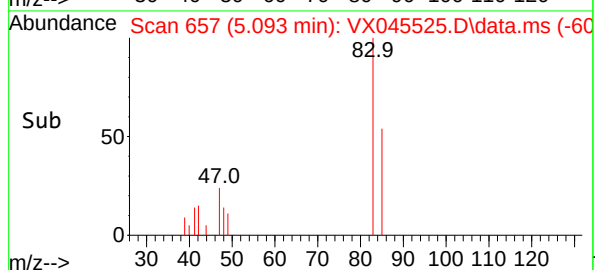
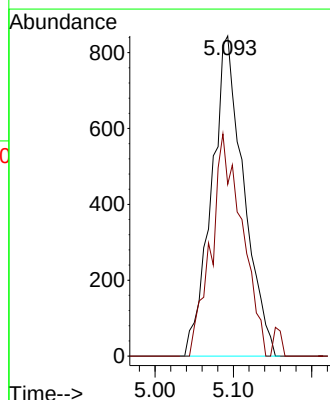
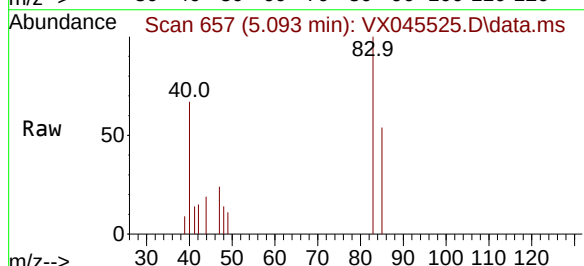
RT: 5.093 min Scan# 657

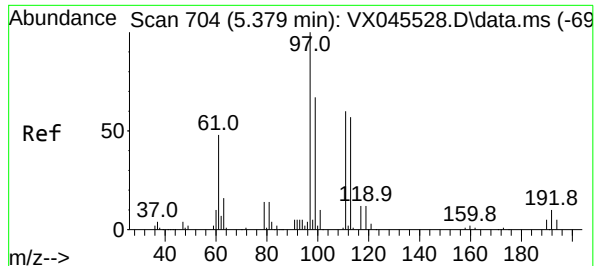
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	83	Resp:	2406
Ion	Ratio	Lower	Upper
83	100		
85	53.7	52.8	79.2





#32

1,1,1-Trichloroethane

Concen: 0.931 ug/l

RT: 5.385 min Scan# 70

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 1989

Ion Ratio Lower Upper

97 100

99 0.0 51.7 77.5

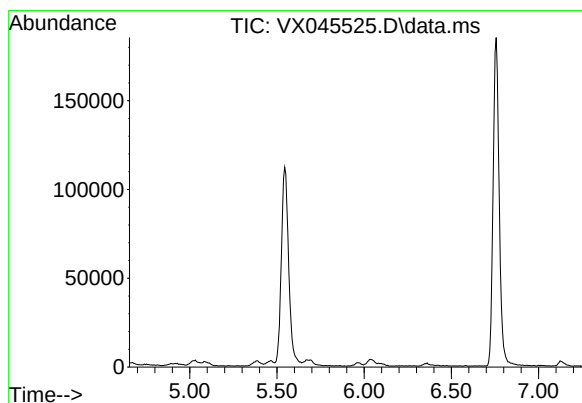
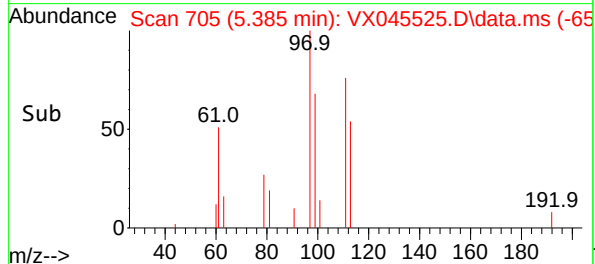
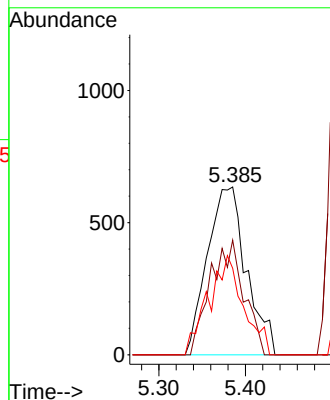
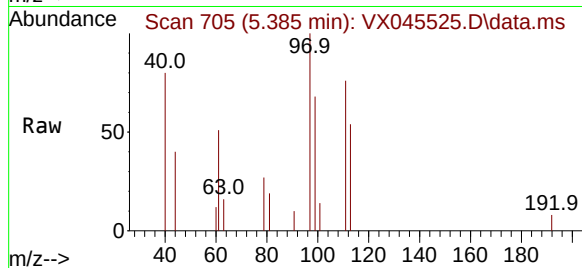
61 52.8 41.0 61.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.95 min

Lab File: VX045525.D

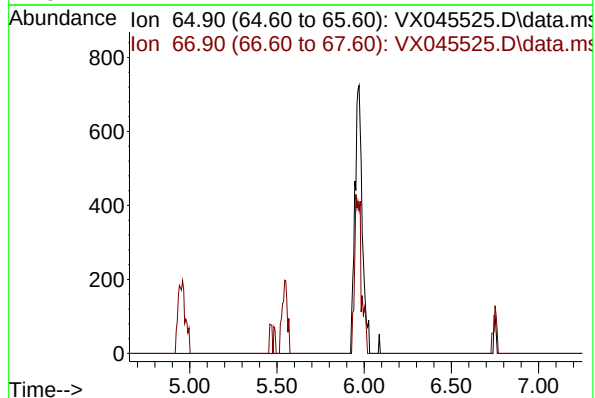
Acq: 01 Apr 2025 17:06

Tgt Ion: 65

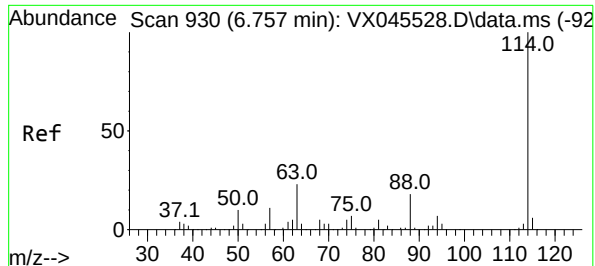
Sig Exp Ratio

65 100

67 49.5



Ion 66.90 (66.60 to 67.60): VX045525.D\data.ms



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:114 Resp: 175260

Ion Ratio Lower Upper

114 100

63 24.3 0.0 46.8

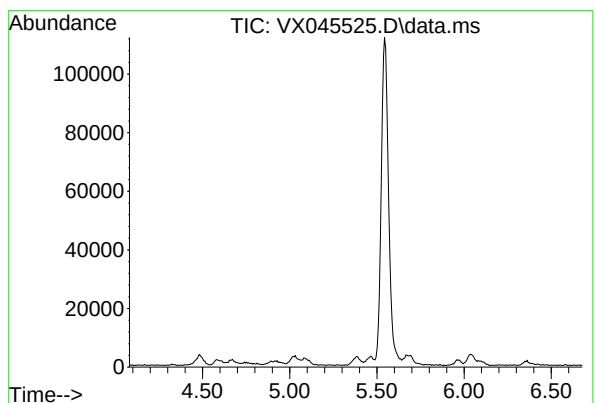
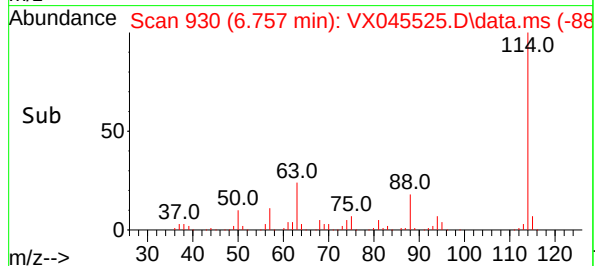
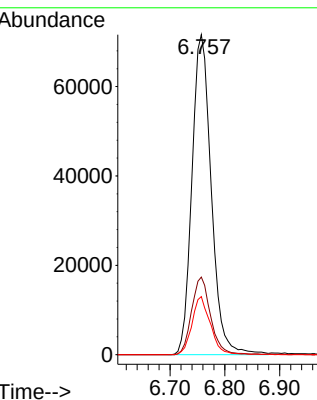
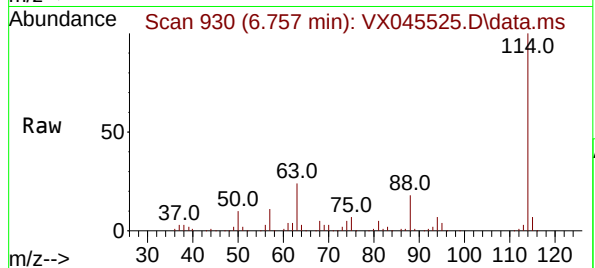
88 18.1 0.0 35.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.38 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

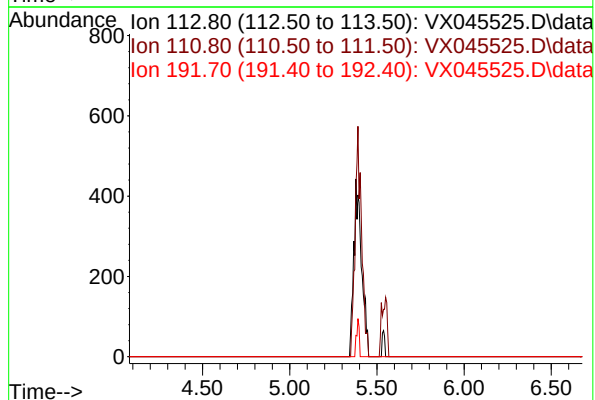
Tgt Ion: 113

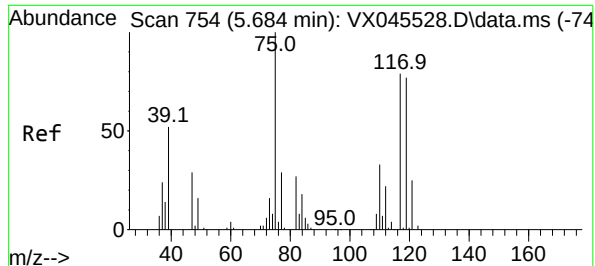
Sig Exp Ratio

113 100

111 102.2

192 17.2





#36

1,1-Dichloropropene

Concen: 0.995 ug/l

RT: 5.696 min Scan# 701

Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

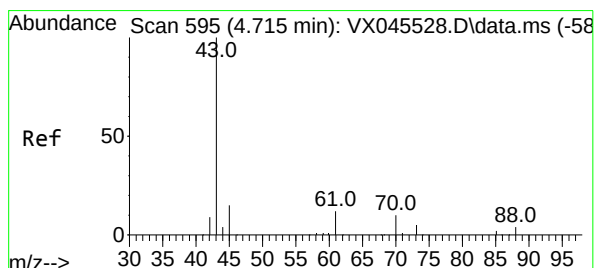
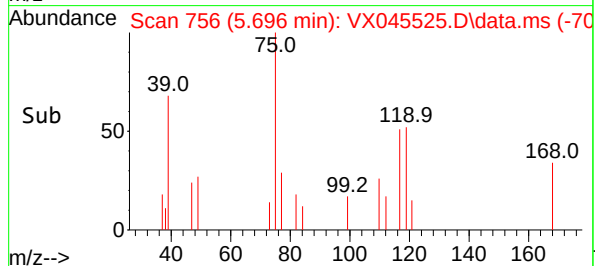
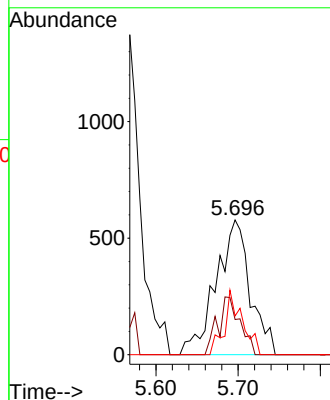
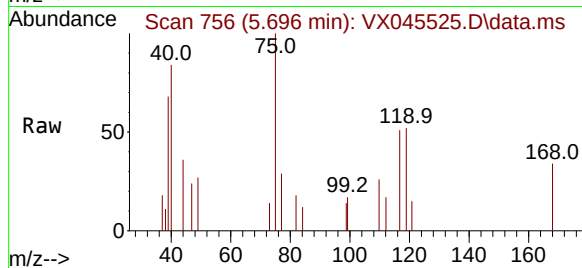
VSTDIC001

Tgt Ion:	75	Resp:	167
Ion	Ratio	Lower	Upper
75	100		
110	27.6	16.9	50.6
77	25.0	25.0	37.4

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#37

Ethyl Acetate

Concen: 0.964 ug/l

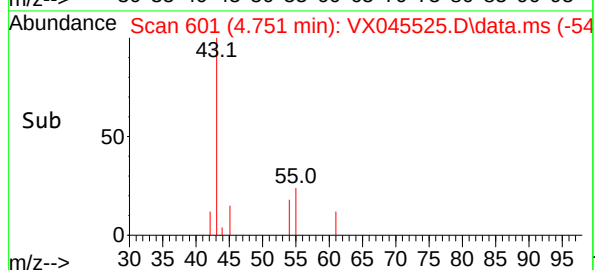
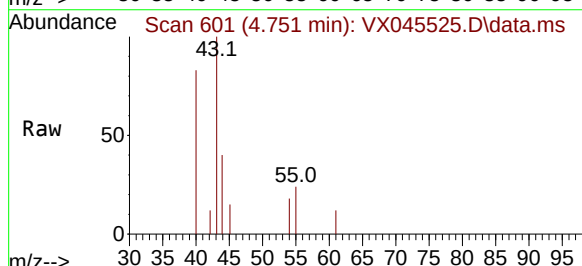
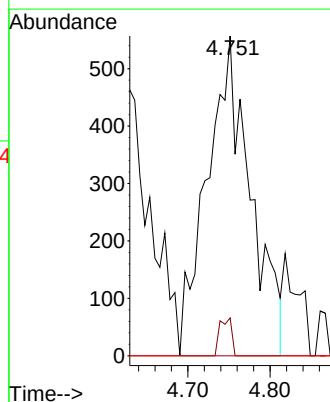
RT: 4.751 min Scan# 601

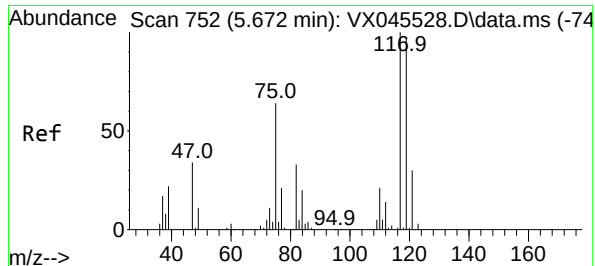
Delta R.T. 0.037 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	43	Resp:	2040
Ion	Ratio	Lower	Upper
43	100		
61	3.3	9.9	14.9#
70	0.0	7.5	11.3#





#38

Carbon Tetrachloride

Concen: 0.870 ug/l

RT: 5.672 min Scan# 752

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

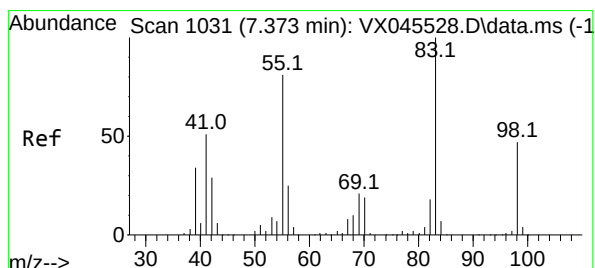
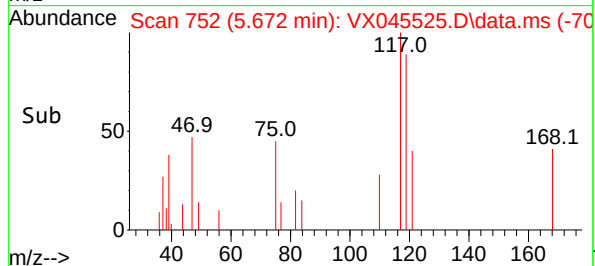
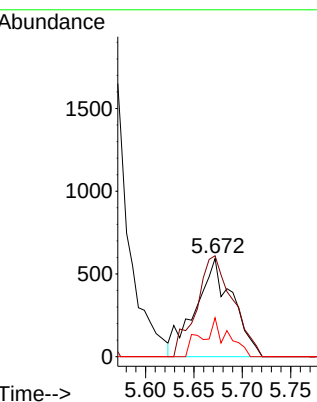
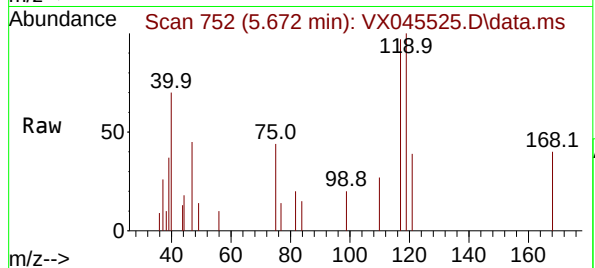
Tgt Ion:	117	Resp:	1578
Ion	Ratio	Lower	Upper
117	100		
119	102.7	76.9	115.3
121	39.6	24.2	36.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#39

Methylcyclohexane

Concen: 0.883 ug/l

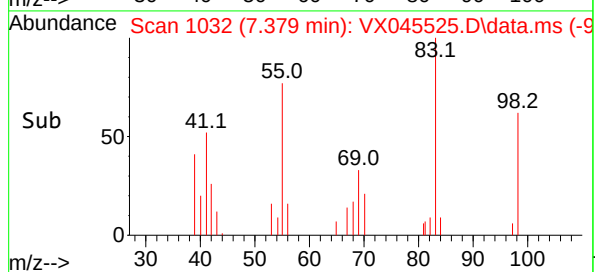
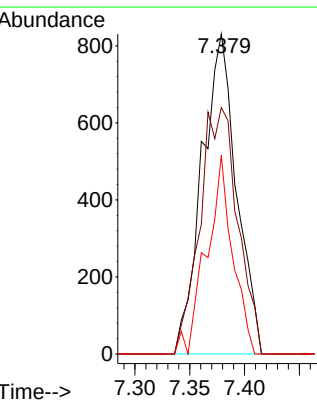
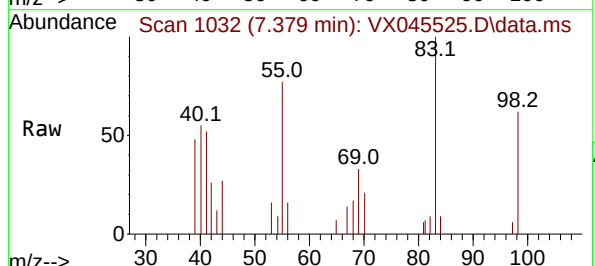
RT: 7.379 min Scan# 1032

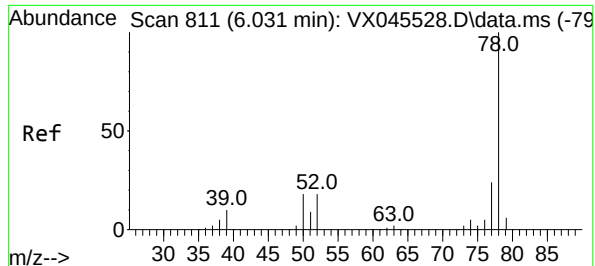
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	83	Resp:	1818
Ion	Ratio	Lower	Upper
83	100		
55	77.0	64.9	97.3
98	62.1	37.4	56.0





#40

Benzene

Concen: 0.967 ug/l

RT: 6.038 min Scan# 811

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 495

Ion Ratio Lower Upper

78 100

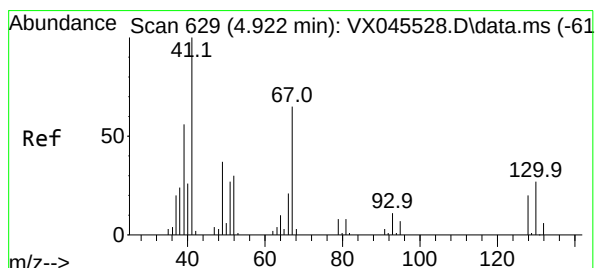
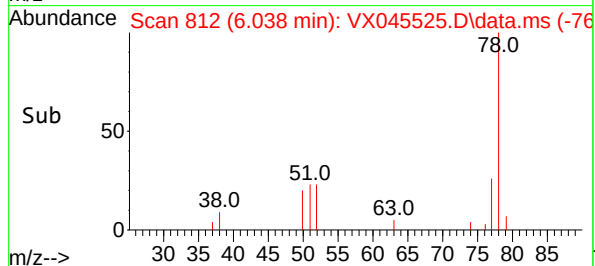
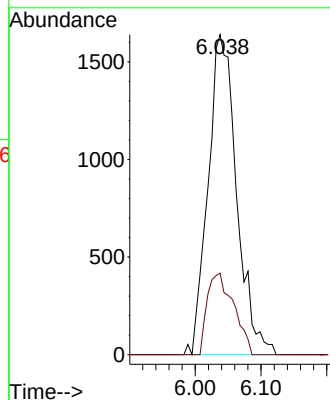
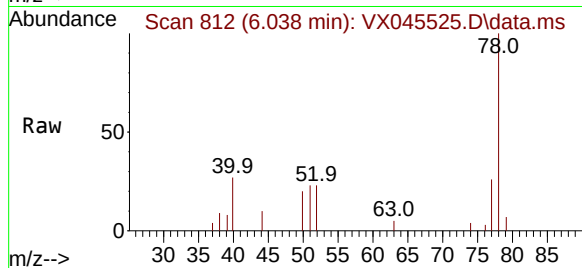
77 25.5 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#41

Methacrylonitrile

Concen: 0.784 ug/l m

RT: 4.952 min Scan# 634

Delta R.T. 0.031 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion: 41 Resp: 883

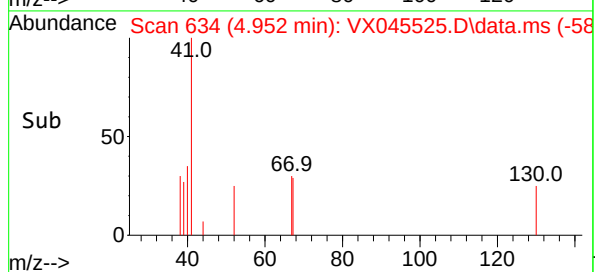
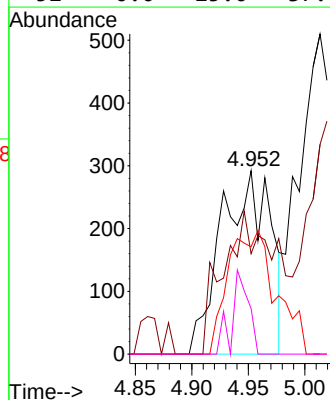
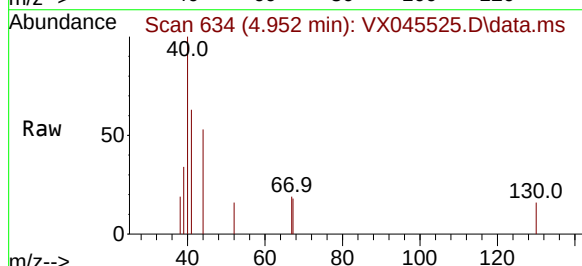
Ion Ratio Lower Upper

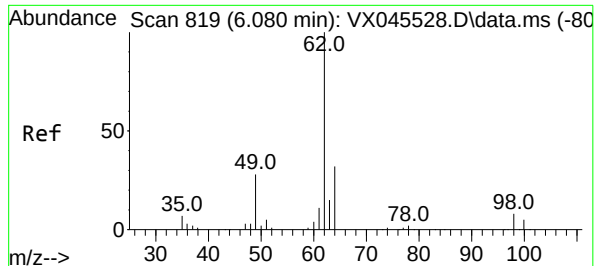
41 100

39 0.0 47.0 70.6#

67 0.0 53.2 79.8#

52 0.0 25.0 37.6#





#42

1,2-Dichloroethane

Concen: 0.882 ug/l

RT: 6.092 min Scan# 819

Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 186

Ion Ratio Lower Upper

62 100

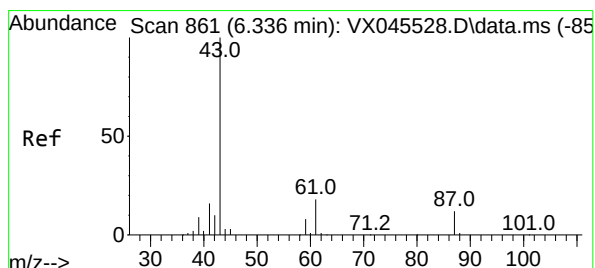
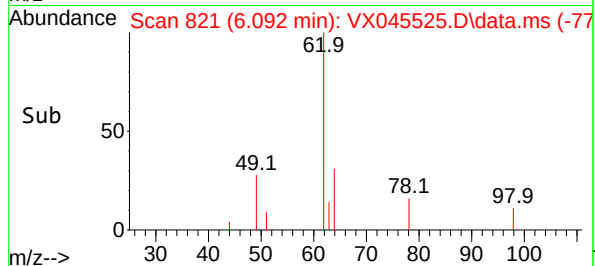
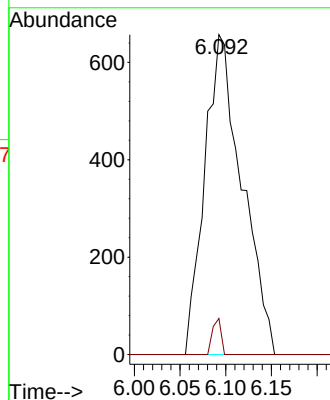
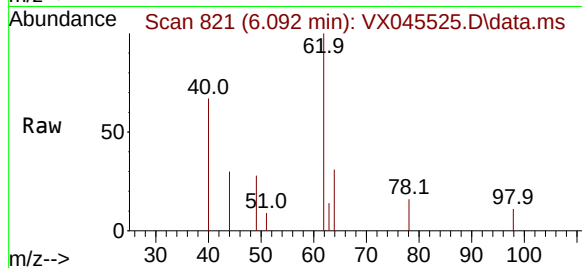
98 2.6 0.0 15.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#43

Isopropyl Acetate

Concen: 0.804 ug/l

RT: 6.361 min Scan# 865

Delta R.T. 0.025 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

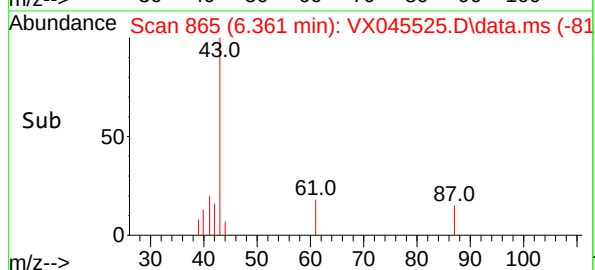
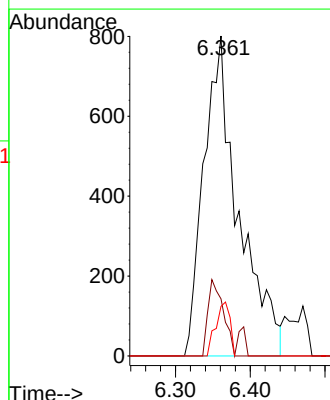
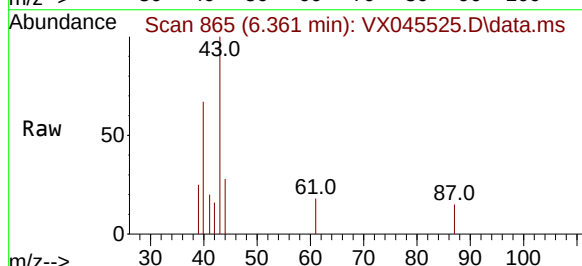
Tgt Ion: 43 Resp: 2578

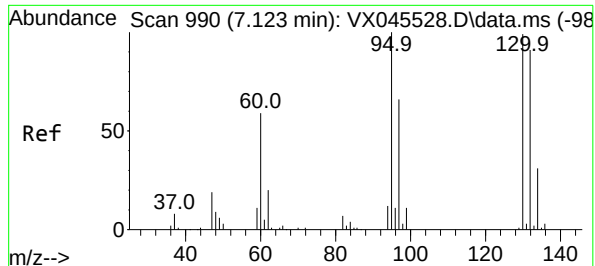
Ion Ratio Lower Upper

43 100

61 10.6 14.1 21.1#

87 6.9 9.2 13.8#





#44

Trichloroethene

Concen: 1.004 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:130 Resp: 1224

Ion Ratio Lower Upper

130 100

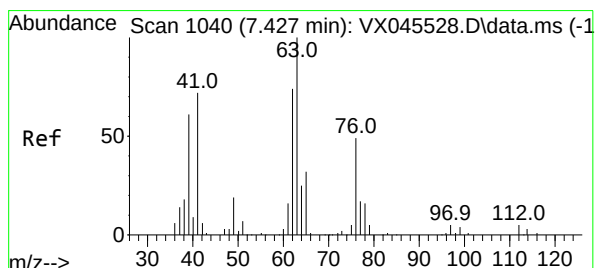
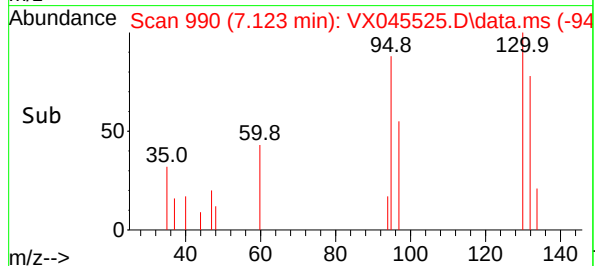
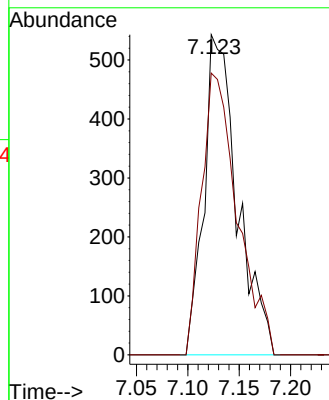
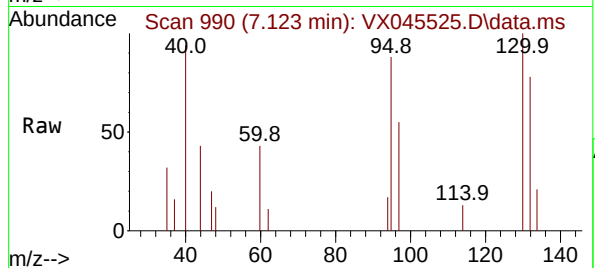
95 88.0 0.0 202.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#45

1,2-Dichloropropane

Concen: 0.846 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX045525.D

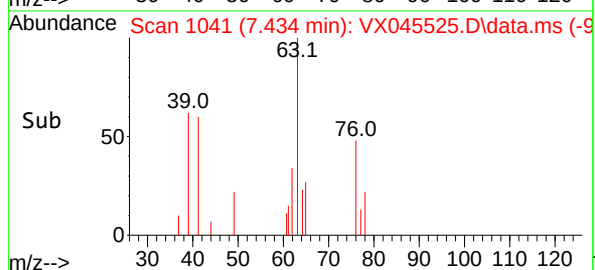
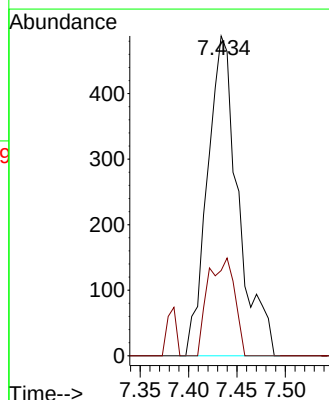
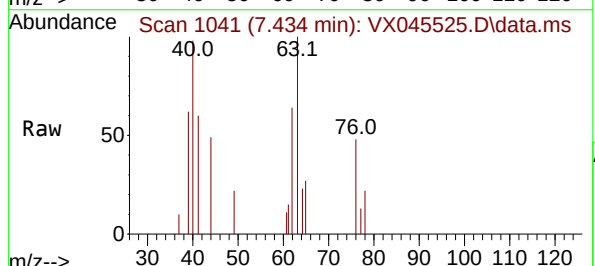
Acq: 01 Apr 2025 17:06

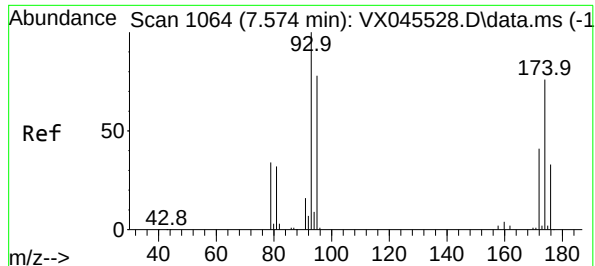
Tgt Ion: 63 Resp: 1082

Ion Ratio Lower Upper

63 100

65 26.6 25.8 38.6





#46

Dibromomethane

Concen: 0.846 ug/l

RT: 7.592 min Scan# 1105

Delta R.T. 0.018 min

Lab File: VX045525.D

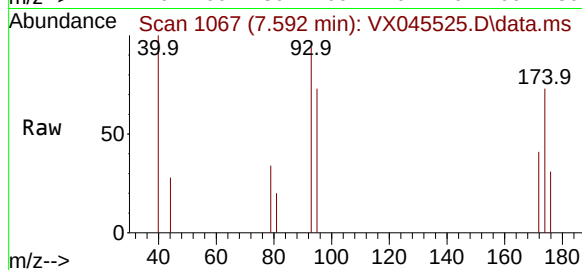
Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001



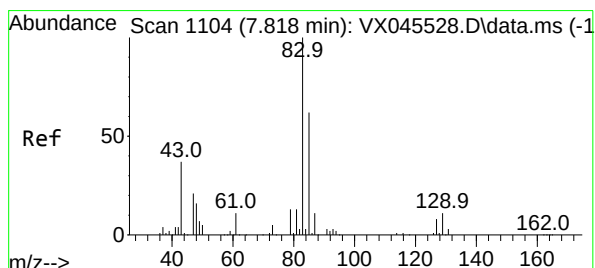
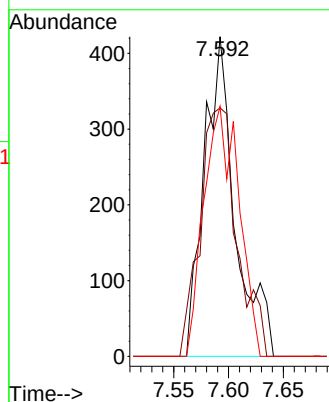
Tgt Ion:	93	Resp:	83
Ion	Ratio	Lower	Upper
93	100		
95	92.2	64.8	97.2
174	88.4	65.4	98.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#47

Bromodichloromethane

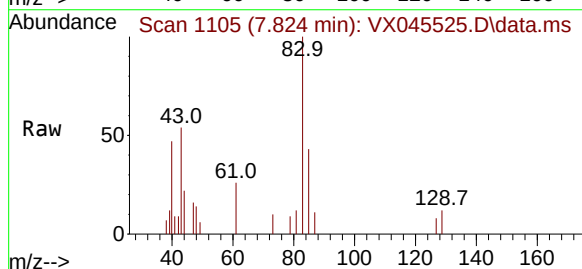
Concen: 0.931 ug/l

RT: 7.824 min Scan# 1105

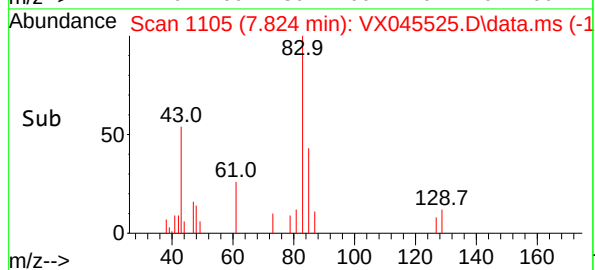
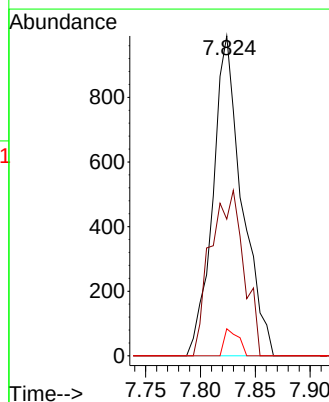
Delta R.T. 0.006 min

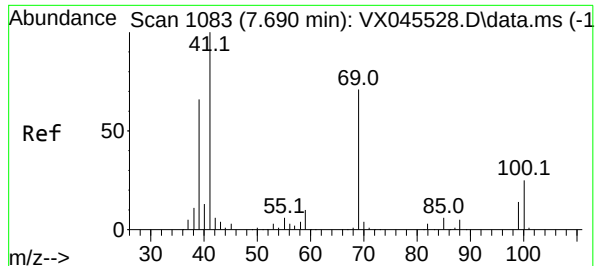
Lab File: VX045525.D

Acq: 01 Apr 2025 17:06



Tgt Ion:	83	Resp:	1827
Ion	Ratio	Lower	Upper
83	100		
85	42.7	49.7	74.5#
127	8.5	6.1	9.1





#48

Methyl methacrylate

Concen: 0.857 ug/l

RT: 7.720 min Scan# 1088

Delta R.T. 0.031 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

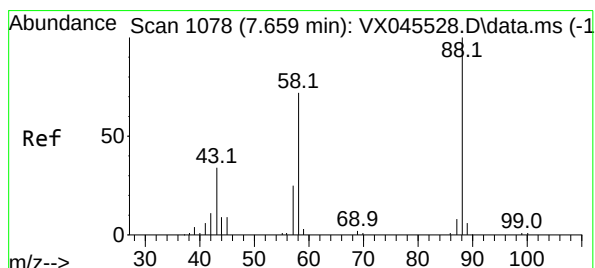
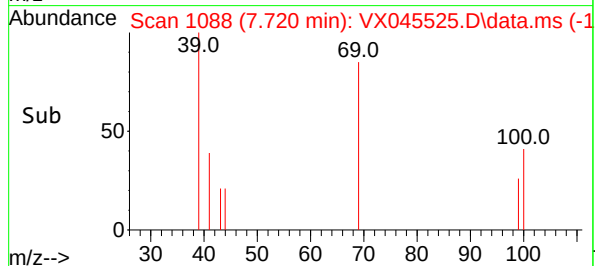
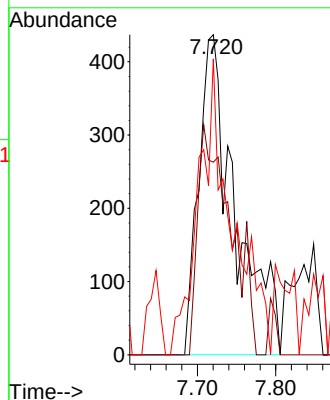
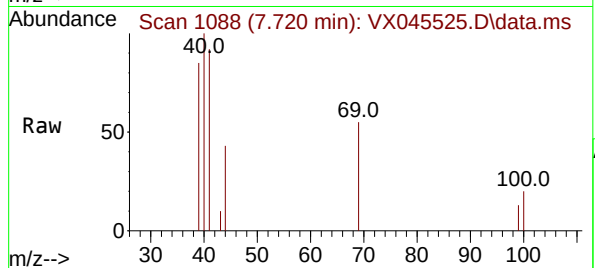
Tgt Ion:	41	Resp:	1419
Ion	Ratio	Lower	Upper
41	100		
69	64.7	58.2	87.2
39	72.7	53.6	80.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#49

1,4-Dioxane

Concen: 15.288 ug/l m

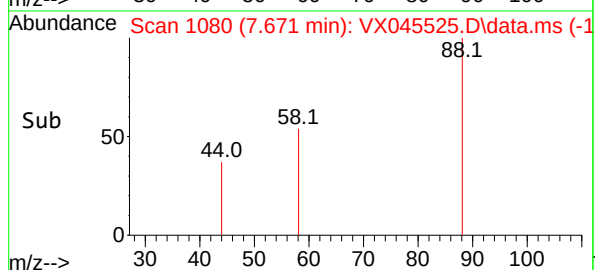
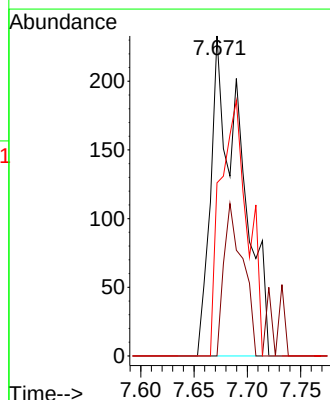
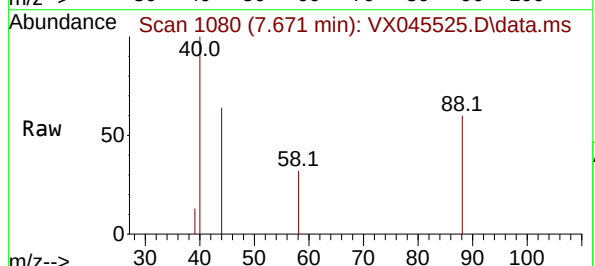
RT: 7.671 min Scan# 1080

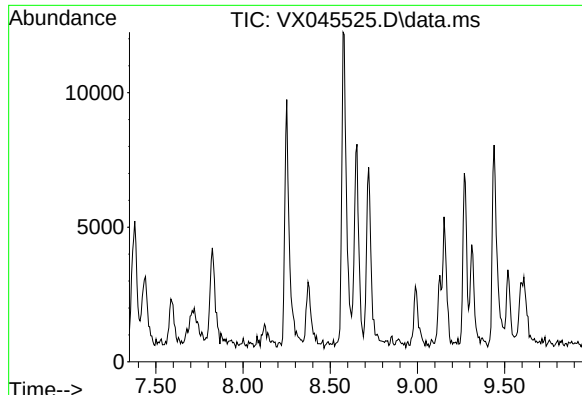
Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	88	Resp:	458
Ion	Ratio	Lower	Upper
88	100		
43	30.3	32.2	48.4#
58	72.3	58.6	88.0





#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

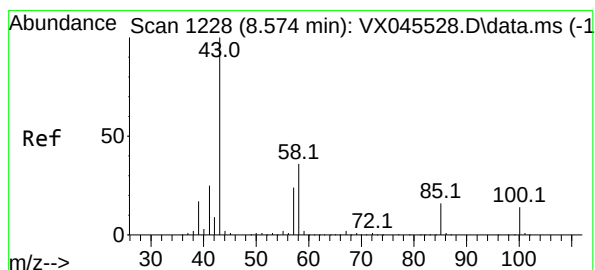
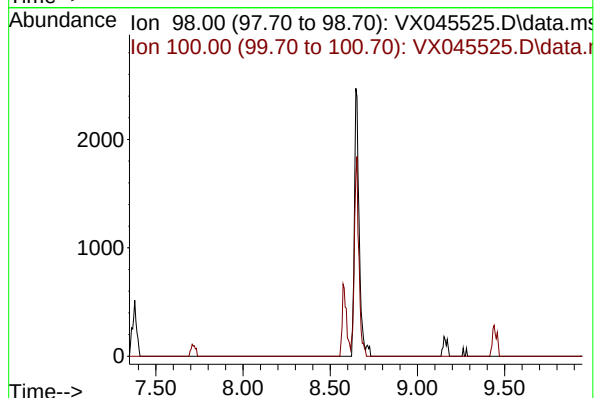
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 98
Sig Exp Ratio
98 100
100 65.3

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

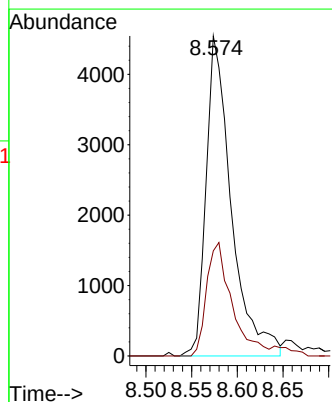
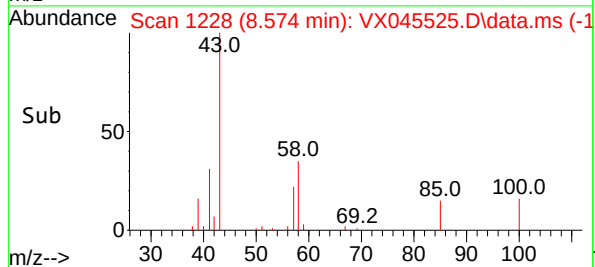
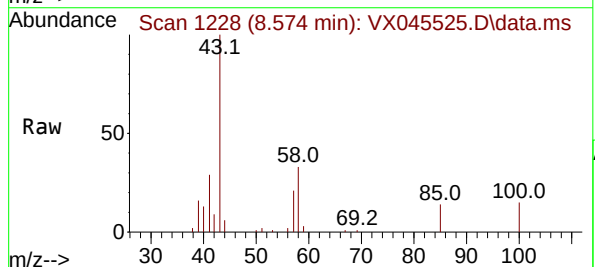
Manual Integrations
APPROVED

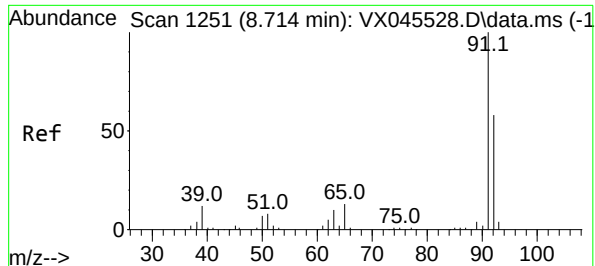
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#51
4-Methyl-2-Pentanone
Concen: 4.114 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 43 Resp: 8746
Ion Ratio Lower Upper
43 100
58 35.5 28.5 42.7





#52

Toluene

Concen: 0.923 ug/l

RT: 8.720 min Scan# 1251

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 286

Ion Ratio Lower Upper

92 100

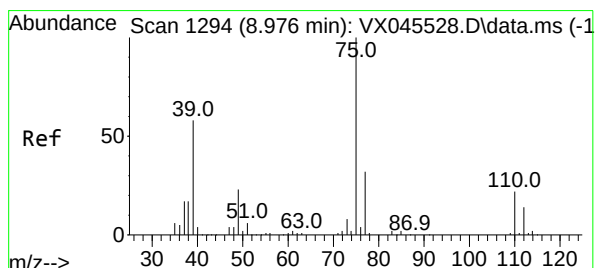
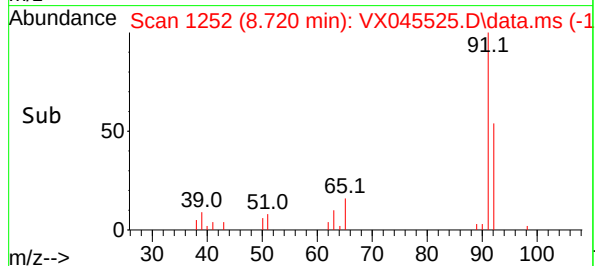
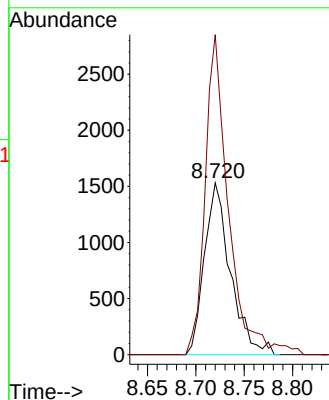
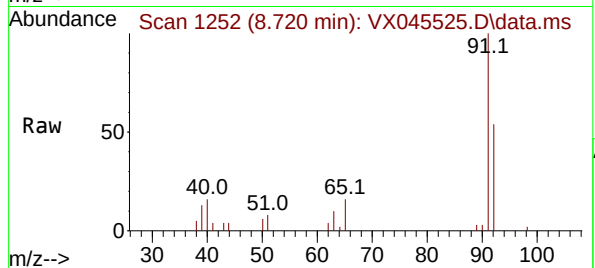
91 167.2 138.7 208.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#53

t-1,3-Dichloropropene

Concen: 2.850 ug/l

RT: 8.988 min Scan# 1296

Delta R.T. 0.012 min

Lab File: VX045525.D

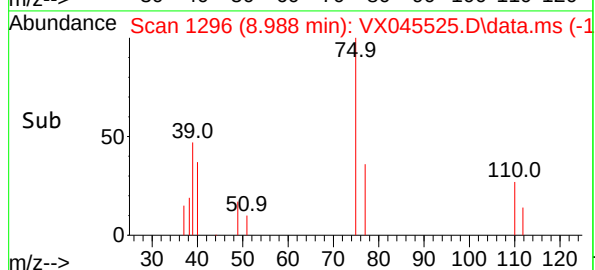
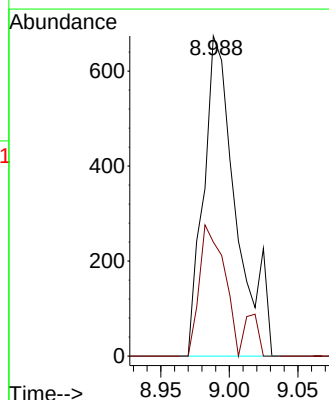
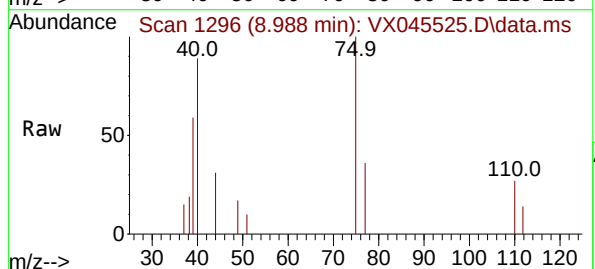
Acq: 01 Apr 2025 17:06

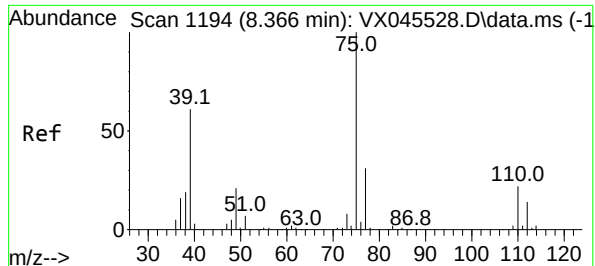
Tgt Ion: 75 Resp: 1109

Ion Ratio Lower Upper

75 100

77 35.6 25.4 38.0





#54

cis-1,3-Dichloropropene

Concen: 0.705 ug/l

RT: 8.379 min Scan# 1196

Delta R.T. 0.013 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

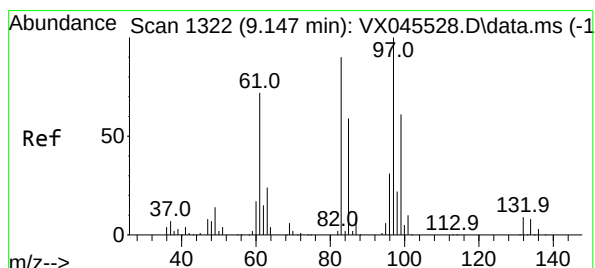
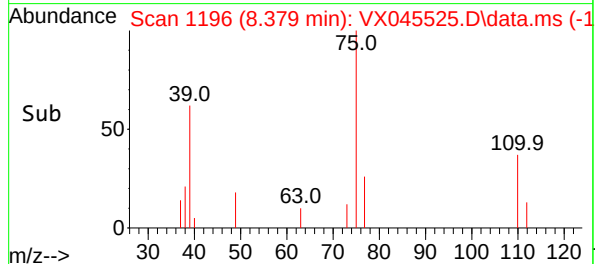
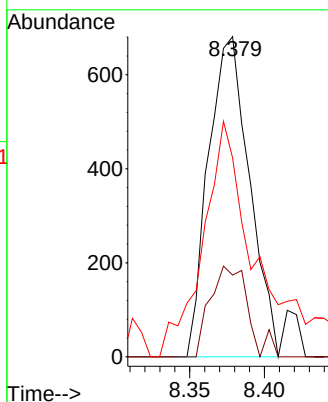
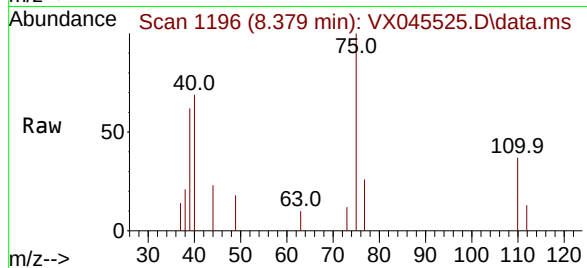
Tgt Ion:	75	Resp:	1300
Ion	Ratio	Lower	Upper
75	100		
77	25.6	24.6	36.8
39	52.4	48.4	72.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#55

1,1,2-Trichloroethane

Concen: 0.957 ug/l

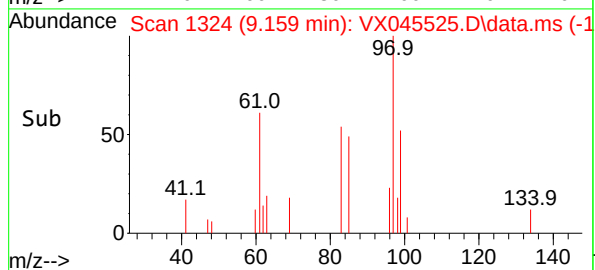
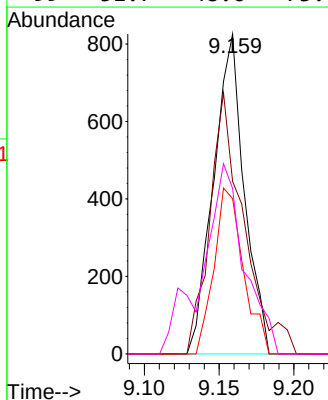
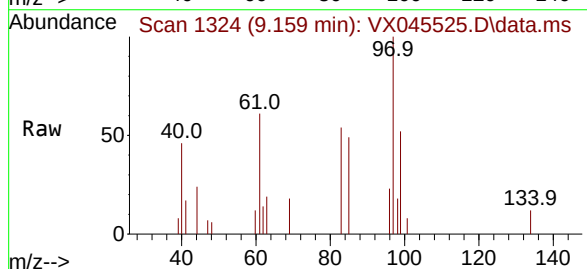
RT: 9.159 min Scan# 1324

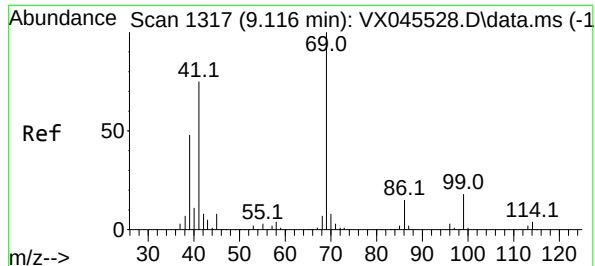
Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	97	Resp:	1183
Ion	Ratio	Lower	Upper
97	100		
83	53.9	71.8	107.8#
85	48.5	47.0	70.6
99	51.7	48.6	73.0





#56

Ethyl methacrylate

Concen: 0.745 ug/l m

RT: 9.129 min Scan# 1317

Delta R.T. 0.013 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

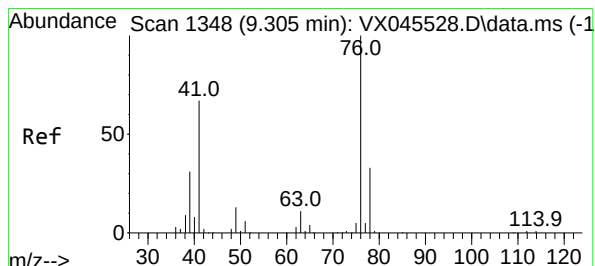
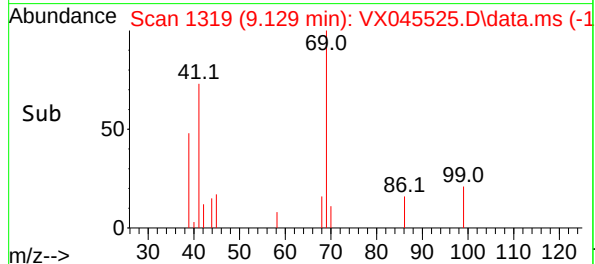
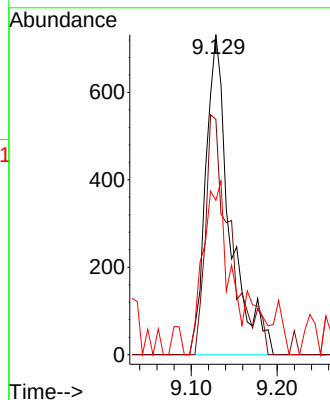
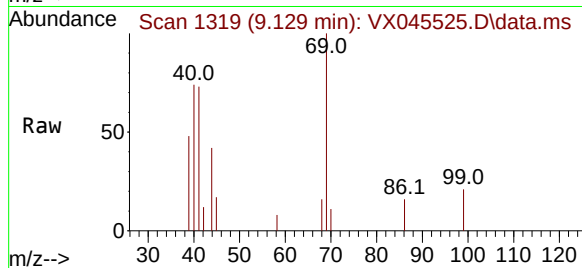
VSTDICC001

Tgt Ion:	69	Resp:	142
Ion	Ratio	Lower	Upper
69	100		
41	77.3	61.3	91.9
39	56.9	40.2	60.2

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#57

1,3-Dichloropropane

Concen: 0.904 ug/l

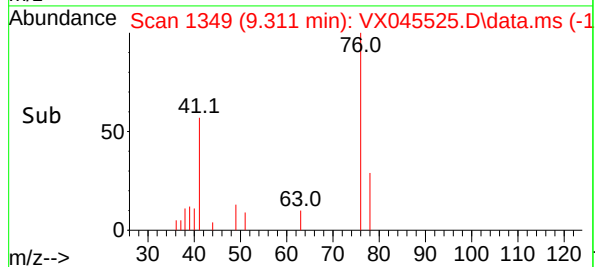
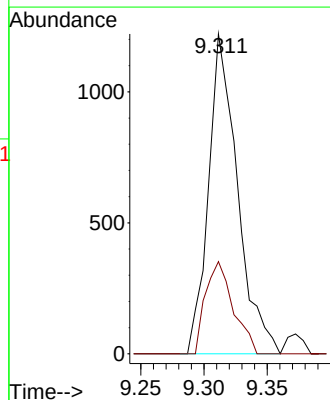
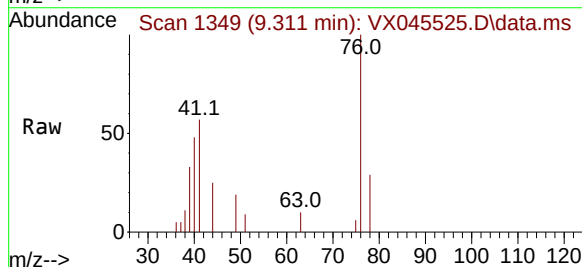
RT: 9.311 min Scan# 1349

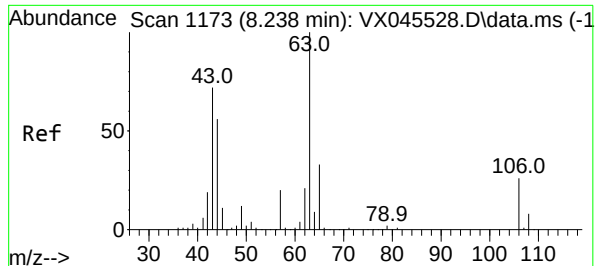
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	76	Resp:	1946
Ion	Ratio	Lower	Upper
76	100		
78	27.5	26.0	39.0





#58

2-Chloroethyl Vinyl ether

Concen: 4.008 ug/l

RT: 8.245 min Scan# 1173

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 63 Resp: 3880

Ion Ratio Lower Upper

63 100

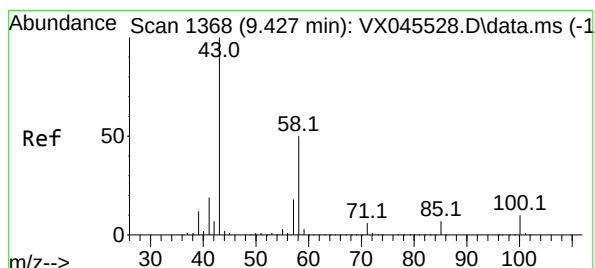
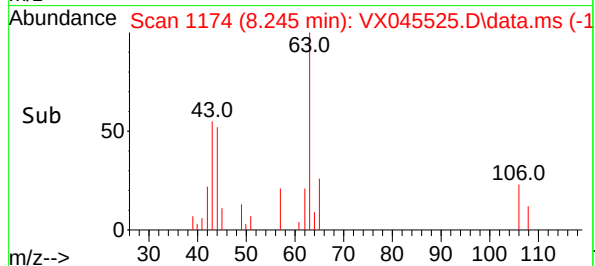
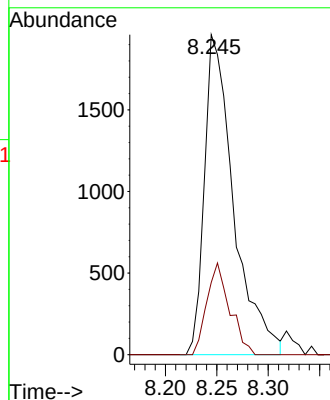
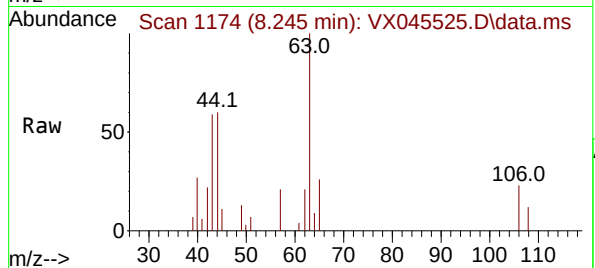
106 22.6 21.0 31.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#59

2-Hexanone

Concen: 4.040 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.012 min

Lab File: VX045525.D

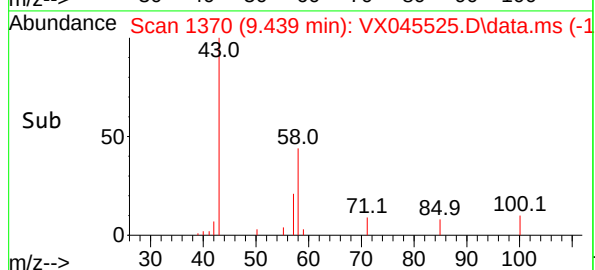
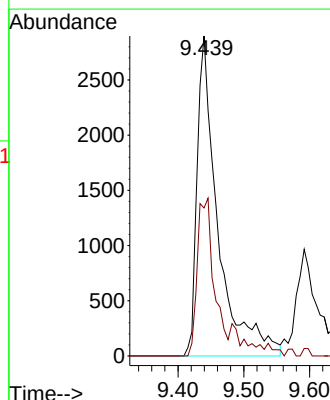
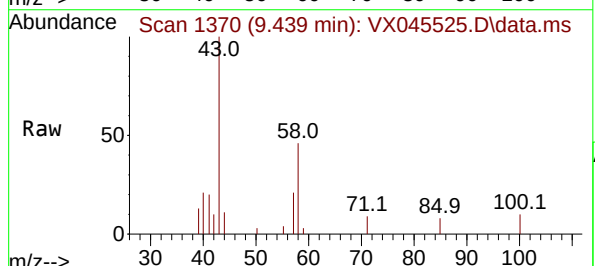
Acq: 01 Apr 2025 17:06

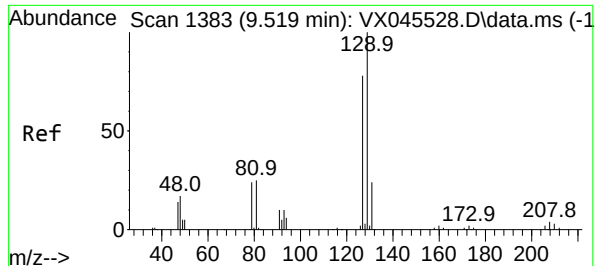
Tgt Ion: 43 Resp: 6360

Ion Ratio Lower Upper

43 100

58 39.5 24.9 74.6





#60

Dibromochloromethane

Concen: 0.814 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:129 Resp: 109

Ion Ratio Lower Upper

129 100

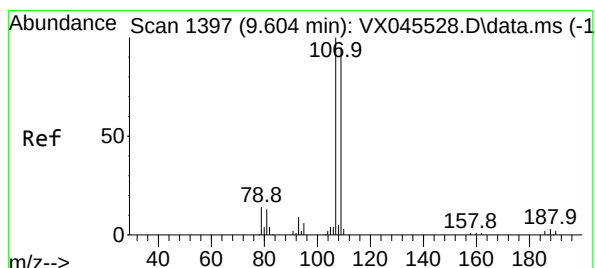
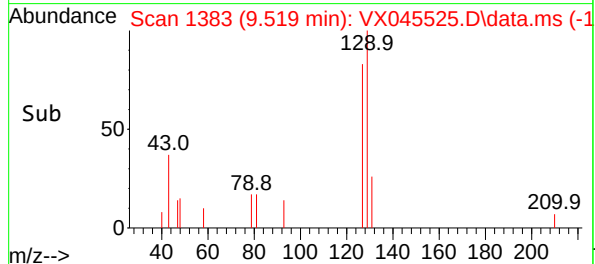
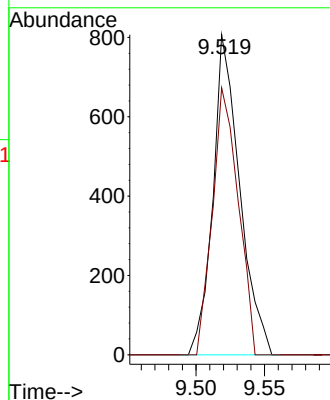
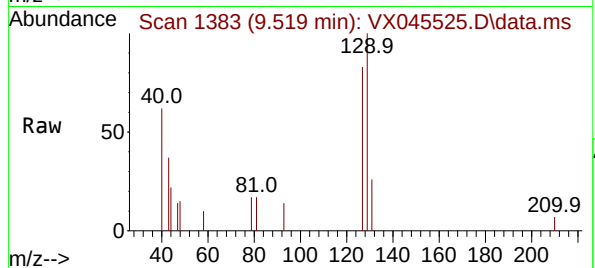
127 80.0 39.4 118.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#61

1,2-Dibromoethane

Concen: 0.825 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.006 min

Lab File: VX045525.D

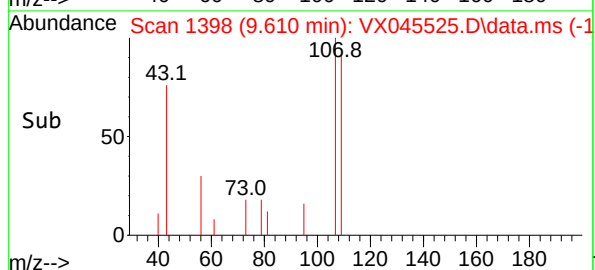
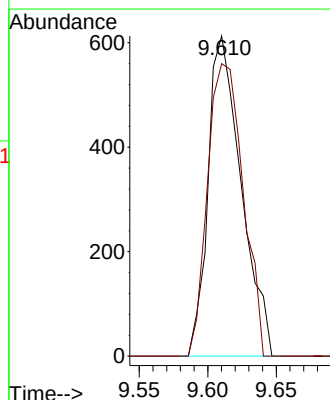
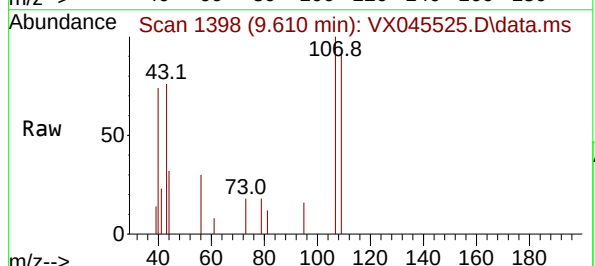
Acq: 01 Apr 2025 17:06

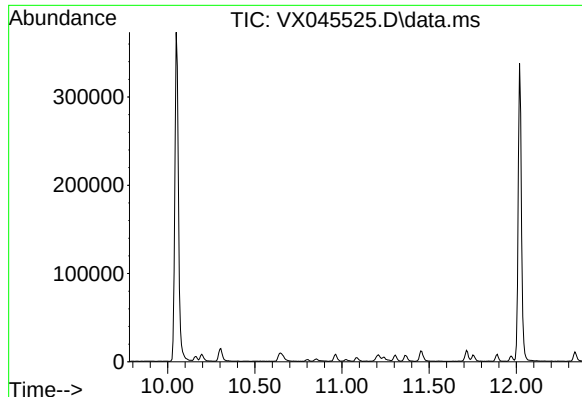
Tgt Ion:107 Resp: 1032

Ion Ratio Lower Upper

107 100

109 98.1 75.7 113.5





#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

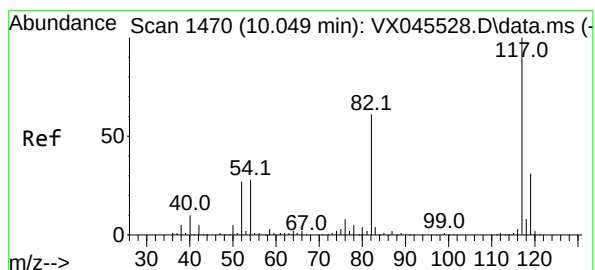
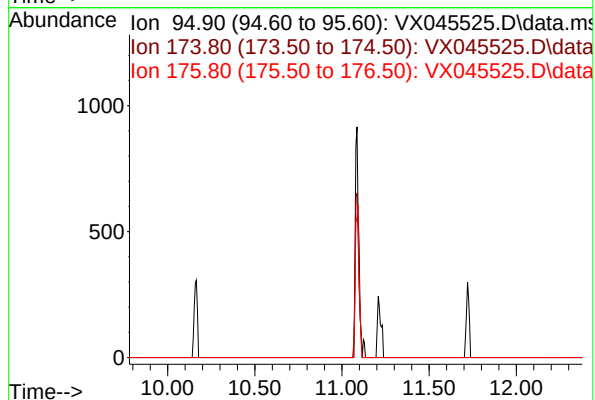
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 95
Sig Exp Ratio
95 100
174 67.9
176 65.7

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

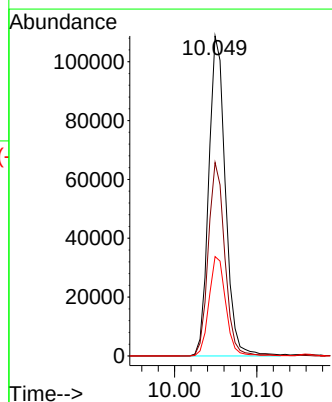
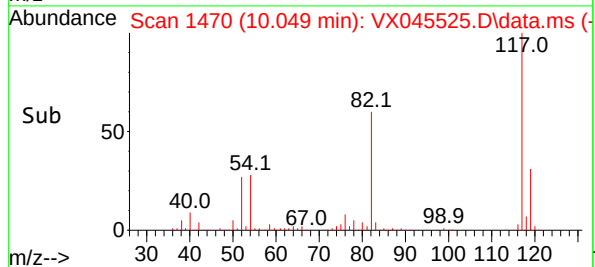
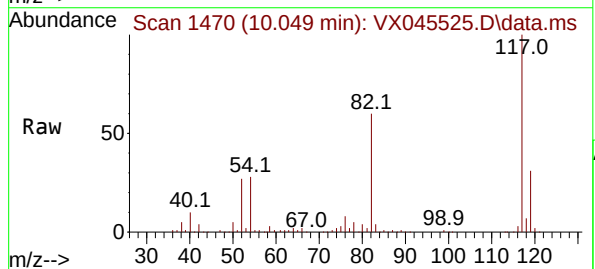
Manual Integrations
APPROVED

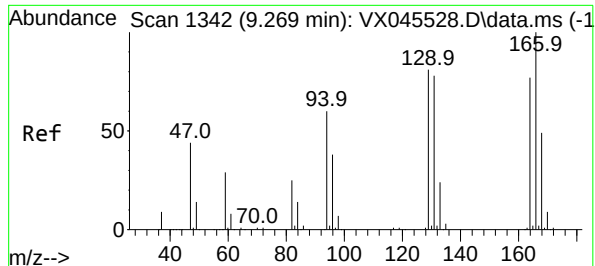
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

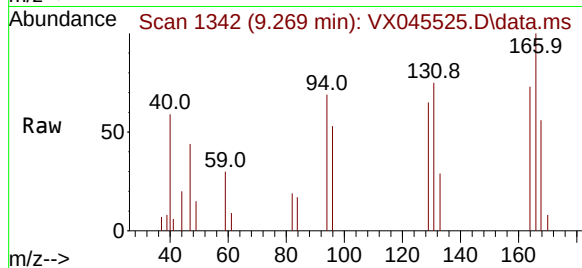
Tgt Ion:117 Resp: 153312
Ion Ratio Lower Upper
117 100
82 60.5 49.2 73.8
119 31.0 25.1 37.7





#64
Tetrachloroethene
Concen: 0.981 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

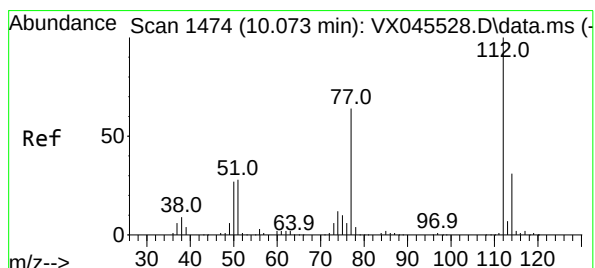
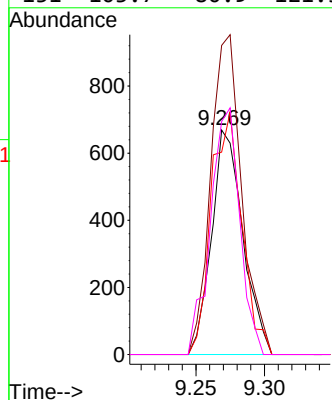
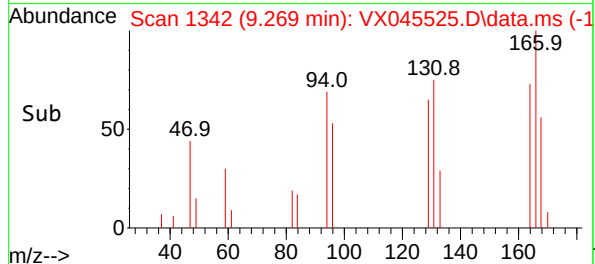
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



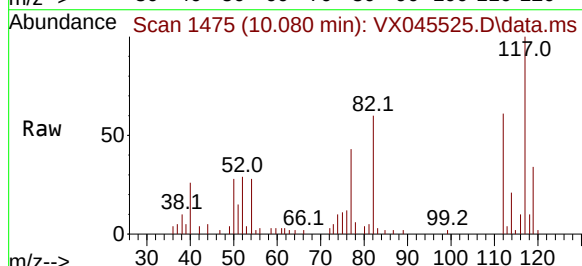
Tgt Ion:164 Resp: 1062
Ion Ratio Lower Upper
164 100
166 137.7 103.8 155.8
129 90.1 84.3 126.5
131 103.7 80.9 121.3

Manual Integrations
APPROVED

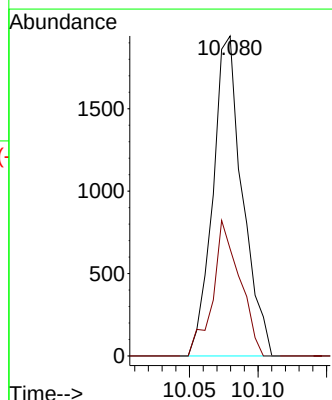
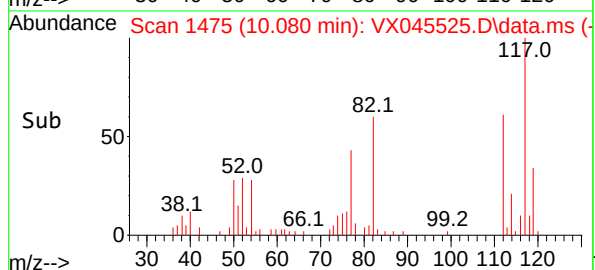
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

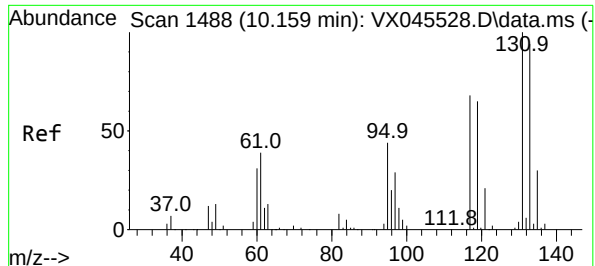


#65
Chlorobenzene
Concen: 0.890 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06



Tgt Ion:112 Resp: 2916
Ion Ratio Lower Upper
112 100
114 33.5 24.7 37.1





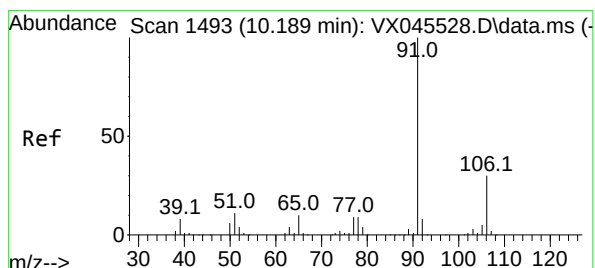
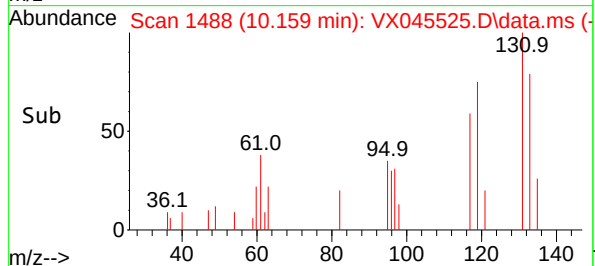
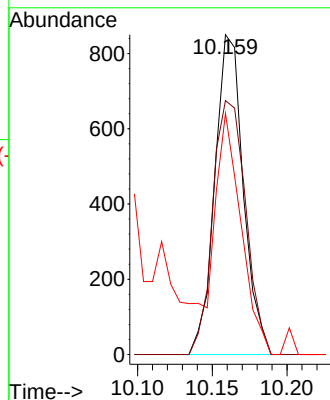
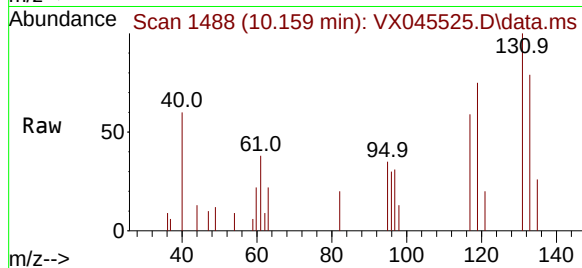
#66
1,1,1,2-Tetrachloroethane
Concen: 0.992 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion:131 Resp: 1128
Ion Ratio Lower Upper
131 100
133 91.6 47.5 142.5
119 0.0 32.9 98.6

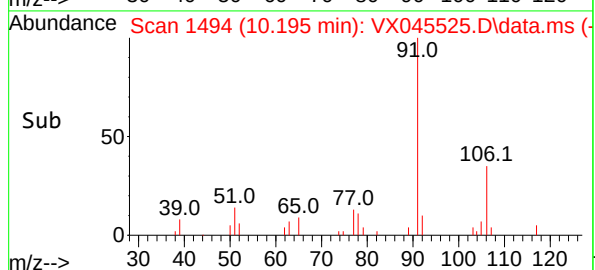
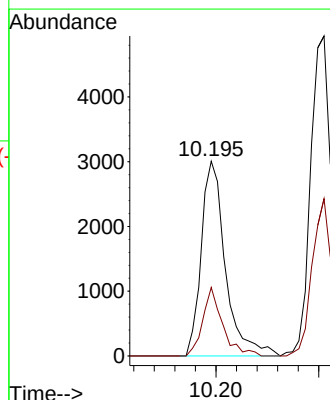
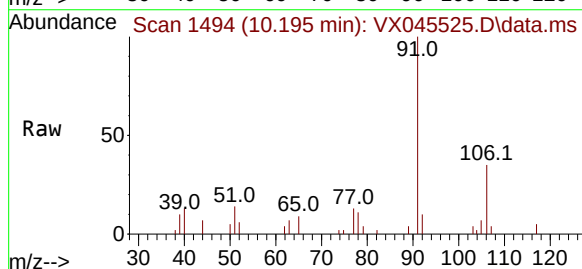
Manual Integrations
APPROVED

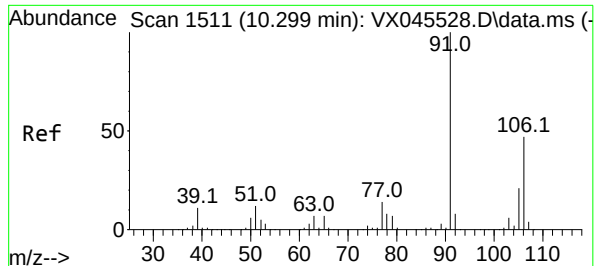
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#67
Ethyl Benzene
Concen: 0.840 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 91 Resp: 4930
Ion Ratio Lower Upper
91 100
106 35.2 23.7 35.5





#68

m/p-Xylenes

Concen: 1.708 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 364

Ion Ratio Lower Upper

106 100

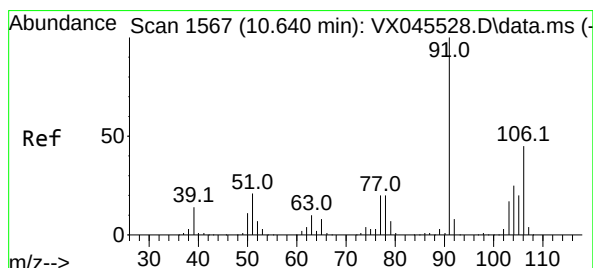
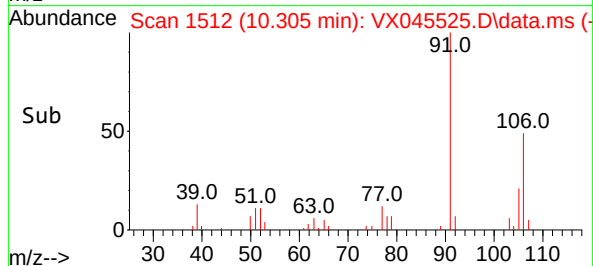
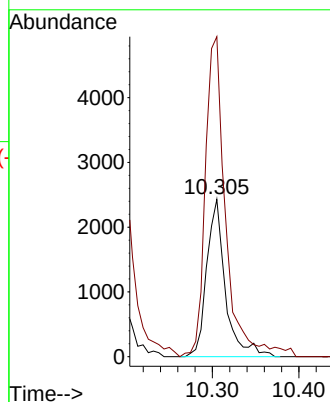
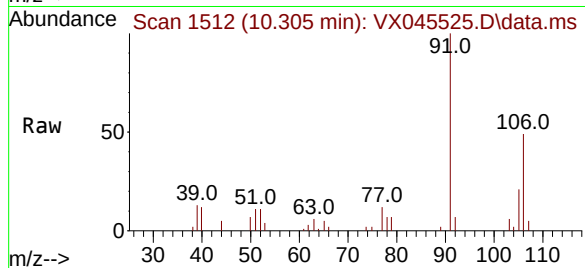
91 221.2 172.6 258.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#69

o-Xylene

Concen: 0.820 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045525.D

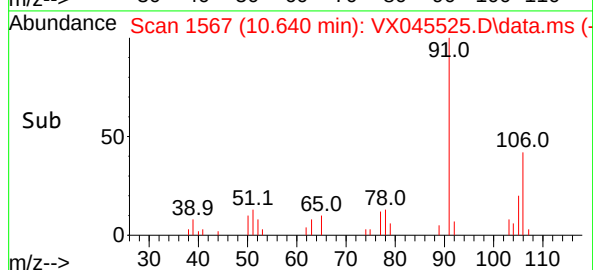
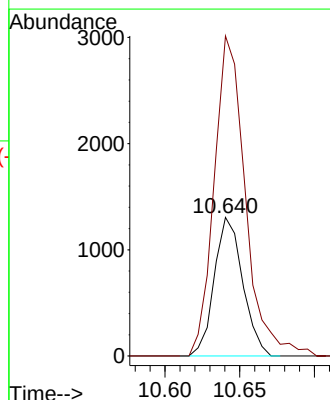
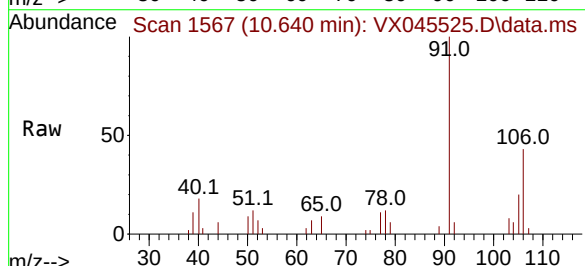
Acq: 01 Apr 2025 17:06

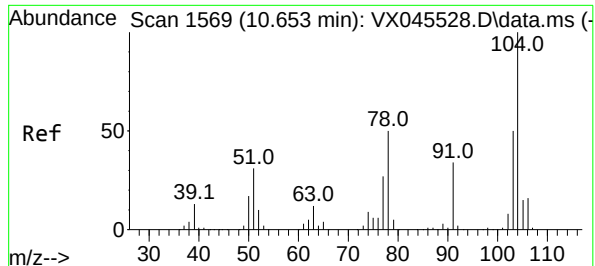
Tgt Ion:106 Resp: 1724

Ion Ratio Lower Upper

106 100

91 254.4 113.6 340.6





#70

Styrene

Concen: 0.793 ug/l

RT: 10.659 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

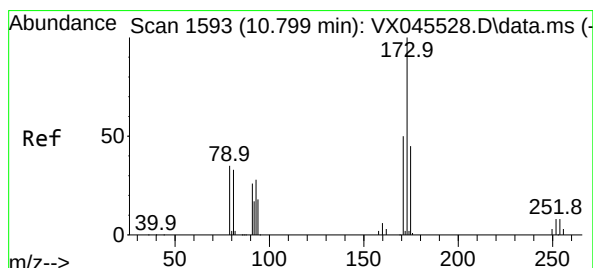
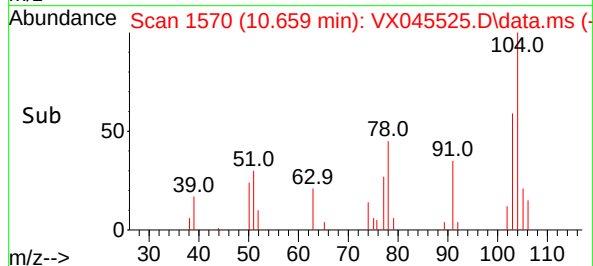
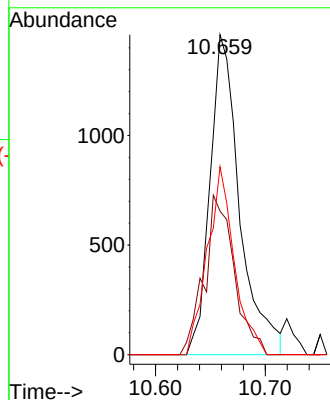
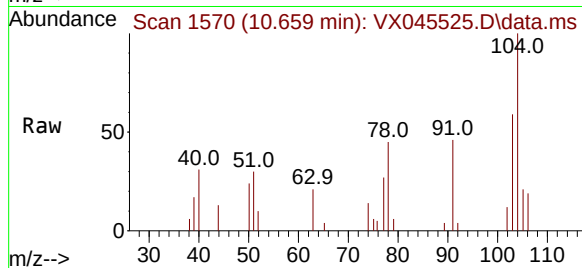
VSTDIC001

Tgt Ion	104	Resp	2750
Ion Ratio	Lower	Upper	
104	100		
78	50.1	45.4	68.2
103	53.2	43.8	65.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#71

Bromoform

Concen: 0.795 ug/l

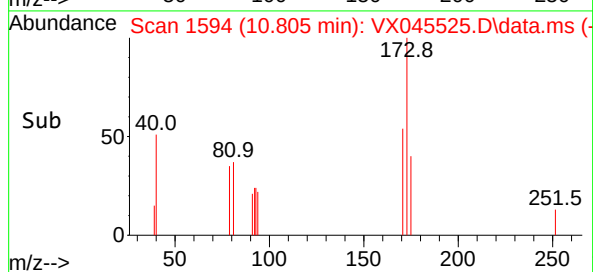
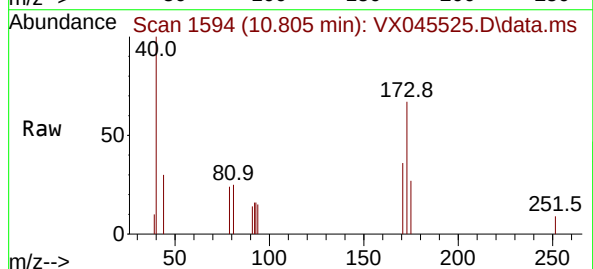
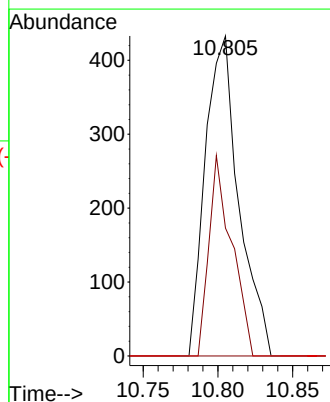
RT: 10.805 min Scan# 1594

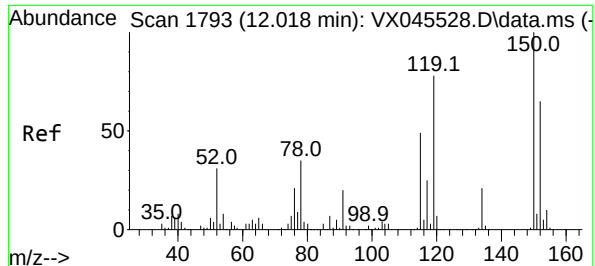
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion	173	Resp	675
Ion Ratio	Lower	Upper	
173	100		
175	42.7	23.4	70.2
254	0.0	0.0	0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:152 Resp: 61114

Ion Ratio Lower Upper

152 100

115 63.5 46.9 140.7

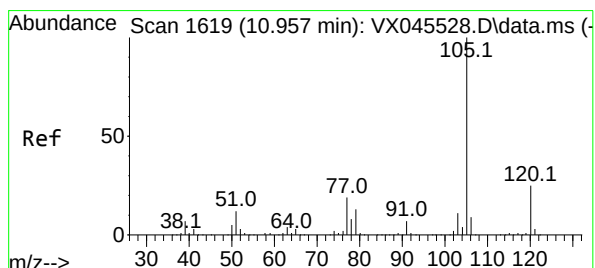
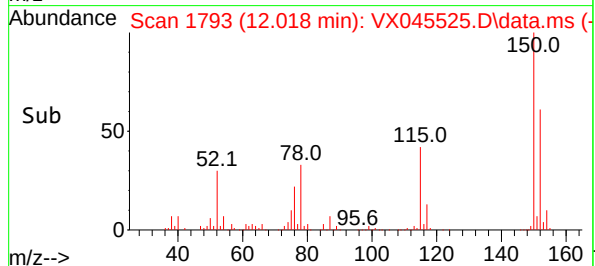
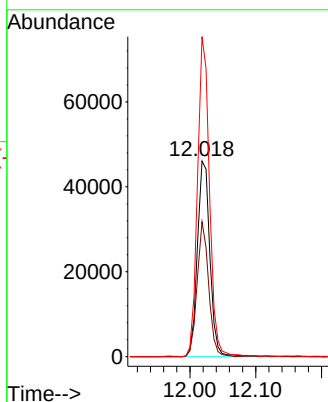
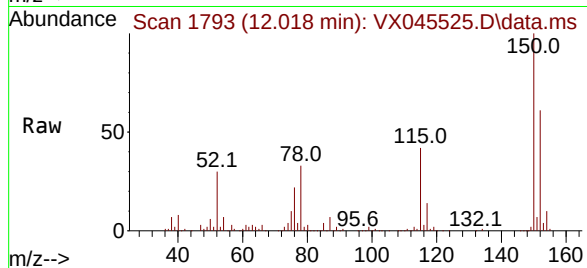
150 155.9 0.0 349.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#73

Isopropylbenzene

Concen: 0.894 ug/l

RT: 10.964 min Scan# 1620

Delta R.T. 0.006 min

Lab File: VX045525.D

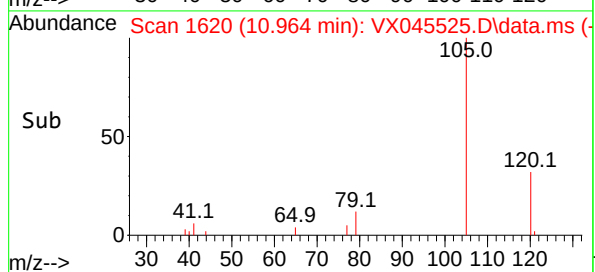
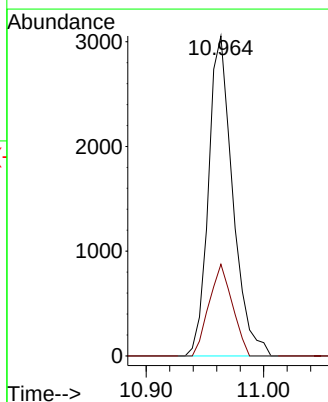
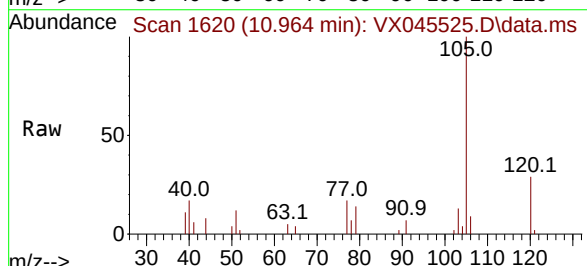
Acq: 01 Apr 2025 17:06

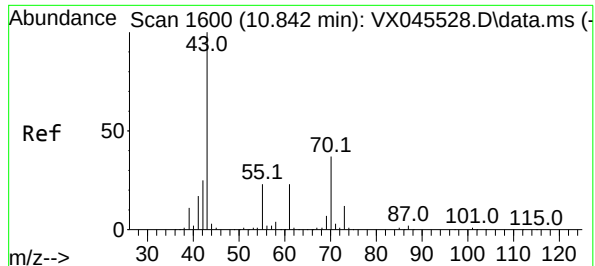
Tgt Ion:105 Resp: 4377

Ion Ratio Lower Upper

105 100

120 27.6 12.7 38.0





#74

N-amy1 acetate

Concen: 0.752 ug/l

RT: 10.854 min Scan# 1602

Delta R.T. 0.012 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 43 Resp: 1762

Ion Ratio Lower Upper

43 100

70 34.4 30.1 45.1

55 17.3 18.3 27.5

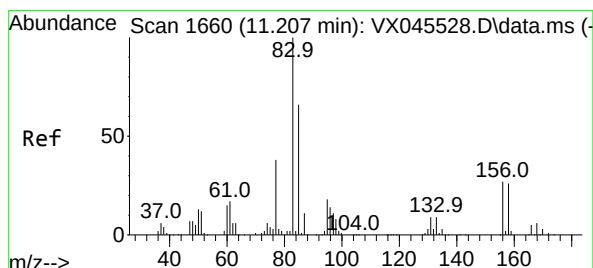
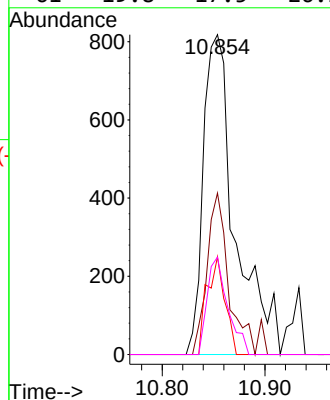
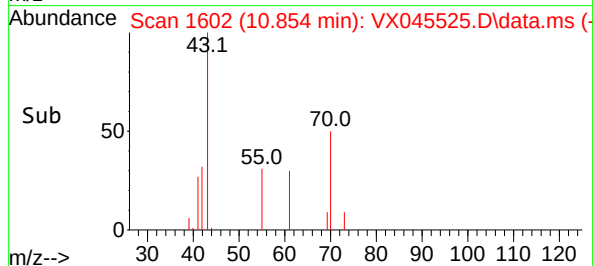
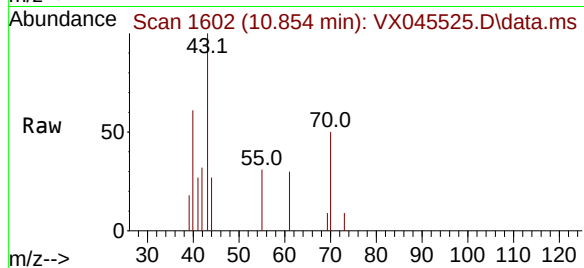
61 19.8 17.5 26.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#75

1,1,2,2-Tetrachloroethane

Concen: 1.036 ug/l

RT: 11.214 min Scan# 1661

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

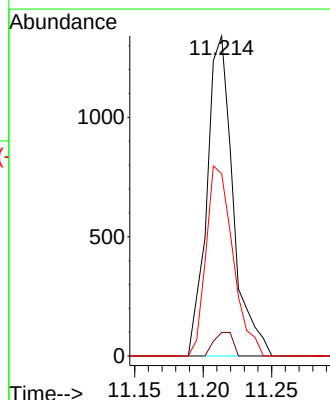
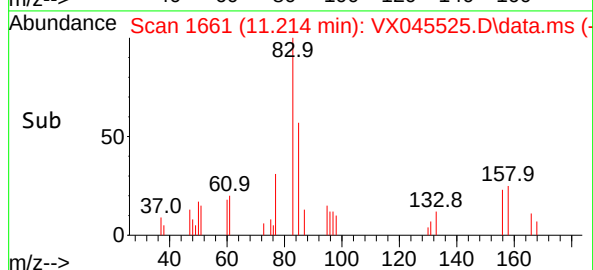
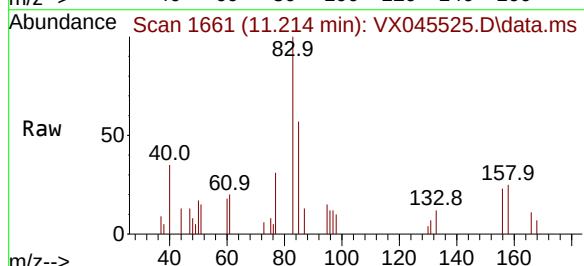
Tgt Ion: 83 Resp: 1781

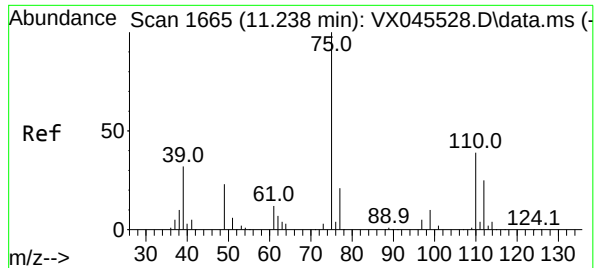
Ion Ratio Lower Upper

83 100

131 5.3 4.7 14.1

85 61.1 32.4 97.2





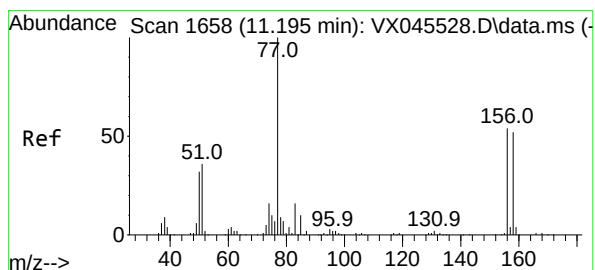
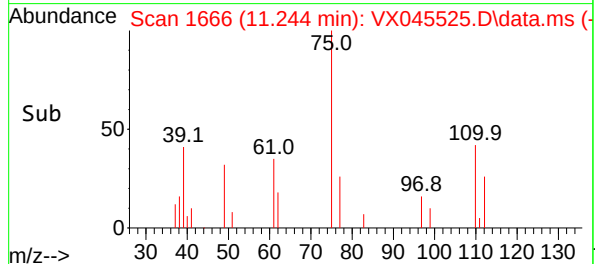
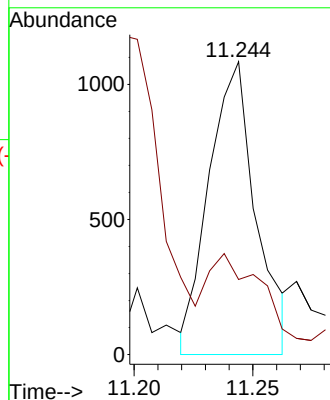
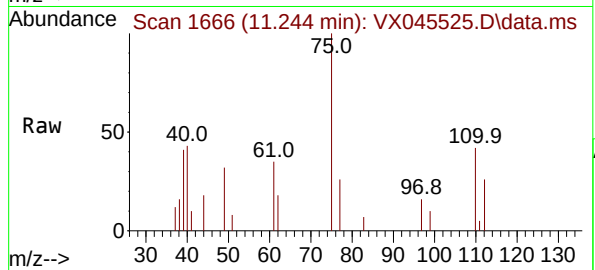
#76
1,2,3-Trichloropropane
Concen: 1.002 ug/l m
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 75 Resp: 149
Ion Ratio Lower Upper
75 100
77 42.1 20.0 59.9

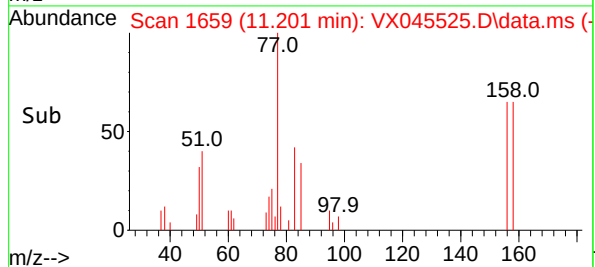
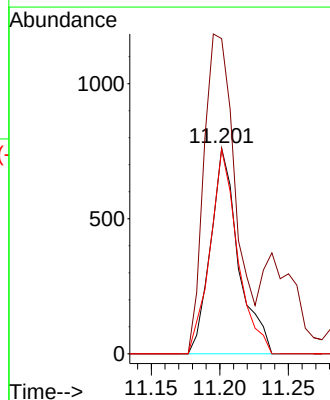
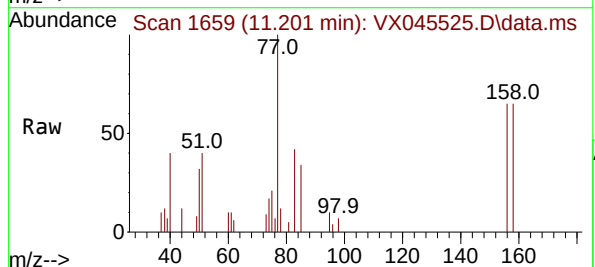
Manual Integrations
APPROVED

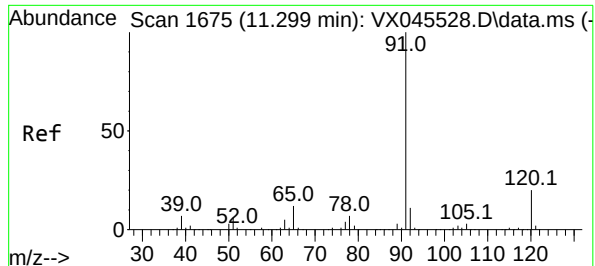
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#77
Bromobenzene
Concen: 0.948 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:156 Resp: 1072
Ion Ratio Lower Upper
156 100
77 176.5 92.6 277.8
158 98.4 48.1 144.4





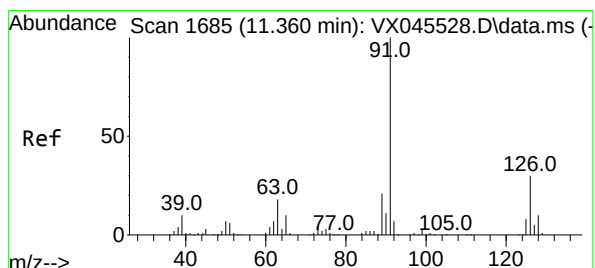
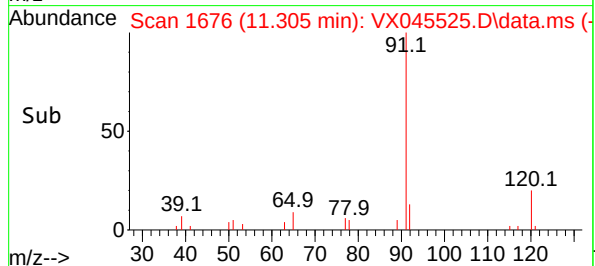
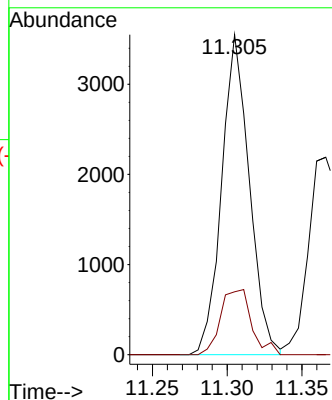
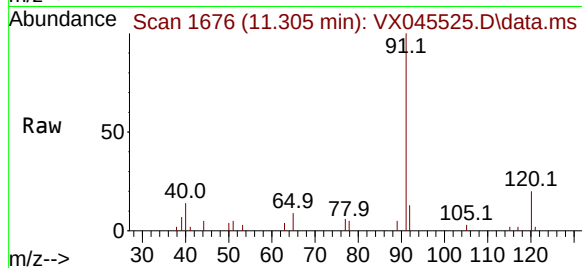
#78
n-propylbenzene
Concen: 0.809 ug/l
RT: 11.305 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 91 Resp: 4564
Ion Ratio Lower Upper
91 100
120 22.8 10.8 32.3

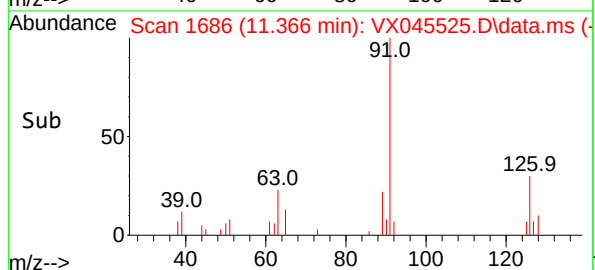
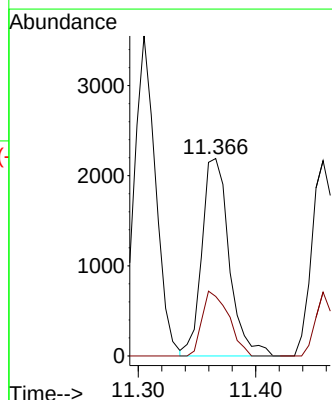
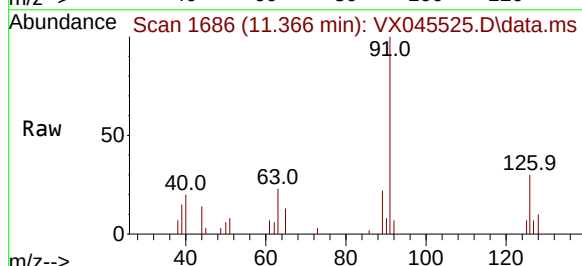
Manual Integrations
APPROVED

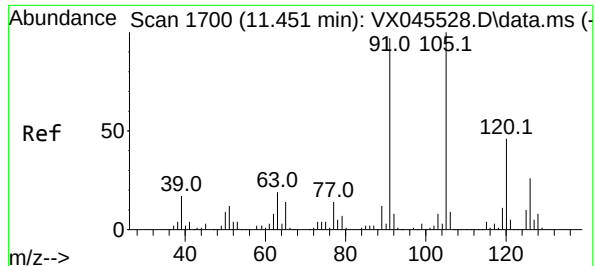
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#79
2-Chlorotoluene
Concen: 0.981 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

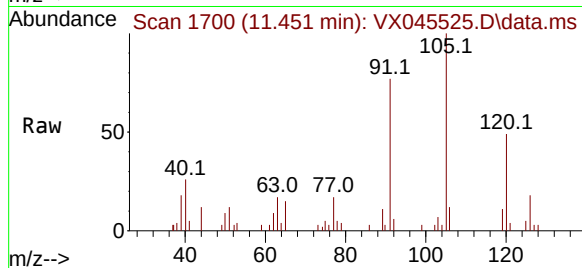
Tgt Ion: 91 Resp: 3537
Ion Ratio Lower Upper
91 100
126 31.8 15.8 47.4





#80
1,3,5-Trimethylbenzene
Concen: 0.885 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

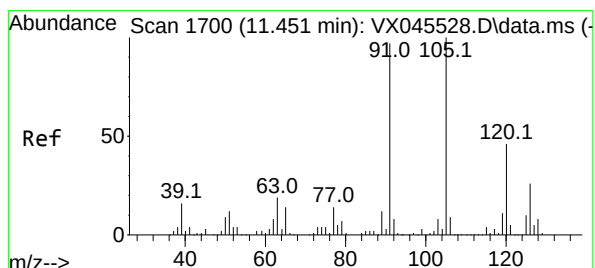
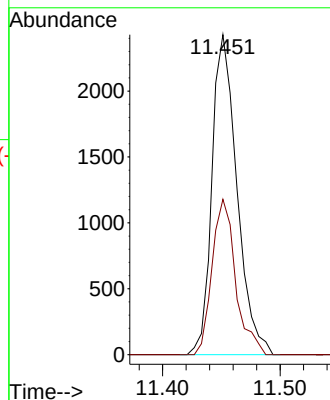
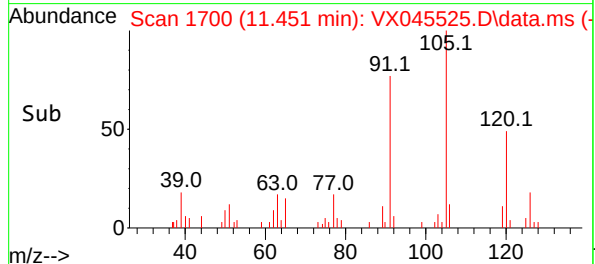
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



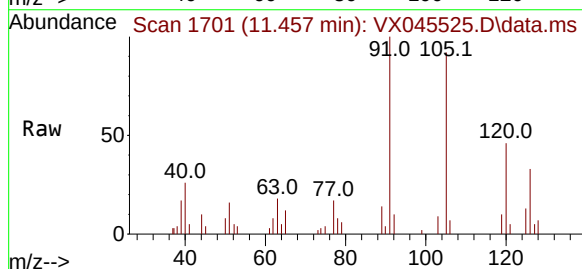
Tgt Ion: 105 Resp: 3582
Ion Ratio Lower Upper
105 100
120 45.8 23.0 69.0

Manual Integrations
APPROVED

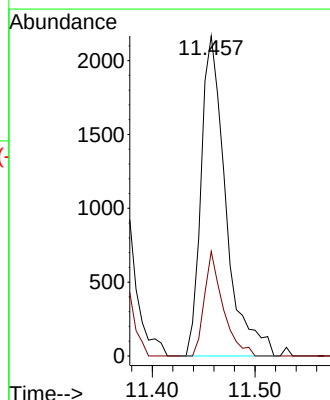
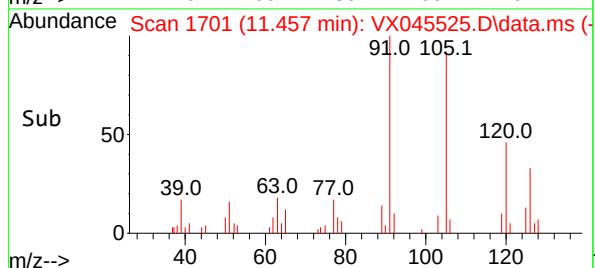
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

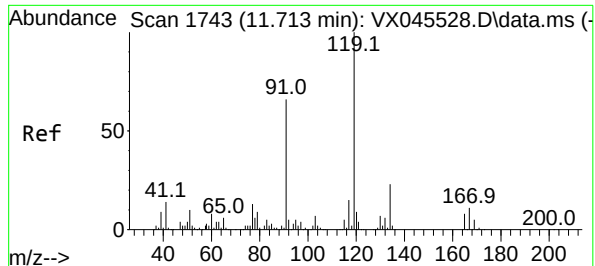


#82
4-Chlorotoluene
Concen: 0.900 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06



Tgt Ion: 91 Resp: 3619
Ion Ratio Lower Upper
91 100
126 24.7 13.3 39.9





#83

tert-Butylbenzene

Concen: 0.883 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

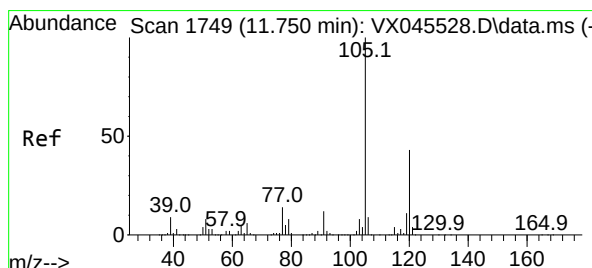
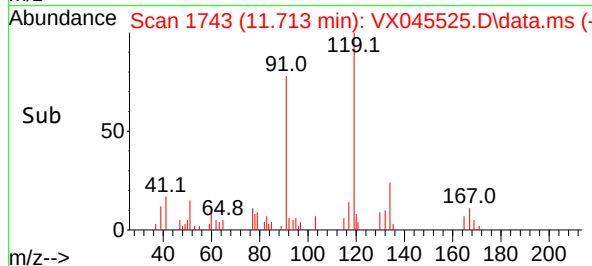
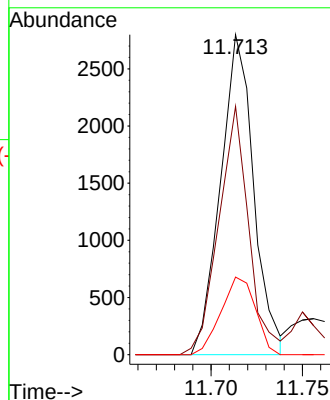
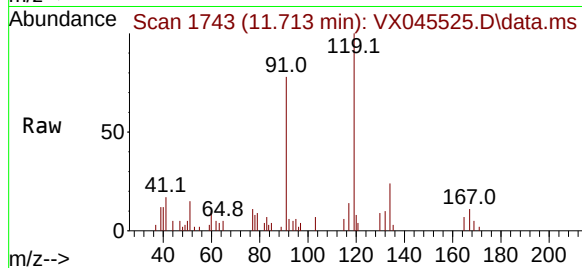
VSTDIC001

Tgt Ion:	119	Resp:	353
Ion	Ratio	Lower	Upper
119	100		
91	70.3	32.4	97.2
134	25.2	11.5	34.5

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#84

1,2,4-Trimethylbenzene

Concen: 0.874 ug/l

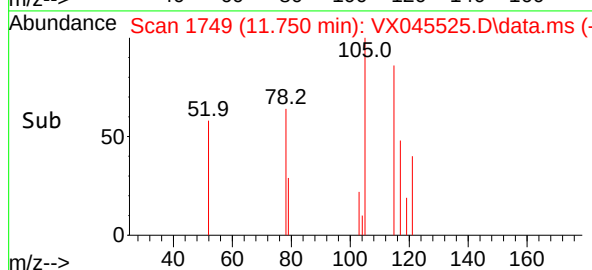
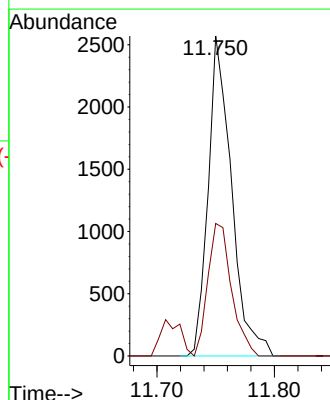
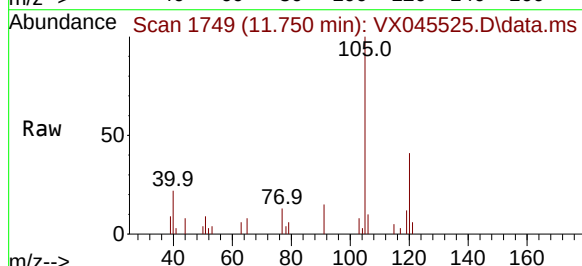
RT: 11.750 min Scan# 1749

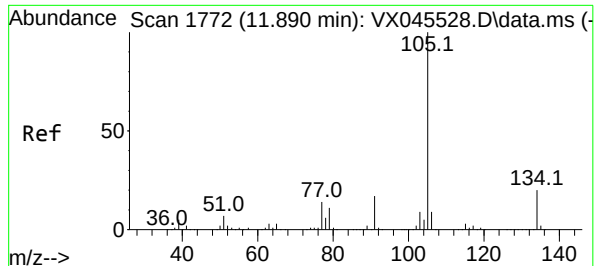
Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:	105	Resp:	3552
Ion	Ratio	Lower	Upper
105	100		
120	42.0	21.4	64.3





#85

sec-Butylbenzene

Concen: 0.793 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

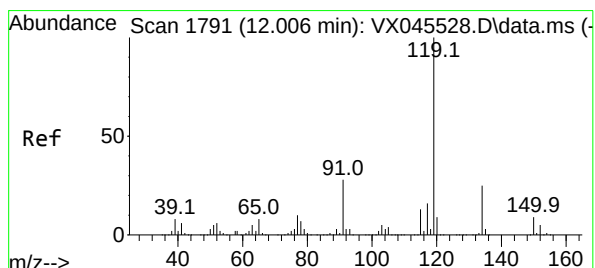
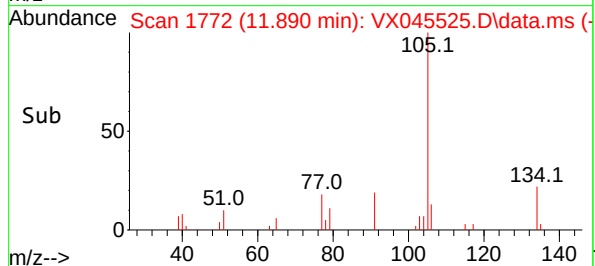
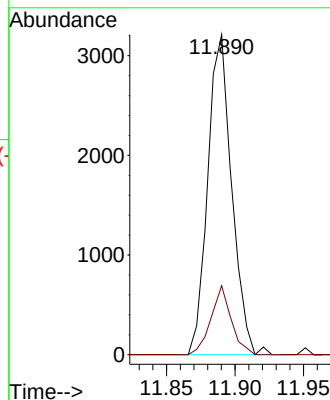
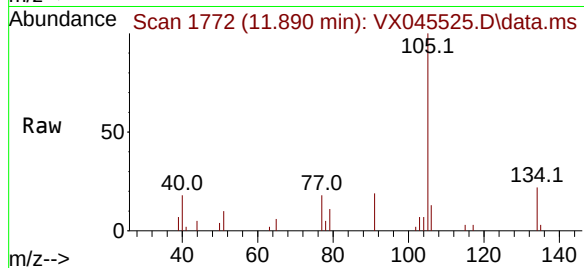
VSTDICC001

Tgt Ion:105 Resp: 3908
Ion Ratio Lower Upper
105 100
134 18.3 9.6 28.6

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#86

p-Isopropyltoluene

Concen: 0.824 ug/l

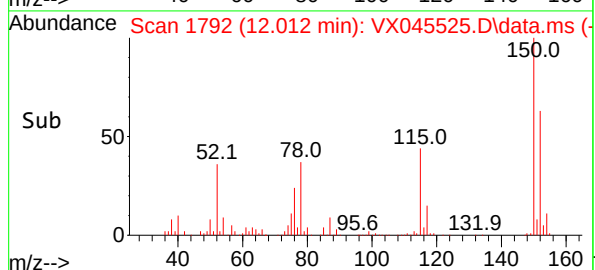
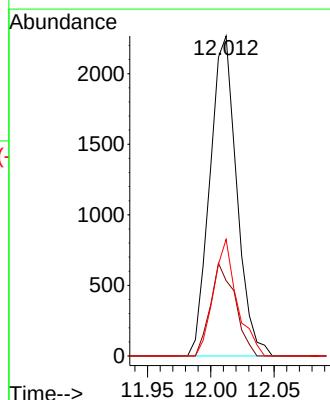
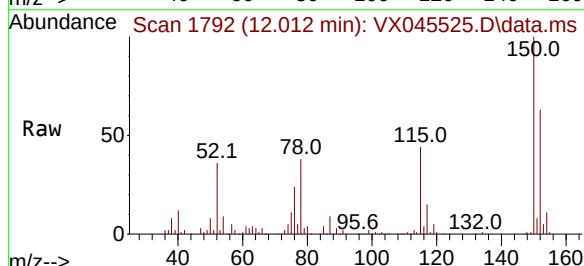
RT: 12.012 min Scan# 1792

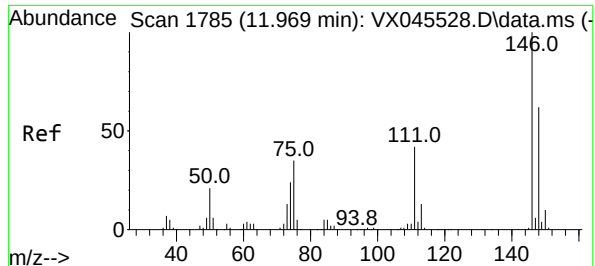
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:119 Resp: 3342
Ion Ratio Lower Upper
119 100
134 26.6 12.6 37.8
91 31.9 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 0.984 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

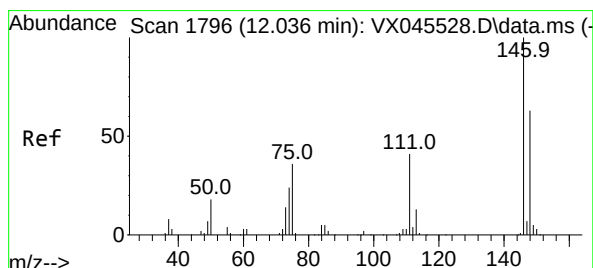
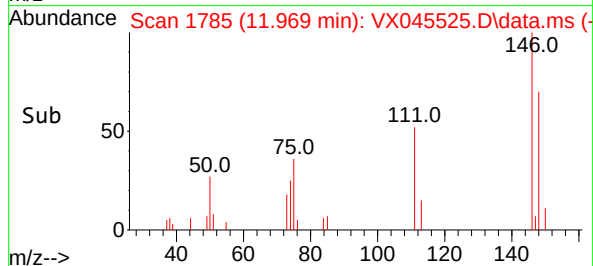
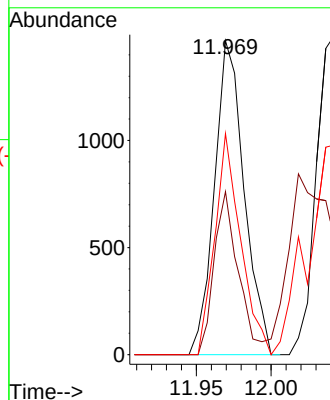
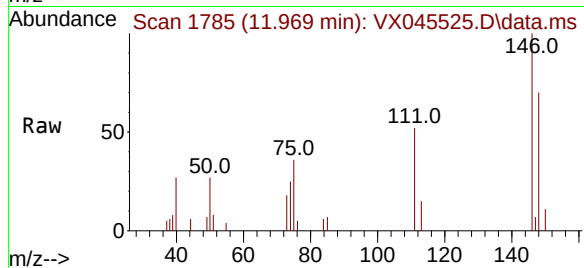
VSTDIC001

Tgt Ion:146	Resp:	2020
Ion Ratio	Lower	Upper
146	100	
111	42.2	22.2 66.6
148	61.2	31.9 95.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 0.978 ug/l m

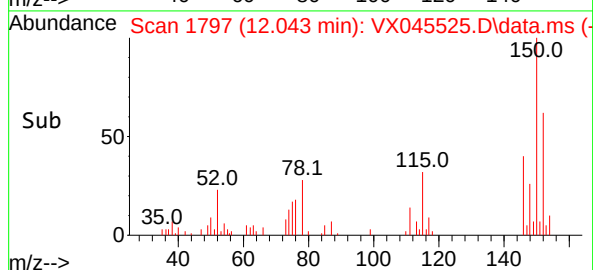
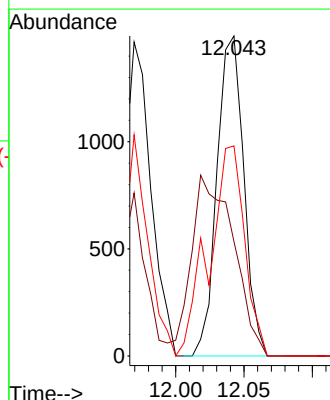
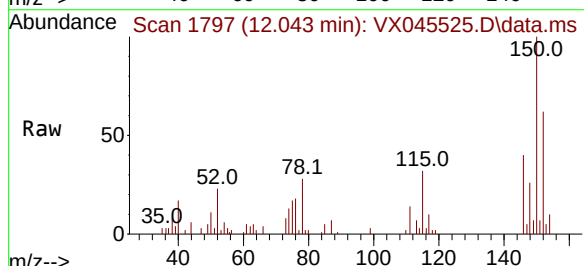
RT: 12.043 min Scan# 1797

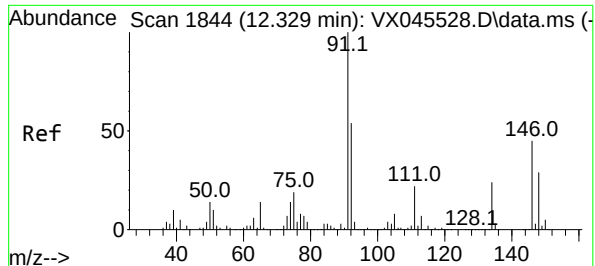
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:146	Resp:	2042
Ion Ratio	Lower	Upper
146	100	
111	41.8	20.9 62.8
148	60.7	31.5 94.5





#89

n-Butylbenzene

Concen: 0.735 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

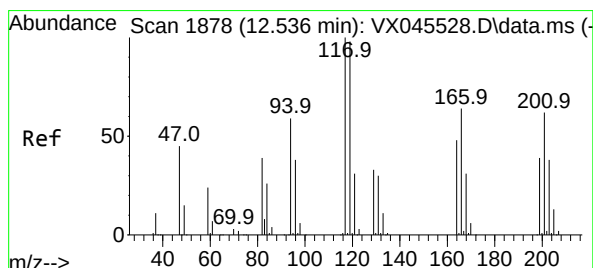
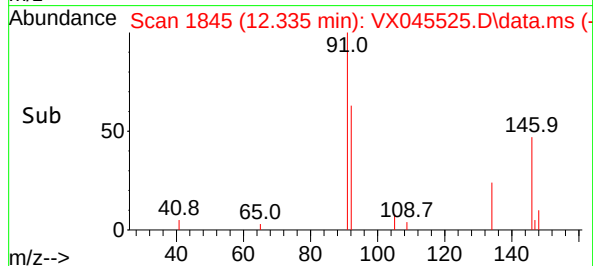
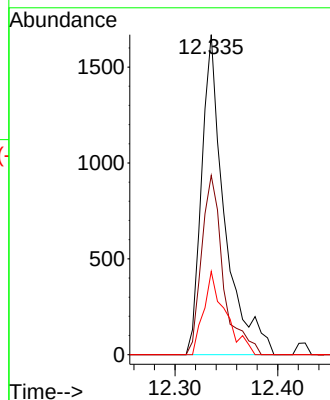
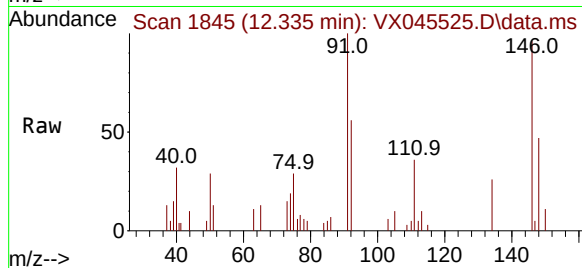
VSTDIC001

Tgt Ion:	91	Resp:	258
Ion	Ratio	Lower	Upper
91	100		
92	53.2	26.9	80.6
134	24.8	11.9	35.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 0.863 ug/l

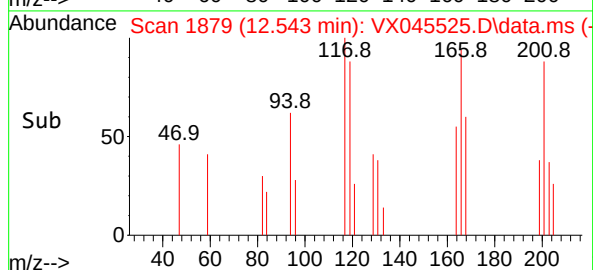
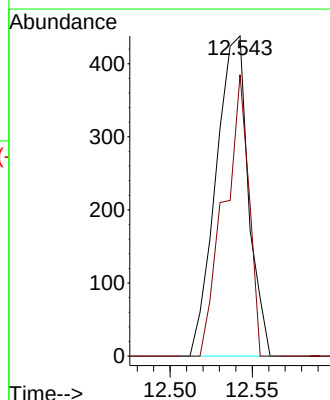
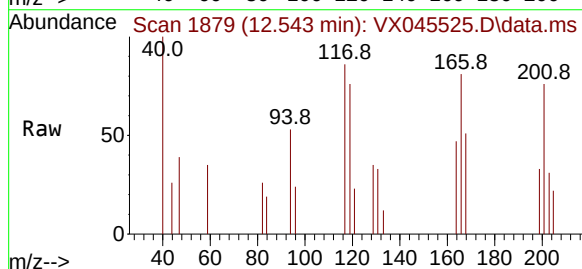
RT: 12.543 min Scan# 1879

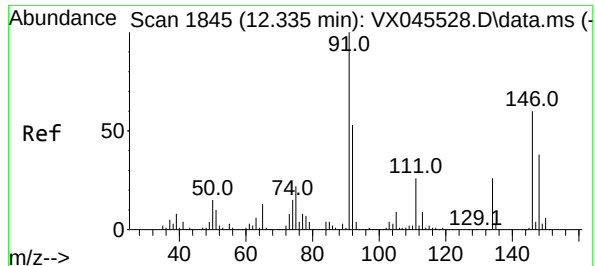
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

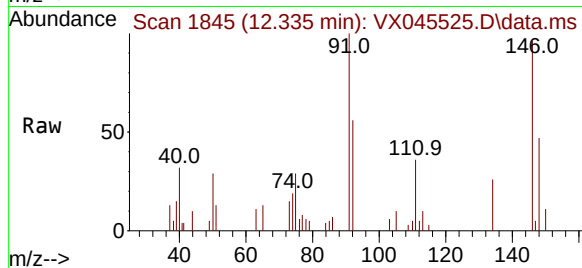
Tgt Ion:	117	Resp:	602
Ion	Ratio	Lower	Upper
117	100		
201	66.3	31.2	93.6





#91
1,2-Dichlorobenzene
Concen: 0.981 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

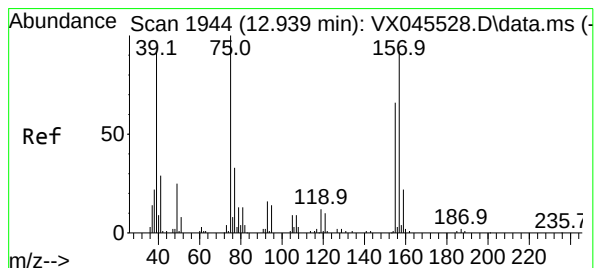
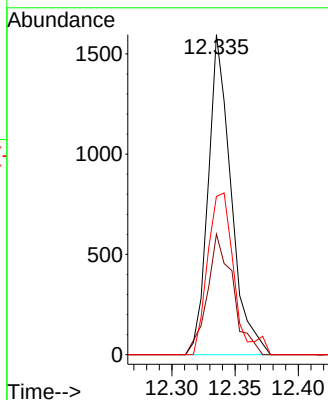
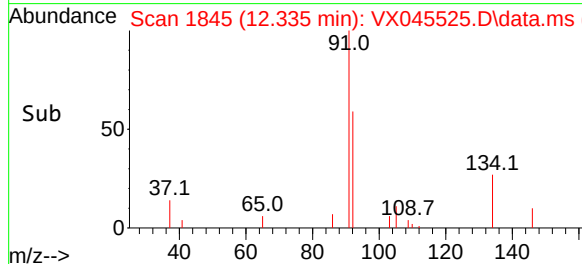
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 146 Resp: 2009
Ion Ratio Lower Upper
146 100
111 42.0 22.9 68.8
148 58.2 31.9 95.5

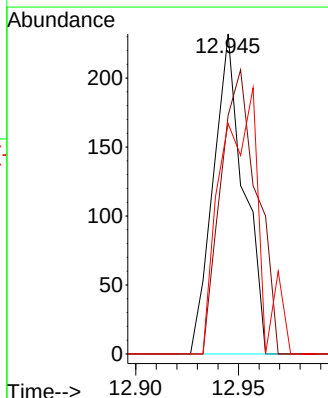
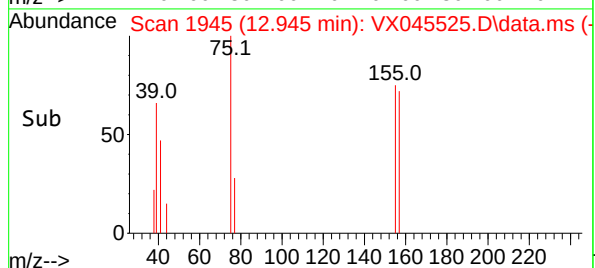
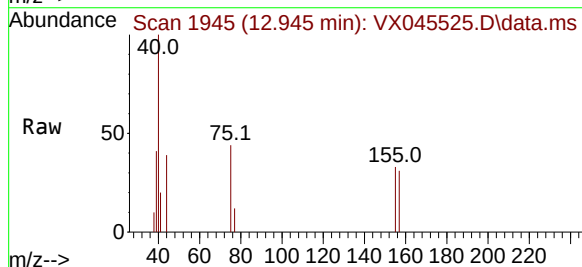
Manual Integrations
APPROVED

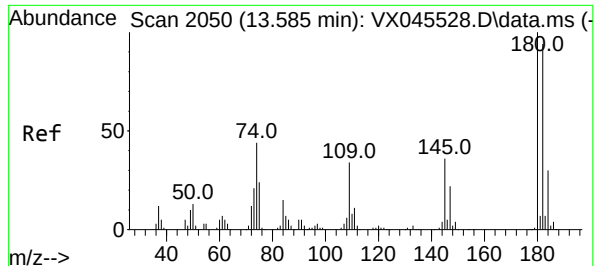
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.665 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion: 75 Resp: 239
Ion Ratio Lower Upper
75 100
155 105.4 34.9 104.7#
157 103.8 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 0.779 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

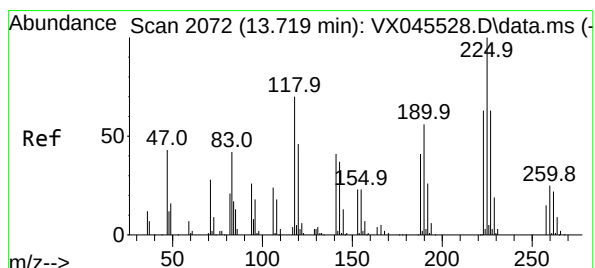
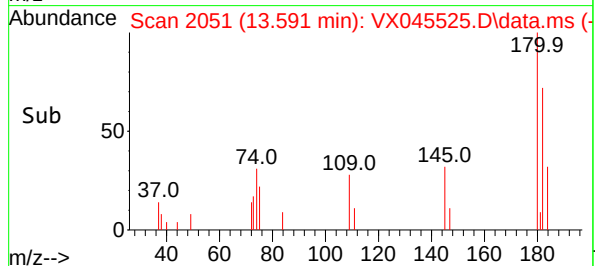
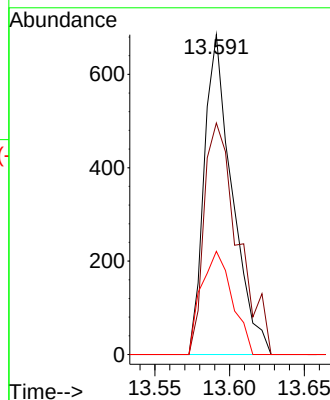
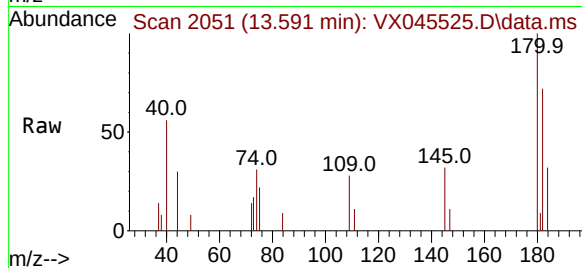
Tgt Ion:180	Resp:	88
Ion Ratio	Lower	Upper
180	100	
182	87.6	47.9 143.6
145	35.8	17.9 53.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#94

Hexachlorobutadiene

Concen: 0.943 ug/l

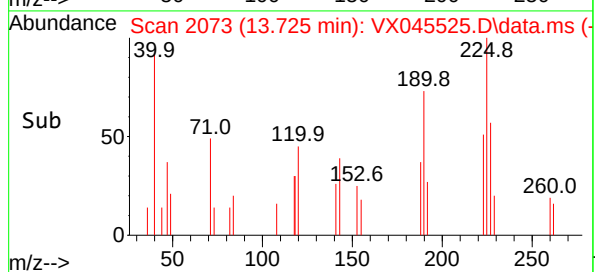
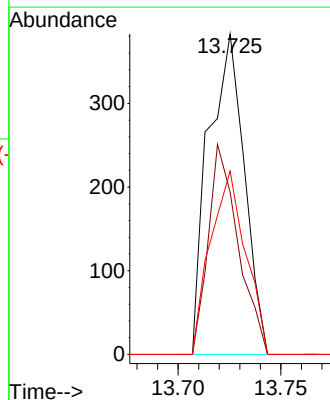
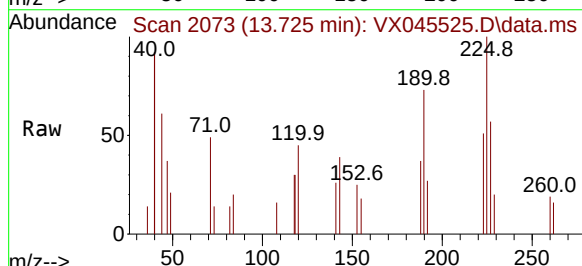
RT: 13.725 min Scan# 2073

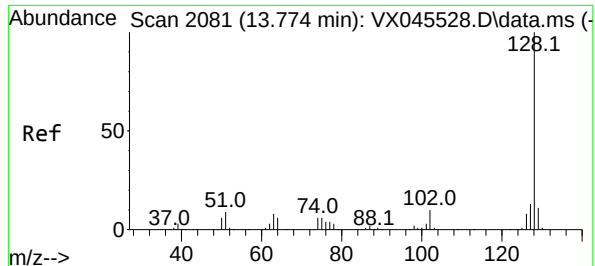
Delta R.T. 0.006 min

Lab File: VX045525.D

Acq: 01 Apr 2025 17:06

Tgt Ion:225	Resp:	463
Ion Ratio	Lower	Upper
225	100	
223	54.9	31.1 93.3
227	56.4	32.2 96.6





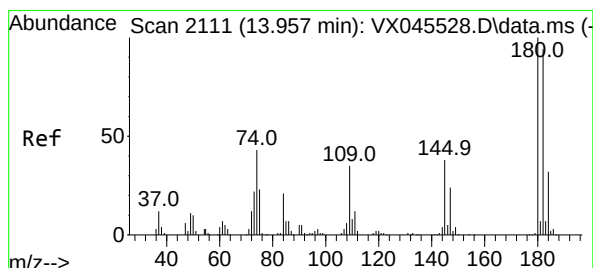
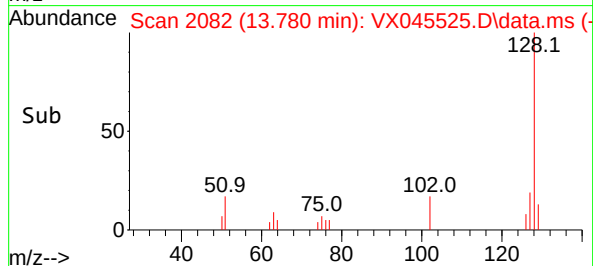
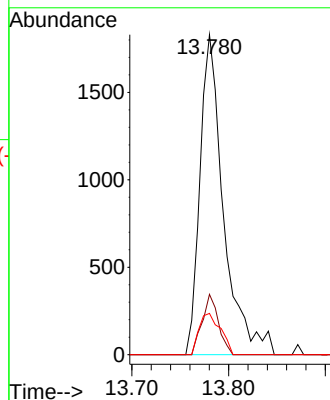
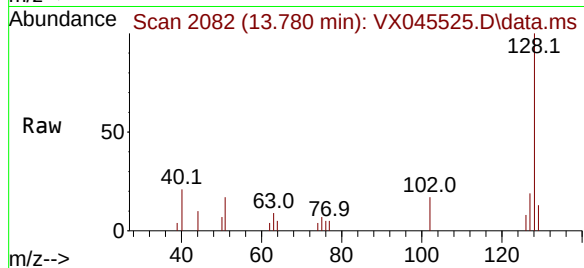
#95
Naphthalene
Concen: 0.733 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:128 Resp: 3109
Ion Ratio Lower Upper
128 100
127 13.0 10.3 15.5
129 11.7 8.6 12.8

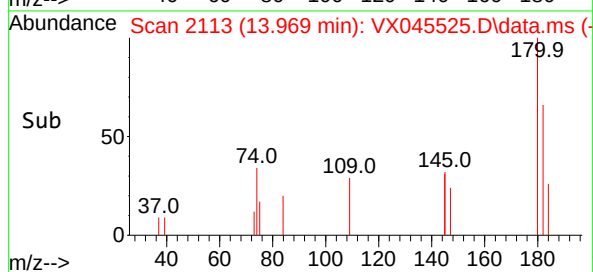
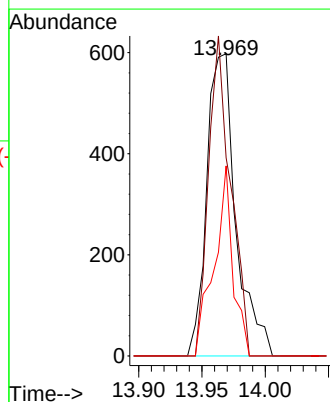
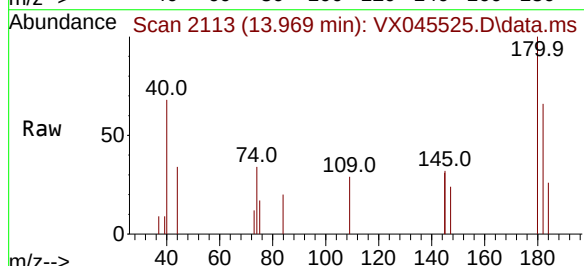
Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 0.801 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.012 min
Lab File: VX045525.D
Acq: 01 Apr 2025 17:06

Tgt Ion:180 Resp: 956
Ion Ratio Lower Upper
180 100
182 80.5 47.3 141.8
145 40.4 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045526.D
 Acq On : 01 Apr 2025 17:29
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	93234	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	166137	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	143937	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	63909	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	8969	5.260	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	10.520%#		
35) Dibromofluoromethane	5.391	113	6181	5.244	ug/l	0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.480%#		
50) Toluene-d8	8.647	98	20890	5.077	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	10.160%#		
62) 4-Bromofluorobenzene	11.079	95	6867	4.582	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	9.160%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6482	4.649	ug/l	91
3) Chloromethane	1.307	50	6846	4.779	ug/l	99
4) Vinyl Chloride	1.374	62	6169	4.706	ug/l	100
5) Bromomethane	1.593	94	3185	5.124	ug/l	90
6) Chloroethane	1.666	64	3703	5.324	ug/l	96
7) Trichlorofluoromethane	1.874	101	9316	4.766	ug/l	94
8) Diethyl Ether	2.136	74	3171	4.832	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.325	101	5589	4.879	ug/l	99
10) Methyl Iodide	2.447	142	6574	4.601	ug/l	97
11) Tert butyl alcohol	2.983	59	5186	22.633	ug/l	99
12) 1,1-Dichloroethene	2.313	96	5485	4.901	ug/l	90
13) Acrolein	2.239	56	8202	25.993	ug/l	97
14) Allyl chloride	2.654	41	9960	4.690	ug/l	95
15) Acrylonitrile	3.069	53	17811	24.624	ug/l	97
16) Acetone	2.386	43	17188	24.550	ug/l	99
17) Carbon Disulfide	2.502	76	12376	4.477	ug/l #	93
18) Methyl Acetate	2.703	43	8042	4.989	ug/l	96
19) Methyl tert-butyl Ether	3.111	73	18314	4.677	ug/l	100
20) Methylene Chloride	2.782	84	6481	4.945	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	5534	4.840	ug/l	95
22) Diisopropyl ether	3.764	45	19765	4.725	ug/l #	82
23) Vinyl Acetate	3.721	43	78907	21.831	ug/l	98
24) 1,1-Dichloroethane	3.605	63	11562	4.887	ug/l	98
25) 2-Butanone	4.574	43	25026	24.419	ug/l	99
26) 2,2-Dichloropropane	4.477	77	7054	4.615	ug/l	95
27) cis-1,2-Dichloroethene	4.483	96	6485	4.655	ug/l	95
28) Bromochloromethane	4.898	49	5666	4.956	ug/l	95
29) Tetrahydrofuran	5.013	42	15913	23.950	ug/l	100
30) Chloroform	5.087	83	12200	5.012	ug/l	99
31) Cyclohexane	5.465	56	9731	4.653	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	9811	4.763	ug/l	99
36) 1,1-Dichloropropene	5.690	75	7354	4.621	ug/l	98
37) Ethyl Acetate	4.721	43	9384	4.679	ug/l #	91
38) Carbon Tetrachloride	5.666	117	8264	4.804	ug/l	99
39) Methylcyclohexane	7.379	83	8757	4.489	ug/l	95
40) Benzene	6.038	78	23522	4.839	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045526.D
 Acq On : 01 Apr 2025 17:29
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Quant Time: Apr 02 02:51:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	4593	4.302	ug/l	92
42) 1,2-Dichloroethane	6.092	62	9713	4.838	ug/l	100
43) Isopropyl Acetate	6.348	43	13803	4.541	ug/l	97
44) Trichloroethene	7.129	130	5355	4.635	ug/l	99
45) 1,2-Dichloropropane	7.434	63	6060	4.997	ug/l	99
46) Dibromomethane	7.580	93	4767	5.120	ug/l	99
47) Bromodichloromethane	7.818	83	8619	4.636	ug/l #	97
48) Methyl methacrylate	7.696	41	6908	4.401	ug/l	98
49) 1,4-Dioxane	7.665	88	3205	112.864	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	48050	23.844	ug/l	97
52) Toluene	8.714	92	14391	4.893	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	6643	5.834	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	7873	4.506	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	5741	4.898	ug/l	90
56) Ethyl methacrylate	9.116	69	8012	4.417	ug/l	95
57) 1,3-Dichloropropane	9.305	76	10208	5.002	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	21382	23.302	ug/l	99
59) 2-Hexanone	9.433	43	35628	23.875	ug/l	99
60) Dibromochloromethane	9.519	129	5855	4.582	ug/l	99
61) 1,2-Dibromoethane	9.610	107	5837	4.920	ug/l	98
64) Tetrachloroethene	9.275	164	5373	5.287	ug/l	93
65) Chlorobenzene	10.073	112	15178	4.935	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	4945	4.631	ug/l	97
67) Ethyl Benzene	10.195	91	26180	4.753	ug/l	97
68) m/p-Xylenes	10.299	106	19268	9.617	ug/l	99
69) o-Xylene	10.640	106	9735	4.932	ug/l	99
70) Styrene	10.653	104	15017	4.610	ug/l	96
71) Bromoform	10.799	173	3634	4.558	ug/l #	95
73) Isopropylbenzene	10.964	105	24604	4.806	ug/l	100
74) N-amyl acetate	10.848	43	10750	4.390	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	9127	5.075	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	8032m	5.152	ug/l	
77) Bromobenzene	11.195	156	5927	5.011	ug/l	97
78) n-propylbenzene	11.305	91	27777	4.711	ug/l	98
79) 2-Chlorotoluene	11.360	91	18358	4.870	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	19936	4.710	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	1752	3.814	ug/l	85
82) 4-Chlorotoluene	11.457	91	20171	4.799	ug/l	99
83) tert-Butylbenzene	11.713	119	19962	4.763	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	19998	4.707	ug/l	99
85) sec-Butylbenzene	11.890	105	24465	4.753	ug/l	100
86) p-Isopropyltoluene	12.006	119	20178	4.755	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	10255	4.763	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	11016	5.047	ug/l	93
89) n-Butylbenzene	12.329	91	15887	4.317	ug/l	98
90) Hexachloroethane	12.536	117	3151	4.320	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	10510	4.910	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	1661	4.417	ug/l	92
93) 1,2,4-Trichlorobenzene	13.591	180	5391	4.524	ug/l	95
94) Hexachlorobutadiene	13.719	225	2483	4.836	ug/l	98
95) Naphthalene	13.774	128	19618	4.424	ug/l	97
96) 1,2,3-Trichlorobenzene	13.957	180	5854	4.692	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

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

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

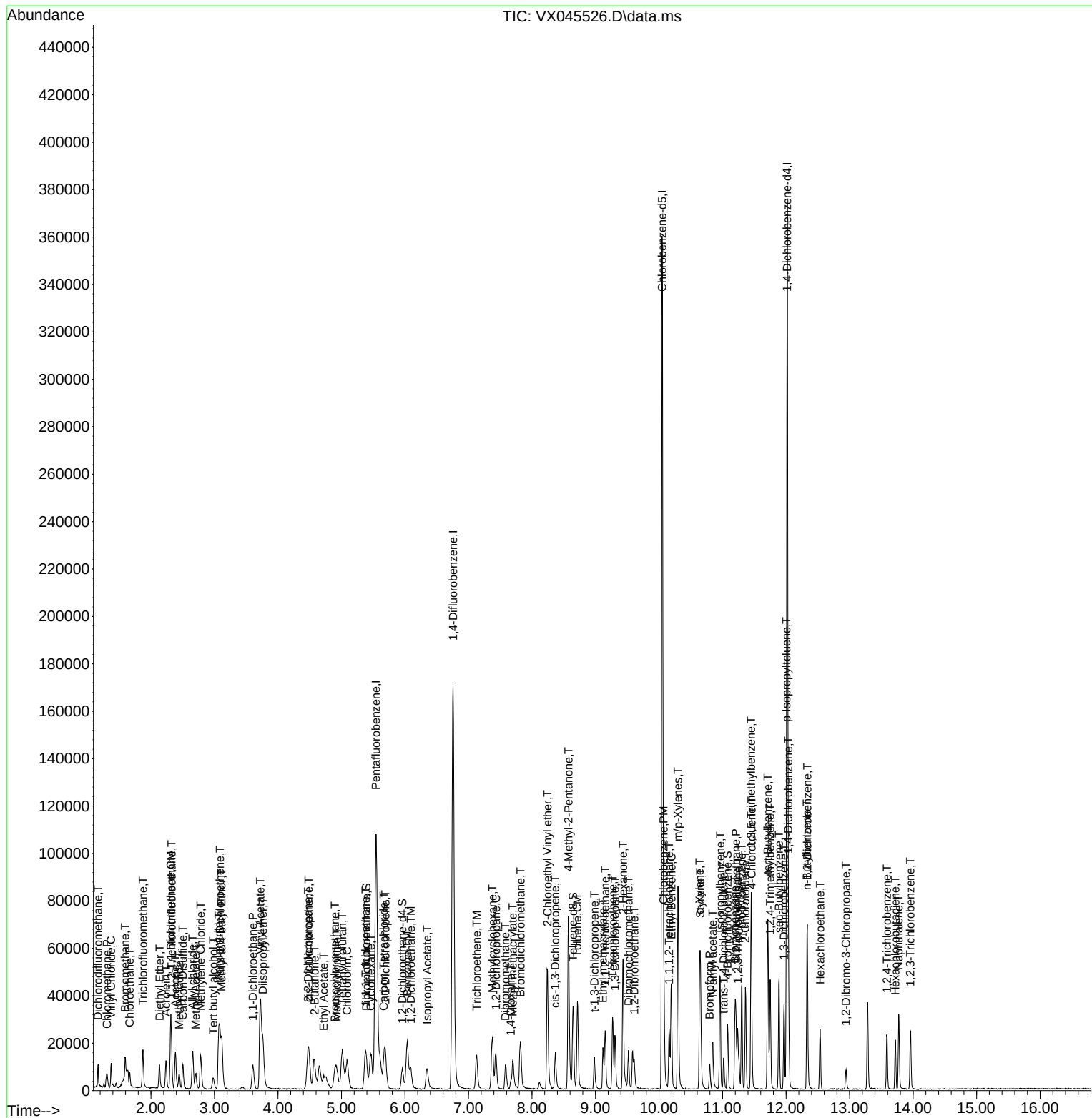
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045526.D
Acq On : 01 Apr 2025 17:29
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

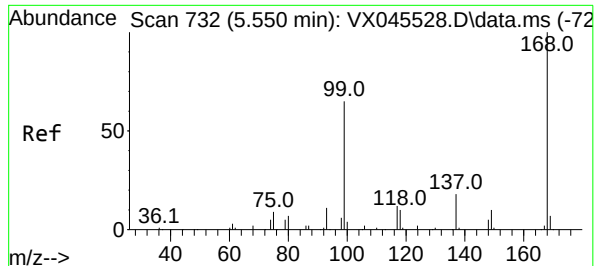
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:51:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration





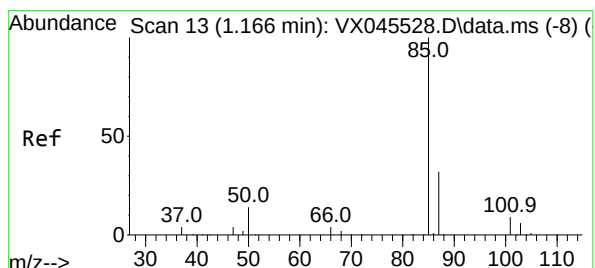
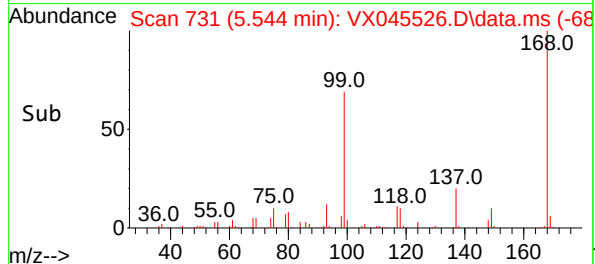
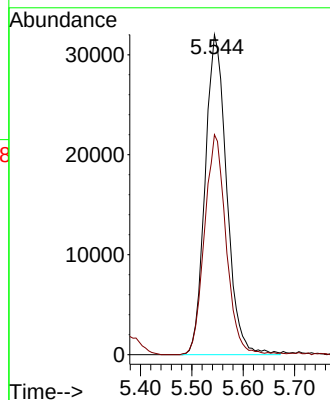
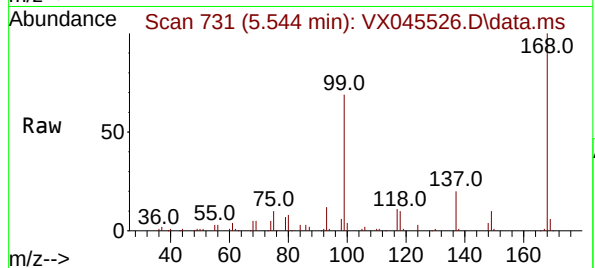
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:168 Resp: 93234
Ion Ratio Lower Upper
168 100
99 68.8 52.3 78.5

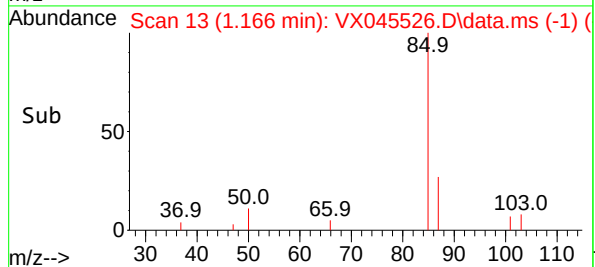
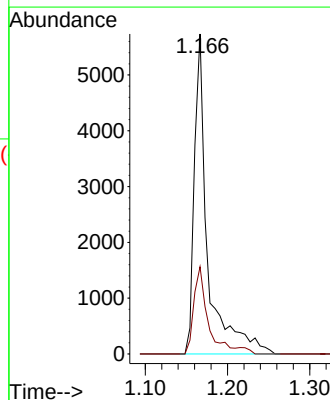
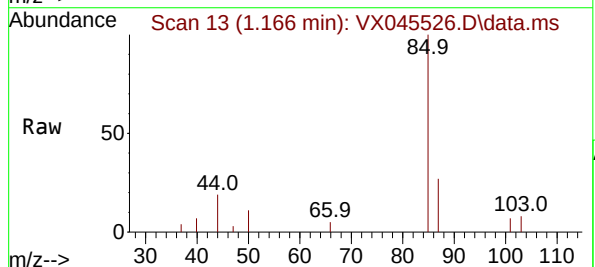
Manual Integrations
APPROVED

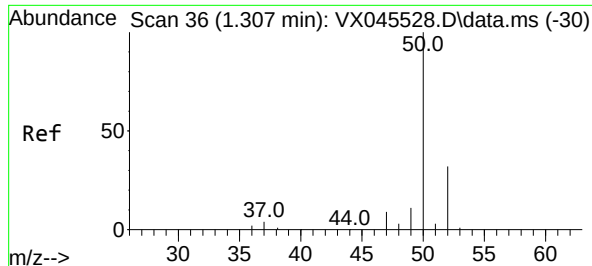
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 4.649 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 85 Resp: 6482
Ion Ratio Lower Upper
85 100
87 27.3 16.1 48.2





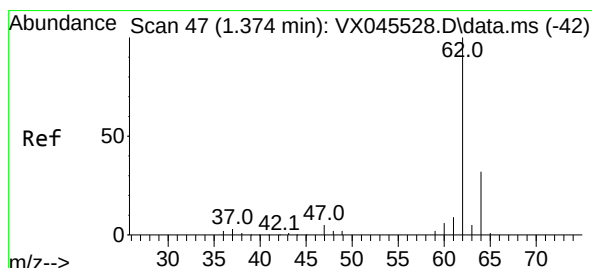
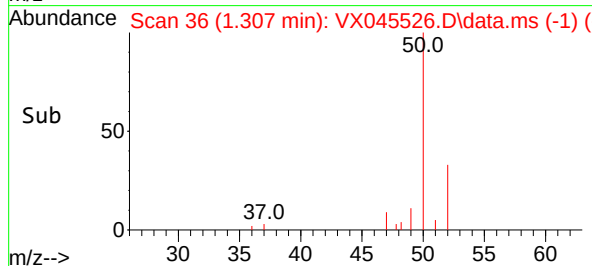
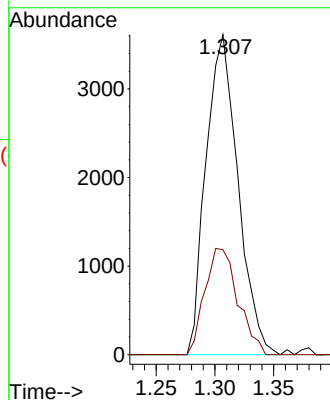
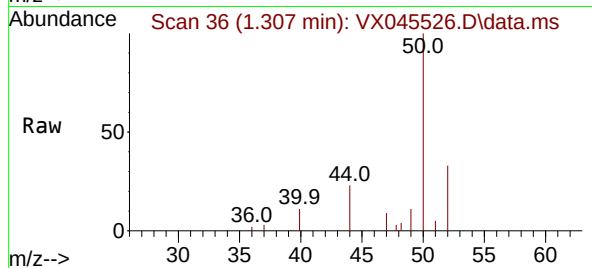
#3
Chloromethane
Concen: 4.779 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 50 Resp: 6840
Ion Ratio Lower Upper
50 100
52 32.8 25.9 38.9

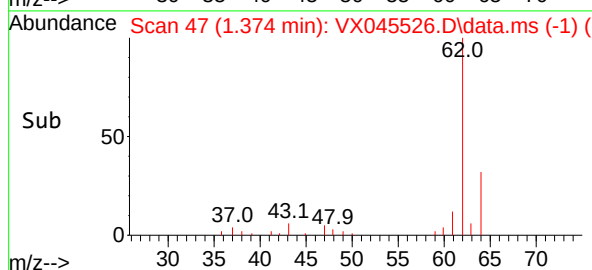
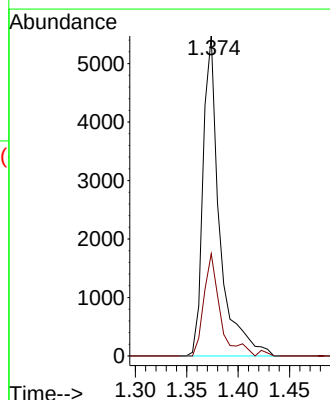
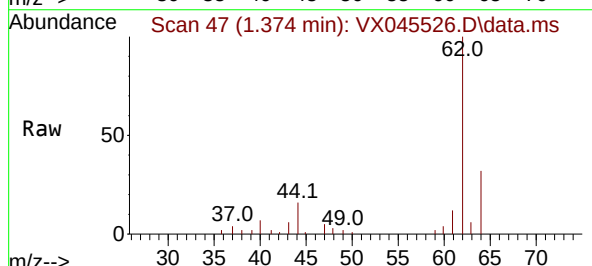
Manual Integrations
APPROVED

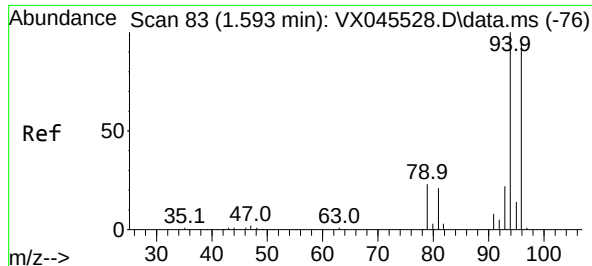
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 4.706 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 62 Resp: 6169
Ion Ratio Lower Upper
62 100
64 31.9 25.5 38.3





#5

Bromomethane

Concen: 5.124 ug/l

RT: 1.593 min Scan# 83

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 94 Resp: 318

Ion Ratio Lower Upper

94 100

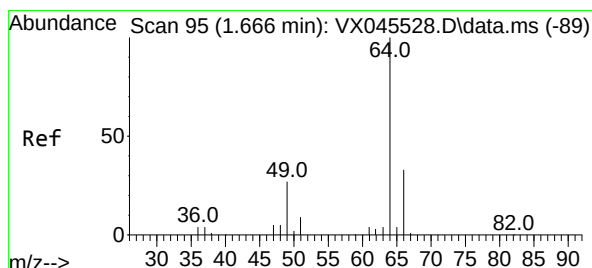
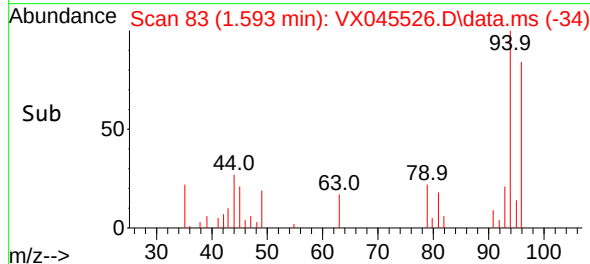
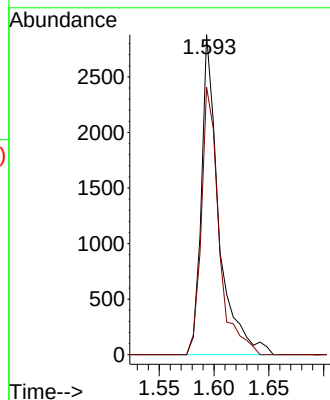
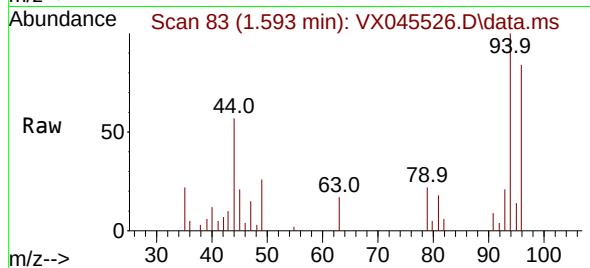
96 83.6 74.8 112.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#6

Chloroethane

Concen: 5.324 ug/l

RT: 1.666 min Scan# 95

Delta R.T. 0.000 min

Lab File: VX045526.D

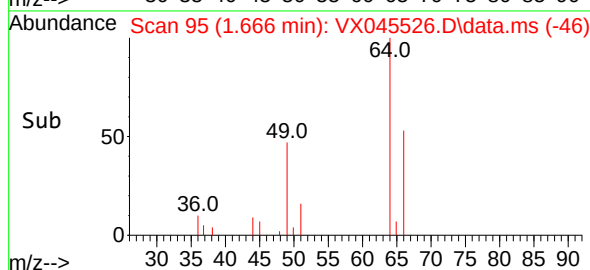
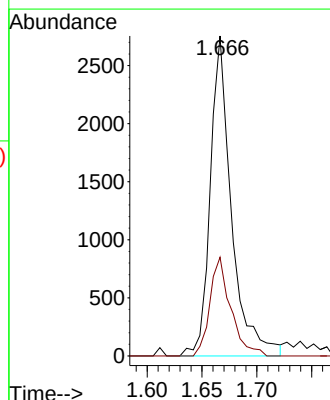
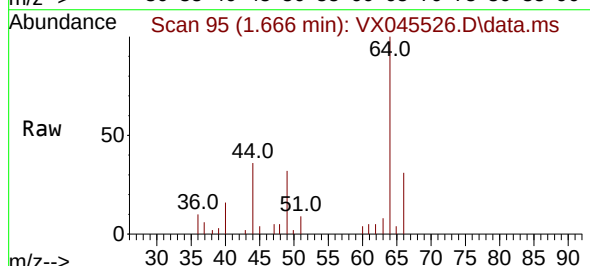
Acq: 01 Apr 2025 17:29

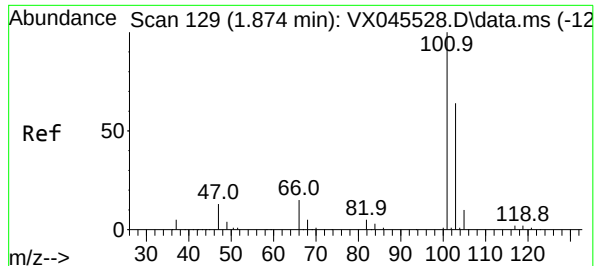
Tgt Ion: 64 Resp: 3703

Ion Ratio Lower Upper

64 100

66 30.9 26.3 39.5





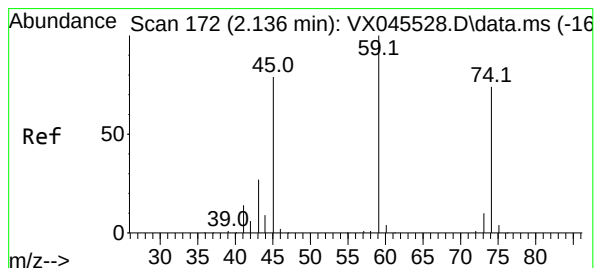
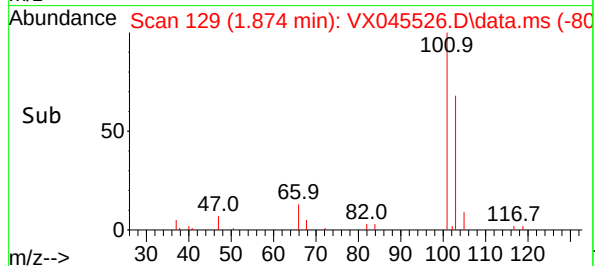
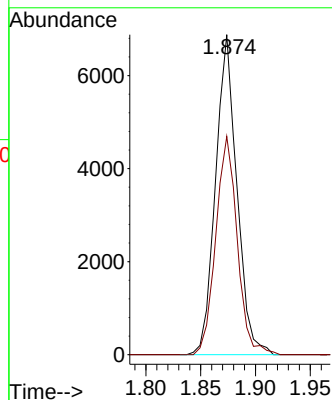
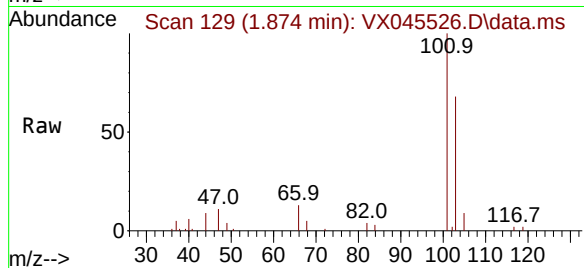
#7
Trichlorofluoromethane
Concen: 4.766 ug/l
RT: 1.874 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 9310
Ion Ratio Lower Upper
101 100
103 68.2 51.1 76.7

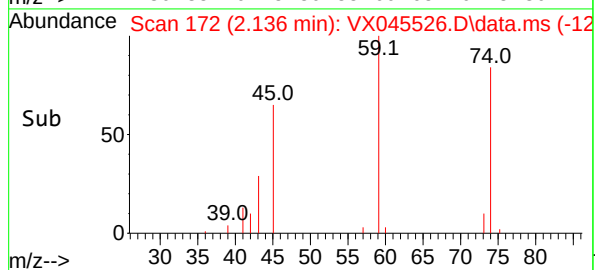
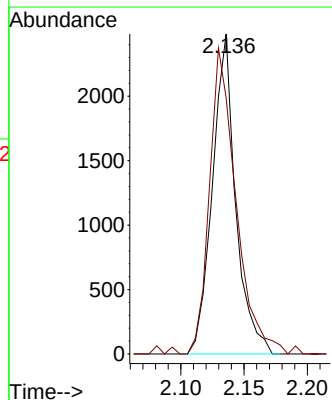
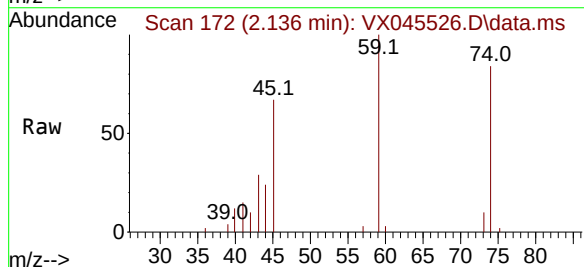
Manual Integrations
APPROVED

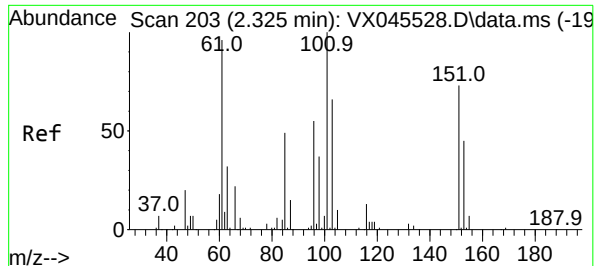
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#8
Diethyl Ether
Concen: 4.832 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 74 Resp: 3171
Ion Ratio Lower Upper
74 100
45 110.2 53.0 159.1





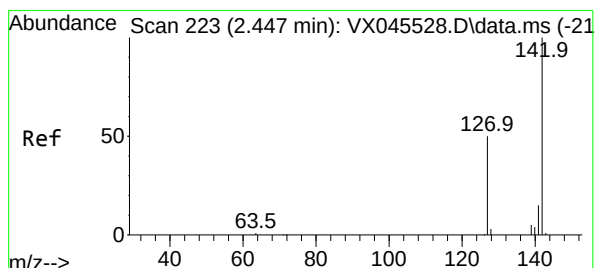
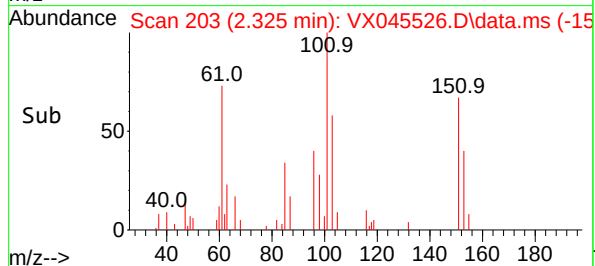
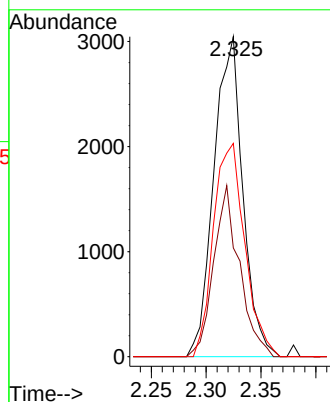
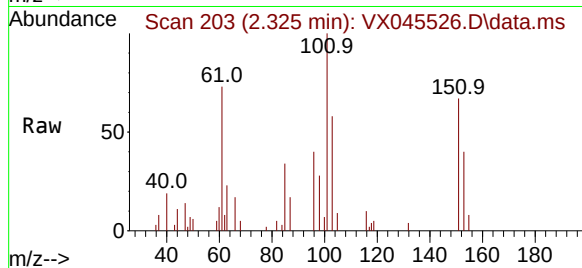
#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.879 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:101 Resp: 5589
Ion Ratio Lower Upper
101 100
85 47.8 38.9 58.3
151 72.4 57.5 86.3

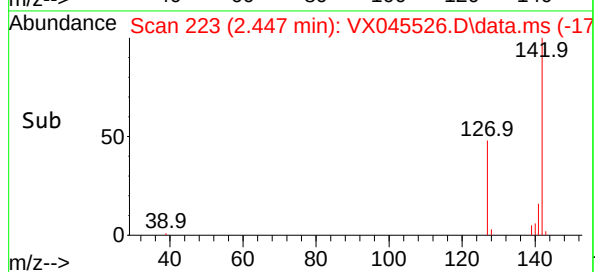
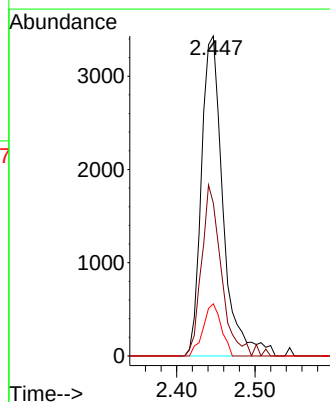
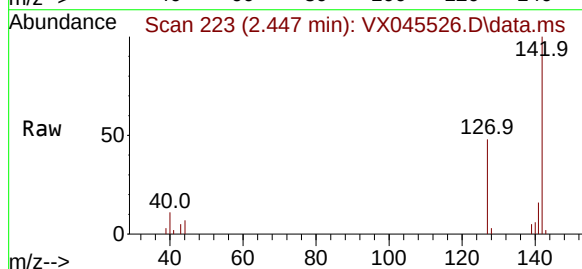
Manual Integrations
APPROVED

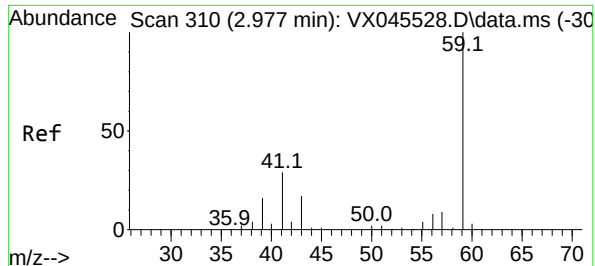
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#10
Methyl Iodide
Concen: 4.601 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:142 Resp: 6574
Ion Ratio Lower Upper
142 100
127 48.4 40.2 60.4
141 13.7 11.7 17.5





#11

Tert butyl alcohol

Concen: 22.633 ug/l

RT: 2.983 min Scan# 310

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 59 Resp: 5180

Ion Ratio Lower Upper

59 100

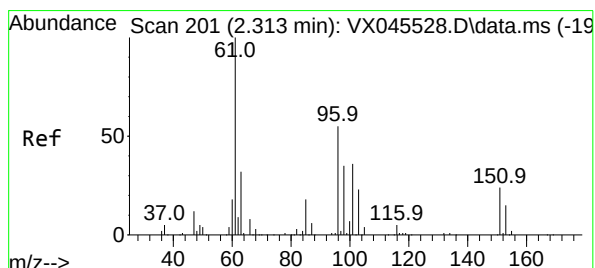
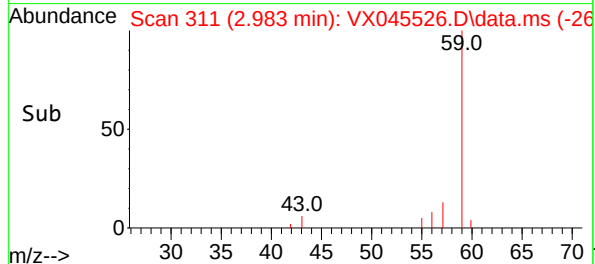
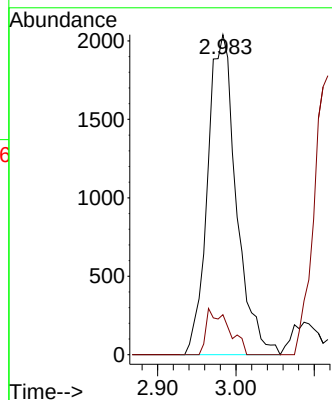
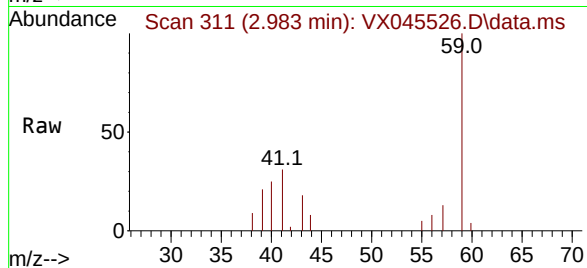
57 11.2 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#12

1,1-Dichloroethene

Concen: 4.901 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

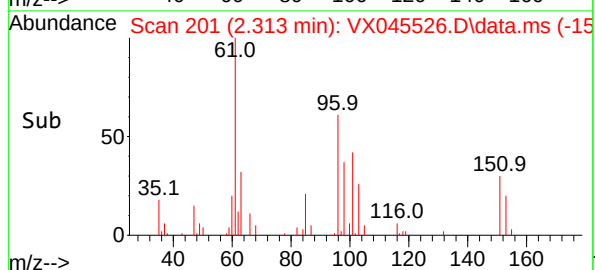
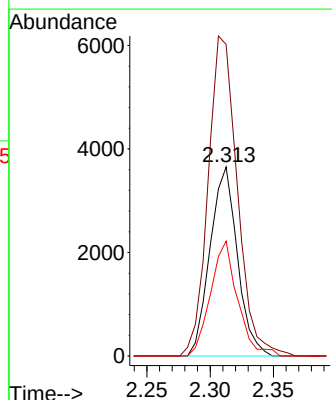
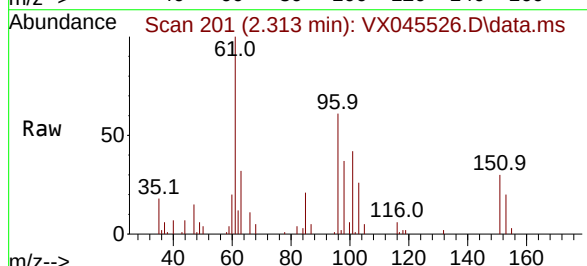
Tgt Ion: 96 Resp: 5485

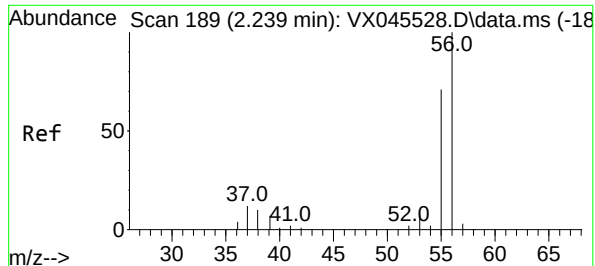
Ion Ratio Lower Upper

96 100

61 164.9 145.7 218.5

98 60.8 51.6 77.4





#13

Acrolein

Concen: 25.993 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 820

Ion Ratio Lower Upper

56 100

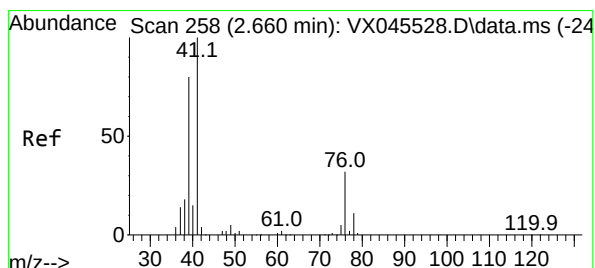
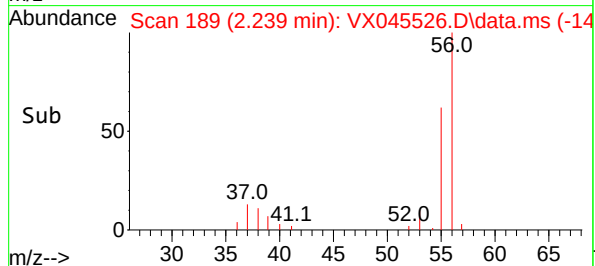
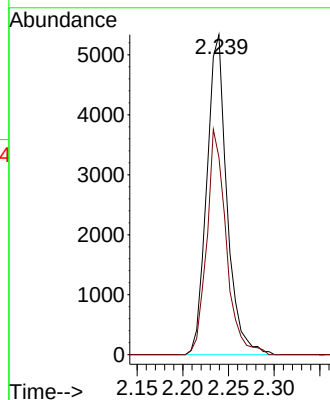
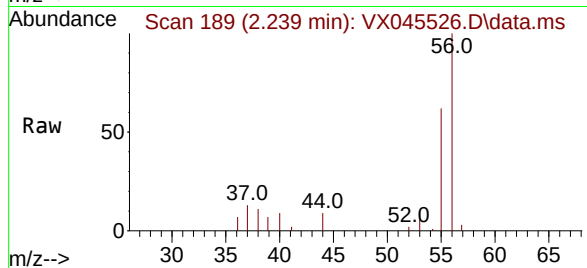
55 67.9 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#14

Allyl chloride

Concen: 4.690 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

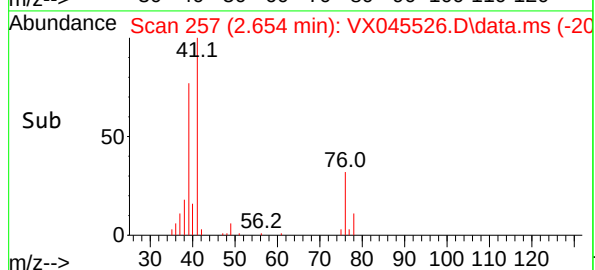
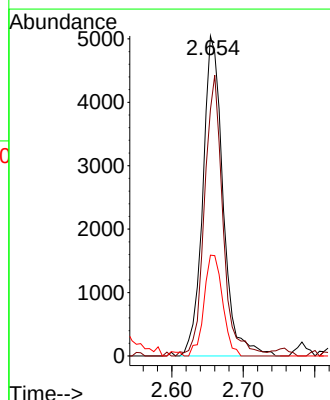
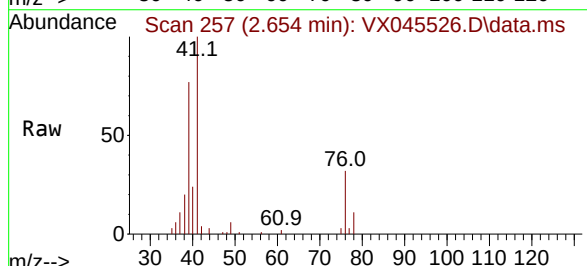
Tgt Ion: 41 Resp: 9960

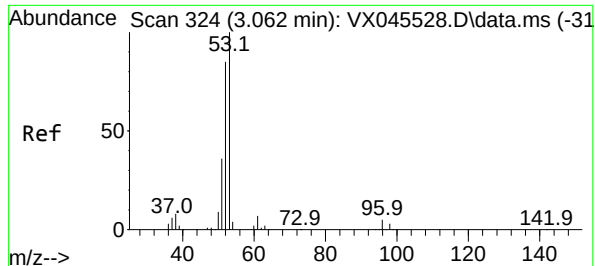
Ion Ratio Lower Upper

41 100

39 79.8 60.2 90.2

76 28.8 24.6 36.8





#15

Acrylonitrile

Concen: 24.624 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

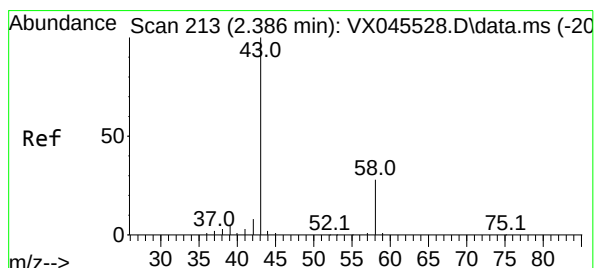
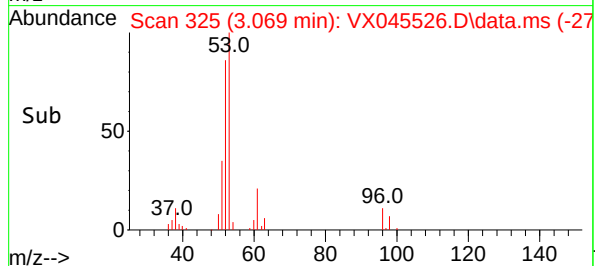
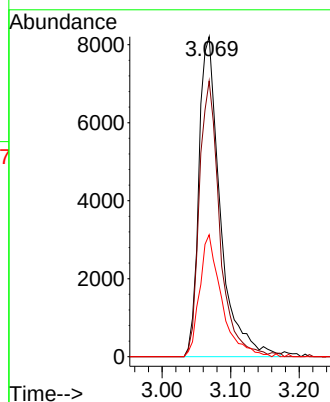
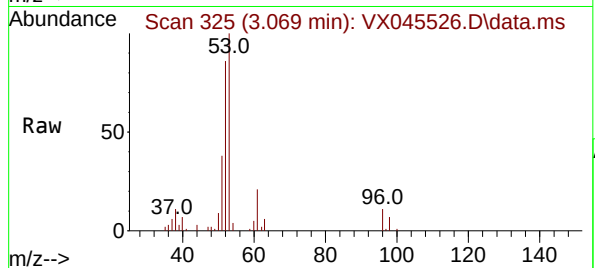
VSTDICC005

Tgt Ion:	53	Resp:	1781
Ion	Ratio	Lower	Upper
53	100		
52	82.1	67.4	101.2
51	39.3	29.9	44.9

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 24.550 ug/l

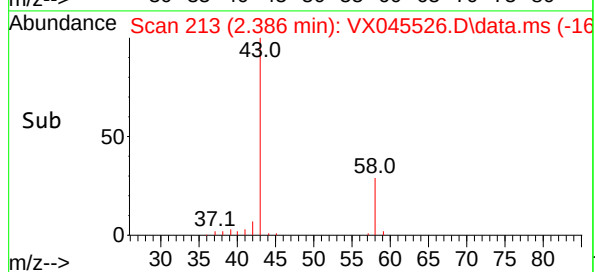
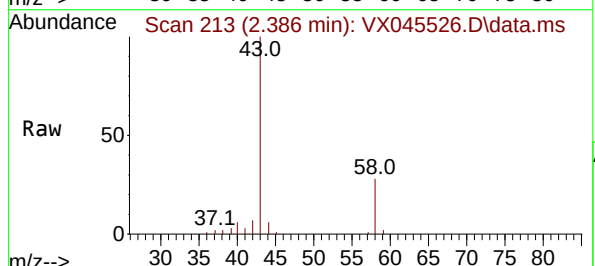
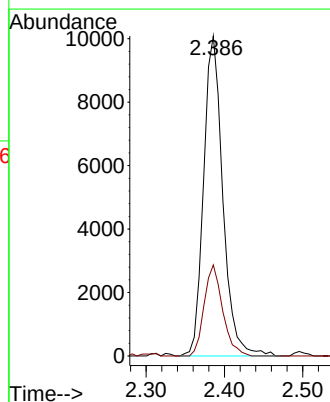
RT: 2.386 min Scan# 213

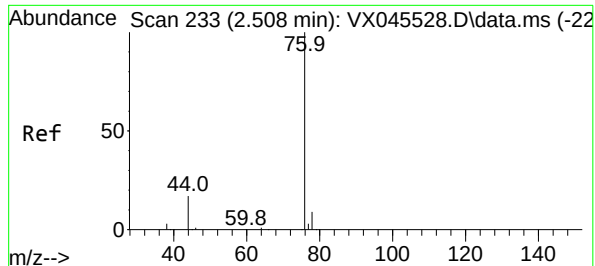
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	43	Resp:	17188
Ion	Ratio	Lower	Upper
43	100		
58	28.4	22.3	33.5





#17

Carbon Disulfide

Concen: 4.477 ug/l

RT: 2.502 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 76 Resp: 12370

Ion Ratio Lower Upper

76 100

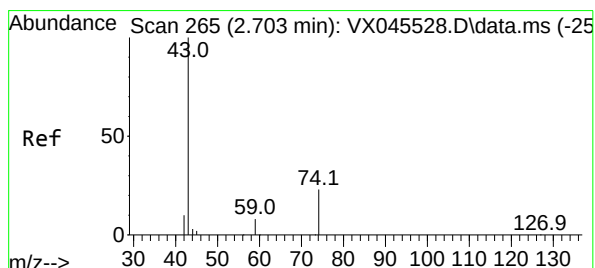
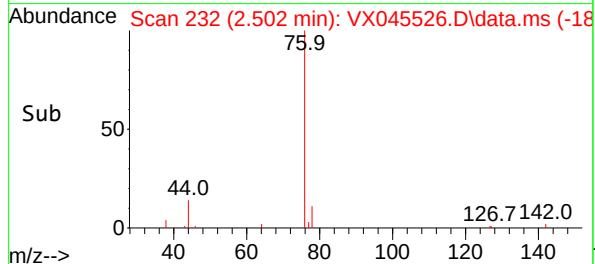
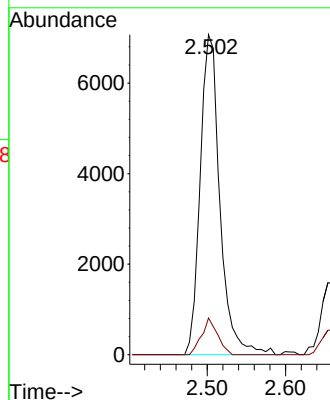
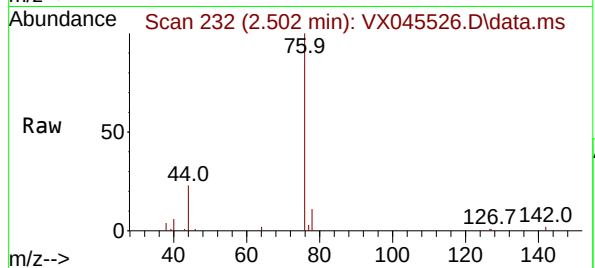
78 11.4 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#18

Methyl Acetate

Concen: 4.989 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045526.D

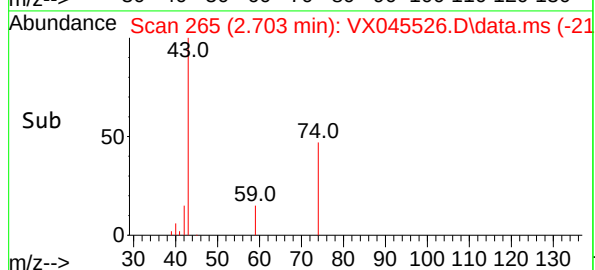
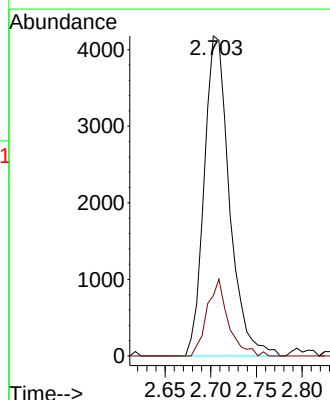
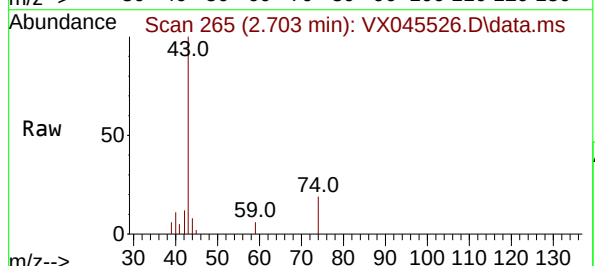
Acq: 01 Apr 2025 17:29

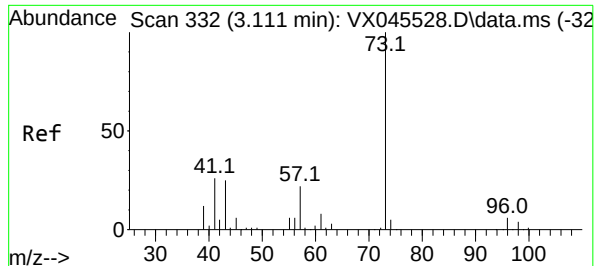
Tgt Ion: 43 Resp: 8042

Ion Ratio Lower Upper

43 100

74 20.2 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 4.677 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 73 Resp: 18314

Ion Ratio Lower Upper

73 100

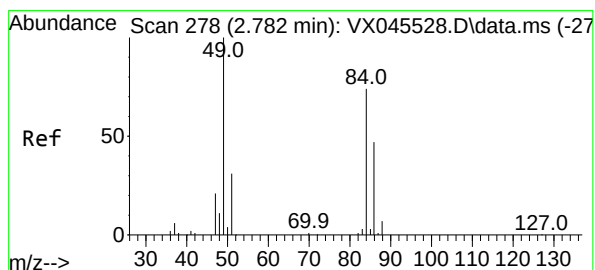
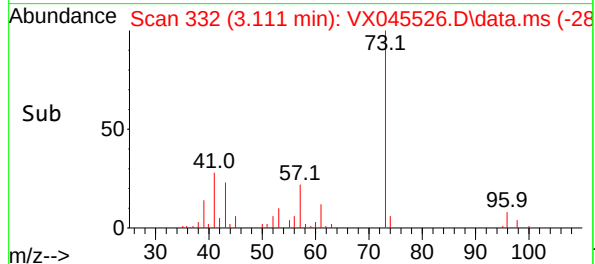
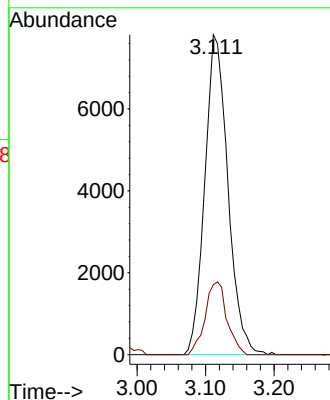
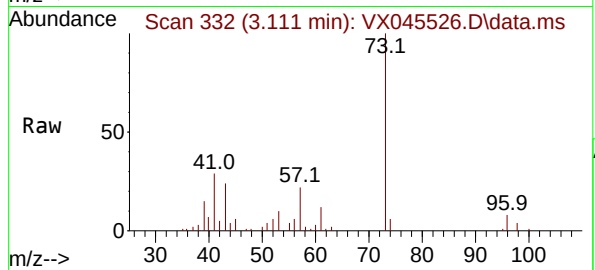
57 21.9 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 4.945 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion: 84 Resp: 6481

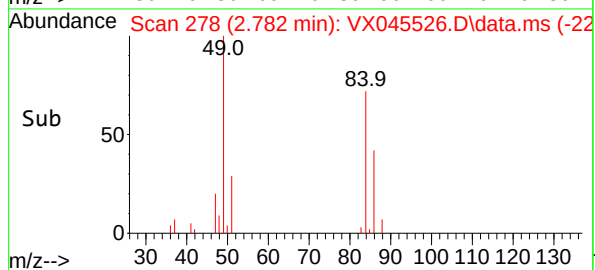
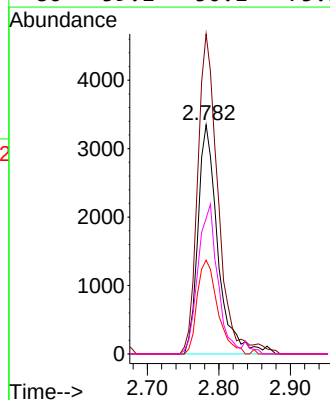
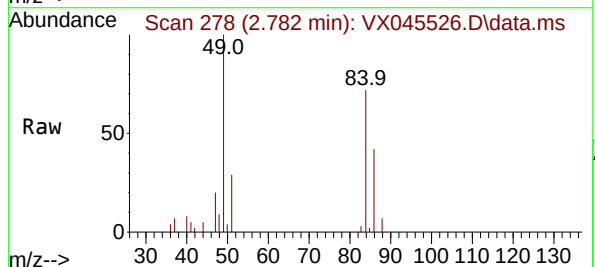
Ion Ratio Lower Upper

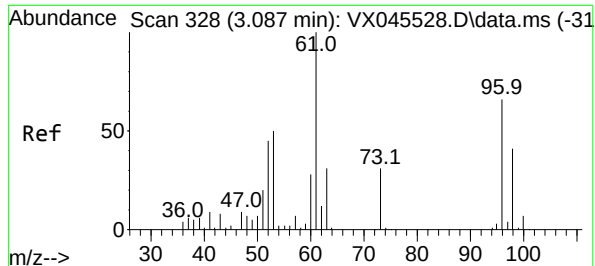
84 100

49 139.6 107.5 161.3

51 40.9 33.0 49.6

86 59.1 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 4.840 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 5534

Ion Ratio Lower Upper

96 100

61 144.4 121.0 181.6

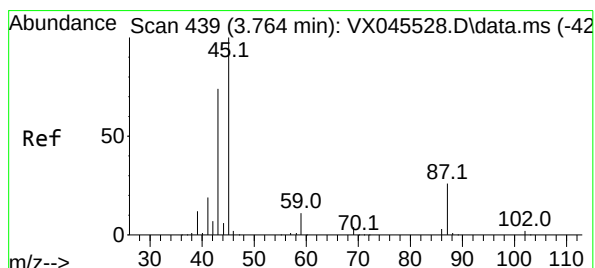
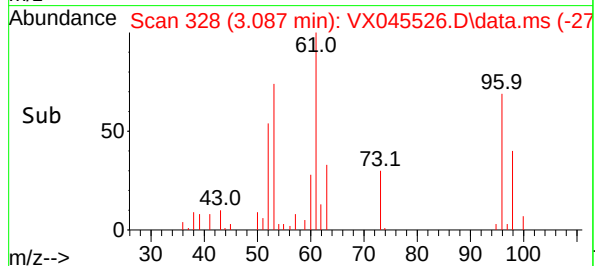
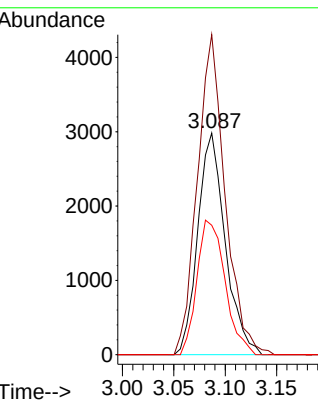
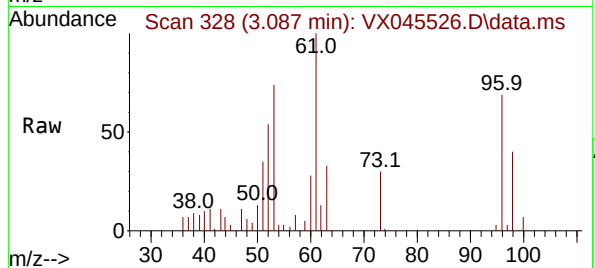
98 58.5 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#22

Diisopropyl ether

Concen: 4.725 ug/l

RT: 3.764 min Scan# 439

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion: 45 Resp: 19765

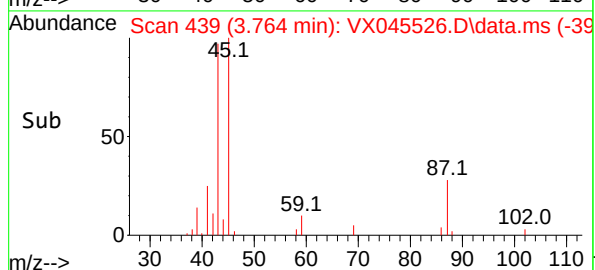
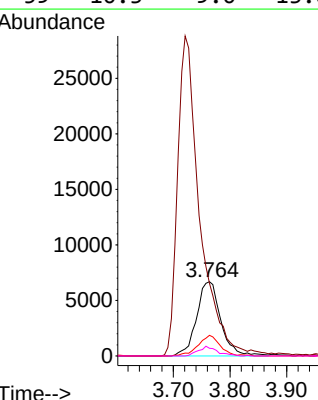
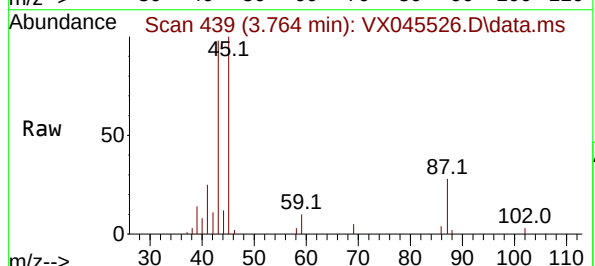
Ion Ratio Lower Upper

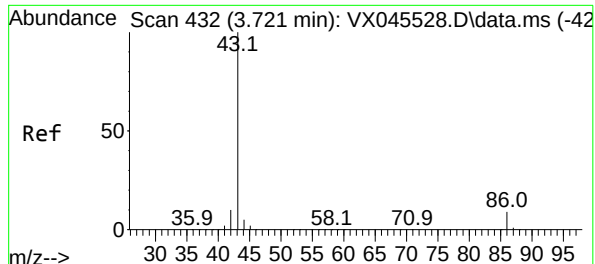
45 100

43 94.7 59.3 88.9#

87 27.8 20.4 30.6

59 10.3 9.0 13.6





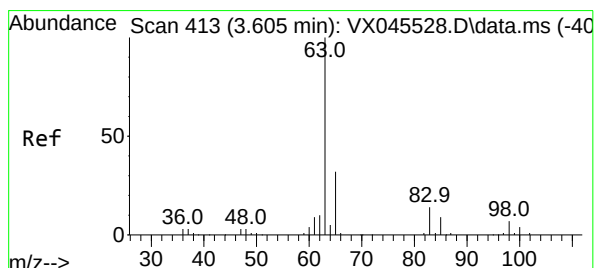
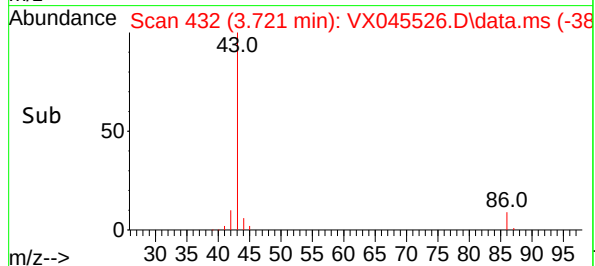
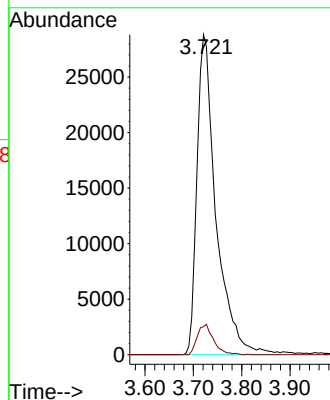
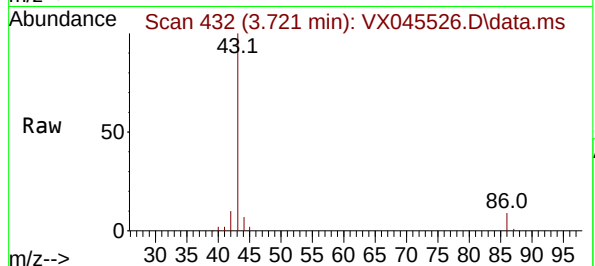
#23
Vinyl Acetate
Concen: 21.831 ug/l
RT: 3.721 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 43 Resp: 7890
Ion Ratio Lower Upper
43 100
86 8.7 7.5 11.3

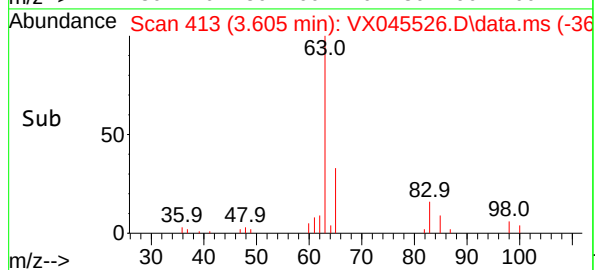
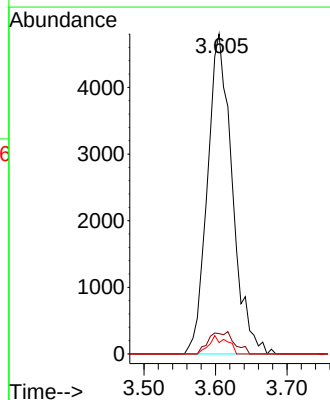
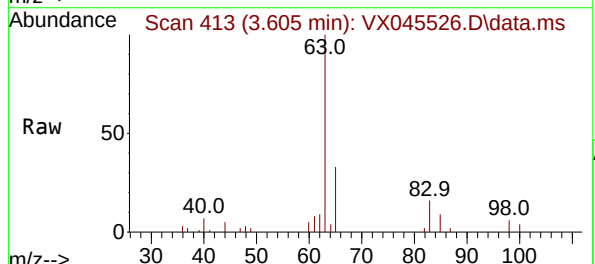
Manual Integrations
APPROVED

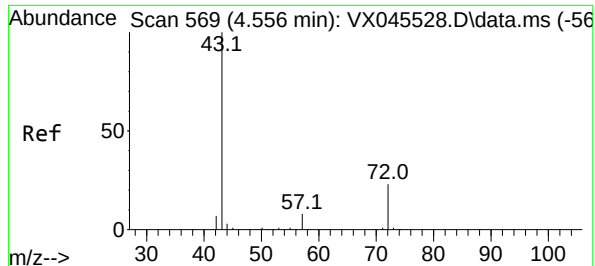
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#24
1,1-Dichloroethane
Concen: 4.887 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 63 Resp: 11562
Ion Ratio Lower Upper
63 100
98 6.3 3.4 10.1
100 3.6 2.2 6.6





#25

2-Butanone

Concen: 24.419 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.018 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 25020

Ion Ratio Lower Upper

43 100

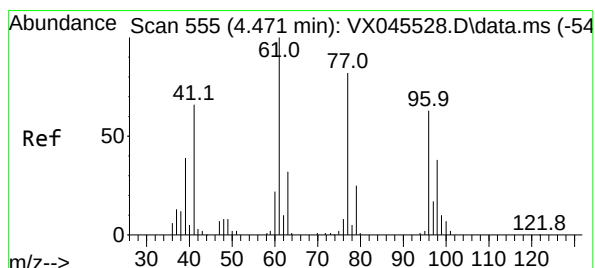
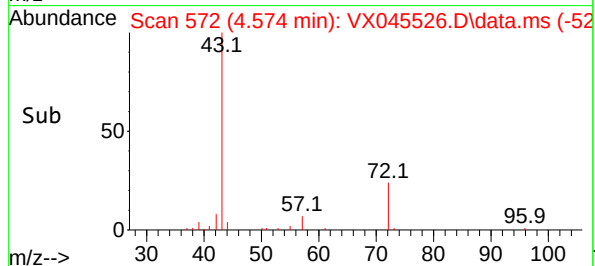
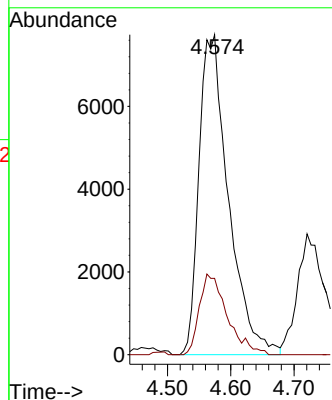
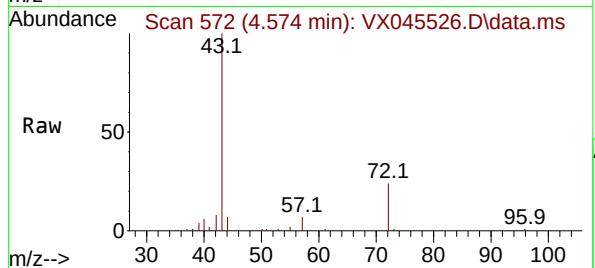
72 23.8 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#26

2,2-Dichloropropane

Concen: 4.615 ug/l

RT: 4.477 min Scan# 556

Delta R.T. 0.006 min

Lab File: VX045526.D

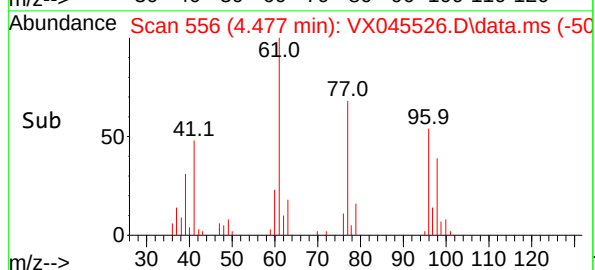
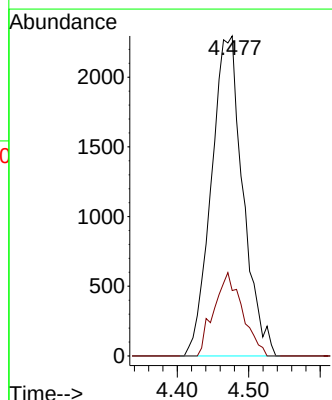
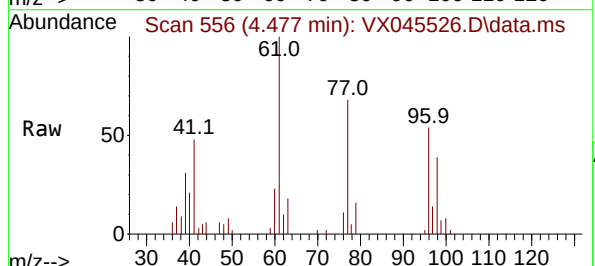
Acq: 01 Apr 2025 17:29

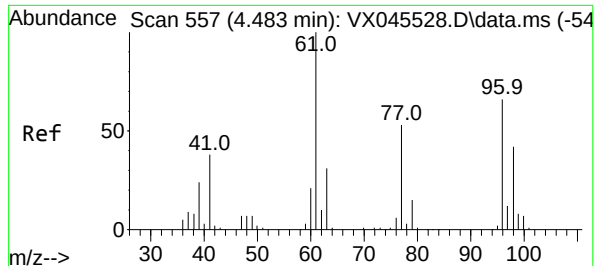
Tgt Ion: 77 Resp: 7054

Ion Ratio Lower Upper

77 100

97 23.4 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 4.655 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

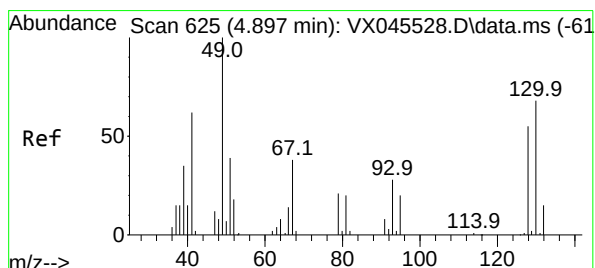
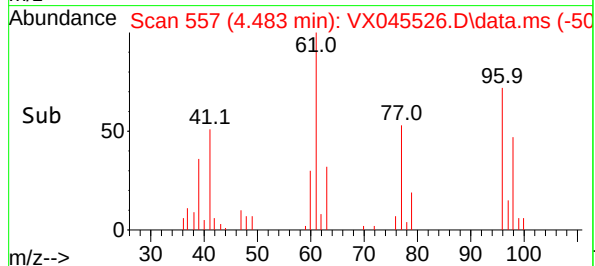
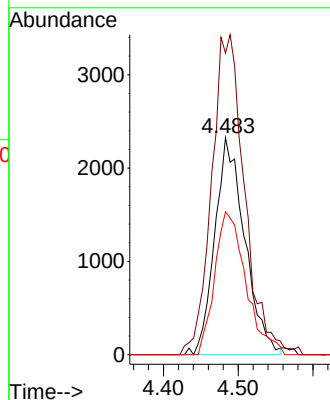
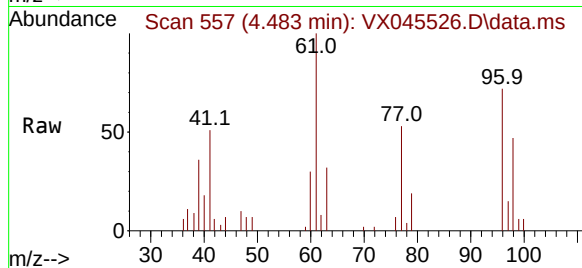
VSTDIC005

Tgt Ion:	96	Resp:	648
Ion	Ratio	Lower	Upper
96	100		
61	162.4	0.0	313.2
98	68.5	0.0	126.4

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 4.956 ug/l

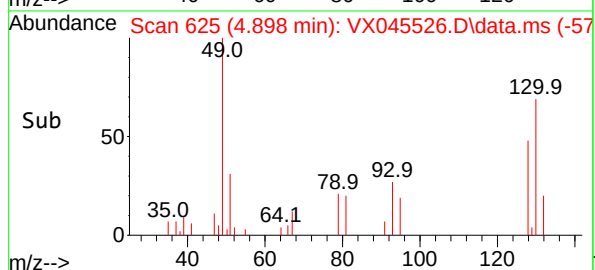
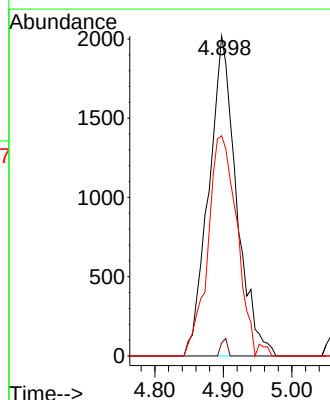
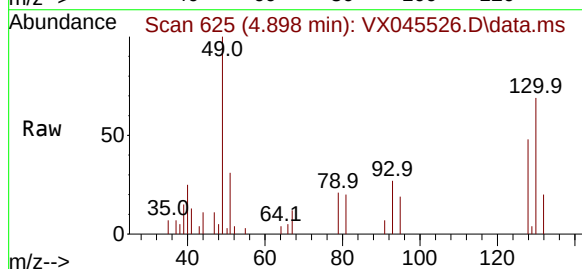
RT: 4.898 min Scan# 625

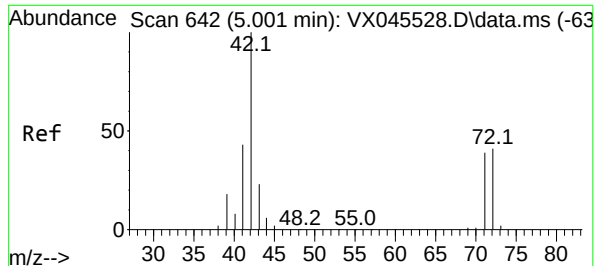
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	49	Resp:	5666
Ion	Ratio	Lower	Upper
49	100		
129	1.2	0.0	3.8
130	72.2	54.6	81.8





#29

Tetrahydrofuran

Concen: 23.950 ug/l

RT: 5.013 min Scan# 642

Delta R.T. 0.012 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

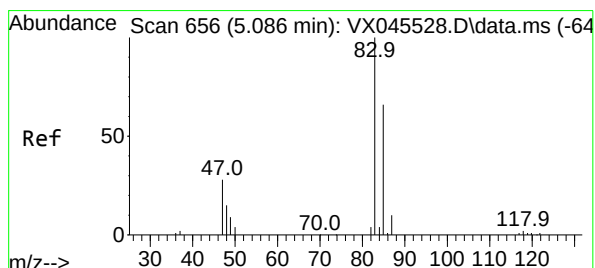
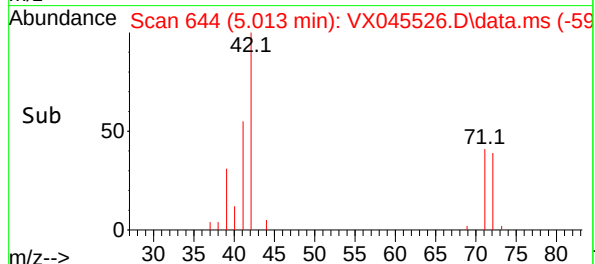
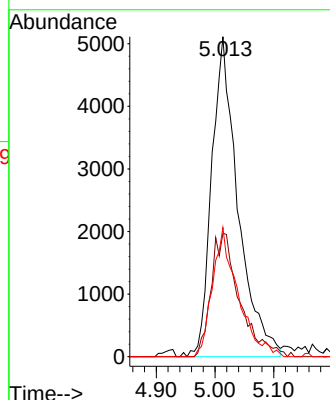
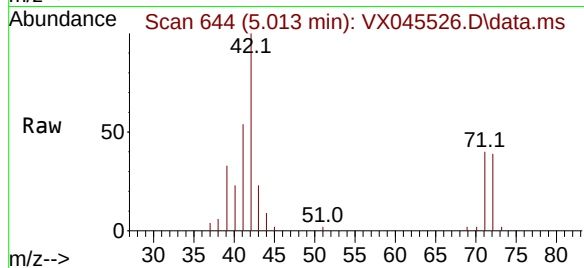
VSTDIC005

Tgt Ion:	42	Resp:	1591
Ion Ratio	Lower	Upper	
42	100		
72	41.9	33.4	50.0
71	39.2	31.4	47.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 5.012 ug/l

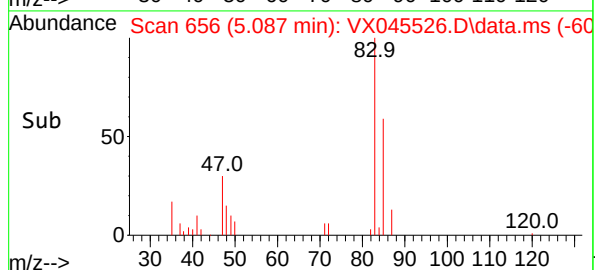
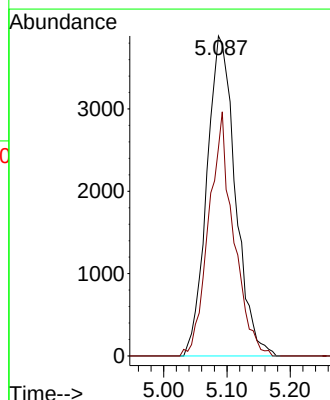
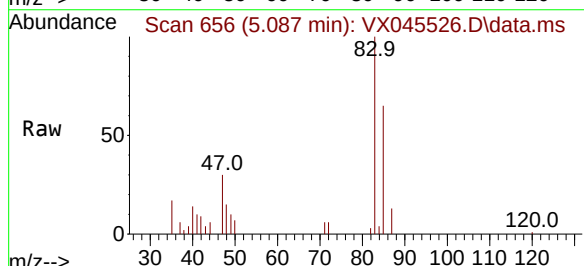
RT: 5.087 min Scan# 656

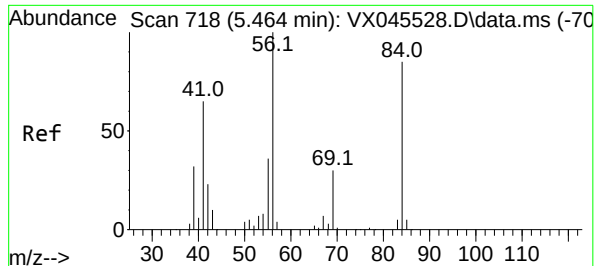
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	83	Resp:	12200
Ion Ratio	Lower	Upper	
83	100		
85	65.0	52.8	79.2





#31

Cyclohexane

Concen: 4.653 ug/l

RT: 5.465 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

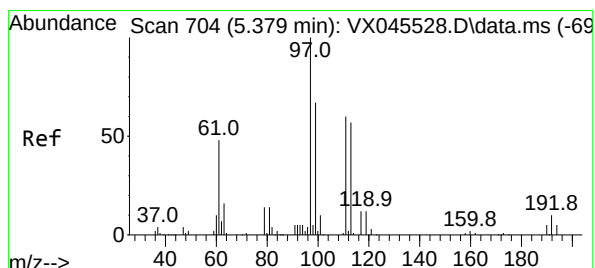
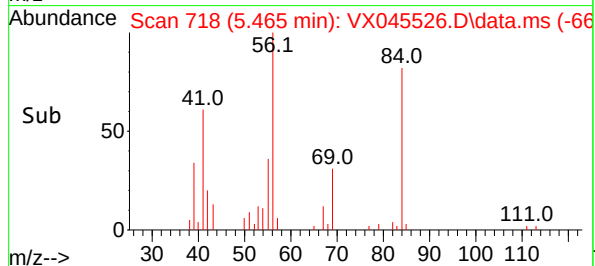
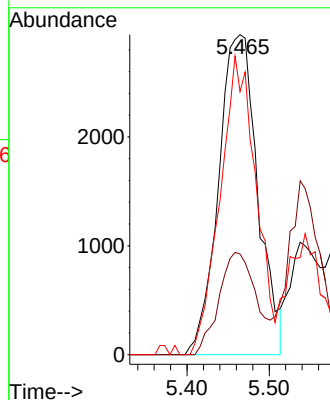
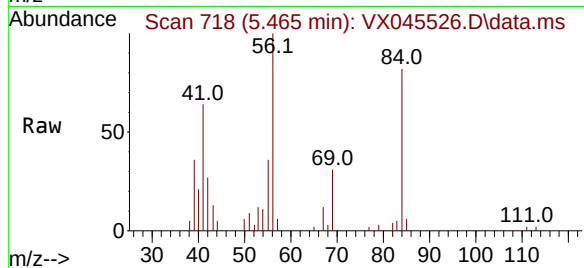
VSTDIC005

Tgt Ion:	56	Resp:	973
Ion	Ratio	Lower	Upper
56	100		
69	31.5	23.6	35.4
84	82.2	67.7	101.5

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#32

1,1,1-Trichloroethane

Concen: 4.763 ug/l

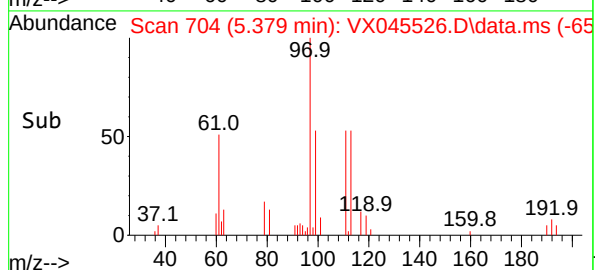
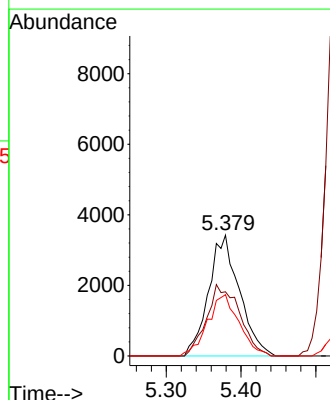
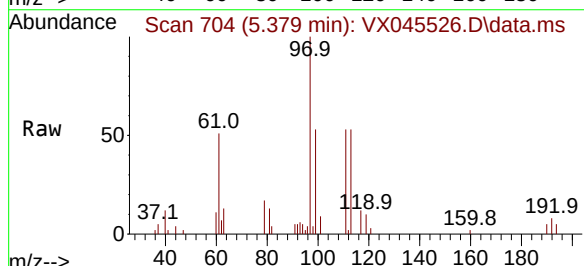
RT: 5.379 min Scan# 704

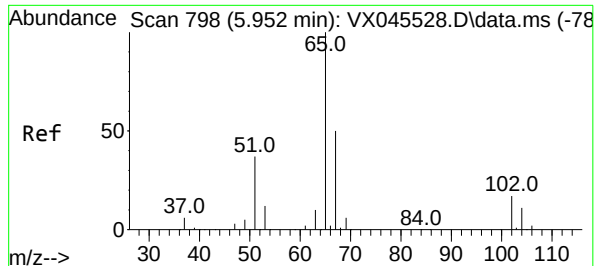
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	97	Resp:	9811
Ion	Ratio	Lower	Upper
97	100		
99	63.2	51.7	77.5
61	52.0	41.0	61.4





#33

1,2-Dichloroethane-d4

Concen: 5.260 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 65 Resp: 896

Ion Ratio Lower Upper

65 100

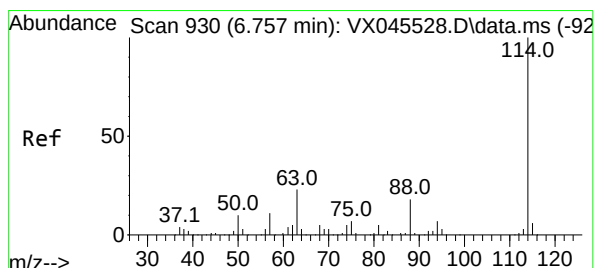
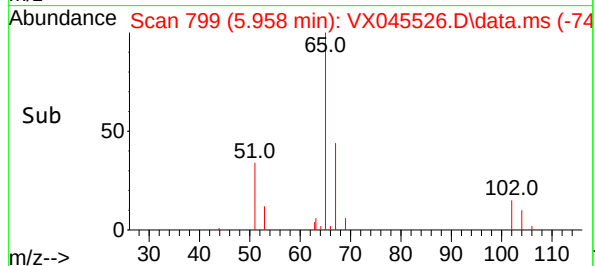
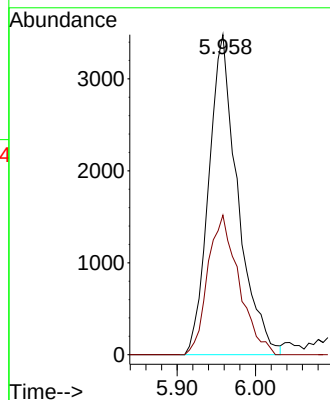
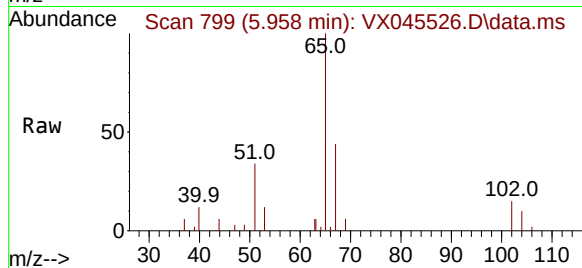
67 46.7 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

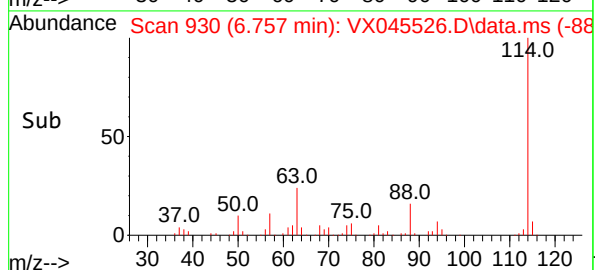
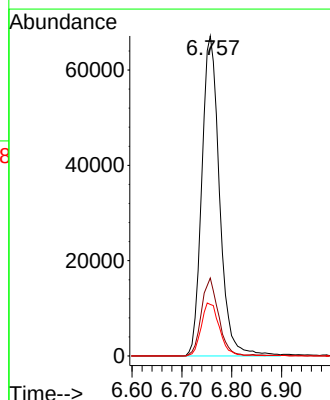
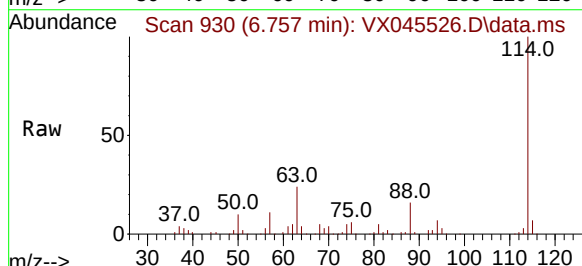
Tgt Ion:114 Resp: 166137

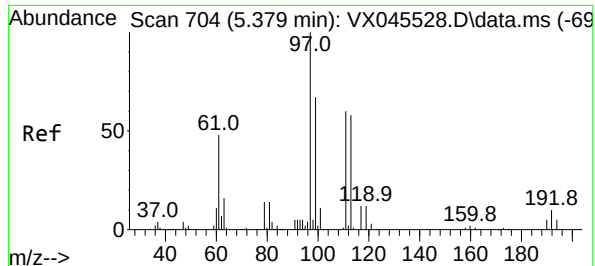
Ion Ratio Lower Upper

114 100

63 24.4 0.0 46.8

88 16.1 0.0 35.4





#35

Dibromofluoromethane

Concen: 5.244 ug/l

RT: 5.391 min Scan# 704

Delta R.T. 0.012 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

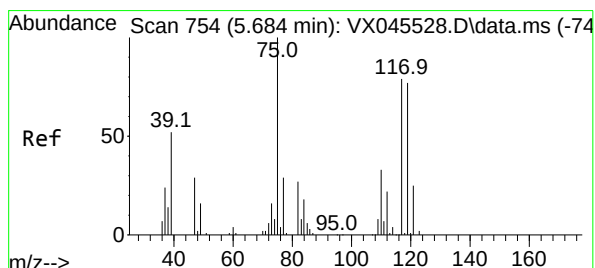
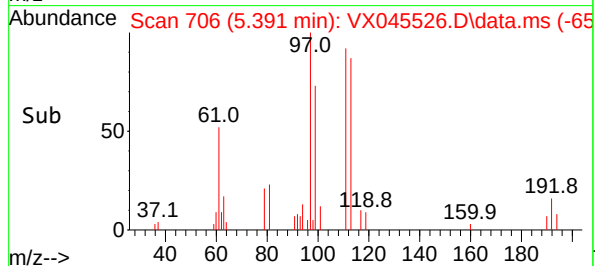
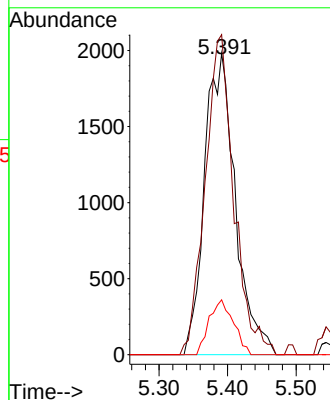
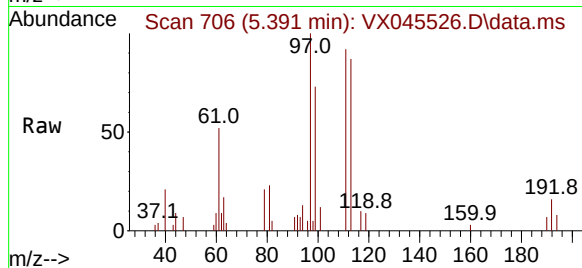
VSTDIC005

Tgt Ion:	113	Resp:	618
Ion	Ratio	Lower	Upper
113	100		
111	98.8	81.8	122.6
192	14.4	13.8	20.6

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#36

1,1-Dichloropropene

Concen: 4.621 ug/l

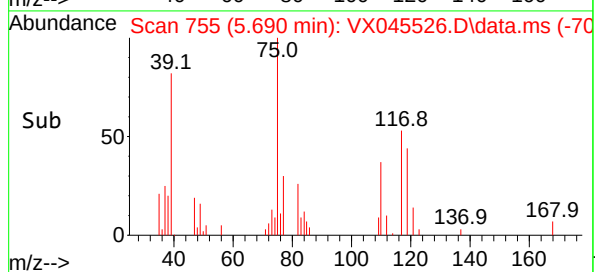
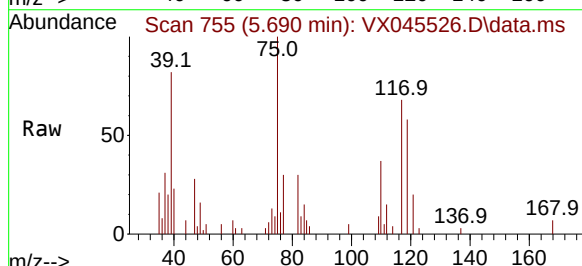
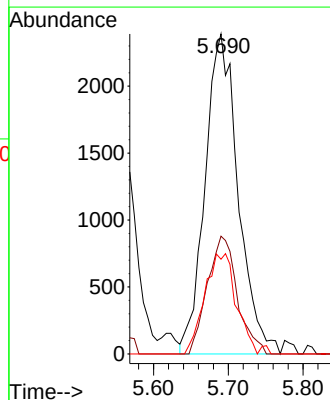
RT: 5.690 min Scan# 755

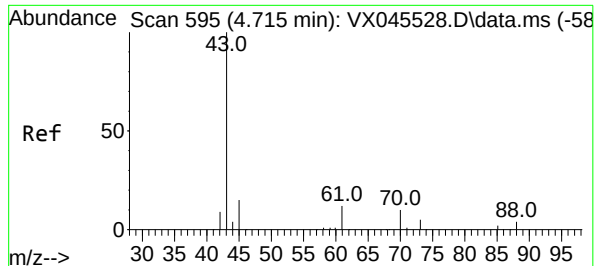
Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	75	Resp:	7354
Ion	Ratio	Lower	Upper
75	100		
110	33.3	16.9	50.6
77	29.8	25.0	37.4





#37

Ethyl Acetate

Concen: 4.679 ug/l

RT: 4.721 min Scan# 596

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

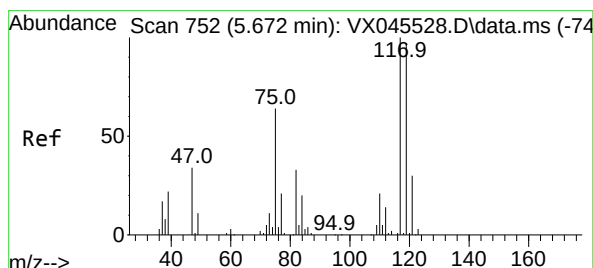
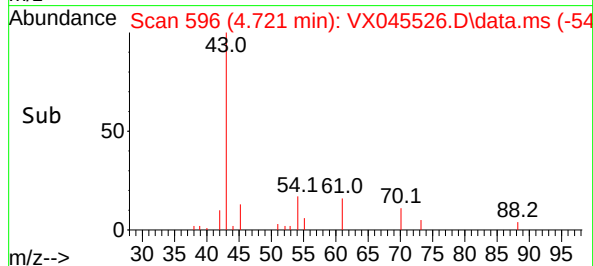
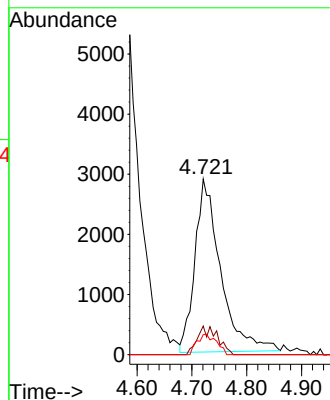
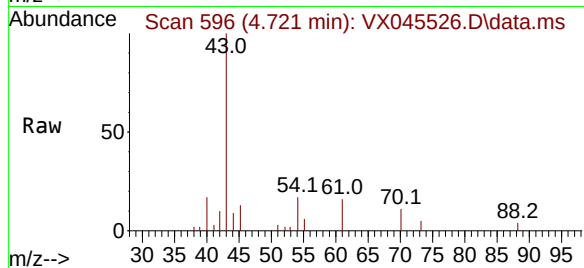
VSTDIC005

Tgt Ion:	43	Resp:	9384
Ion	Ratio	Lower	Upper
43	100		
61	6.3	9.9	14.9
70	8.9	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#38

Carbon Tetrachloride

Concen: 4.804 ug/l

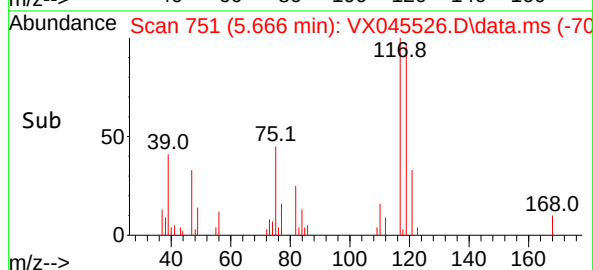
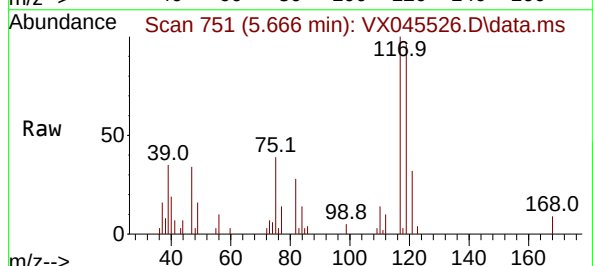
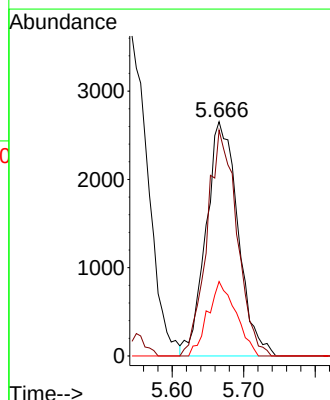
RT: 5.666 min Scan# 751

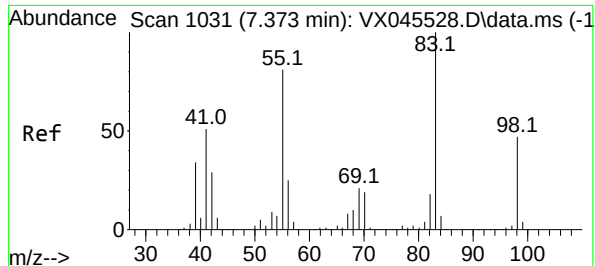
Delta R.T. -0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	117	Resp:	8264
Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.9	115.3
121	31.7	24.2	36.2





#39

Methylcyclohexane

Concen: 4.489 ug/l

RT: 7.379 min Scan# 1031

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 83 Resp: 875

Ion Ratio Lower Upper

83 100

55 84.0 64.9 97.3

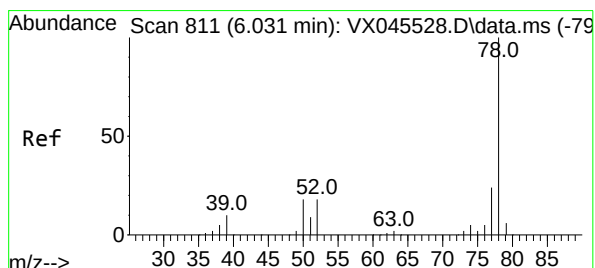
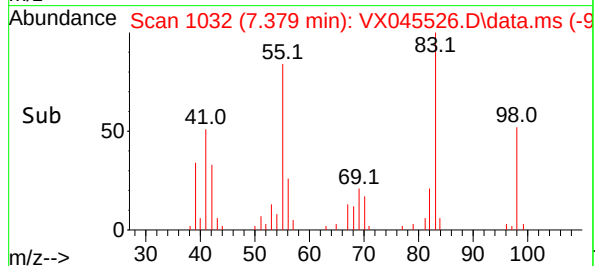
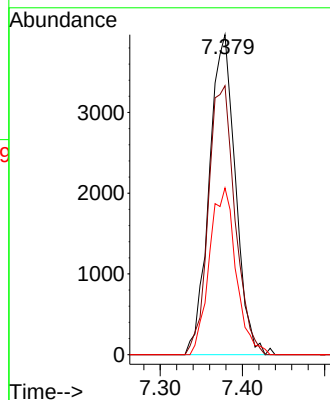
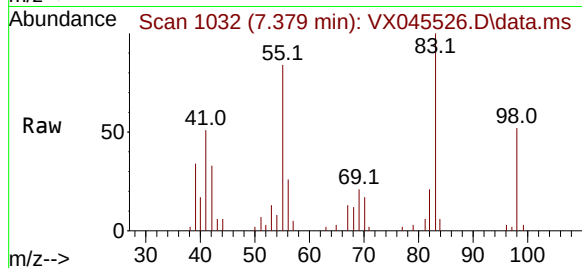
98 52.1 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#40

Benzene

Concen: 4.839 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX045526.D

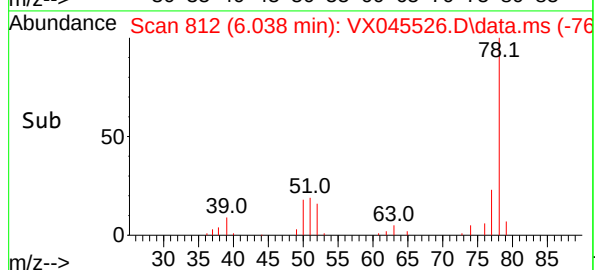
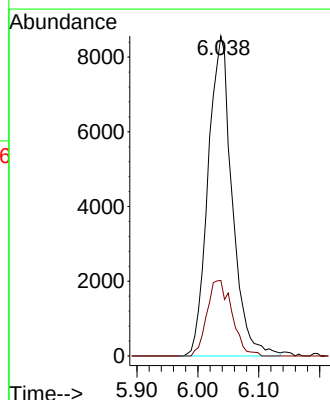
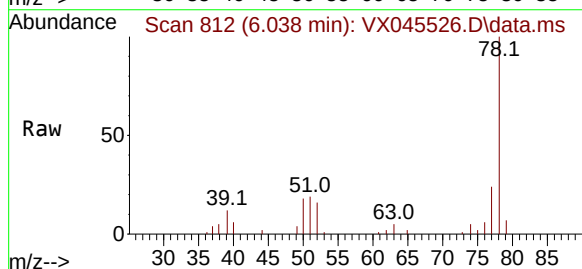
Acq: 01 Apr 2025 17:29

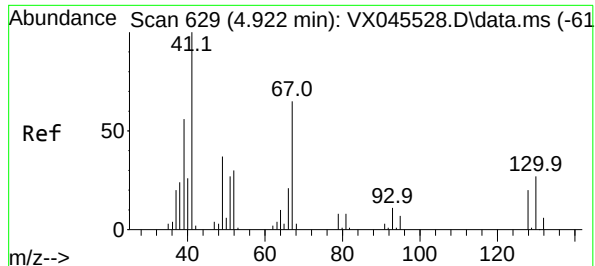
Tgt Ion: 78 Resp: 23522

Ion Ratio Lower Upper

78 100

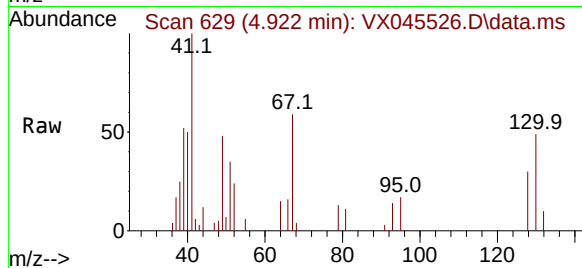
77 23.6 19.0 28.6





#41
Methacrylonitrile
Concen: 4.302 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

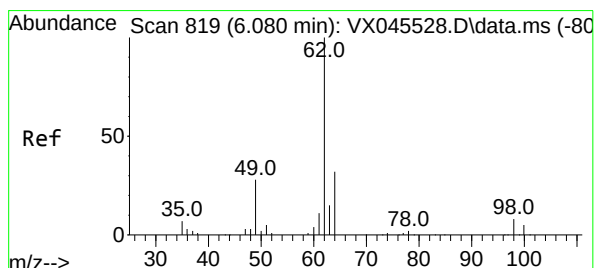
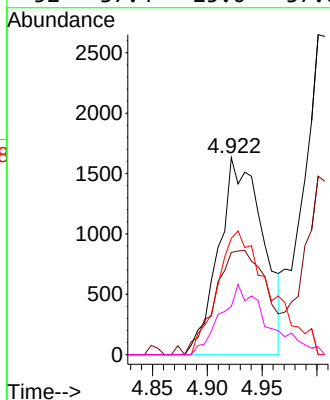
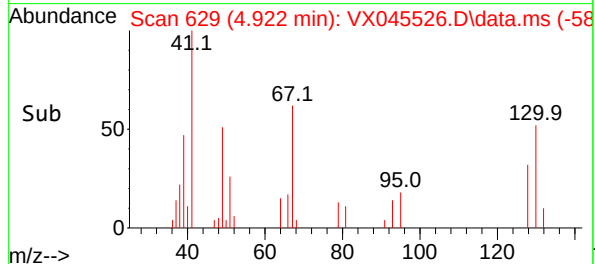
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



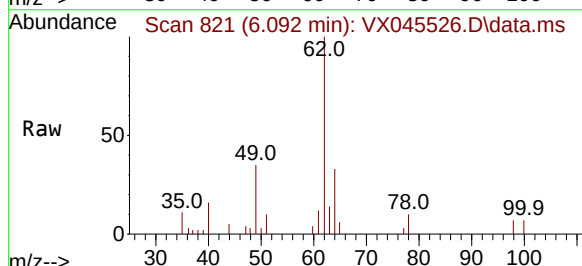
Tgt Ion: 41 Resp: 459
Ion Ratio Lower Upper
41 100
39 61.4 47.0 70.6
67 75.2 53.2 79.8
52 37.4 25.0 37.6

Manual Integrations
APPROVED

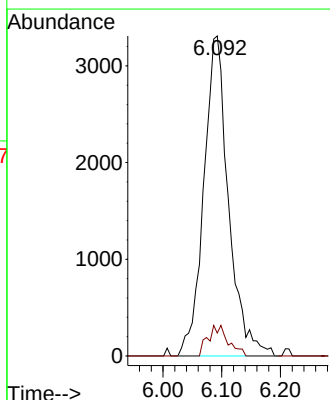
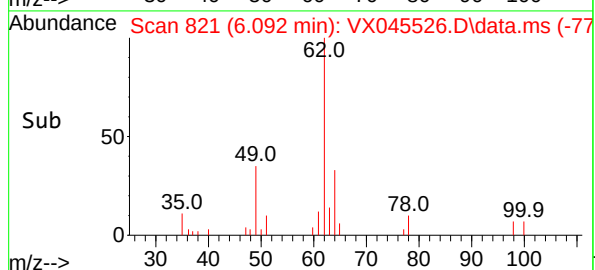
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

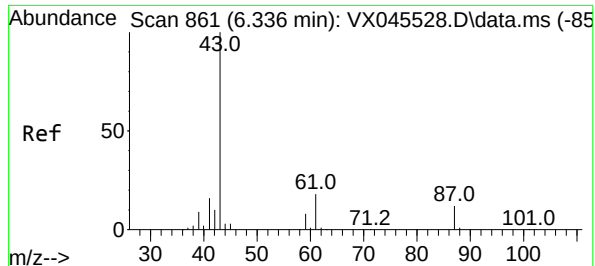


#42
1,2-Dichloroethane
Concen: 4.838 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29



Tgt Ion: 62 Resp: 9713
Ion Ratio Lower Upper
62 100
98 7.7 0.0 15.2





#43

Isopropyl Acetate

Concen: 4.541 ug/l

RT: 6.348 min Scan# 863

Delta R.T. 0.012 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

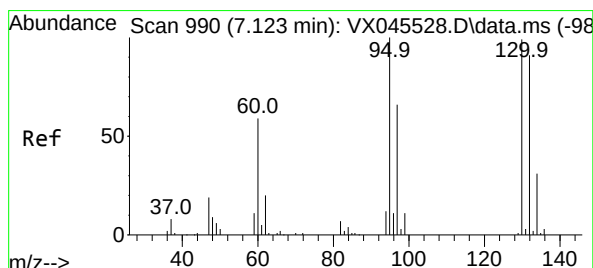
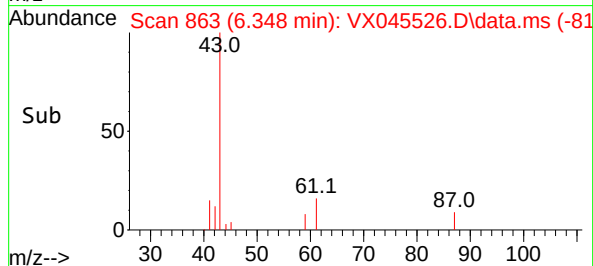
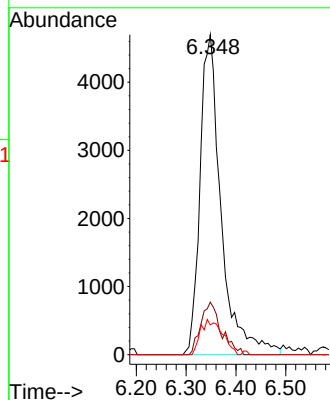
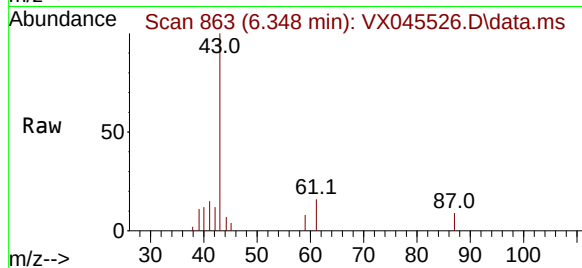
VSTDIC005

Tgt Ion: 43	Resp: 1380
Ion Ratio	Lower Upper
43	100
61	15.8 14.1 21.1
87	11.3 9.2 13.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#44

Trichloroethene

Concen: 4.635 ug/l

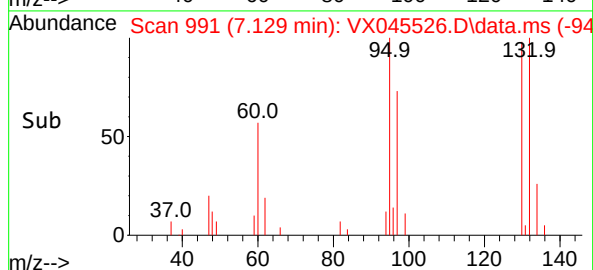
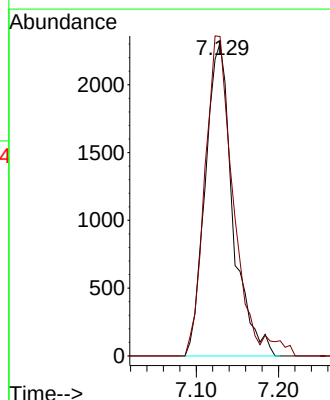
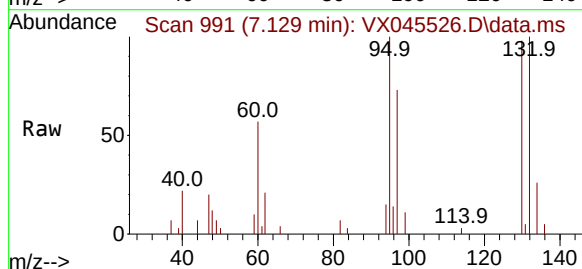
RT: 7.129 min Scan# 991

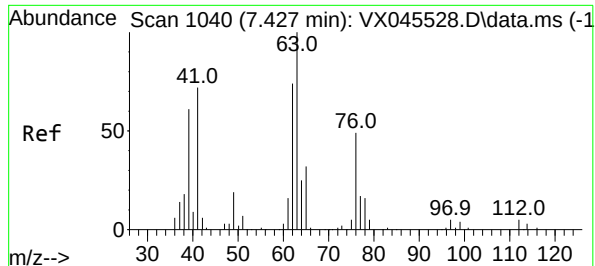
Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:130	Resp: 5355
Ion Ratio	Lower Upper
130	100
95	102.2 0.0 202.0





#45

1,2-Dichloropropane

Concen: 4.997 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 6060

Ion Ratio Lower Upper

63 100

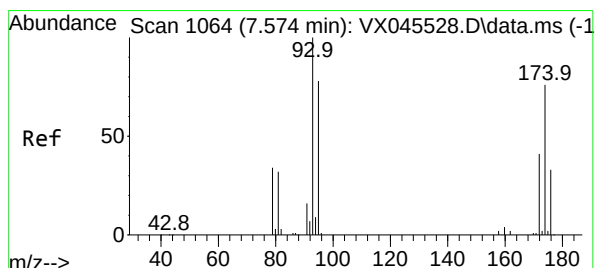
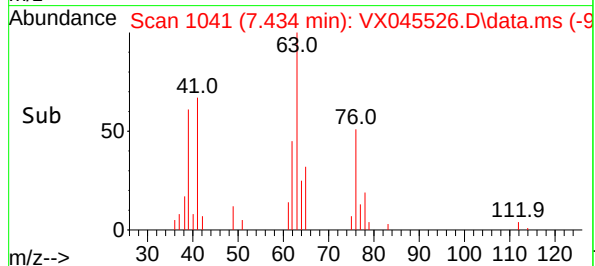
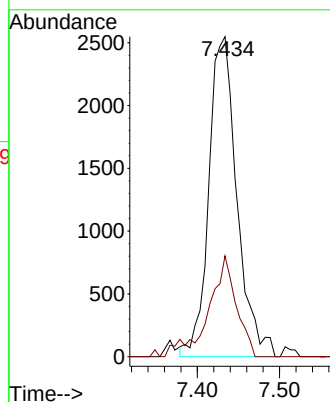
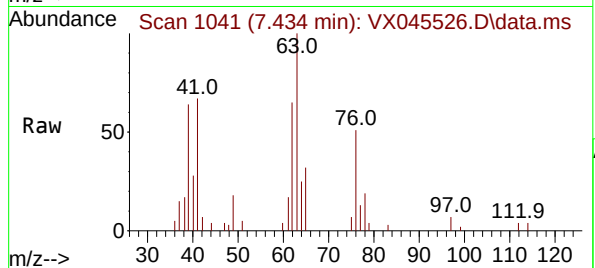
65 31.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#46

Dibromomethane

Concen: 5.120 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

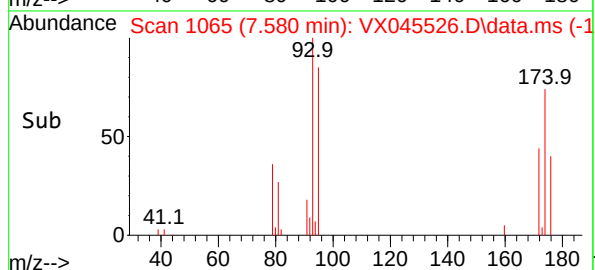
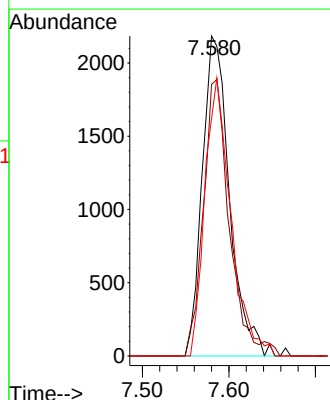
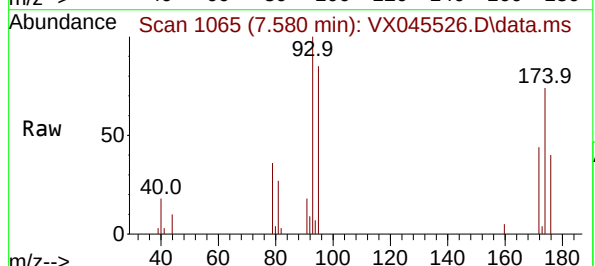
Tgt Ion: 93 Resp: 4767

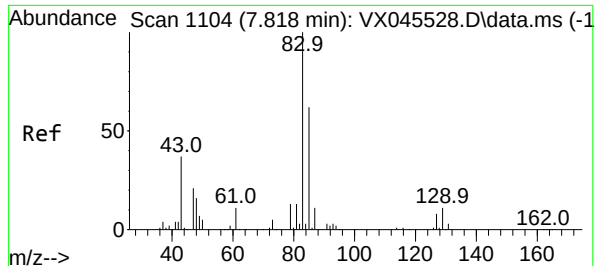
Ion Ratio Lower Upper

93 100

95 81.0 64.8 97.2

174 83.1 65.4 98.0





#47

Bromodichloromethane

Concen: 4.636 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

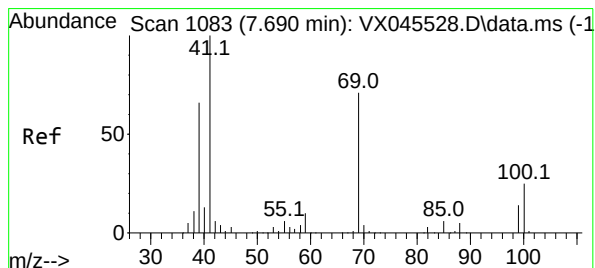
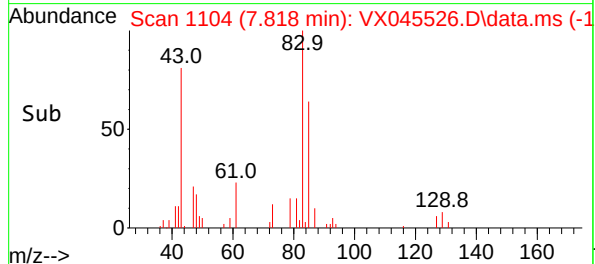
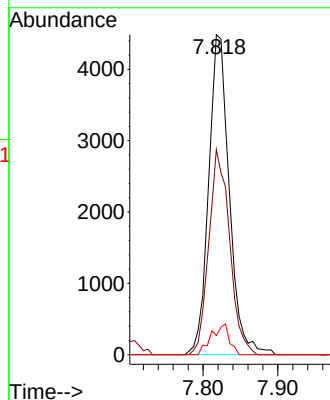
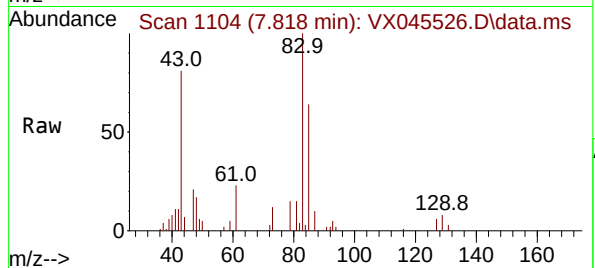
Tgt Ion: 83	Resp: 8619
Ion Ratio	Lower Upper
83	100
85	64.1 49.7 74.5
127	6.0 6.1 9.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#48

Methyl methacrylate

Concen: 4.401 ug/l

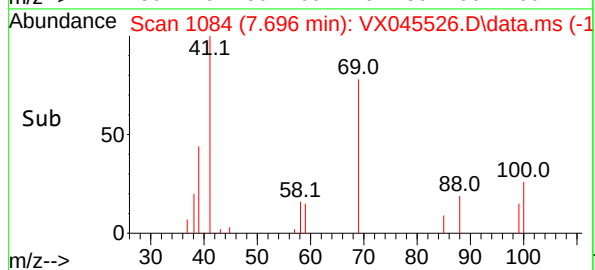
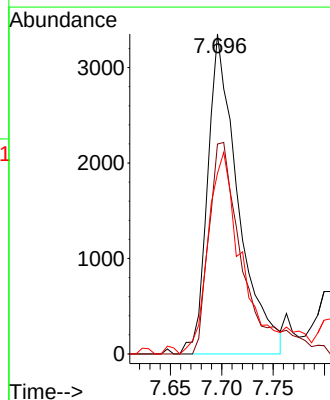
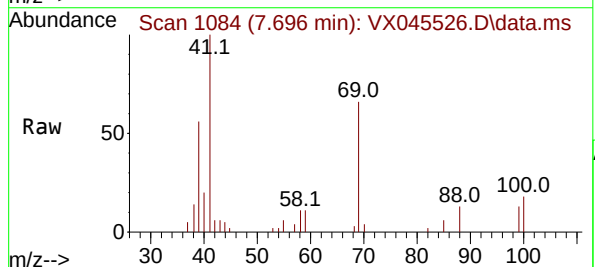
RT: 7.696 min Scan# 1084

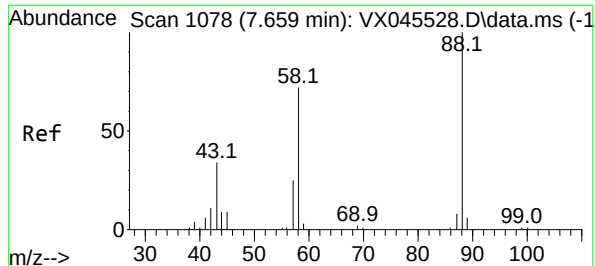
Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion: 41	Resp: 6908
Ion Ratio	Lower Upper
41	100
69	74.6 58.2 87.2
39	68.3 53.6 80.4





#49

1,4-Dioxane

Concen: 112.864 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

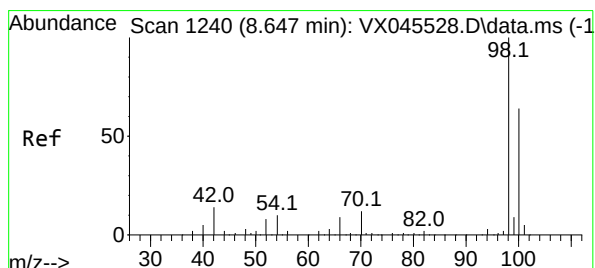
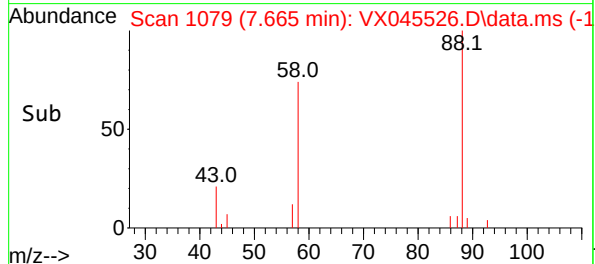
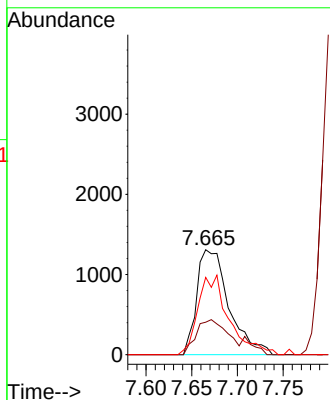
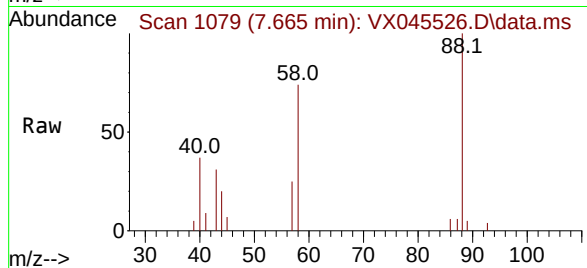
Tgt Ion:	88	Resp:	320
Ion	Ratio	Lower	Upper
88	100		
43	32.4	32.2	48.4
58	72.7	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#50

Toluene-d8

Concen: 5.077 ug/l

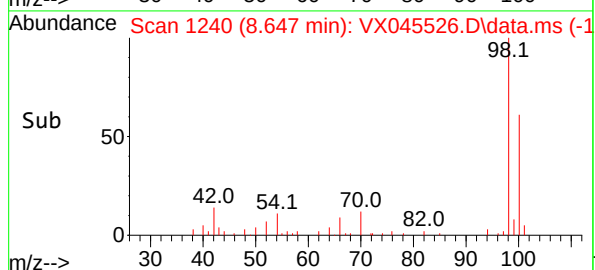
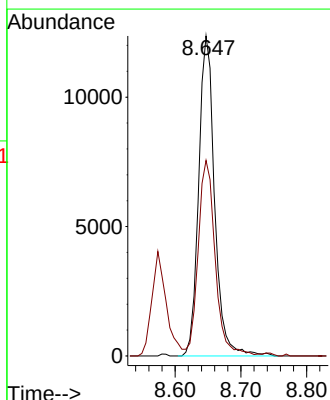
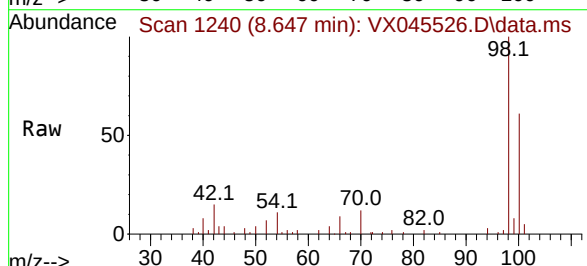
RT: 8.647 min Scan# 1240

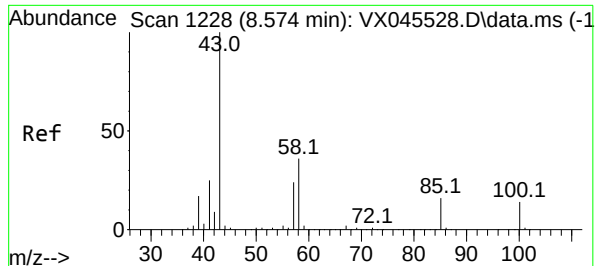
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	98	Resp:	20890
Ion	Ratio	Lower	Upper
98	100		
100	63.5	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 23.844 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 43 Resp: 48050

Ion Ratio Lower Upper

43 100

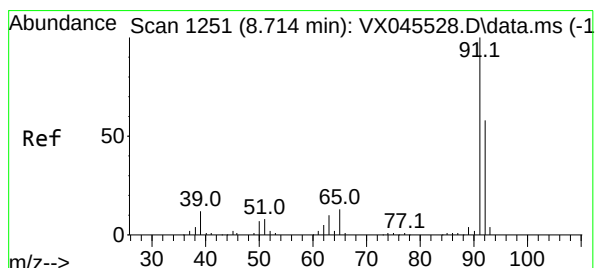
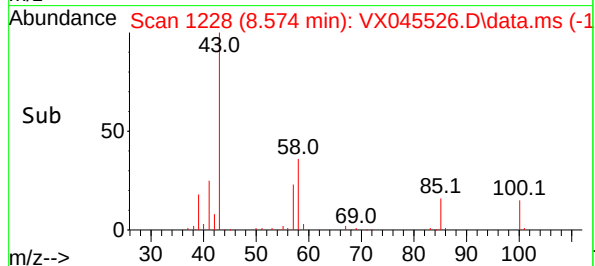
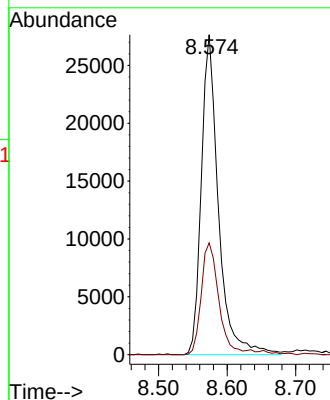
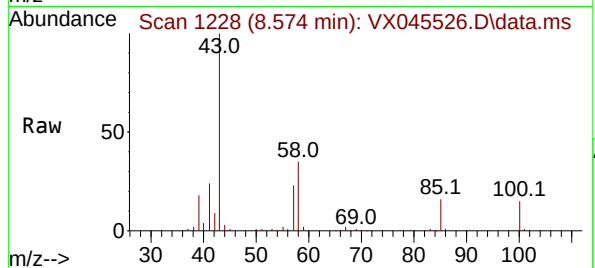
58 37.3 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#52

Toluene

Concen: 4.893 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX045526.D

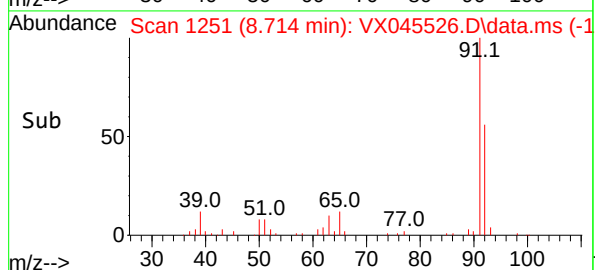
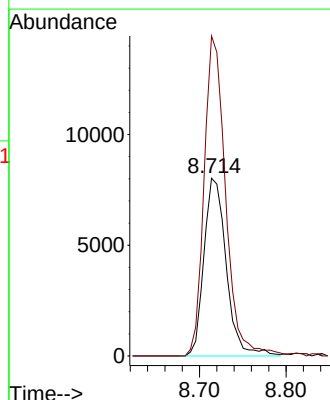
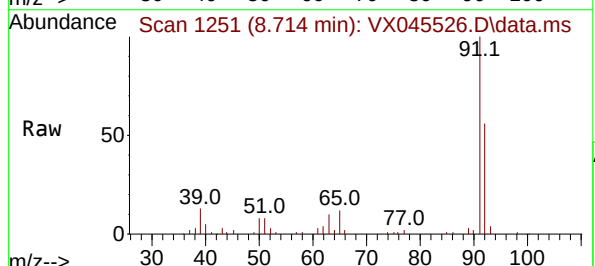
Acq: 01 Apr 2025 17:29

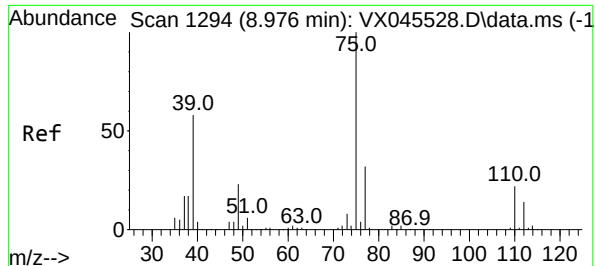
Tgt Ion: 92 Resp: 14391

Ion Ratio Lower Upper

92 100

91 173.1 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 5.834 ug/l

RT: 8.982 min Scan# 1194

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 664

Ion Ratio Lower Upper

75 100

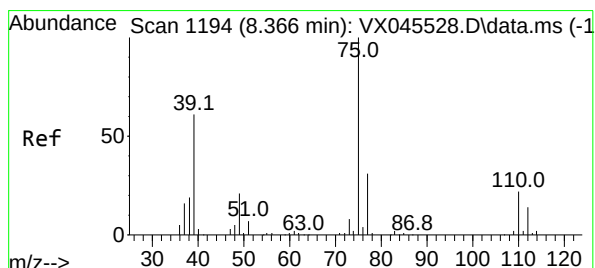
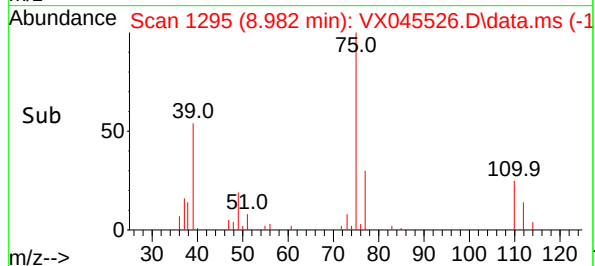
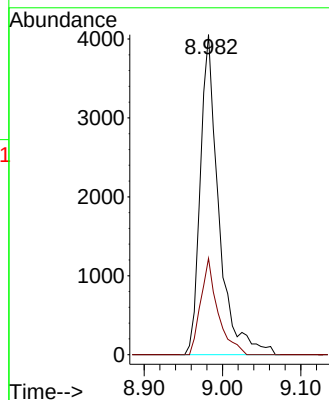
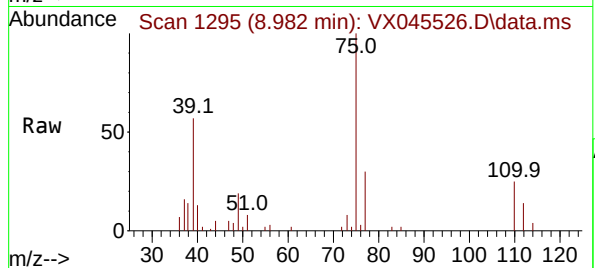
77 30.1 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#54

cis-1,3-Dichloropropene

Concen: 4.506 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

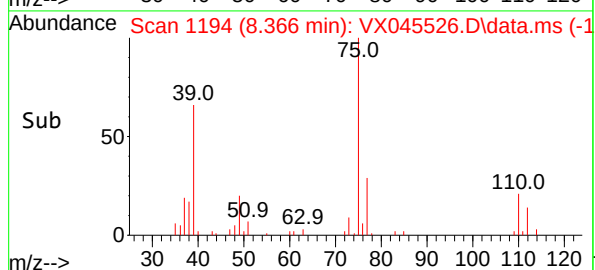
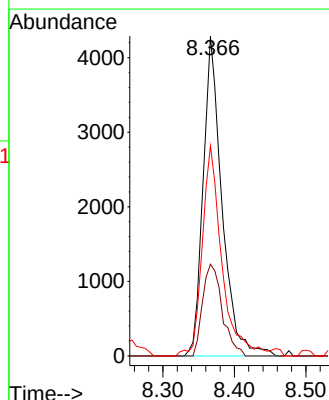
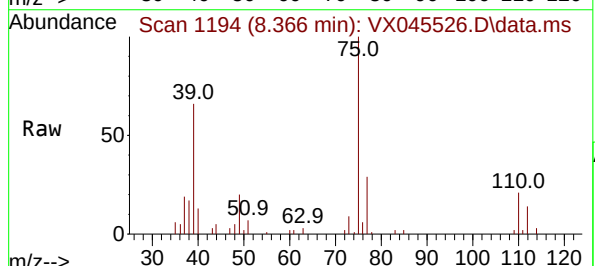
Tgt Ion: 75 Resp: 7873

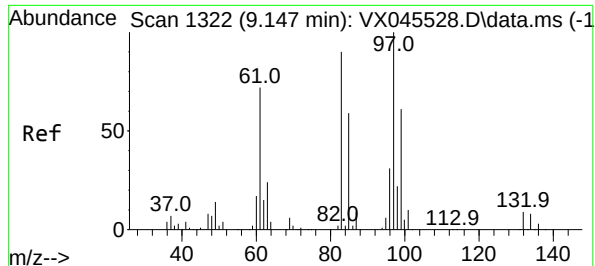
Ion Ratio Lower Upper

75 100

77 28.6 24.6 36.8

39 64.4 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 4.898 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 97 Resp: 574

Ion Ratio Lower Upper

97 100

83 96.8 71.8 107.8

85 52.9 47.0 70.6

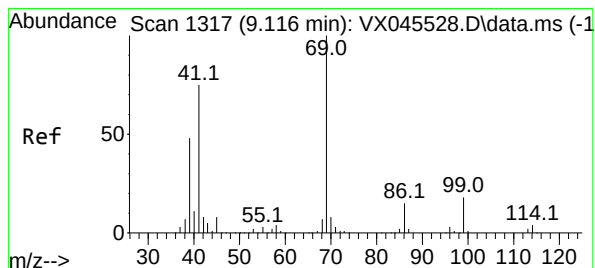
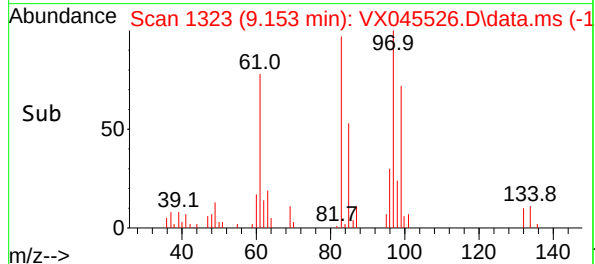
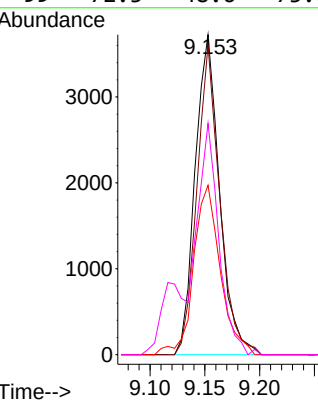
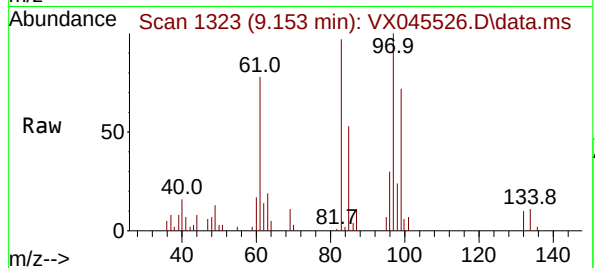
99 72.3 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#56

Ethyl methacrylate

Concen: 4.417 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

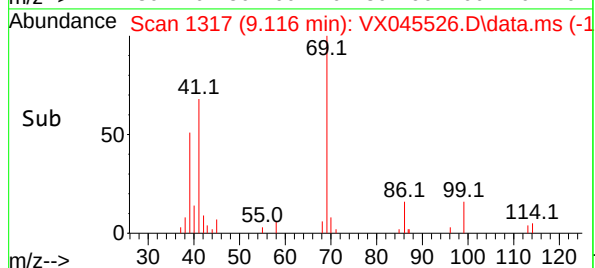
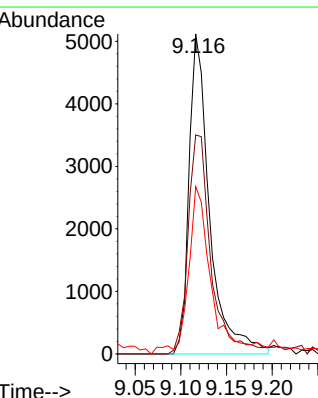
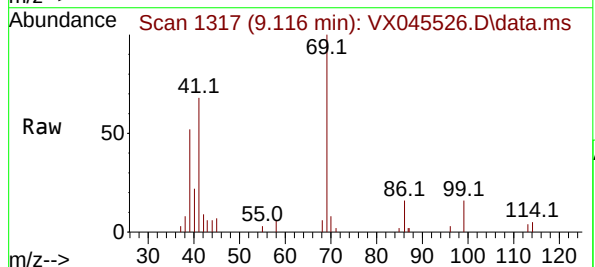
Tgt Ion: 69 Resp: 8012

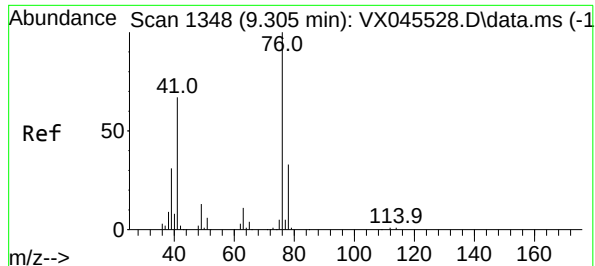
Ion Ratio Lower Upper

69 100

41 75.8 61.3 91.9

39 58.5 40.2 60.2





#57

1,3-Dichloropropane

Concen: 5.002 ug/l

RT: 9.305 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 10208

Ion Ratio Lower Upper

76 100

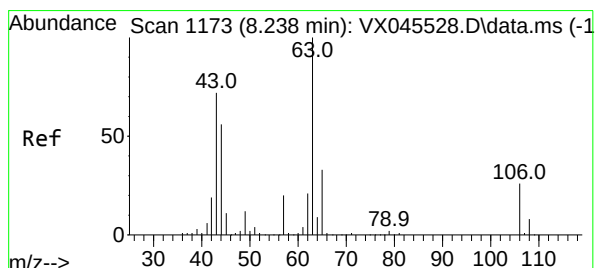
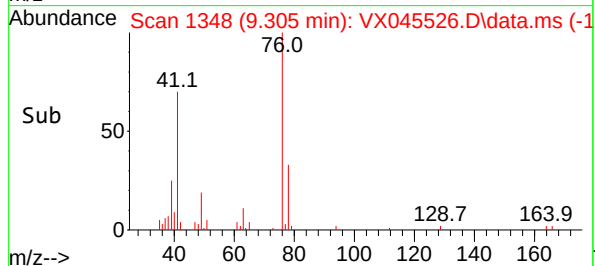
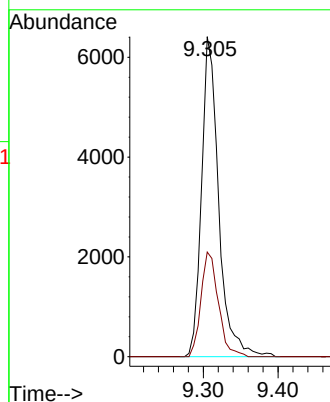
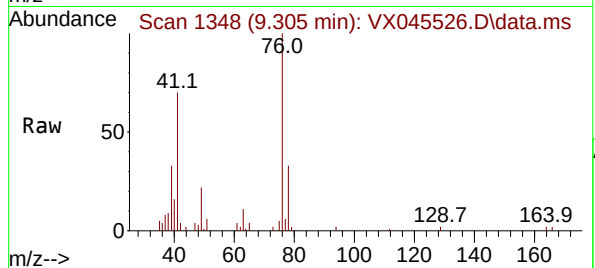
78 33.1 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#58

2-Chloroethyl Vinyl ether

Concen: 23.302 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.006 min

Lab File: VX045526.D

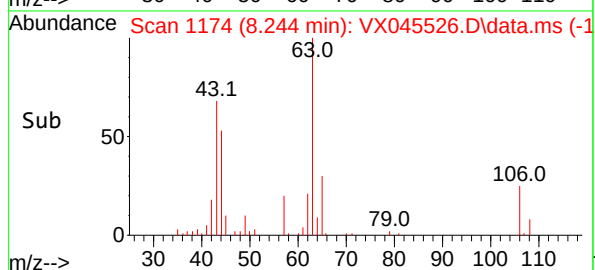
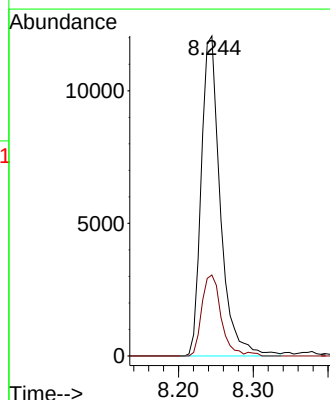
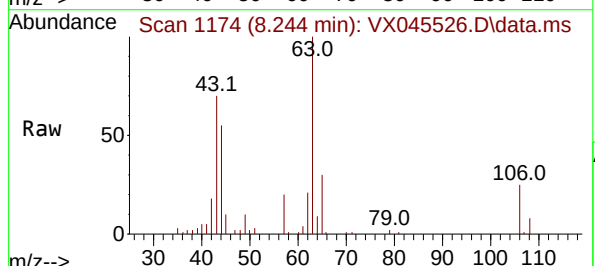
Acq: 01 Apr 2025 17:29

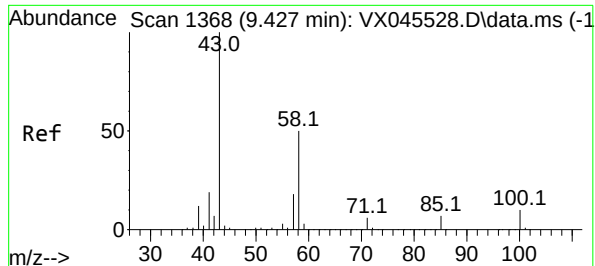
Tgt Ion: 63 Resp: 21382

Ion Ratio Lower Upper

63 100

106 25.8 21.0 31.6





#59

2-Hexanone

Concen: 23.875 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 35628

Ion Ratio Lower Upper

43 100

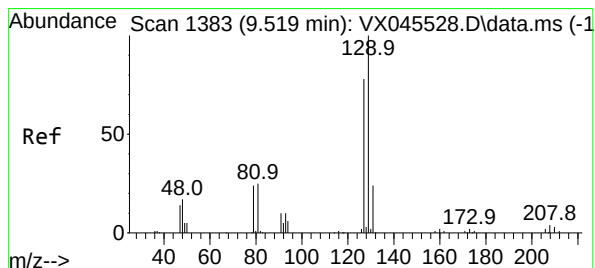
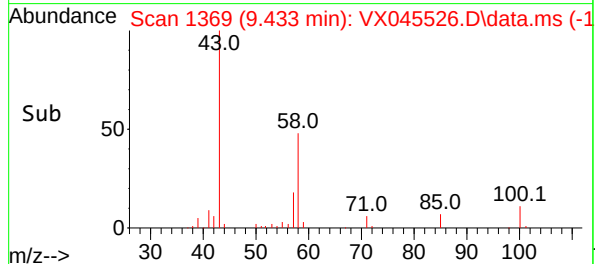
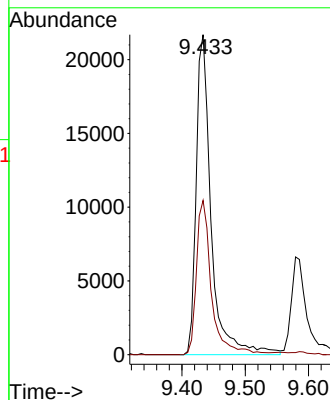
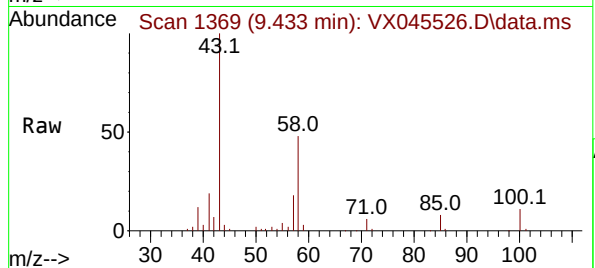
58 48.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#60

Dibromochloromethane

Concen: 4.582 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045526.D

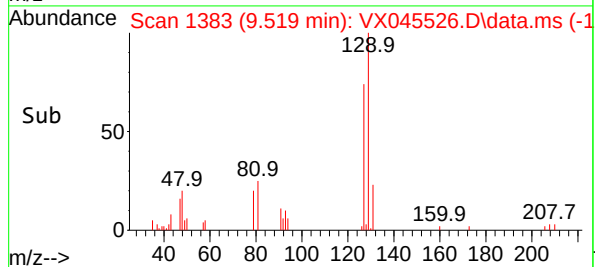
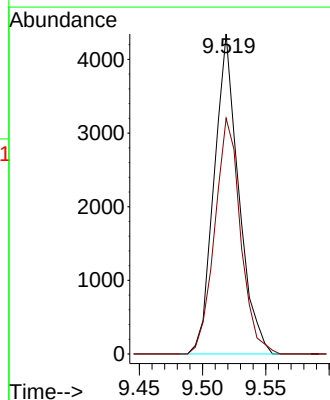
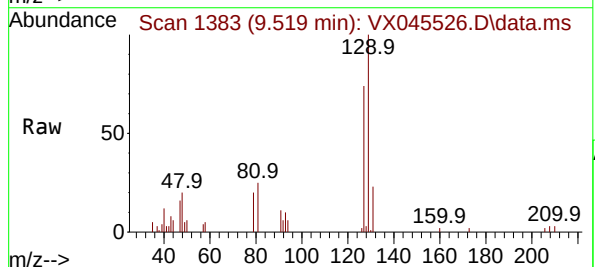
Acq: 01 Apr 2025 17:29

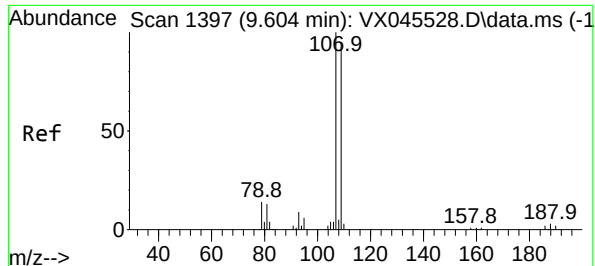
Tgt Ion:129 Resp: 5855

Ion Ratio Lower Upper

129 100

127 77.5 39.4 118.2





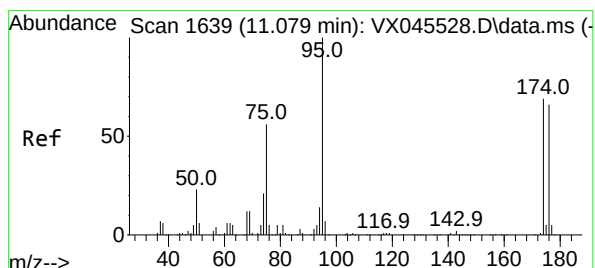
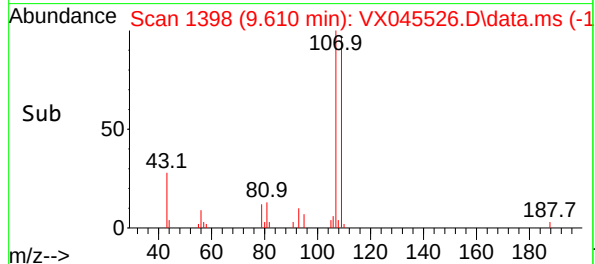
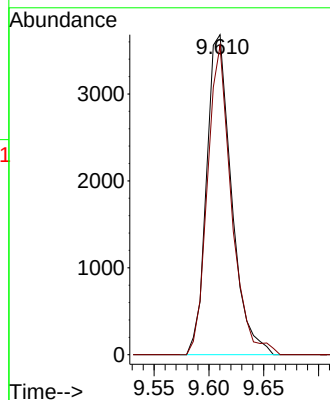
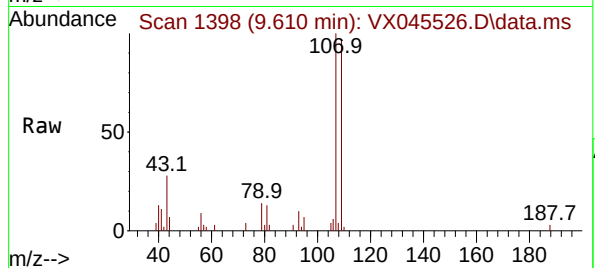
#61
1,2-Dibromoethane
Concen: 4.920 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:107 Resp: 583
Ion Ratio Lower Upper
107 100
109 93.0 75.7 113.5

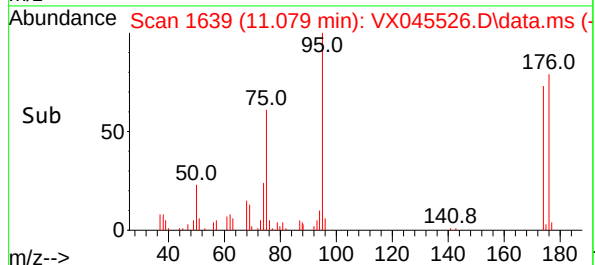
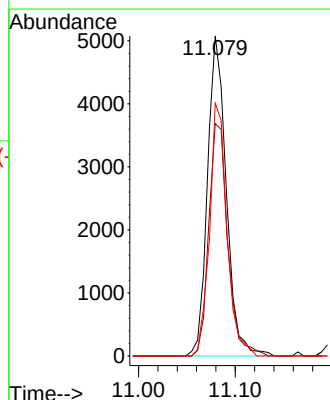
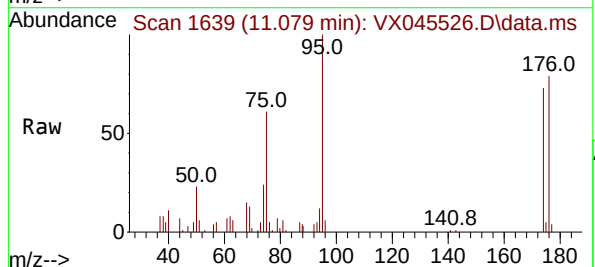
Manual Integrations
APPROVED

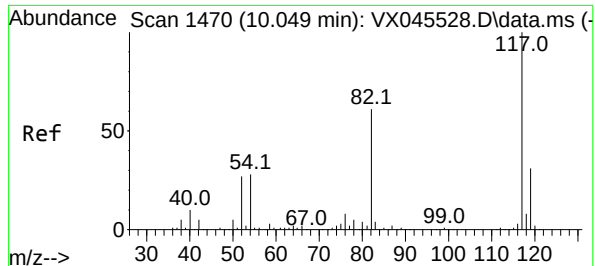
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#62
4-Bromofluorobenzene
Concen: 4.582 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

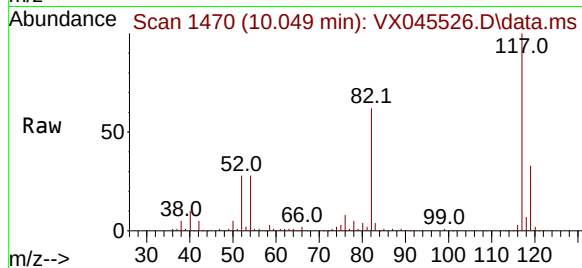
Tgt Ion: 95 Resp: 6867
Ion Ratio Lower Upper
95 100
174 73.1 0.0 135.8
176 73.3 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

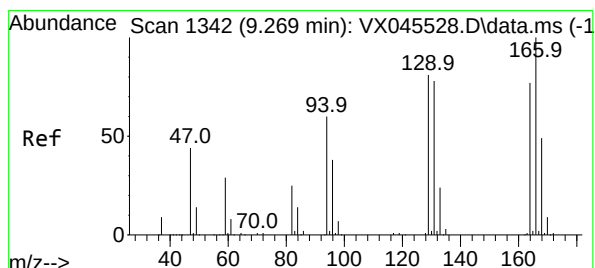
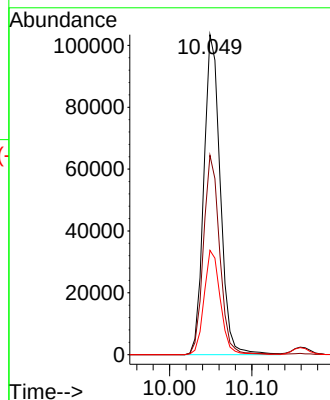
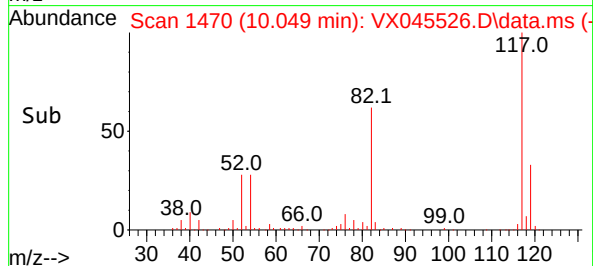
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:117 Resp: 14393
Ion Ratio Lower Upper
117 100
82 62.3 49.2 73.8
119 32.6 25.1 37.7

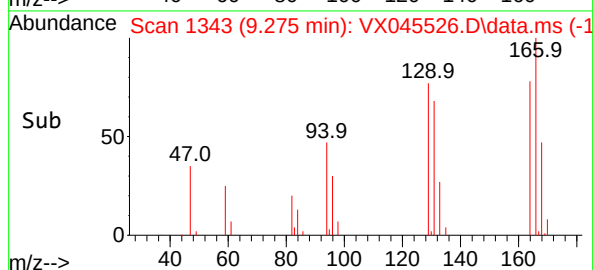
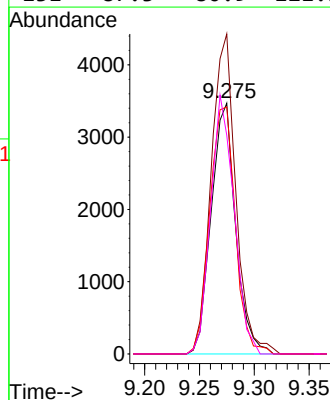
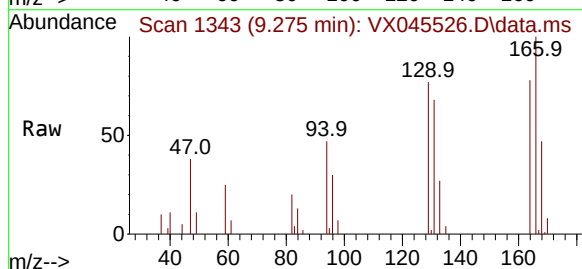
Manual Integrations
APPROVED

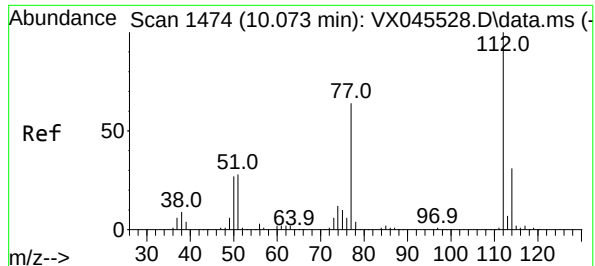
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#64
Tetrachloroethene
Concen: 5.287 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion:164 Resp: 5373
Ion Ratio Lower Upper
164 100
166 127.6 103.8 155.8
129 98.6 84.3 126.5
131 87.3 80.9 121.3





#65

Chlorobenzene

Concen: 4.935 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:112 Resp: 15178

Ion Ratio Lower Upper

112 100

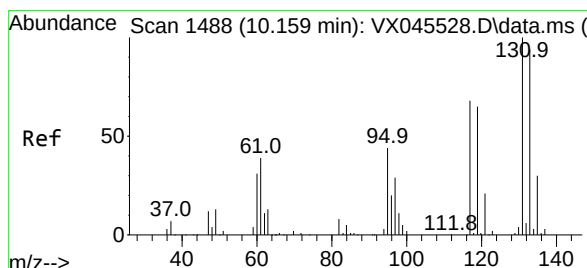
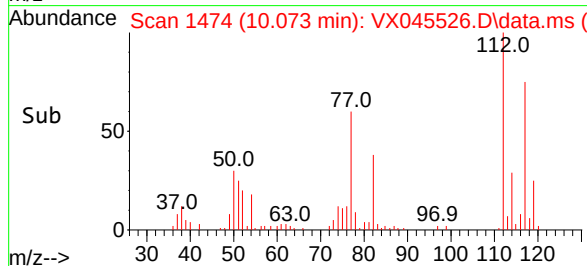
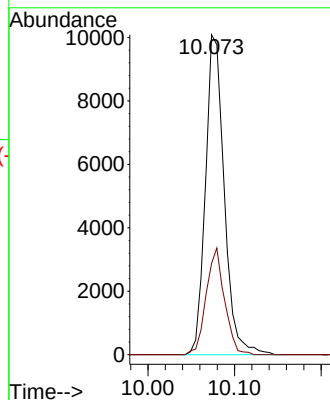
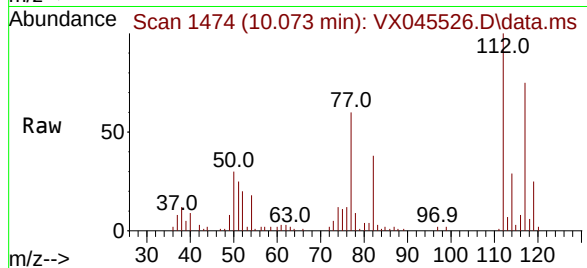
114 28.5 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 4.631 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

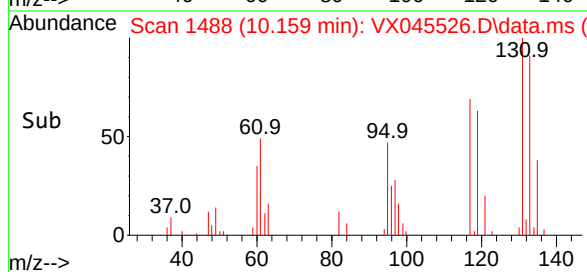
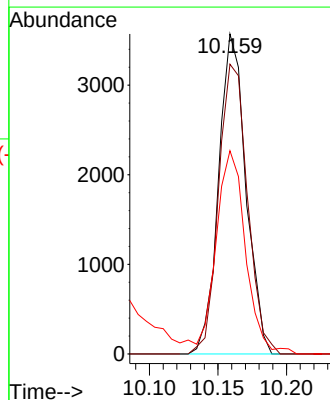
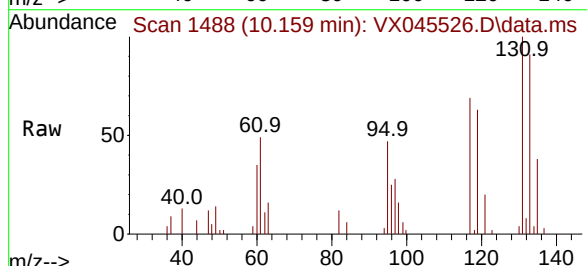
Tgt Ion:131 Resp: 4945

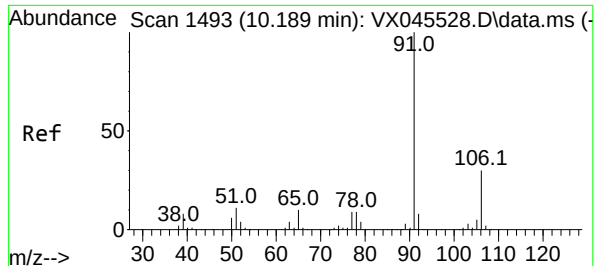
Ion Ratio Lower Upper

131 100

133 95.6 47.5 142.5

119 70.0 32.9 98.6





#67

Ethyl Benzene

Concen: 4.753 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 26180

Ion Ratio Lower Upper

91 100

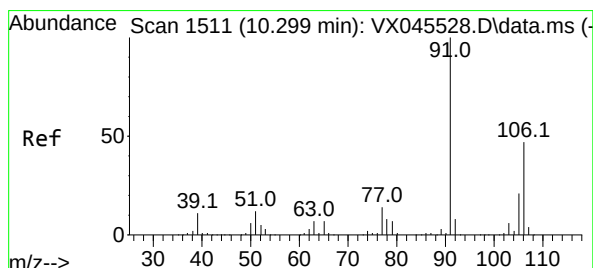
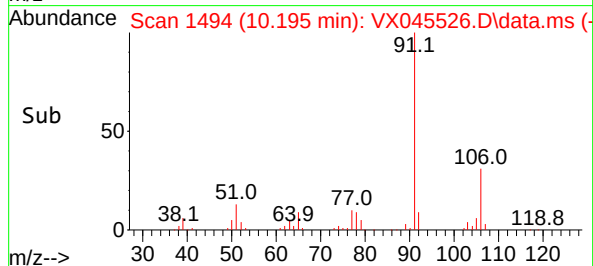
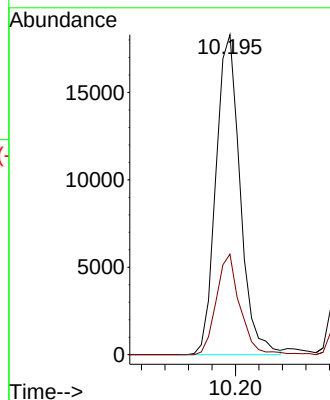
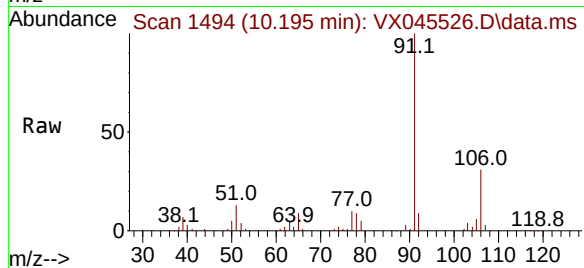
106 31.4 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#68

m/p-Xylenes

Concen: 9.617 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045526.D

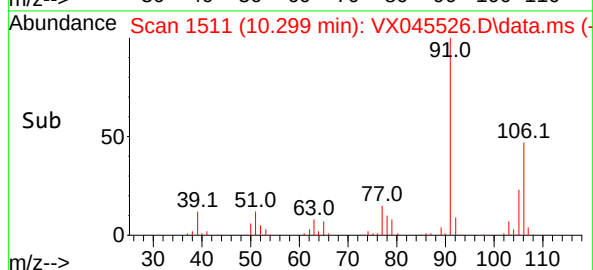
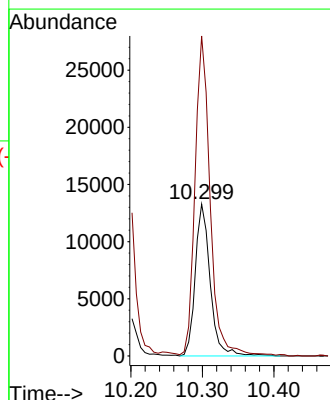
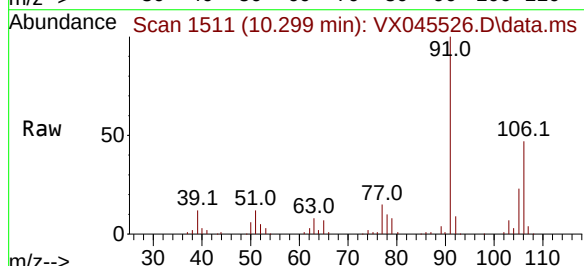
Acq: 01 Apr 2025 17:29

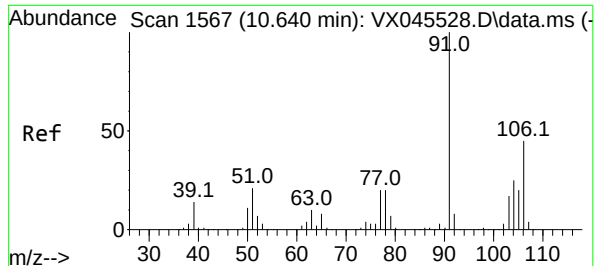
Tgt Ion:106 Resp: 19268

Ion Ratio Lower Upper

106 100

91 213.6 172.6 258.8





#69

o-Xylene

Concen: 4.932 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:106 Resp: 9735

Ion Ratio Lower Upper

106 100

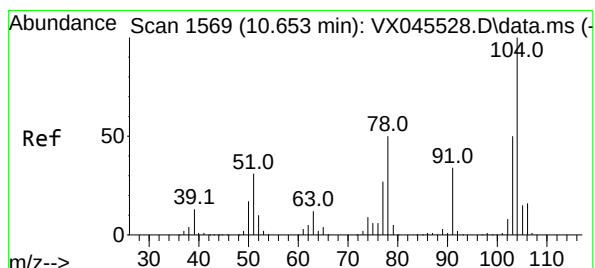
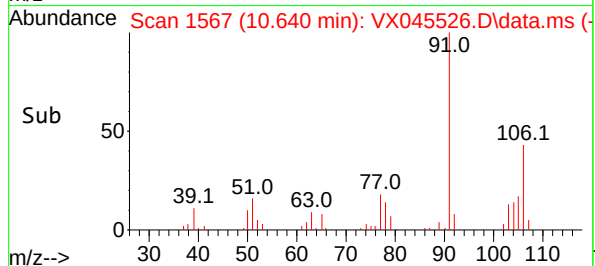
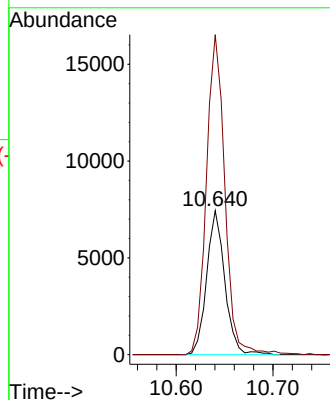
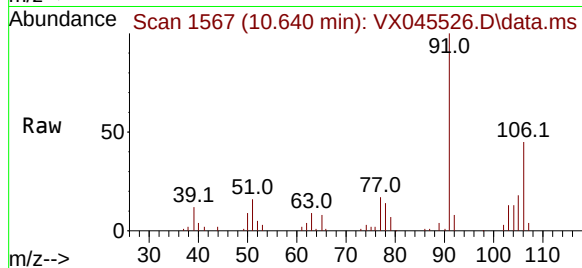
91 225.8 113.6 340.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#70

Styrene

Concen: 4.610 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

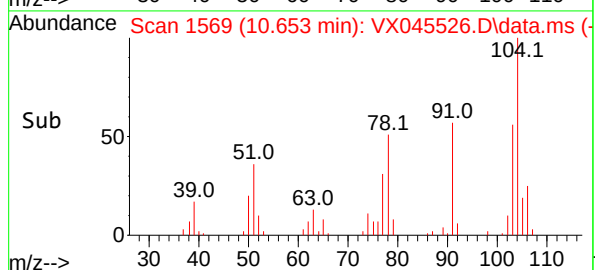
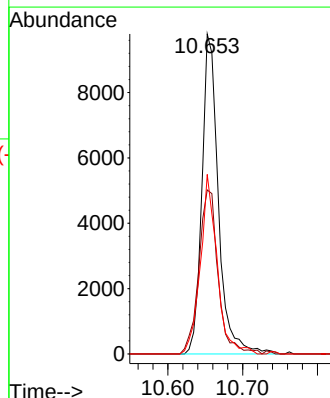
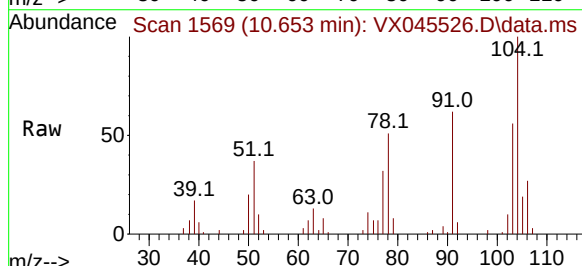
Tgt Ion:104 Resp: 15017

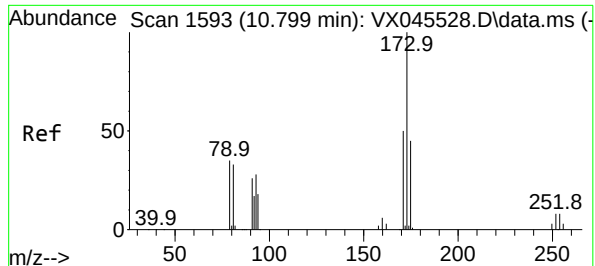
Ion Ratio Lower Upper

104 100

78 59.8 45.4 68.2

103 57.1 43.8 65.8





#71

Bromoform

Concen: 4.558 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

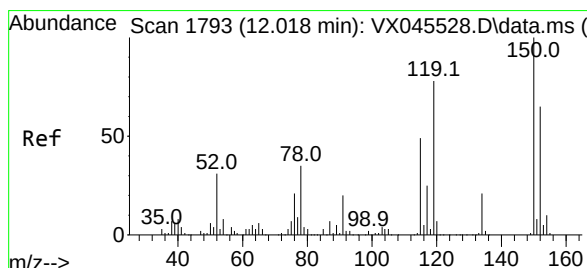
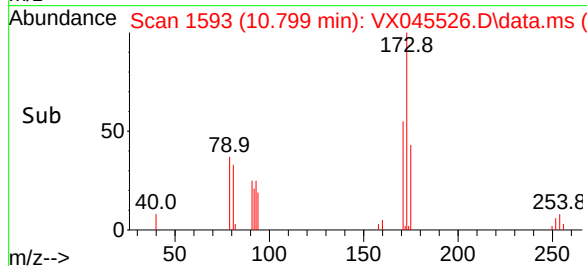
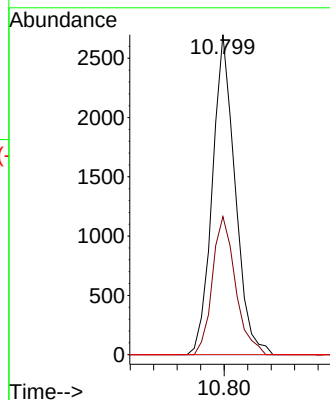
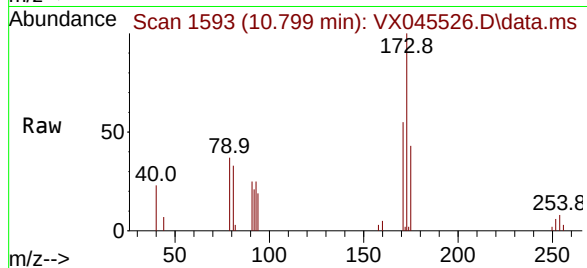
VSTDIC005

Tgt Ion:173	Resp:	3634
Ion Ratio	Lower	Upper
173	100	
175	43.7	23.4 70.2
254	0.0	0.0 0.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

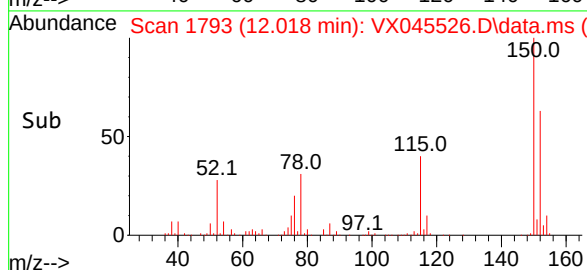
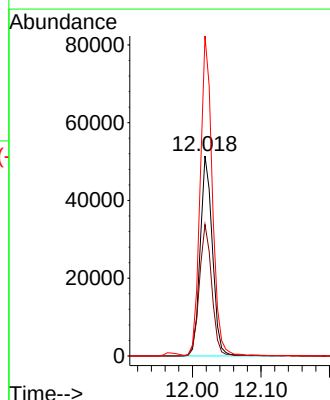
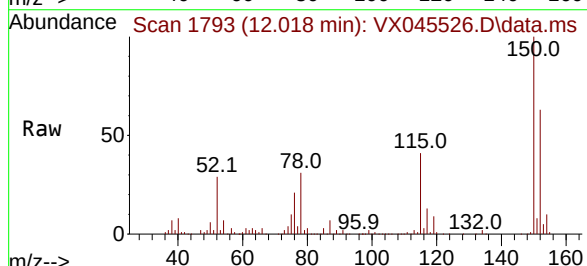
RT: 12.018 min Scan# 1793

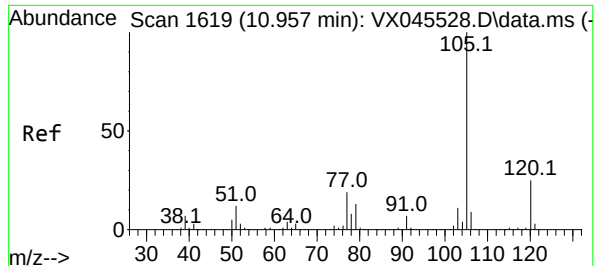
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:152	Resp:	63909
Ion Ratio	Lower	Upper
152	100	
115	66.5	46.9 140.7
150	157.5	0.0 349.4





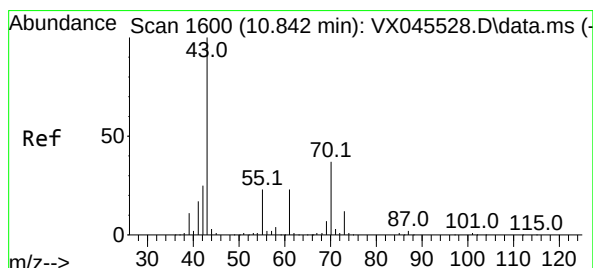
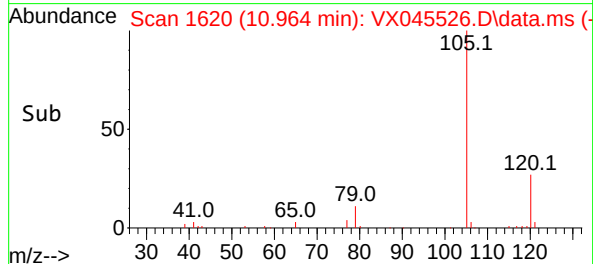
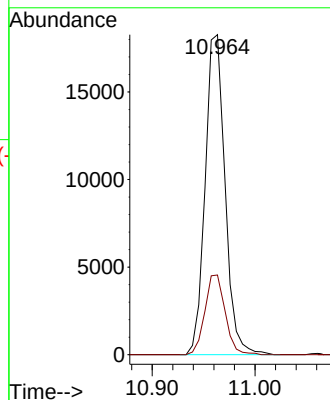
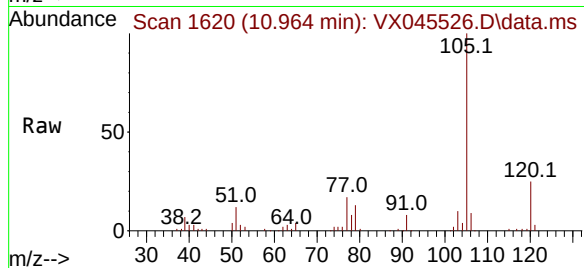
#73
Isopropylbenzene
Concen: 4.806 ug/l
RT: 10.964 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:105 Resp: 2460
Ion Ratio Lower Upper
105 100
120 25.5 12.7 38.0

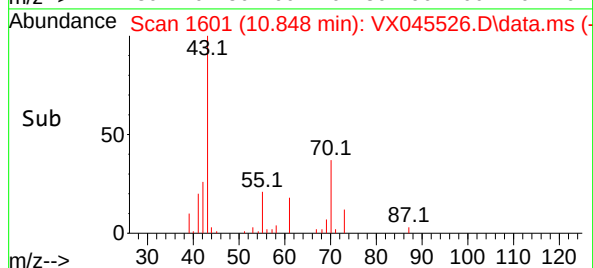
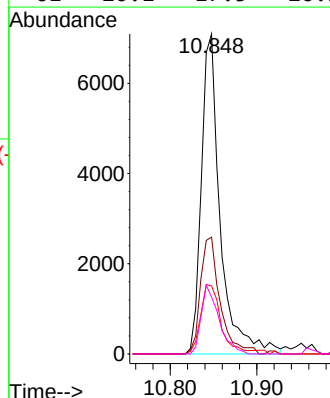
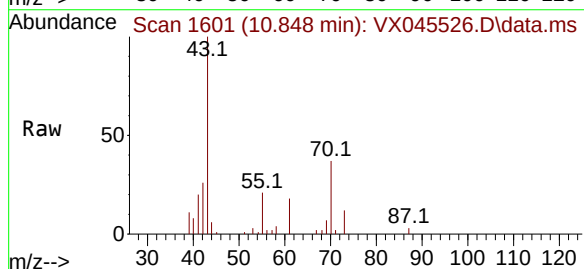
Manual Integrations
APPROVED

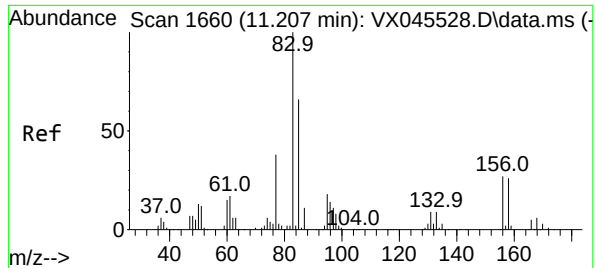
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#74
N-ethyl acetate
Concen: 4.390 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 43 Resp: 10750
Ion Ratio Lower Upper
43 100
70 37.8 30.1 45.1
55 23.0 18.3 27.5
61 20.1 17.5 26.3





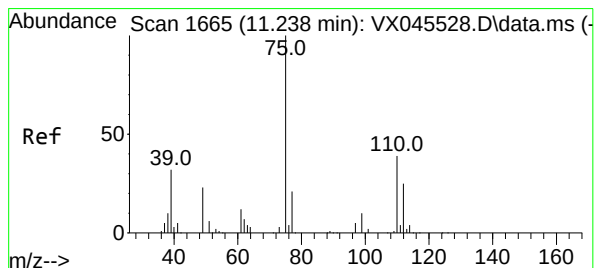
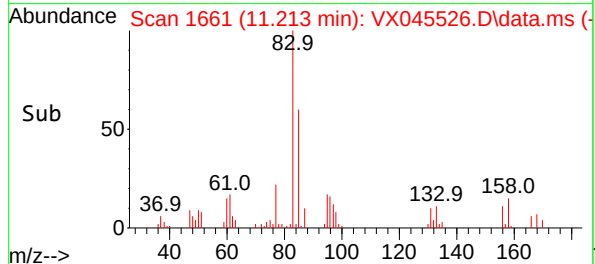
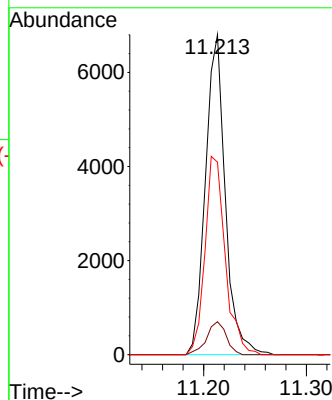
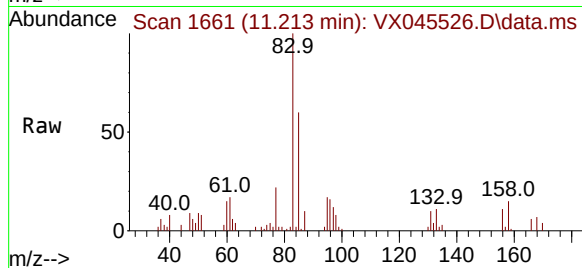
#75
1,1,2,2-Tetrachloroethane
Concen: 5.075 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion: 83 Resp: 912
Ion Ratio Lower Upper
83 100
131 10.2 4.7 14.1
85 63.5 32.4 97.2

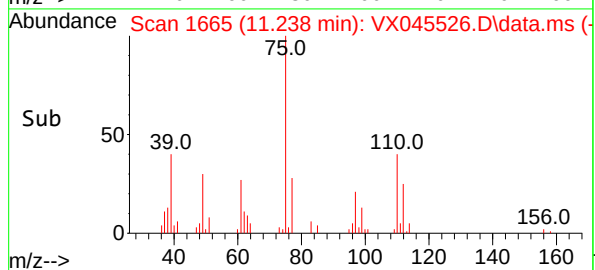
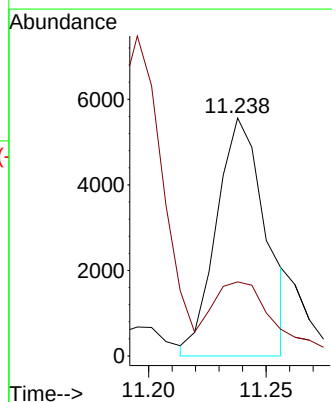
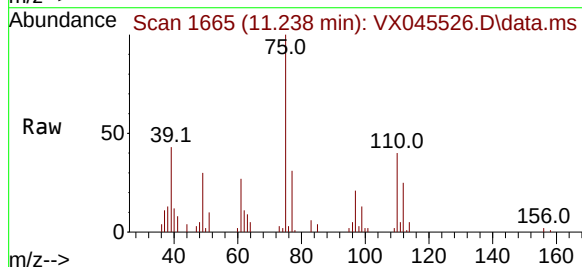
Manual Integrations
APPROVED

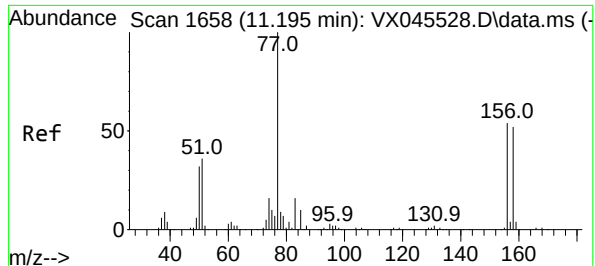
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#76
1,2,3-Trichloropropane
Concen: 5.152 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

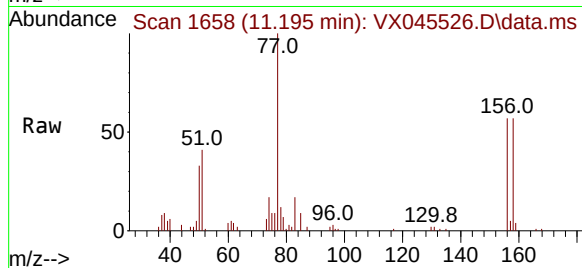
Tgt Ion: 75 Resp: 8032
Ion Ratio Lower Upper
75 100
77 40.2 20.0 59.9





#77
Bromobenzene
Concen: 5.011 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

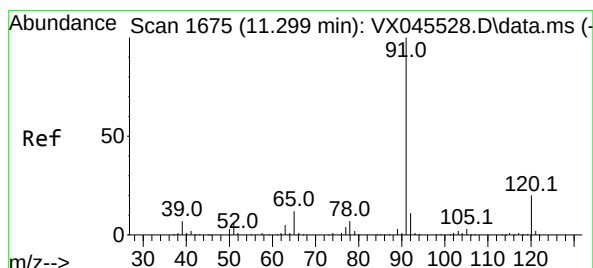
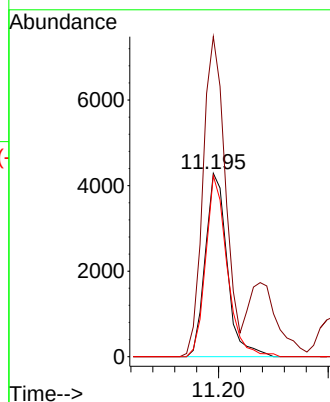
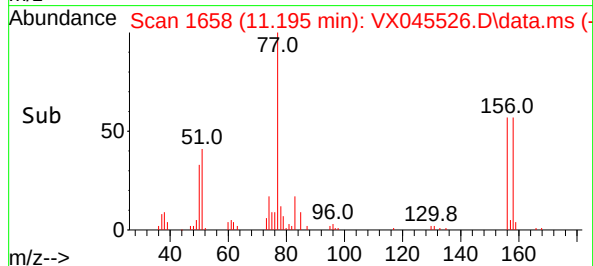
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



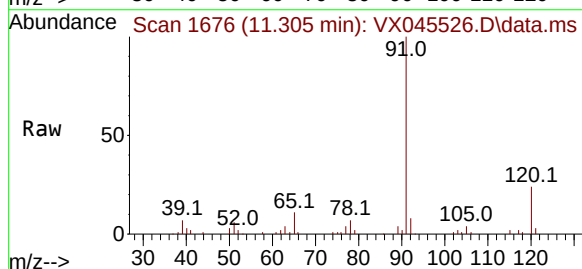
Tgt Ion: 156 Resp: 592
Ion Ratio Lower Upper
156 100
77 178.8 92.6 277.8
158 97.0 48.1 144.4

Manual Integrations
APPROVED

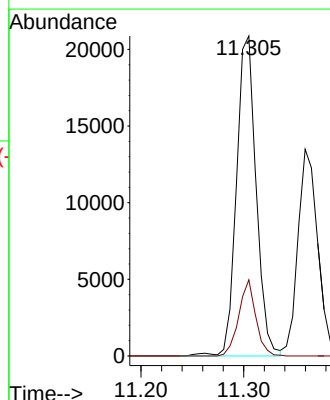
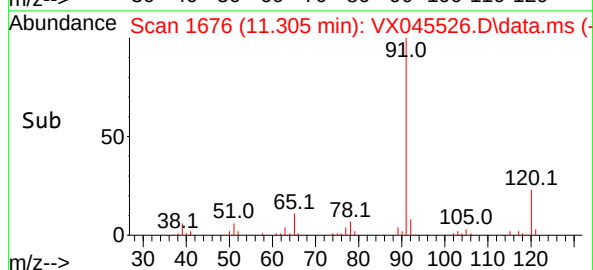
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

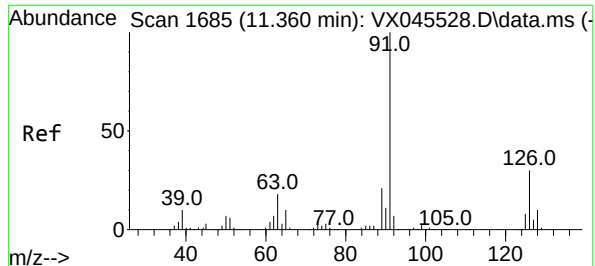


#78
n-propylbenzene
Concen: 4.711 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29



Tgt Ion: 91 Resp: 27777
Ion Ratio Lower Upper
91 100
120 20.6 10.8 32.3





#79

2-Chlorotoluene

Concen: 4.870 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 1835

Ion Ratio Lower Upper

91 100

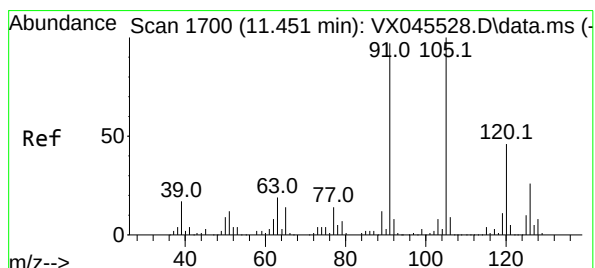
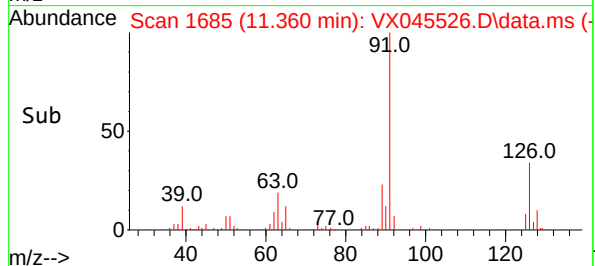
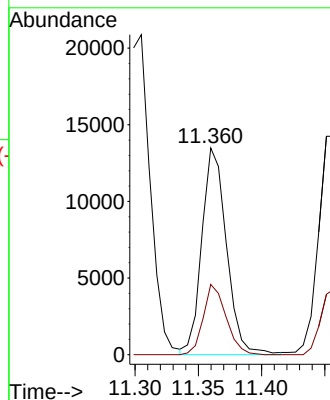
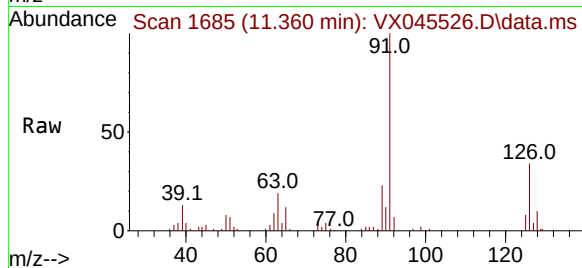
126 31.3 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#80

1,3,5-Trimethylbenzene

Concen: 4.710 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045526.D

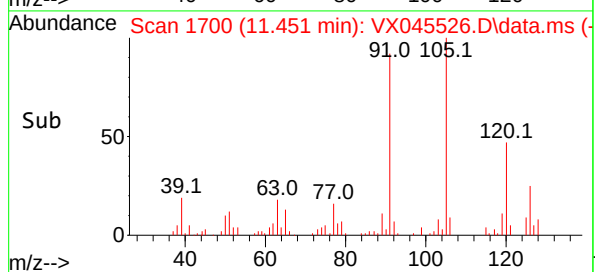
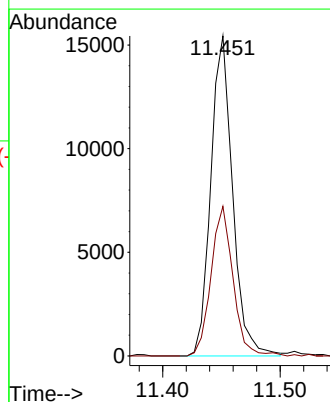
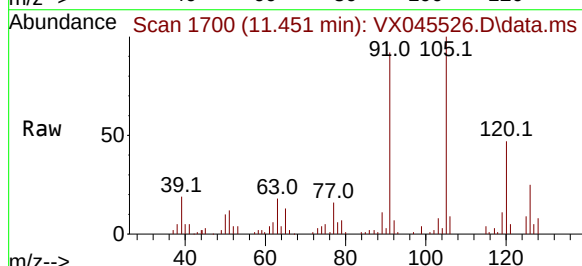
Acq: 01 Apr 2025 17:29

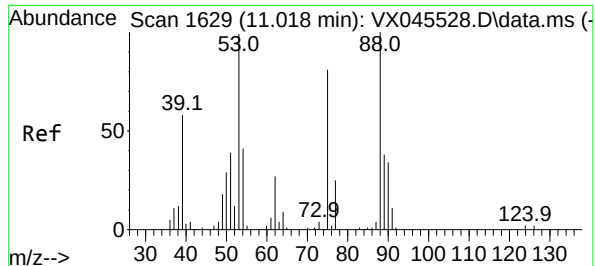
Tgt Ion:105 Resp: 19936

Ion Ratio Lower Upper

105 100

120 47.1 23.0 69.0





#81

trans-1,4-Dichloro-2-butene

Concen: 3.814 ug/l

RT: 11.018 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

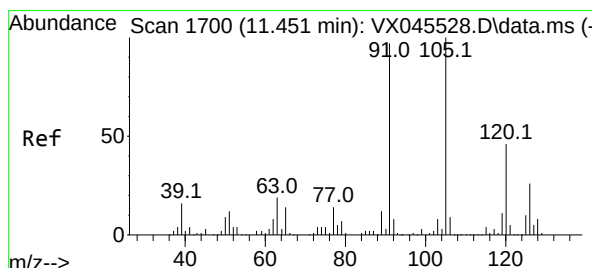
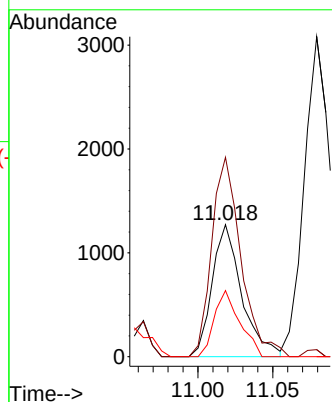
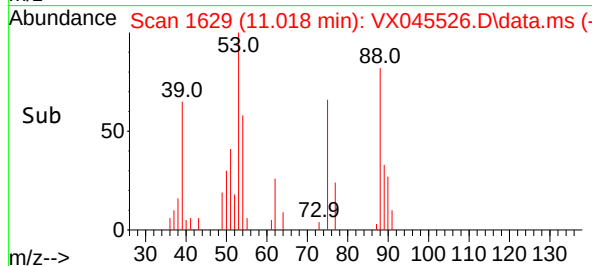
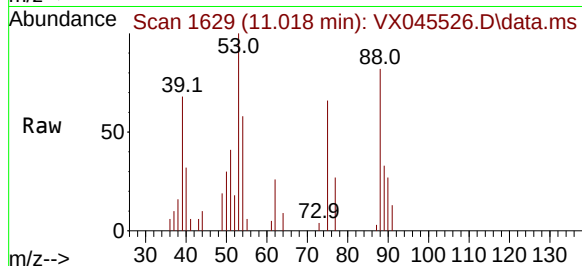
Tgt Ion:	75	Resp:	175
Ion	Ratio	Lower	Upper
75	100		
53	149.1	101.8	152.6
89	43.1	37.2	55.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#82

4-Chlorotoluene

Concen: 4.799 ug/l

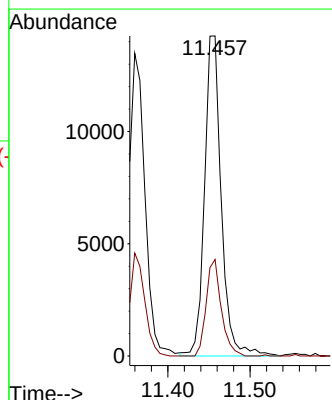
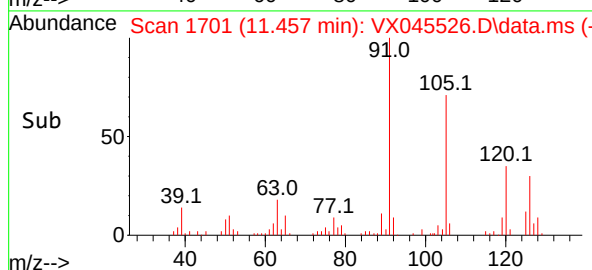
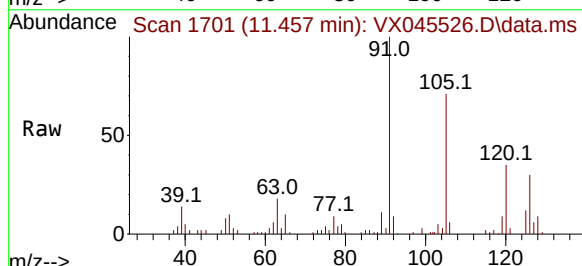
RT: 11.457 min Scan# 1701

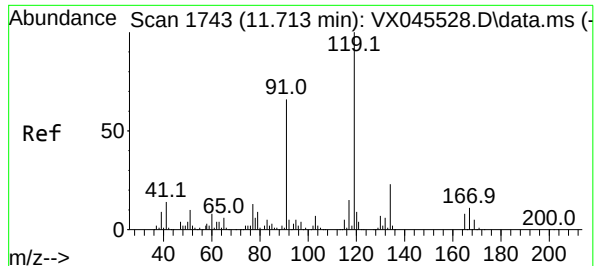
Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	91	Resp:	20171
Ion	Ratio	Lower	Upper
91	100		
126	27.2	13.3	39.9





#83

tert-Butylbenzene

Concen: 4.763 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

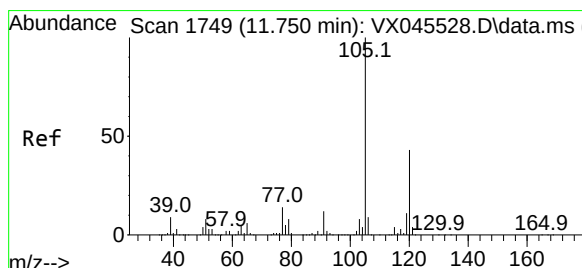
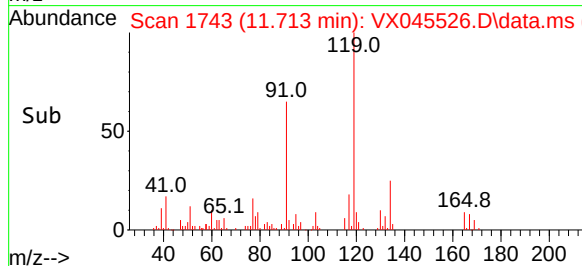
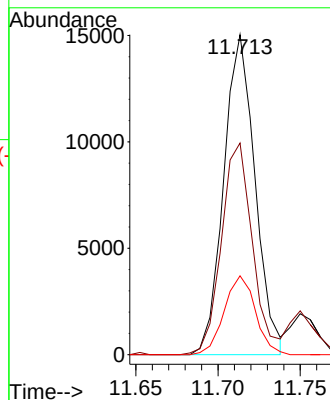
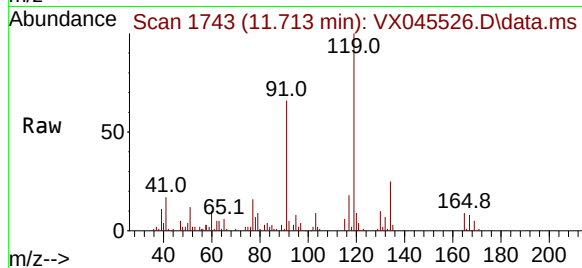
VSTDIC005

Tgt Ion:	119	Resp:	1996
Ion Ratio	Lower	Upper	
119	100		
91	65.7	32.4	97.2
134	24.6	11.5	34.5

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#84

1,2,4-Trimethylbenzene

Concen: 4.707 ug/l

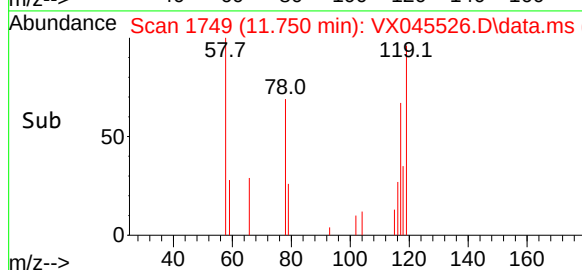
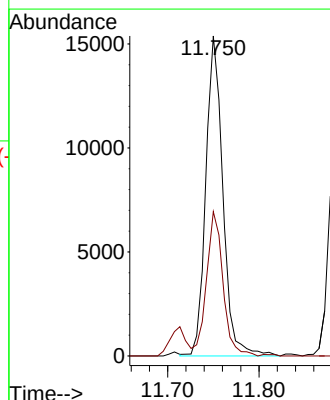
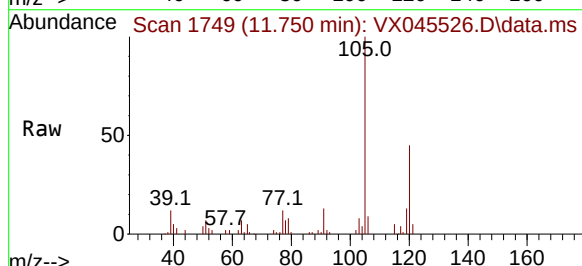
RT: 11.750 min Scan# 1749

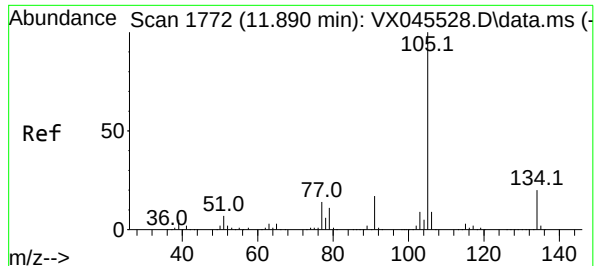
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	105	Resp:	19998
Ion Ratio	Lower	Upper	
105	100		
120	43.5	21.4	64.3





#85

sec-Butylbenzene

Concen: 4.753 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:105 Resp: 2446

Ion Ratio Lower Upper

105 100

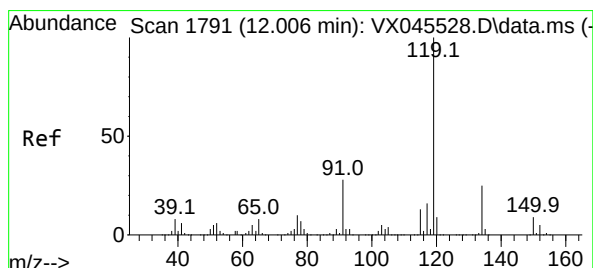
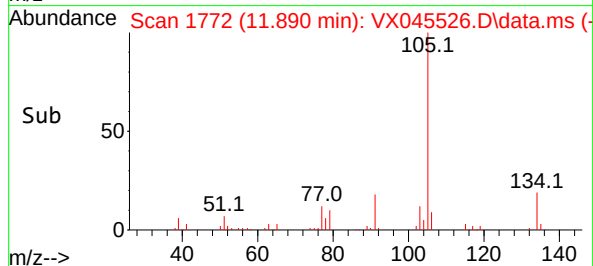
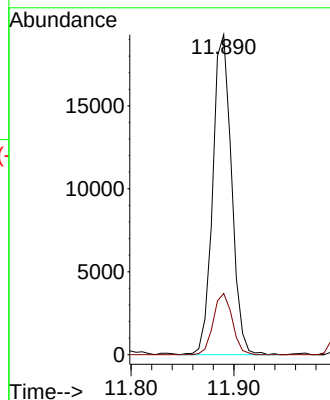
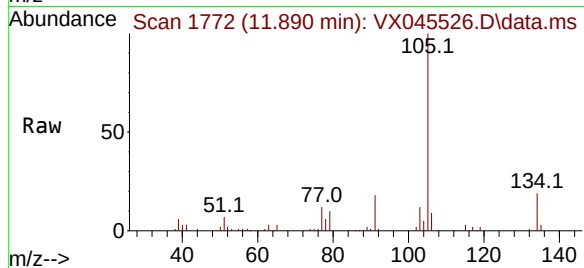
134 19.3 9.6 28.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#86

p-Isopropyltoluene

Concen: 4.755 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

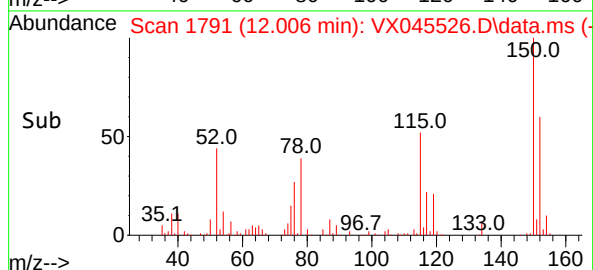
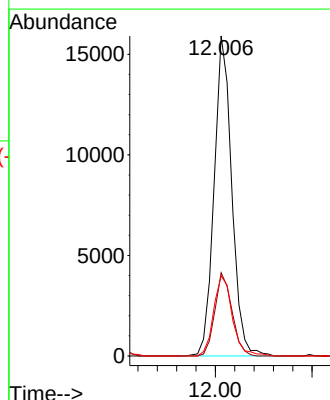
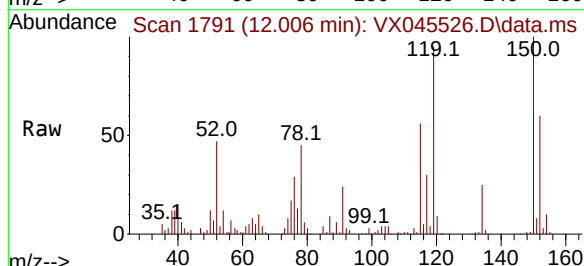
Tgt Ion:119 Resp: 20178

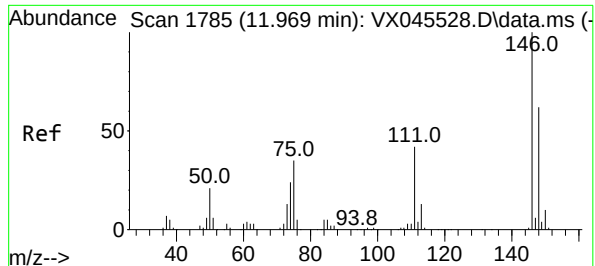
Ion Ratio Lower Upper

119 100

134 25.1 12.6 37.8

91 26.4 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 4.763 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

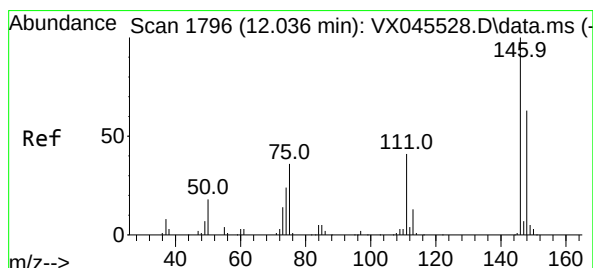
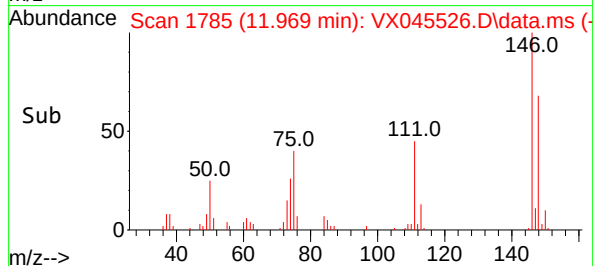
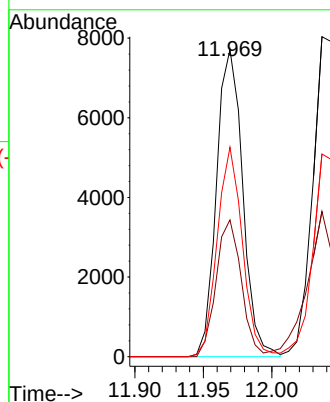
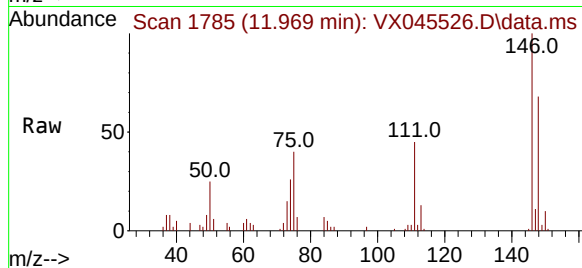
VSTDIC005

Tgt Ion:	146	Resp:	1025
Ion Ratio	Lower	Upper	
146	100		
111	42.9	22.2	66.6
148	65.7	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 5.047 ug/l

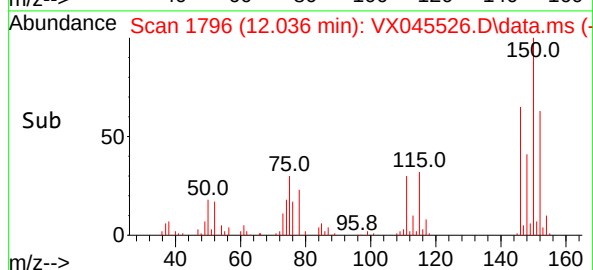
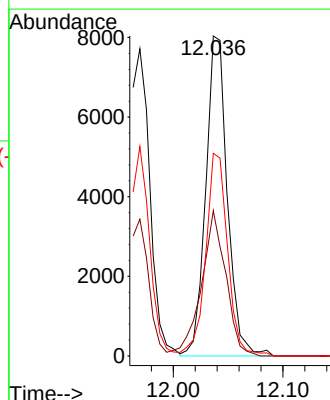
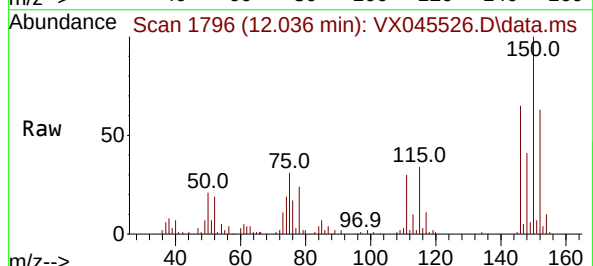
RT: 12.036 min Scan# 1796

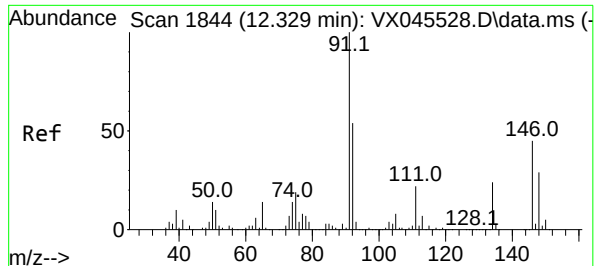
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:	146	Resp:	11016
Ion Ratio	Lower	Upper	
146	100		
111	51.4	20.9	62.8
148	64.2	31.5	94.5





#89

n-Butylbenzene

Concen: 4.317 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

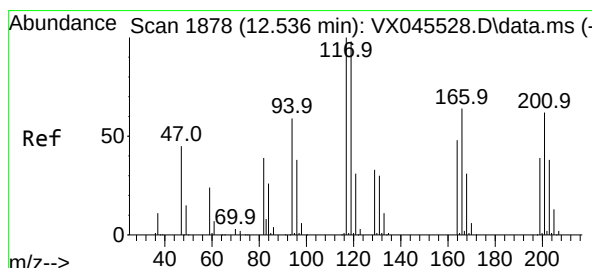
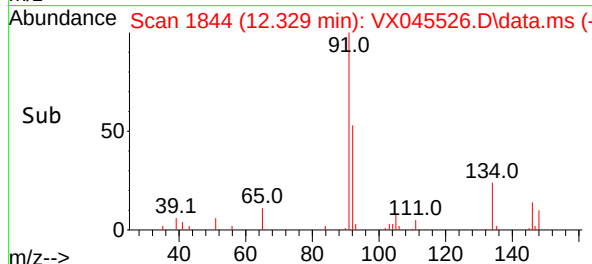
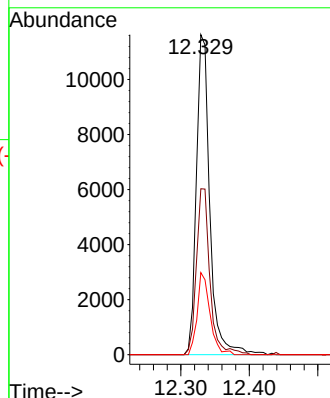
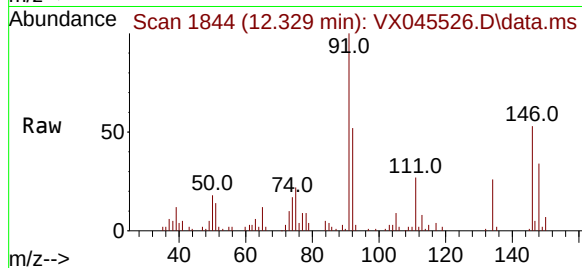
VSTDIC005

Tgt Ion:	91	Resp:	1588
Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.6
134	24.4	11.9	35.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 4.320 ug/l

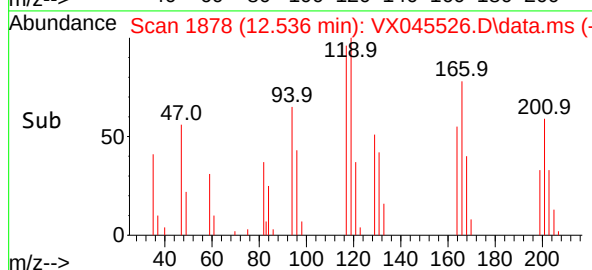
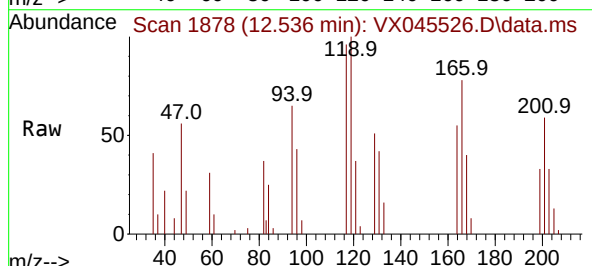
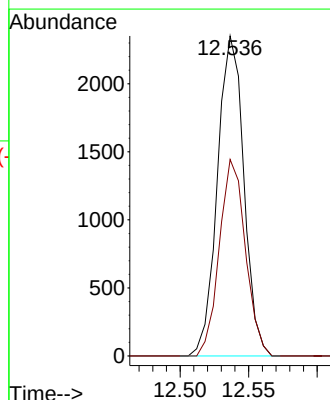
RT: 12.536 min Scan# 1878

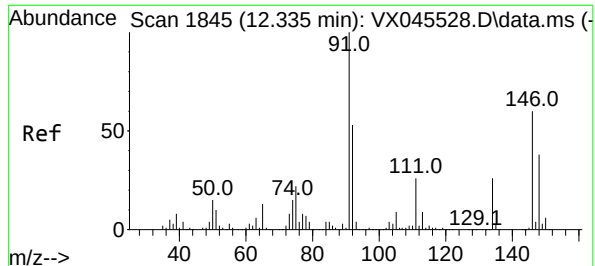
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

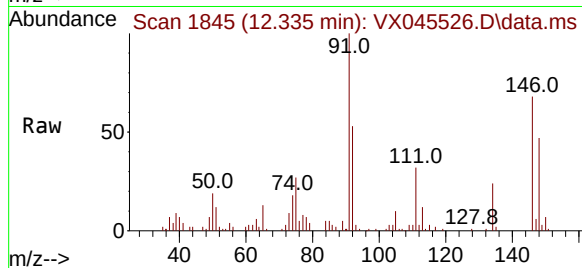
Tgt Ion:	117	Resp:	3151
Ion	Ratio	Lower	Upper
117	100		
201	60.6	31.2	93.6





#91
1,2-Dichlorobenzene
Concen: 4.910 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

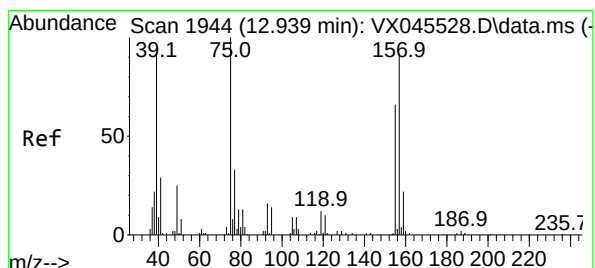
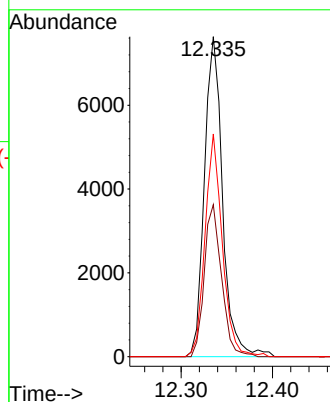
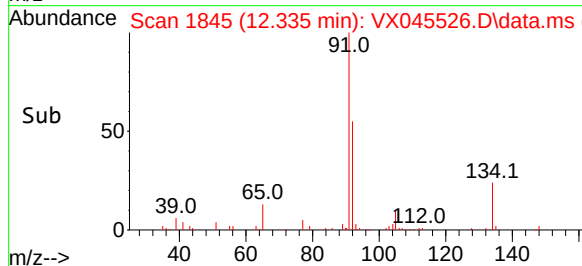
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 10510
Ion Ratio Lower Upper
146 100
111 45.2 22.9 68.8
148 66.3 31.9 95.5

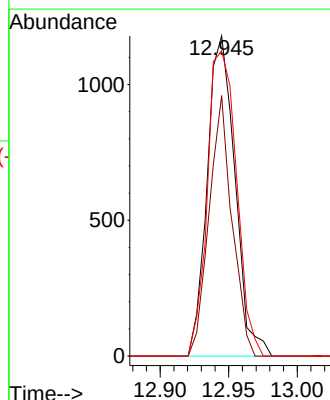
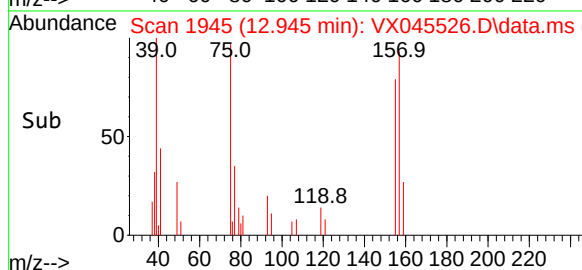
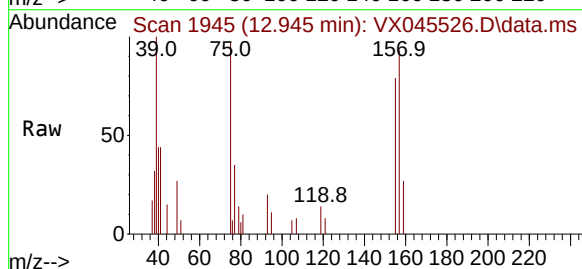
Manual Integrations
APPROVED

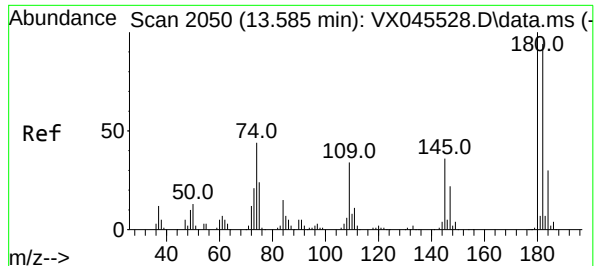
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.417 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX045526.D
Acq: 01 Apr 2025 17:29

Tgt Ion: 75 Resp: 1661
Ion Ratio Lower Upper
75 100
155 67.3 34.9 104.7
157 100.4 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 4.524 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

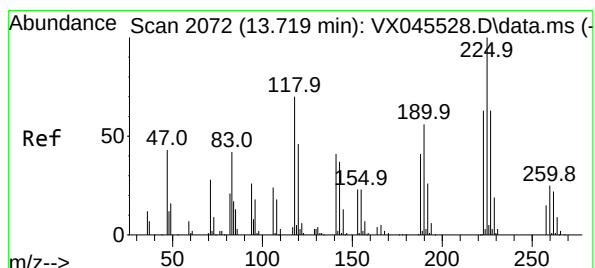
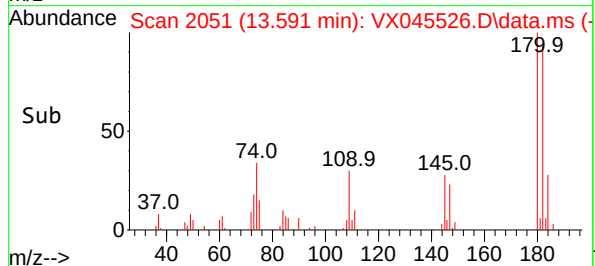
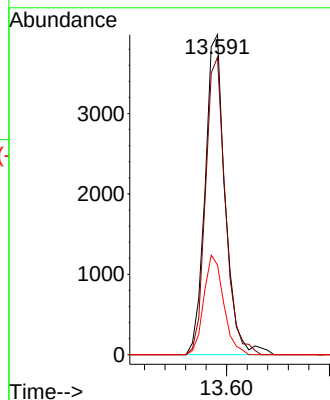
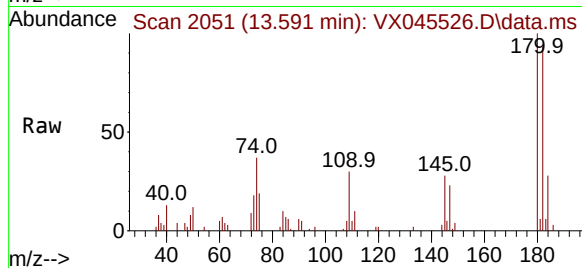
Tgt Ion:180	Resp: 539
Ion Ratio	Lower Upper
180 100	
182 91.7	47.9 143.6
145 30.7	17.9 53.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#94

Hexachlorobutadiene

Concen: 4.836 ug/l

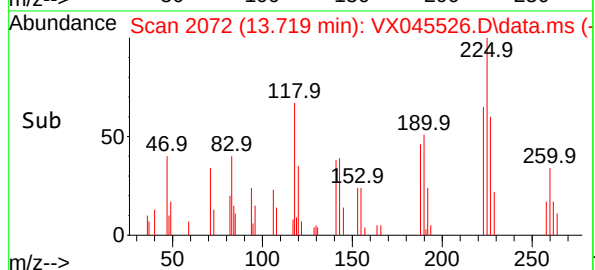
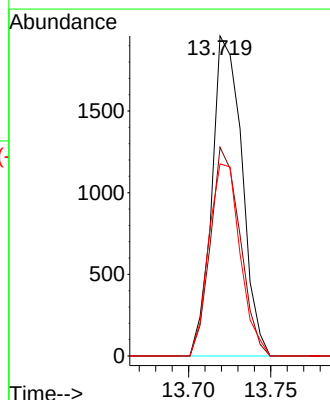
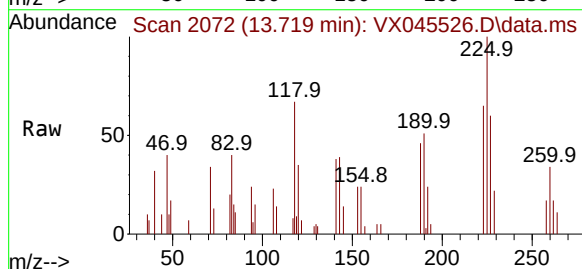
RT: 13.719 min Scan# 2072

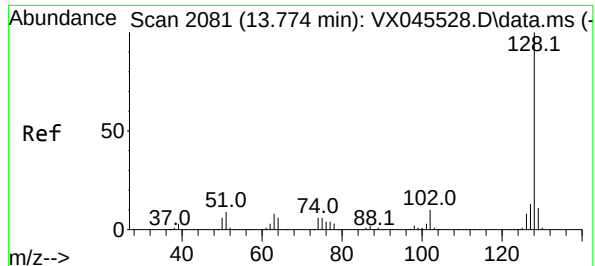
Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:225	Resp: 2483
Ion Ratio	Lower Upper
225 100	
223 64.4	31.1 93.3
227 62.8	32.2 96.6





#95

Naphthalene

Concen: 4.424 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

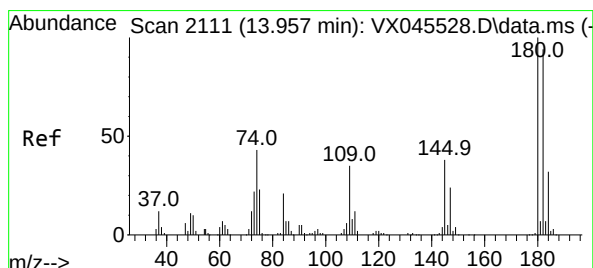
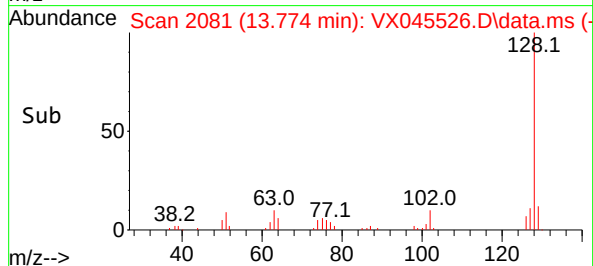
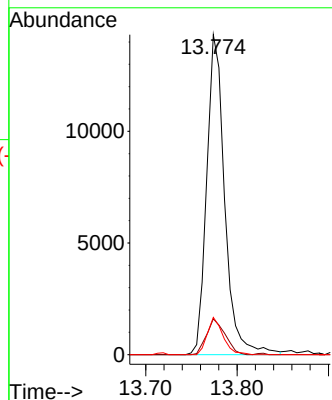
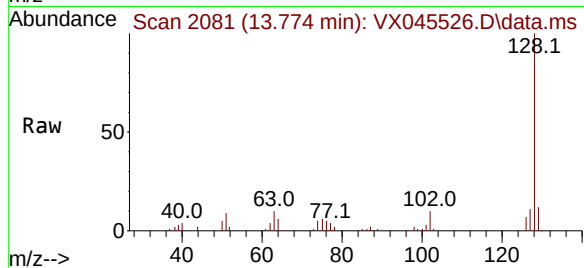
Tgt Ion:128	Resp:	19618
Ion	Ratio	Lower Upper
128	100	
127	11.5	10.3 15.5
129	10.2	8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#96

1,2,3-Trichlorobenzene

Concen: 4.692 ug/l

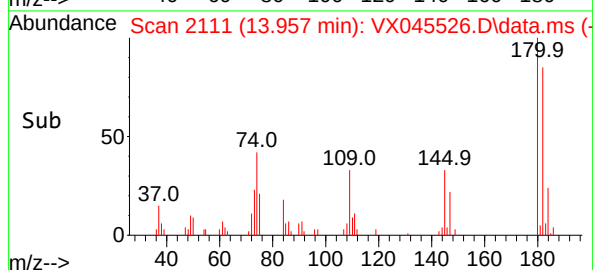
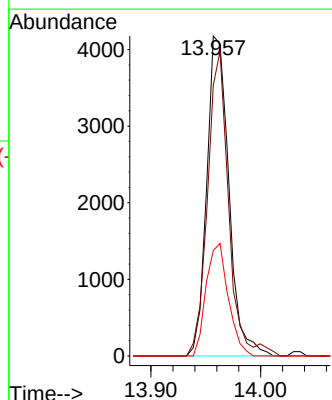
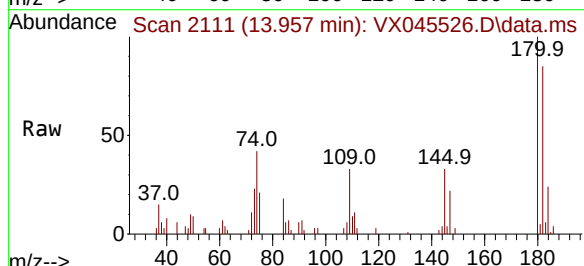
RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX045526.D

Acq: 01 Apr 2025 17:29

Tgt Ion:180	Resp:	5854
Ion	Ratio	Lower Upper
180	100	
182	90.7	47.3 141.8
145	35.2	18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045527.D
 Acq On : 01 Apr 2025 17:52
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	90228	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160754	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	144087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65341	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	32500	19.697	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	39.400%#		
35) Dibromofluoromethane	5.385	113	21963	19.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.520%#		
50) Toluene-d8	8.647	98	79303	19.921	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	39.840%#		
62) 4-Bromofluorobenzene	11.079	95	28795	19.858	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	39.720%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	25265	18.724	ug/l	97
3) Chloromethane	1.301	50	28034	20.223	ug/l	98
4) Vinyl Chloride	1.374	62	25285	19.931	ug/l	97
5) Bromomethane	1.593	94	11815	19.642	ug/l	99
6) Chloroethane	1.666	64	14071	20.905	ug/l	98
7) Trichlorofluoromethane	1.874	101	38815	20.518	ug/l	98
8) Diethyl Ether	2.136	74	12852	20.235	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	22917	20.673	ug/l	95
10) Methyl Iodide	2.441	142	28478	20.596	ug/l	99
11) Tert butyl alcohol	2.983	59	22453	101.253	ug/l	100
12) 1,1-Dichloroethene	2.306	96	22103	20.406	ug/l	96
13) Acrolein	2.239	56	28991	94.938	ug/l	99
14) Allyl chloride	2.660	41	41233	20.063	ug/l	99
15) Acrylonitrile	3.062	53	74487	106.412	ug/l	98
16) Acetone	2.386	43	69788	103.000	ug/l	99
17) Carbon Disulfide	2.502	76	51771	19.352	ug/l	98
18) Methyl Acetate	2.703	43	31190	19.994	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	78284	20.660	ug/l	96
20) Methylene Chloride	2.782	84	26212	20.664	ug/l	96
21) trans-1,2-Dichloroethene	3.087	96	22968	20.755	ug/l	92
22) Diisopropyl ether	3.757	45	84046	20.760	ug/l #	81
23) Vinyl Acetate	3.721	43	361881	103.458	ug/l	99
24) 1,1-Dichloroethane	3.605	63	47560	20.772	ug/l	99
25) 2-Butanone	4.556	43	105062	105.931	ug/l	99
26) 2,2-Dichloropropane	4.471	77	28956	19.574	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	27425	20.342	ug/l	98
28) Bromochloromethane	4.897	49	22285	20.141	ug/l	100
29) Tetrahydrofuran	5.007	42	66994	104.187	ug/l	99
30) Chloroform	5.093	83	48639	20.646	ug/l	100
31) Cyclohexane	5.458	56	41450	20.478	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	40407	20.270	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30504	19.808	ug/l	98
37) Ethyl Acetate	4.715	43	39163	20.180	ug/l	98
38) Carbon Tetrachloride	5.672	117	33533	20.148	ug/l	94
39) Methylcyclohexane	7.373	83	38303	20.291	ug/l	97
40) Benzene	6.031	78	97667	20.766	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045527.D
 Acq On : 01 Apr 2025 17:52
 Operator : JC/MD
 Sample : VSTDICC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC020

Quant Time: Apr 02 02:52:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	21740	21.046	ug/l	97
42) 1,2-Dichloroethane	6.086	62	41733	21.484	ug/l	100
43) Isopropyl Acetate	6.342	43	61222	20.814	ug/l	99
44) Trichloroethene	7.123	130	22918	20.501	ug/l	97
45) 1,2-Dichloropropane	7.428	63	24926	21.241	ug/l	90
46) Dibromomethane	7.580	93	19104	21.207	ug/l	99
47) Bromodichloromethane	7.818	83	37036	20.587	ug/l	99
48) Methyl methacrylate	7.696	41	31247	20.575	ug/l	99
49) 1,4-Dioxane	7.659	88	12104	440.515	ug/l	96
51) 4-Methyl-2-Pentanone	8.574	43	212645	109.055	ug/l	99
52) Toluene	8.714	92	60357	21.208	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	29870	18.764	ug/l	96
54) cis-1,3-Dichloropropene	8.366	75	35099	20.762	ug/l	95
55) 1,1,2-Trichloroethane	9.147	97	24191	21.331	ug/l	96
56) Ethyl methacrylate	9.116	69	36155	20.600	ug/l	99
57) 1,3-Dichloropropane	9.305	76	41900	21.217	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	91923	103.534	ug/l	100
59) 2-Hexanone	9.427	43	156999	108.730	ug/l	99
60) Dibromochloromethane	9.519	129	25992	21.023	ug/l	98
61) 1,2-Dibromoethane	9.604	107	24456	21.303	ug/l	99
64) Tetrachloroethene	9.269	164	21379	21.015	ug/l	98
65) Chlorobenzene	10.079	112	64727	21.023	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	21447	20.064	ug/l	98
67) Ethyl Benzene	10.189	91	115368	20.921	ug/l	99
68) m/p-Xylenes	10.299	106	84420	42.092	ug/l	99
69) o-Xylene	10.640	106	41803	21.158	ug/l	100
70) Styrene	10.653	104	69290	21.249	ug/l	99
71) Bromoform	10.799	173	15659	19.619	ug/l #	99
73) Isopropylbenzene	10.957	105	110396	21.093	ug/l	100
74) N-amyl acetate	10.842	43	51238	20.466	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	38177	20.764	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	32690m	20.510	ug/l	
77) Bromobenzene	11.195	156	24902	20.592	ug/l	100
78) n-propylbenzene	11.299	91	130994	21.729	ug/l	98
79) 2-Chlorotoluene	11.360	91	81817	21.229	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	93328	21.564	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8435	17.961	ug/l	88
82) 4-Chlorotoluene	11.451	91	90704	21.108	ug/l	99
83) tert-Butylbenzene	11.713	119	89828	20.964	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	92242	21.235	ug/l	100
85) sec-Butylbenzene	11.890	105	112800	21.433	ug/l	100
86) p-Isopropyltoluene	12.006	119	91866	21.173	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	45105	20.490	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	46208	20.706	ug/l	99
89) n-Butylbenzene	12.329	91	77739	20.662	ug/l	100
90) Hexachloroethane	12.536	117	14544	19.505	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	45732	20.896	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	8153	21.203	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	24787	20.347	ug/l	98
94) Hexachlorobutadiene	13.725	225	10488	19.979	ug/l	97
95) Naphthalene	13.774	128	94875	20.928	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	26113	20.471	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045527.D
Acq On : 01 Apr 2025 17:52
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:52:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

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

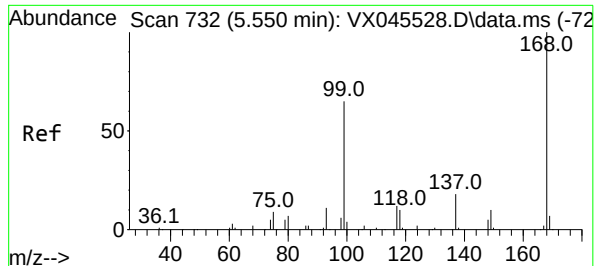
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

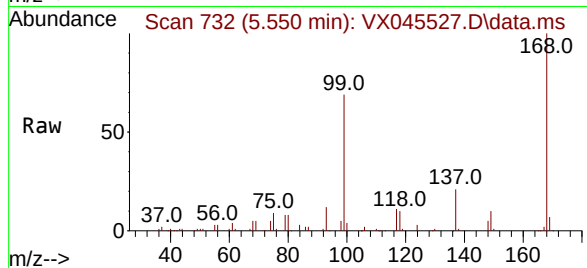
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

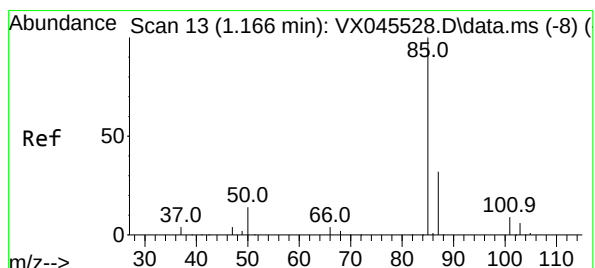
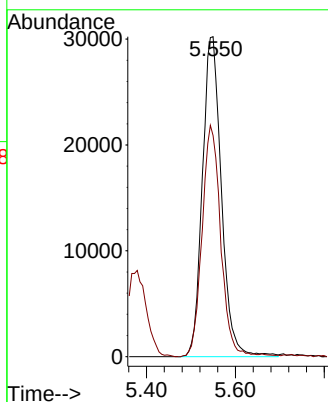
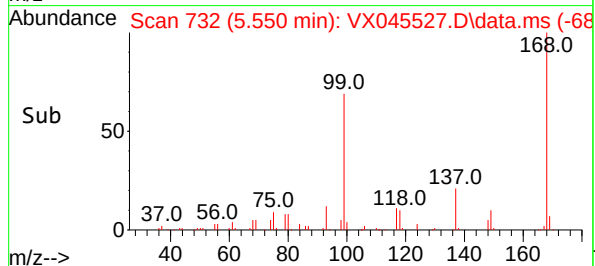
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 168 Resp: 90228
Ion Ratio Lower Upper
168 100
99 69.1 52.3 78.5

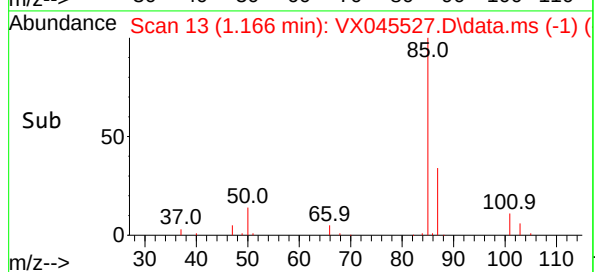
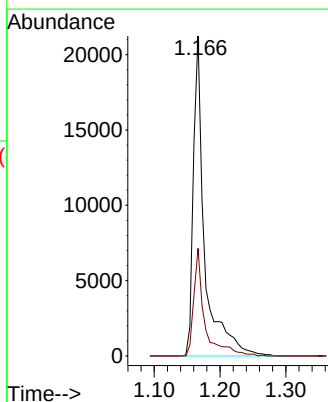
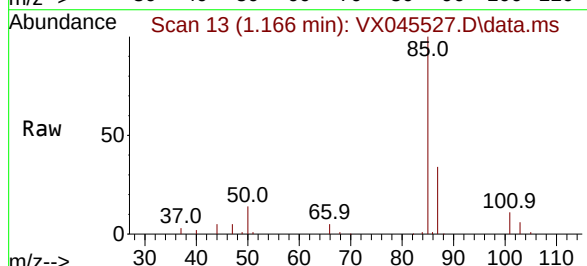
Manual Integrations
APPROVED

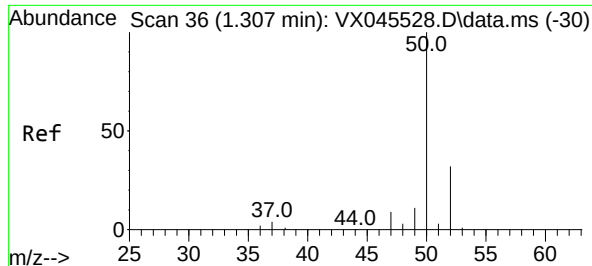
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 18.724 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 85 Resp: 25265
Ion Ratio Lower Upper
85 100
87 33.7 16.1 48.2





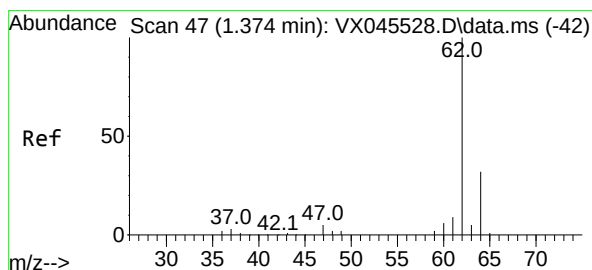
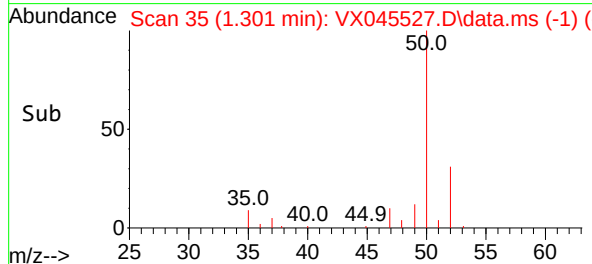
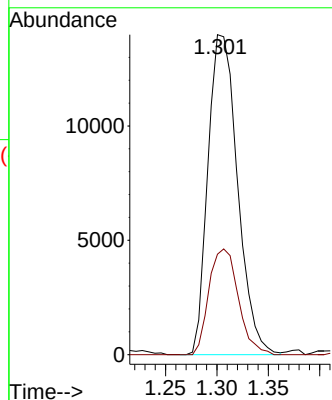
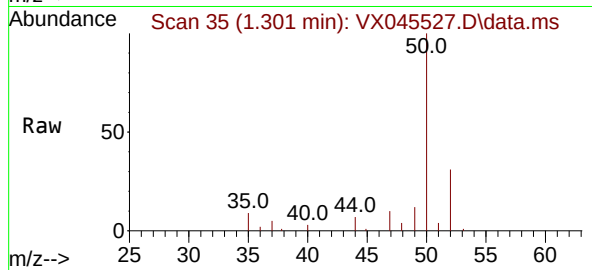
#3
Chloromethane
Concen: 20.223 ug/l
RT: 1.301 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 28034
Ion Ratio Lower Upper
50 100
52 31.4 25.9 38.9

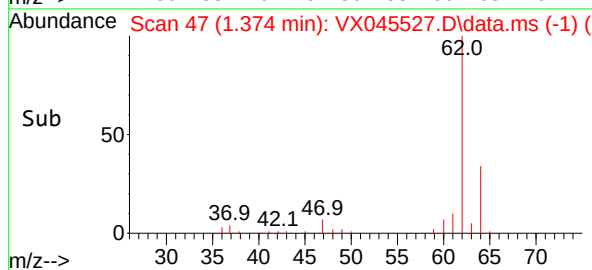
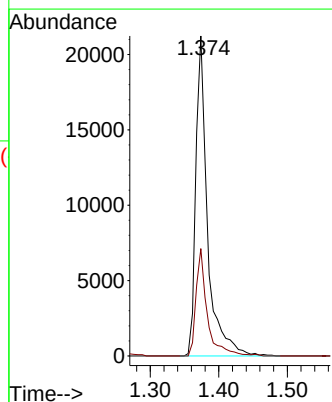
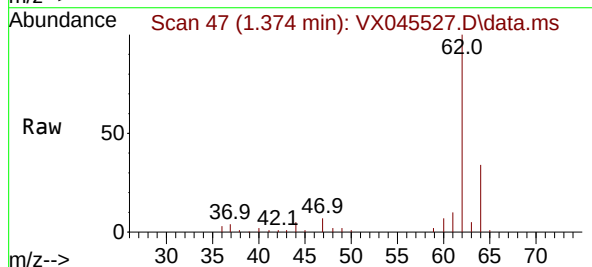
Manual Integrations
APPROVED

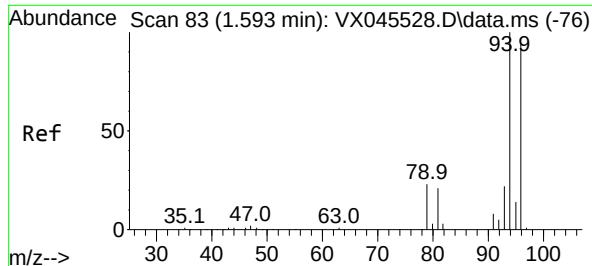
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 19.931 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 62 Resp: 25285
Ion Ratio Lower Upper
62 100
64 33.5 25.5 38.3





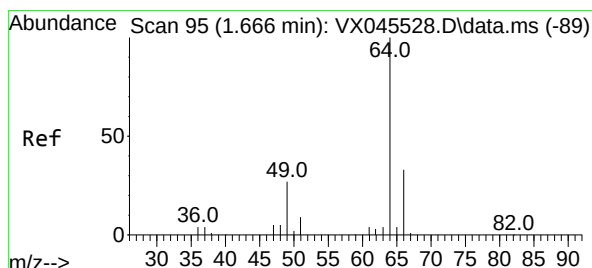
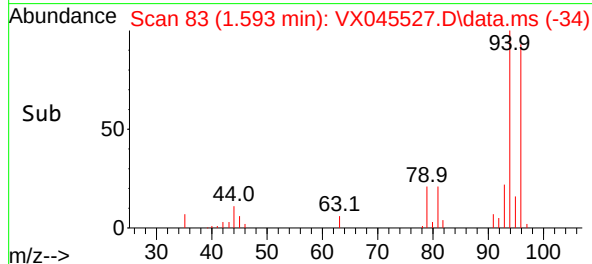
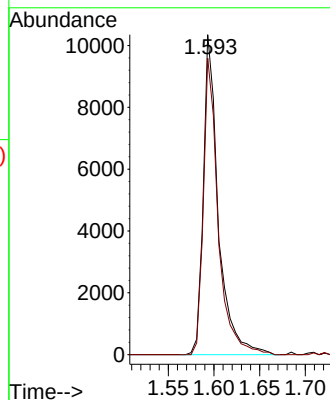
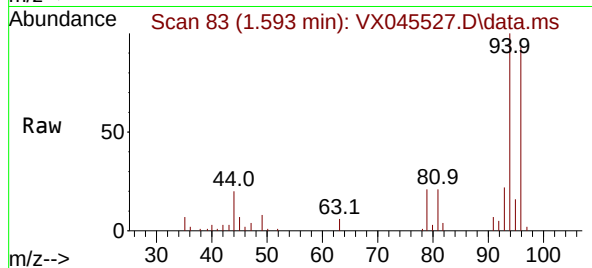
#5
Bromomethane
Concen: 19.642 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 94 Resp: 1181
Ion Ratio Lower Upper
94 100
96 92.7 74.8 112.2

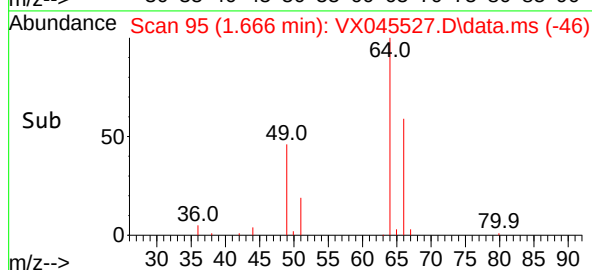
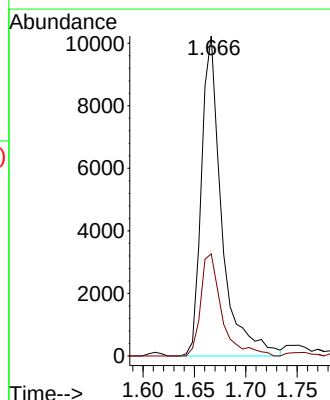
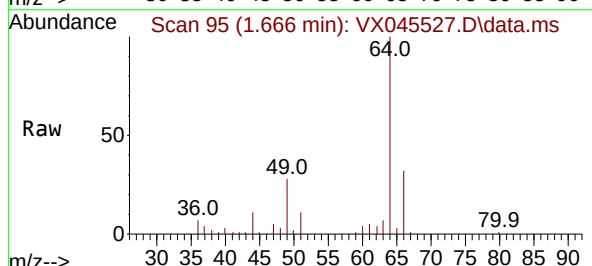
Manual Integrations
APPROVED

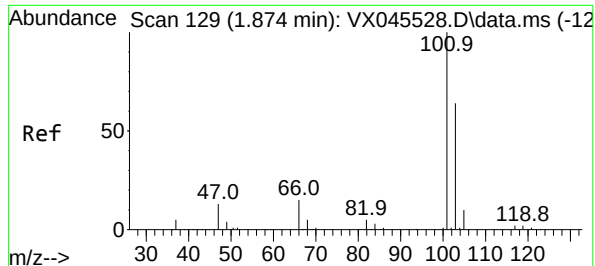
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#6
Chloroethane
Concen: 20.905 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

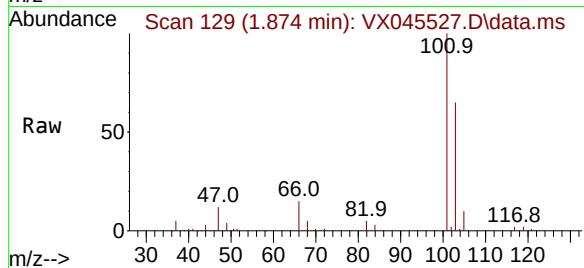
Tgt Ion: 64 Resp: 14071
Ion Ratio Lower Upper
64 100
66 31.9 26.3 39.5





#7
Trichlorofluoromethane
Concen: 20.518 ug/l
RT: 1.874 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

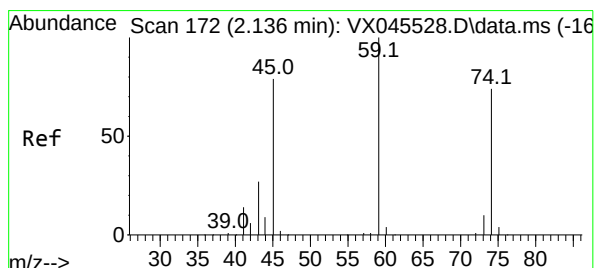
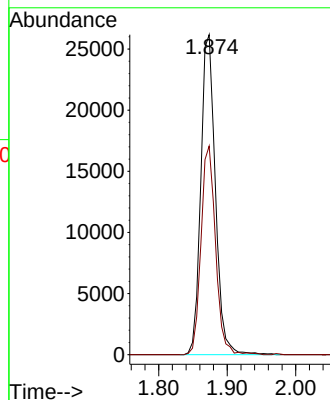
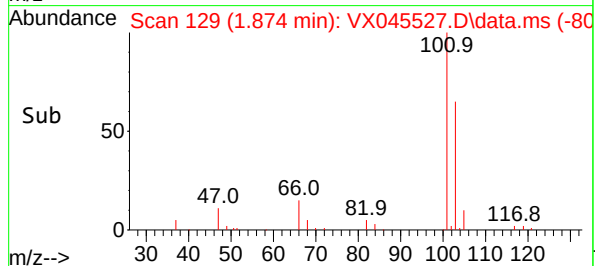
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:101 Resp: 3881
Ion Ratio Lower Upper
101 100
103 65.2 51.1 76.7

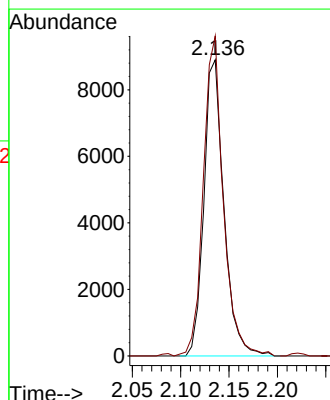
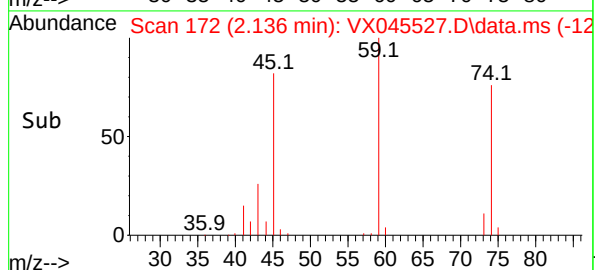
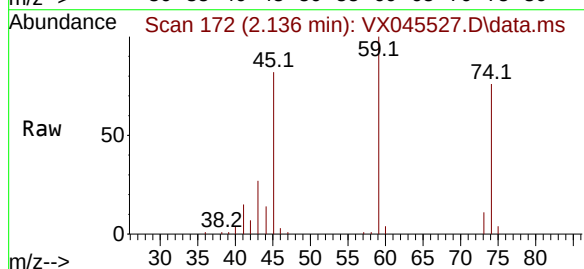
Manual Integrations
APPROVED

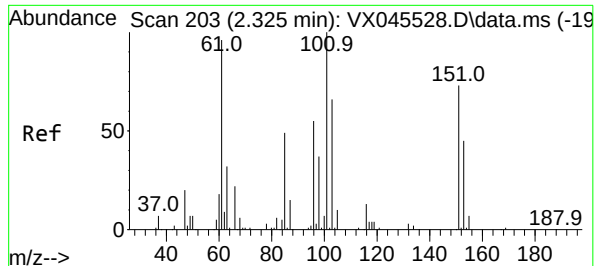
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#8
Diethyl Ether
Concen: 20.235 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 74 Resp: 12852
Ion Ratio Lower Upper
74 100
45 107.6 53.0 159.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.673 ug/l

RT: 2.319 min Scan# 203

Delta R.T. -0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

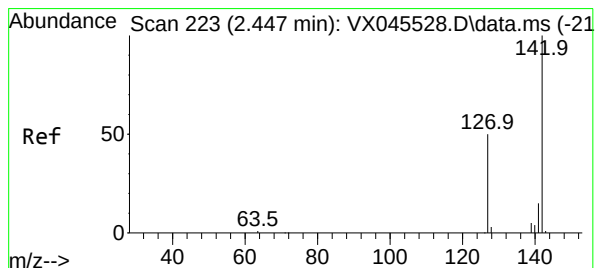
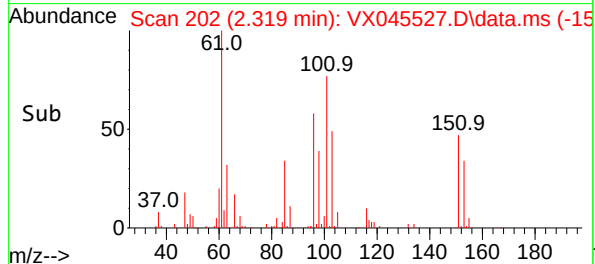
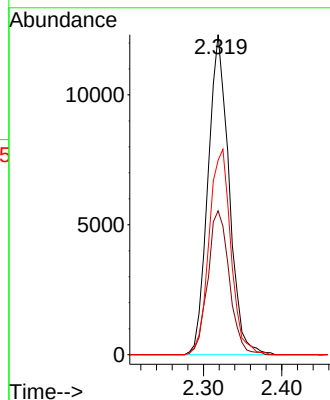
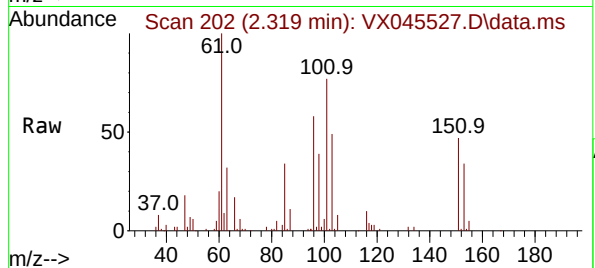
Tgt Ion:	101	Resp:	2291
Ion	Ratio	Lower	Upper
101	100		
85	46.2	38.9	58.3
151	66.8	57.5	86.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#10

Methyl Iodide

Concen: 20.596 ug/l

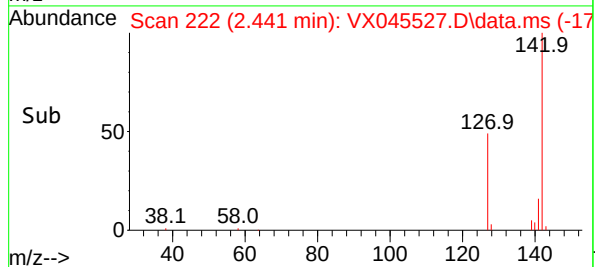
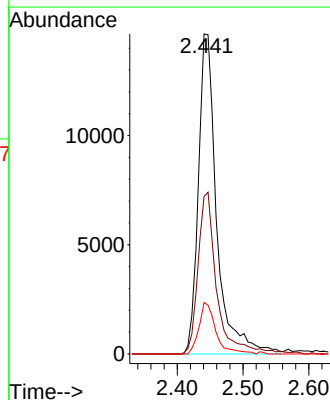
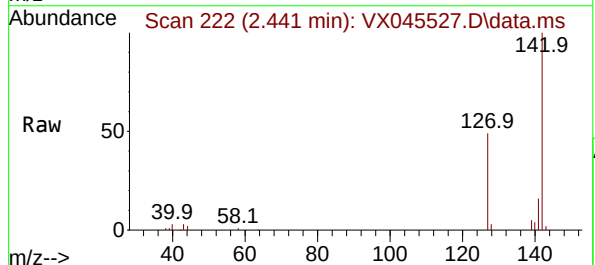
RT: 2.441 min Scan# 222

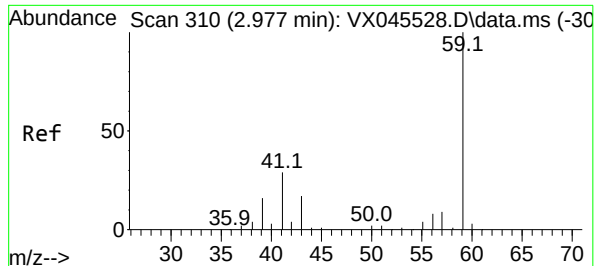
Delta R.T. -0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	142	Resp:	28478
Ion	Ratio	Lower	Upper
142	100		
127	51.5	40.2	60.4
141	14.8	11.7	17.5





#11

Tert butyl alcohol

Concen: 101.253 ug/l

RT: 2.983 min Scan# 310

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 59 Resp: 2245

Ion Ratio Lower Upper

59 100

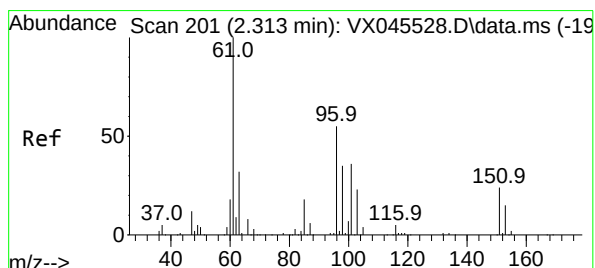
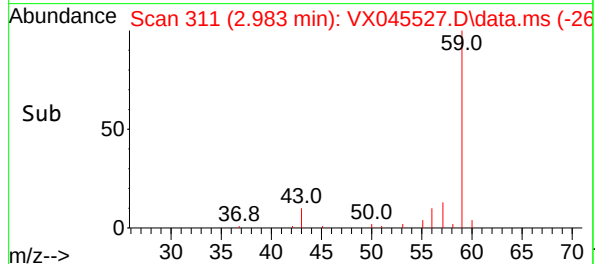
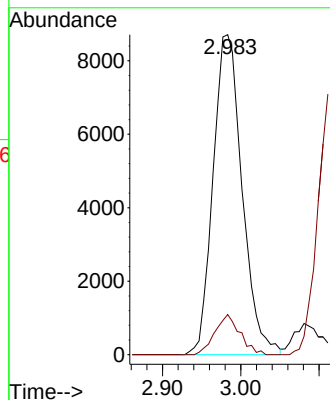
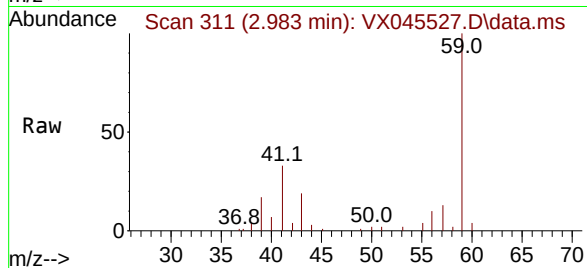
57 10.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#12

1,1-Dichloroethene

Concen: 20.406 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

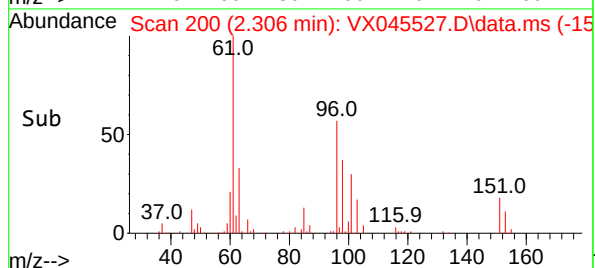
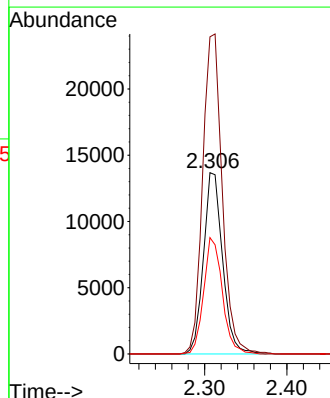
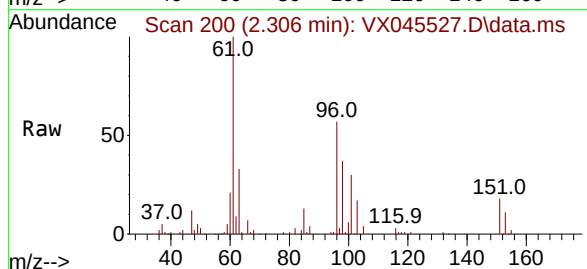
Tgt Ion: 96 Resp: 22103

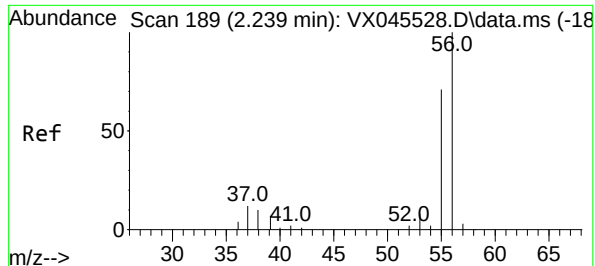
Ion Ratio Lower Upper

96 100

61 175.0 145.7 218.5

98 64.2 51.6 77.4





#13

Acrolein

Concen: 94.938 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 56 Resp: 2899

Ion Ratio Lower Upper

56 100

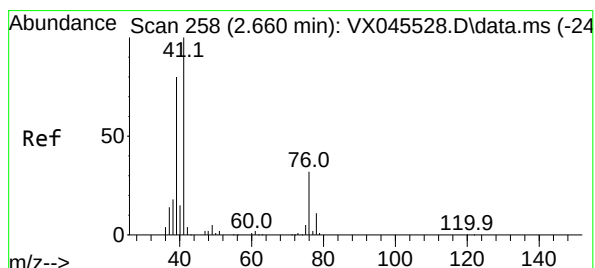
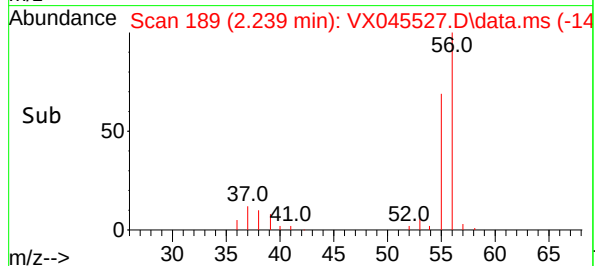
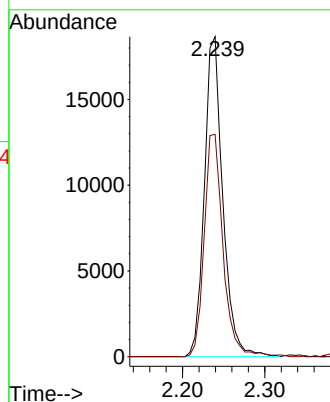
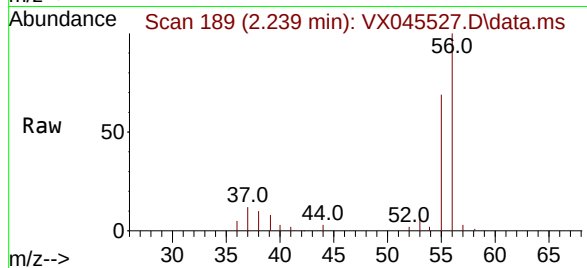
55 71.2 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#14

Allyl chloride

Concen: 20.063 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

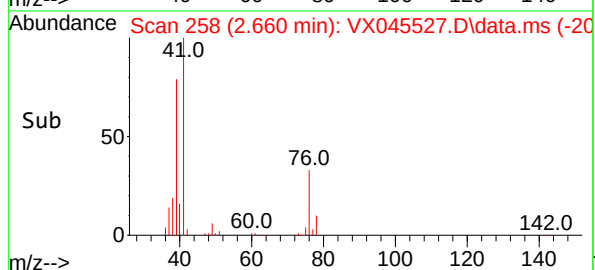
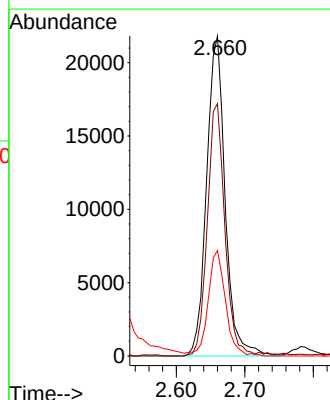
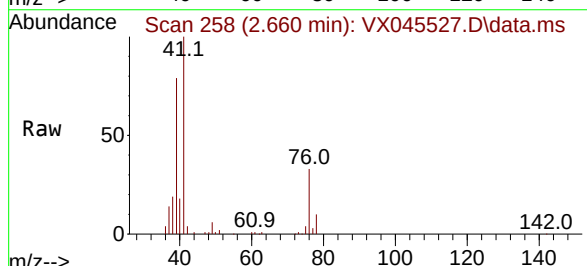
Tgt Ion: 41 Resp: 41233

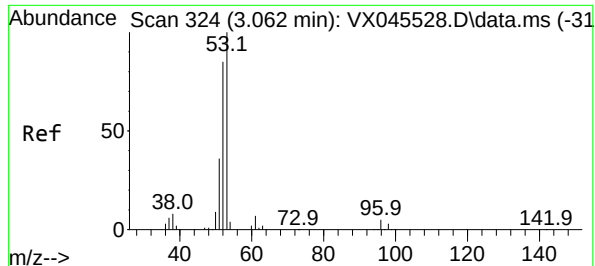
Ion Ratio Lower Upper

41 100

39 74.2 60.2 90.2

76 31.0 24.6 36.8





#15

Acrylonitrile

Concen: 106.412 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

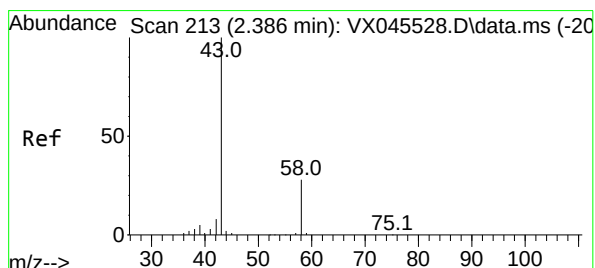
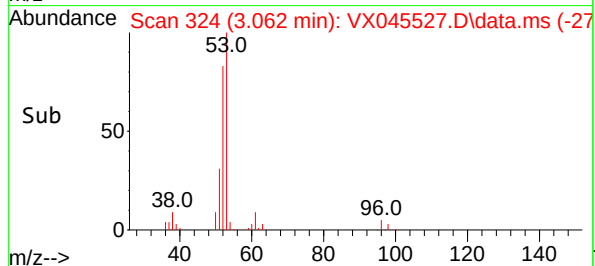
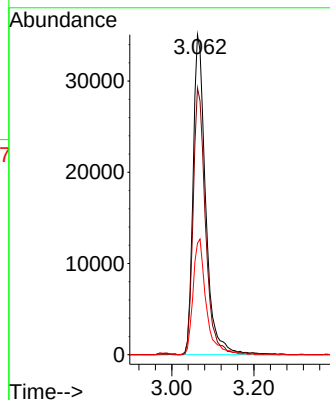
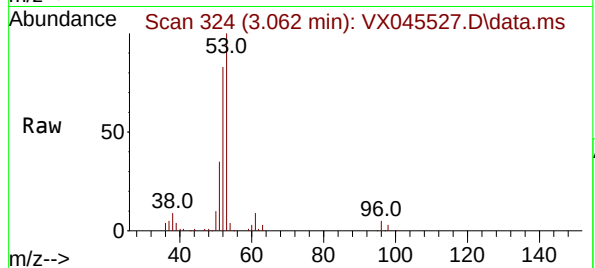
VSTDICC020

Tgt Ion:	53	Resp:	7448
Ion	Ratio	Lower	Upper
53	100		
52	81.8	67.4	101.2
51	37.6	29.9	44.9

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 103.000 ug/l

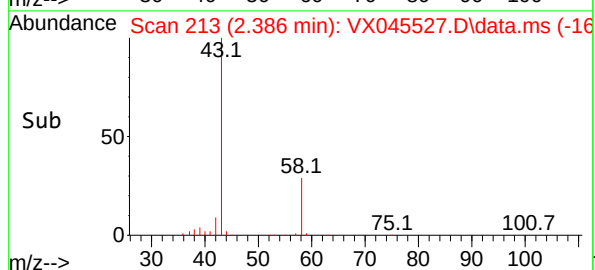
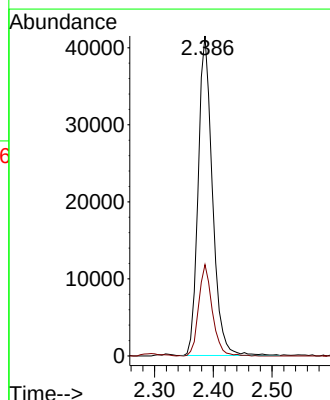
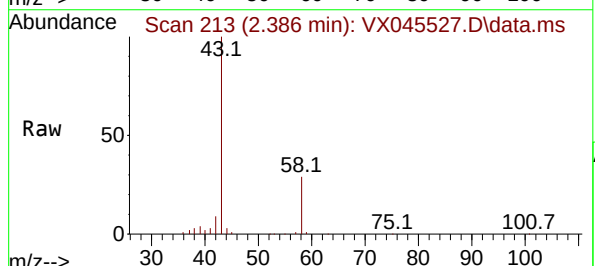
RT: 2.386 min Scan# 213

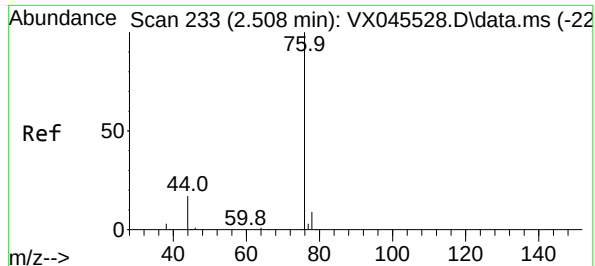
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	43	Resp:	69788
Ion	Ratio	Lower	Upper
43	100		
58	28.6	22.3	33.5





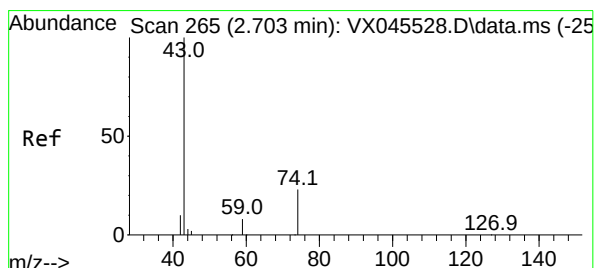
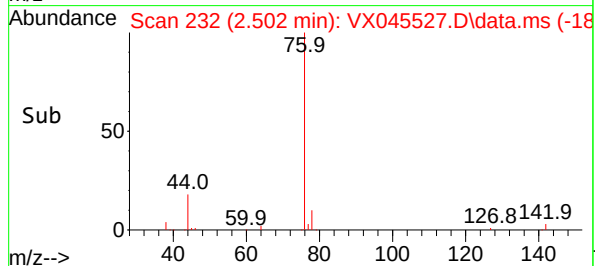
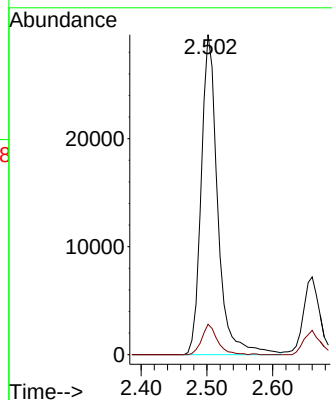
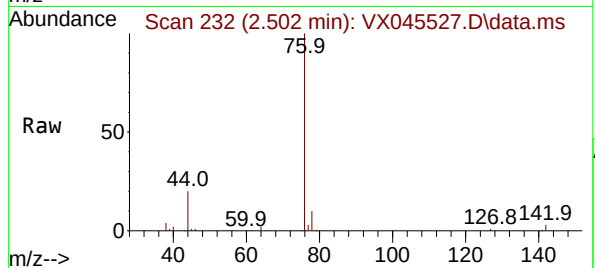
#17
Carbon Disulfide
Concen: 19.352 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 76 Resp: 5177
Ion Ratio Lower Upper
76 100
78 9.5 7.0 10.6

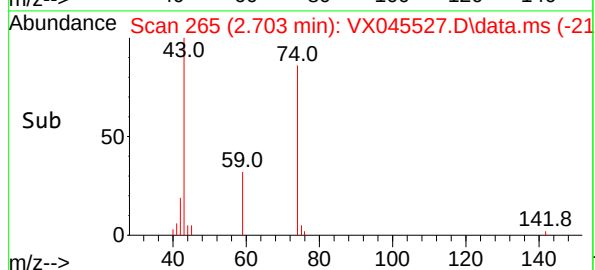
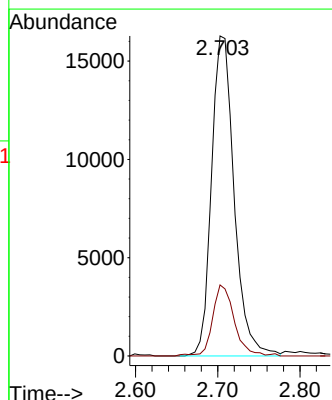
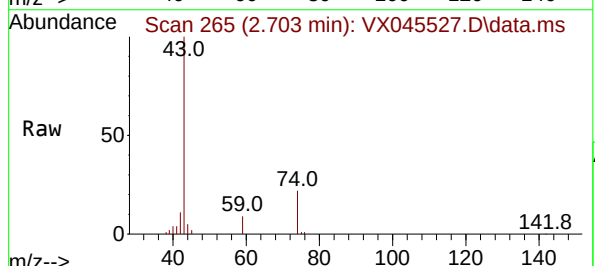
Manual Integrations
APPROVED

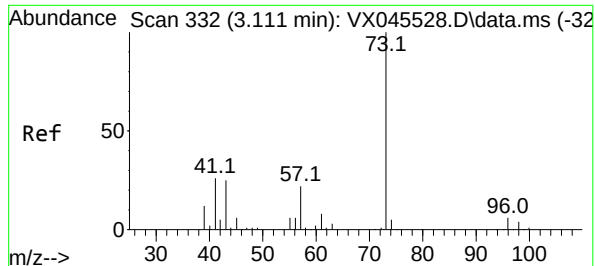
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#18
Methyl Acetate
Concen: 19.994 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 31190
Ion Ratio Lower Upper
43 100
74 21.3 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 20.660 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 73 Resp: 78284

Ion Ratio Lower Upper

73 100

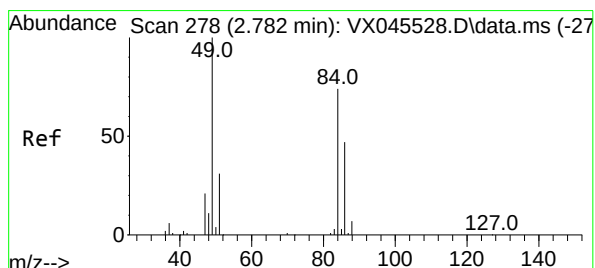
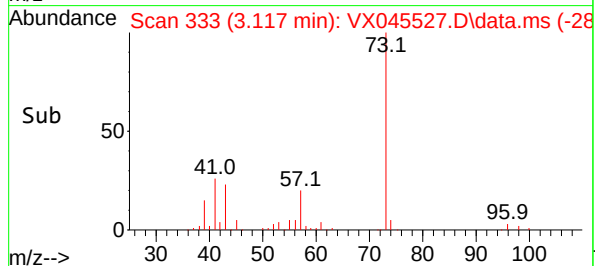
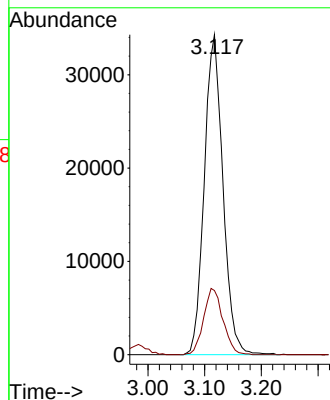
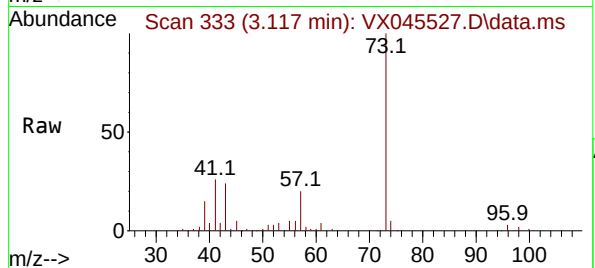
57 20.0 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 20.664 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion: 84 Resp: 26212

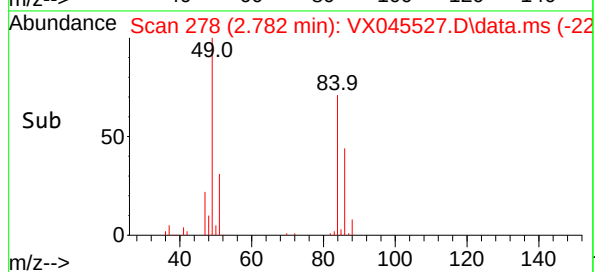
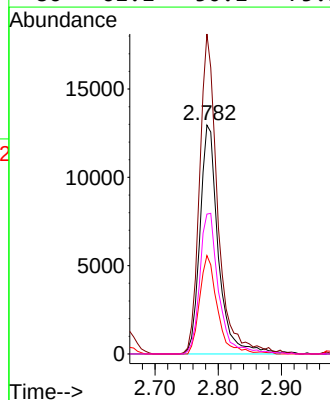
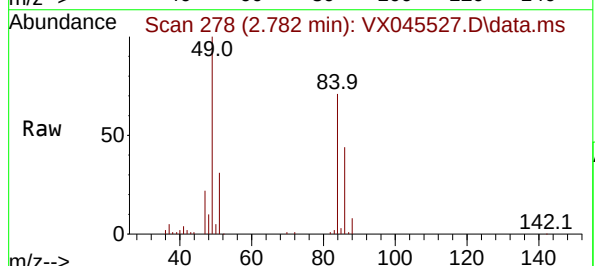
Ion Ratio Lower Upper

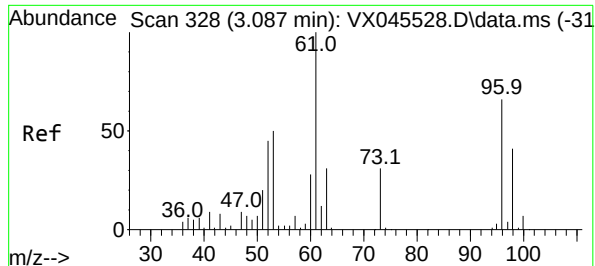
84 100

49 139.9 107.5 161.3

51 43.0 33.0 49.6

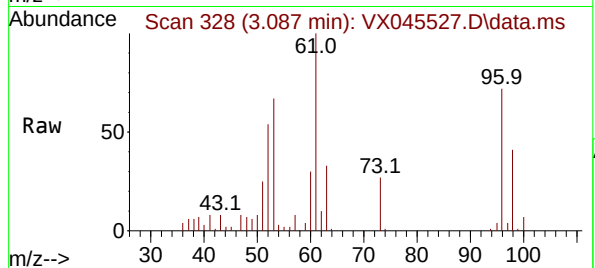
86 61.1 50.1 75.1





#21
trans-1,2-Dichloroethene
Concen: 20.755 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

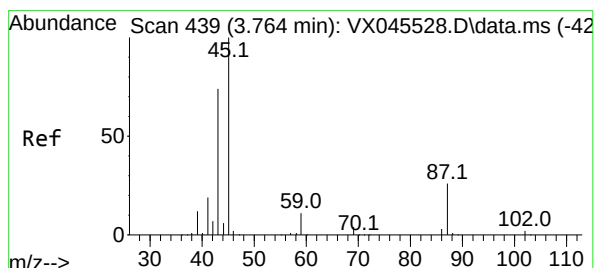
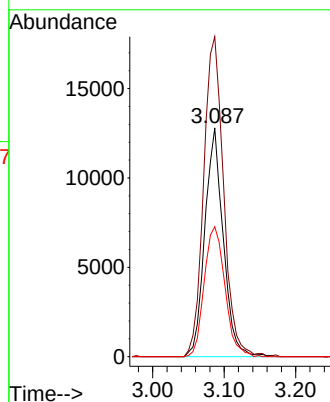
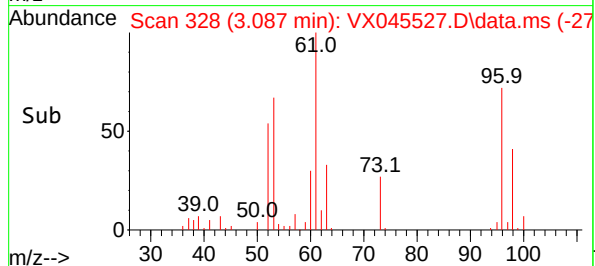
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion: 96 Resp: 22968
Ion Ratio Lower Upper
96 100
61 139.8 121.0 181.6
98 56.7 49.7 74.5

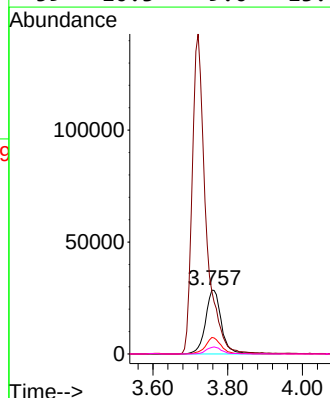
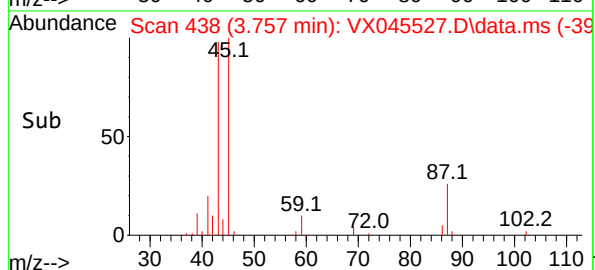
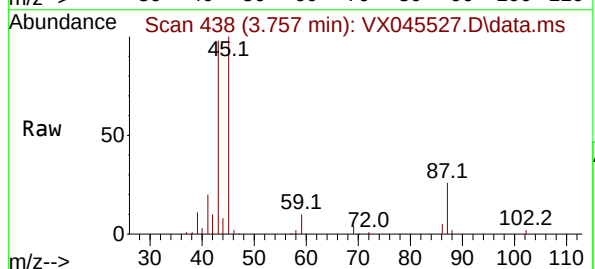
Manual Integrations
APPROVED

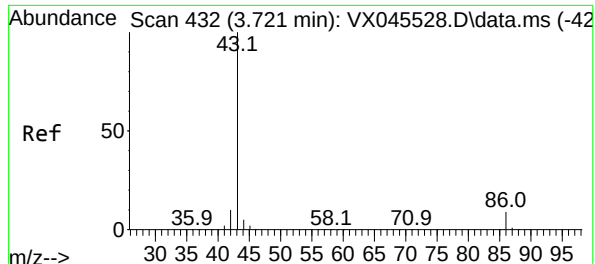
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#22
Diisopropyl ether
Concen: 20.760 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 45 Resp: 84046
Ion Ratio Lower Upper
45 100
43 98.0 59.3 88.9#
87 25.9 20.4 30.6
59 10.3 9.0 13.6





#23

Vinyl Acetate

Concen: 103.458 ug/l

RT: 3.721 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 36188

Ion Ratio Lower Upper

43 100

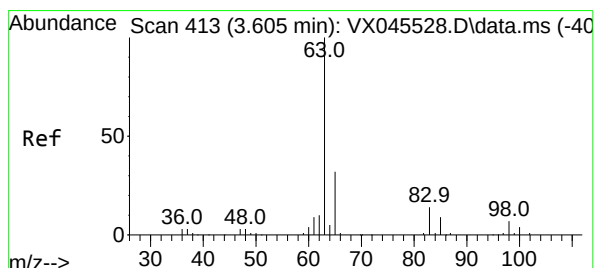
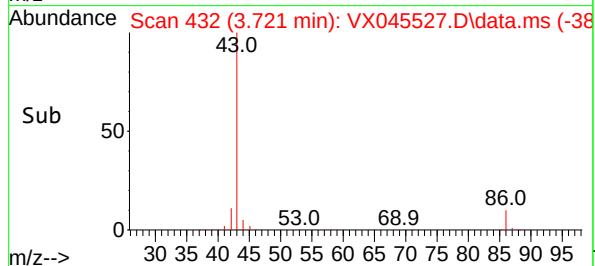
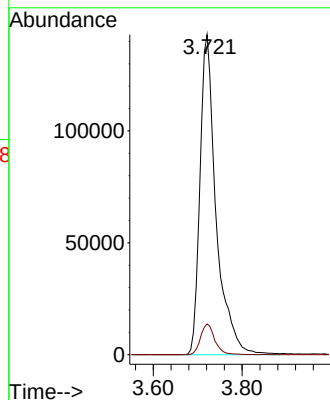
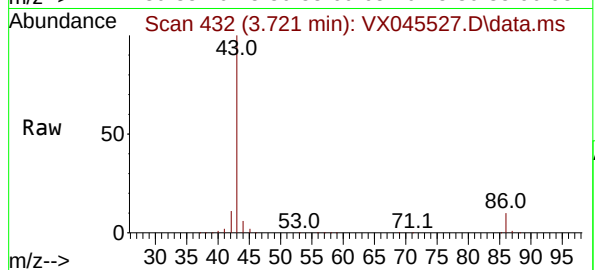
86 9.6 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#24

1,1-Dichloroethane

Concen: 20.772 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

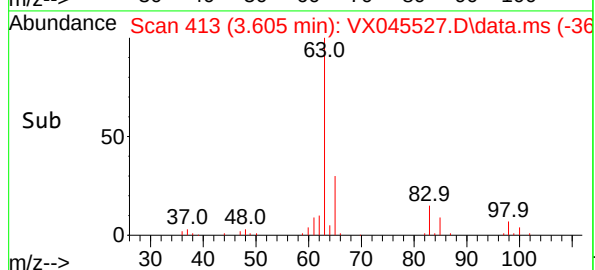
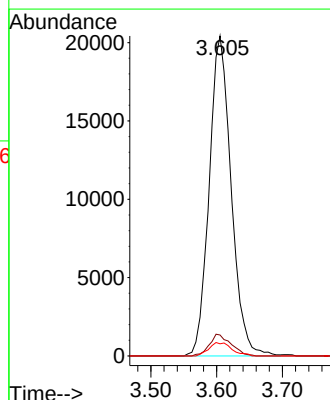
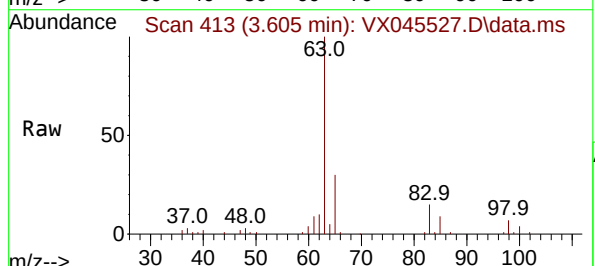
Tgt Ion: 63 Resp: 47560

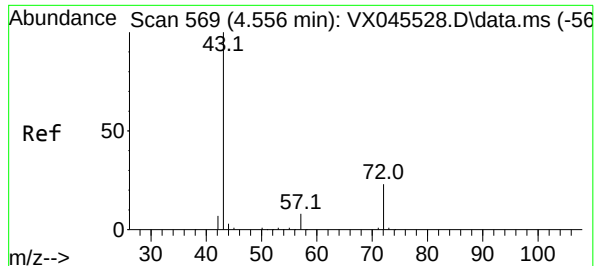
Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

100 3.8 2.2 6.6





#25

2-Butanone

Concen: 105.931 ug/l

RT: 4.556 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 105062

Ion Ratio Lower Upper

43 100

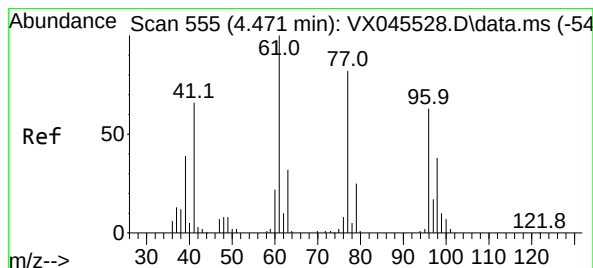
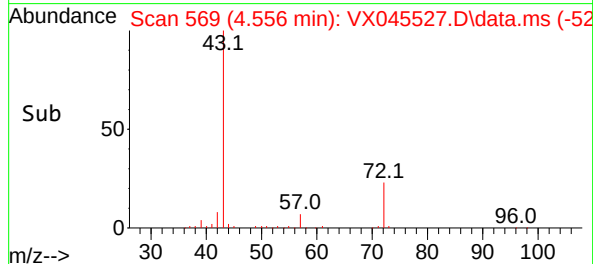
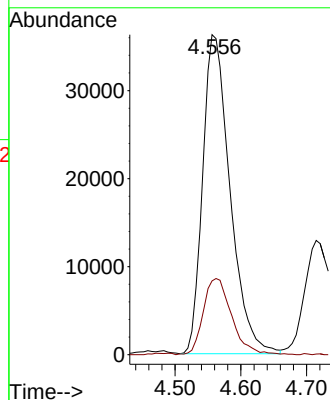
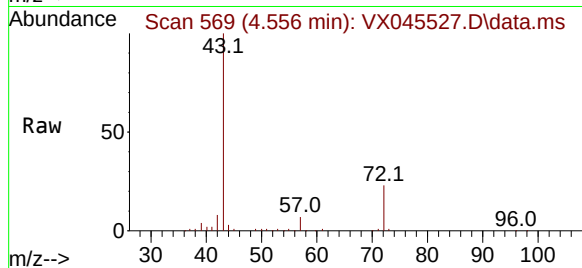
72 22.9 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#26

2,2-Dichloropropane

Concen: 19.574 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX045527.D

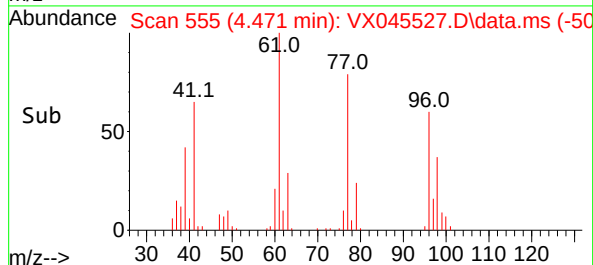
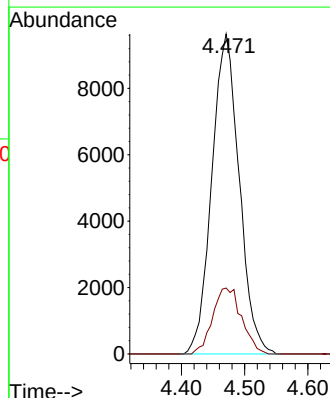
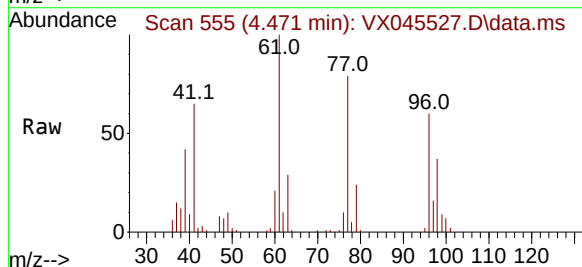
Acq: 01 Apr 2025 17:52

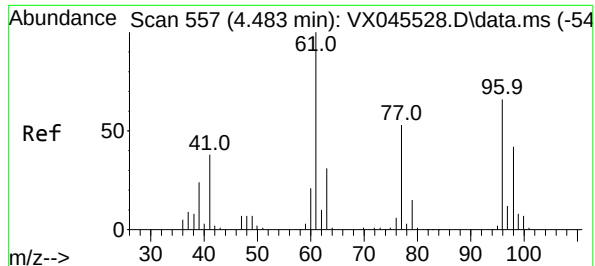
Tgt Ion: 77 Resp: 28956

Ion Ratio Lower Upper

77 100

97 21.8 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 20.342 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

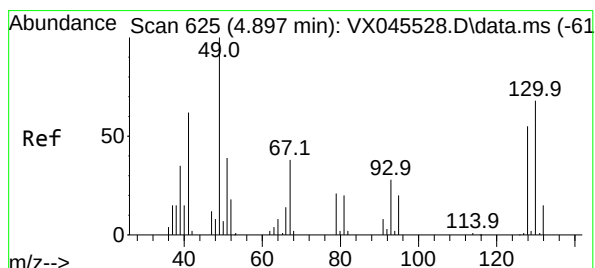
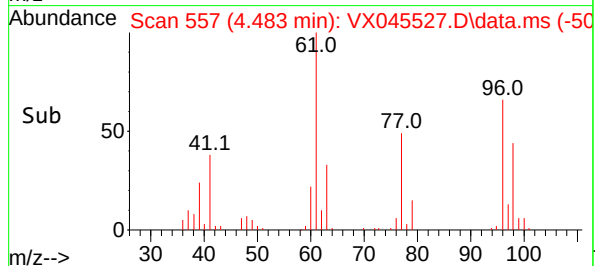
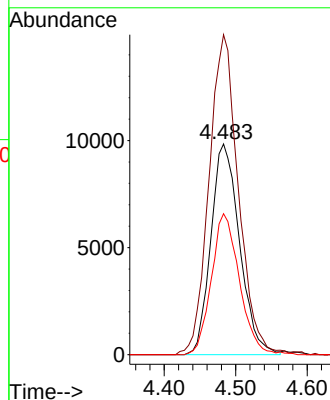
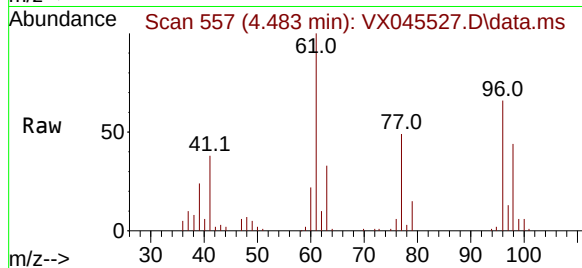
VSTDICC020

Tgt Ion:	96	Resp:	2742
Ion	Ratio	Lower	Upper
96	100		
61	155.2	0.0	313.2
98	65.5	0.0	126.4

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 20.141 ug/l

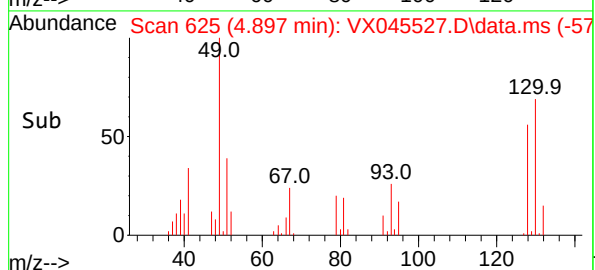
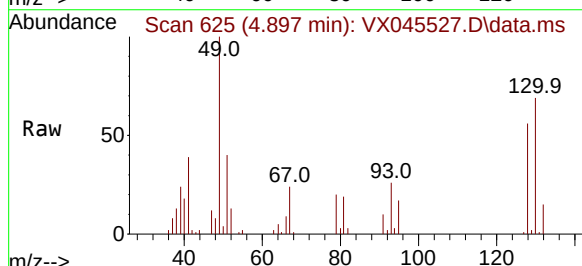
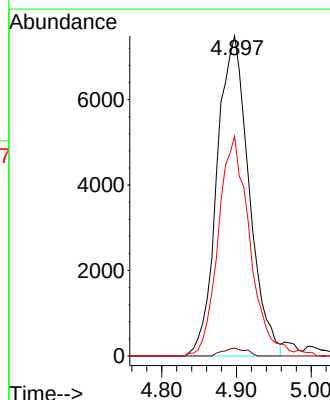
RT: 4.897 min Scan# 625

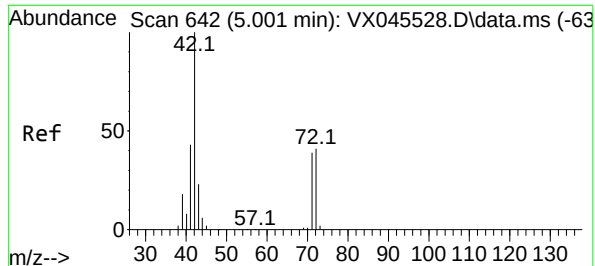
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	49	Resp:	22285
Ion	Ratio	Lower	Upper
49	100		
129	1.8	0.0	3.8
130	68.0	54.6	81.8





#29

Tetrahydrofuran

Concen: 104.187 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

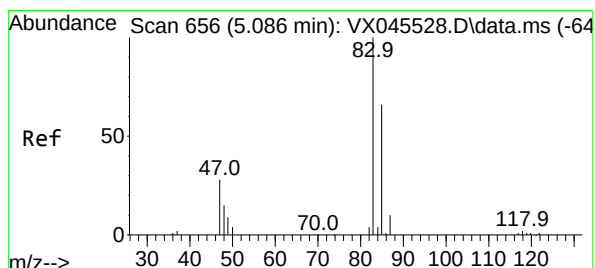
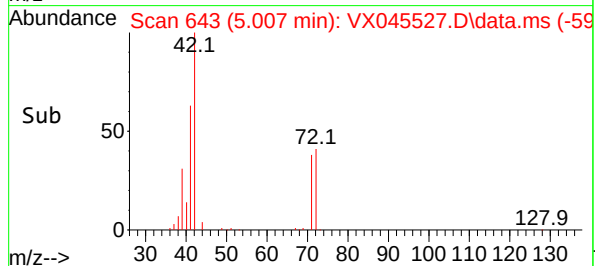
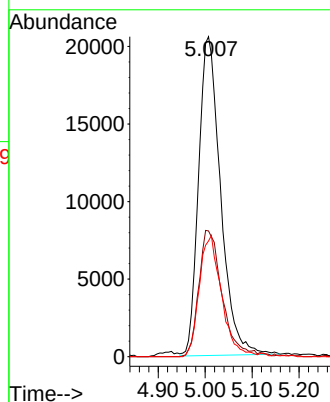
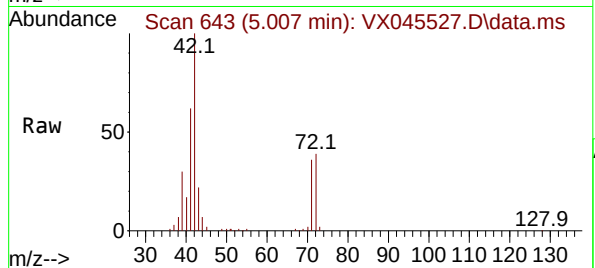
VSTDICC020

Tgt Ion:	42	Resp:	66994
Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.4	50.0
71	38.2	31.4	47.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 20.646 ug/l

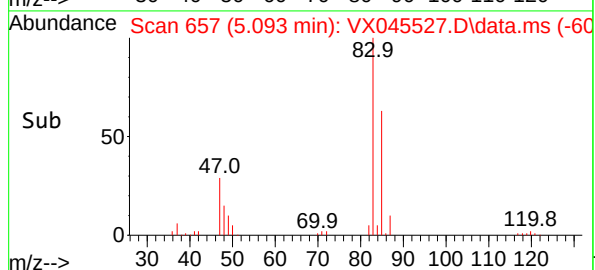
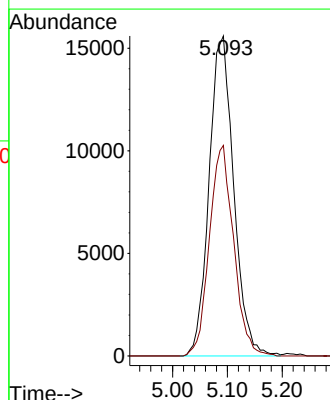
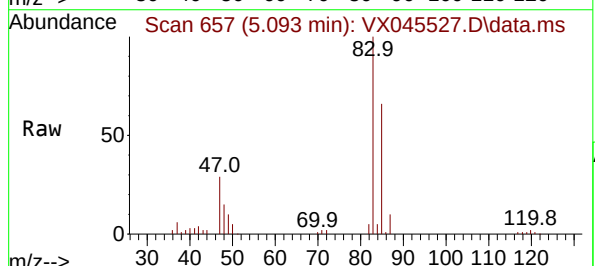
RT: 5.093 min Scan# 657

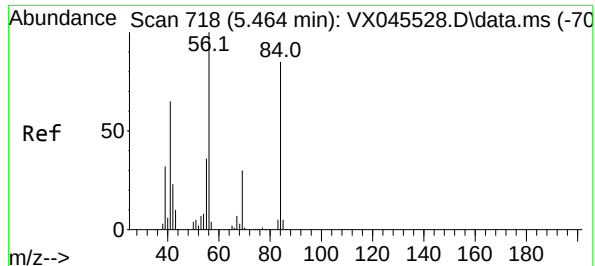
Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	83	Resp:	48639
Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.8	79.2





#31

Cyclohexane

Concen: 20.478 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 41450

Ion Ratio Lower Upper

56 100

69 30.0 23.6 35.4

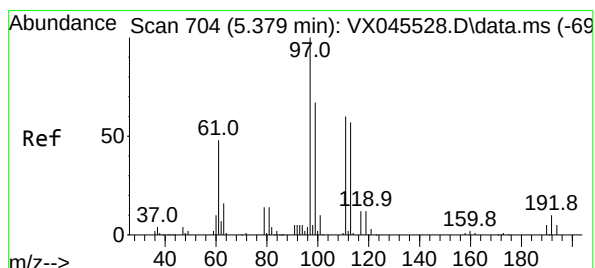
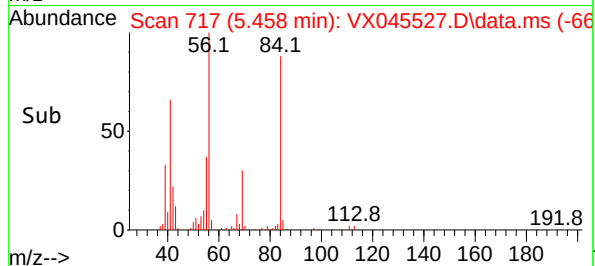
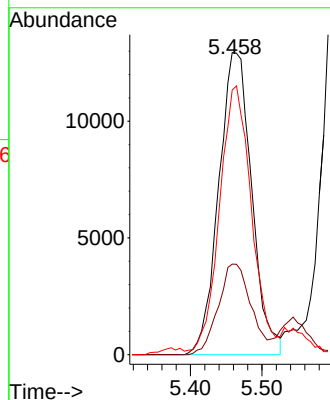
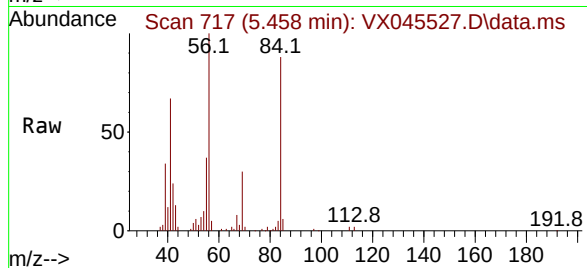
84 85.5 67.7 101.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#32

1,1,1-Trichloroethane

Concen: 20.270 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

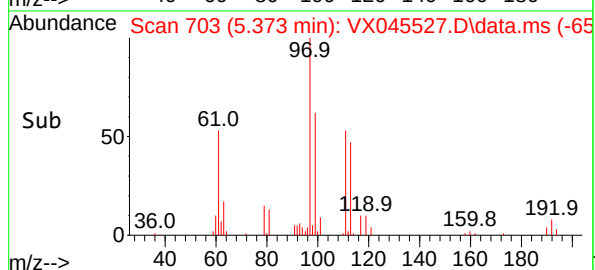
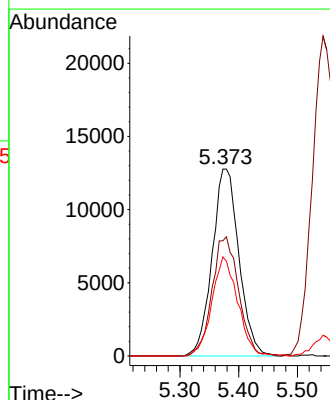
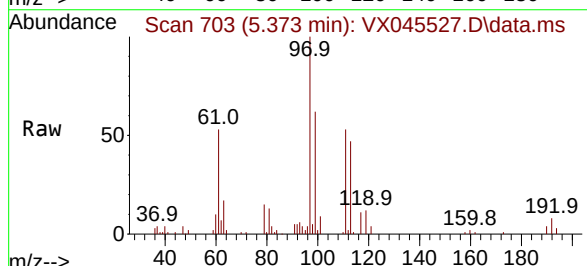
Tgt Ion: 97 Resp: 40407

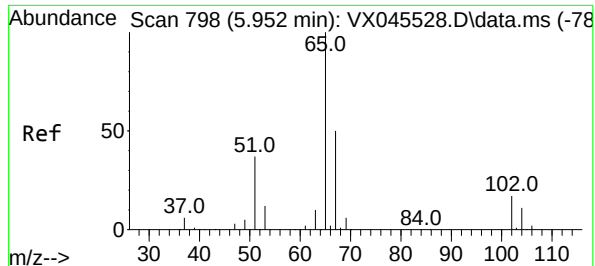
Ion Ratio Lower Upper

97 100

99 63.3 51.7 77.5

61 51.3 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 19.697 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 65 Resp: 32500

Ion Ratio Lower Upper

65 100

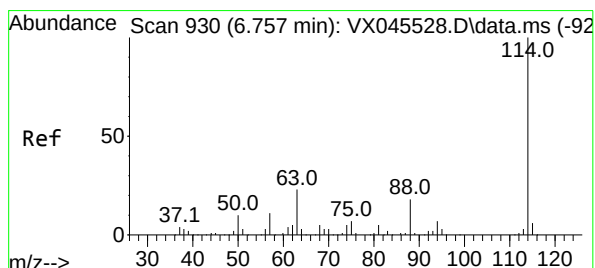
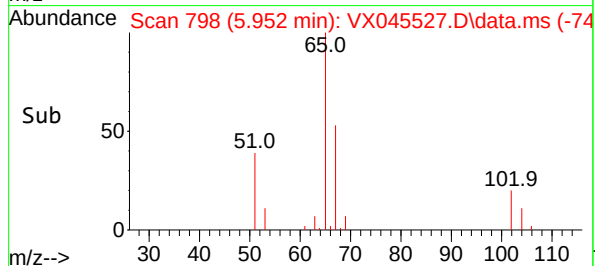
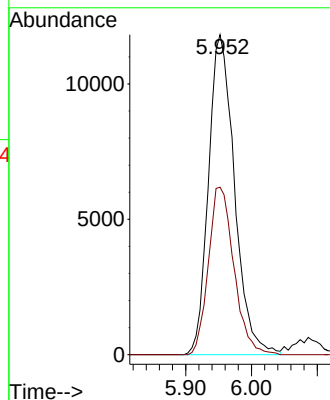
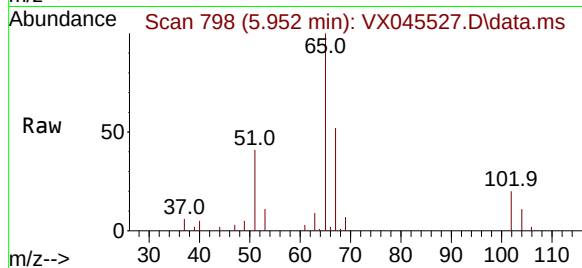
67 51.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

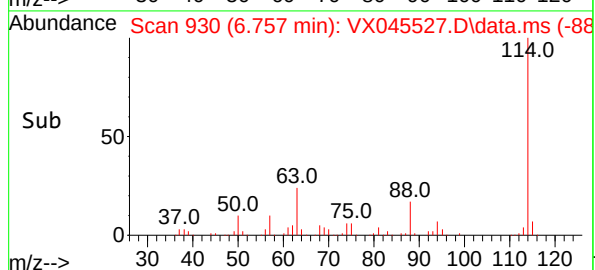
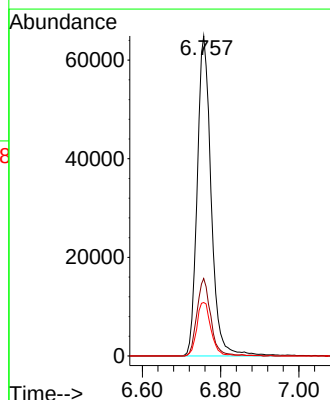
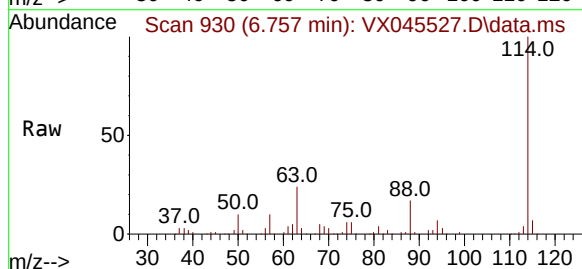
Tgt Ion:114 Resp: 160754

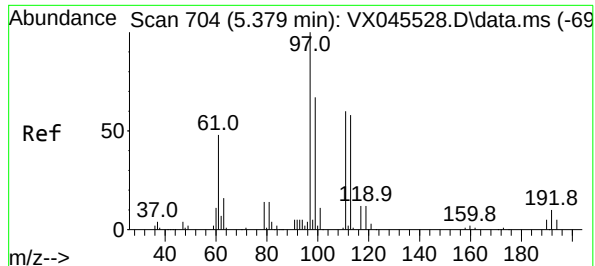
Ion Ratio Lower Upper

114 100

63 24.2 0.0 46.8

88 16.7 0.0 35.4





#35

Dibromofluoromethane

Concen: 19.256 ug/l

RT: 5.385 min Scan# 704

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

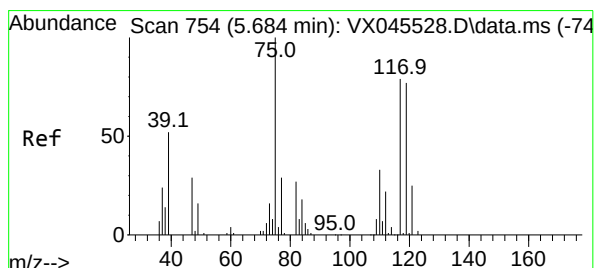
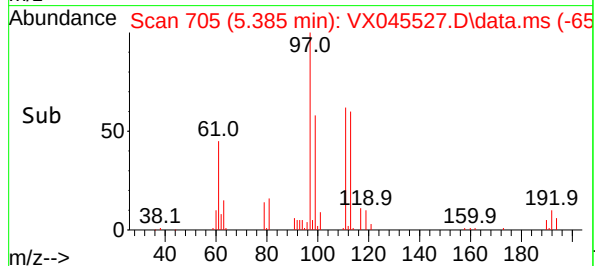
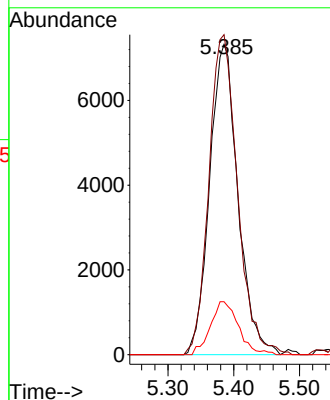
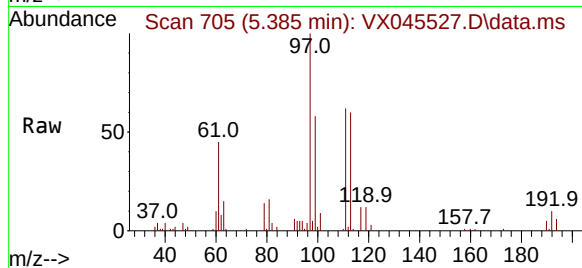
VSTDICC020

Tgt Ion:	113	Resp:	2196
Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.8	122.6
192	17.0	13.8	20.6

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#36

1,1-Dichloropropene

Concen: 19.808 ug/l

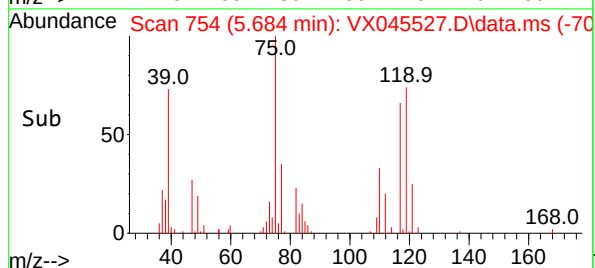
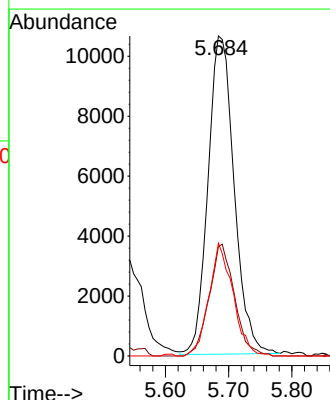
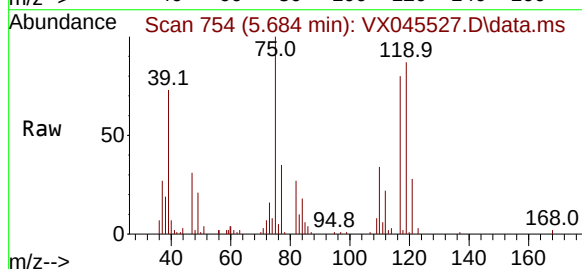
RT: 5.684 min Scan# 754

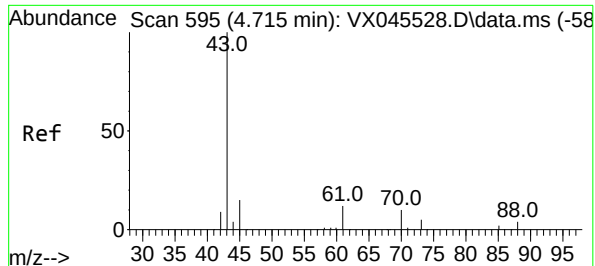
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	75	Resp:	30504
Ion	Ratio	Lower	Upper
75	100		
110	34.0	16.9	50.6
77	32.7	25.0	37.4





#37

Ethyl Acetate

Concen: 20.180 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

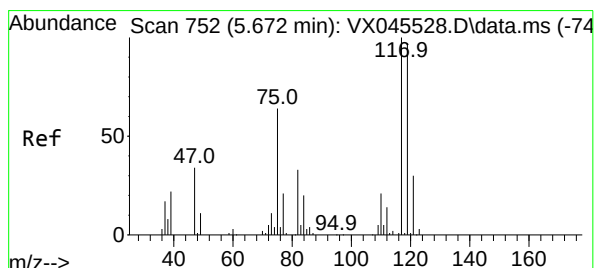
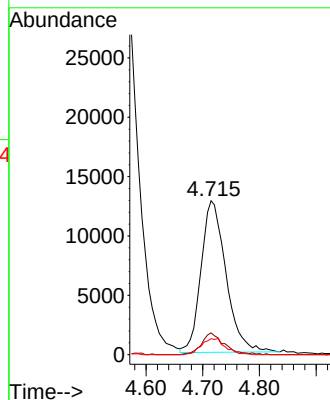
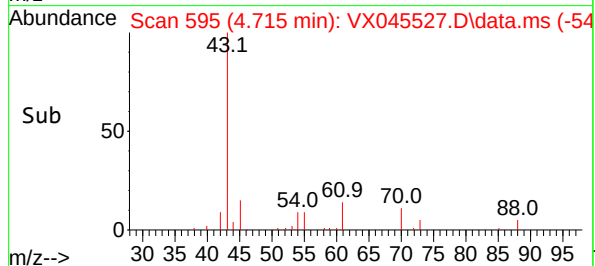
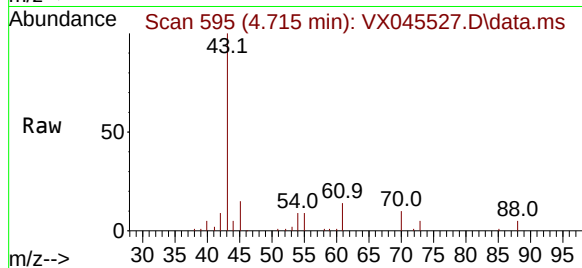
VSTDICC020

Tgt Ion:	43	Resp:	3916
Ion	Ratio	Lower	Upper
43	100		
61	13.1	9.9	14.9
70	10.1	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#38

Carbon Tetrachloride

Concen: 20.148 ug/l

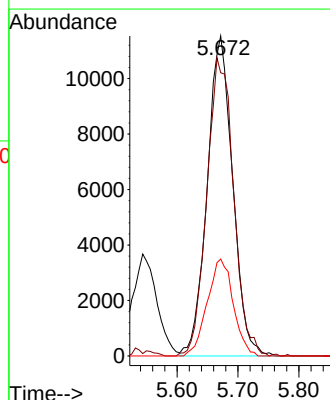
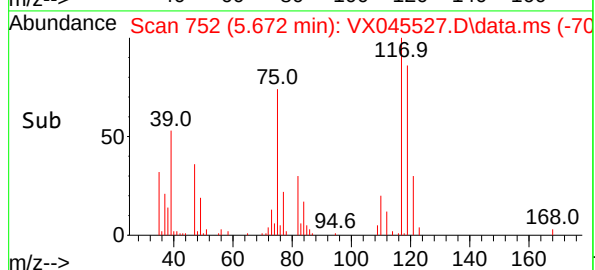
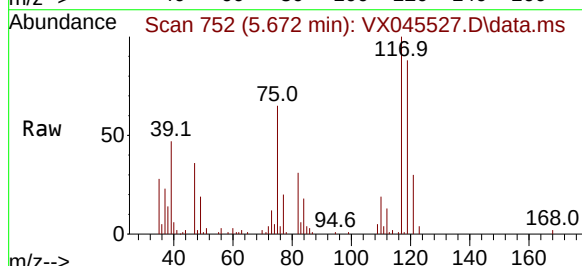
RT: 5.672 min Scan# 752

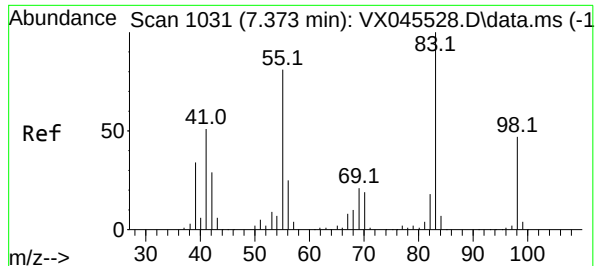
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	117	Resp:	33533
Ion	Ratio	Lower	Upper
117	100		
119	88.5	76.9	115.3
121	30.3	24.2	36.2





#39

Methylcyclohexane

Concen: 20.291 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

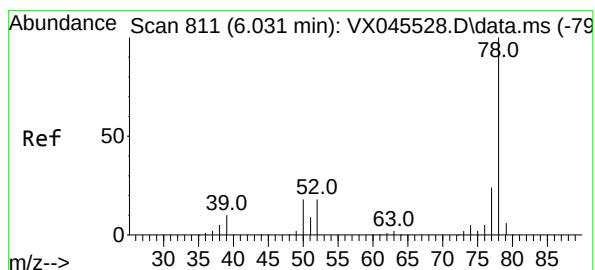
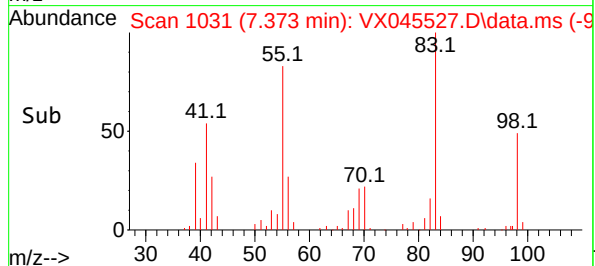
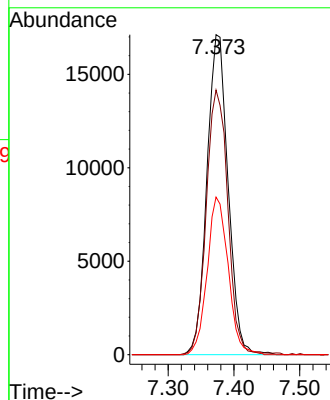
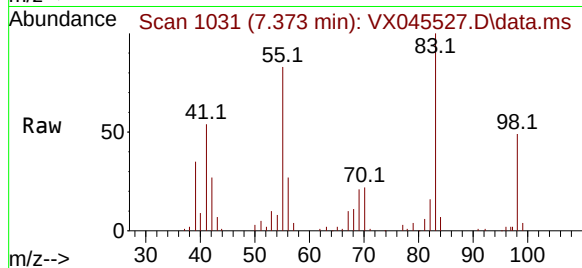
VSTDICC020

Tgt Ion:	83	Resp:	3830
Ion	Ratio	Lower	Upper
83	100		
55	82.7	64.9	97.3
98	49.2	37.4	56.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#40

Benzene

Concen: 20.766 ug/l

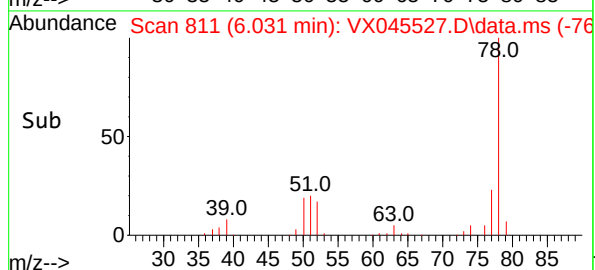
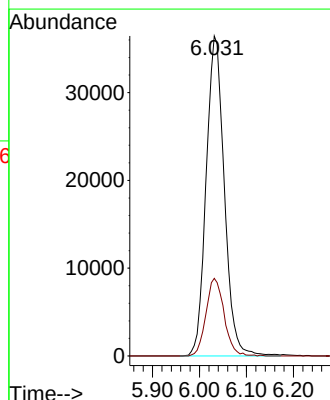
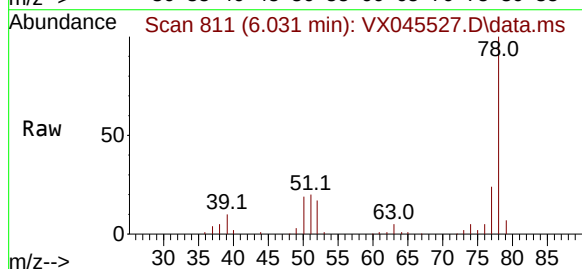
RT: 6.031 min Scan# 811

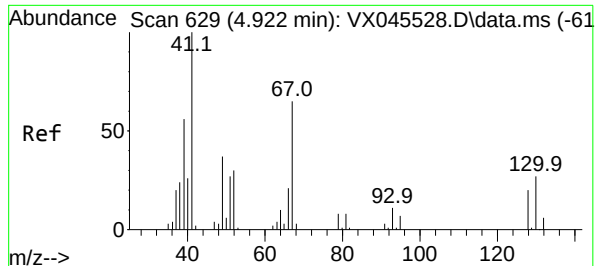
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	78	Resp:	97667
Ion	Ratio	Lower	Upper
78	100		
77	24.3	19.0	28.6





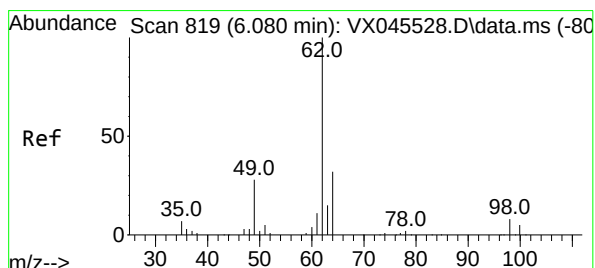
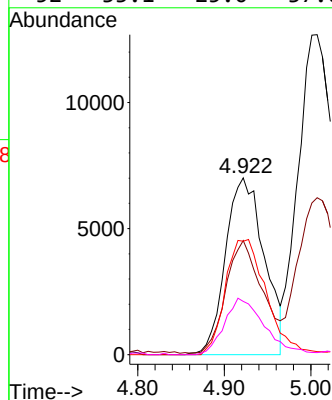
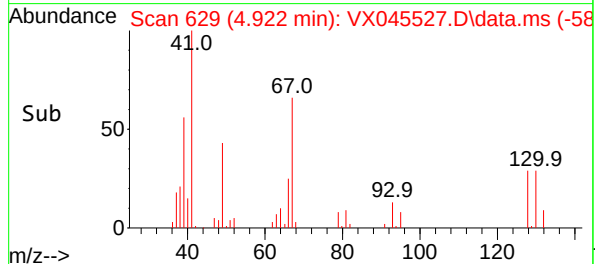
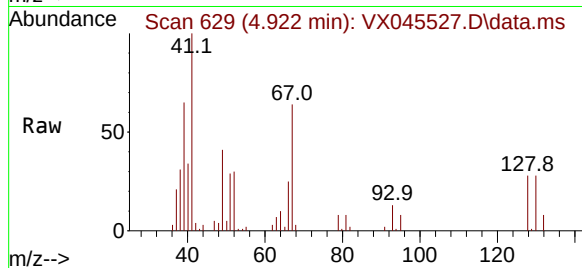
#41
Methacrylonitrile
Concen: 21.046 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 41 Resp: 21740
Ion Ratio Lower Upper
41 100
39 60.3 47.0 70.6
67 69.9 53.2 79.8
52 33.1 25.0 37.6

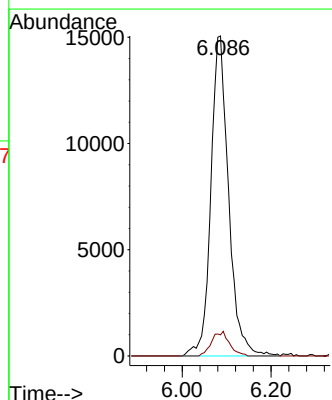
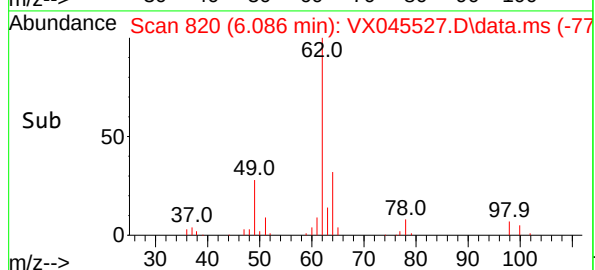
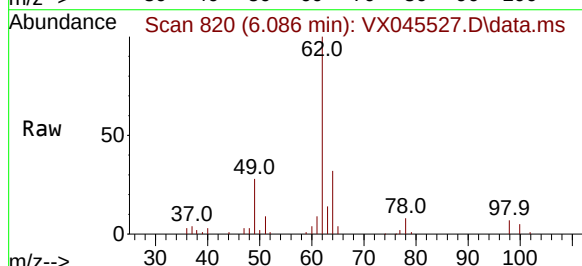
Manual Integrations
APPROVED

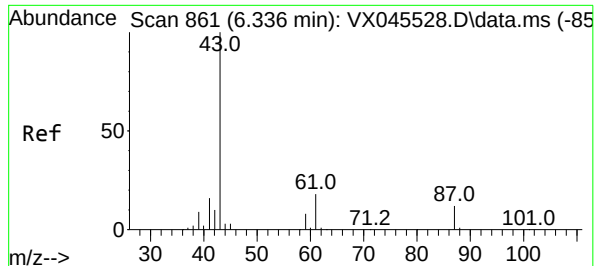
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#42
1,2-Dichloroethane
Concen: 21.484 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 62 Resp: 41733
Ion Ratio Lower Upper
62 100
98 7.7 0.0 15.2





#43

Isopropyl Acetate

Concen: 20.814 ug/l

RT: 6.342 min Scan# 862

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

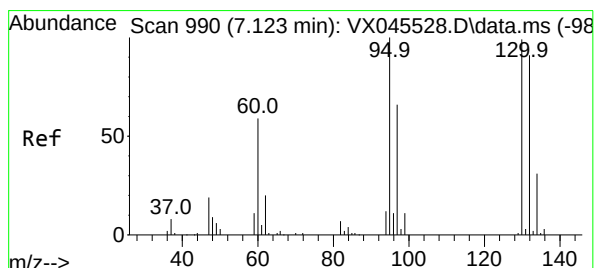
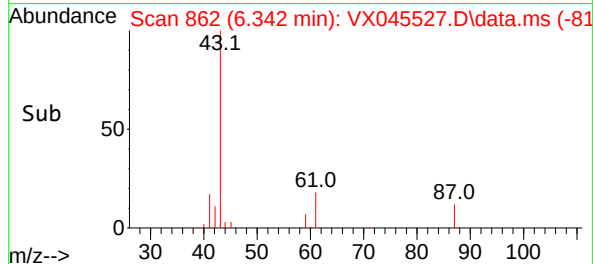
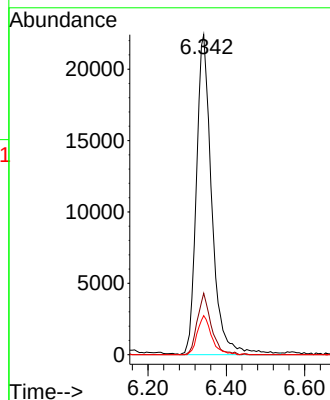
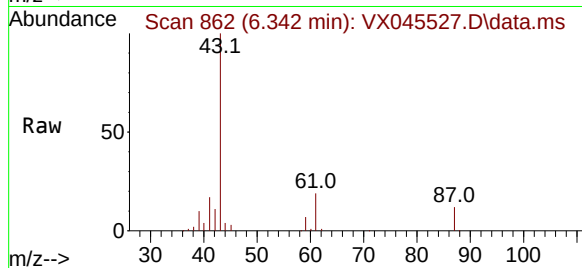
VSTDICC020

Tgt Ion:	43	Resp:	6122
Ion	Ratio	Lower	Upper
43	100		
61	17.3	14.1	21.1
87	11.2	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#44

Trichloroethene

Concen: 20.501 ug/l

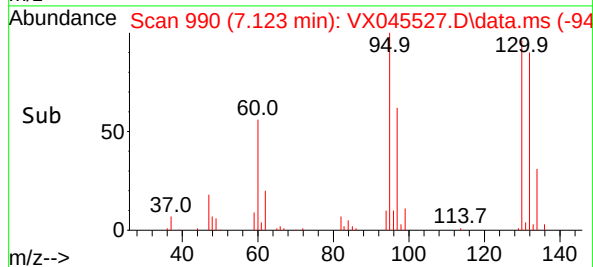
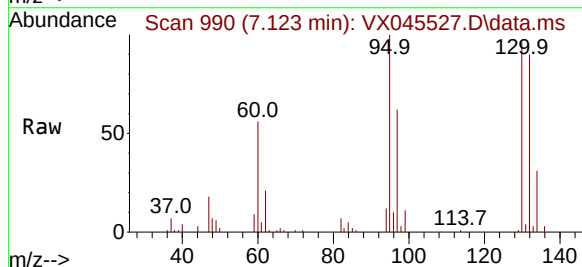
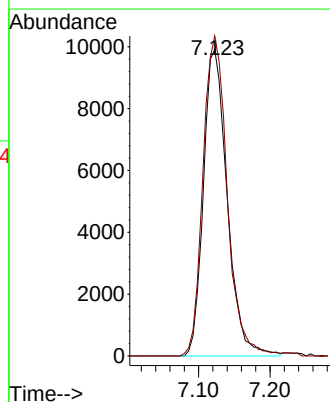
RT: 7.123 min Scan# 990

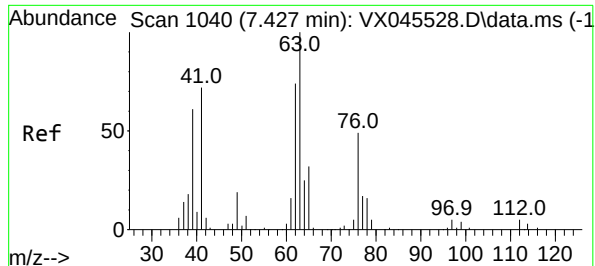
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	130	Resp:	22918
Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	202.0





#45

1,2-Dichloropropane

Concen: 21.241 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 24920

Ion Ratio Lower Upper

63 100

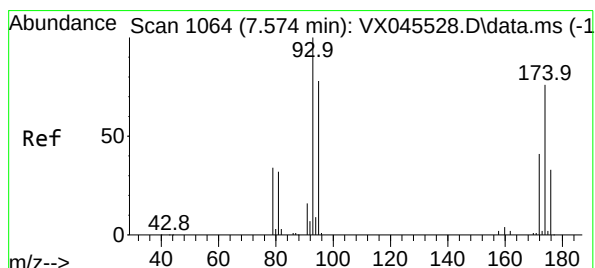
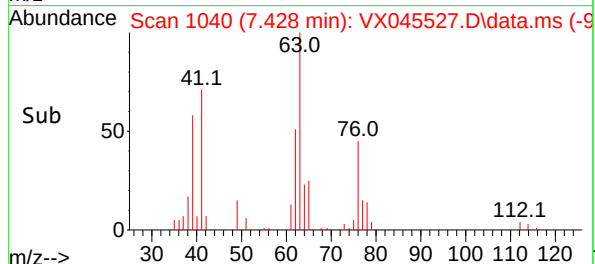
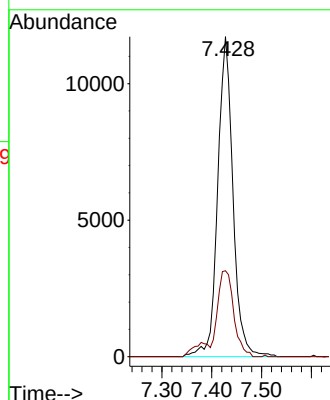
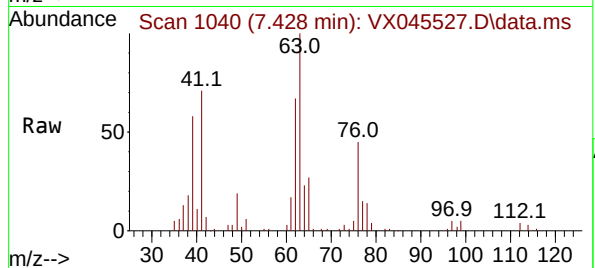
65 26.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#46

Dibromomethane

Concen: 21.207 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

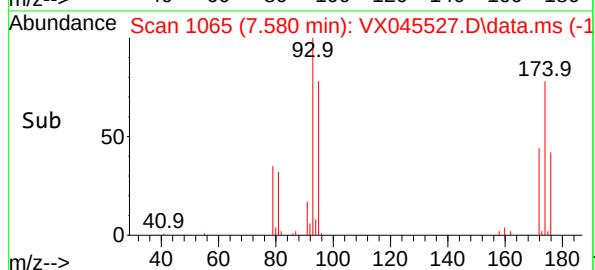
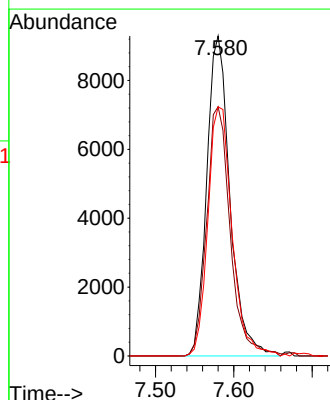
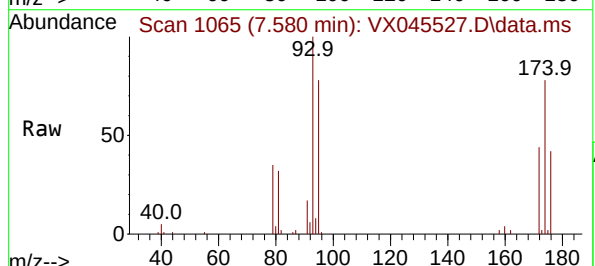
Tgt Ion: 93 Resp: 19104

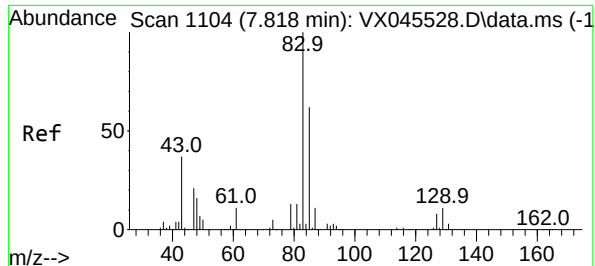
Ion Ratio Lower Upper

93 100

95 79.2 64.8 97.2

174 81.1 65.4 98.0





#47

Bromodichloromethane

Concen: 20.587 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

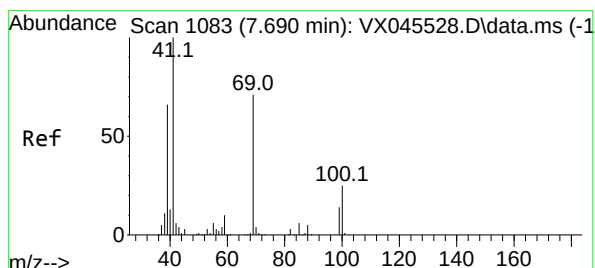
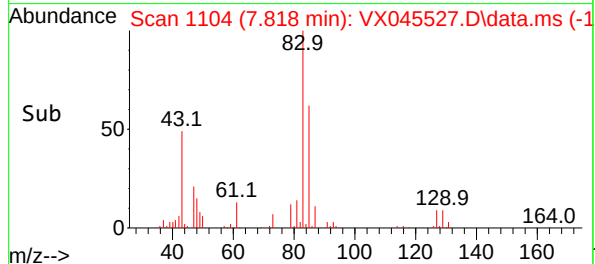
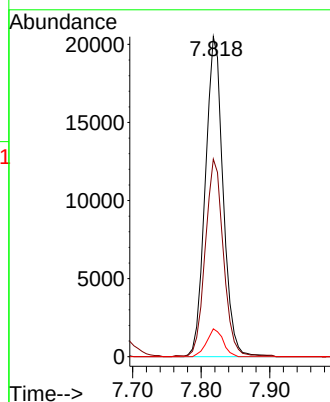
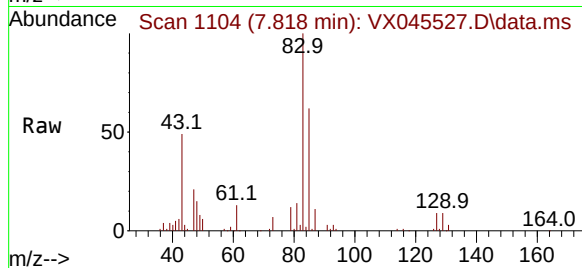
VSTDIC020

Tgt Ion:	83	Resp:	3703
Ion	Ratio	Lower	Upper
83	100		
85	61.7	49.7	74.5
127	8.7	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#48

Methyl methacrylate

Concen: 20.575 ug/l

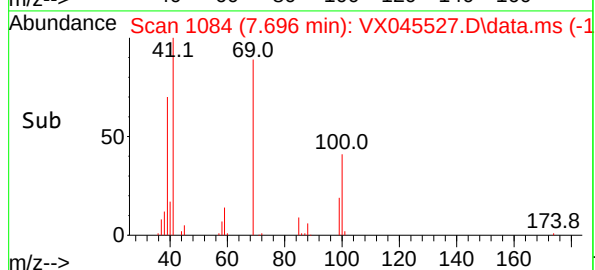
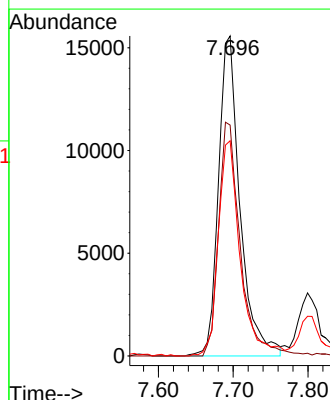
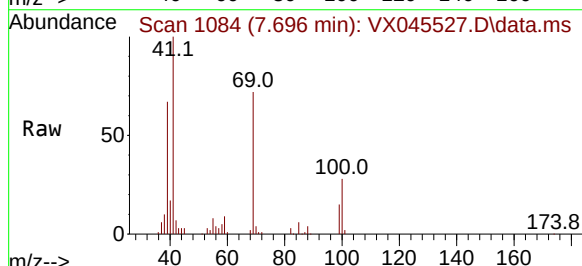
RT: 7.696 min Scan# 1084

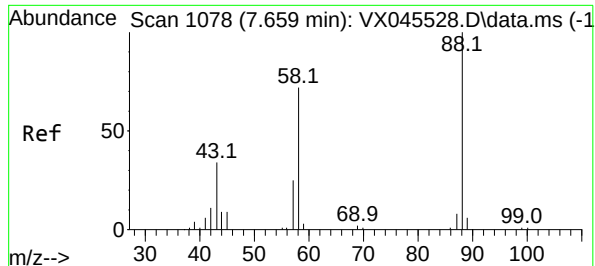
Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	41	Resp:	31247
Ion	Ratio	Lower	Upper
41	100		
69	73.4	58.2	87.2
39	68.7	53.6	80.4





#49

1,4-Dioxane

Concen: 440.515 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

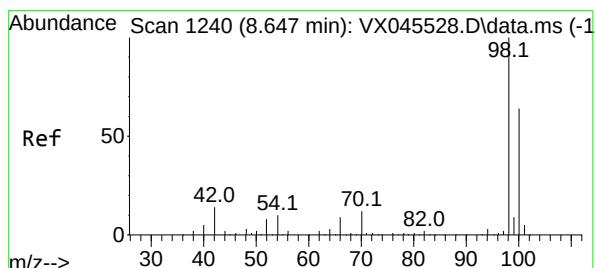
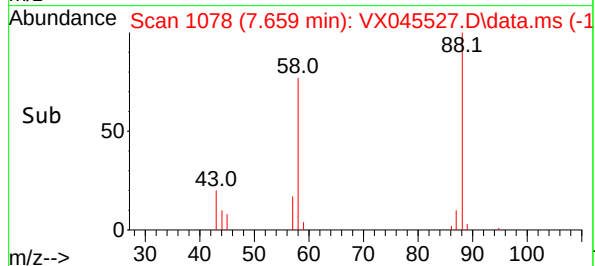
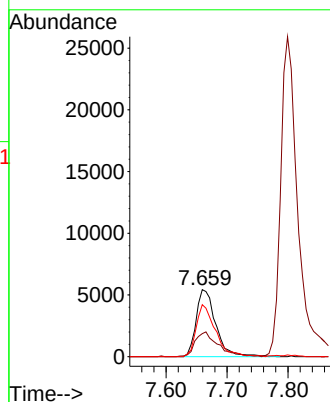
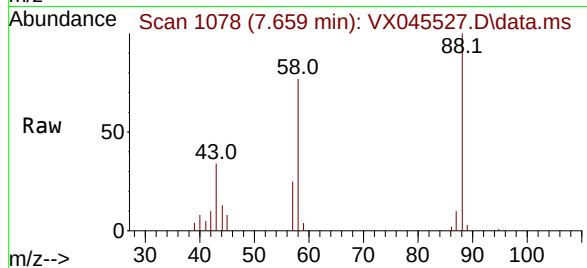
VSTDICC020

Tgt Ion:	88	Resp:	12104
Ion	Ratio	Lower	Upper
88	100		
43	43.5	32.2	48.4
58	76.4	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#50

Toluene-d8

Concen: 19.921 ug/l

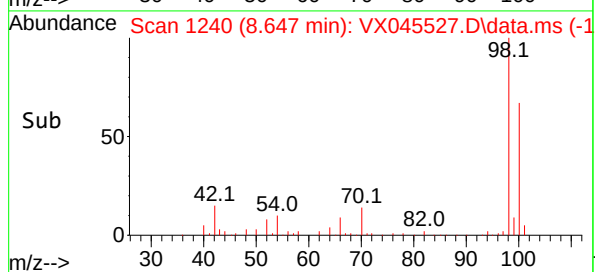
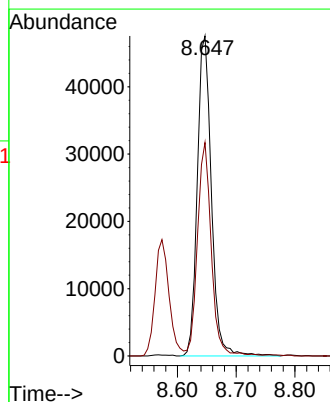
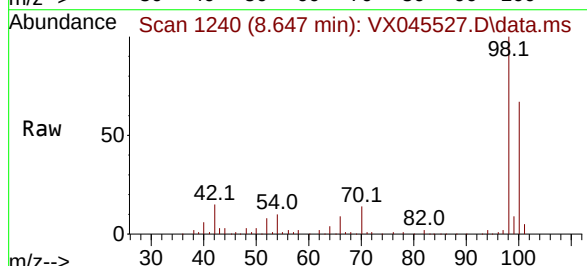
RT: 8.647 min Scan# 1240

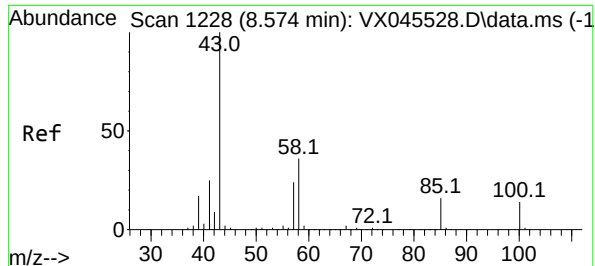
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	98	Resp:	79303
Ion	Ratio	Lower	Upper
98	100		
100	64.7	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 109.055 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 21264

Ion Ratio Lower Upper

43 100

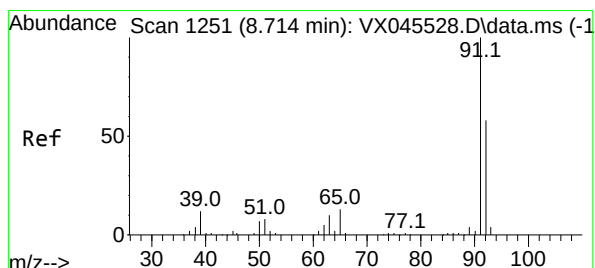
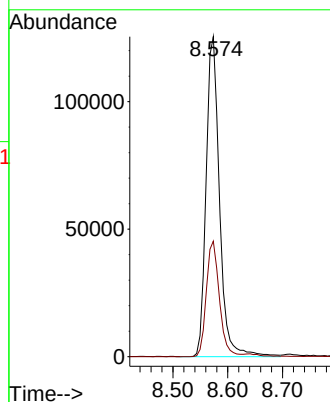
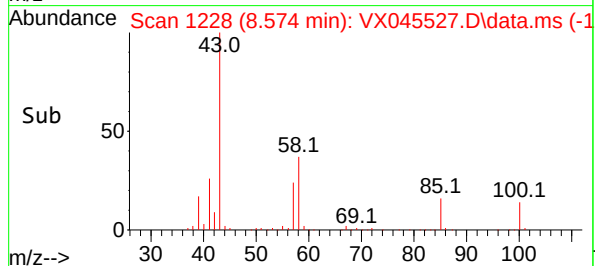
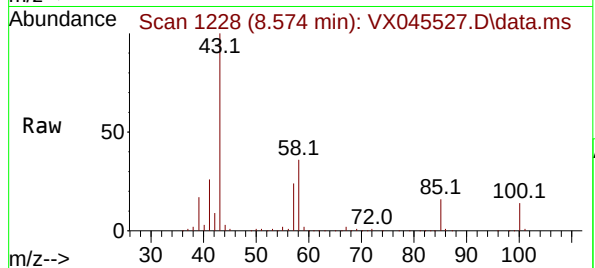
58 35.2 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#52

Toluene

Concen: 21.208 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX045527.D

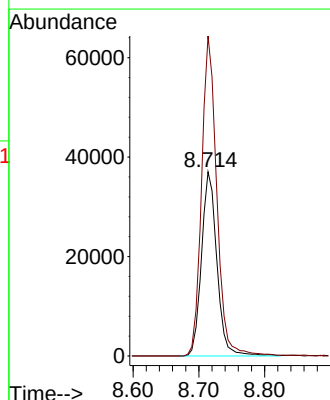
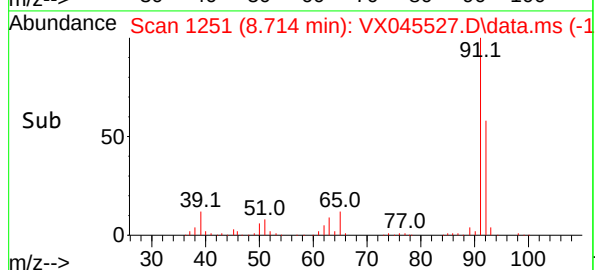
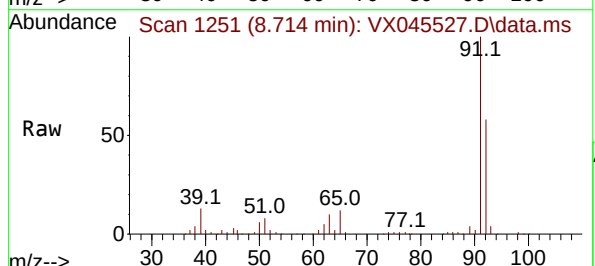
Acq: 01 Apr 2025 17:52

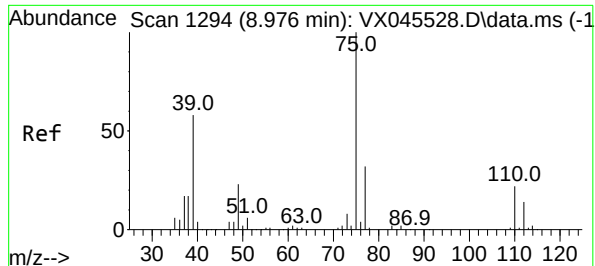
Tgt Ion: 92 Resp: 60357

Ion Ratio Lower Upper

92 100

91 171.6 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 18.764 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 29870

Ion Ratio Lower Upper

75 100

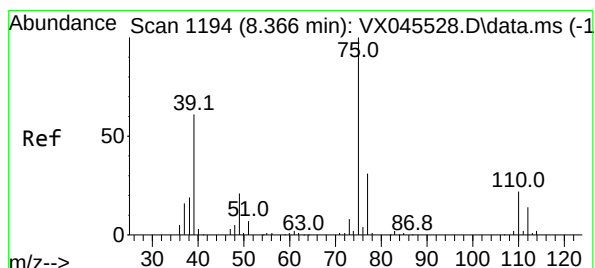
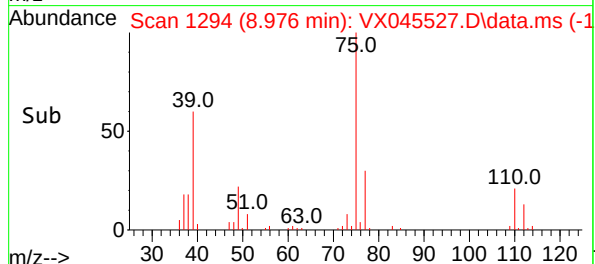
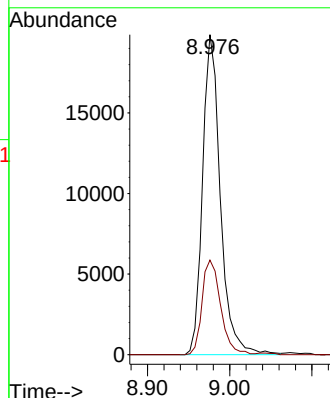
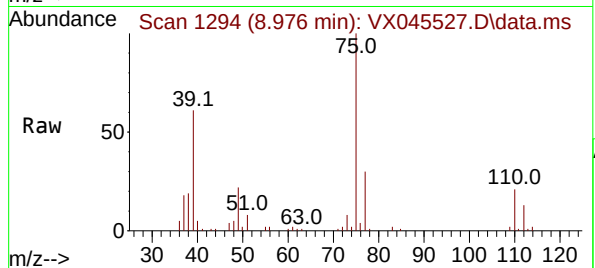
77 29.5 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#54

cis-1,3-Dichloropropene

Concen: 20.762 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

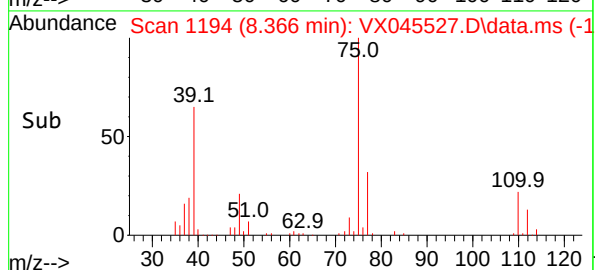
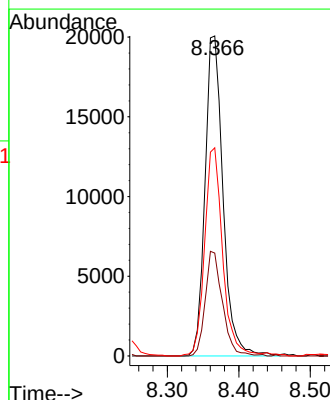
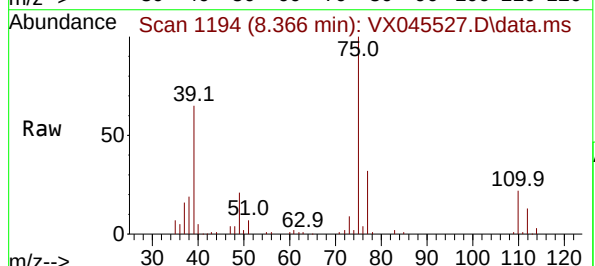
Tgt Ion: 75 Resp: 35099

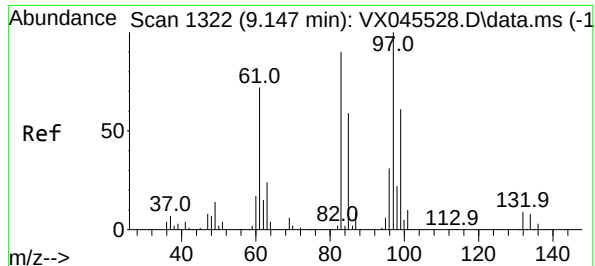
Ion Ratio Lower Upper

75 100

77 32.1 24.6 36.8

39 65.0 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 21.331 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 97 Resp: 2419

Ion Ratio Lower Upper

97 100

83 93.4 71.8 107.8

85 55.9 47.0 70.6

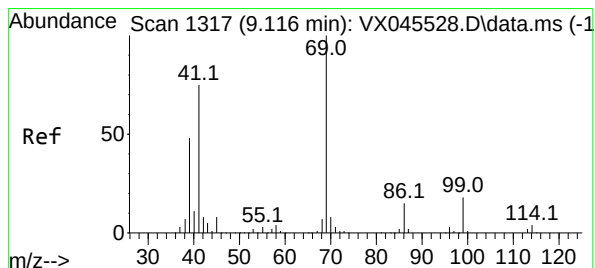
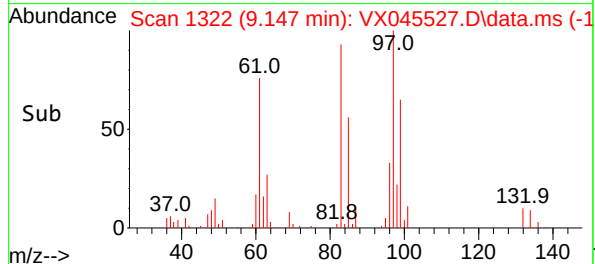
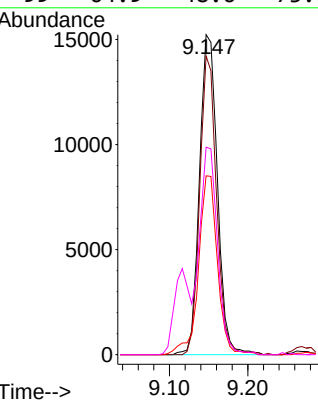
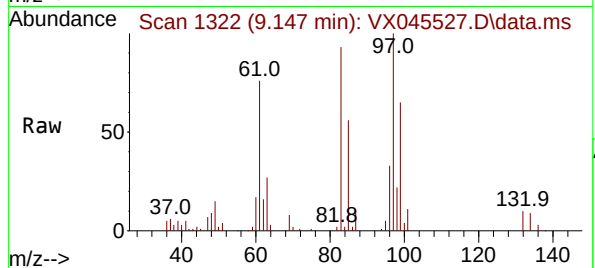
99 64.9 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#56

Ethyl methacrylate

Concen: 20.600 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

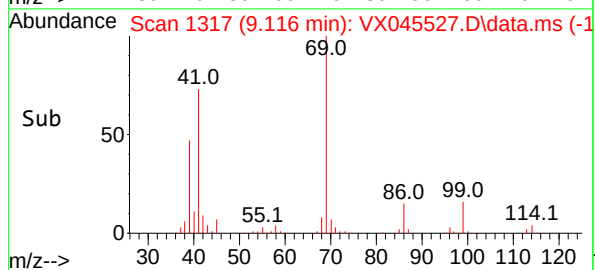
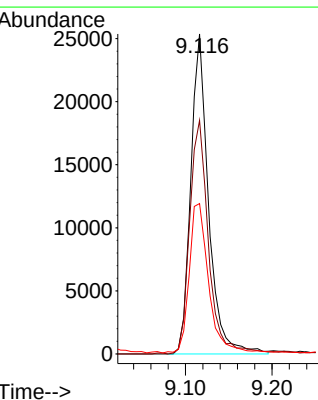
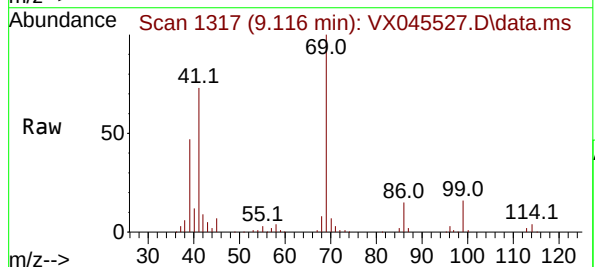
Tgt Ion: 69 Resp: 36155

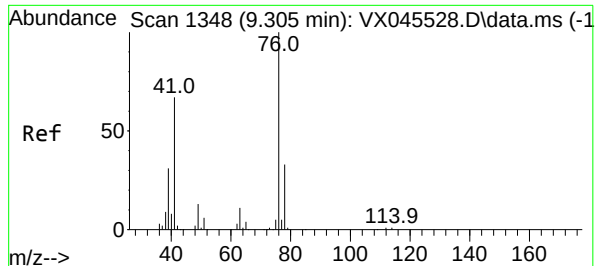
Ion Ratio Lower Upper

69 100

41 77.4 61.3 91.9

39 51.5 40.2 60.2





#57

1,3-Dichloropropane

Concen: 21.217 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 41900

Ion Ratio Lower Upper

76 100

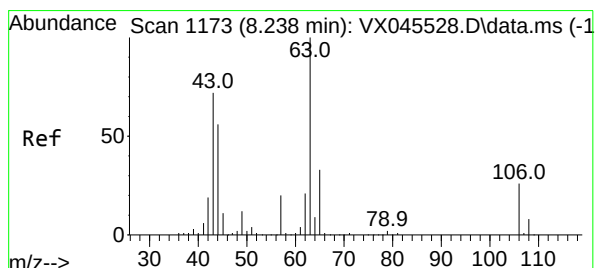
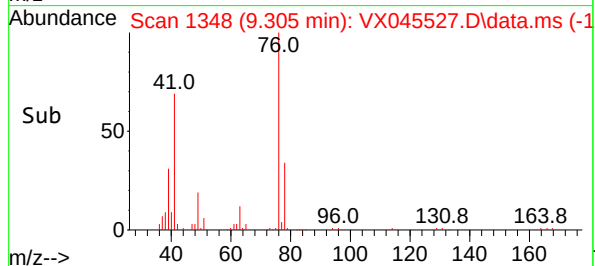
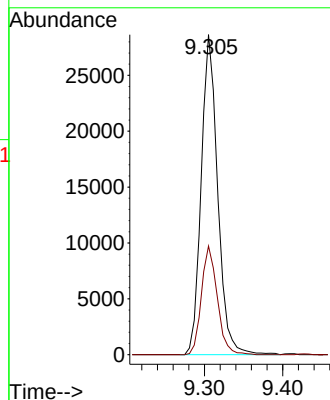
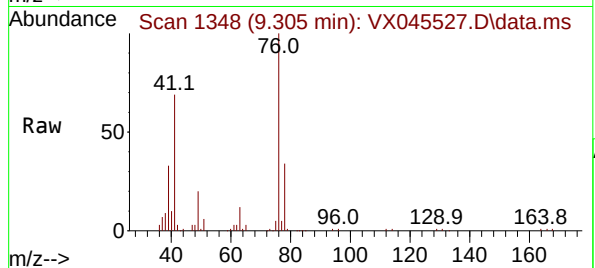
78 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#58

2-Chloroethyl Vinyl ether

Concen: 103.534 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045527.D

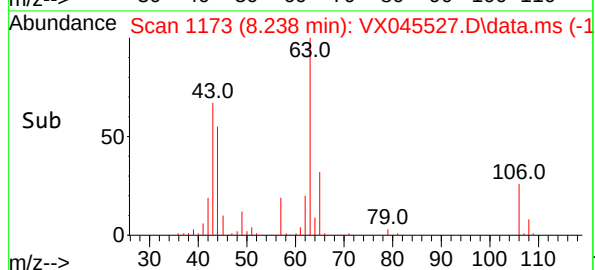
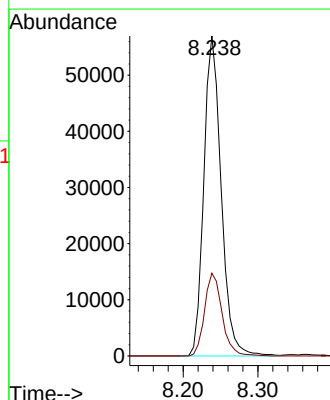
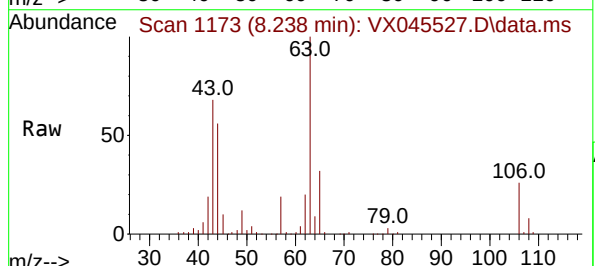
Acq: 01 Apr 2025 17:52

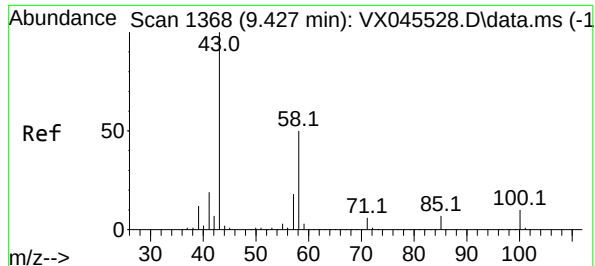
Tgt Ion: 63 Resp: 91923

Ion Ratio Lower Upper

63 100

106 26.1 21.0 31.6





#59

2-Hexanone

Concen: 108.730 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 15699

Ion Ratio Lower Upper

43 100

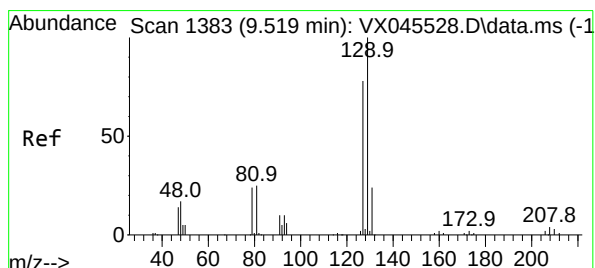
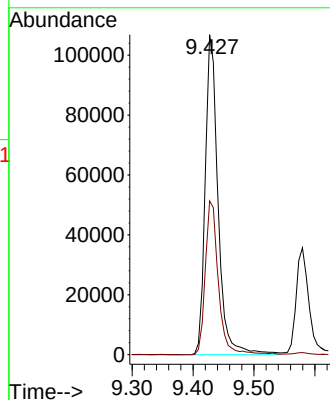
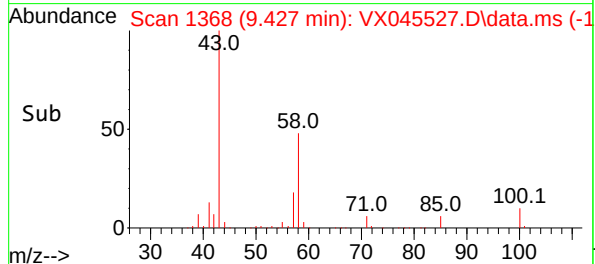
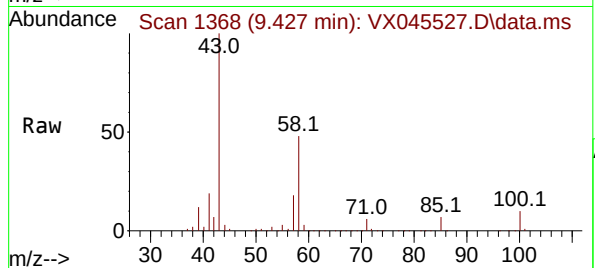
58 49.1 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#60

Dibromochloromethane

Concen: 21.023 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045527.D

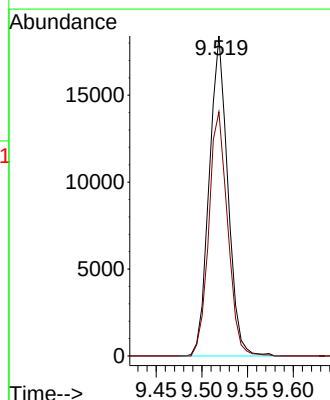
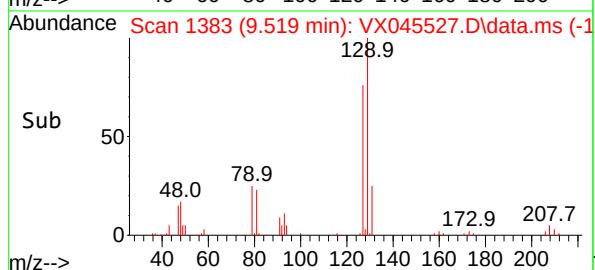
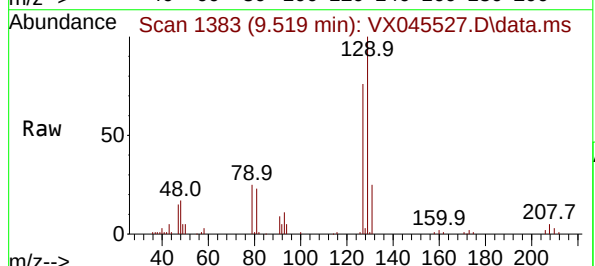
Acq: 01 Apr 2025 17:52

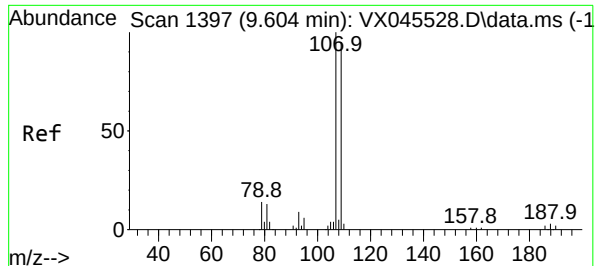
Tgt Ion:129 Resp: 25992

Ion Ratio Lower Upper

129 100

127 77.3 39.4 118.2





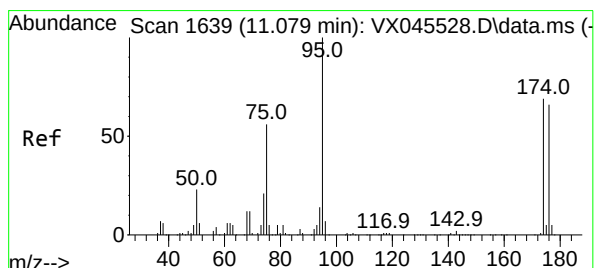
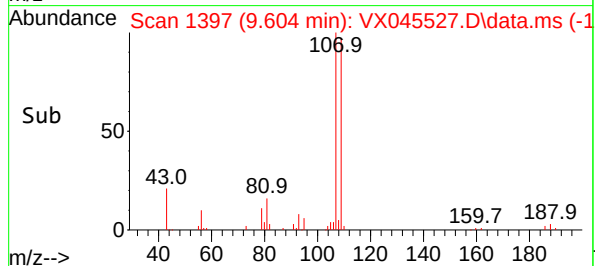
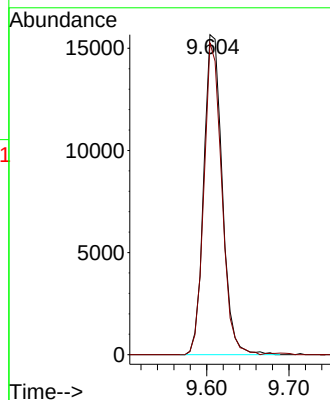
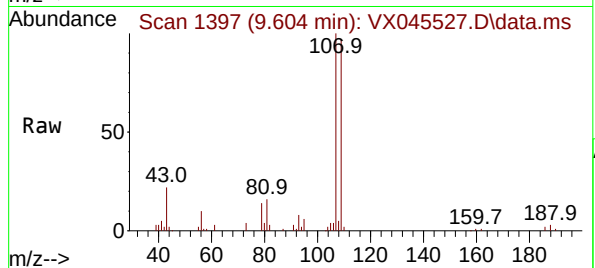
#61
1,2-Dibromoethane
Concen: 21.303 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:107 Resp: 24450
Ion Ratio Lower Upper
107 100
109 93.8 75.7 113.5

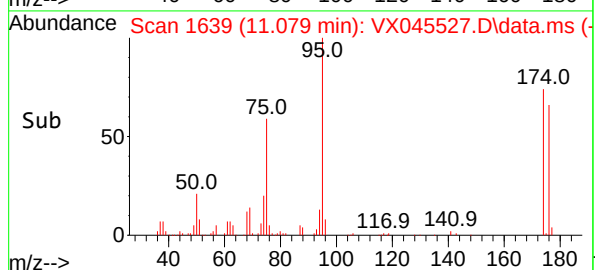
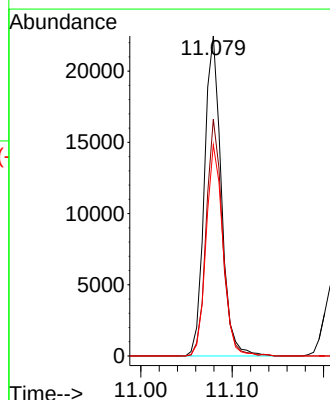
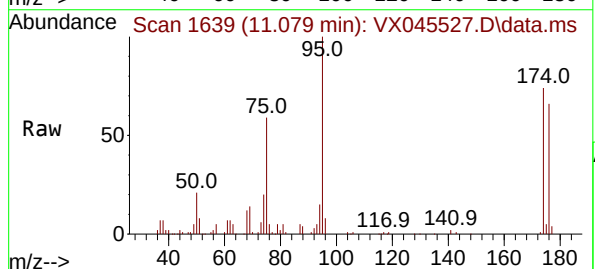
Manual Integrations
APPROVED

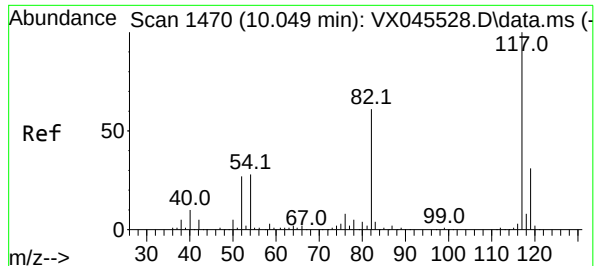
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#62
4-Bromofluorobenzene
Concen: 19.858 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 95 Resp: 28795
Ion Ratio Lower Upper
95 100
174 71.1 0.0 135.8
176 65.8 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

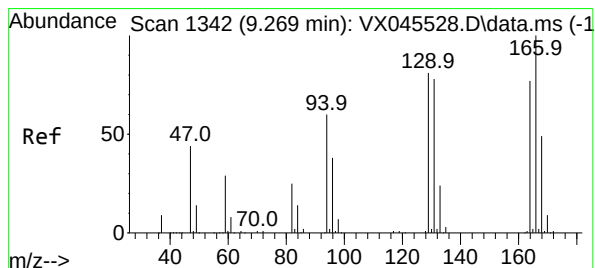
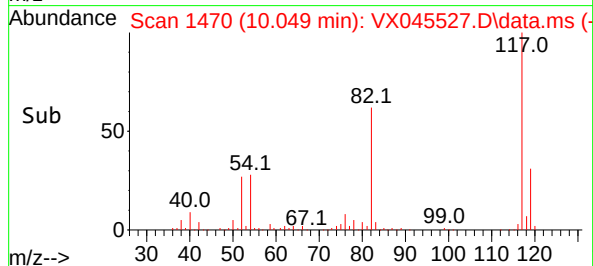
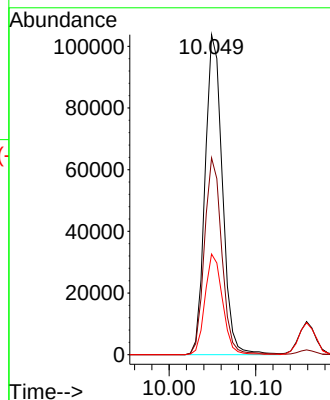
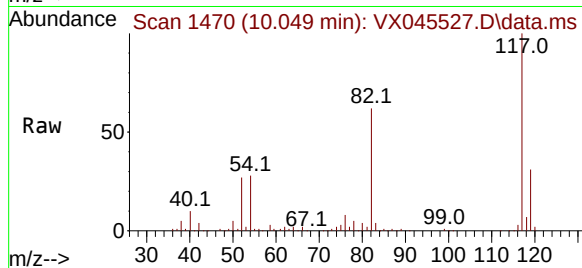
VSTDICC020

Tgt Ion:117	Resp: 14408
Ion Ratio	Lower Upper
117 100	
82 61.5	49.2 73.8
119 31.5	25.1 37.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#64

Tetrachloroethene

Concen: 21.015 ug/l

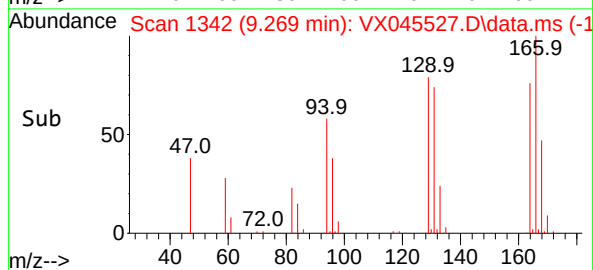
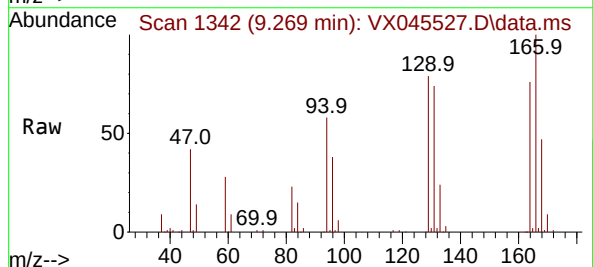
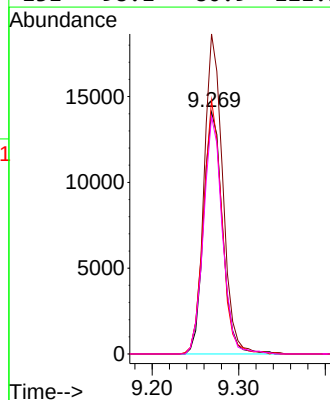
RT: 9.269 min Scan# 1342

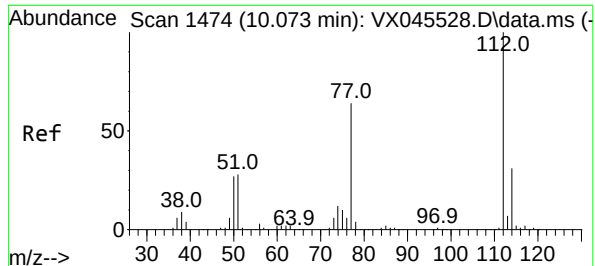
Delta R.T. -0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:164	Resp: 21379
Ion Ratio	Lower Upper
164 100	
166 132.2	103.8 155.8
129 104.9	84.3 126.5
131 98.1	80.9 121.3





#65

Chlorobenzene

Concen: 21.023 ug/l

RT: 10.079 min Scan# 1474

Delta R.T. 0.006 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:112 Resp: 6472

Ion Ratio Lower Upper

112 100

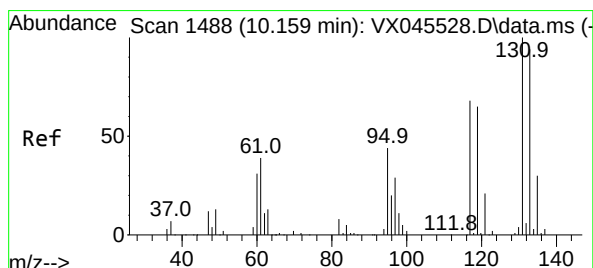
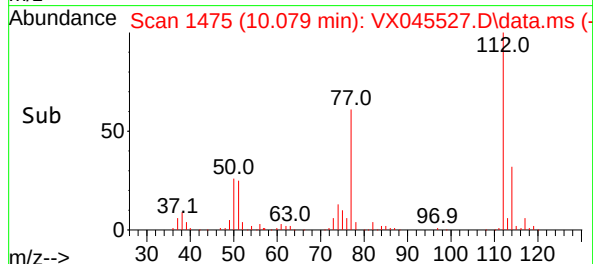
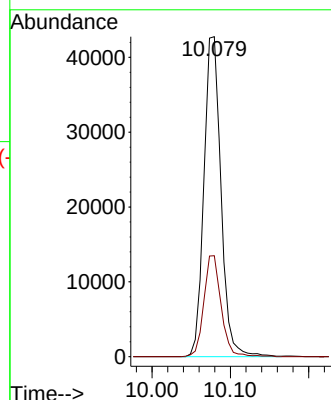
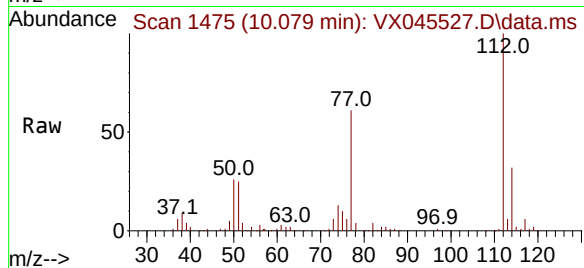
114 31.6 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 20.064 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

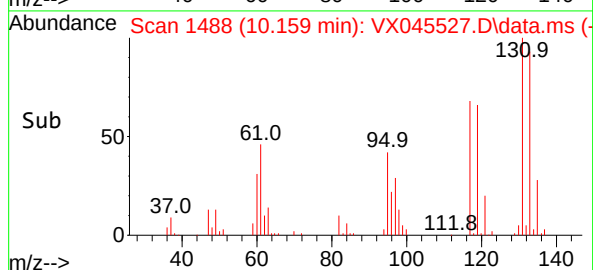
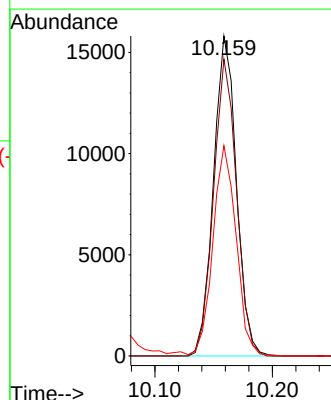
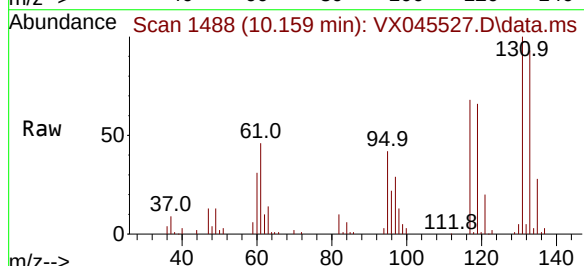
Tgt Ion:131 Resp: 21447

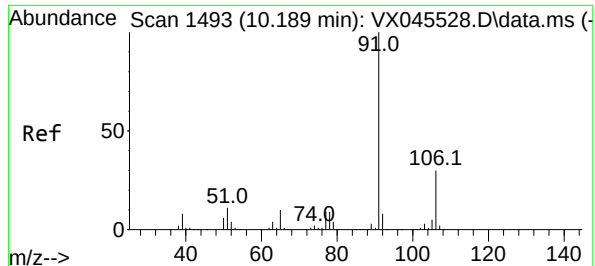
Ion Ratio Lower Upper

131 100

133 92.8 47.5 142.5

119 66.3 32.9 98.6





#67

Ethyl Benzene

Concen: 20.921 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 115368

Ion Ratio Lower Upper

91 100

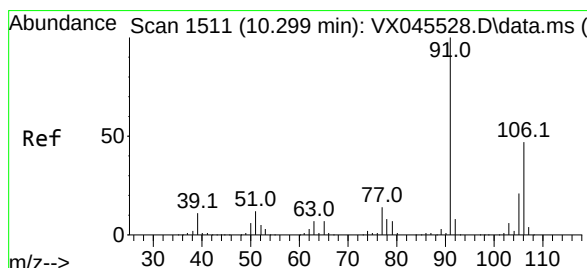
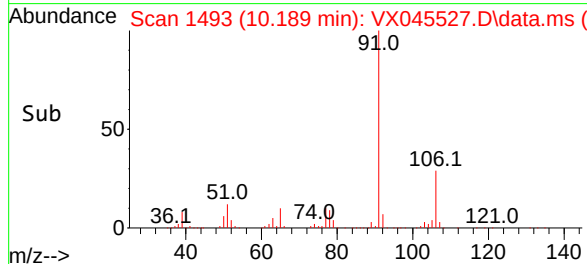
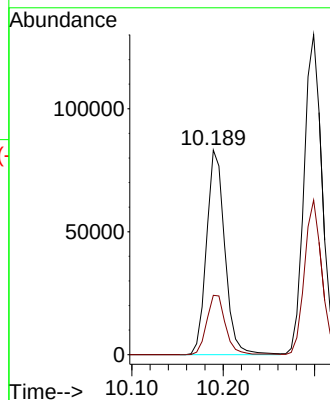
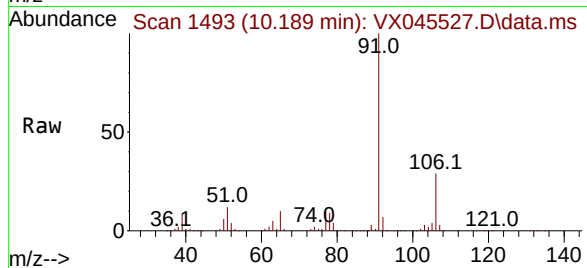
106 29.0 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#68

m/p-Xylenes

Concen: 42.092 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045527.D

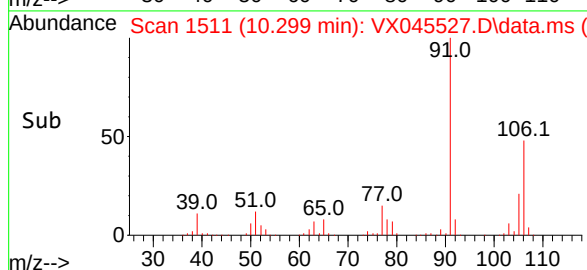
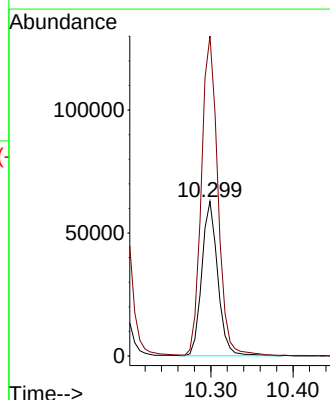
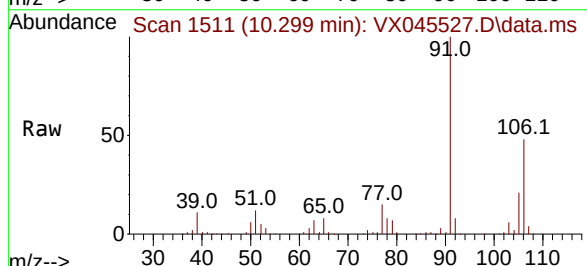
Acq: 01 Apr 2025 17:52

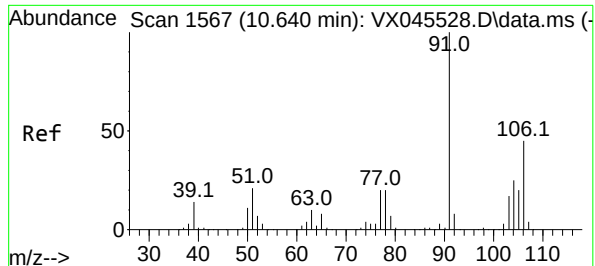
Tgt Ion:106 Resp: 84420

Ion Ratio Lower Upper

106 100

91 214.4 172.6 258.8





#69

o-Xylene

Concen: 21.158 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:106 Resp: 4180

Ion Ratio Lower Upper

106 100

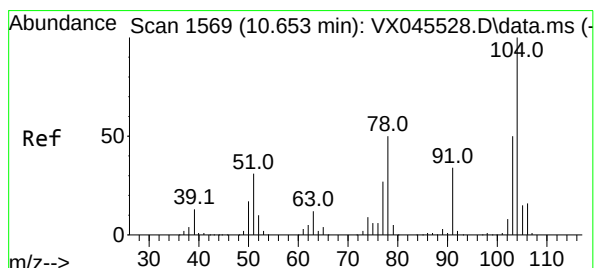
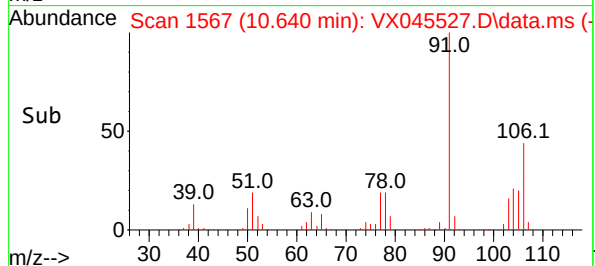
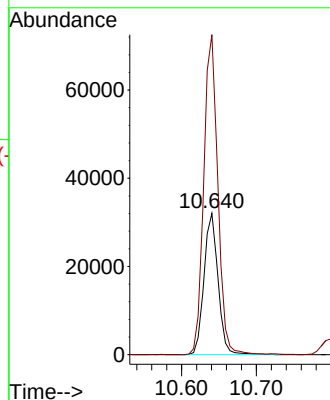
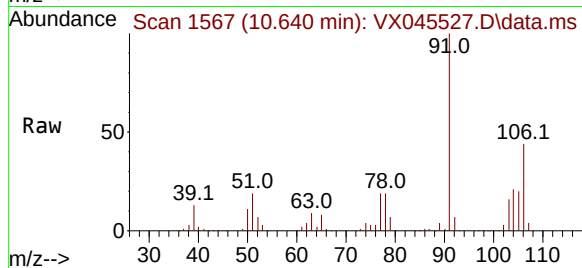
91 226.9 113.6 340.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#70

Styrene

Concen: 21.249 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

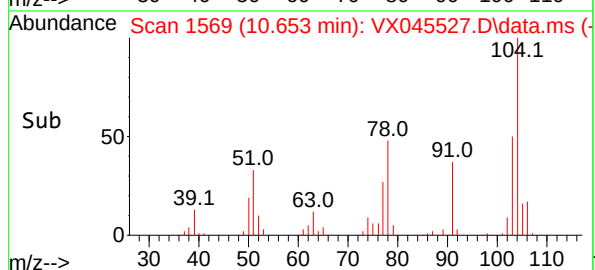
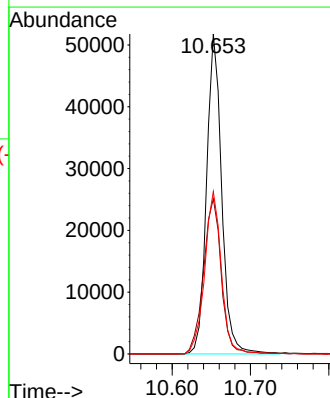
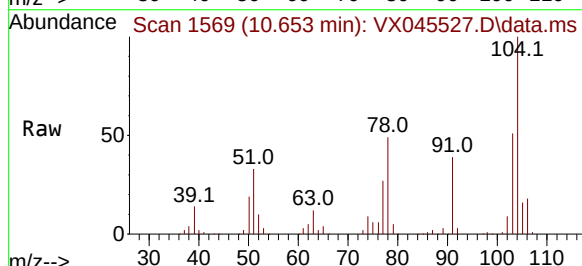
Tgt Ion:104 Resp: 69290

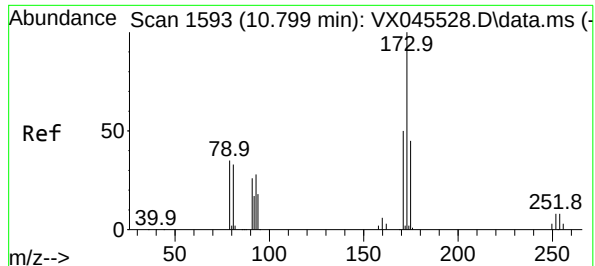
Ion Ratio Lower Upper

104 100

78 57.0 45.4 68.2

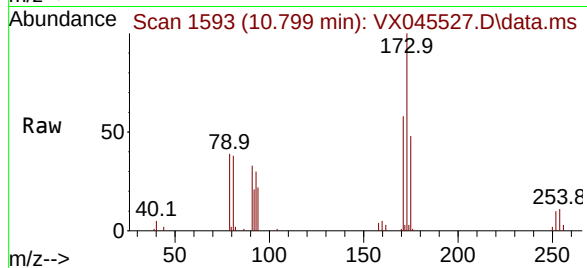
103 56.5 43.8 65.8





#71
Bromoform
Concen: 19.619 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

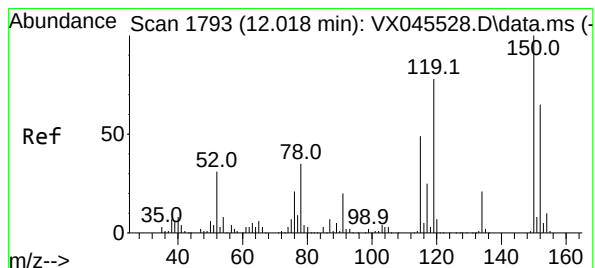
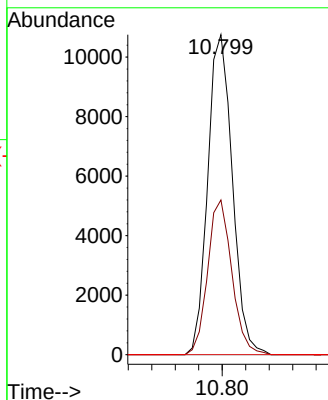
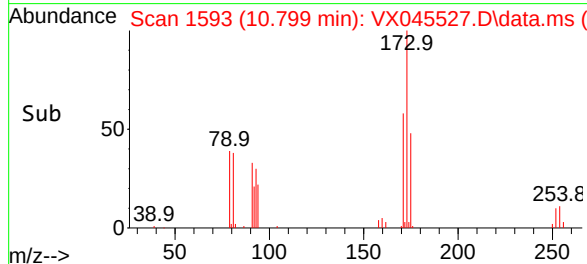
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



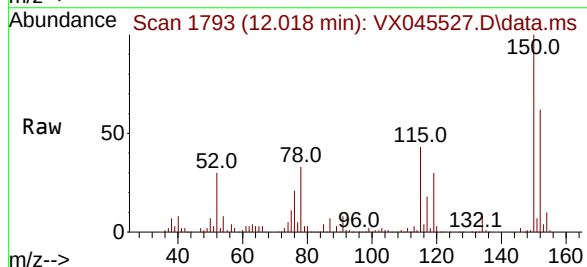
Tgt Ion:173 Resp: 15659
Ion Ratio Lower Upper
173 100
175 47.5 23.4 70.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

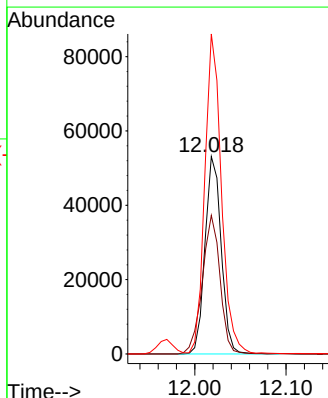
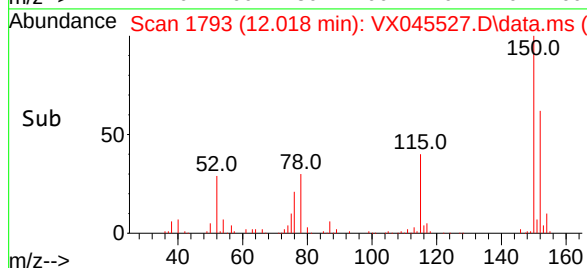
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

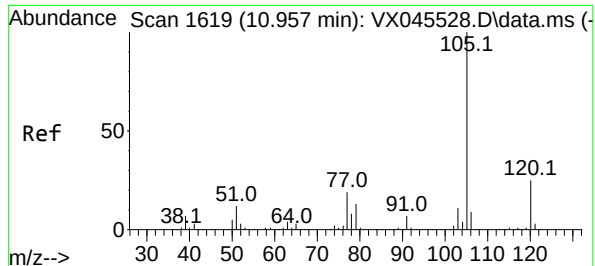


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52



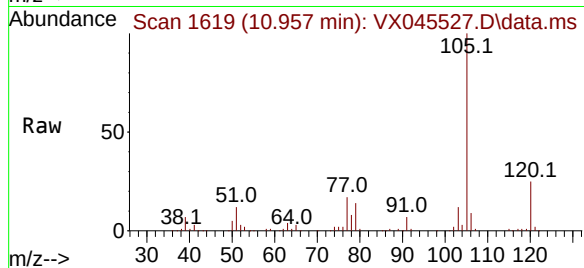
Tgt Ion:152 Resp: 65341
Ion Ratio Lower Upper
152 100
115 76.8 46.9 140.7
150 166.0 0.0 349.4





#73
Isopropylbenzene
Concen: 21.093 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

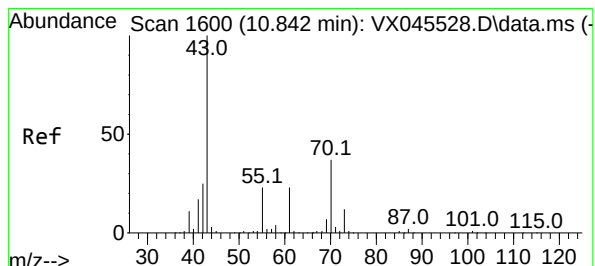
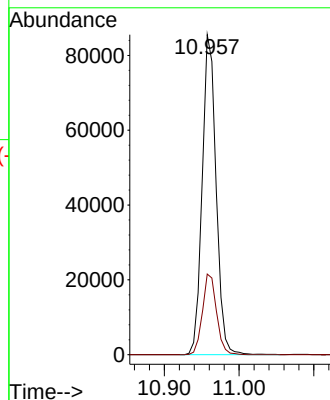
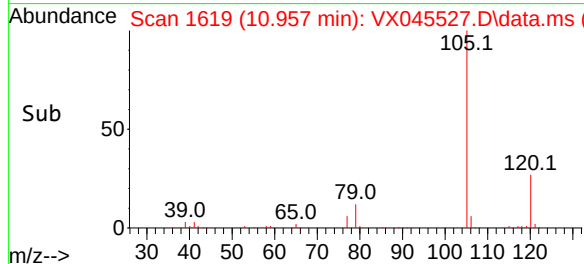
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 110390
Ion Ratio Lower Upper
105 100
120 25.5 12.7 38.0

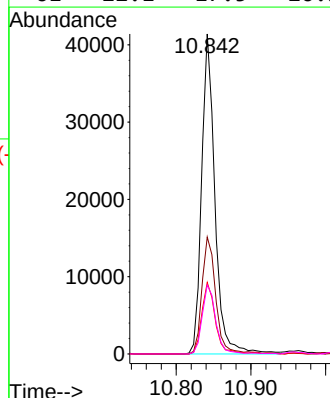
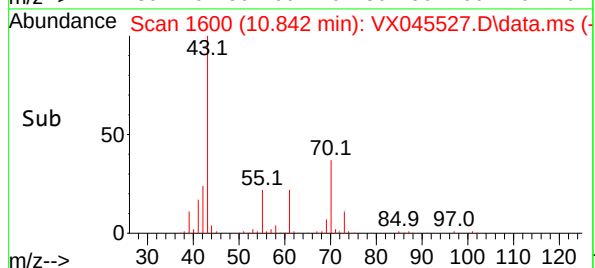
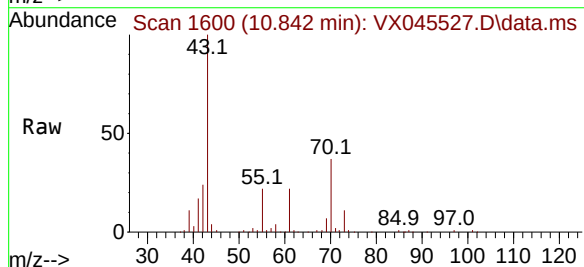
Manual Integrations
APPROVED

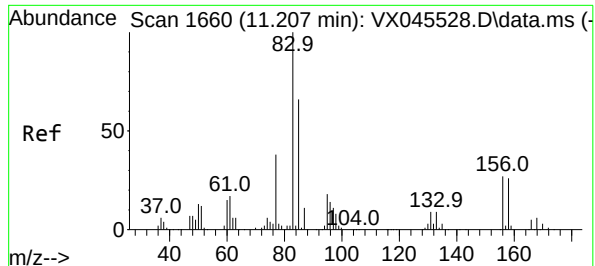
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#74
N-ethyl acetate
Concen: 20.466 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 43 Resp: 51238
Ion Ratio Lower Upper
43 100
70 38.1 30.1 45.1
55 22.5 18.3 27.5
61 22.1 17.5 26.3





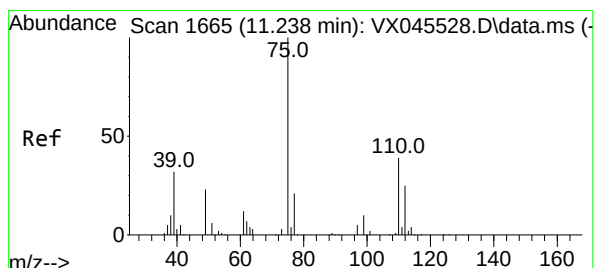
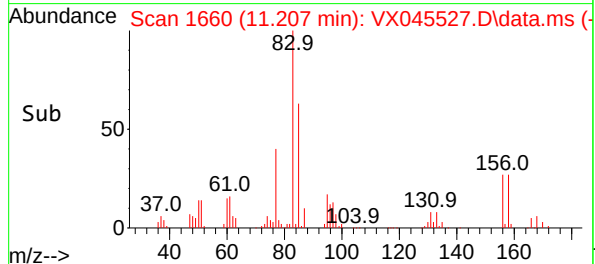
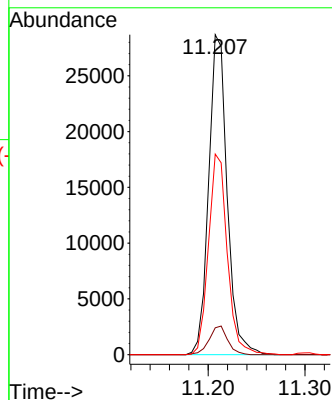
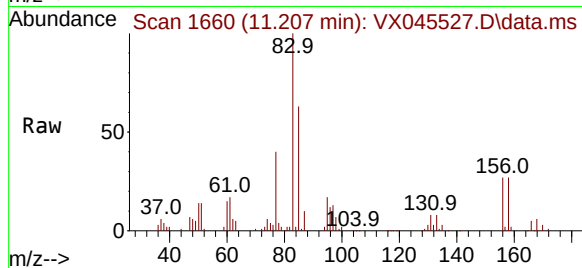
#75
1,1,2,2-Tetrachloroethane
Concen: 20.764 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 83 Resp: 3817
Ion Ratio Lower Upper
83 100
131 9.0 4.7 14.1
85 63.7 32.4 97.2

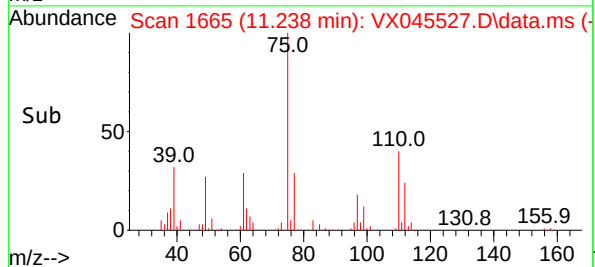
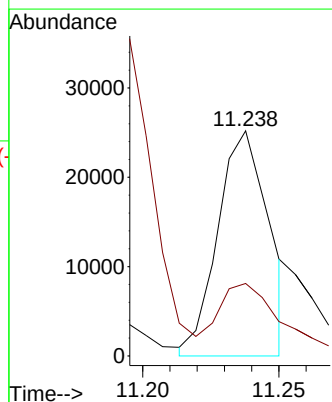
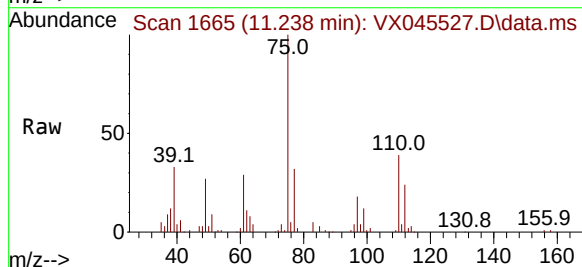
Manual Integrations
APPROVED

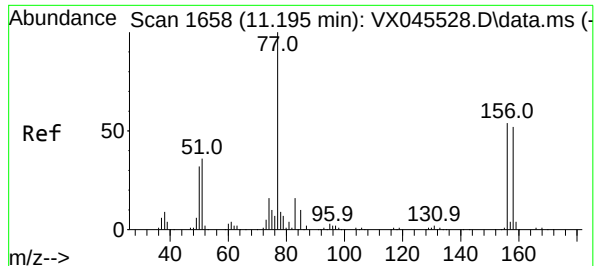
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#76
1,2,3-Trichloropropane
Concen: 20.510 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

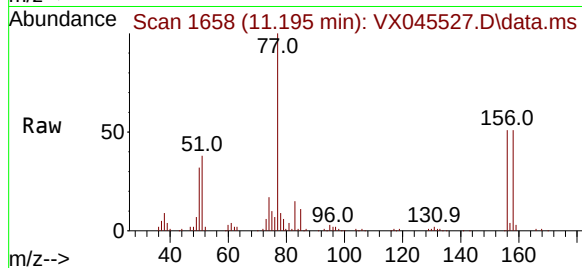
Tgt Ion: 75 Resp: 32690
Ion Ratio Lower Upper
75 100
77 41.2 20.0 59.9





#77
Bromobenzene
Concen: 20.592 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

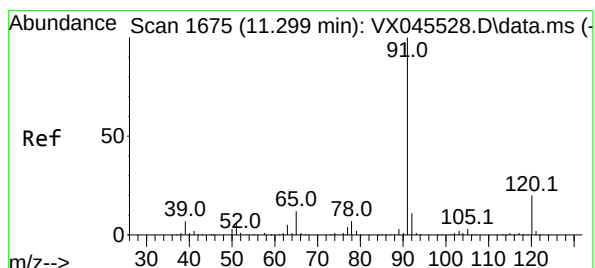
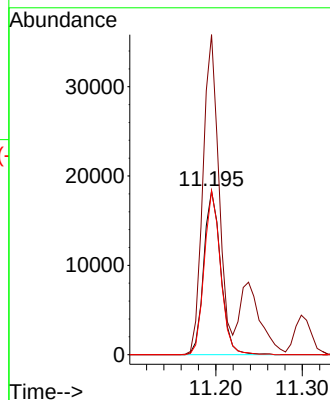
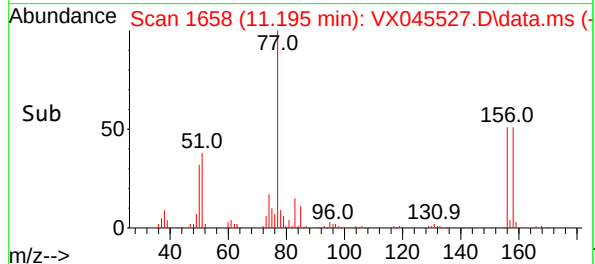
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:156 Resp: 2490
Ion Ratio Lower Upper
156 100
77 185.0 92.6 277.8
158 96.7 48.1 144.4

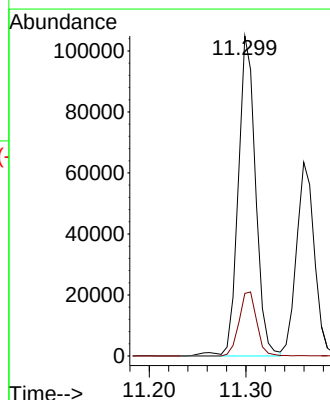
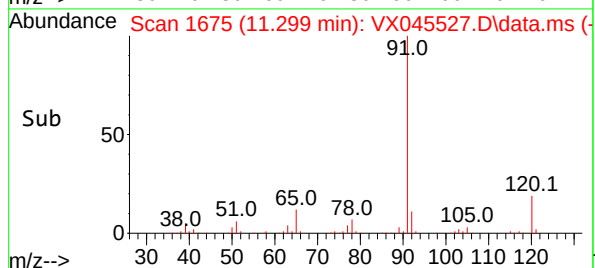
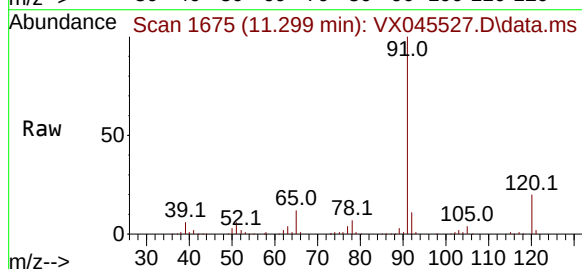
Manual Integrations
APPROVED

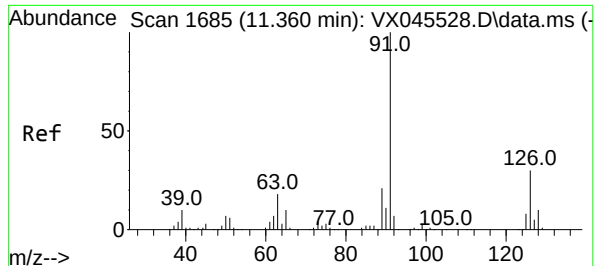
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#78
n-propylbenzene
Concen: 21.729 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 130994
Ion Ratio Lower Upper
91 100
120 20.5 10.8 32.3





#79

2-Chlorotoluene

Concen: 21.229 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 8181

Ion Ratio Lower Upper

91 100

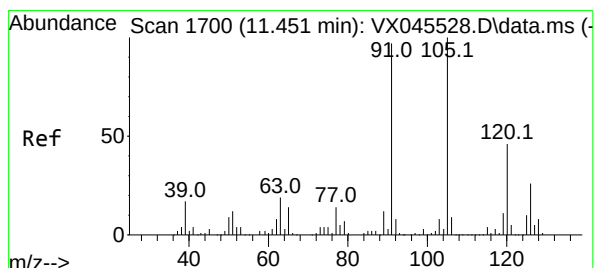
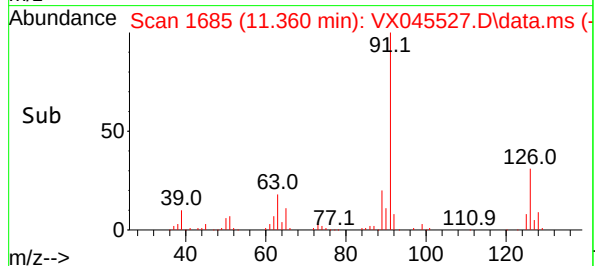
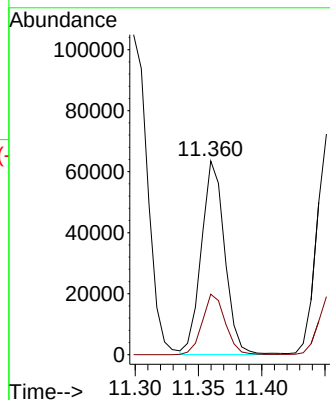
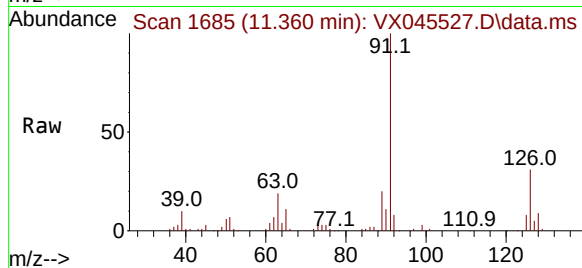
126 30.9 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.564 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045527.D

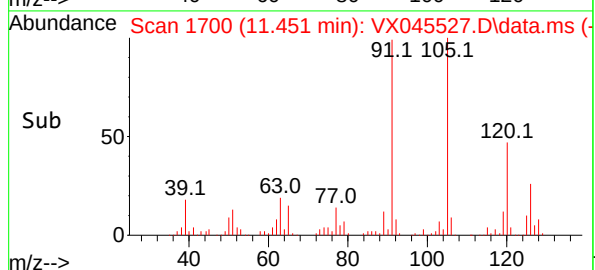
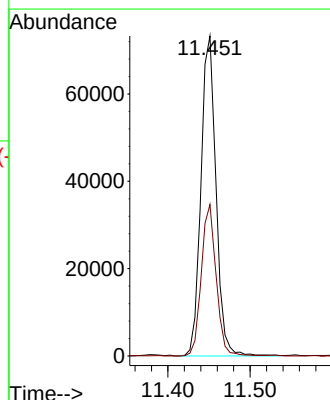
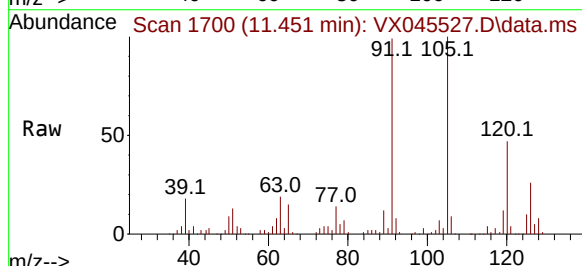
Acq: 01 Apr 2025 17:52

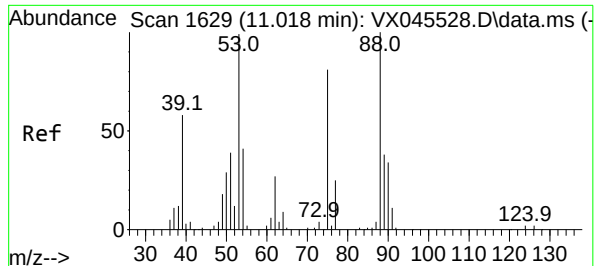
Tgt Ion:105 Resp: 93328

Ion Ratio Lower Upper

105 100

120 46.5 23.0 69.0





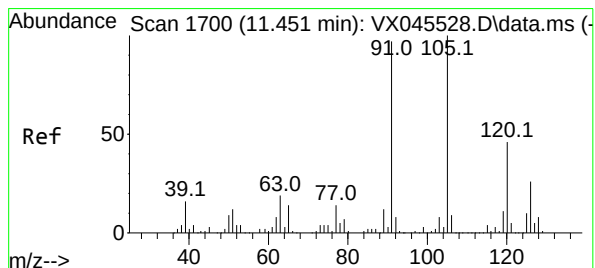
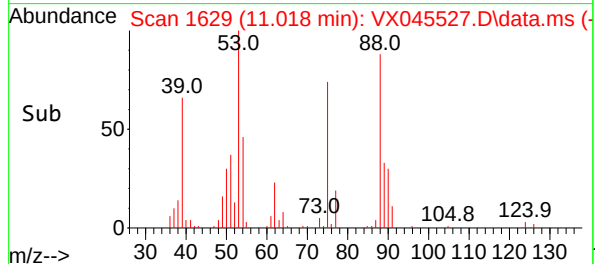
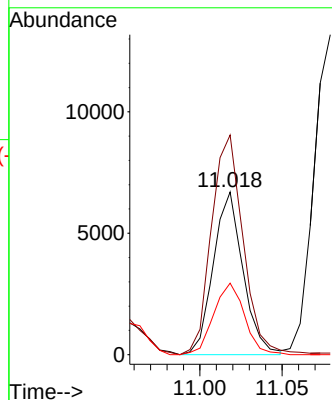
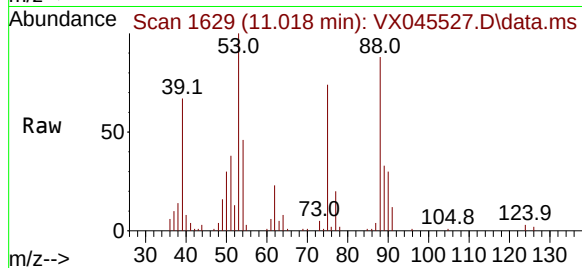
#81
trans-1,4-Dichloro-2-butene
Concen: 17.961 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 843
Ion Ratio Lower Upper
75 100
53 144.7 101.8 152.6
89 45.5 37.2 55.8

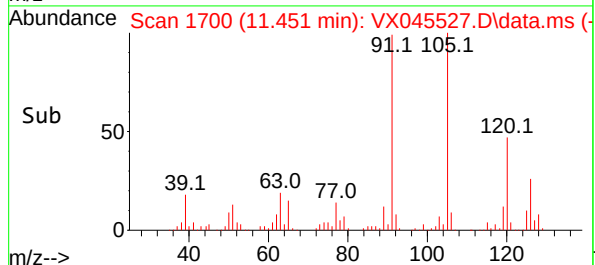
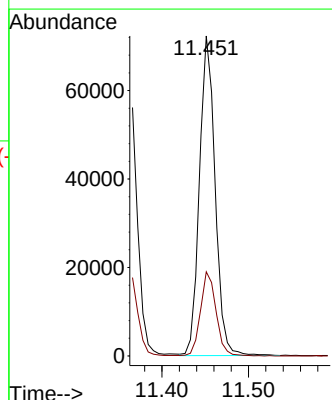
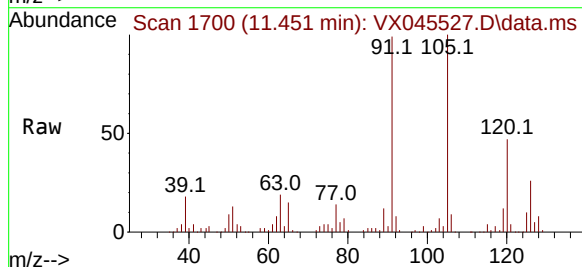
Manual Integrations
APPROVED

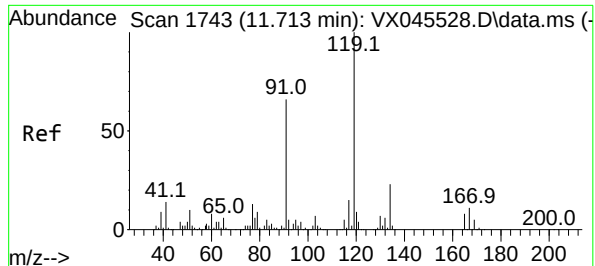
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#82
4-Chlorotoluene
Concen: 21.108 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Tgt Ion: 91 Resp: 90704
Ion Ratio Lower Upper
91 100
126 26.2 13.3 39.9





#83

tert-Butylbenzene

Concen: 20.964 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

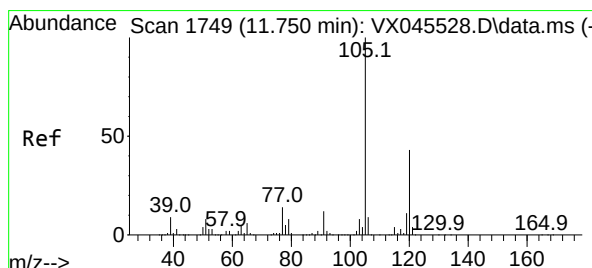
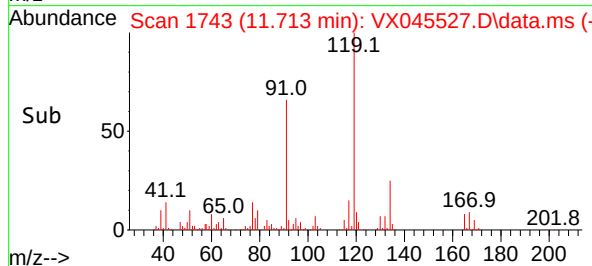
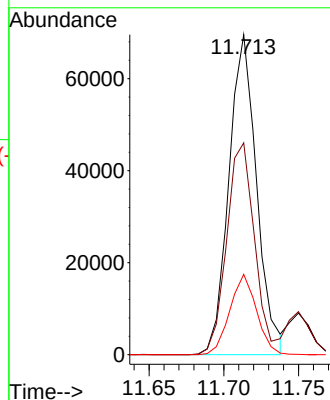
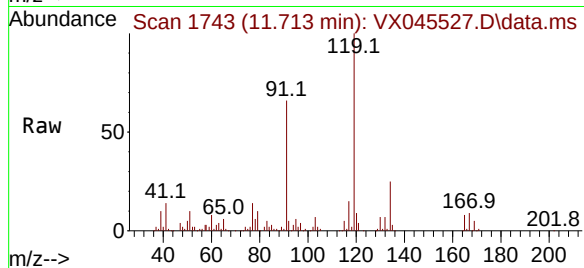
VSTDIC020

Tgt Ion:	119	Resp:	89828
Ion	Ratio	Lower	Upper
119	100		
91	65.7	32.4	97.2
134	24.2	11.5	34.5

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#84

1,2,4-Trimethylbenzene

Concen: 21.235 ug/l

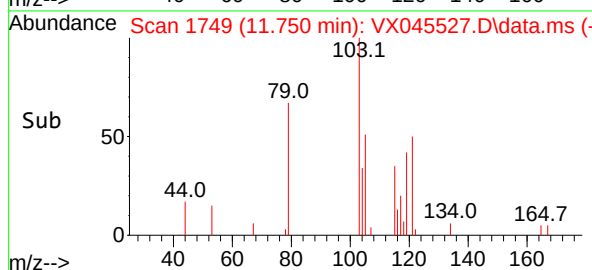
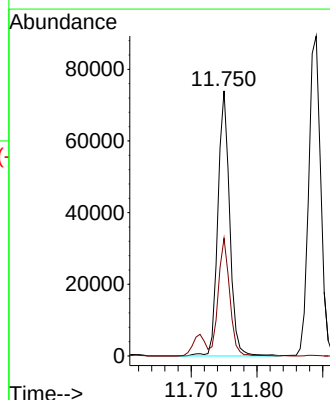
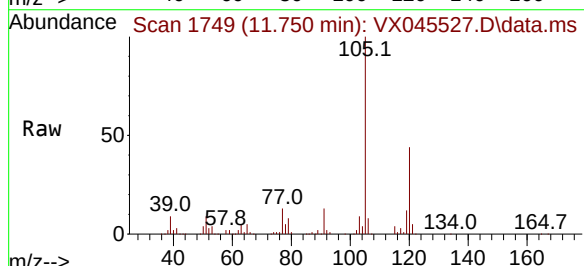
RT: 11.750 min Scan# 1749

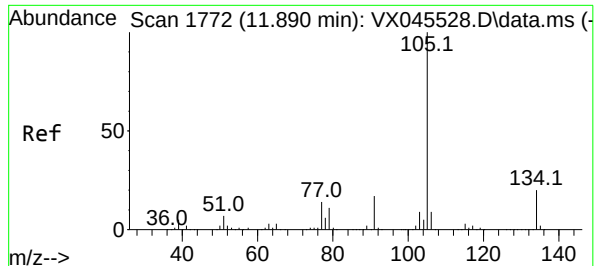
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:	105	Resp:	92242
Ion	Ratio	Lower	Upper
105	100		
120	43.1	21.4	64.3





#85

sec-Butylbenzene

Concen: 21.433 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:105 Resp: 112800

Ion Ratio Lower Upper

105 100

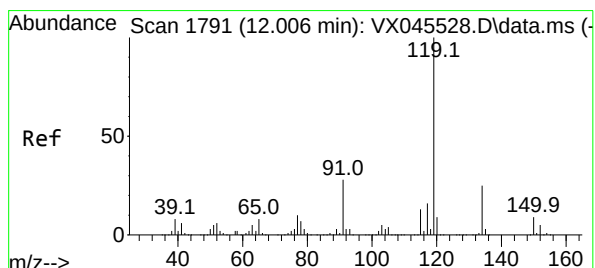
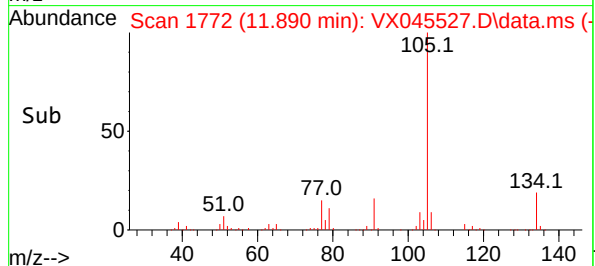
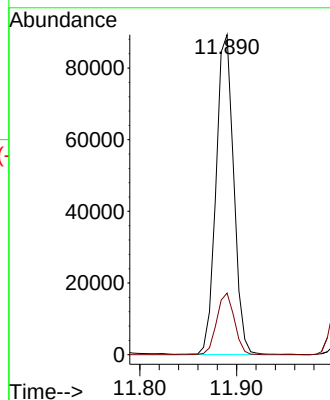
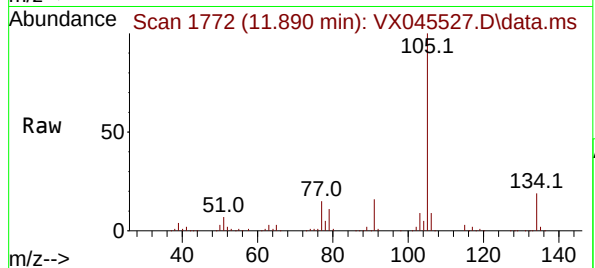
134 19.3 9.6 28.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#86

p-Isopropyltoluene

Concen: 21.173 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

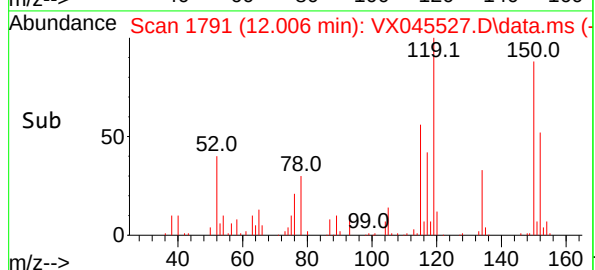
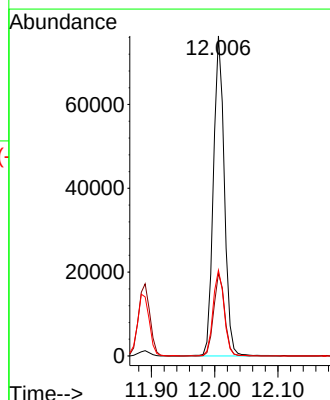
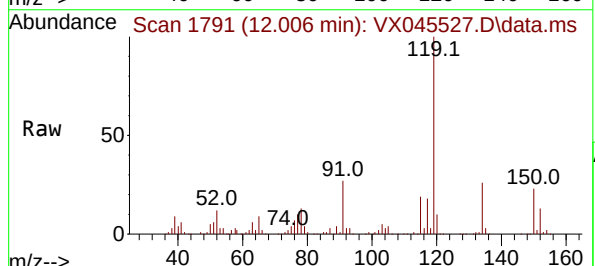
Tgt Ion:119 Resp: 91866

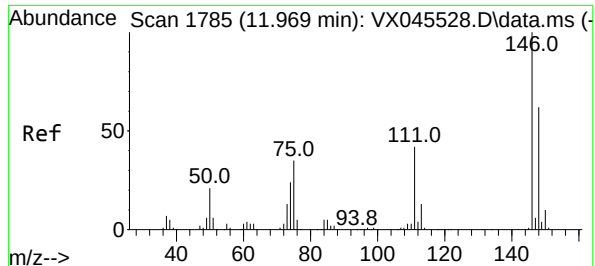
Ion Ratio Lower Upper

119 100

134 25.7 12.6 37.8

91 27.1 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 20.490 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

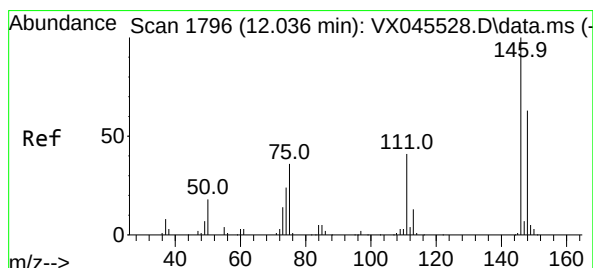
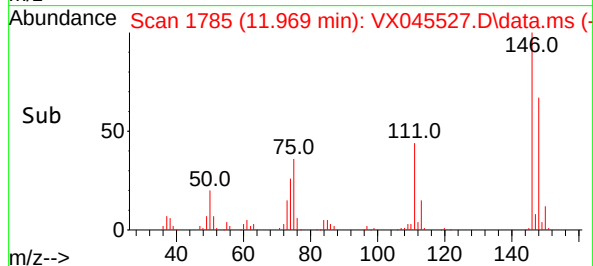
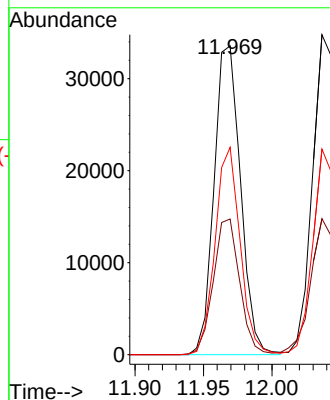
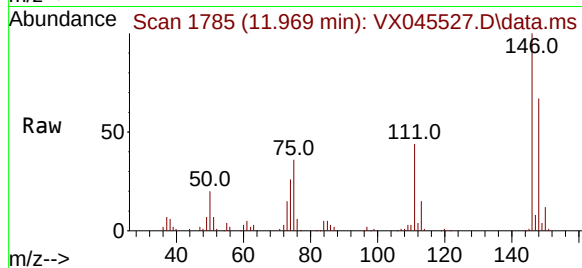
VSTDIC020

Tgt Ion:146 Resp: 45108
Ion Ratio Lower Upper
146 100
111 43.9 22.2 66.6
148 63.6 31.9 95.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 20.706 ug/l

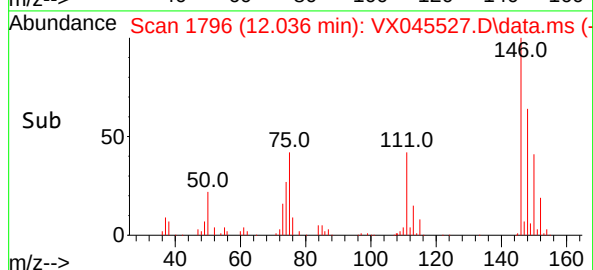
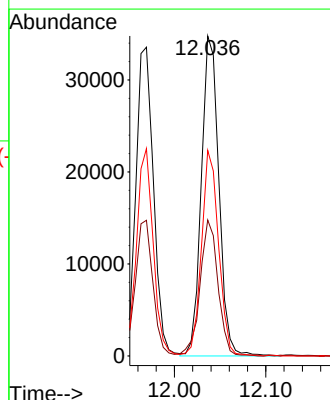
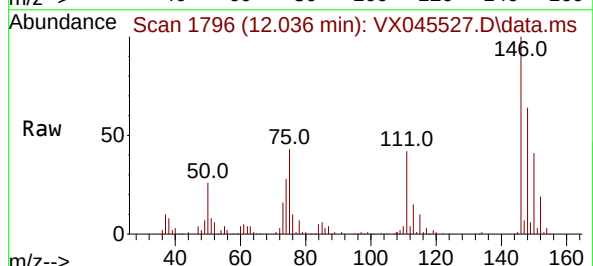
RT: 12.036 min Scan# 1796

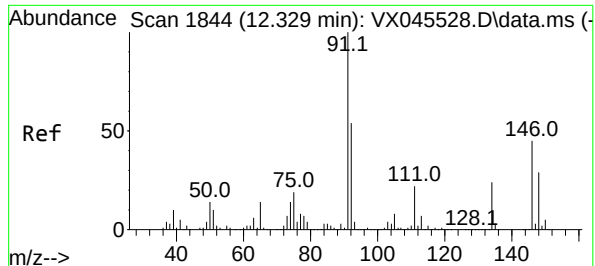
Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Tgt Ion:146 Resp: 46208
Ion Ratio Lower Upper
146 100
111 43.6 20.9 62.8
148 62.6 31.5 94.5





#89

n-Butylbenzene

Concen: 20.662 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045527.D

Acq: 01 Apr 2025 17:52

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 77739

Ion Ratio Lower Upper

91 100

92 53.5 26.9 80.6

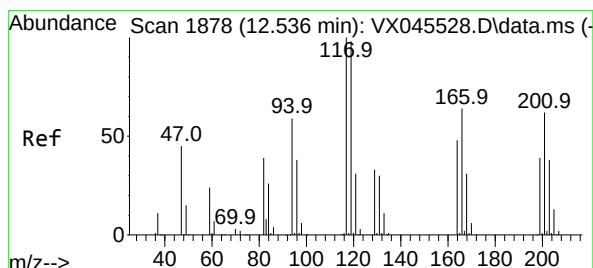
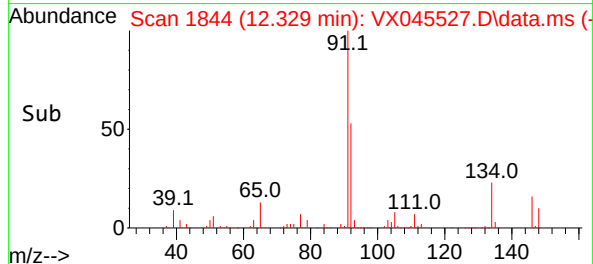
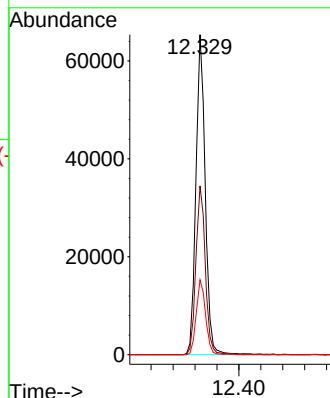
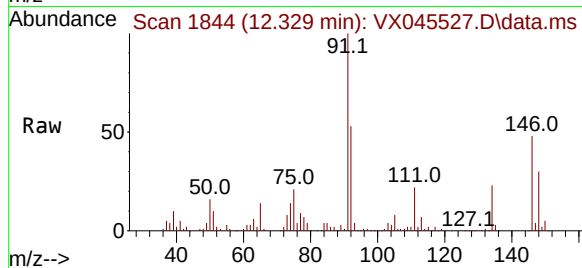
134 23.4 11.9 35.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 19.505 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045527.D

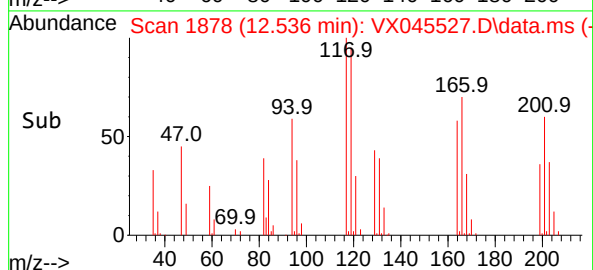
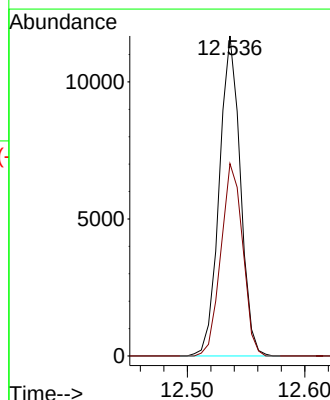
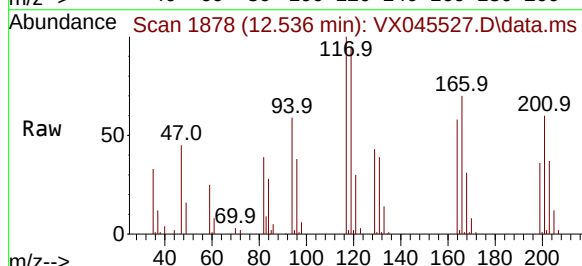
Acq: 01 Apr 2025 17:52

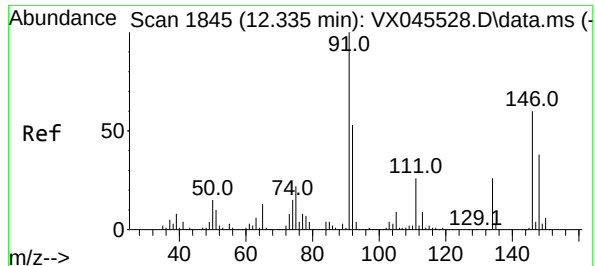
Tgt Ion:117 Resp: 14544

Ion Ratio Lower Upper

117 100

201 62.2 31.2 93.6





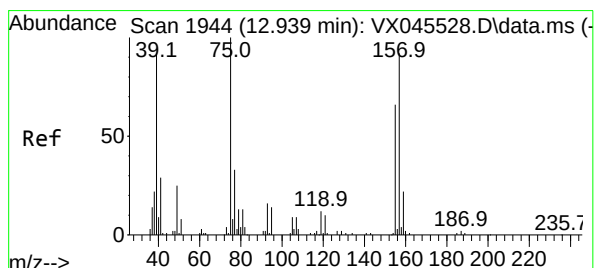
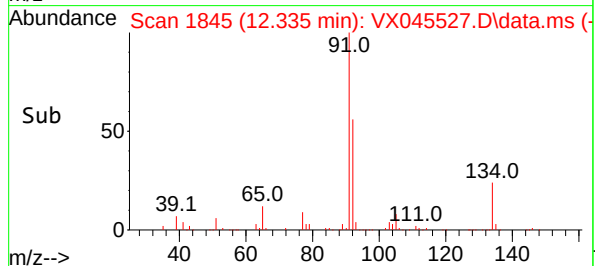
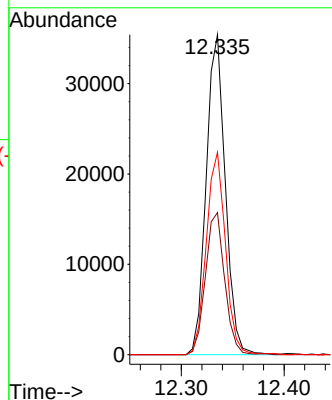
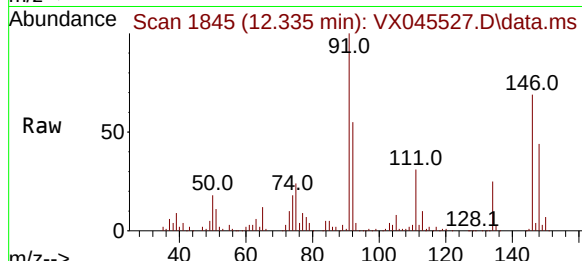
#91
1,2-Dichlorobenzene
Concen: 20.896 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:146 Resp: 4573
Ion Ratio Lower Upper
146 100
111 45.0 22.9 68.8
148 63.6 31.9 95.5

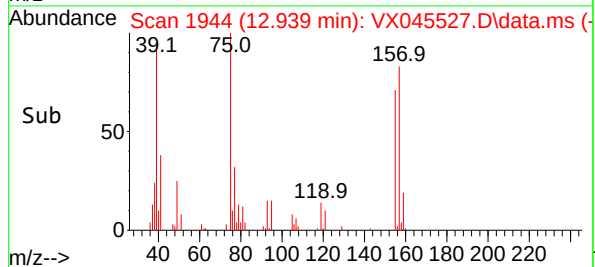
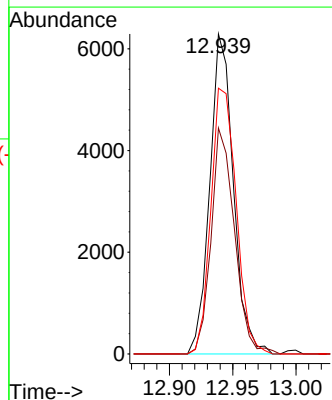
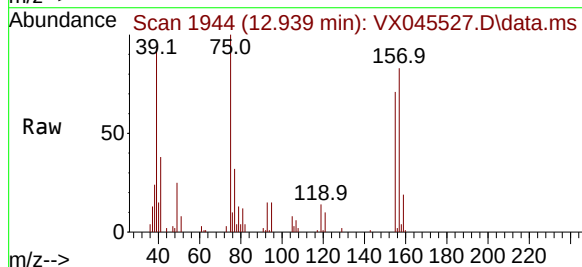
Manual Integrations
APPROVED

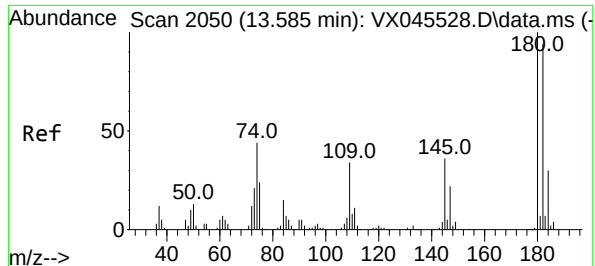
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 21.203 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

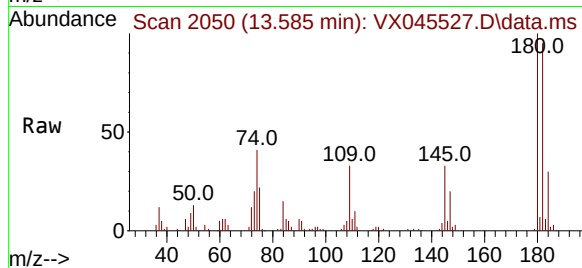
Tgt Ion: 75 Resp: 8153
Ion Ratio Lower Upper
75 100
155 70.0 34.9 104.7
157 89.1 44.9 134.7





#93
1,2,4-Trichlorobenzene
Concen: 20.347 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

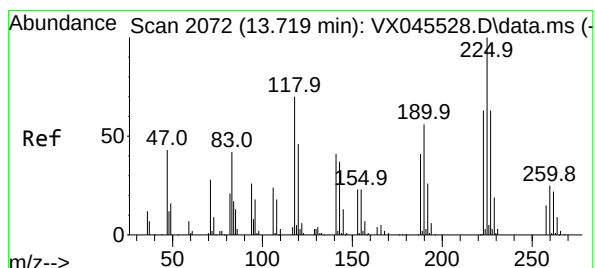
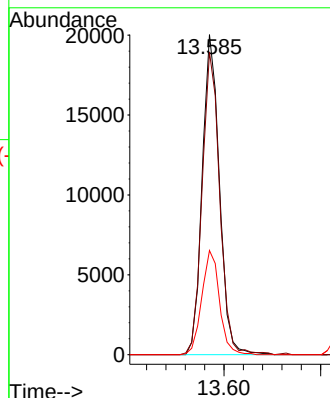
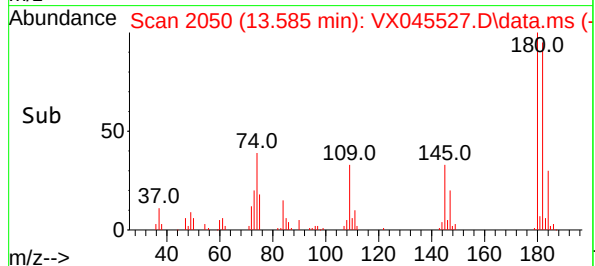
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



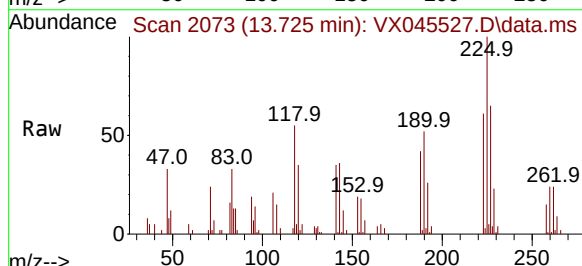
Tgt Ion:180 Resp: 2478
Ion Ratio Lower Upper
180 100
182 96.6 47.9 143.6
145 33.6 17.9 53.8

Manual Integrations
APPROVED

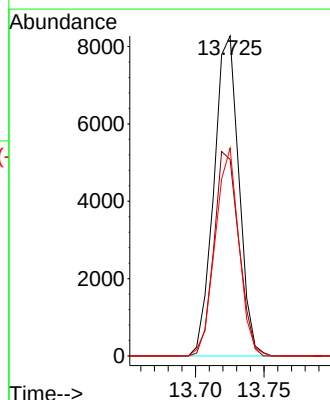
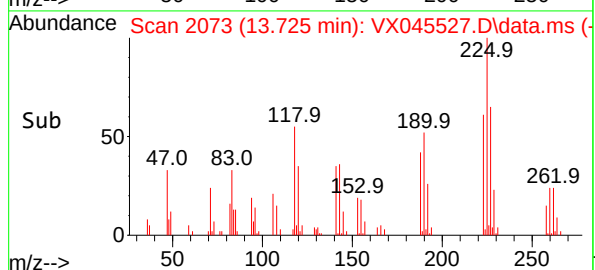
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

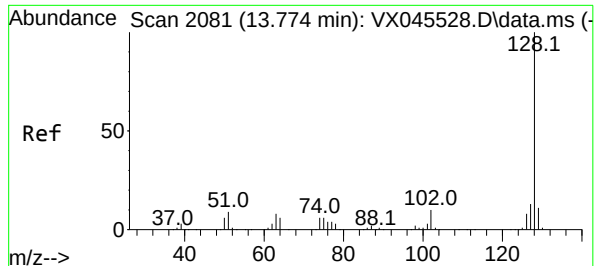


#94
Hexachlorobutadiene
Concen: 19.979 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52



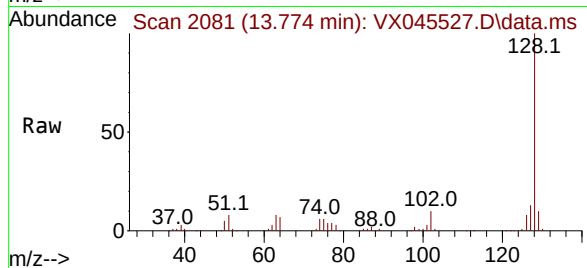
Tgt Ion:225 Resp: 10488
Ion Ratio Lower Upper
225 100
223 63.6 31.1 93.3
227 61.6 32.2 96.6





#95
Naphthalene
Concen: 20.928 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52

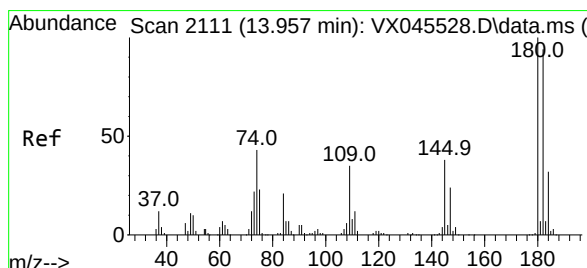
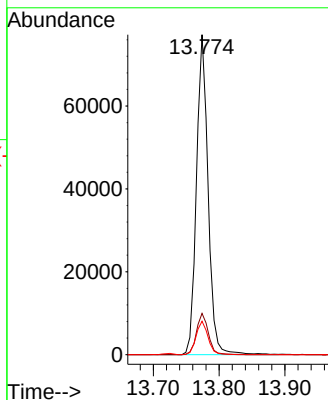
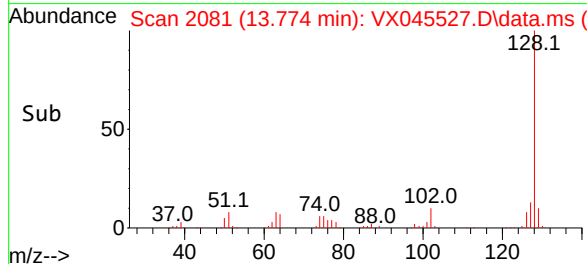
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



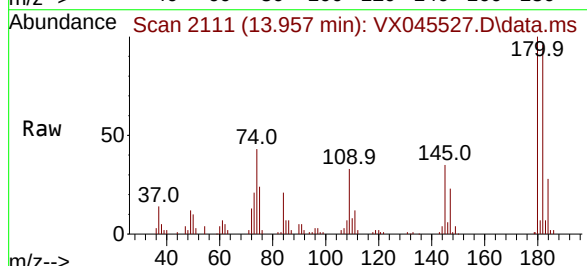
Tgt Ion:128 Resp: 94875
Ion Ratio Lower Upper
128 100
127 13.2 10.3 15.5
129 10.7 8.6 12.8

Manual Integrations
APPROVED

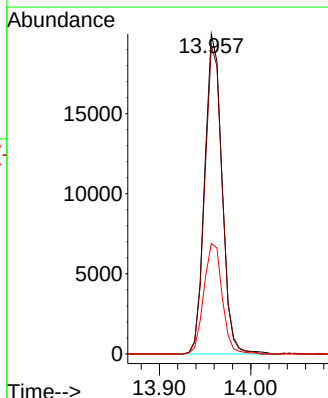
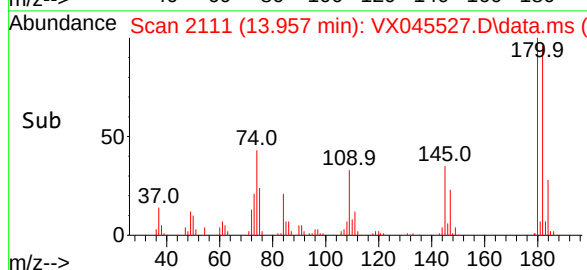
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.471 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045527.D
Acq: 01 Apr 2025 17:52



Tgt Ion:180 Resp: 26113
Ion Ratio Lower Upper
180 100
182 97.4 47.3 141.8
145 36.7 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045528.D
 Acq On : 01 Apr 2025 18:15
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	95658	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	168287	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	150201	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	68786	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	83054	47.477	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	94.960%		
35) Dibromofluoromethane	5.379	113	58108	48.667	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	97.340%		
50) Toluene-d8	8.647	98	204338	49.031	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.060%		
62) 4-Bromofluorobenzene	11.079	95	76190	50.190	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.380%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	78444	54.834	ug/l	100
3) Chloromethane	1.307	50	75032	51.054	ug/l	100
4) Vinyl Chloride	1.374	62	68516	50.942	ug/l	100
5) Bromomethane	1.593	94	31584	49.526	ug/l	100
6) Chloroethane	1.666	64	38112	53.409	ug/l	100
7) Trichlorofluoromethane	1.874	101	103888	51.798	ug/l	100
8) Diethyl Ether	2.136	74	33953	50.424	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	59431	50.569	ug/l	100
10) Methyl Iodide	2.447	142	76404	52.121	ug/l	100
11) Tert butyl alcohol	2.977	59	60610	257.809	ug/l	100
12) 1,1-Dichloroethene	2.313	96	57738	50.278	ug/l	100
13) Acrolein	2.239	56	79989	247.074	ug/l	100
14) Allyl chloride	2.660	41	112085	51.441	ug/l	100
15) Acrylonitrile	3.062	53	194445	262.015	ug/l	100
16) Acetone	2.386	43	180563	251.366	ug/l	100
17) Carbon Disulfide	2.508	76	148601	52.393	ug/l	100
18) Methyl Acetate	2.703	43	82000	49.581	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	202582	50.429	ug/l	100
20) Methylene Chloride	2.782	84	67855	50.457	ug/l	100
21) trans-1,2-Dichloroethene	3.087	96	59696	50.882	ug/l	100
22) Diisopropyl ether	3.764	45	219374	51.111	ug/l	100
23) Vinyl Acetate	3.721	43	998064	269.139	ug/l	100
24) 1,1-Dichloroethane	3.605	63	121348	49.992	ug/l	100
25) 2-Butanone	4.556	43	280076	266.363	ug/l	100
26) 2,2-Dichloropropane	4.471	77	81054	51.683	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71871	50.282	ug/l	100
28) Bromochloromethane	4.897	49	57046	48.632	ug/l	100
29) Tetrahydrofuran	5.001	42	177402	260.230	ug/l	100
30) Chloroform	5.086	83	125797	50.366	ug/l	100
31) Cyclohexane	5.464	56	107407	50.052	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	106062	50.184	ug/l	100
36) 1,1-Dichloropropene	5.684	75	81607	50.620	ug/l	100
37) Ethyl Acetate	4.715	43	104896	51.632	ug/l	100
38) Carbon Tetrachloride	5.672	117	90247	51.797	ug/l	100
39) Methylcyclohexane	7.373	83	104678	52.970	ug/l	100
40) Benzene	6.031	78	249161	50.605	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045528.D
 Acq On : 01 Apr 2025 18:15
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Quant Time: Apr 02 02:53:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	59068	54.623	ug/l	100
42) 1,2-Dichloroethane	6.080	62	104601	51.437	ug/l	100
43) Isopropyl Acetate	6.336	43	164588	53.452	ug/l	100
44) Trichloroethene	7.123	130	59042	50.452	ug/l	100
45) 1,2-Dichloropropane	7.427	63	63316	51.540	ug/l	100
46) Dibromomethane	7.574	93	49125	52.092	ug/l	100
47) Bromodichloromethane	7.818	83	96176	51.068	ug/l	100
48) Methyl methacrylate	7.690	41	85483	53.768	ug/l	100
49) 1,4-Dioxane	7.659	88	31199	1084.635	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	558029	273.375	ug/l	100
52) Toluene	8.714	92	153143	51.402	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	85462	47.317	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	95524	53.975	ug/l	100
55) 1,1,2-Trichloroethane	9.147	97	60452	50.919	ug/l	100
56) Ethyl methacrylate	9.116	69	100998	54.970	ug/l	100
57) 1,3-Dichloropropane	9.305	76	106580	51.554	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	250428	269.434	ug/l	100
59) 2-Hexanone	9.427	43	413824	273.765	ug/l	100
60) Dibromochloromethane	9.519	129	69258	53.511	ug/l	100
61) 1,2-Dibromoethane	9.604	107	62812	52.264	ug/l	100
64) Tetrachloroethene	9.269	164	52155	49.181	ug/l	100
65) Chlorobenzene	10.073	112	162829	50.733	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	55974	50.233	ug/l	100
67) Ethyl Benzene	10.189	91	301481	52.447	ug/l	100
68) m/p-Xylenes	10.299	106	218702	104.606	ug/l	100
69) o-Xylene	10.640	106	108028	52.452	ug/l	100
70) Styrene	10.653	104	182620	53.723	ug/l	100
71) Bromoform	10.799	173	44397	53.361	ug/l #	100
73) Isopropylbenzene	10.957	105	287628	52.203	ug/l	100
74) N-amyl acetate	10.842	43	141589	53.721	ug/l	100
75) 1,1,2,2-Tetrachloroethane	11.207	83	95200	49.185	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	84279m	50.230	ug/l	
77) Bromobenzene	11.195	156	64527	50.686	ug/l	100
78) n-propylbenzene	11.299	91	336796	53.069	ug/l	100
79) 2-Chlorotoluene	11.360	91	203994	50.279	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	241536	53.013	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	25488	51.556	ug/l	100
82) 4-Chlorotoluene	11.451	91	237213	52.439	ug/l	100
83) tert-Butylbenzene	11.713	119	235715	52.256	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	242301	52.986	ug/l	100
85) sec-Butylbenzene	11.890	105	295799	53.391	ug/l	100
86) p-Isopropyltoluene	12.006	119	242416	53.073	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	116890	50.441	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	117164	49.871	ug/l	100
89) n-Butylbenzene	12.329	91	217345	54.874	ug/l	100
90) Hexachloroethane	12.536	117	41095	52.352	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	115426	50.099	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21712	53.638	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	65145	50.797	ug/l	100
94) Hexachlorobutadiene	13.719	225	27795	50.296	ug/l	100
95) Naphthalene	13.774	128	256009	53.643	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	68781	51.219	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045528.D
Acq On : 01 Apr 2025 18:15
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:53:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

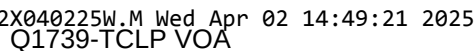
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

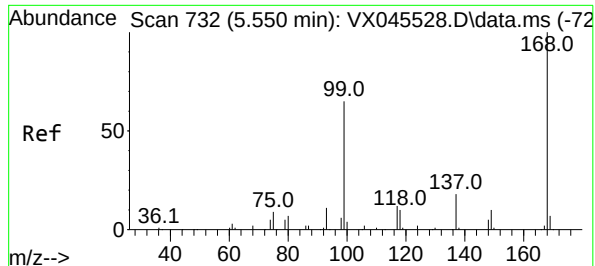
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025





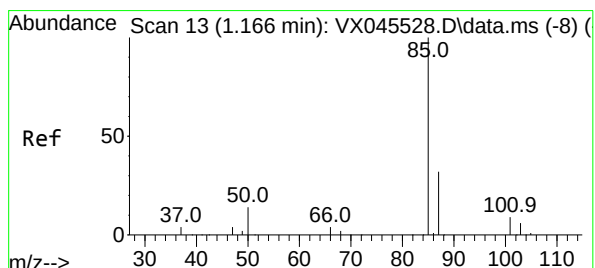
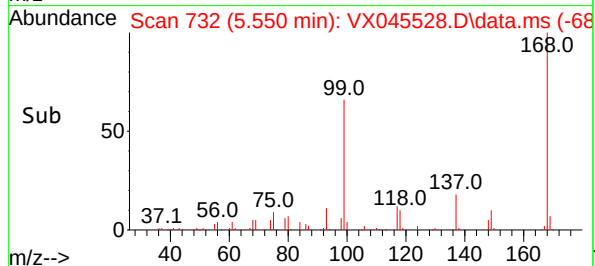
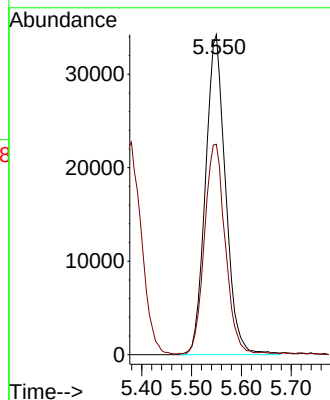
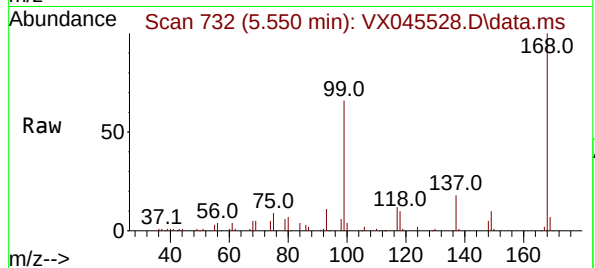
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:168 Resp: 95658
Ion Ratio Lower Upper
168 100
99 65.4 52.3 78.5

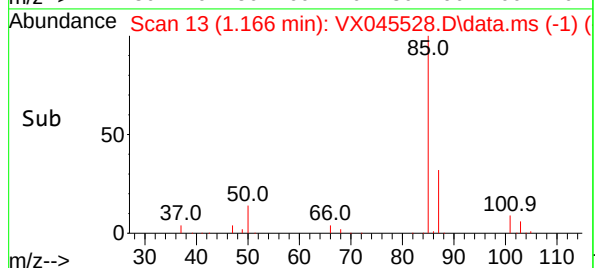
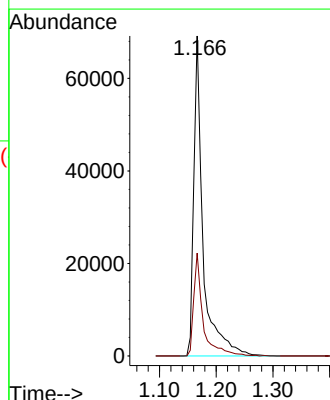
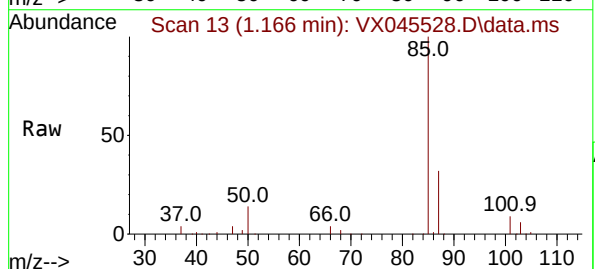
Manual Integrations
APPROVED

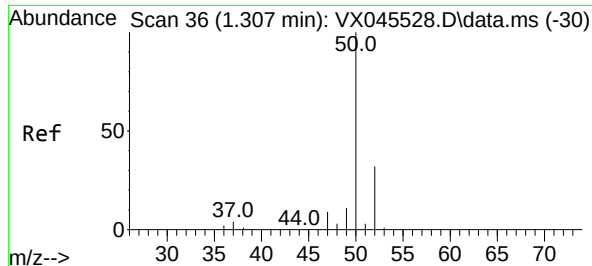
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 54.834 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 85 Resp: 78444
Ion Ratio Lower Upper
85 100
87 32.1 16.1 48.2





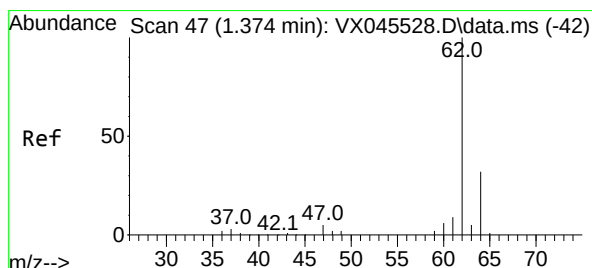
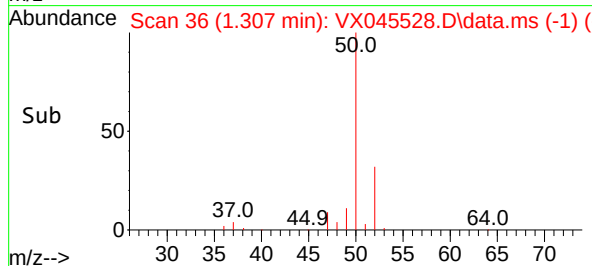
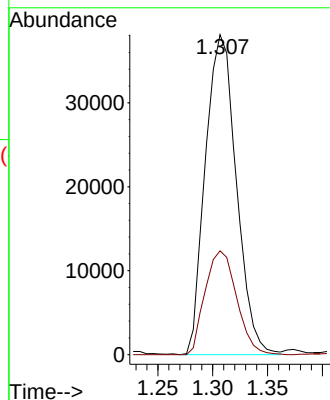
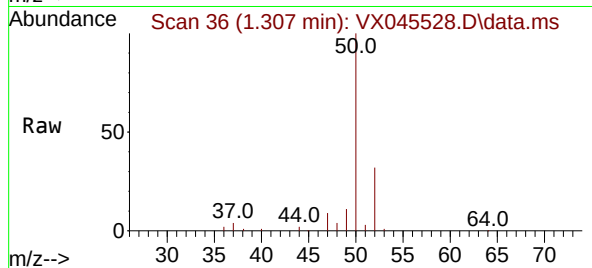
#3
Chloromethane
Concen: 51.054 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 50 Resp: 75032
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

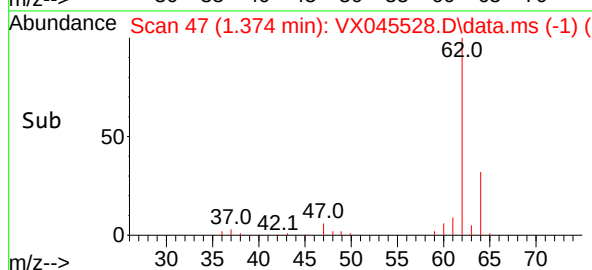
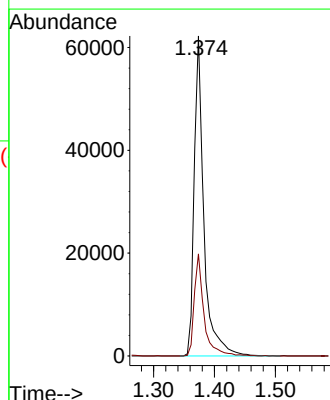
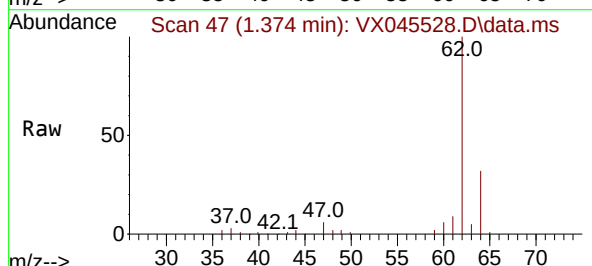
Manual Integrations
APPROVED

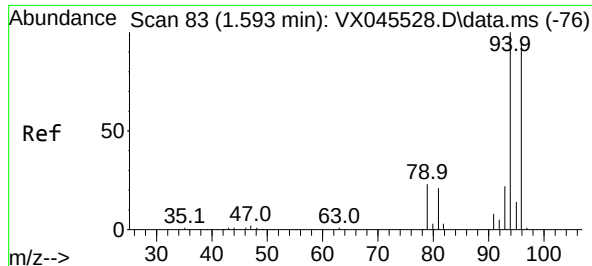
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 50.942 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 62 Resp: 68516
Ion Ratio Lower Upper
62 100
64 31.9 25.5 38.3





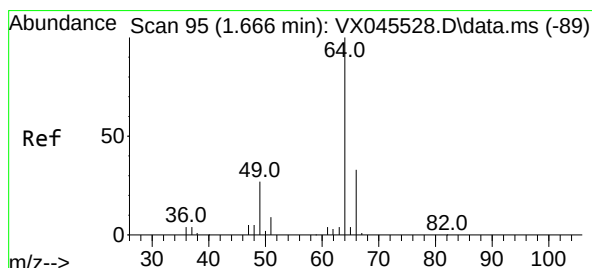
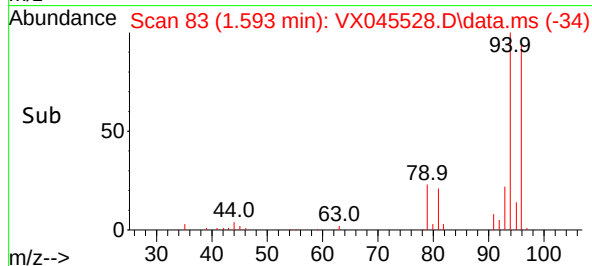
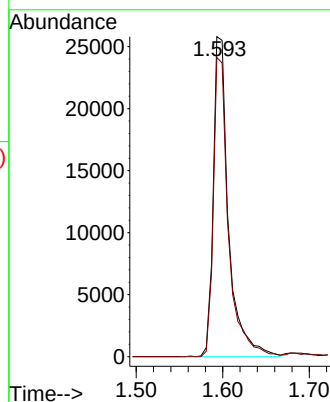
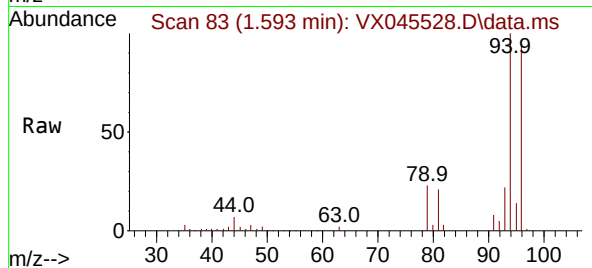
#5
Bromomethane
Concen: 49.526 ug/l
RT: 1.593 min Scan# 83
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 31584
Ion Ratio Lower Upper
94 100
96 93.5 74.8 112.2

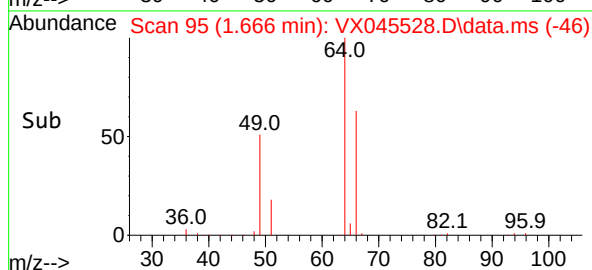
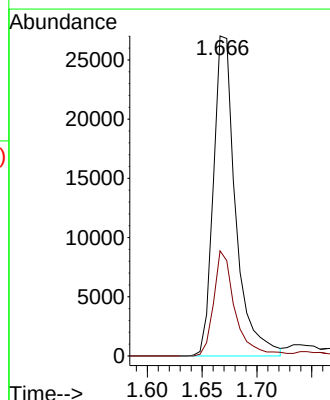
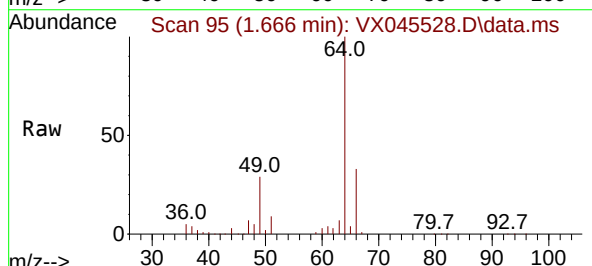
Manual Integrations
APPROVED

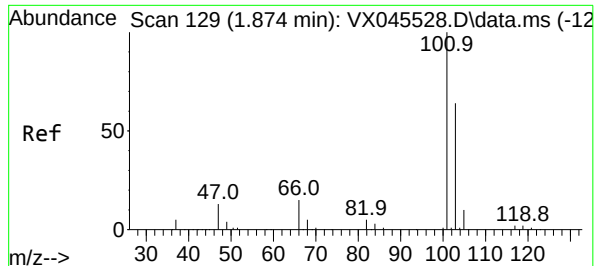
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#6
Chloroethane
Concen: 53.409 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 64 Resp: 38112
Ion Ratio Lower Upper
64 100
66 32.9 26.3 39.5





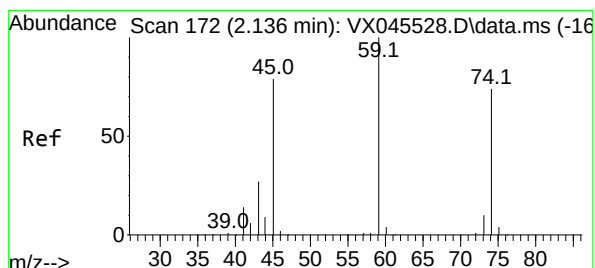
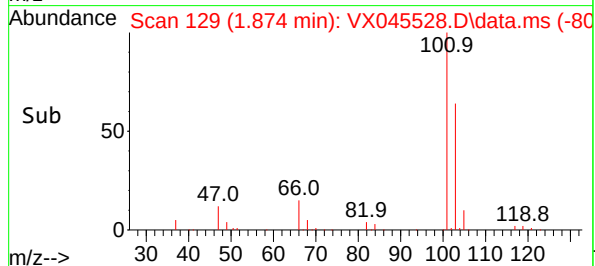
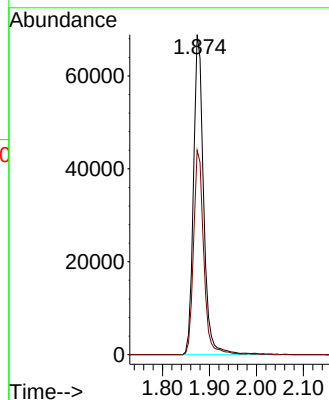
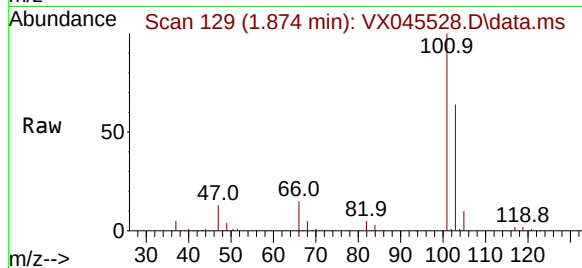
#7
Trichlorofluoromethane
Concen: 51.798 ug/l
RT: 1.874 min Scan# 101
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 10388
Ion Ratio Lower Upper
101 100
103 63.9 51.1 76.7

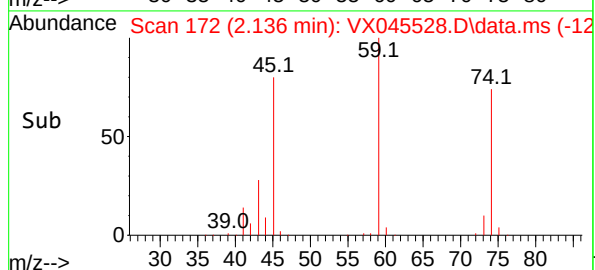
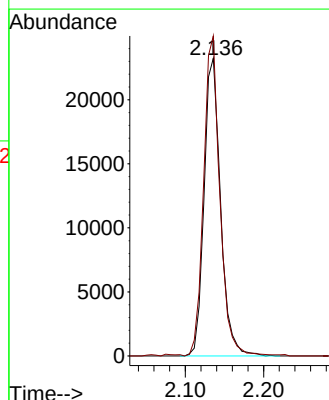
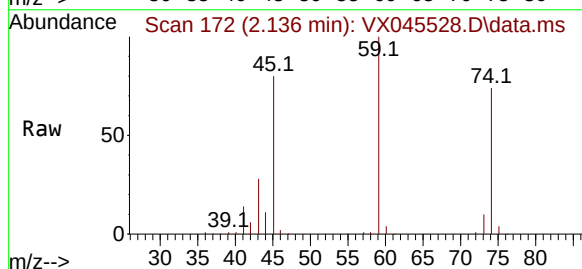
Manual Integrations
APPROVED

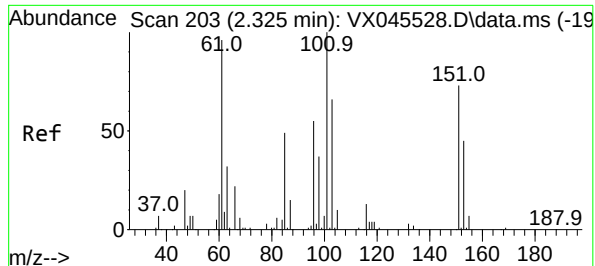
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#8
Diethyl Ether
Concen: 50.424 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 74 Resp: 33953
Ion Ratio Lower Upper
74 100
45 106.1 53.0 159.1





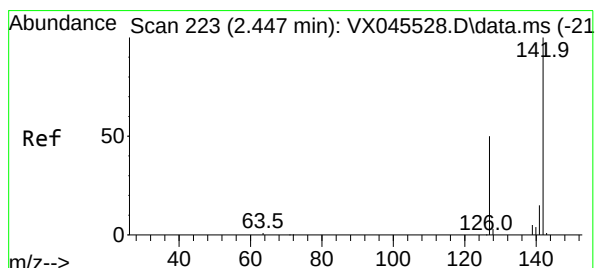
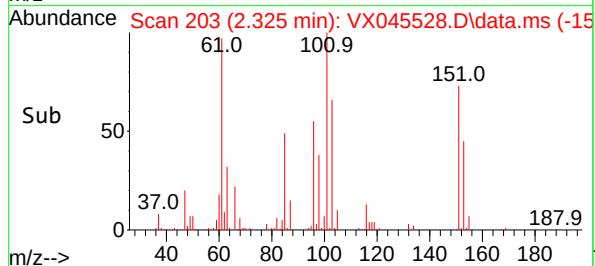
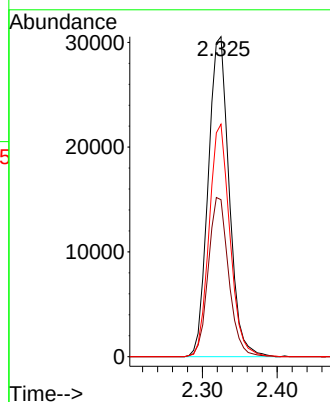
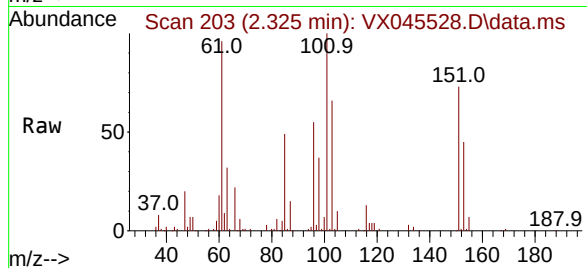
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.569 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:101 Resp: 5943
Ion Ratio Lower Upper
101 100
85 48.6 38.9 58.3
151 71.9 57.5 86.3

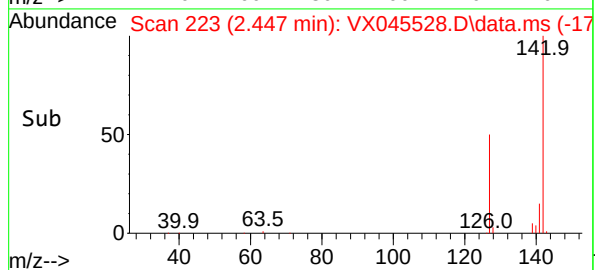
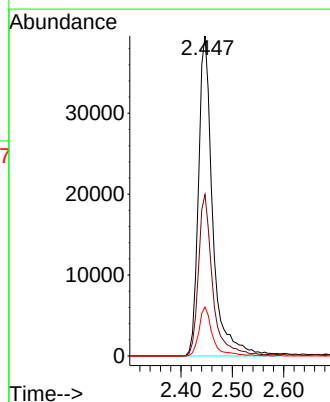
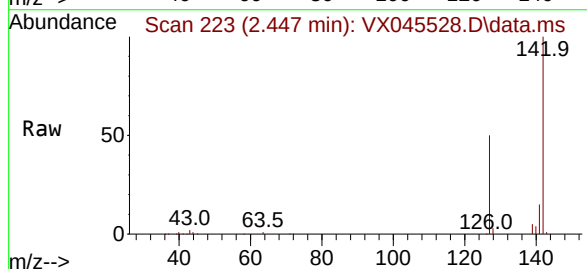
Manual Integrations
APPROVED

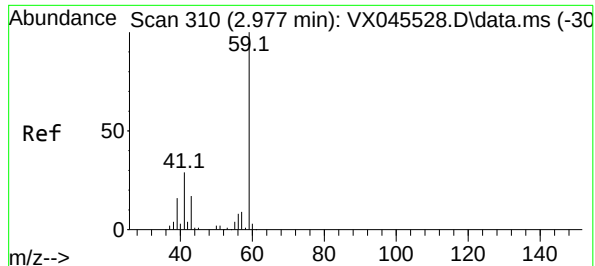
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#10
Methyl Iodide
Concen: 52.121 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:142 Resp: 76404
Ion Ratio Lower Upper
142 100
127 50.3 40.2 60.4
141 14.6 11.7 17.5





#11

Tert butyl alcohol

Concen: 257.809 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 60610

Ion Ratio Lower Upper

59 100

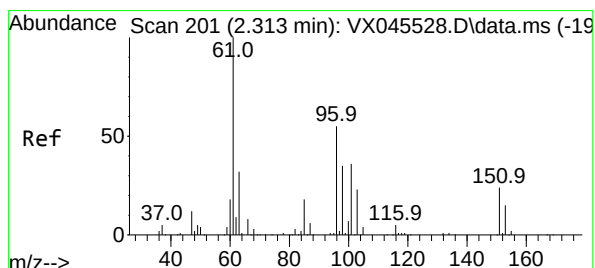
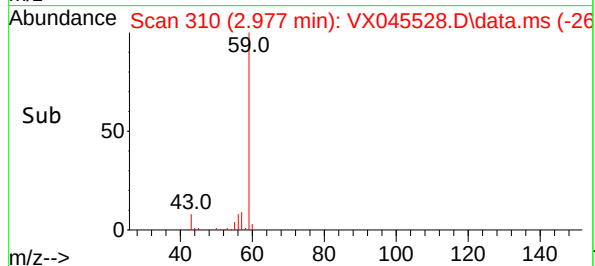
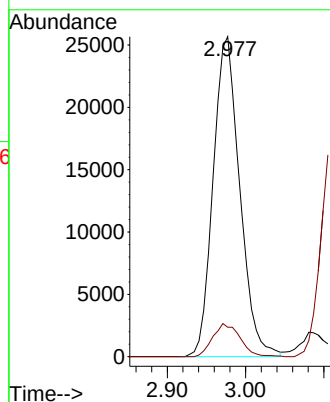
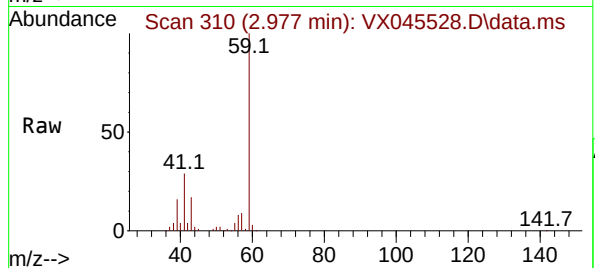
57 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#12

1,1-Dichloroethene

Concen: 50.278 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

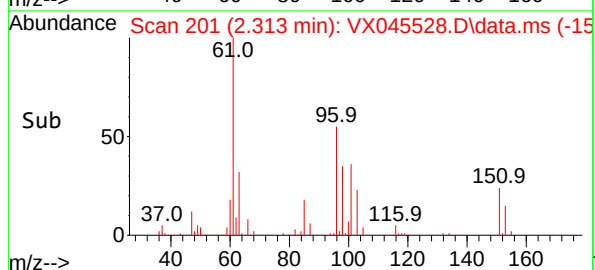
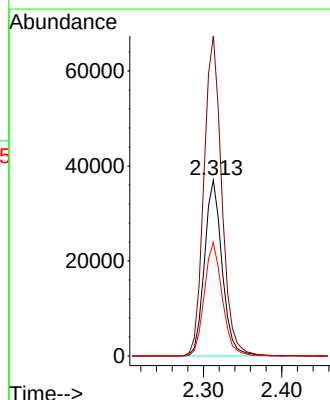
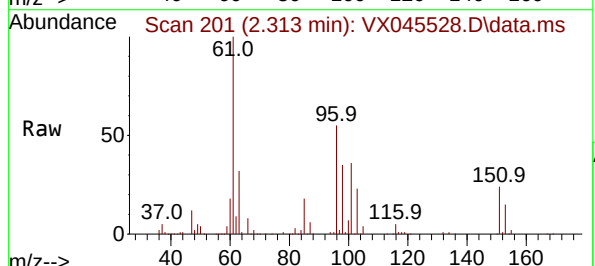
Tgt Ion: 96 Resp: 57738

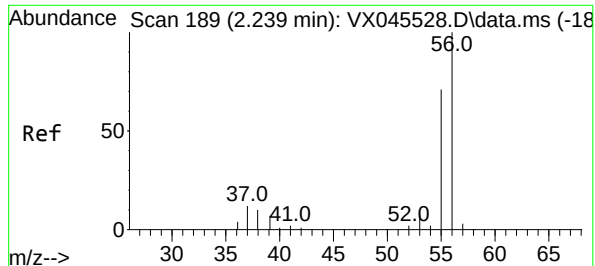
Ion Ratio Lower Upper

96 100

61 182.1 145.7 218.5

98 64.5 51.6 77.4





#13

Acrolein

Concen: 247.074 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 79985

Ion Ratio Lower Upper

56 100

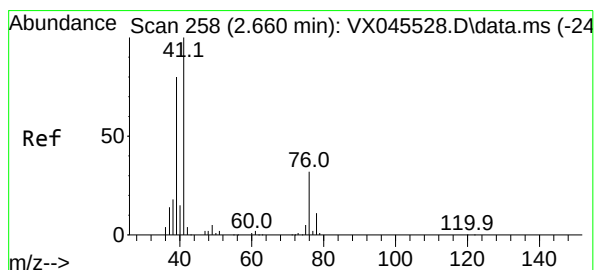
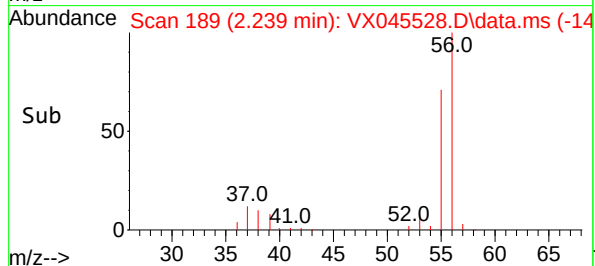
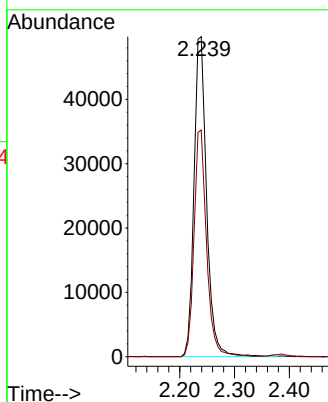
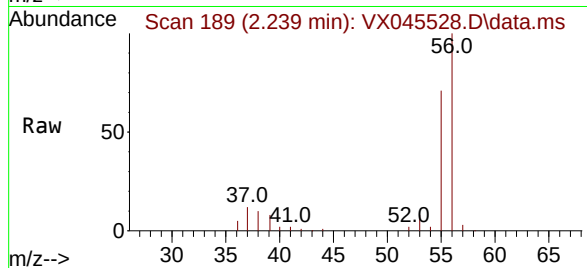
55 70.2 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#14

Allyl chloride

Concen: 51.441 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

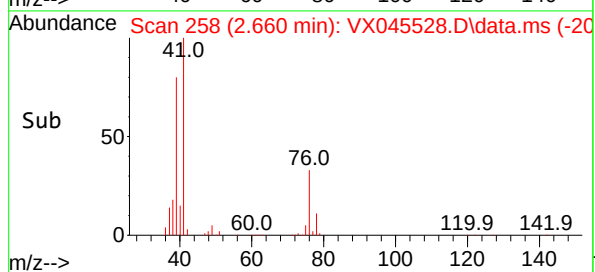
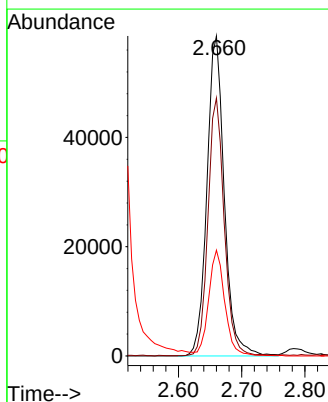
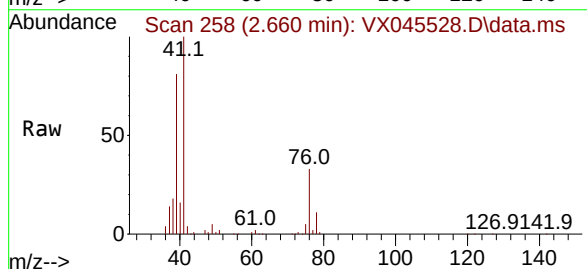
Tgt Ion: 41 Resp: 112085

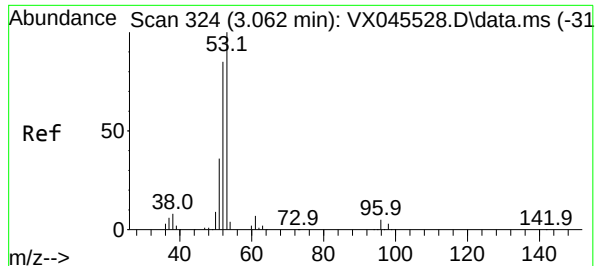
Ion Ratio Lower Upper

41 100

39 75.2 60.2 90.2

76 30.7 24.6 36.8





#15

Acrylonitrile

Concen: 262.015 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

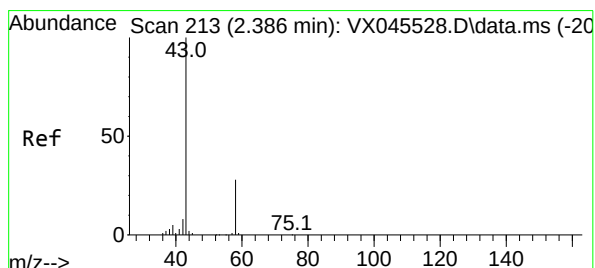
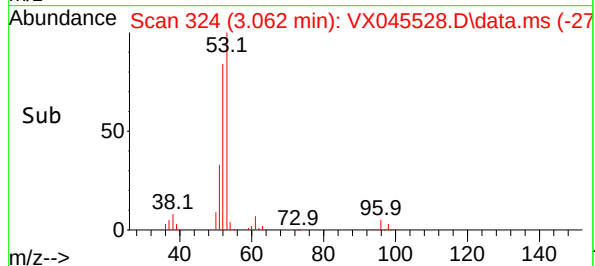
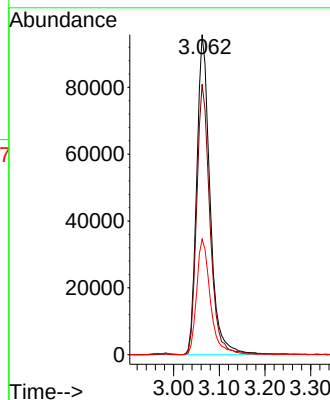
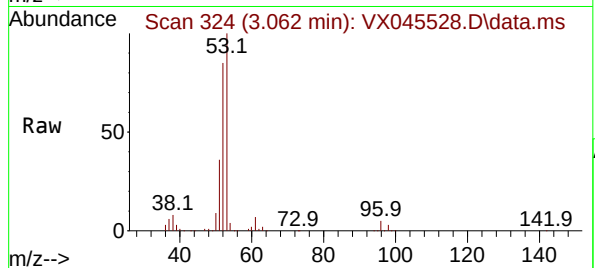
VSTDICCC050

Tgt Ion:	53	Resp:	19444
Ion	Ratio	Lower	Upper
53	100		
52	84.3	67.4	101.2
51	37.4	29.9	44.9

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 251.366 ug/l

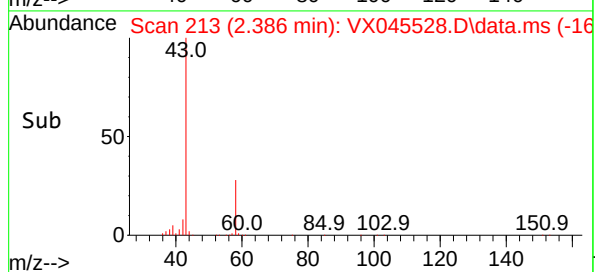
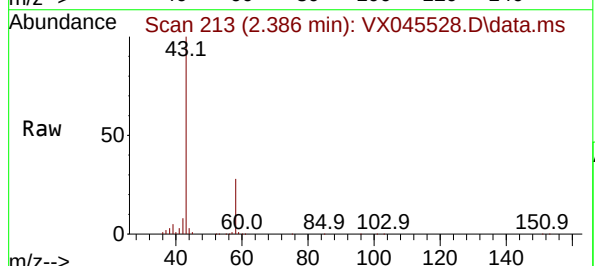
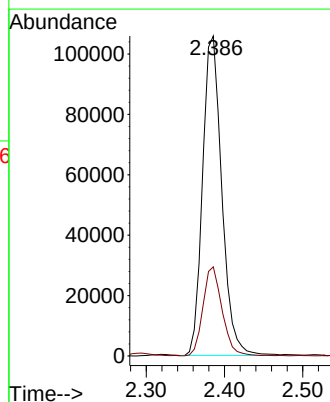
RT: 2.386 min Scan# 213

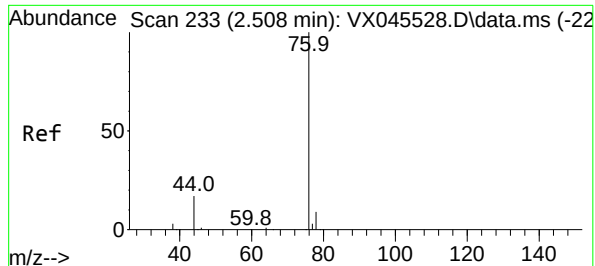
Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion:	43	Resp:	180563
Ion	Ratio	Lower	Upper
43	100		
58	27.9	22.3	33.5





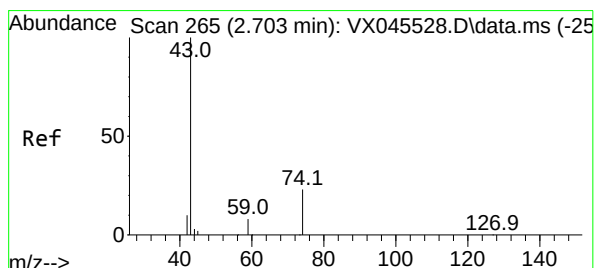
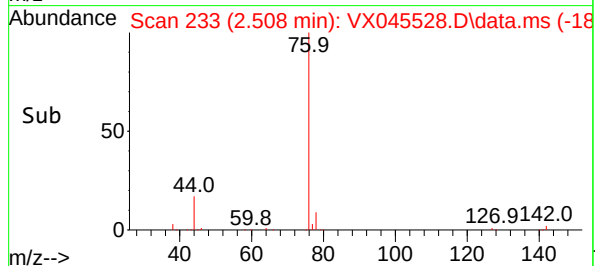
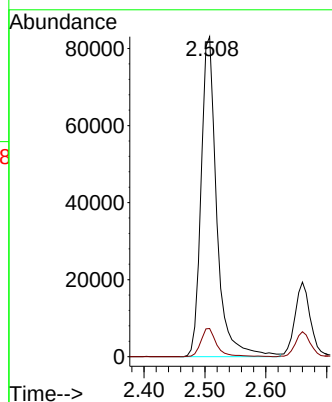
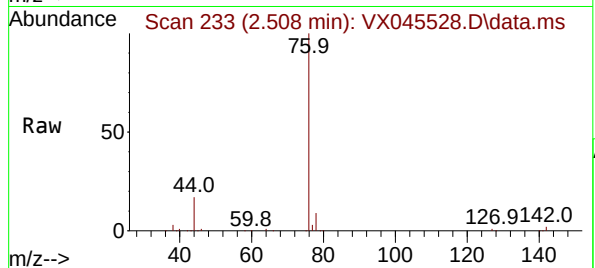
#17
Carbon Disulfide
Concen: 52.393 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 76 Resp: 14860
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.6

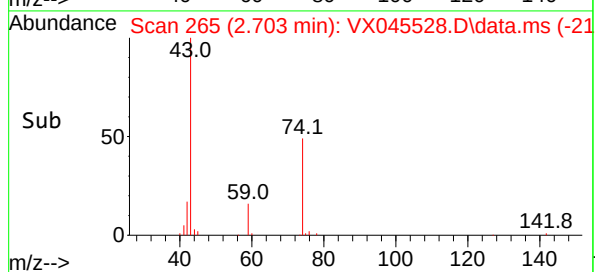
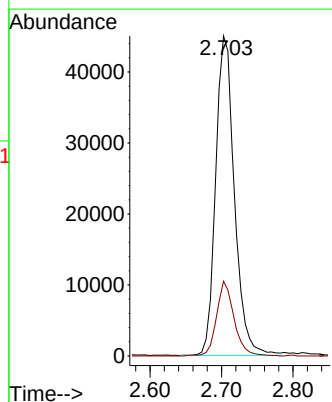
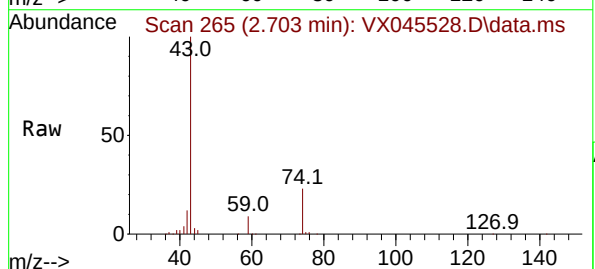
Manual Integrations
APPROVED

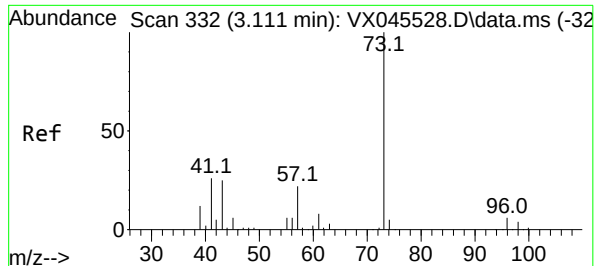
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#18
Methyl Acetate
Concen: 49.581 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 82000
Ion Ratio Lower Upper
43 100
74 21.9 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 50.429 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 73 Resp: 20258

Ion Ratio Lower Upper

73 100

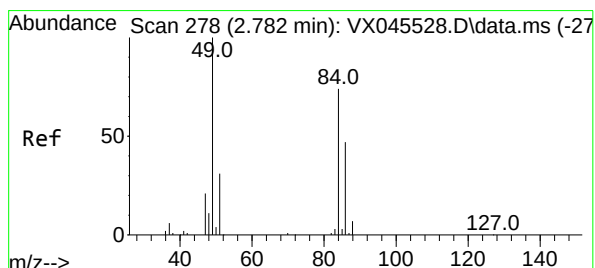
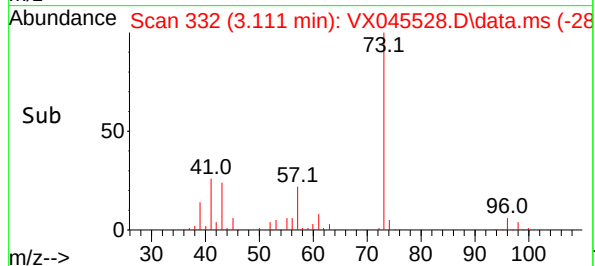
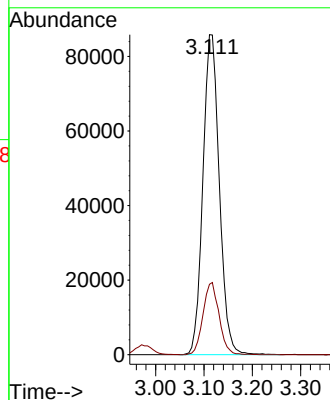
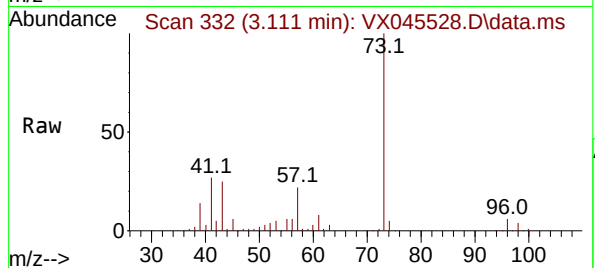
57 22.0 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 50.457 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion: 84 Resp: 67855

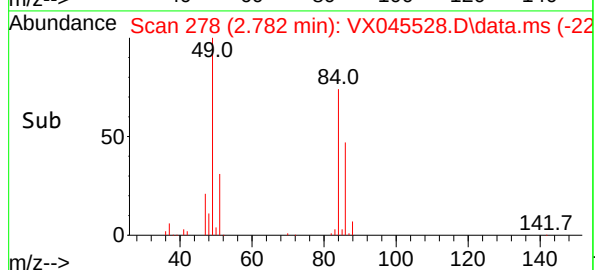
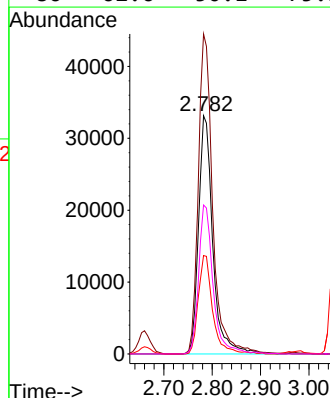
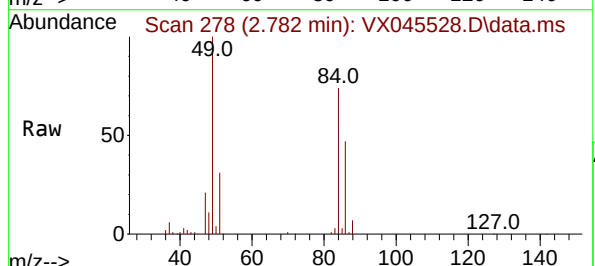
Ion Ratio Lower Upper

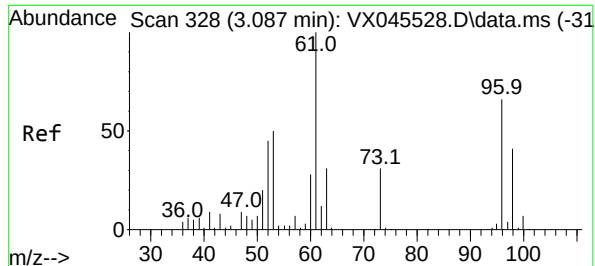
84 100

49 134.4 107.5 161.3

51 41.3 33.0 49.6

86 62.6 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 50.882 ug/l

RT: 3.087 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 59690

Ion Ratio Lower Upper

96 100

61 151.3 121.0 181.6

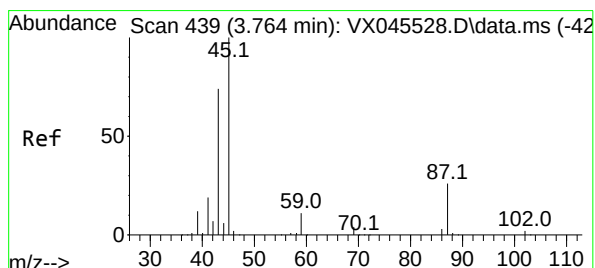
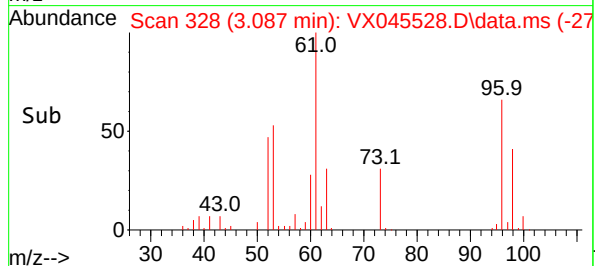
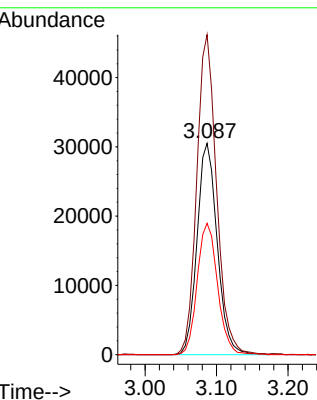
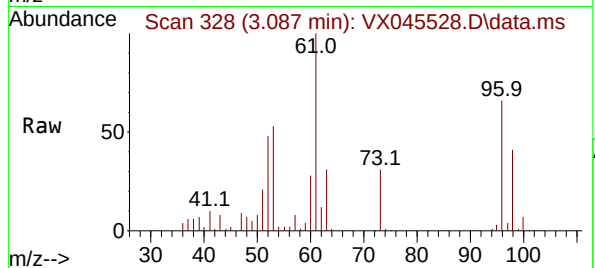
98 62.1 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#22

Diisopropyl ether

Concen: 51.111 ug/l

RT: 3.764 min Scan# 439

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion: 45 Resp: 219374

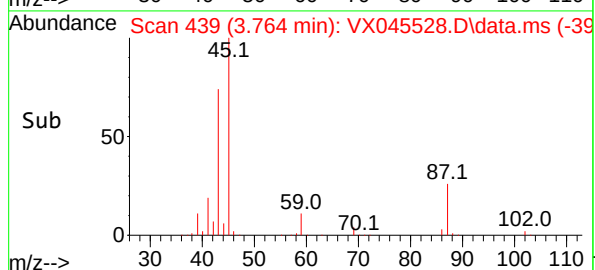
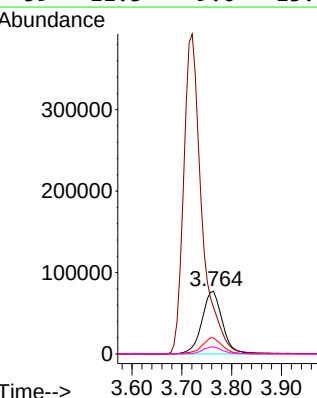
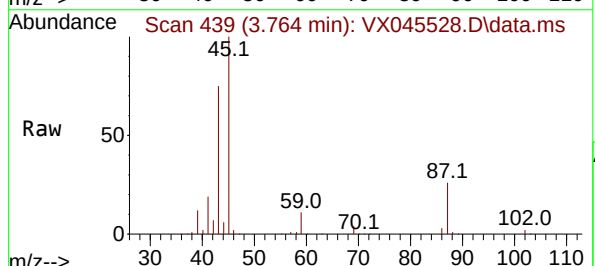
Ion Ratio Lower Upper

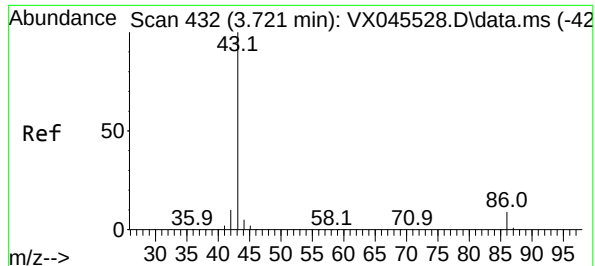
45 100

43 74.1 59.3 88.9

87 25.5 20.4 30.6

59 11.3 9.0 13.6





#23

Vinyl Acetate

Concen: 269.139 ug/l

RT: 3.721 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 998064

Ion Ratio Lower Upper

43 100

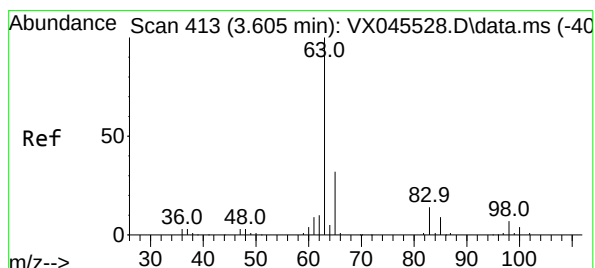
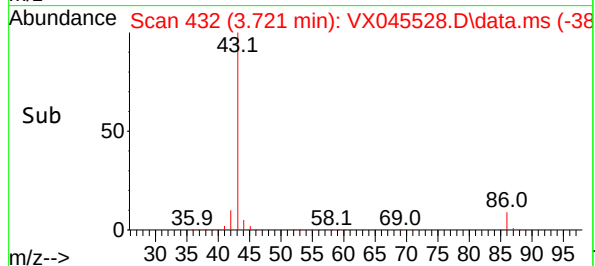
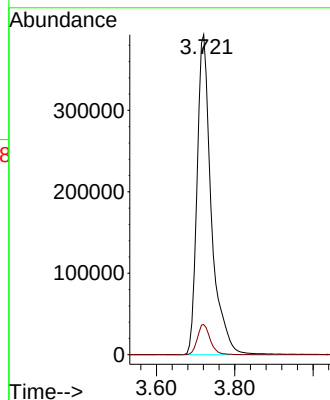
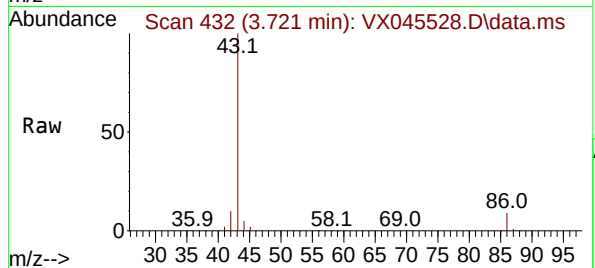
86 9.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#24

1,1-Dichloroethane

Concen: 49.992 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

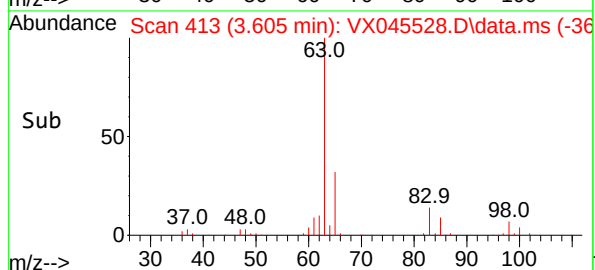
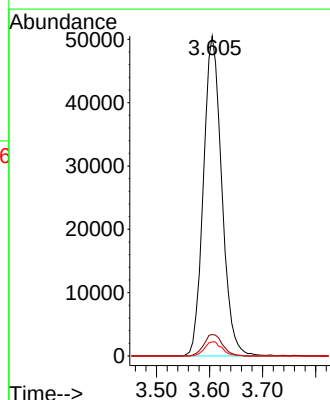
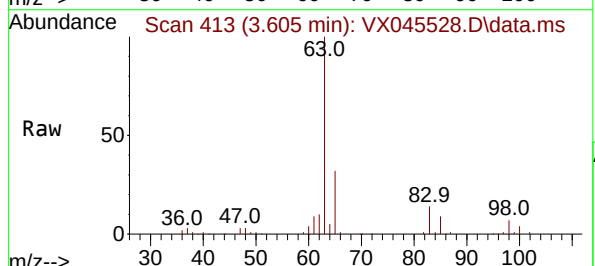
Tgt Ion: 63 Resp: 121348

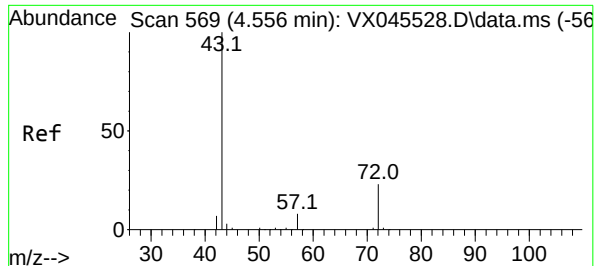
Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.1

100 4.4 2.2 6.6





#25

2-Butanone

Concen: 266.363 ug/l

RT: 4.556 min Scan# 569

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 280070

Ion Ratio Lower Upper

43 100

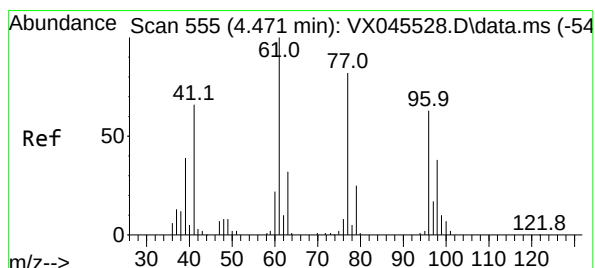
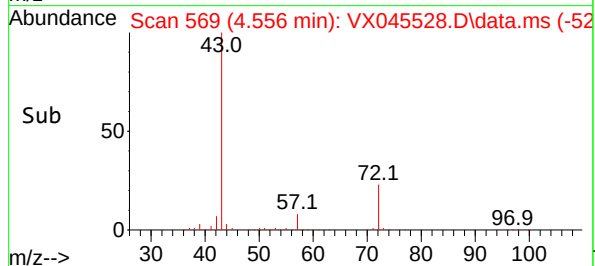
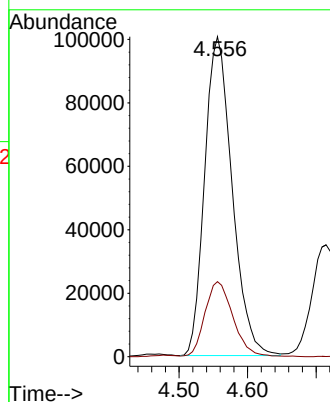
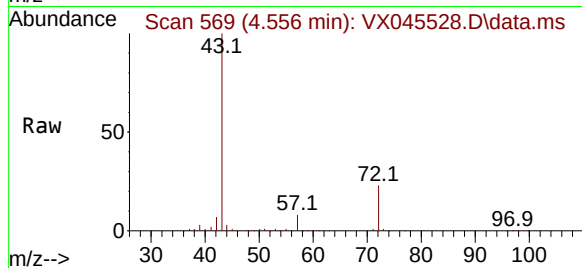
72 23.3 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#26

2,2-Dichloropropane

Concen: 51.683 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX045528.D

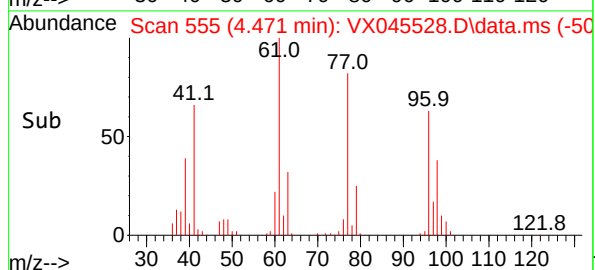
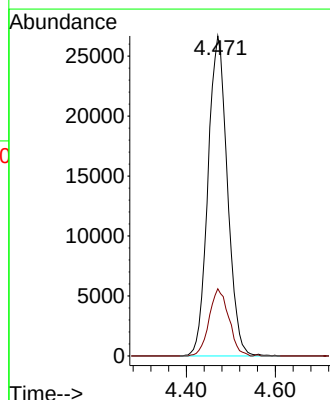
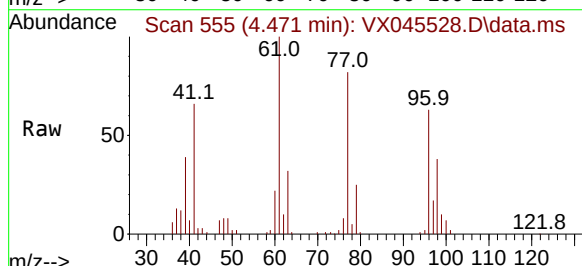
Acq: 01 Apr 2025 18:15

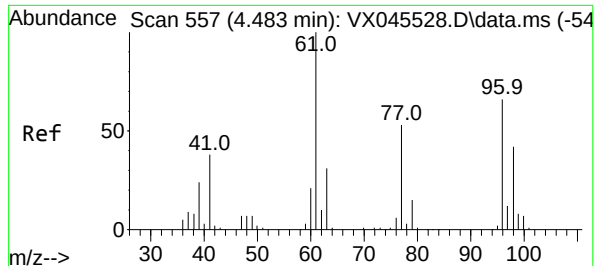
Tgt Ion: 77 Resp: 81054

Ion Ratio Lower Upper

77 100

97 21.2 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 50.282 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 7187

Ion Ratio Lower Upper

96 100

61 156.6 0.0 313.2

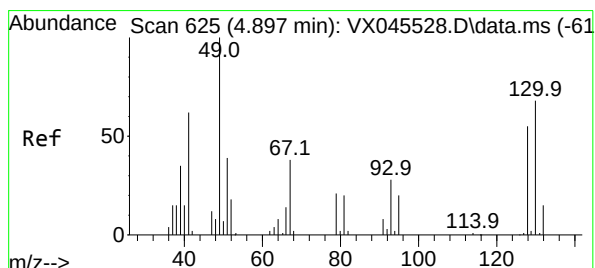
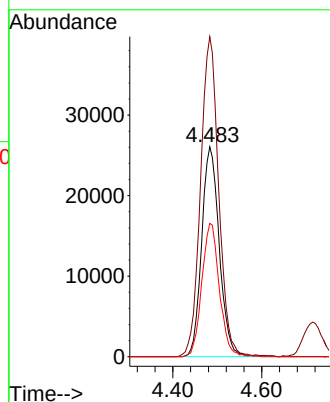
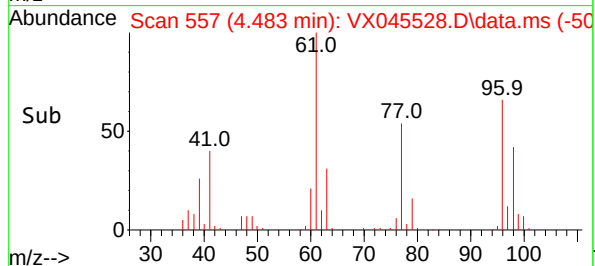
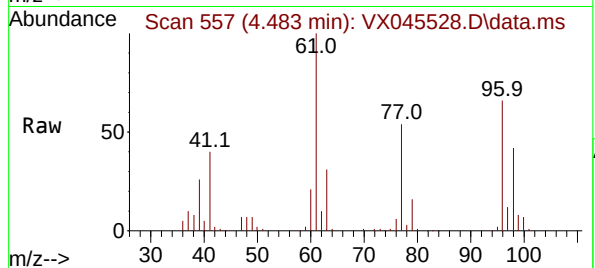
98 63.2 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 48.632 ug/l

RT: 4.897 min Scan# 625

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

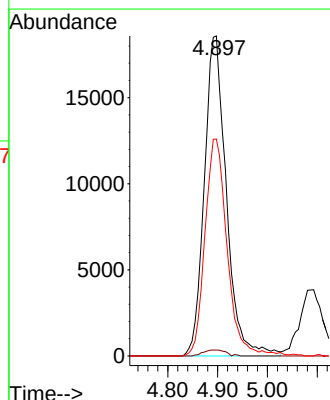
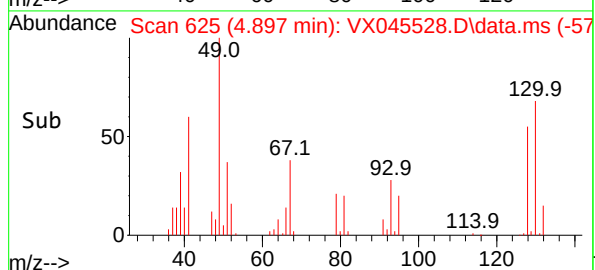
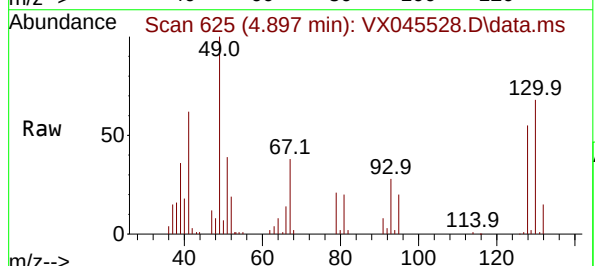
Tgt Ion: 49 Resp: 57046

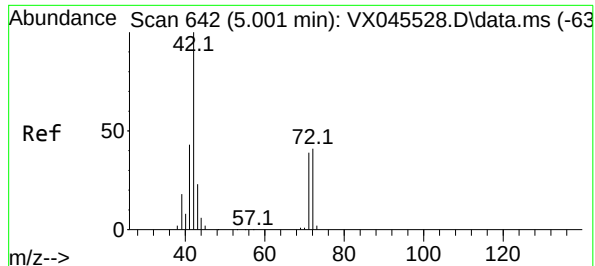
Ion Ratio Lower Upper

49 100

129 1.9 0.0 3.8

130 68.2 54.6 81.8





#29

Tetrahydrofuran

Concen: 260.230 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 17740

Ion Ratio Lower Upper

42 100

72 41.7 33.4 50.0

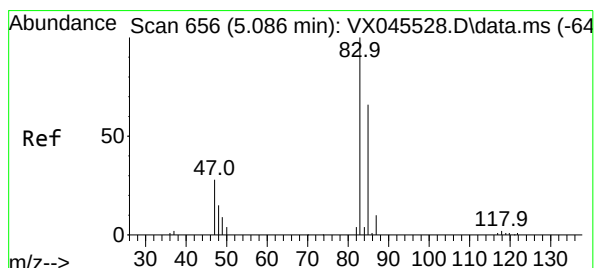
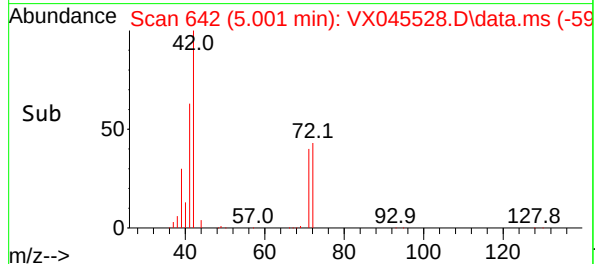
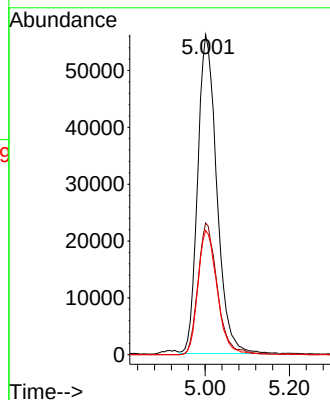
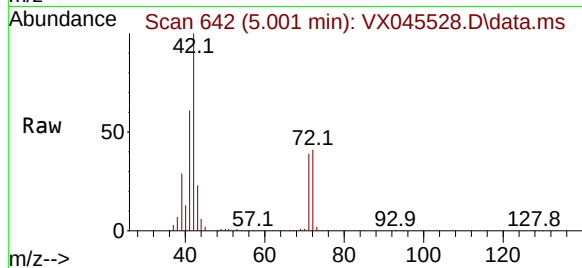
71 39.2 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 50.366 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045528.D

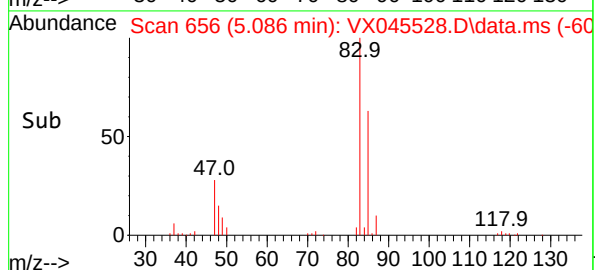
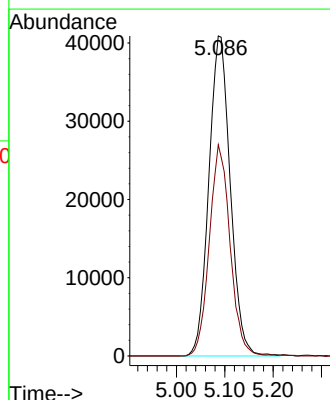
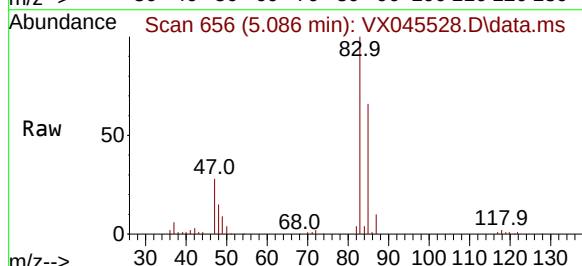
Acq: 01 Apr 2025 18:15

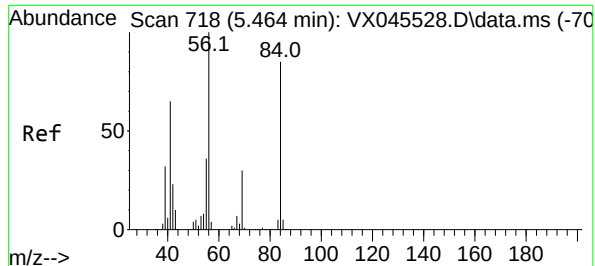
Tgt Ion: 83 Resp: 125797

Ion Ratio Lower Upper

83 100

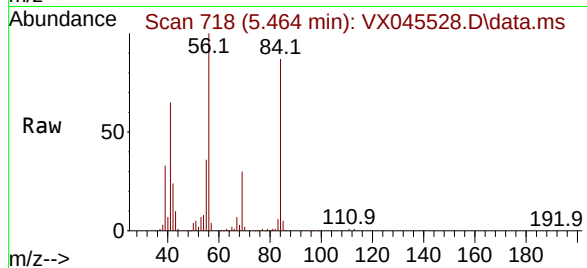
85 66.0 52.8 79.2





#31
Cyclohexane
Concen: 50.052 ug/l
RT: 5.464 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

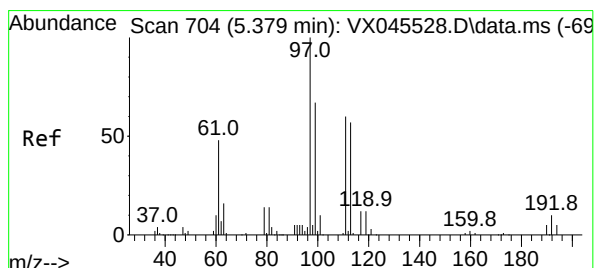
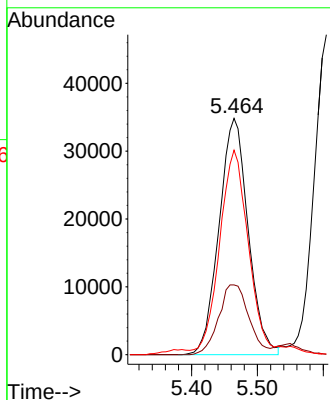
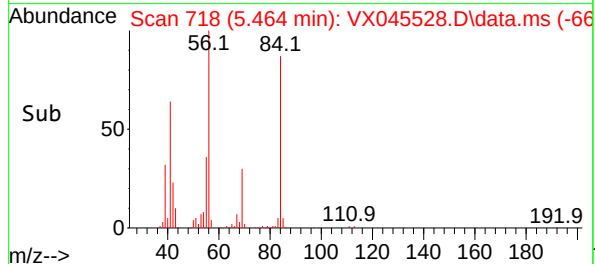
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 56 Resp: 10740
Ion Ratio Lower Upper
56 100
69 29.5 23.6 35.4
84 84.6 67.7 101.5

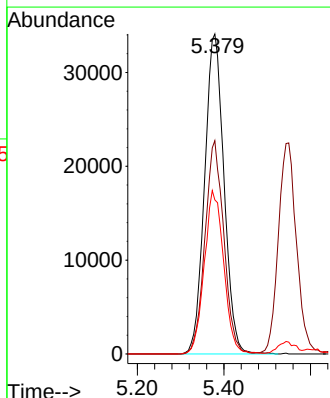
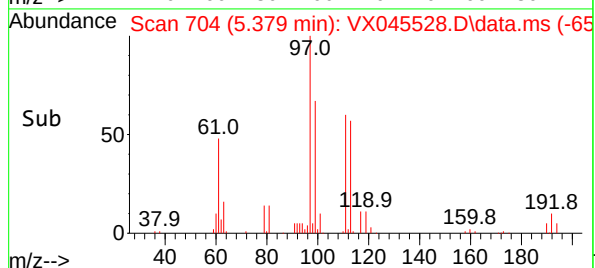
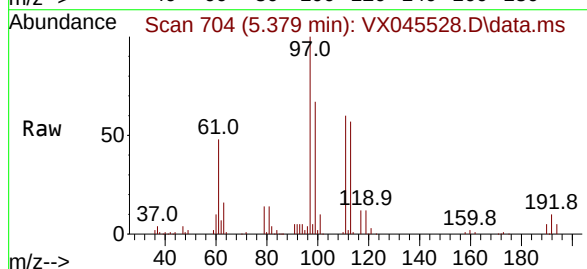
Manual Integrations
APPROVED

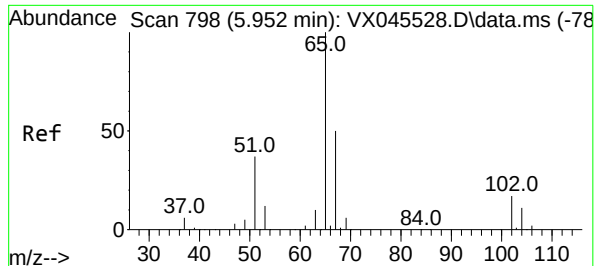
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#32
1,1,1-Trichloroethane
Concen: 50.184 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 97 Resp: 106062
Ion Ratio Lower Upper
97 100
99 64.6 51.7 77.5
61 51.2 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 47.477 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 83054

Ion Ratio Lower Upper

65 100

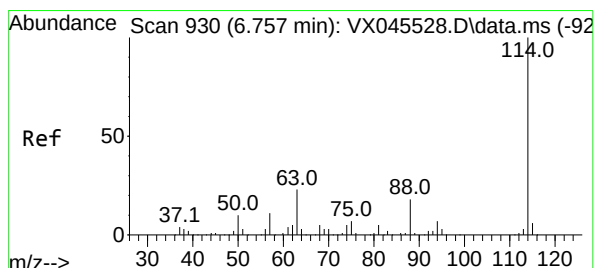
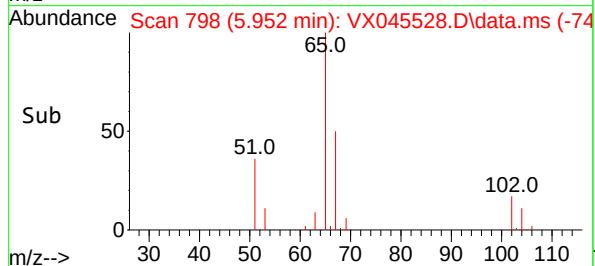
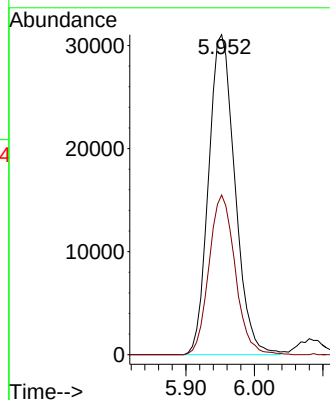
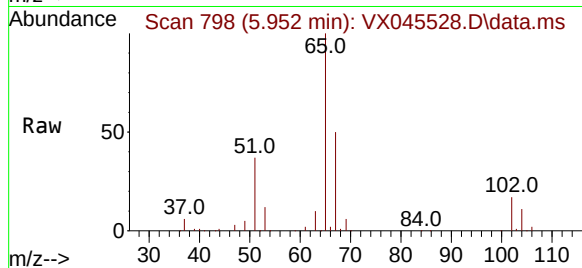
67 49.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

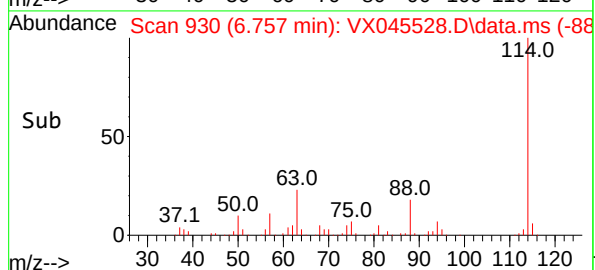
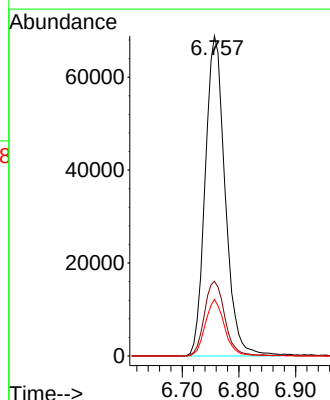
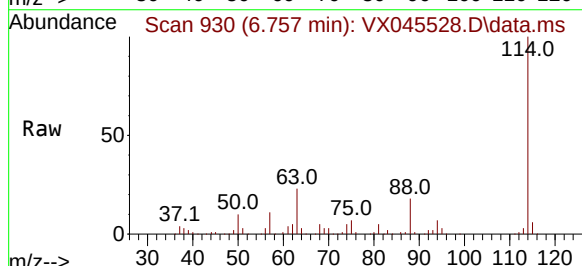
Tgt Ion:114 Resp: 168287

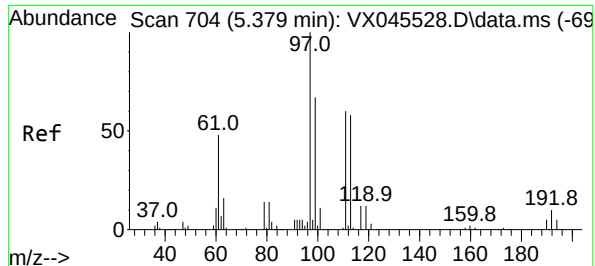
Ion Ratio Lower Upper

114 100

63 23.4 0.0 46.8

88 17.7 0.0 35.4





#35

Dibromofluoromethane

Concen: 48.667 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

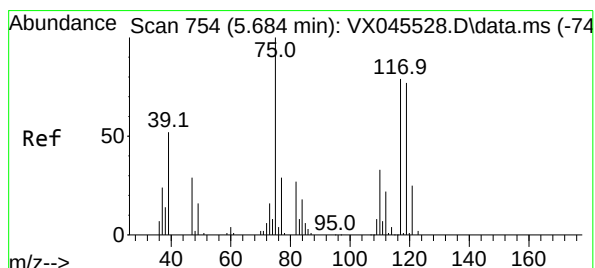
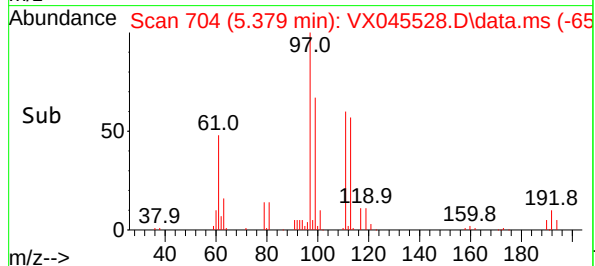
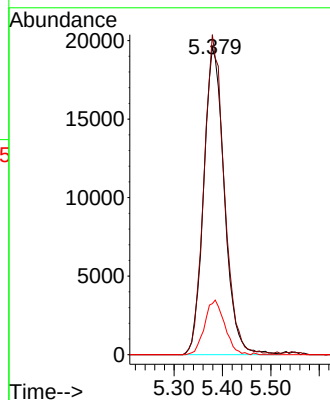
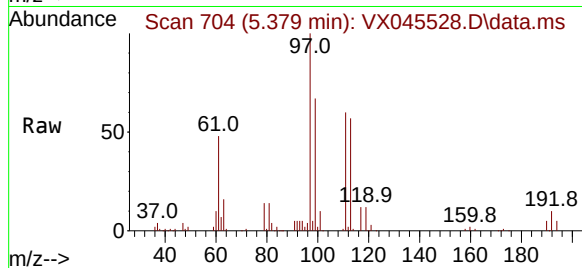
VSTDICCC050

Tgt Ion:	113	Resp:	5810
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.6
192	17.2	13.8	20.6

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#36

1,1-Dichloropropene

Concen: 50.620 ug/l

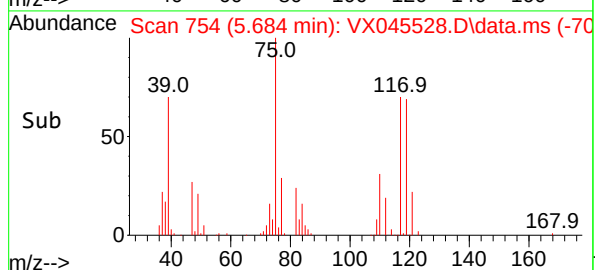
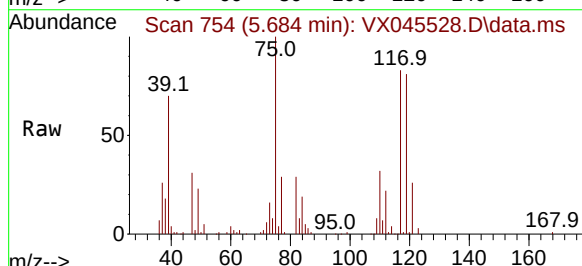
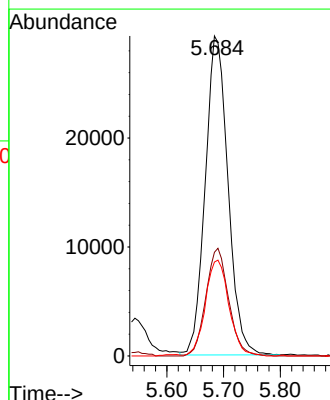
RT: 5.684 min Scan# 754

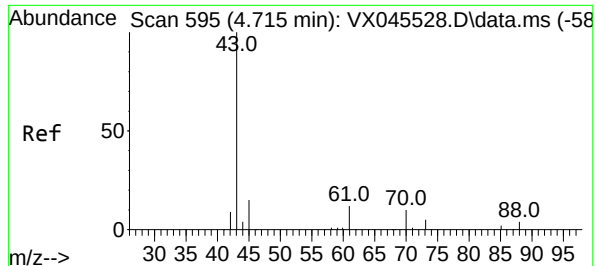
Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion:	75	Resp:	81607
Ion	Ratio	Lower	Upper
75	100		
110	33.7	16.9	50.6
77	31.2	25.0	37.4





#37

Ethyl Acetate

Concen: 51.632 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

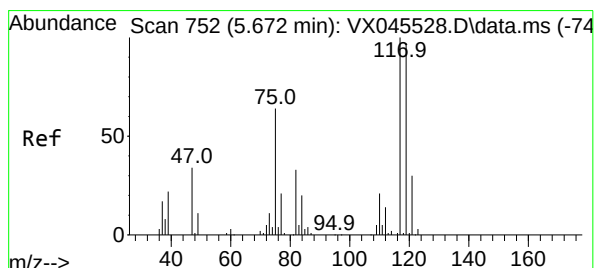
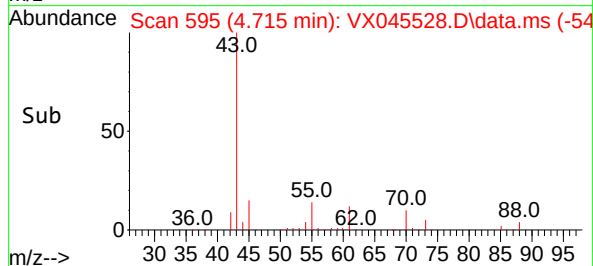
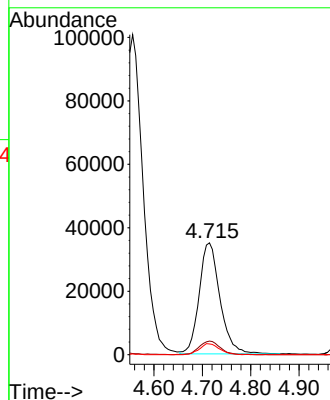
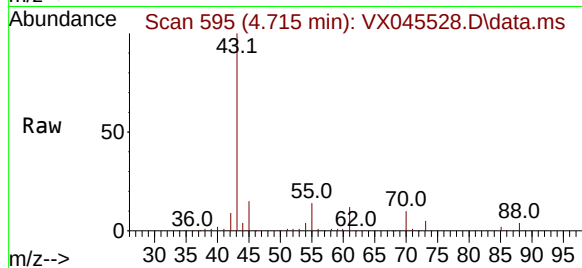
Tgt Ion: 43 Resp: 104890

Ion	Ratio	Lower	Upper
43	100		
61	12.4	9.9	14.9
70	9.4	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#38

Carbon Tetrachloride

Concen: 51.797 ug/l

RT: 5.672 min Scan# 752

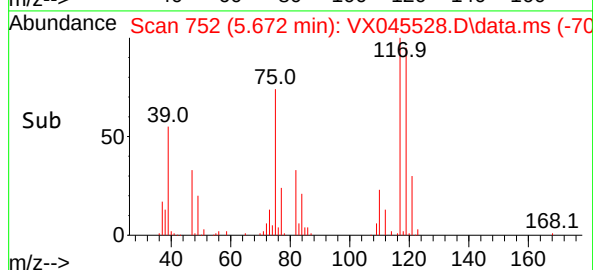
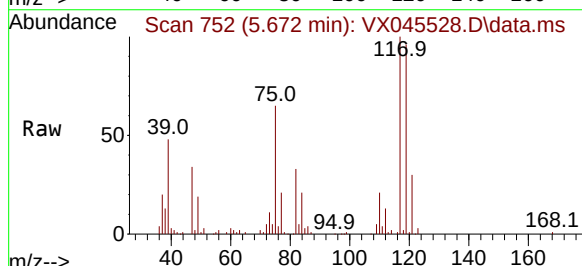
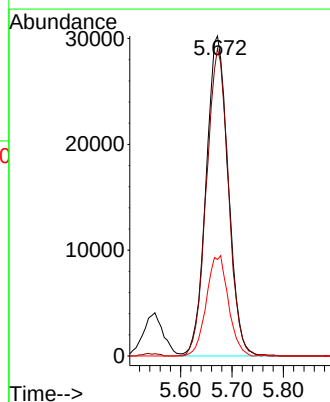
Delta R.T. 0.000 min

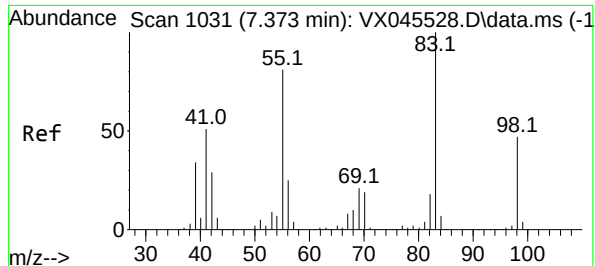
Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion:117 Resp: 90247

Ion	Ratio	Lower	Upper
117	100		
119	96.1	76.9	115.3
121	30.2	24.2	36.2





#39

Methylcyclohexane

Concen: 52.970 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 83 Resp: 104678

Ion Ratio Lower Upper

83 100

55 81.1 64.9 97.3

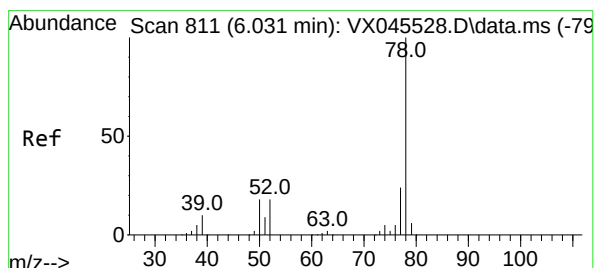
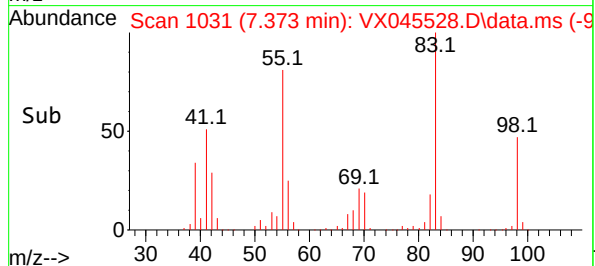
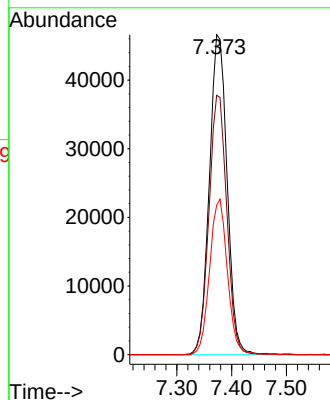
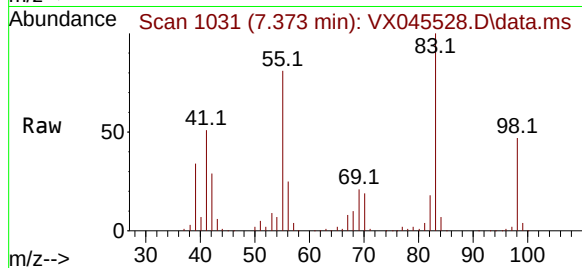
98 46.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#40

Benzene

Concen: 50.605 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045528.D

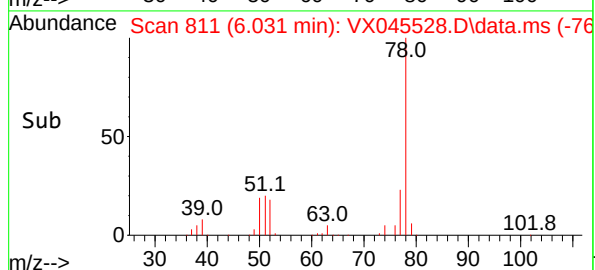
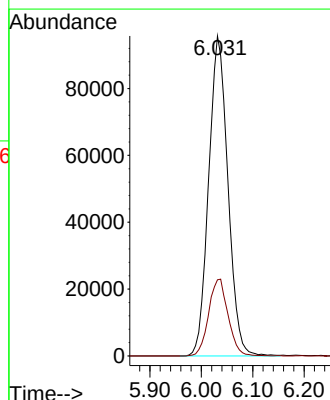
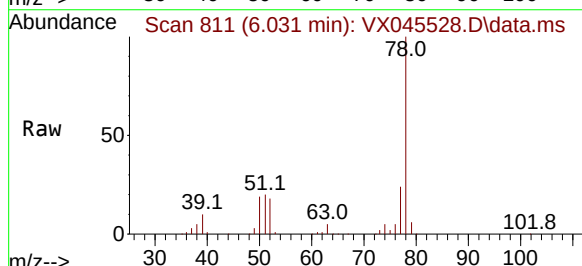
Acq: 01 Apr 2025 18:15

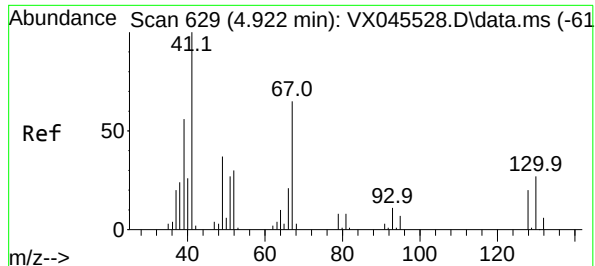
Tgt Ion: 78 Resp: 249161

Ion Ratio Lower Upper

78 100

77 23.8 19.0 28.6





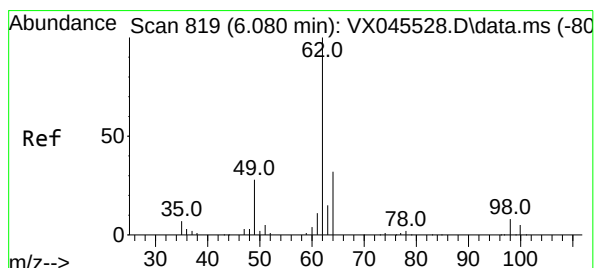
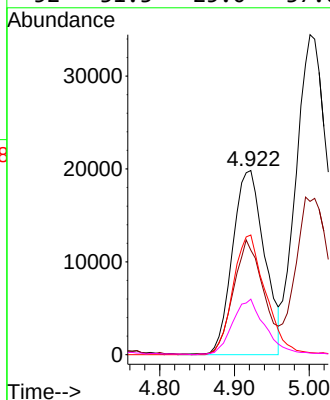
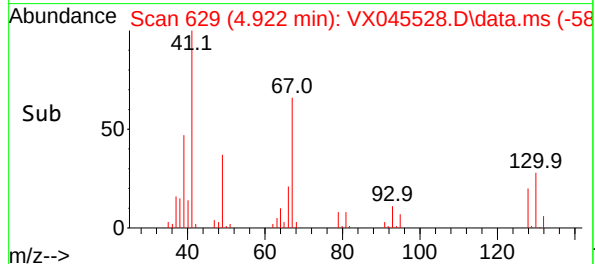
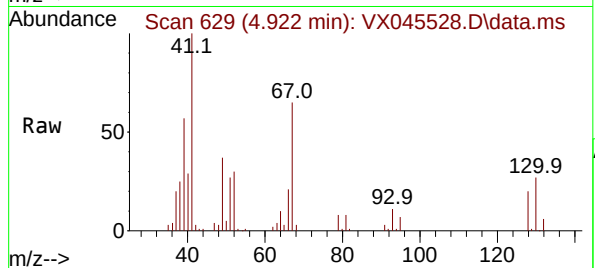
#41
Methacrylonitrile
Concen: 54.623 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 41 Resp: 5906
Ion Ratio Lower Upper
41 100
39 58.8 47.0 70.6
67 66.5 53.2 79.8
52 31.3 25.0 37.6

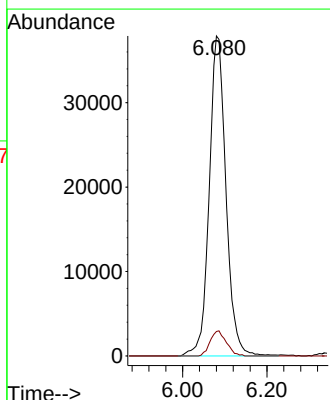
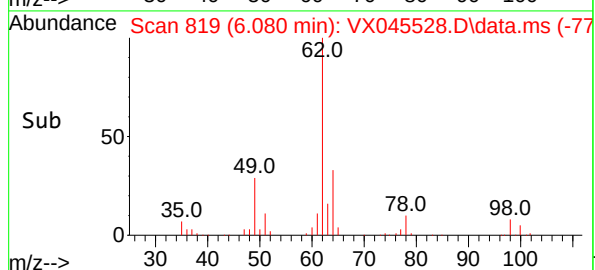
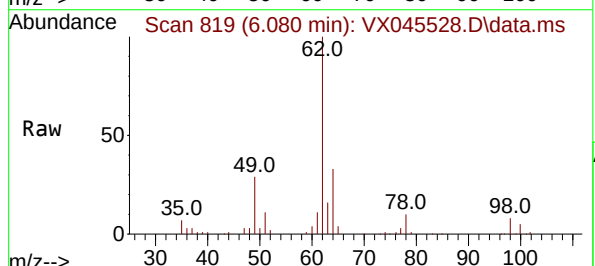
Manual Integrations
APPROVED

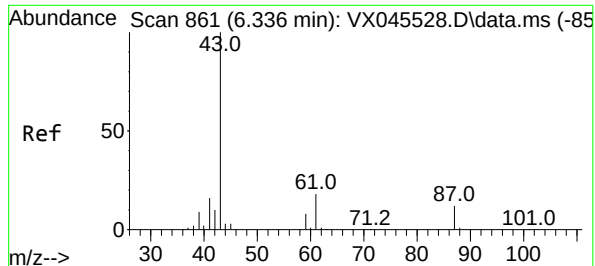
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#42
1,2-Dichloroethane
Concen: 51.437 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 62 Resp: 104601
Ion Ratio Lower Upper
62 100
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 53.452 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 16458

Ion Ratio Lower Upper

43 100

61 17.6 14.1 21.1

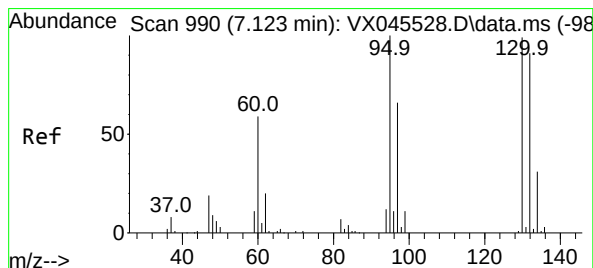
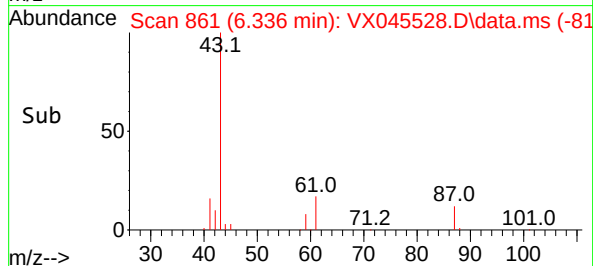
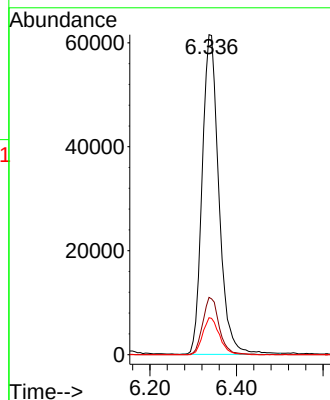
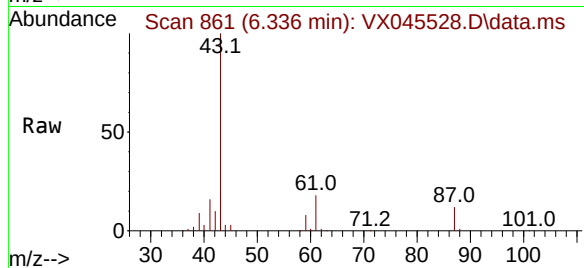
87 11.5 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#44

Trichloroethene

Concen: 50.452 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.000 min

Lab File: VX045528.D

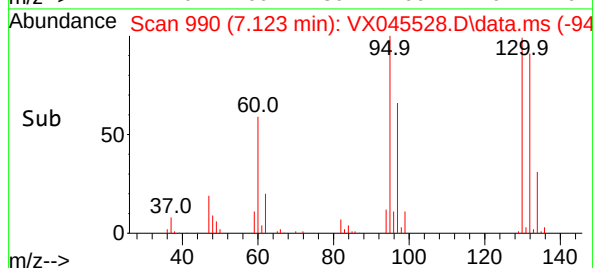
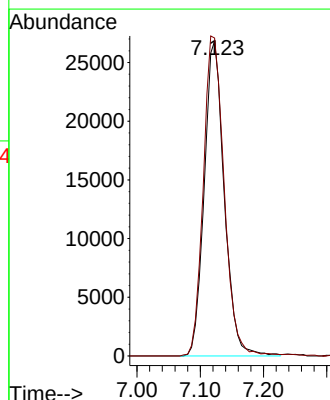
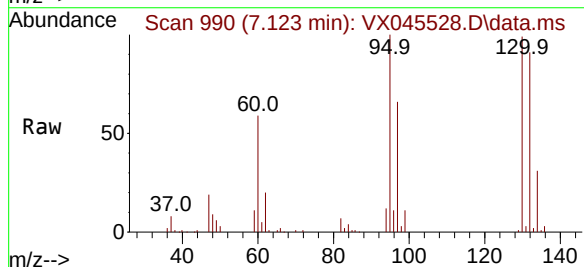
Acq: 01 Apr 2025 18:15

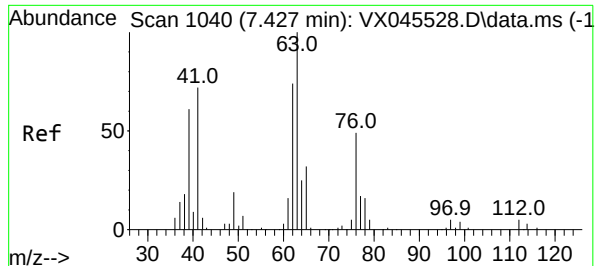
Tgt Ion:130 Resp: 59042

Ion Ratio Lower Upper

130 100

95 101.0 0.0 202.0





#45

1,2-Dichloropropane

Concen: 51.540 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 63310

Ion Ratio Lower Upper

63 100

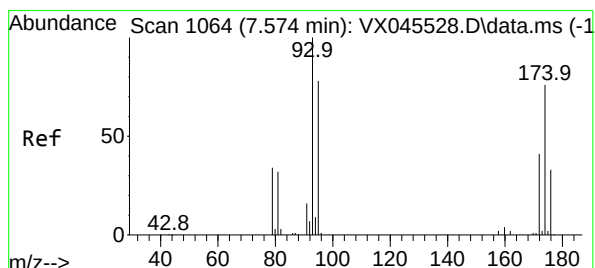
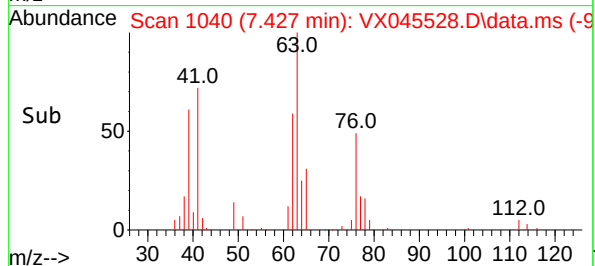
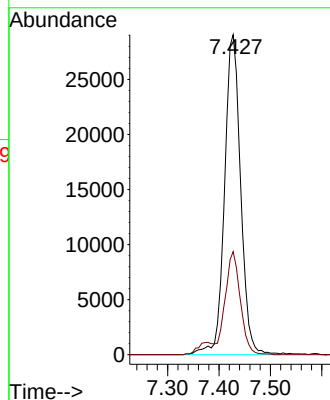
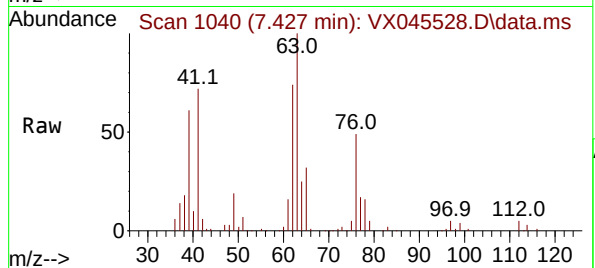
65 32.2 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#46

Dibromomethane

Concen: 52.092 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

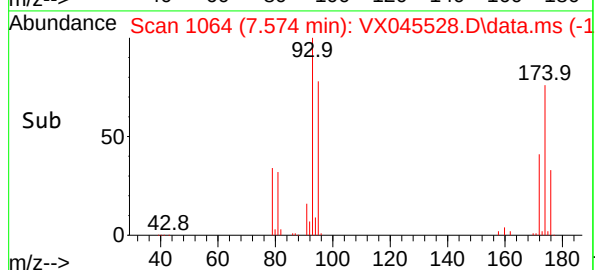
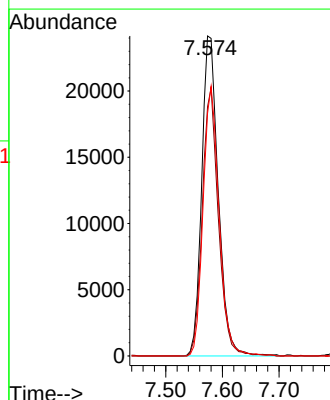
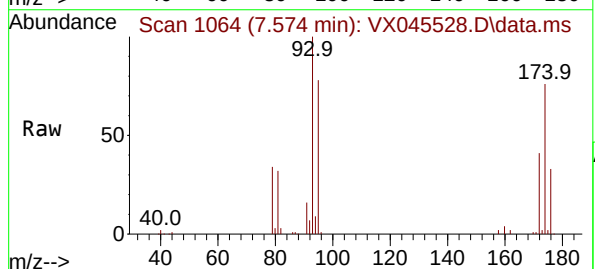
Tgt Ion: 93 Resp: 49125

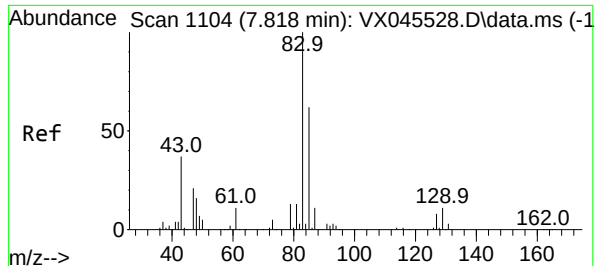
Ion Ratio Lower Upper

93 100

95 81.0 64.8 97.2

174 81.7 65.4 98.0





#47

Bromodichloromethane

Concen: 51.068 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

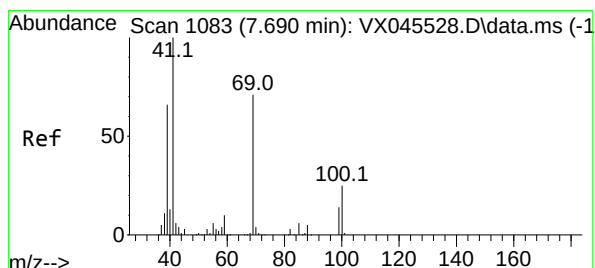
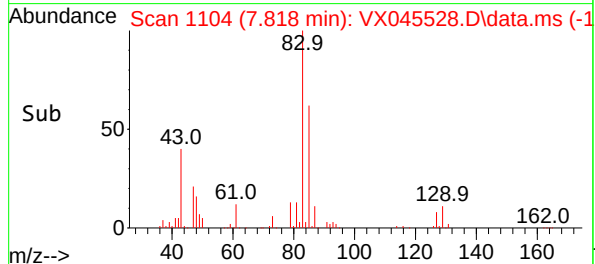
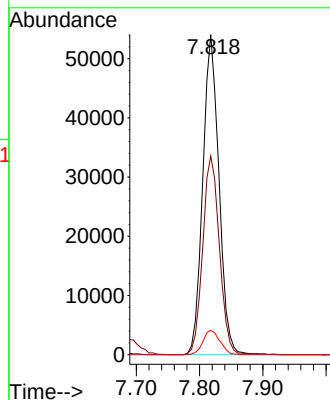
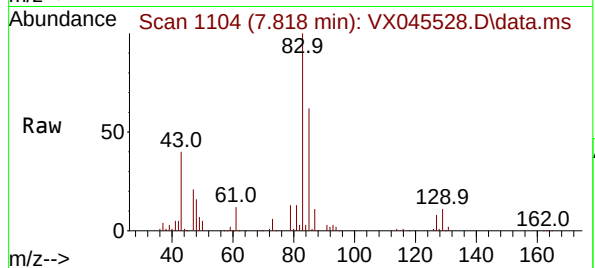
Tgt Ion:	83	Resp:	96170
Ion	Ratio	Lower	Upper
83	100		
85	62.1	49.7	74.5
127	7.6	6.1	9.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#48

Methyl methacrylate

Concen: 53.768 ug/l

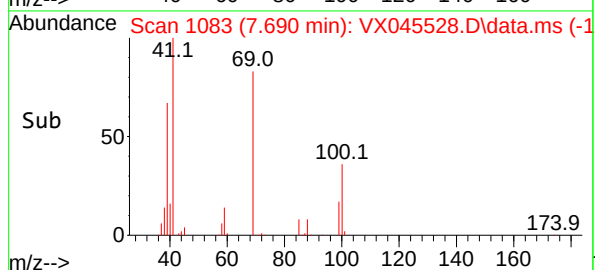
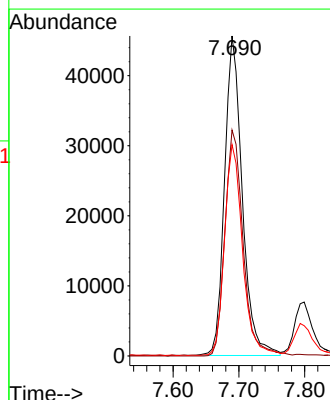
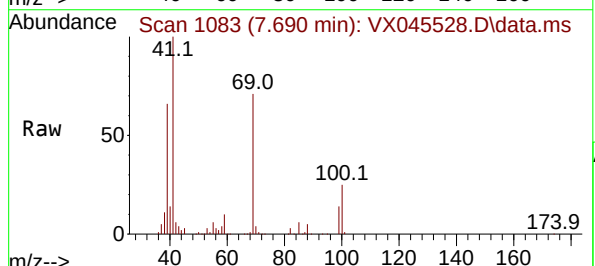
RT: 7.690 min Scan# 1083

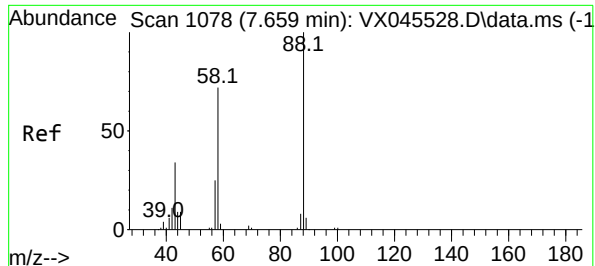
Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion:	41	Resp:	85483
Ion	Ratio	Lower	Upper
41	100		
69	72.7	58.2	87.2
39	67.0	53.6	80.4





#49

1,4-Dioxane

Concen: 1084.635 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

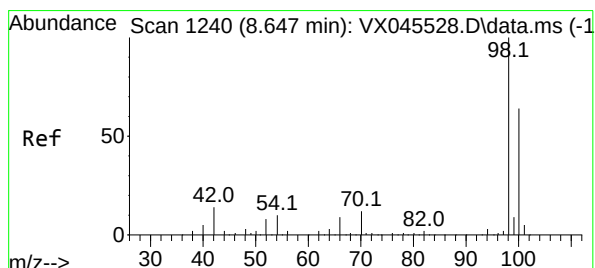
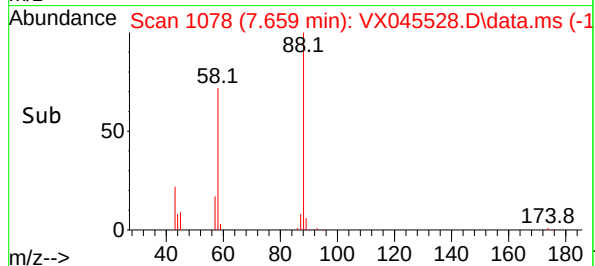
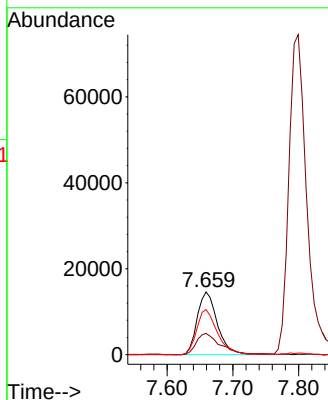
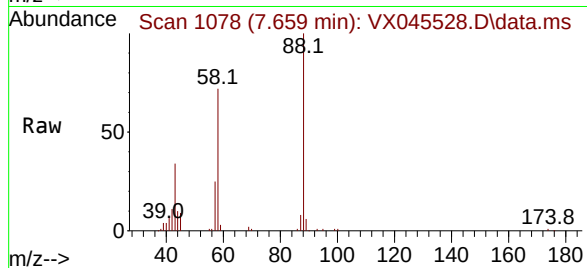
Tgt Ion:	88	Resp:	31199
Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.2	48.4
58	73.3	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#50

Toluene-d8

Concen: 49.031 ug/l

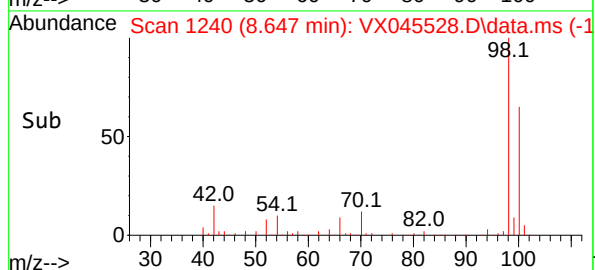
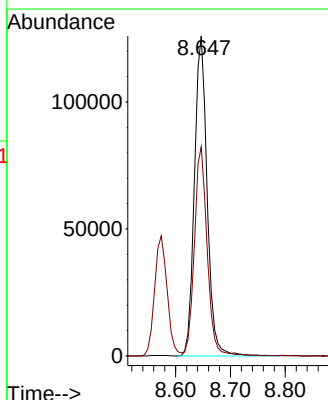
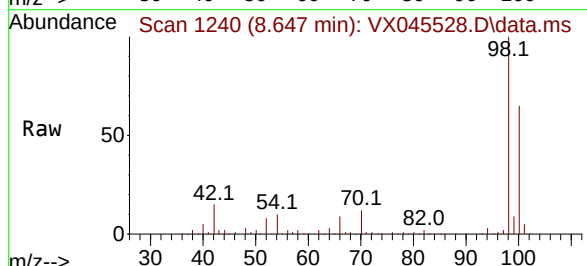
RT: 8.647 min Scan# 1240

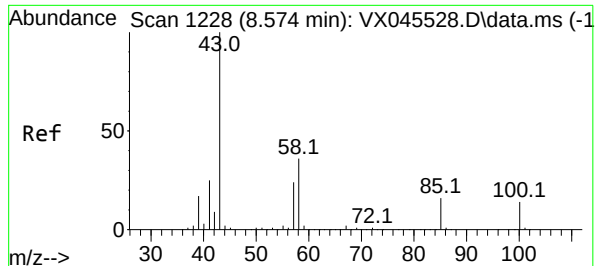
Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion:	98	Resp:	204338
Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 273.375 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 558029

Ion Ratio Lower Upper

43 100

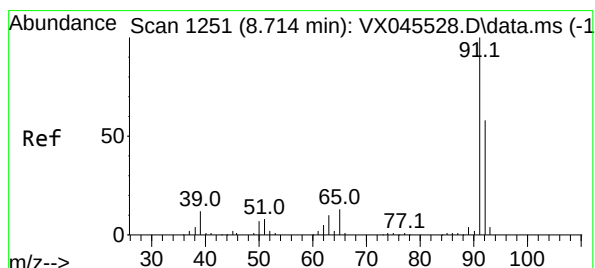
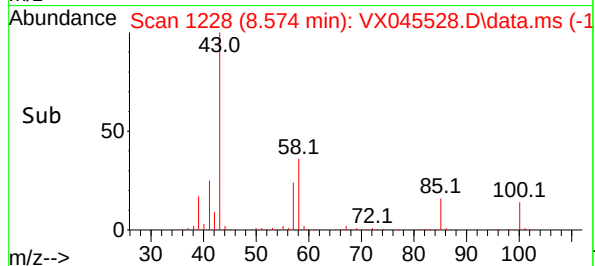
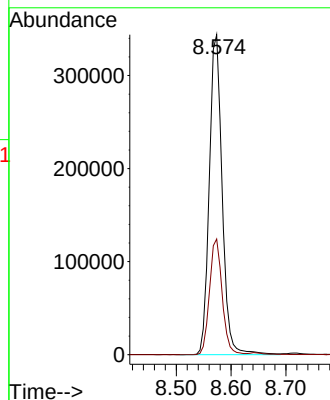
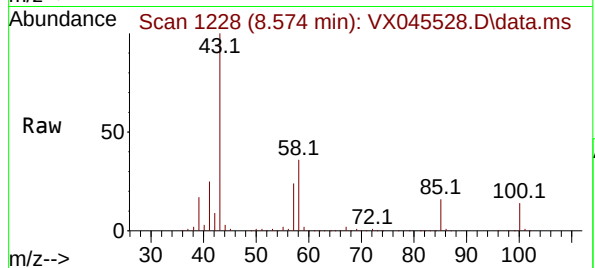
58 35.6 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#52

Toluene

Concen: 51.402 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX045528.D

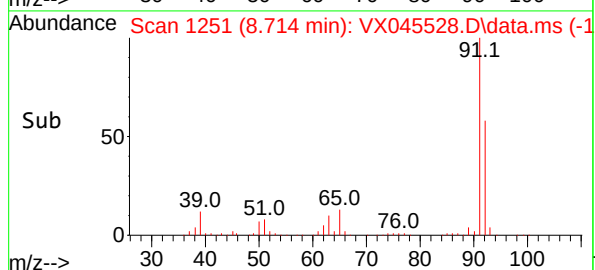
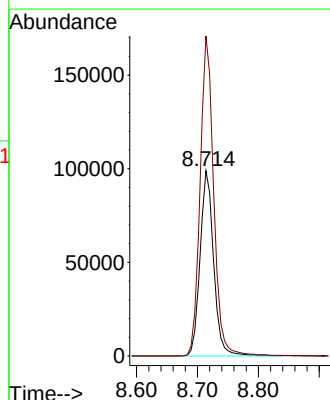
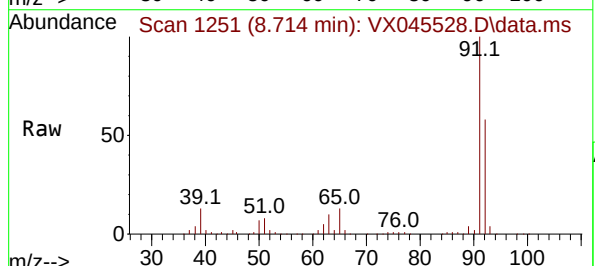
Acq: 01 Apr 2025 18:15

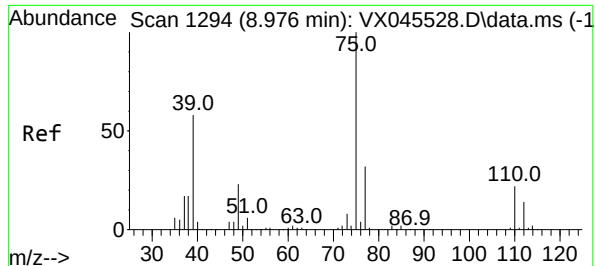
Tgt Ion: 92 Resp: 153143

Ion Ratio Lower Upper

92 100

91 173.4 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 47.317 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 85462

Ion Ratio Lower Upper

75 100

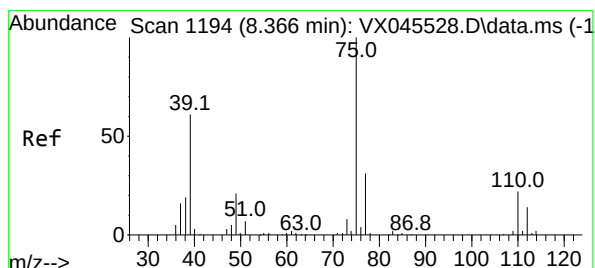
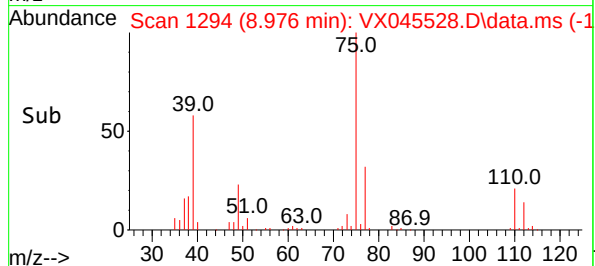
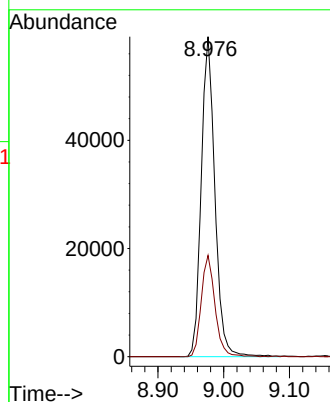
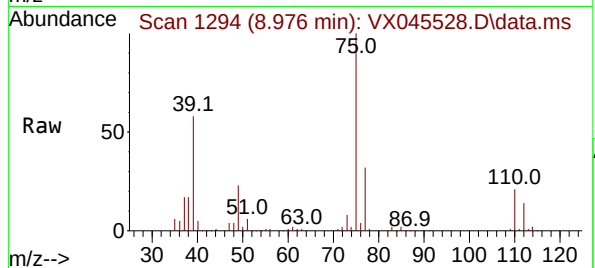
77 31.7 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#54

cis-1,3-Dichloropropene

Concen: 53.975 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

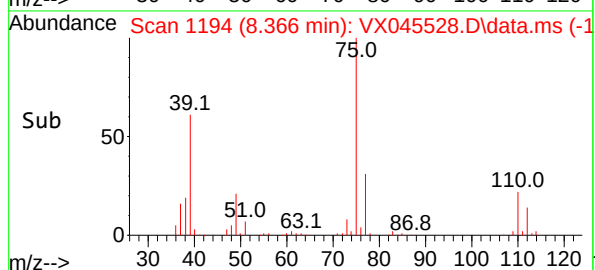
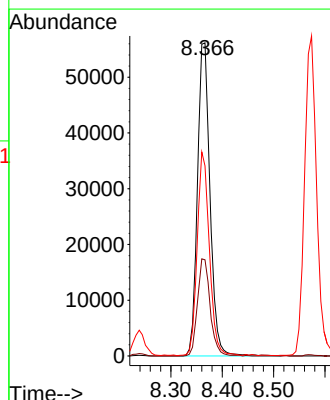
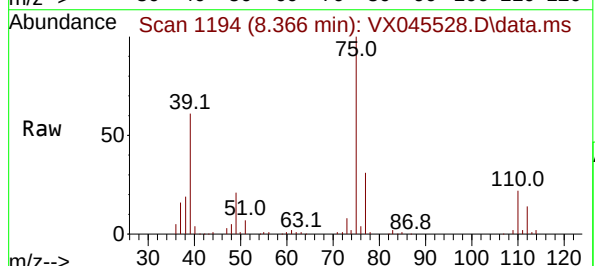
Tgt Ion: 75 Resp: 95524

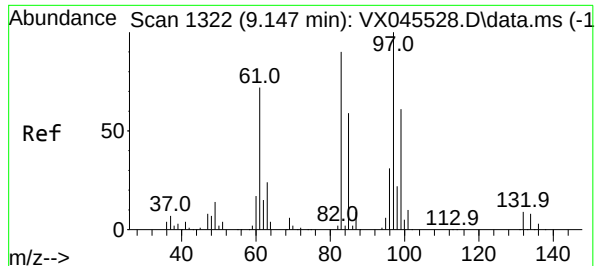
Ion Ratio Lower Upper

75 100

77 30.7 24.6 36.8

39 60.5 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 50.919 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 60452

Ion Ratio Lower Upper

97 100

83 89.8 71.8 107.8

85 58.8 47.0 70.6

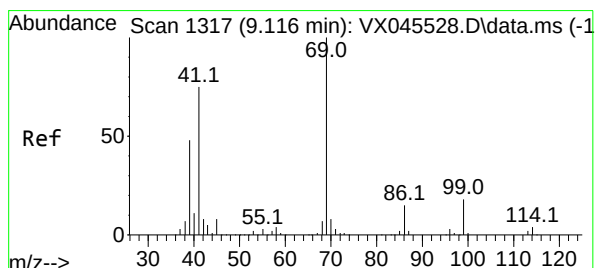
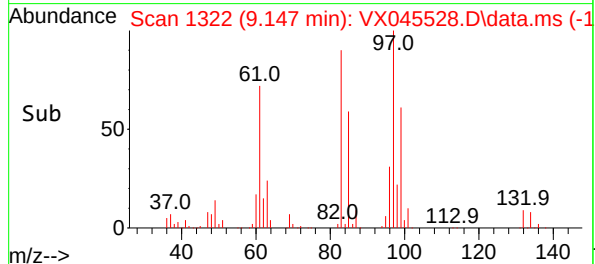
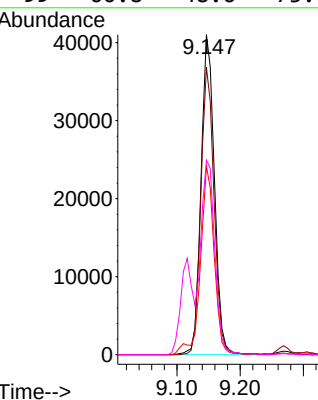
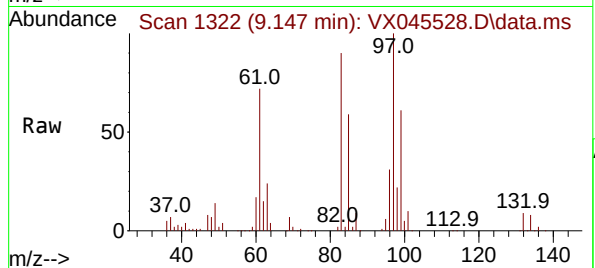
99 60.8 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#56

Ethyl methacrylate

Concen: 54.970 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

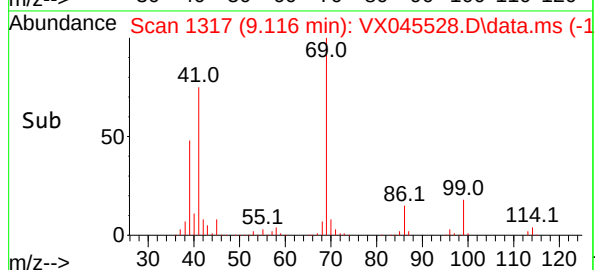
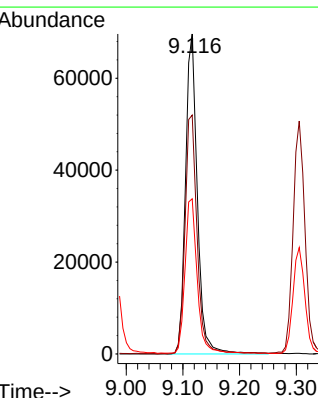
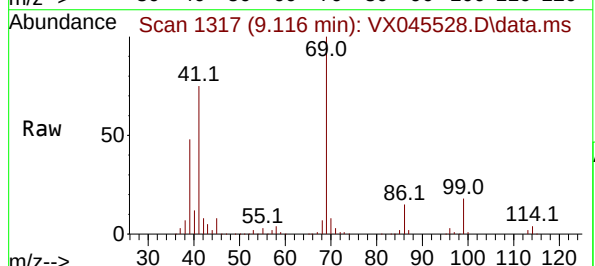
Tgt Ion: 69 Resp: 100998

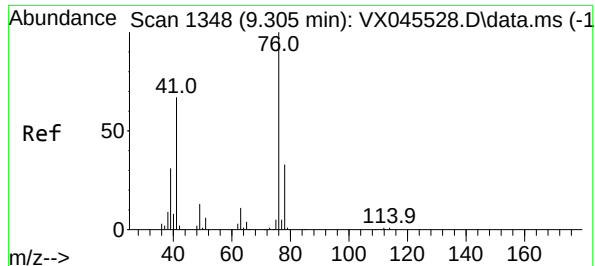
Ion Ratio Lower Upper

69 100

41 76.6 61.3 91.9

39 50.2 40.2 60.2





#57

1,3-Dichloropropane

Concen: 51.554 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 106580

Ion Ratio Lower Upper

76 100

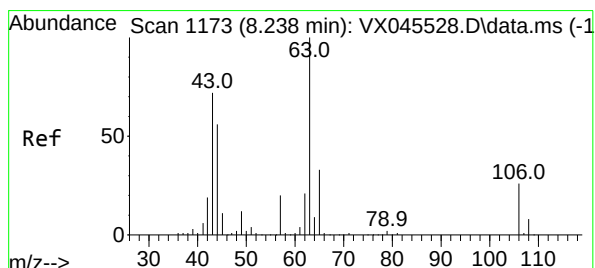
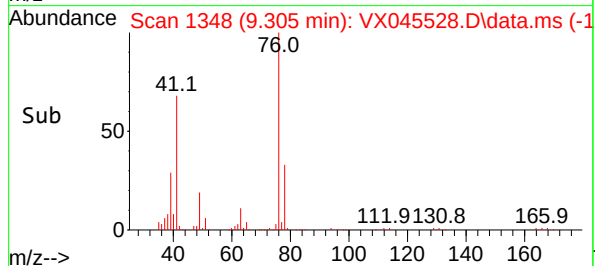
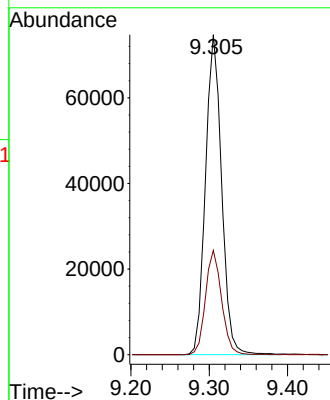
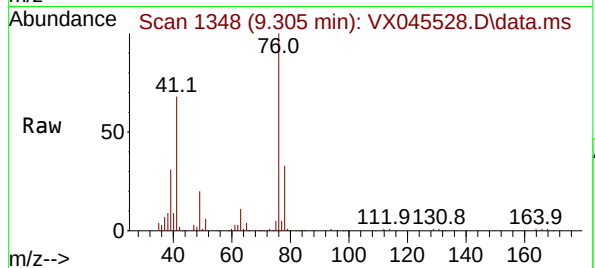
78 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#58

2-Chloroethyl Vinyl ether

Concen: 269.434 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045528.D

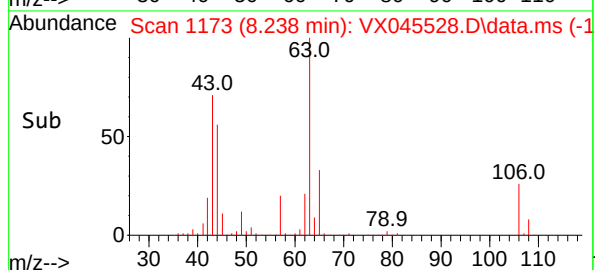
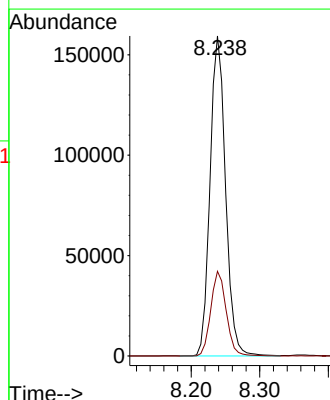
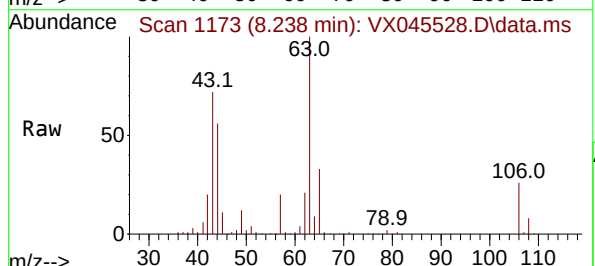
Acq: 01 Apr 2025 18:15

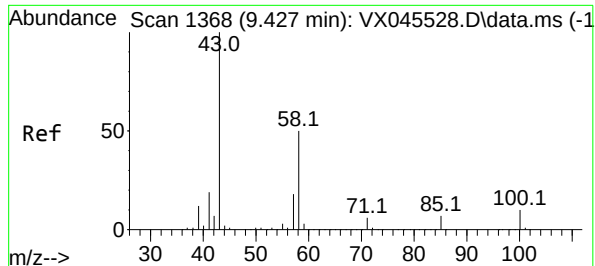
Tgt Ion: 63 Resp: 250428

Ion Ratio Lower Upper

63 100

106 26.3 21.0 31.6





#59

2-Hexanone

Concen: 273.765 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 413824

Ion Ratio Lower Upper

43 100

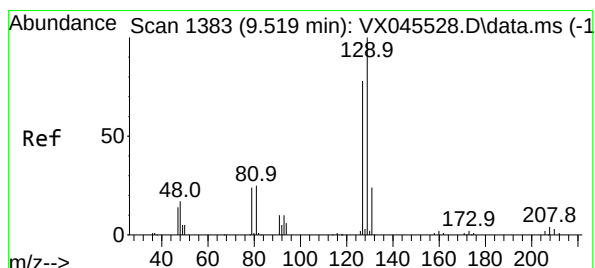
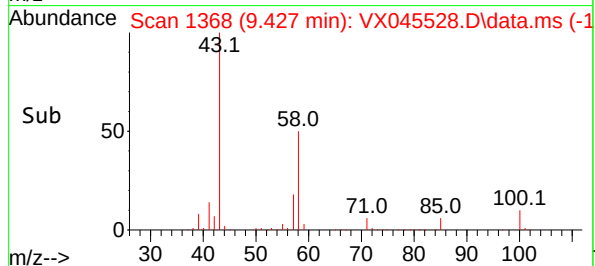
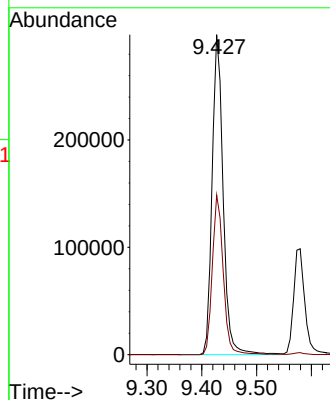
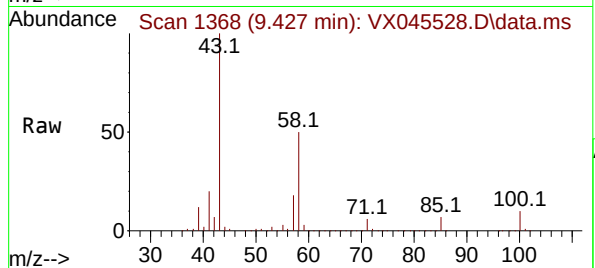
58 49.7 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#60

Dibromochloromethane

Concen: 53.511 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045528.D

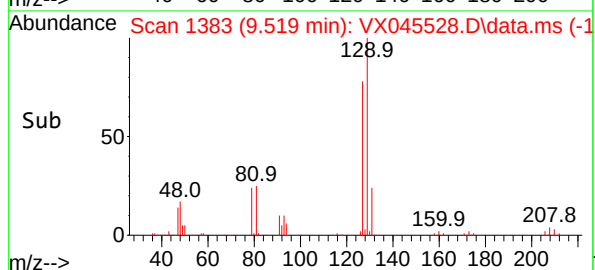
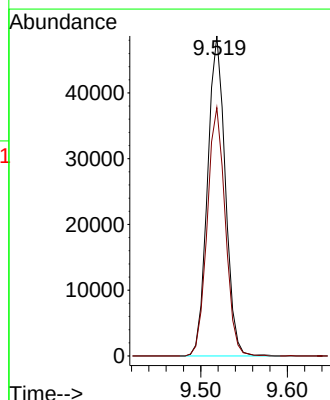
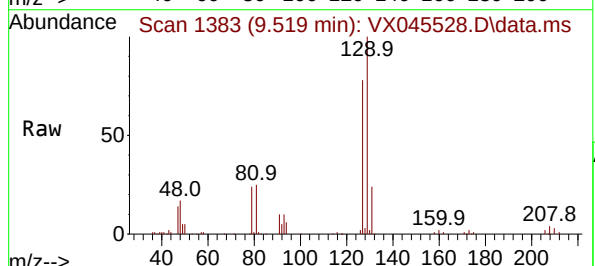
Acq: 01 Apr 2025 18:15

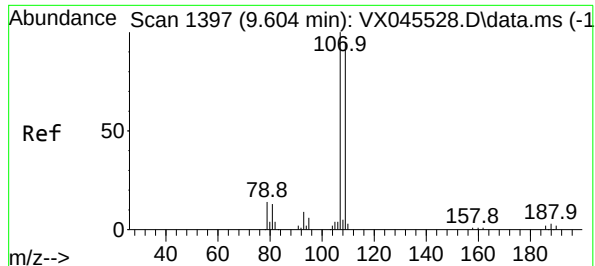
Tgt Ion:129 Resp: 69258

Ion Ratio Lower Upper

129 100

127 78.8 39.4 118.2





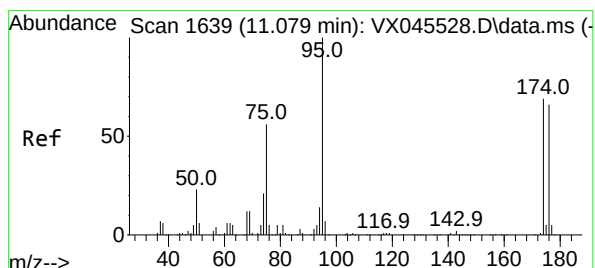
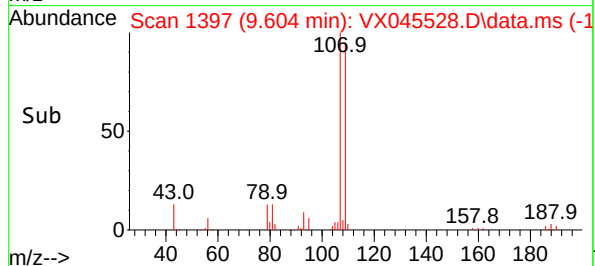
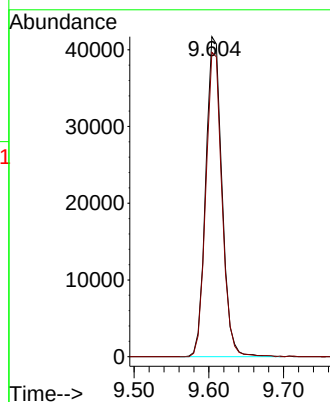
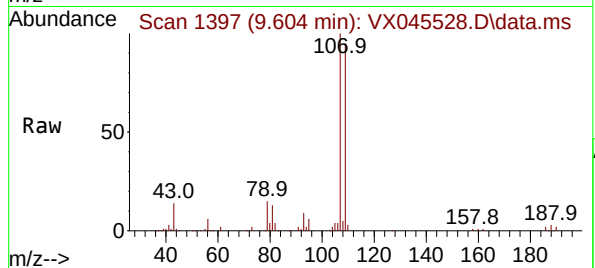
#61
1,2-Dibromoethane
Concen: 52.264 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 107 Resp: 6281
Ion Ratio Lower Upper
107 100
109 94.6 75.7 113.5

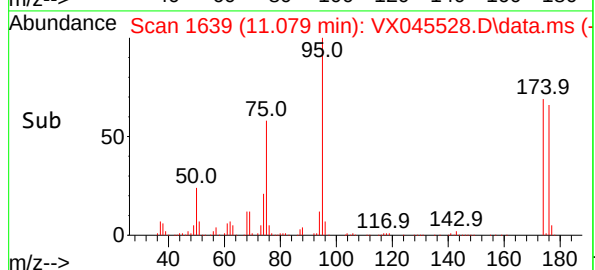
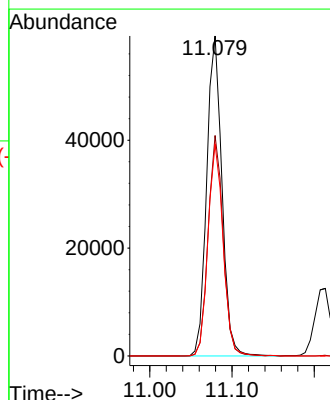
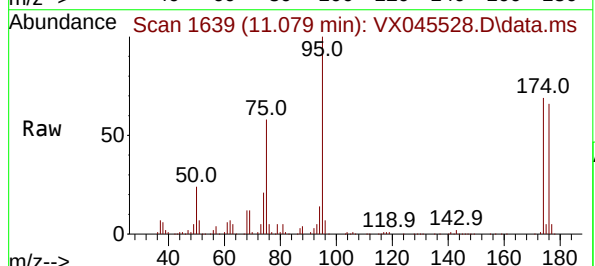
Manual Integrations
APPROVED

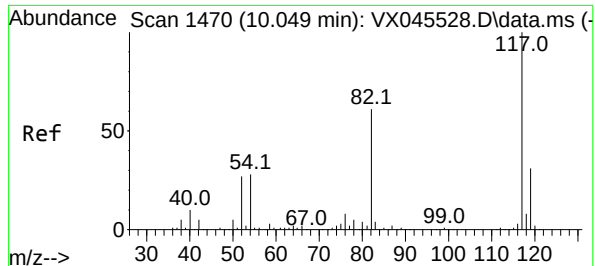
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#62
4-Bromofluorobenzene
Concen: 50.190 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 95 Resp: 76190
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.8
176 65.7 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:117 Resp: 15020

Ion Ratio Lower Upper

117 100

82 61.5 49.2 73.8

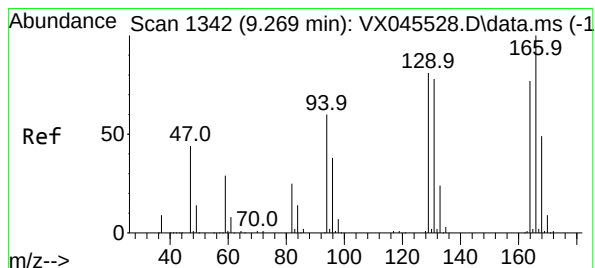
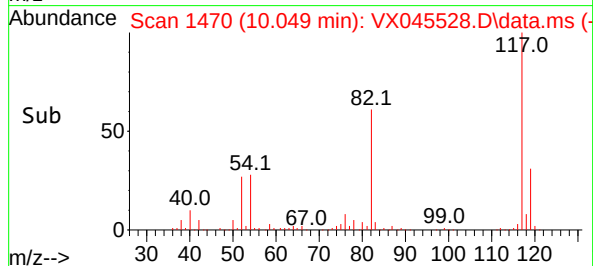
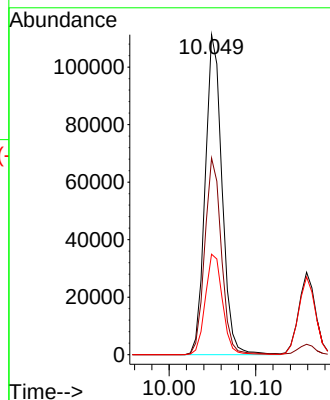
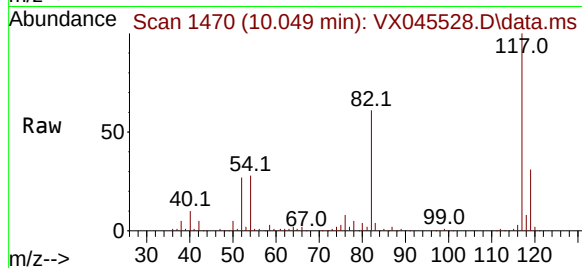
119 31.4 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#64

Tetrachloroethene

Concen: 49.181 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Tgt Ion:164 Resp: 52155

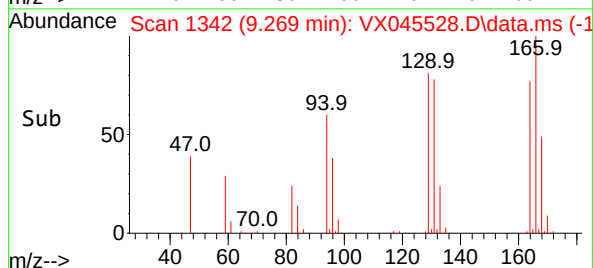
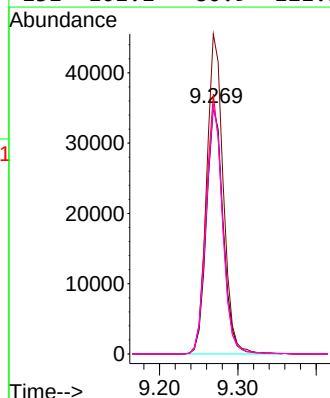
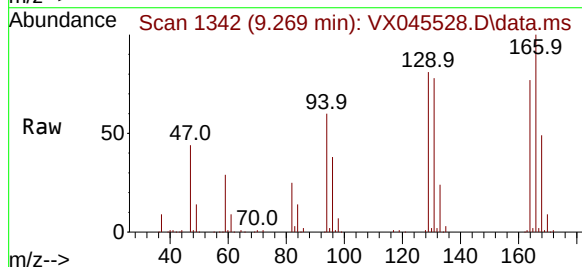
Ion Ratio Lower Upper

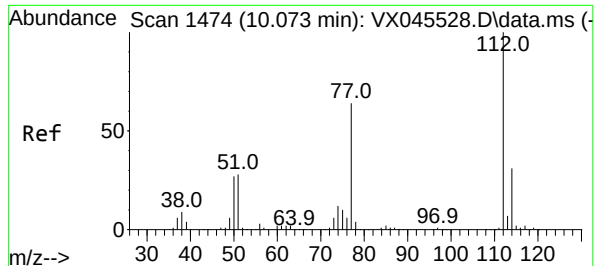
164 100

166 129.8 103.8 155.8

129 105.4 84.3 126.5

131 101.1 80.9 121.3





#65

Chlorobenzene

Concen: 50.733 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:112 Resp: 162829

Ion Ratio Lower Upper

112 100

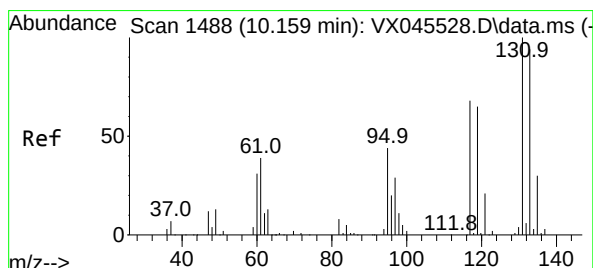
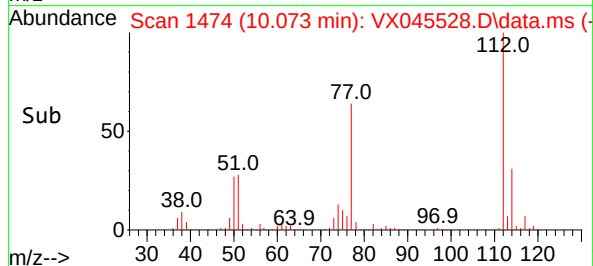
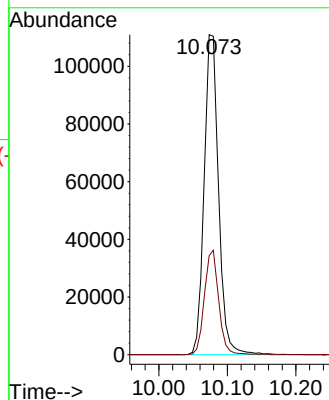
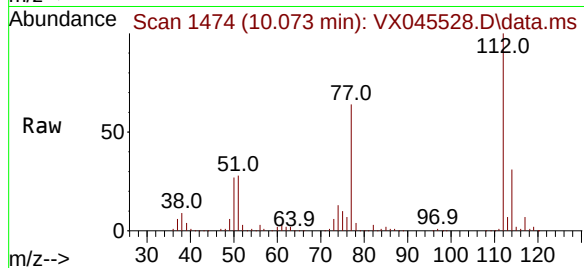
114 30.9 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 50.233 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

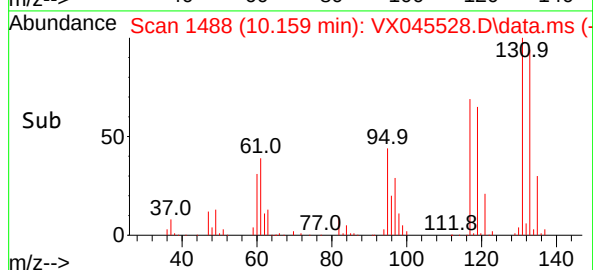
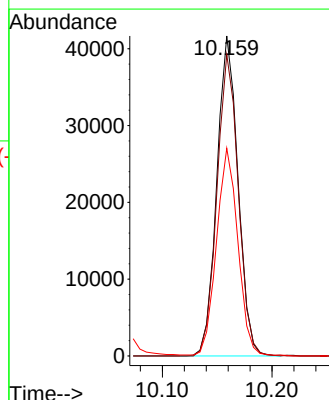
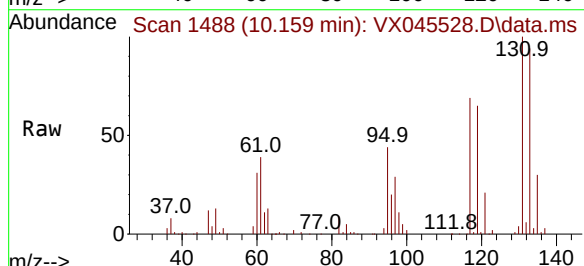
Tgt Ion:131 Resp: 55974

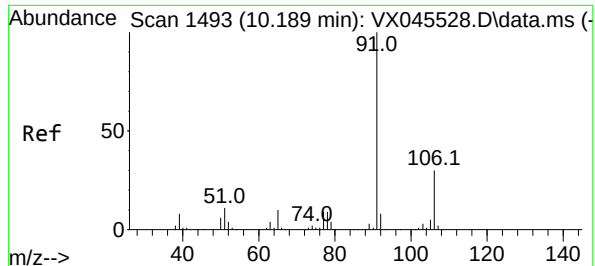
Ion Ratio Lower Upper

131 100

133 95.0 47.5 142.5

119 65.7 32.9 98.6





#67

Ethyl Benzene

Concen: 52.447 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 30148

Ion Ratio Lower Upper

91 100

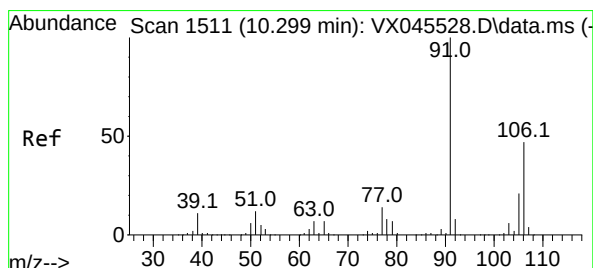
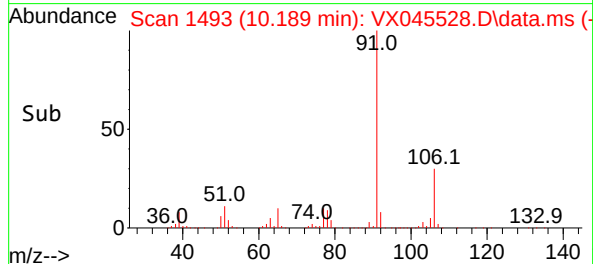
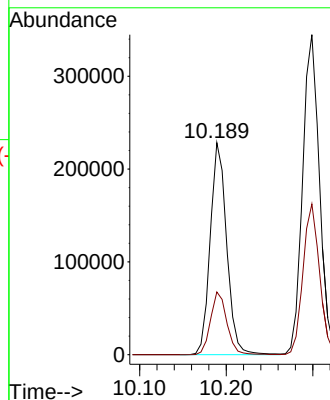
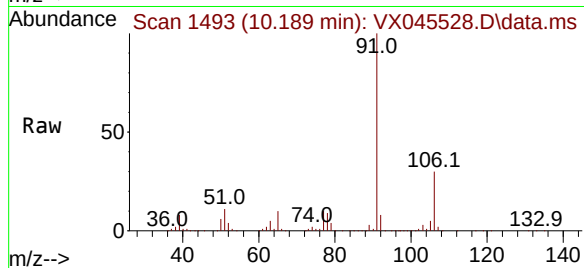
106 29.6 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#68

m/p-Xylenes

Concen: 104.606 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045528.D

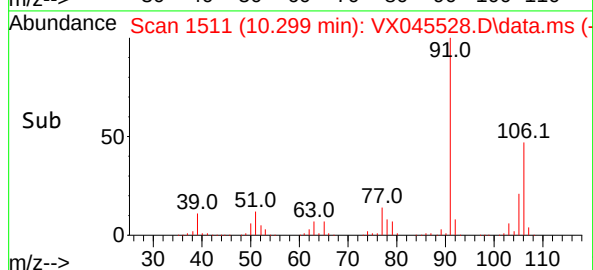
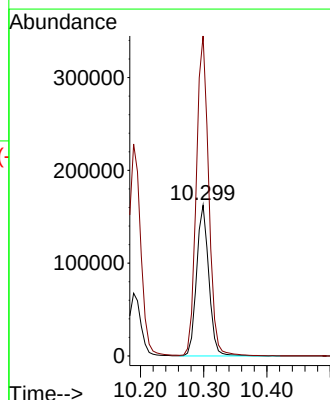
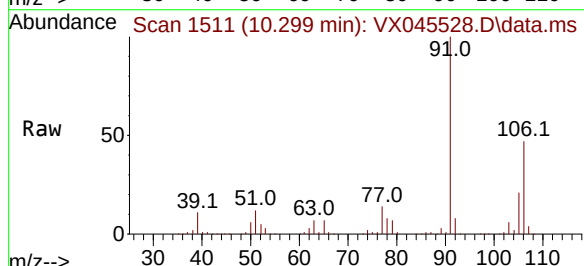
Acq: 01 Apr 2025 18:15

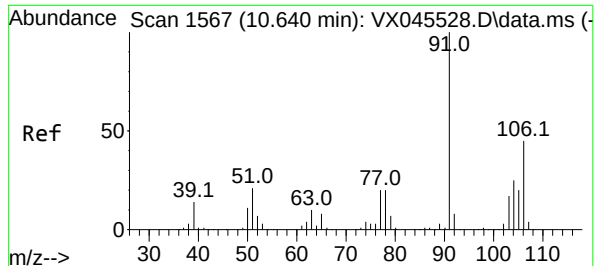
Tgt Ion:106 Resp: 218702

Ion Ratio Lower Upper

106 100

91 215.7 172.6 258.8





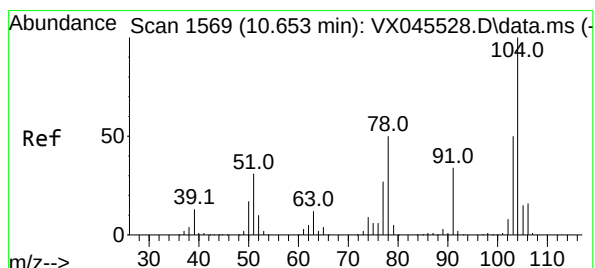
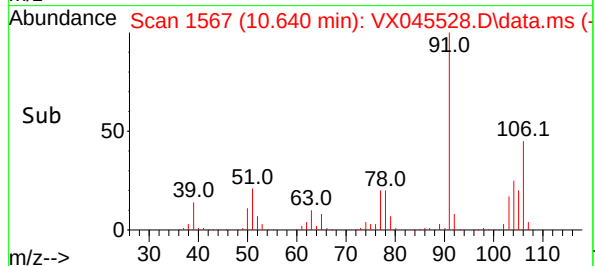
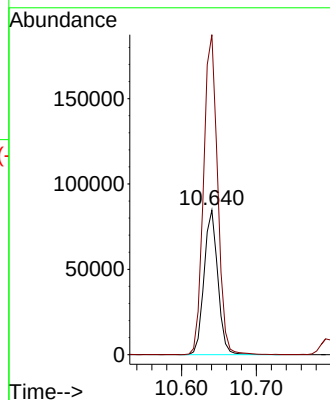
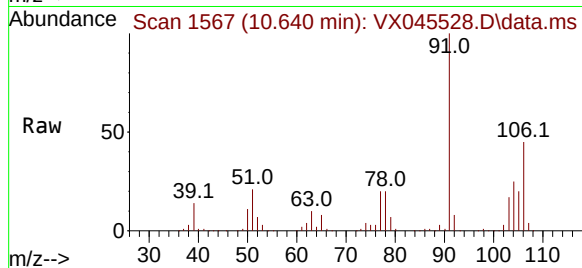
#69
o-Xylene
Concen: 52.452 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 108028
Ion Ratio Lower Upper
106 100
91 227.1 113.6 340.6

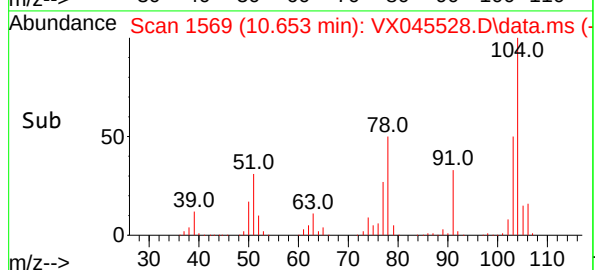
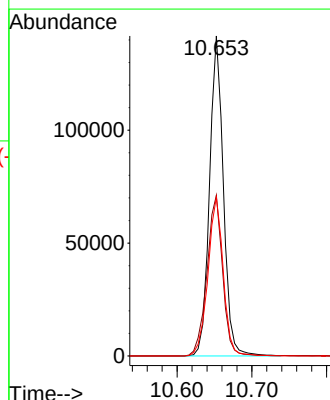
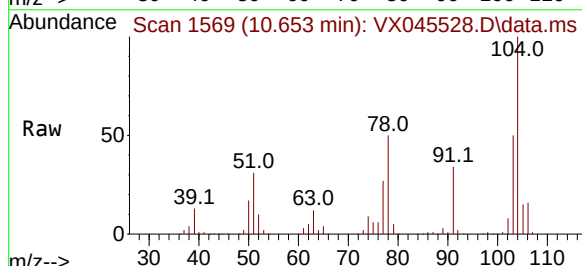
Manual Integrations
APPROVED

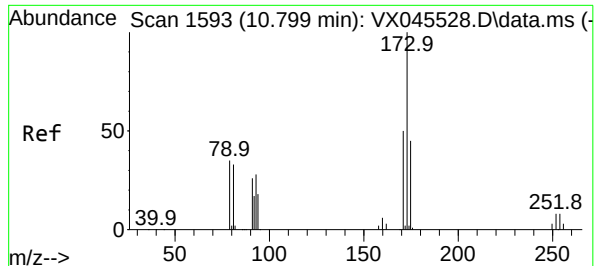
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#70
Styrene
Concen: 53.723 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

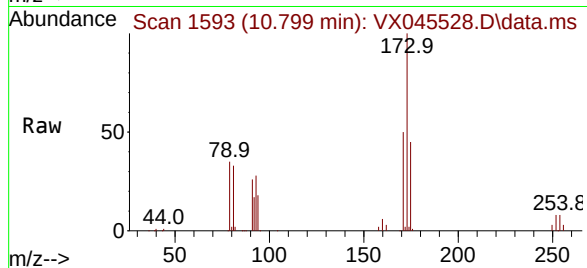
Tgt Ion:104 Resp: 182620
Ion Ratio Lower Upper
104 100
78 56.8 45.4 68.2
103 54.8 43.8 65.8





#71
Bromoform
Concen: 53.361 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

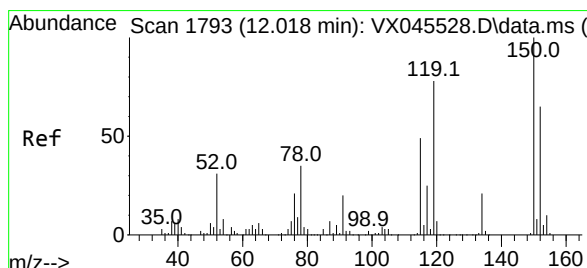
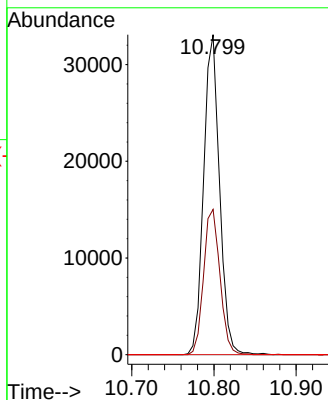
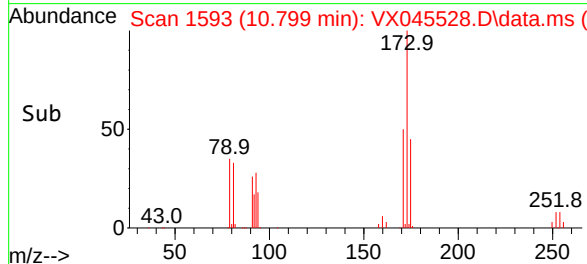
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 4439
Ion Ratio Lower Upper
173 100
175 46.8 23.4 70.2
254 0.0 0.0 0.0

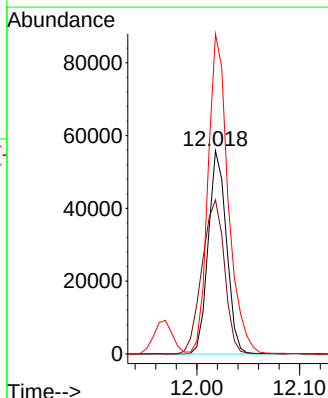
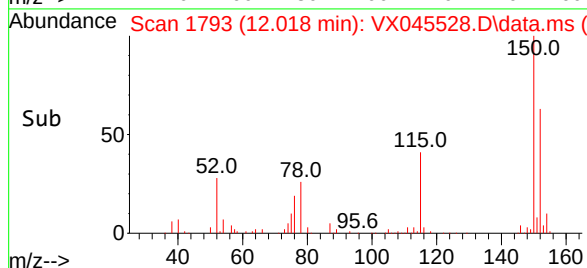
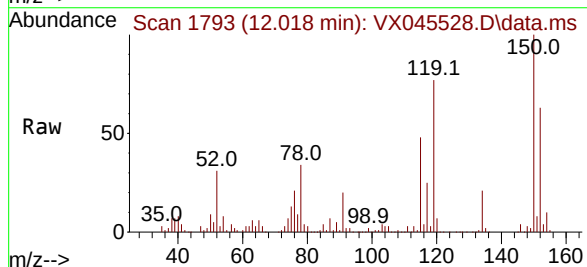
Manual Integrations
APPROVED

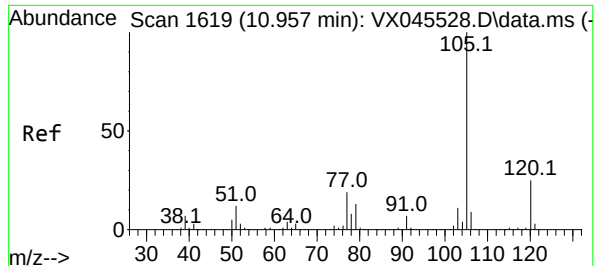
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:152 Resp: 68786
Ion Ratio Lower Upper
152 100
115 93.8 46.9 140.7
150 174.7 0.0 349.4





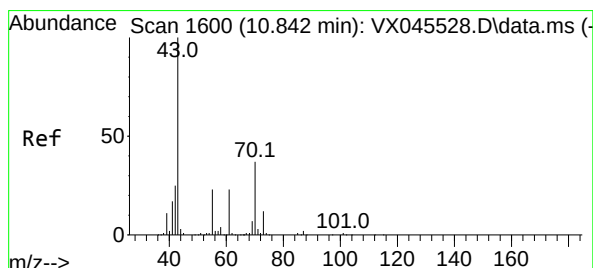
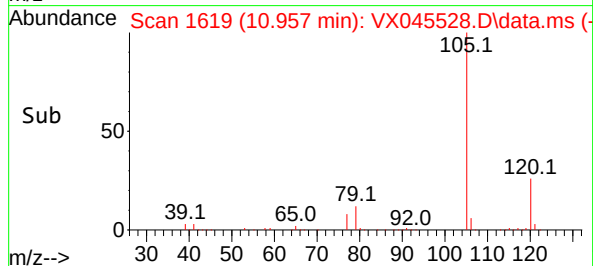
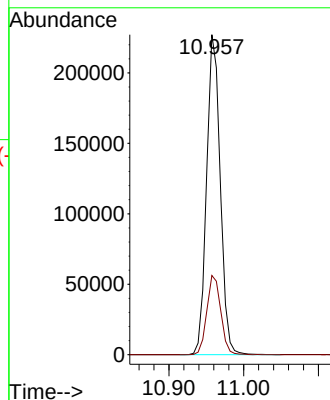
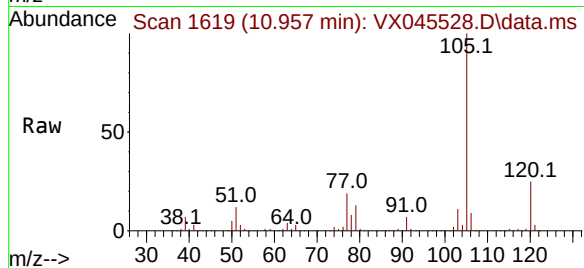
#73
Isopropylbenzene
Concen: 52.203 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 287628
Ion Ratio Lower Upper
105 100
120 25.3 12.7 38.0

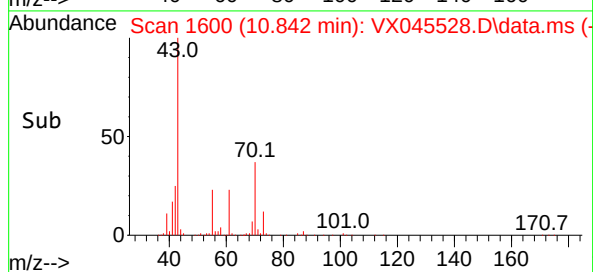
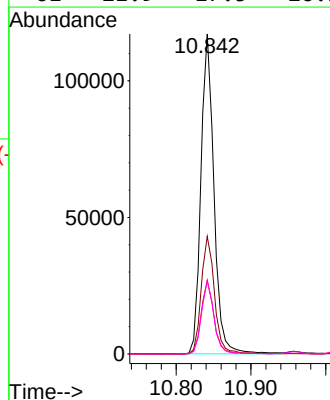
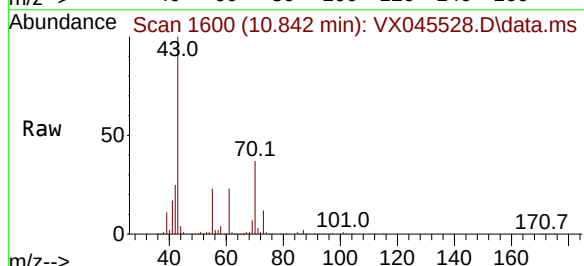
Manual Integrations
APPROVED

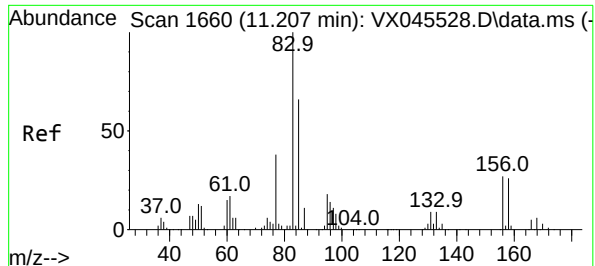
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#74
N-ethyl acetate
Concen: 53.721 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 43 Resp: 141589
Ion Ratio Lower Upper
43 100
70 37.6 30.1 45.1
55 22.9 18.3 27.5
61 21.9 17.5 26.3





#75

1,1,2,2-Tetrachloroethane

Concen: 49.185 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

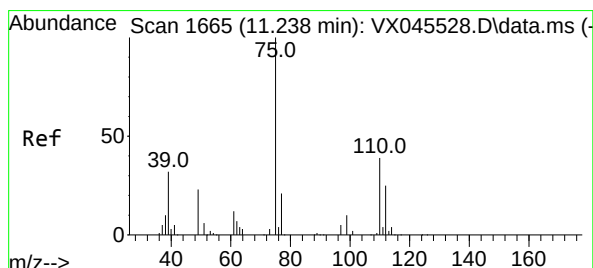
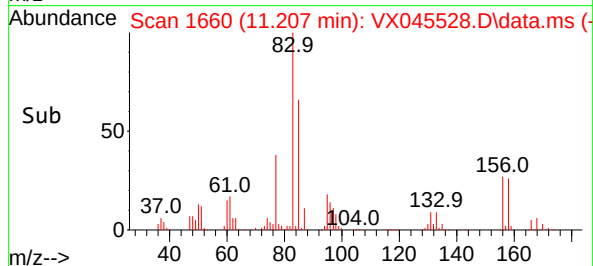
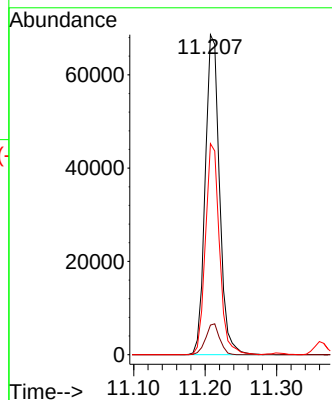
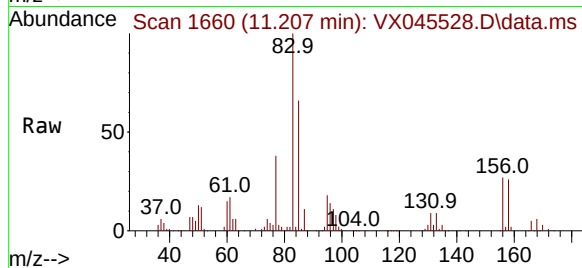
Tgt Ion:	83	Resp:	95200
Ion	Ratio	Lower	Upper
83	100		
131	9.4	4.7	14.1
85	64.8	32.4	97.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#76

1,2,3-Trichloropropane

Concen: 50.230 ug/l m

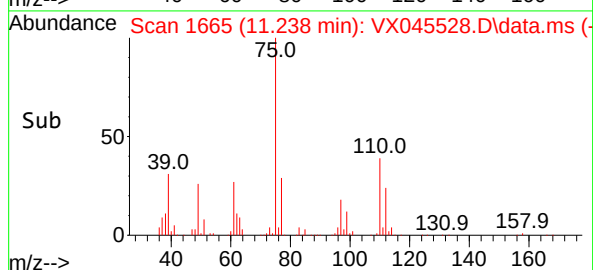
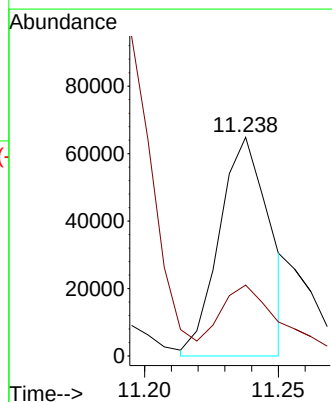
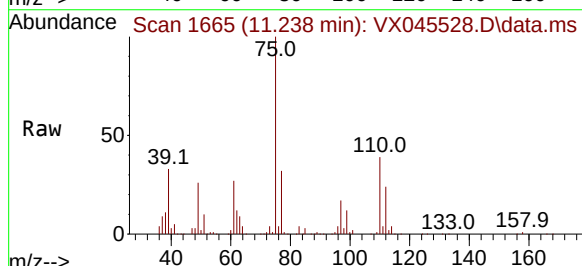
RT: 11.238 min Scan# 1665

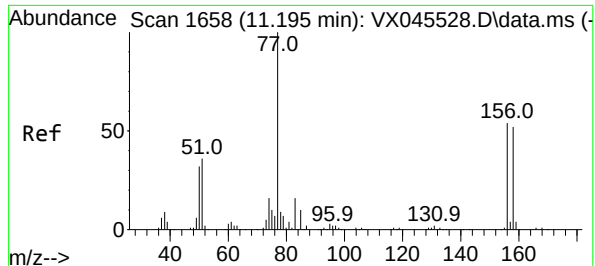
Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

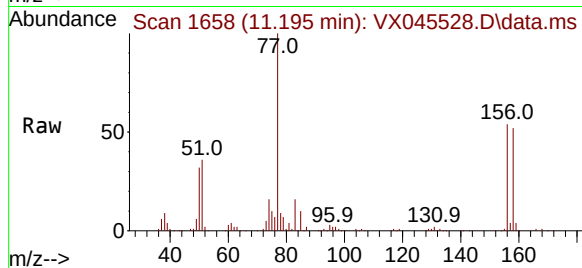
Tgt Ion:	75	Resp:	84279
Ion	Ratio	Lower	Upper
75	100		
77	39.9	20.0	59.9





#77
Bromobenzene
Concen: 50.686 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

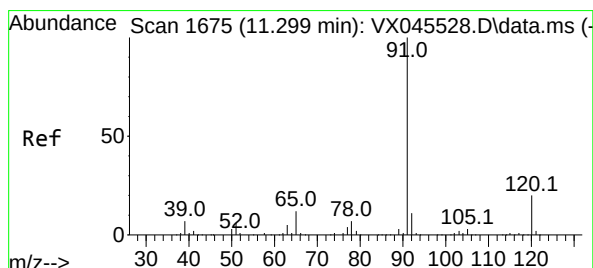
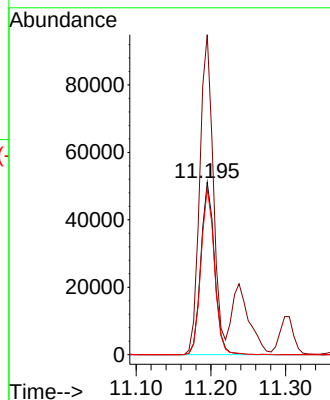
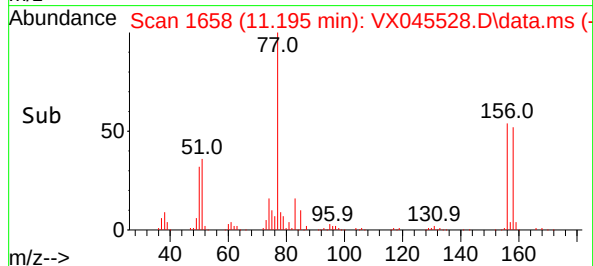
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



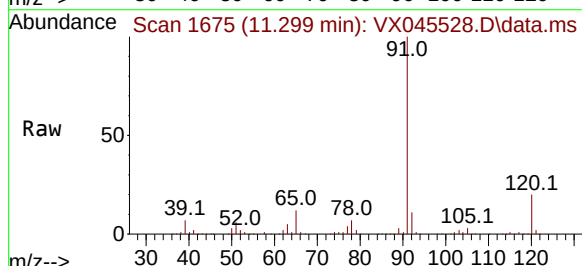
Tgt Ion: 156 Resp: 6452
Ion Ratio Lower Upper
156 100
77 185.2 92.6 277.8
158 96.3 48.1 144.4

Manual Integrations
APPROVED

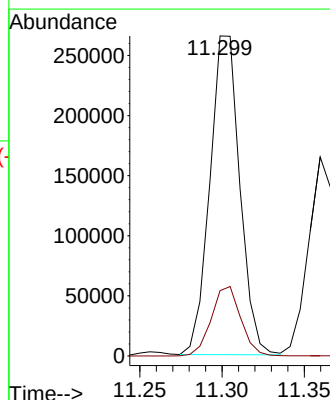
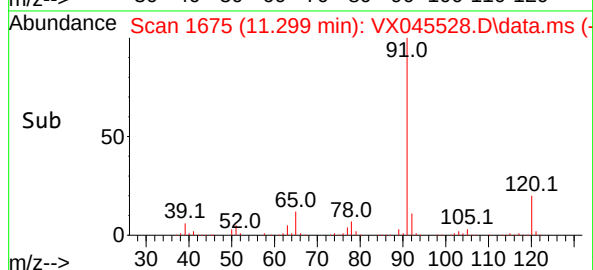
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

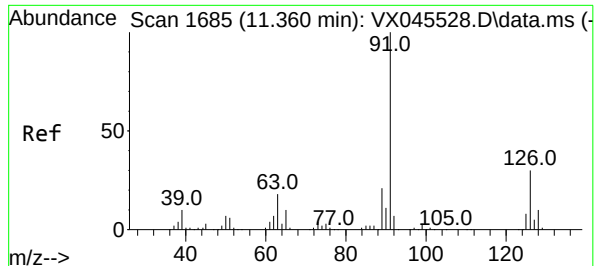


#78
n-propylbenzene
Concen: 53.069 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15



Tgt Ion: 91 Resp: 336796
Ion Ratio Lower Upper
91 100
120 21.5 10.8 32.3





#79

2-Chlorotoluene

Concen: 50.279 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 203994

Ion Ratio Lower Upper

91 100

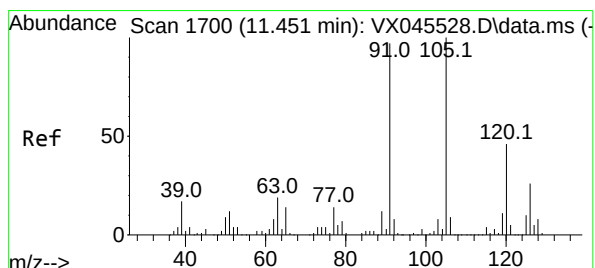
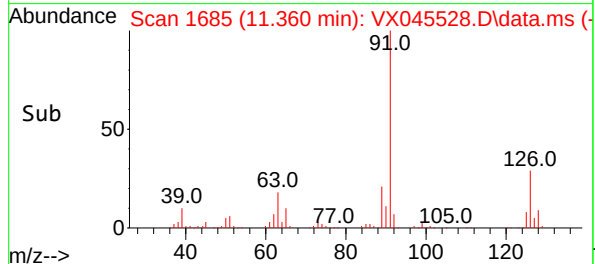
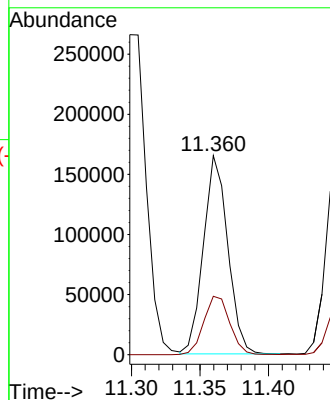
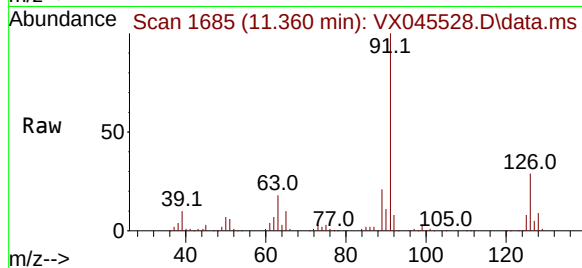
126 31.6 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#80

1,3,5-Trimethylbenzene

Concen: 53.013 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045528.D

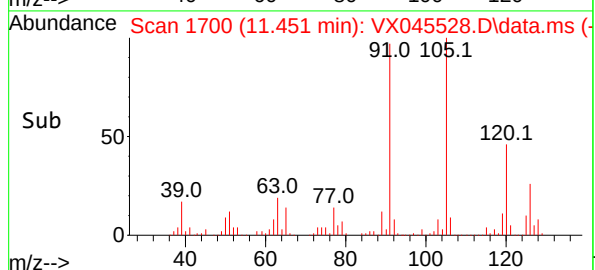
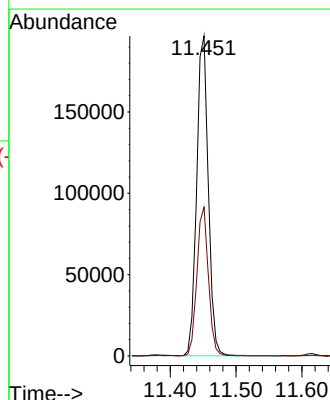
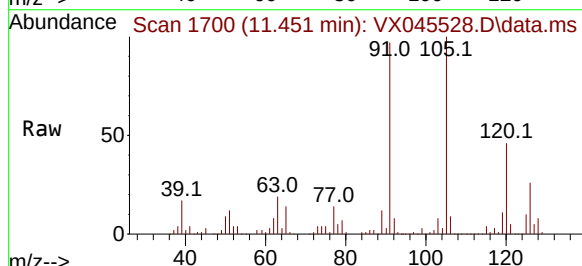
Acq: 01 Apr 2025 18:15

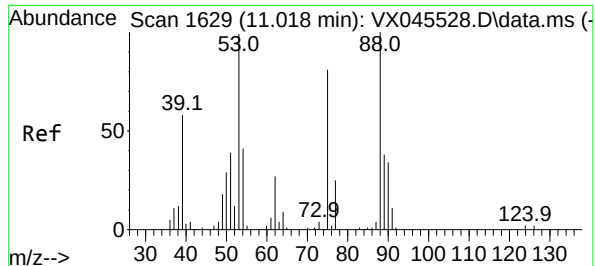
Tgt Ion:105 Resp: 241536

Ion Ratio Lower Upper

105 100

120 46.0 23.0 69.0





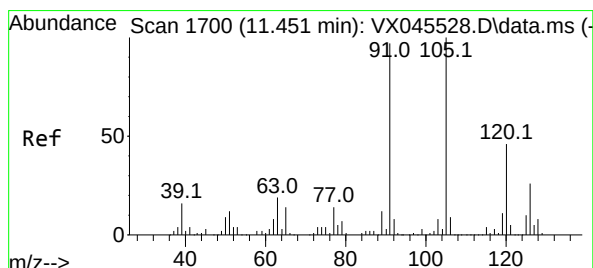
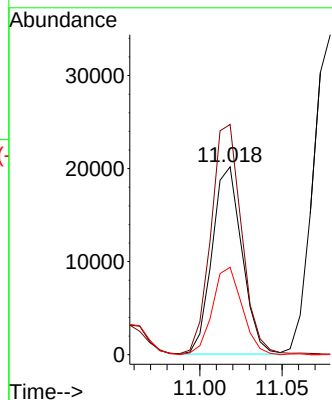
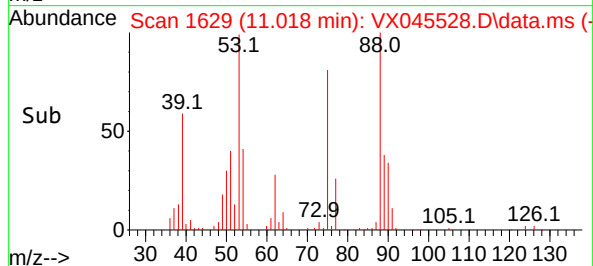
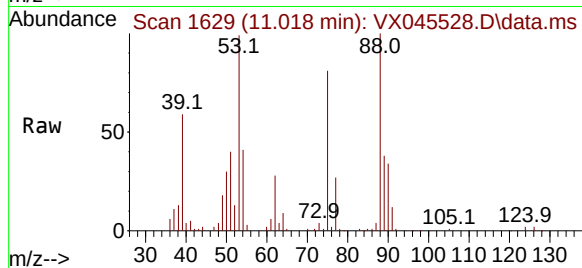
#81
trans-1,4-Dichloro-2-butene
Concen: 51.556 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 25488
Ion Ratio Lower Upper
75 100
53 127.2 101.8 152.6
89 46.5 37.2 55.8

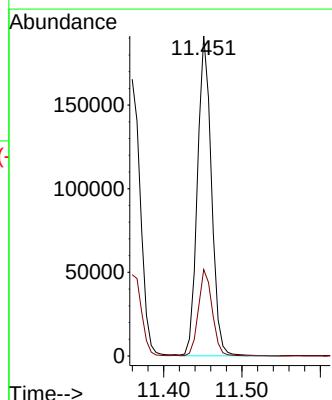
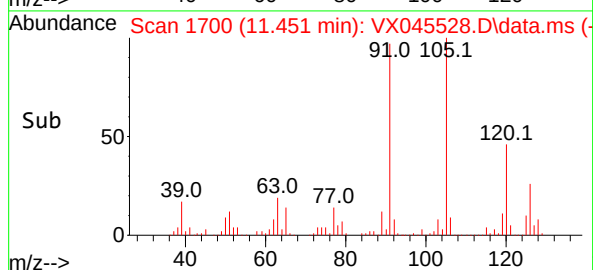
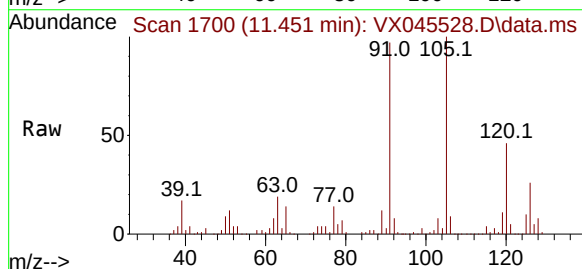
Manual Integrations
APPROVED

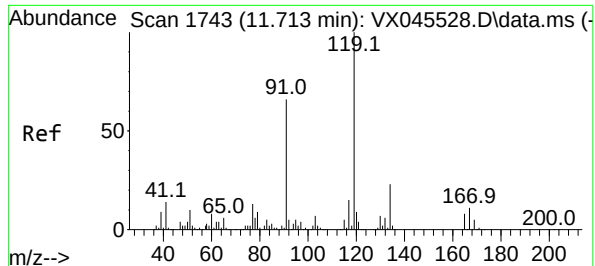
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#82
4-Chlorotoluene
Concen: 52.439 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 91 Resp: 237213
Ion Ratio Lower Upper
91 100
126 26.6 13.3 39.9





#83

tert-Butylbenzene

Concen: 52.256 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 23571

Ion Ratio Lower Upper

119 100

91 64.8 32.4 97.2

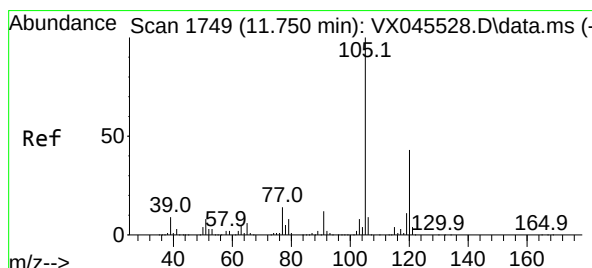
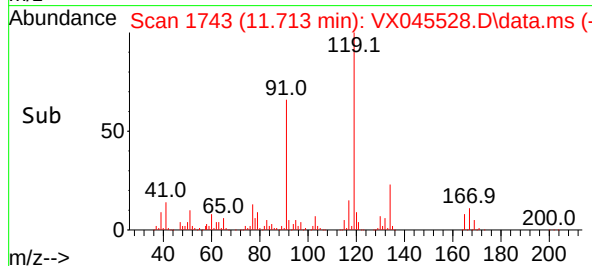
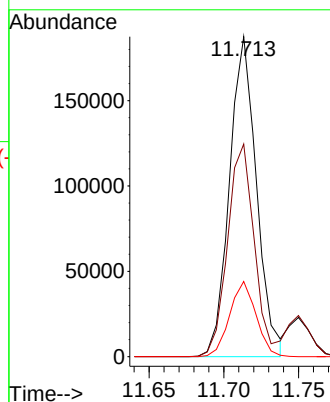
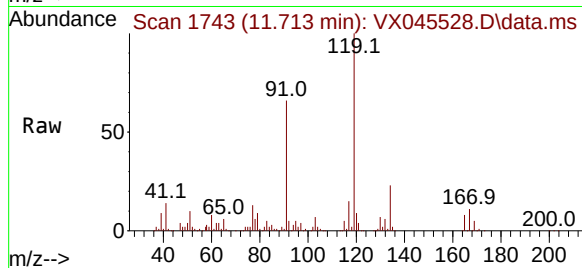
134 23.0 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.986 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX045528.D

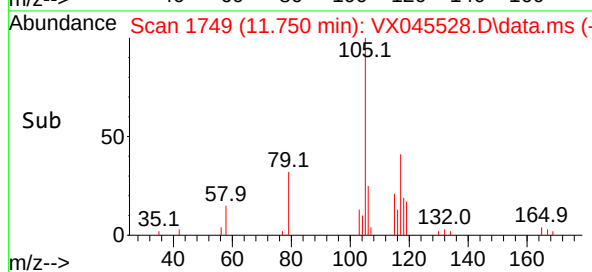
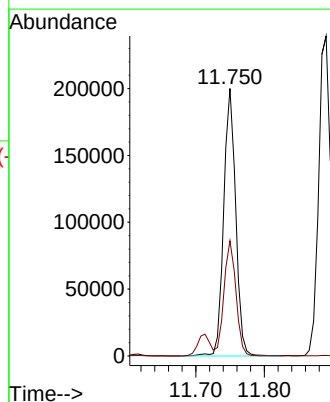
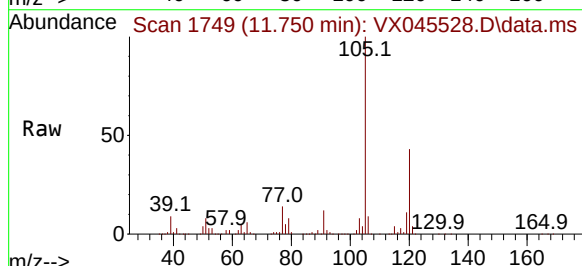
Acq: 01 Apr 2025 18:15

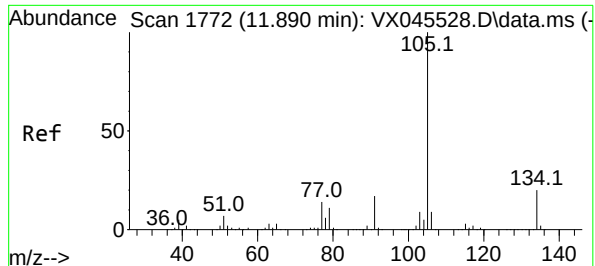
Tgt Ion:105 Resp: 242301

Ion Ratio Lower Upper

105 100

120 42.9 21.4 64.3





#85

sec-Butylbenzene

Concen: 53.391 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:105 Resp: 295799

Ion Ratio Lower Upper

105 100

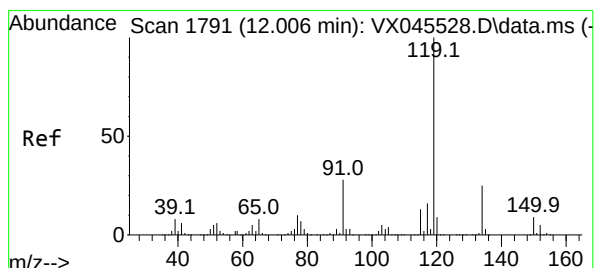
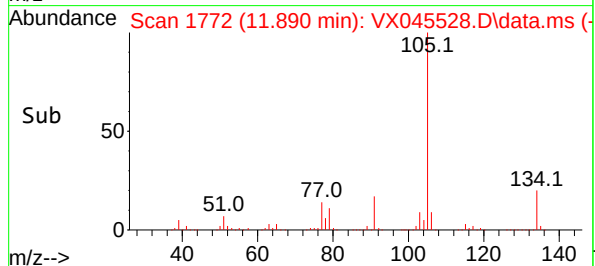
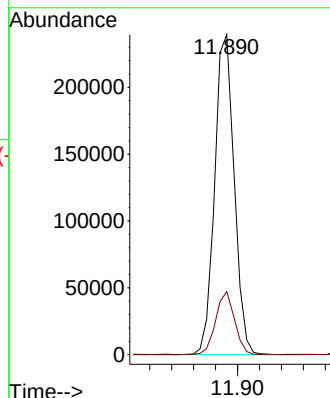
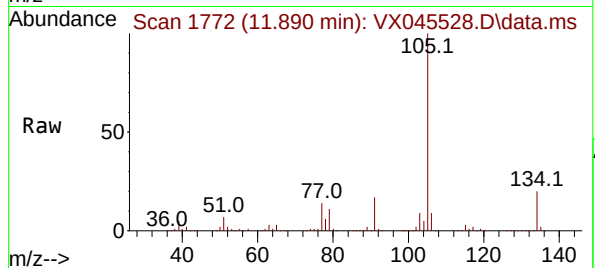
134 19.1 9.6 28.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#86

p-Isopropyltoluene

Concen: 53.073 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

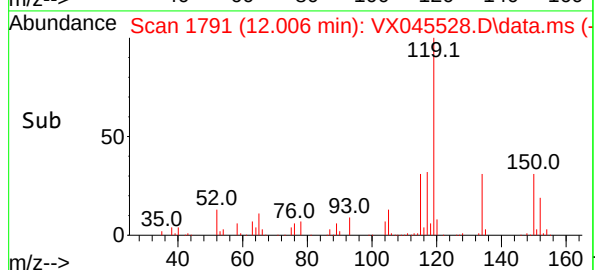
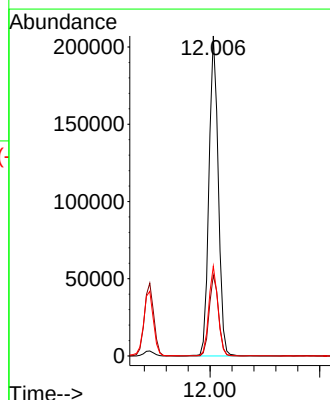
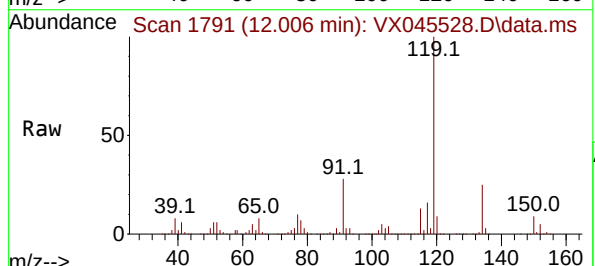
Tgt Ion:119 Resp: 242416

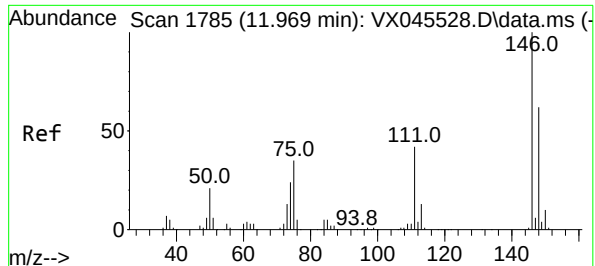
Ion Ratio Lower Upper

119 100

134 25.2 12.6 37.8

91 27.4 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 50.441 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 116890

Ion Ratio Lower Upper

146 100

111 44.4 22.2 66.6

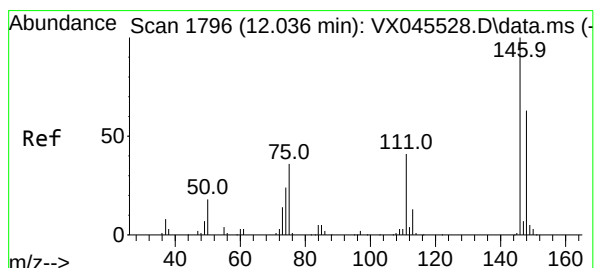
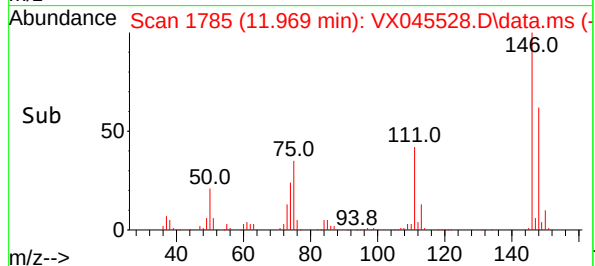
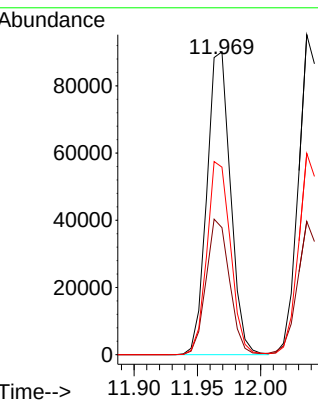
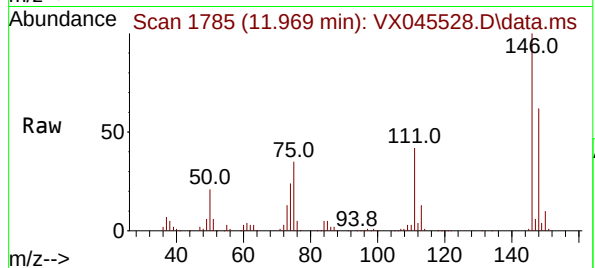
148 63.8 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 49.871 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

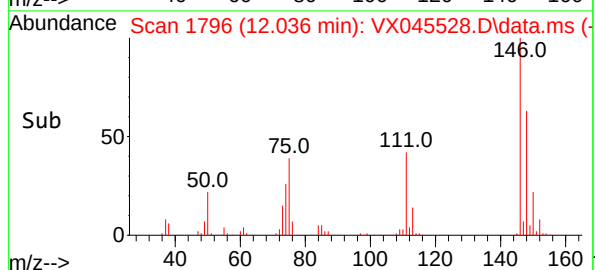
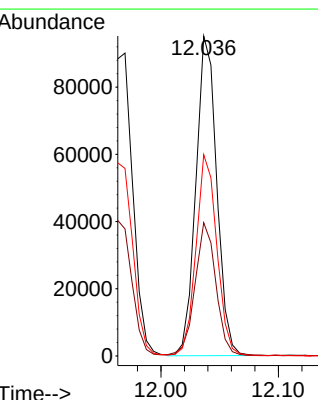
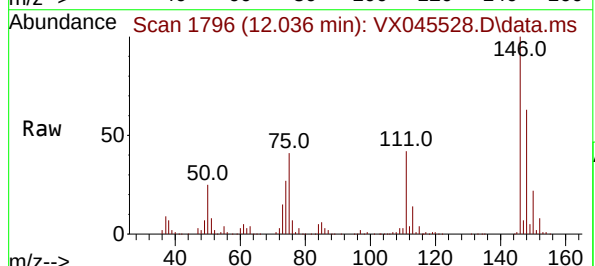
Tgt Ion:146 Resp: 117164

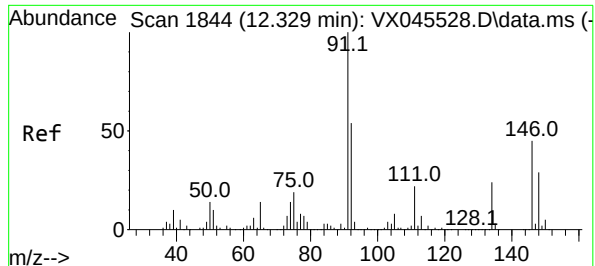
Ion Ratio Lower Upper

146 100

111 41.9 20.9 62.8

148 63.0 31.5 94.5





#89

n-Butylbenzene

Concen: 54.874 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 21734

Ion Ratio Lower Upper

91 100

92 53.7 26.9 80.6

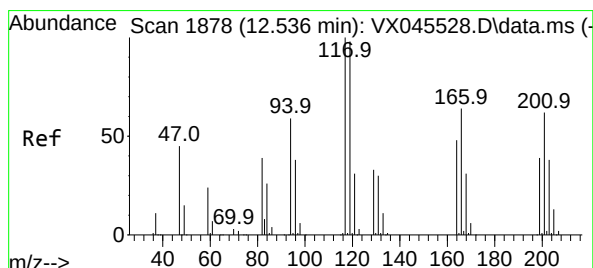
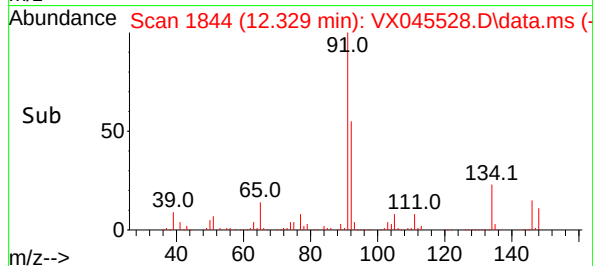
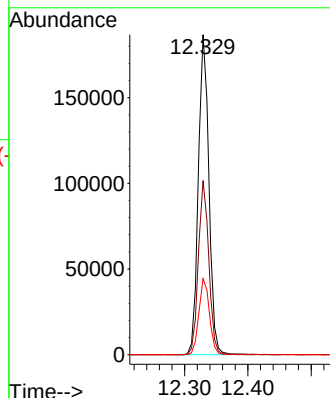
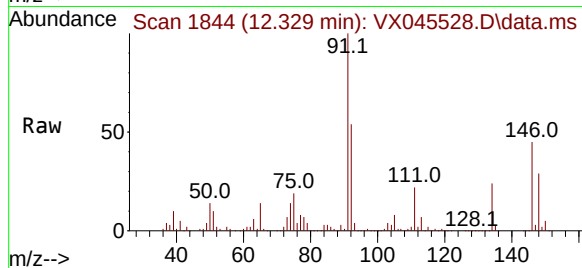
134 23.8 11.9 35.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 52.352 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045528.D

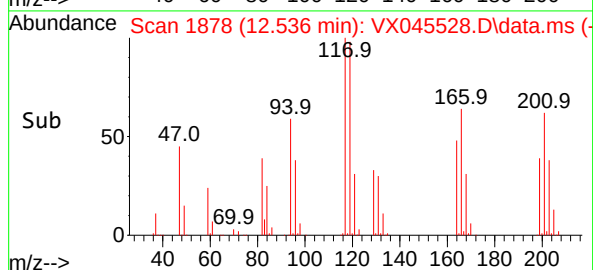
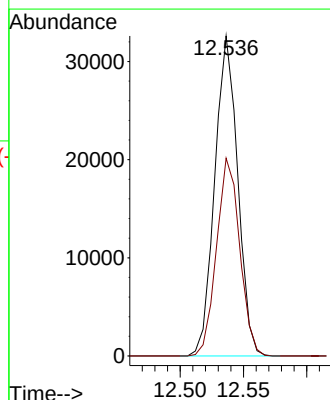
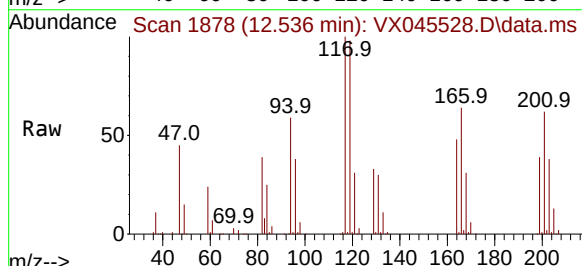
Acq: 01 Apr 2025 18:15

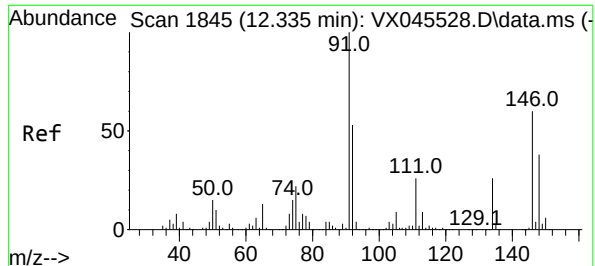
Tgt Ion:117 Resp: 41095

Ion Ratio Lower Upper

117 100

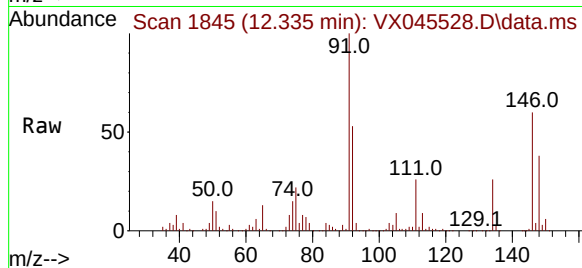
201 62.4 31.2 93.6





#91
1,2-Dichlorobenzene
Concen: 50.099 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

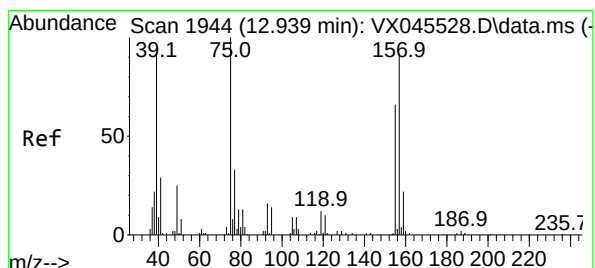
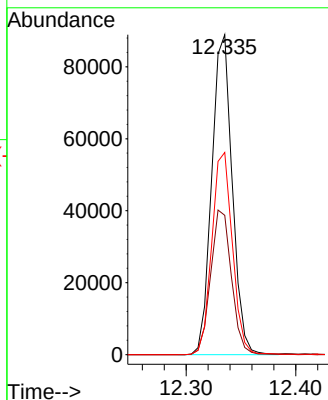
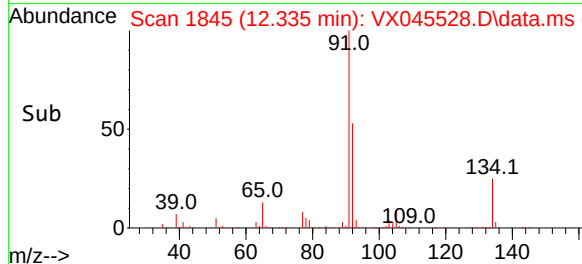
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 146 Resp: 115420
Ion Ratio Lower Upper
146 100
111 45.9 22.9 68.8
148 63.7 31.9 95.5

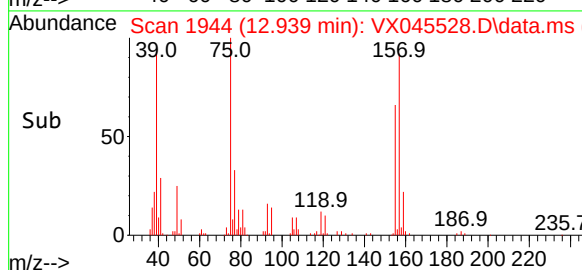
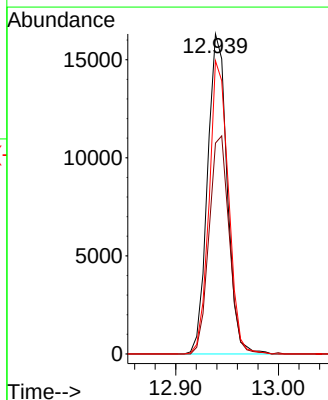
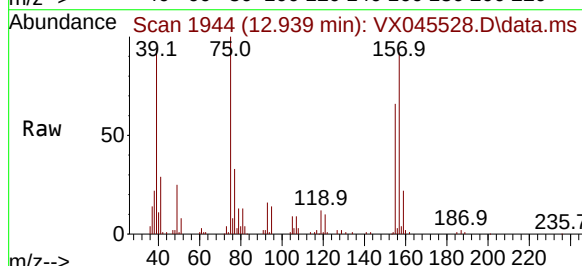
Manual Integrations
APPROVED

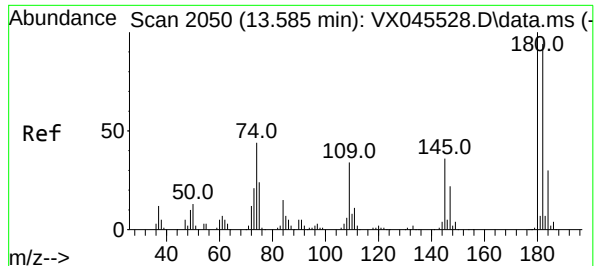
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.638 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion: 75 Resp: 21712
Ion Ratio Lower Upper
75 100
155 69.8 34.9 104.7
157 89.8 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 50.797 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

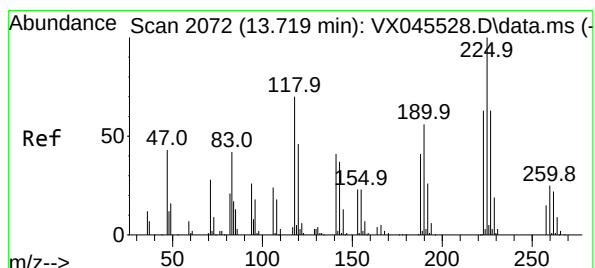
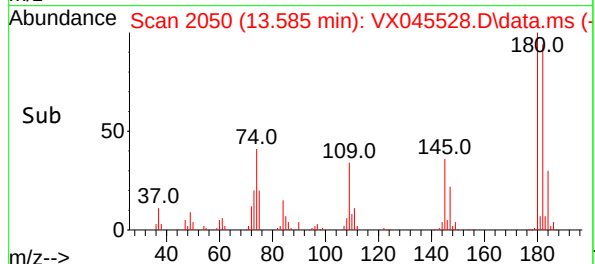
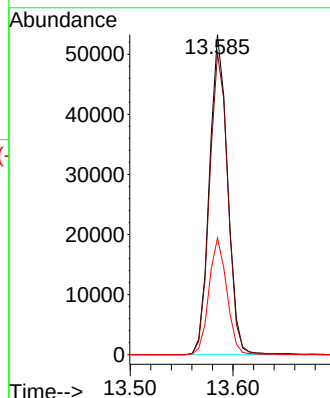
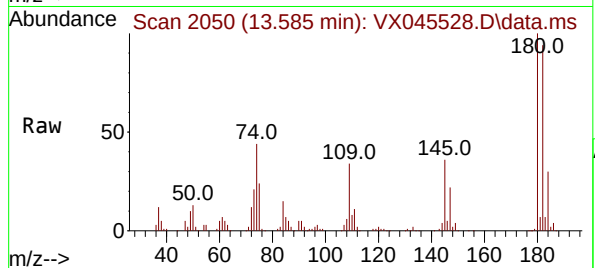
Tgt Ion:180	Resp: 6514
Ion Ratio	Lower Upper
180 100	
182 95.7	47.9 143.6
145 35.9	17.9 53.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#94

Hexachlorobutadiene

Concen: 50.296 ug/l

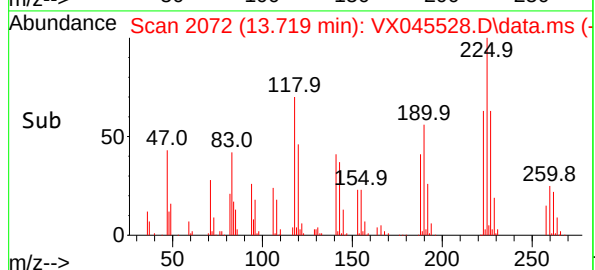
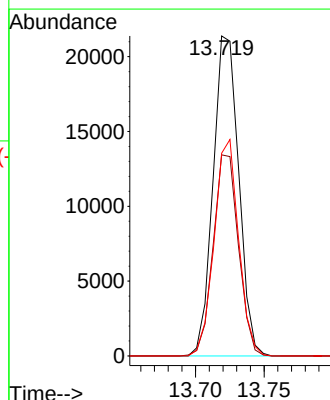
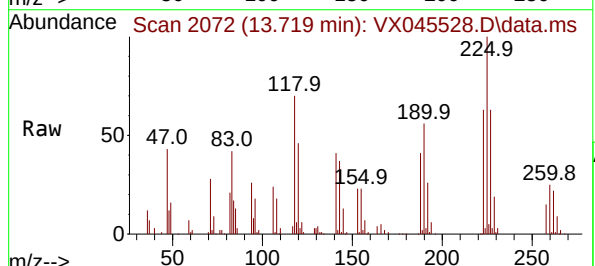
RT: 13.719 min Scan# 2072

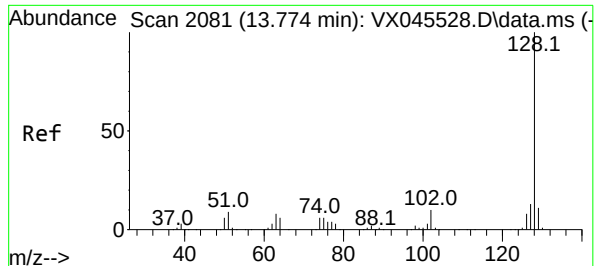
Delta R.T. 0.000 min

Lab File: VX045528.D

Acq: 01 Apr 2025 18:15

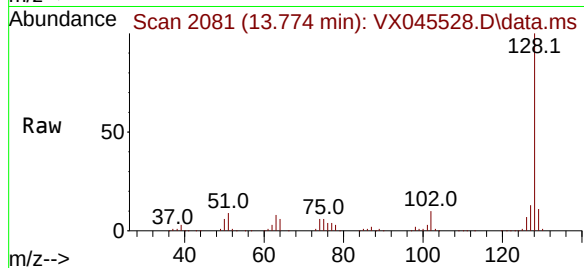
Tgt Ion:225	Resp: 27795
Ion Ratio	Lower Upper
225 100	
223 62.2	31.1 93.3
227 64.4	32.2 96.6





#95
Naphthalene
Concen: 53.643 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

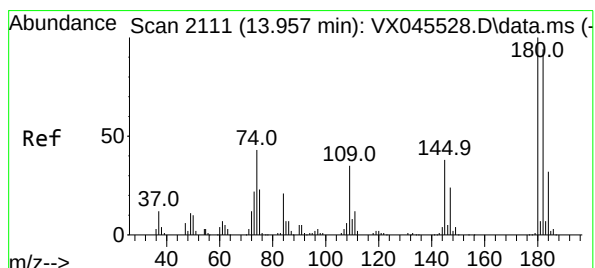
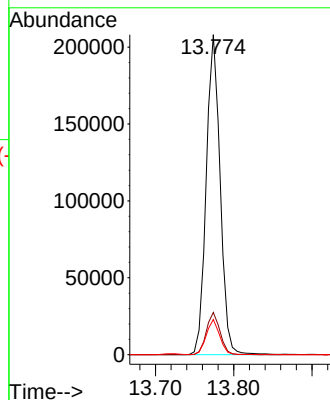
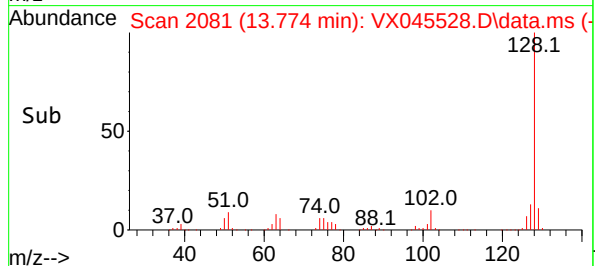
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 256009
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.7 8.6 12.8

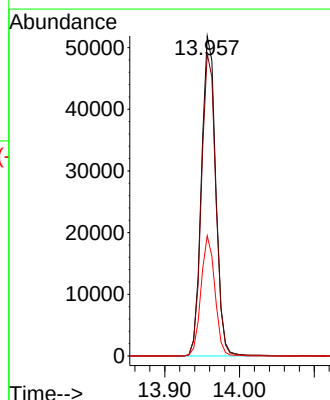
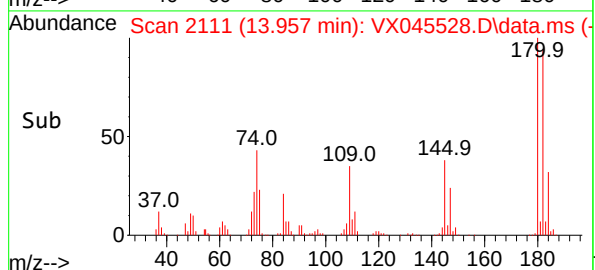
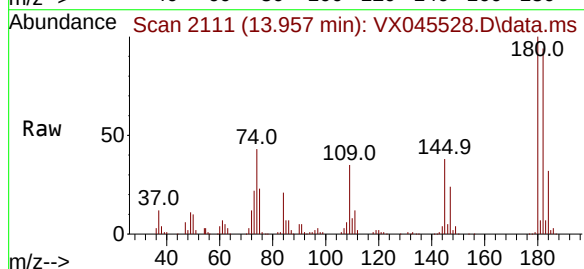
Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.219 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045528.D
Acq: 01 Apr 2025 18:15

Tgt Ion:180 Resp: 68781
Ion Ratio Lower Upper
180 100
182 94.5 47.3 141.8
145 36.4 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045529.D
 Acq On : 01 Apr 2025 18:38
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 02 02:54:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	86107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	152724	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	136369	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64612	50.000	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.946	65	155757	98.914	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 197.820%#	
35) Dibromofluoromethane	5.379	113	107908	99.585	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 199.160%#	
50) Toluene-d8	8.647	98	375599	99.309	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 198.620%#	
62) 4-Bromofluorobenzene	11.079	95	146944	106.664	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 213.320%#	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.166	85	144108	111.909	ug/l	99
3) Chloromethane	1.307	50	140360	106.098	ug/l	100
4) Vinyl Chloride	1.374	62	127174	105.042	ug/l	99
5) Bromomethane	1.593	94	58706	102.266	ug/l	98
6) Chloroethane	1.660	64	61099	95.120	ug/l	98
7) Trichlorofluoromethane	1.867	101	187555	103.887	ug/l	98
8) Diethyl Ether	2.136	74	61683	101.767	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	106989	101.133	ug/l	97
10) Methyl Iodide	2.441	142	135732	102.863	ug/l	100
11) Tert butyl alcohol	2.989	59	110044	519.999	ug/l	99
12) 1,1-Dichloroethene	2.306	96	106404	102.934	ug/l	99
13) Acrolein	2.233	56	146268	501.914	ug/l	99
14) Allyl chloride	2.654	41	206484	105.276	ug/l	99
15) Acrylonitrile	3.062	53	338970	507.426	ug/l	99
16) Acetone	2.386	43	314285	486.054	ug/l	100
17) Carbon Disulfide	2.502	76	276285	108.215	ug/l	100
18) Methyl Acetate	2.703	43	147272	98.925	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	381719	105.561	ug/l	99
20) Methylene Chloride	2.782	84	121435	100.316	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	106896	101.220	ug/l	98
22) Diisopropyl ether	3.757	45	406185	105.132	ug/l	95
23) Vinyl Acetate	3.721	43	1848817	553.853	ug/l	99
24) 1,1-Dichloroethane	3.605	63	220934	101.114	ug/l	100
25) 2-Butanone	4.556	43	491249	519.018	ug/l	100
26) 2,2-Dichloropropane	4.465	77	155592	110.215	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	129785	100.871	ug/l	98
28) Bromochloromethane	4.891	49	105093	99.530	ug/l	100
29) Tetrahydrofuran	5.001	42	313121	510.264	ug/l	99
30) Chloroform	5.086	83	225402	100.255	ug/l	99
31) Cyclohexane	5.458	56	197136	102.056	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	198511	104.346	ug/l	99
36) 1,1-Dichloropropene	5.684	75	151448	103.515	ug/l	99
37) Ethyl Acetate	4.715	43	192130	104.207	ug/l	99
38) Carbon Tetrachloride	5.672	117	166465	105.278	ug/l	99
39) Methylcyclohexane	7.373	83	191752	106.921	ug/l	99
40) Benzene	6.031	78	452946	101.369	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045529.D
 Acq On : 01 Apr 2025 18:38
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 02 02:54:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	107037	109.068	ug/l	99
42) 1,2-Dichloroethane	6.080	62	189528	102.696	ug/l	100
43) Isopropyl Acetate	6.336	43	305974	109.494	ug/l	100
44) Trichloroethene	7.123	130	107332	101.062	ug/l	97
45) 1,2-Dichloropropane	7.421	63	115731	103.806	ug/l	98
46) Dibromomethane	7.574	93	87381	102.101	ug/l	97
47) Bromodichloromethane	7.818	83	179265	104.886	ug/l	98
48) Methyl methacrylate	7.690	41	158241	109.675	ug/l	99
49) 1,4-Dioxane	7.665	88	52624	2015.906	ug/l	97
51) 4-Methyl-2-Pentanone	8.574	43	988881	533.814	ug/l	99
52) Toluene	8.714	92	276323	102.199	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	169413	100.645	ug/l	100
54) cis-1,3-Dichloropropene	8.366	75	182328	113.521	ug/l	99
55) 1,1,2-Trichloroethane	9.147	97	109208	101.361	ug/l	98
56) Ethyl methacrylate	9.116	69	192034	115.168	ug/l	99
57) 1,3-Dichloropropane	9.305	76	192473	102.588	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	460297	545.696	ug/l	100
59) 2-Hexanone	9.427	43	738772	538.538	ug/l	99
60) Dibromochloromethane	9.519	129	128700	109.570	ug/l	98
61) 1,2-Dibromoethane	9.604	107	115919	106.282	ug/l	99
64) Tetrachloroethene	9.269	164	90817	94.325	ug/l	99
65) Chlorobenzene	10.073	112	296300	101.682	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	103437	102.243	ug/l	99
67) Ethyl Benzene	10.189	91	543568	104.152	ug/l	99
68) m/p-Xylenes	10.299	106	394241	207.694	ug/l	100
69) o-Xylene	10.640	106	195381	104.487	ug/l	99
70) Styrene	10.653	104	335333	108.654	ug/l	100
71) Bromoform	10.799	173	83632	110.714	ug/l #	97
73) Isopropylbenzene	10.957	105	522436	100.944	ug/l	100
74) N-amyl acetate	10.842	43	275462	111.267	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	174977	96.243	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	154048m	97.744	ug/l	
77) Bromobenzene	11.195	156	119561	99.983	ug/l	99
78) n-propylbenzene	11.299	91	622679	104.454	ug/l	100
79) 2-Chlorotoluene	11.360	91	376682	98.840	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	435137	101.675	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	51873	111.704	ug/l	95
82) 4-Chlorotoluene	11.451	91	432884	101.877	ug/l	99
83) tert-Butylbenzene	11.713	119	437649	103.292	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	444211	103.414	ug/l	99
85) sec-Butylbenzene	11.890	105	546857	105.082	ug/l	100
86) p-Isopropyltoluene	12.006	119	453109	105.609	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	221481	101.749	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	216367	98.047	ug/l	98
89) n-Butylbenzene	12.329	91	420694	113.075	ug/l	99
90) Hexachloroethane	12.536	117	80489	109.160	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	215157	99.419	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	43047	113.214	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	135046	112.106	ug/l	99
94) Hexachlorobutadiene	13.725	225	53636	103.326	ug/l	98
95) Naphthalene	13.774	128	499719	111.473	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	137328	108.869	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

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

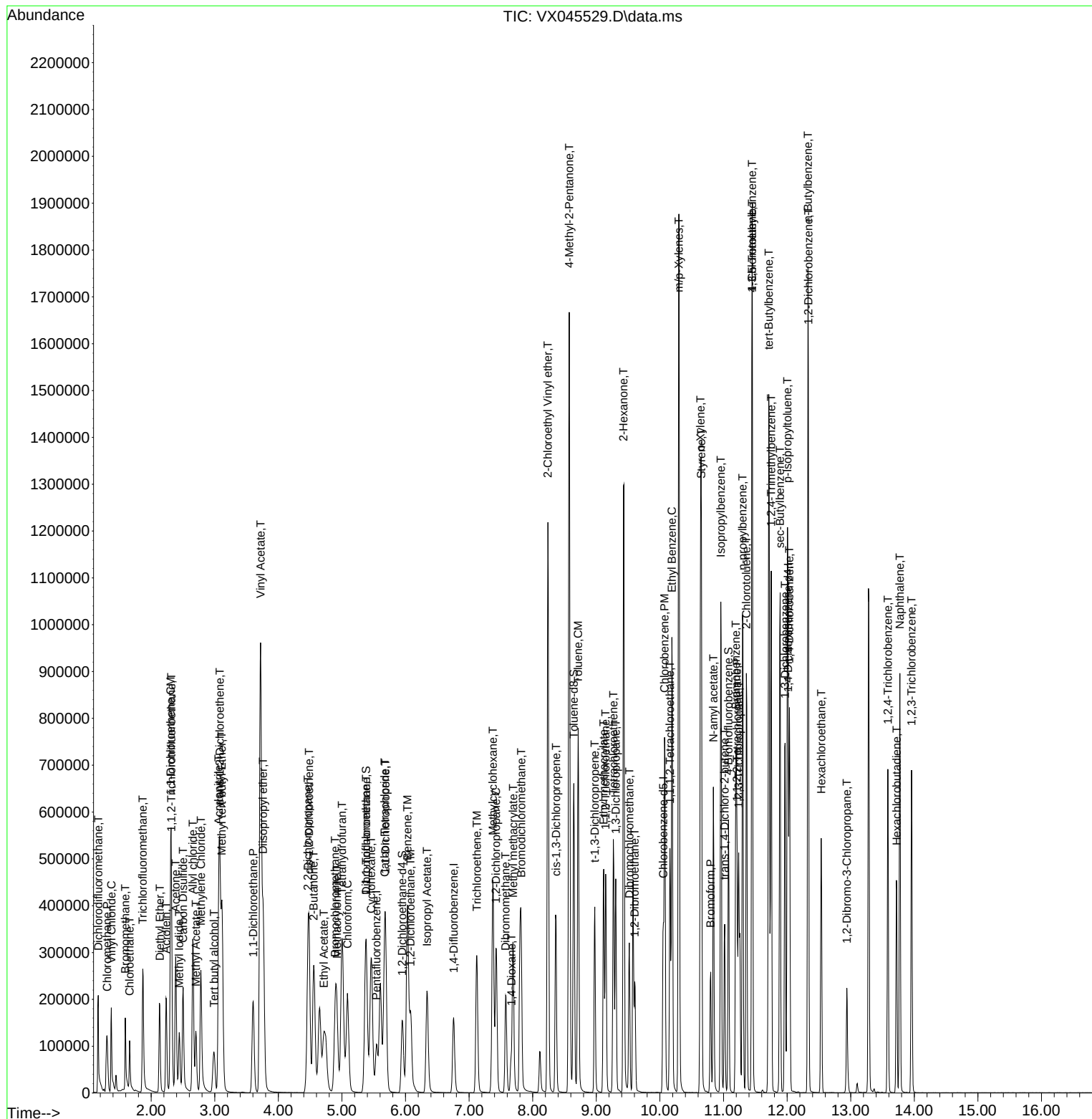
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045529.D
Acq On : 01 Apr 2025 18:38
Operator : JC/MD
Sample : VSTDIC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

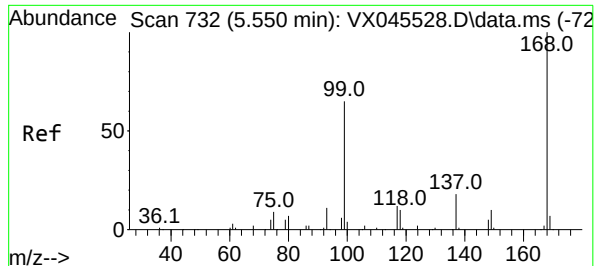
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Quant Time: Apr 02 02:54:00 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025





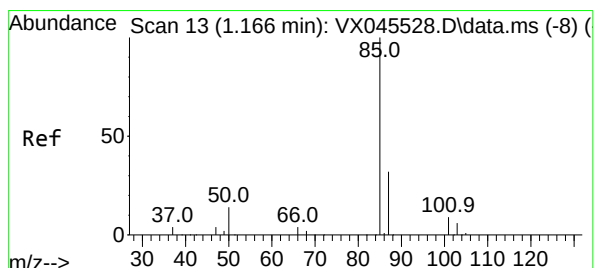
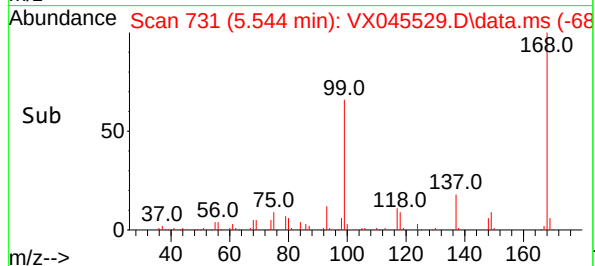
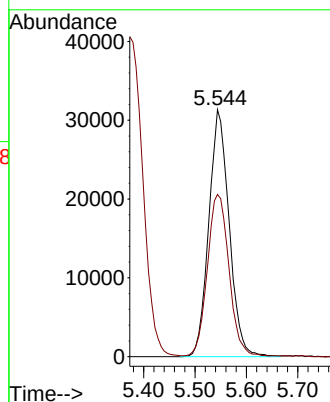
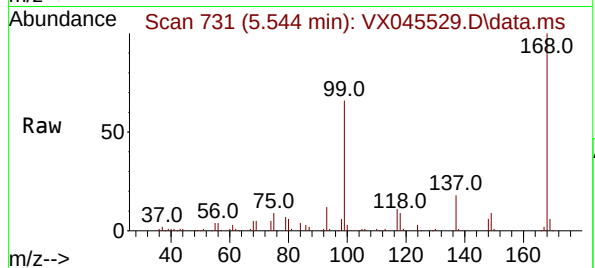
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:168 Resp: 8610
Ion Ratio Lower Upper
168 100
99 65.3 52.3 78.5

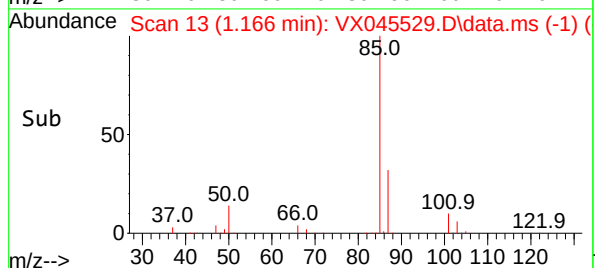
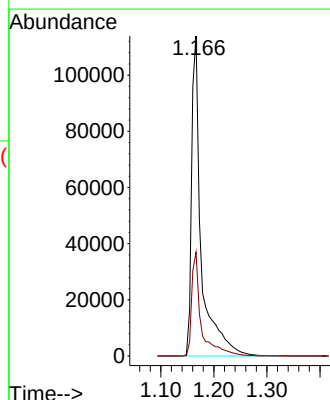
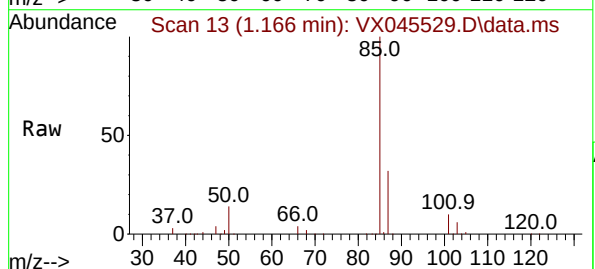
Manual Integrations
APPROVED

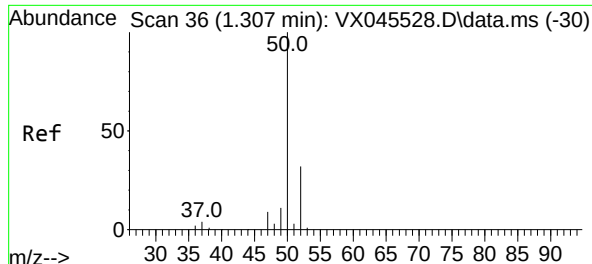
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 111.909 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 85 Resp: 144108
Ion Ratio Lower Upper
85 100
87 32.4 16.1 48.2





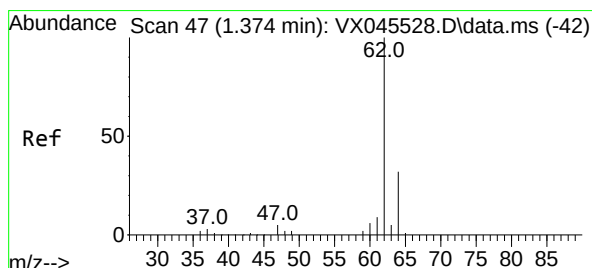
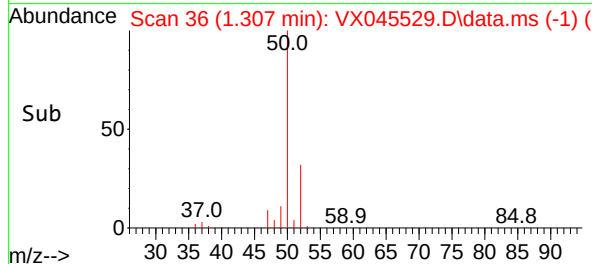
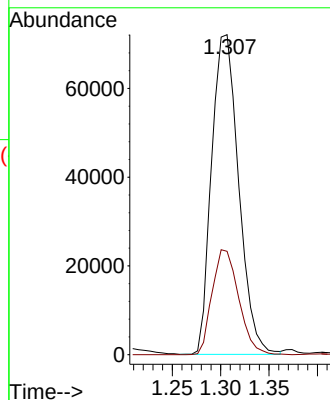
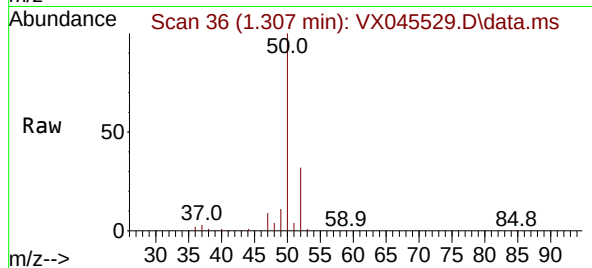
#3
Chloromethane
Concen: 106.098 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 50 Resp: 140360
Ion Ratio Lower Upper
50 100
52 32.4 25.9 38.9

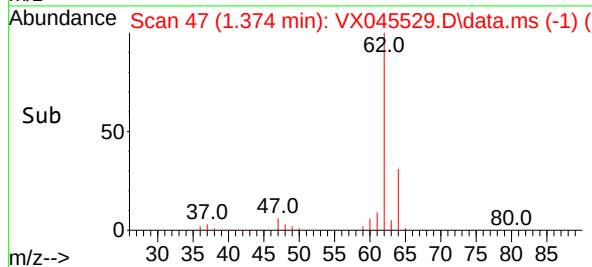
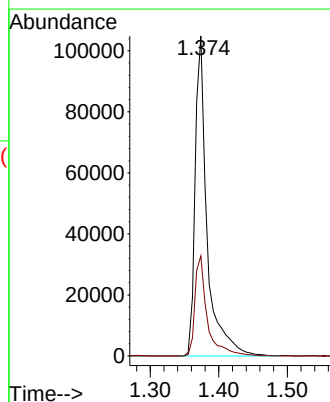
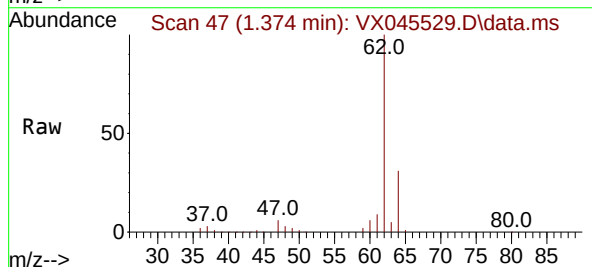
Manual Integrations
APPROVED

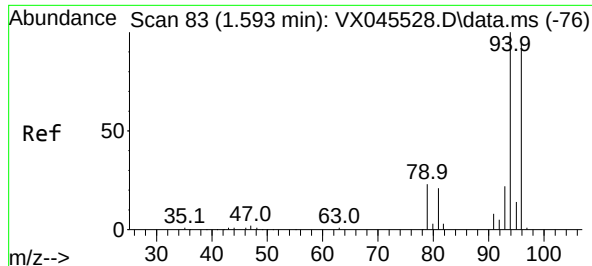
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 105.042 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 62 Resp: 127174
Ion Ratio Lower Upper
62 100
64 31.2 25.5 38.3





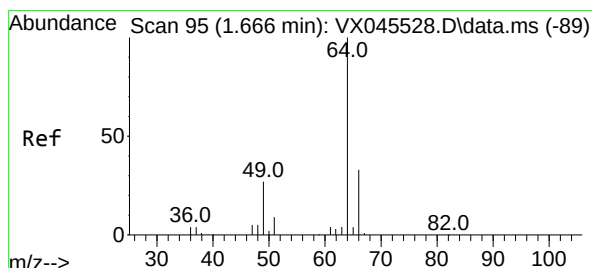
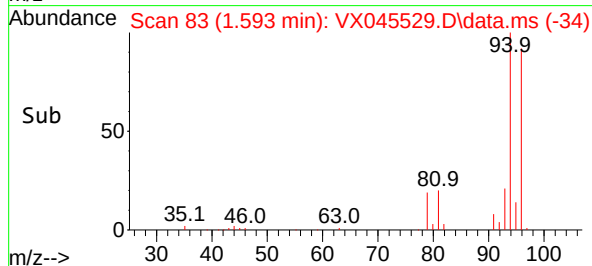
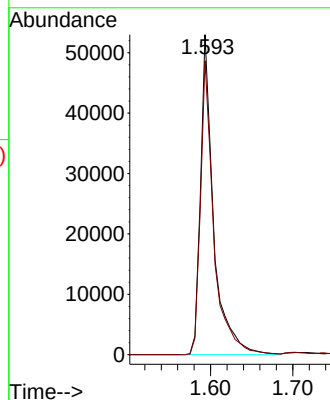
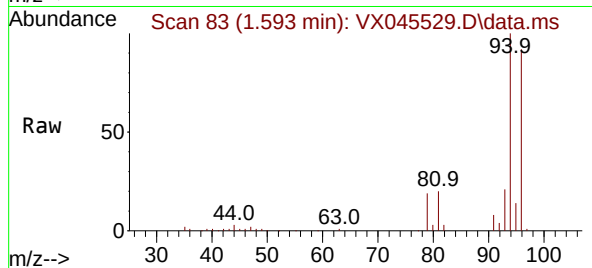
#5
Bromomethane
Concen: 102.266 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 94 Resp: 58700
Ion Ratio Lower Upper
94 100
96 91.9 74.8 112.2

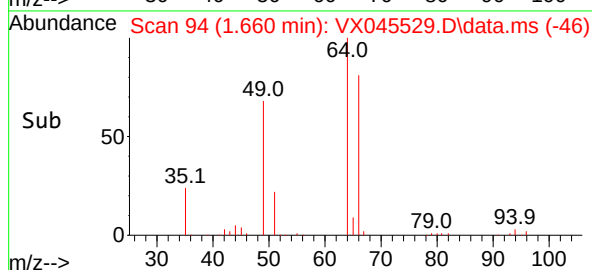
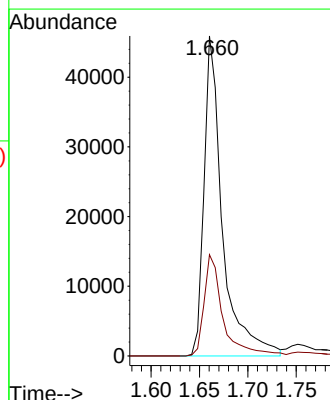
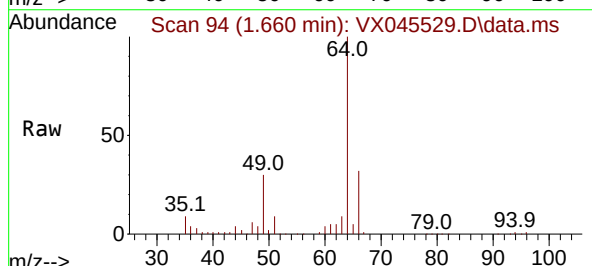
Manual Integrations
APPROVED

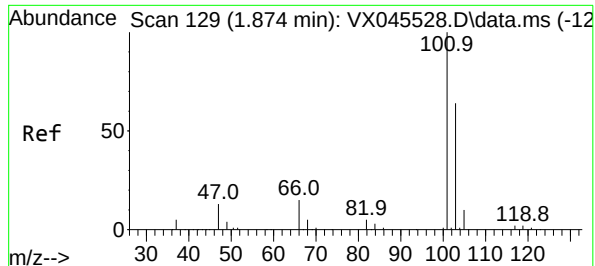
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#6
Chloroethane
Concen: 95.120 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 64 Resp: 61099
Ion Ratio Lower Upper
64 100
66 31.7 26.3 39.5





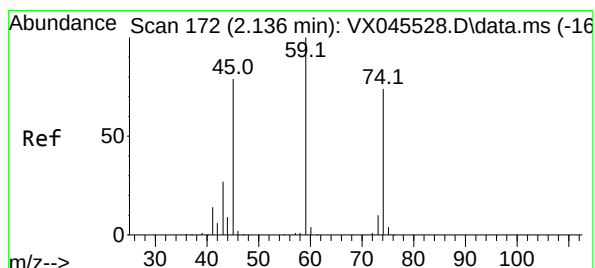
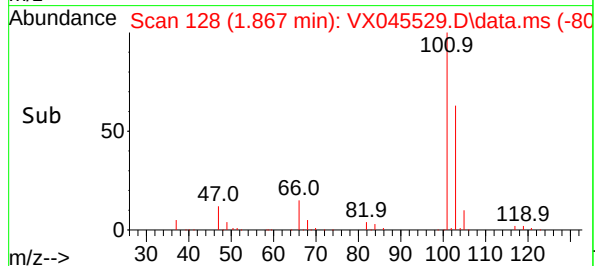
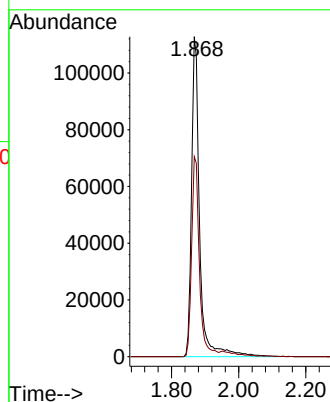
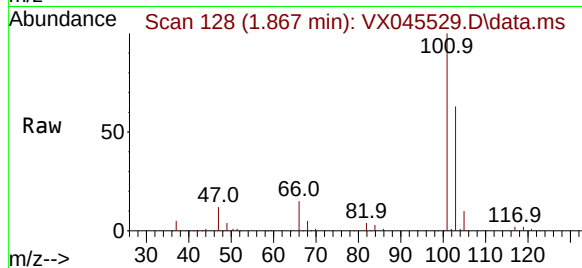
#7
Trichlorofluoromethane
Concen: 103.887 ug/l
RT: 1.867 min Scan# 101
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 18755
Ion Ratio Lower Upper
101 100
103 62.5 51.1 76.7

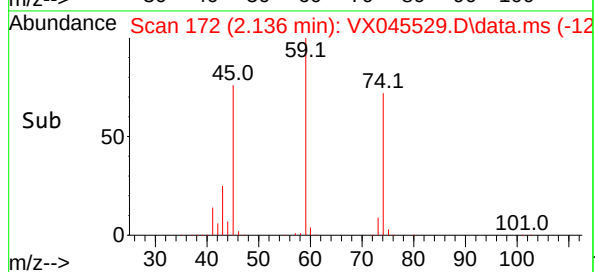
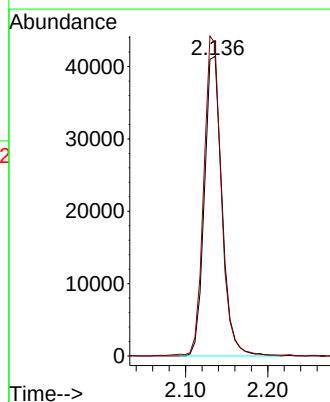
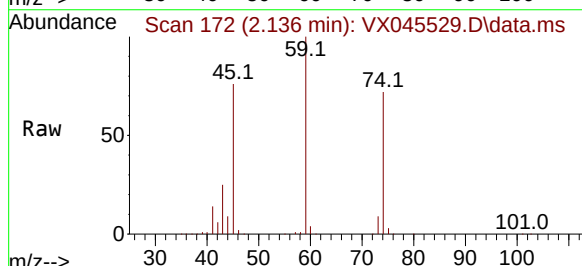
Manual Integrations
APPROVED

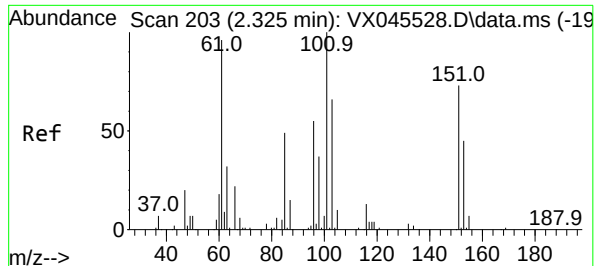
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#8
Diethyl Ether
Concen: 101.767 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 74 Resp: 61683
Ion Ratio Lower Upper
74 100
45 106.7 53.0 159.1





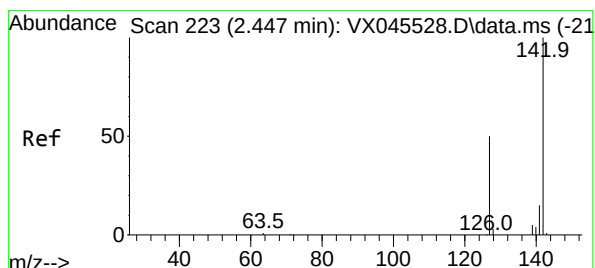
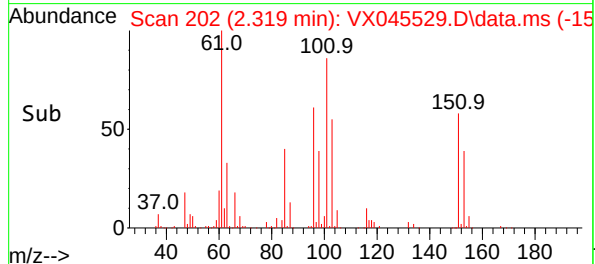
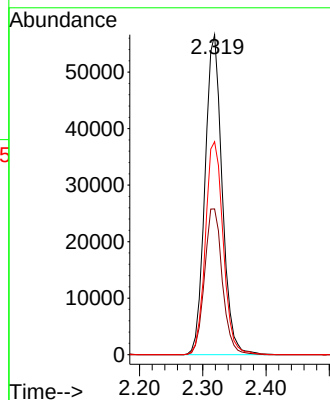
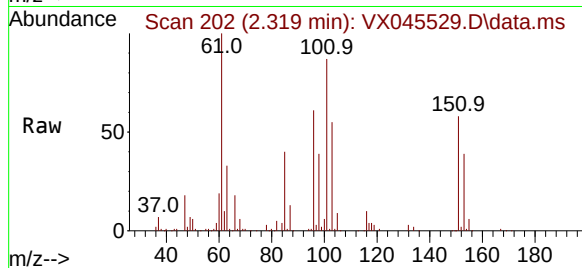
#9
1,1,2-Trichlorotrifluoroethane
Concen: 101.133 ug/l
RT: 2.319 min Scan# 203
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 106989
Ion Ratio Lower Upper
101 100
85 47.3 38.9 58.3
151 69.0 57.5 86.3

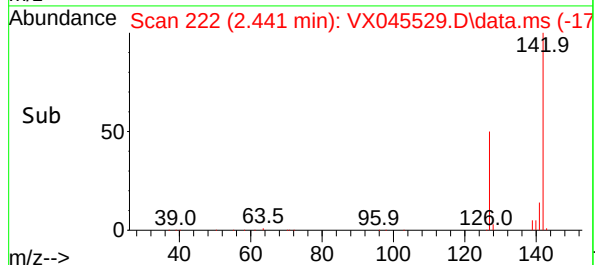
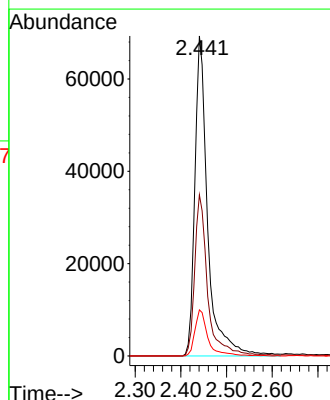
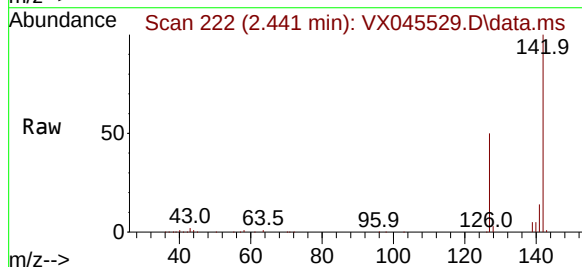
Manual Integrations
APPROVED

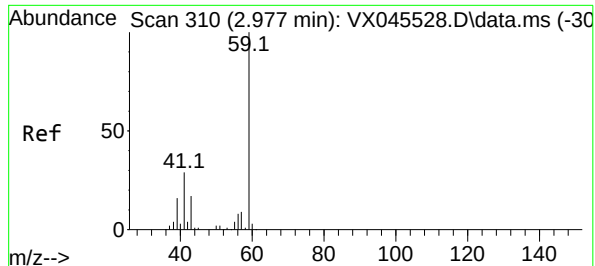
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#10
Methyl Iodide
Concen: 102.863 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:142 Resp: 135732
Ion Ratio Lower Upper
142 100
127 50.6 40.2 60.4
141 14.5 11.7 17.5





#11

Tert butyl alcohol

Concen: 519.999 ug/l

RT: 2.989 min Scan# 310

Delta R.T. 0.012 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 11004

Ion Ratio Lower Upper

59 100

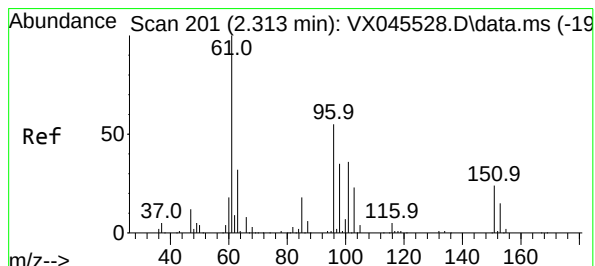
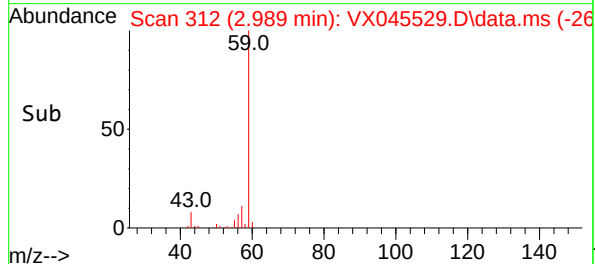
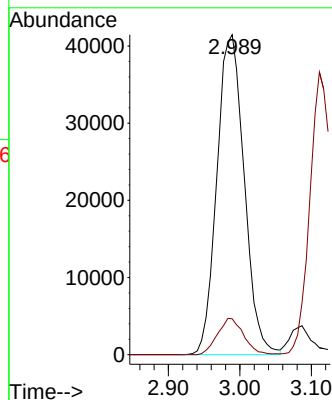
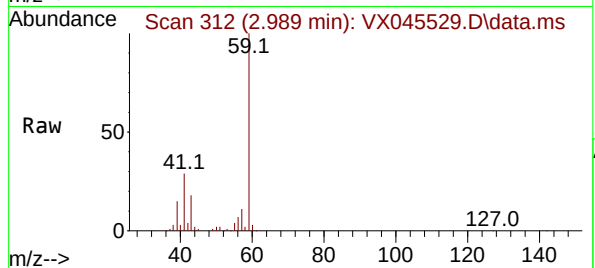
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#12

1,1-Dichloroethene

Concen: 102.934 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

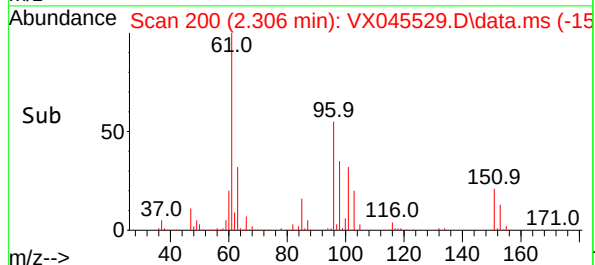
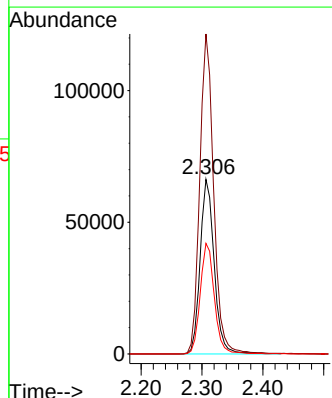
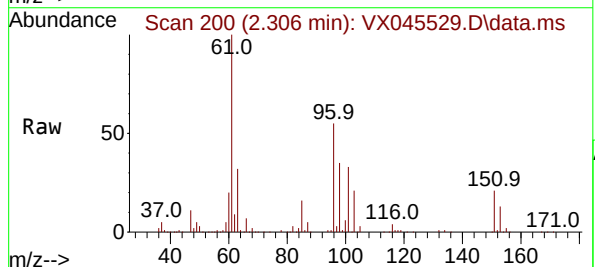
Tgt Ion: 96 Resp: 106404

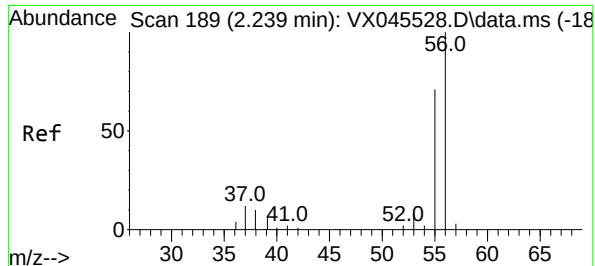
Ion Ratio Lower Upper

96 100

61 183.3 145.7 218.5

98 63.3 51.6 77.4





#13

Acrolein

Concen: 501.914 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 56 Resp: 146268

Ion Ratio Lower Upper

56 100

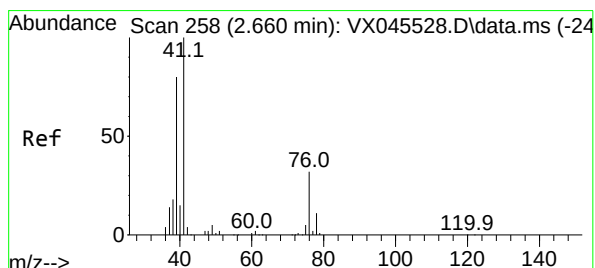
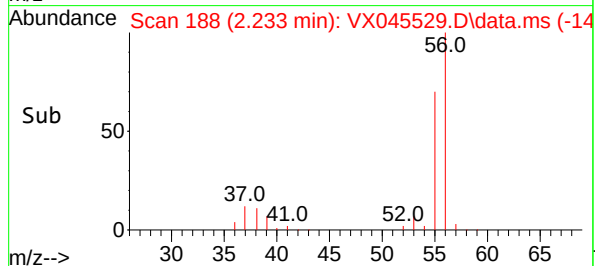
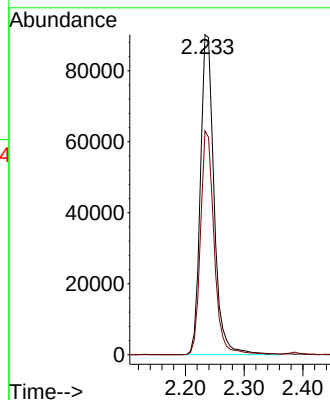
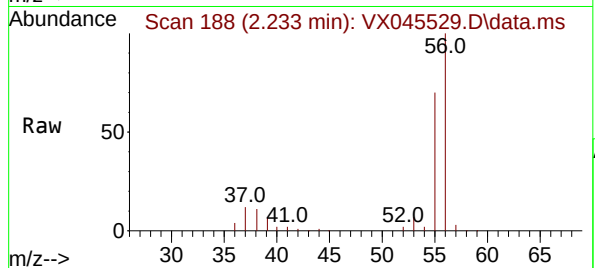
55 69.5 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#14

Allyl chloride

Concen: 105.276 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

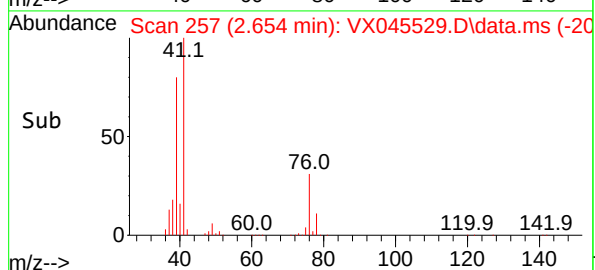
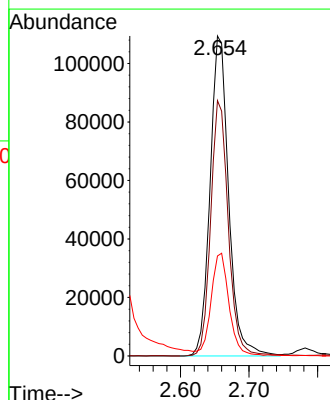
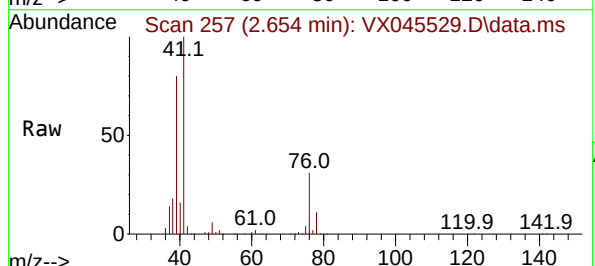
Tgt Ion: 41 Resp: 206484

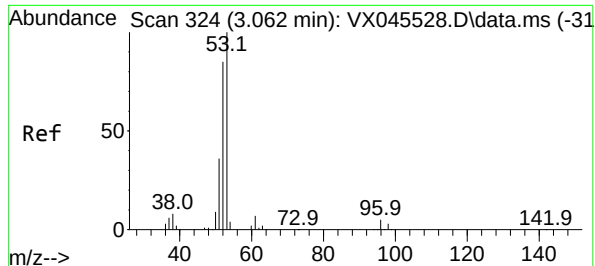
Ion Ratio Lower Upper

41 100

39 75.8 60.2 90.2

76 31.3 24.6 36.8





#15

Acrylonitrile

Concen: 507.426 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

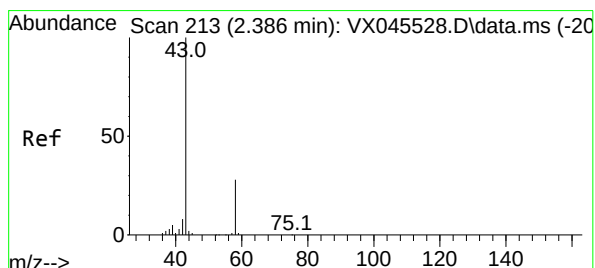
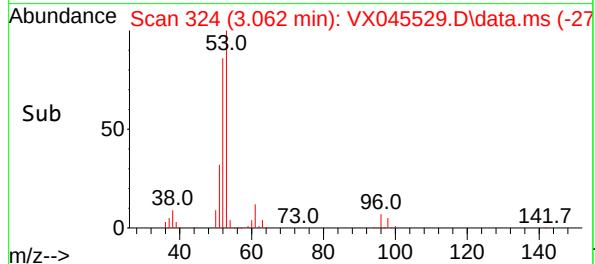
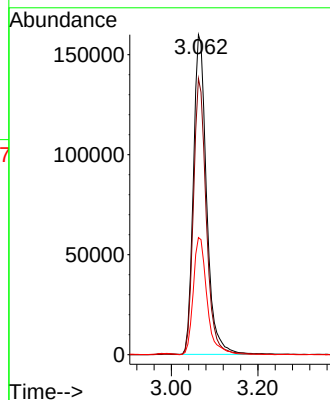
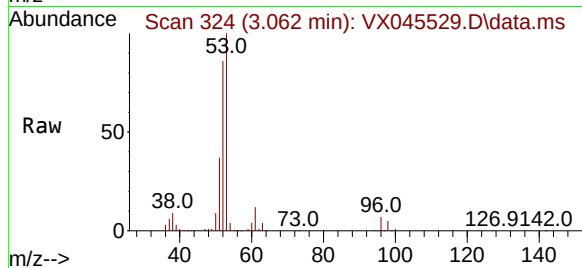
VSTDICC100

Tgt Ion:	53	Resp:	338970
Ion	Ratio	Lower	Upper
53	100		
52	83.9	67.4	101.2
51	38.0	29.9	44.9

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 486.054 ug/l

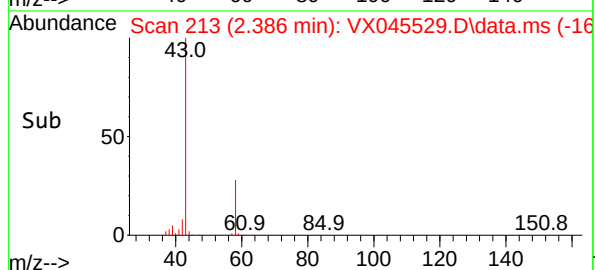
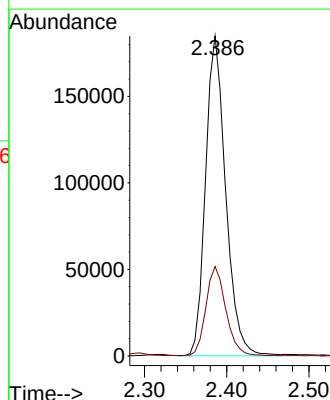
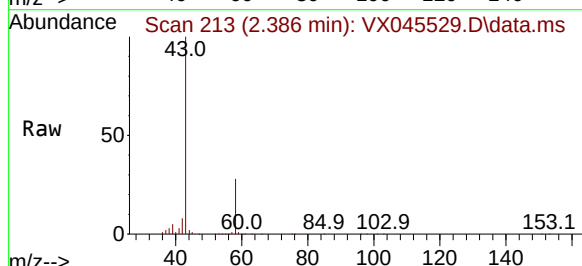
RT: 2.386 min Scan# 213

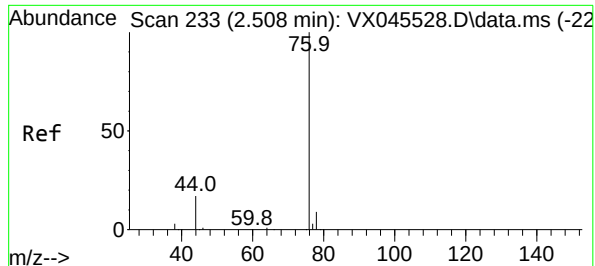
Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion:	43	Resp:	314285
Ion	Ratio	Lower	Upper
43	100		
58	27.8	22.3	33.5





#17

Carbon Disulfide

Concen: 108.215 ug/l

RT: 2.502 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 27628

Ion Ratio Lower Upper

76 100

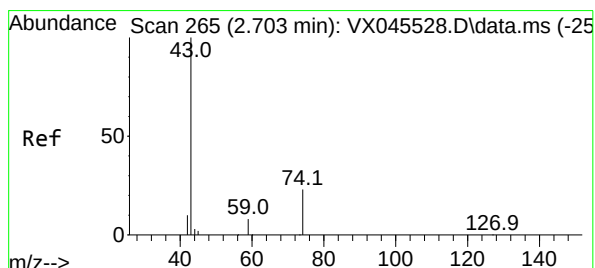
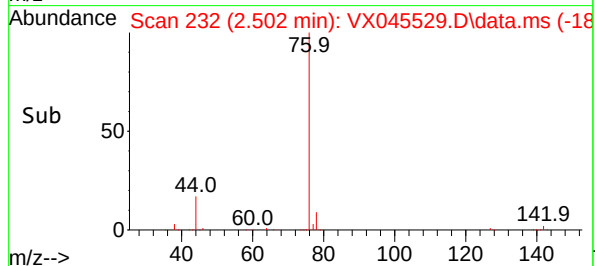
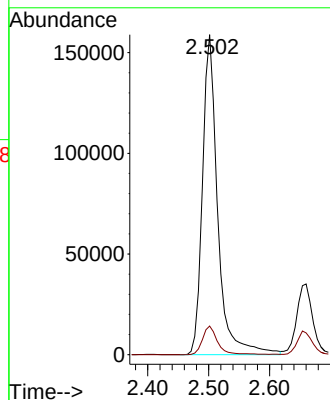
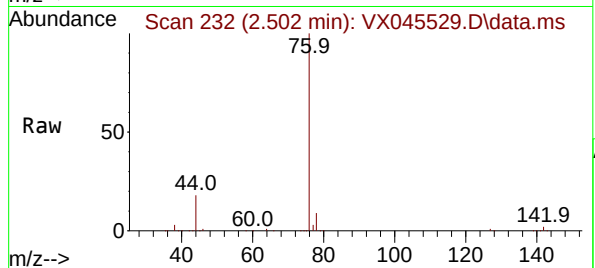
78 8.9 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#18

Methyl Acetate

Concen: 98.925 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045529.D

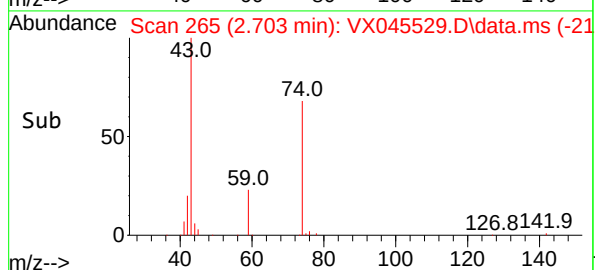
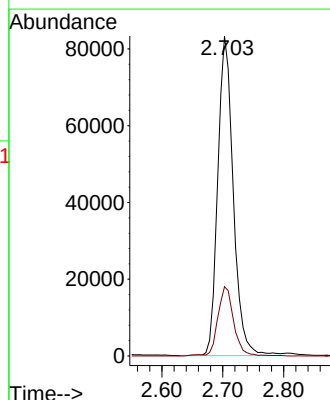
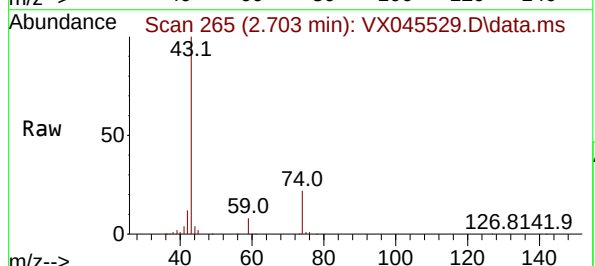
Acq: 01 Apr 2025 18:38

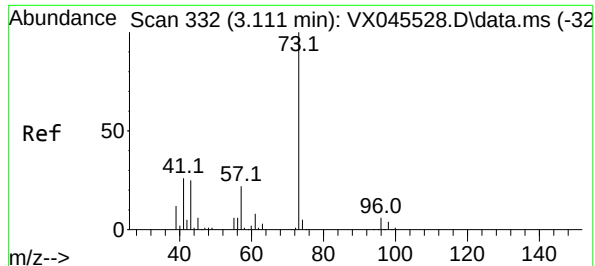
Tgt Ion: 43 Resp: 147272

Ion Ratio Lower Upper

43 100

74 22.2 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 105.561 ug/l

RT: 3.111 min Scan# 3

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 73 Resp: 381719

Ion Ratio Lower Upper

73 100

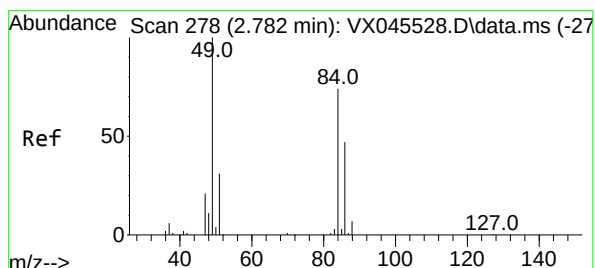
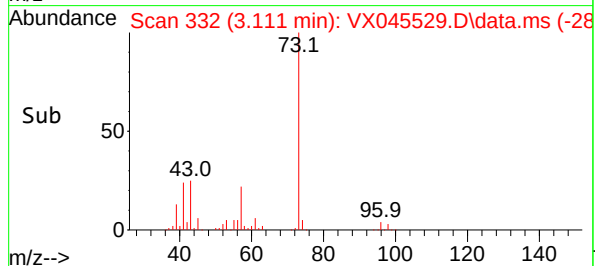
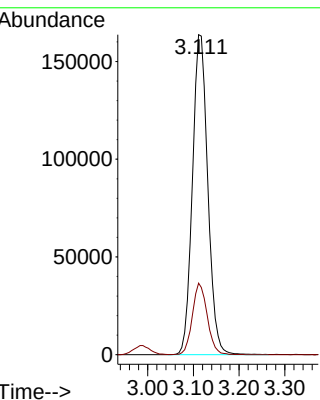
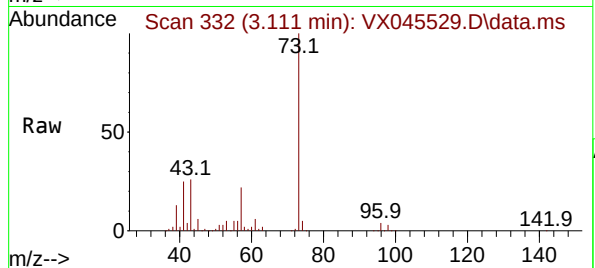
57 22.4 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 100.316 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion: 84 Resp: 121435

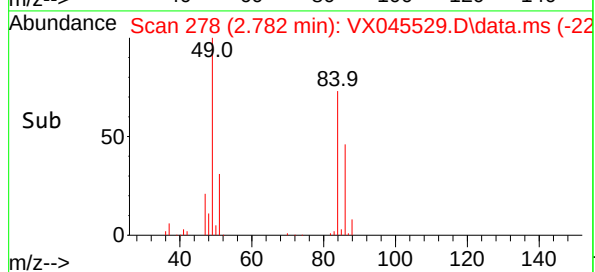
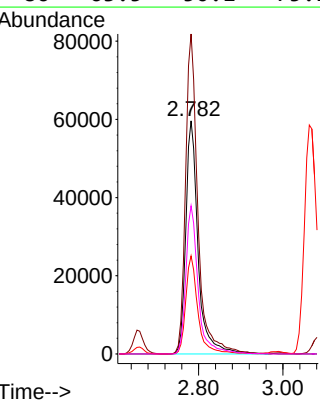
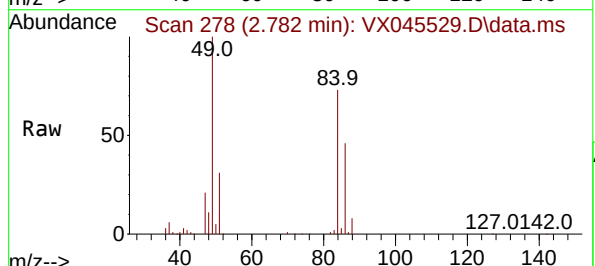
Ion Ratio Lower Upper

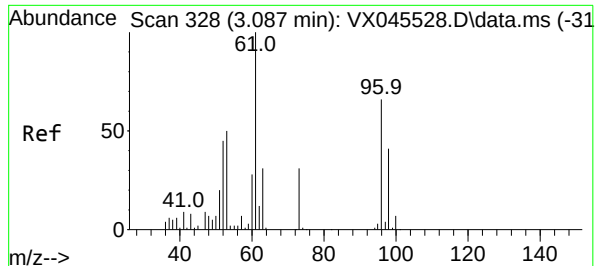
84 100

49 137.2 107.5 161.3

51 42.1 33.0 49.6

86 63.5 50.1 75.1





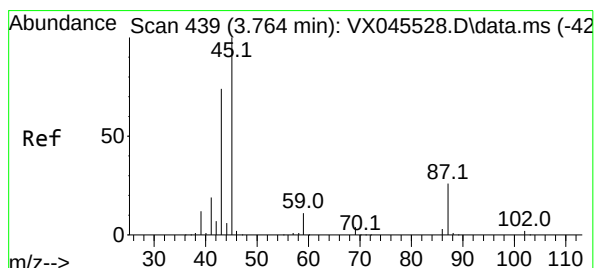
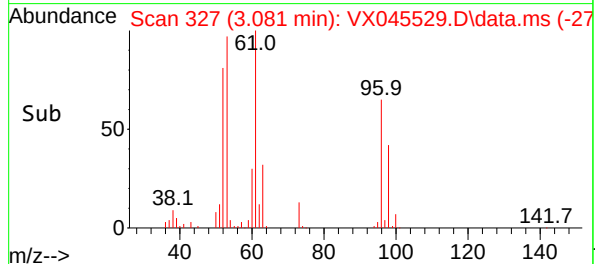
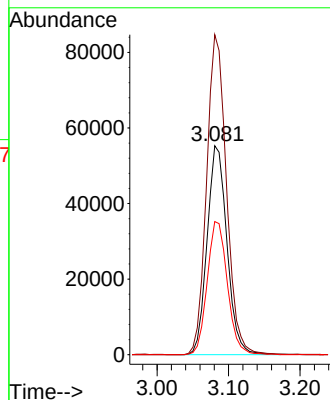
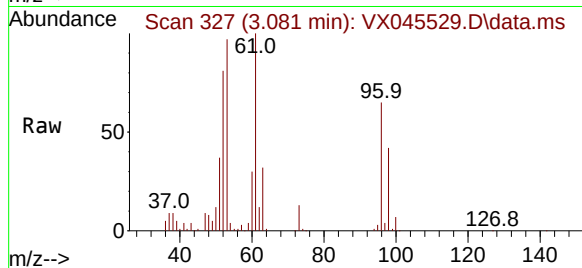
#21
trans-1,2-Dichloroethene
Concen: 101.220 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 96 Resp: 106890
Ion Ratio Lower Upper
96 100
61 153.1 121.0 181.6
98 63.7 49.7 74.5

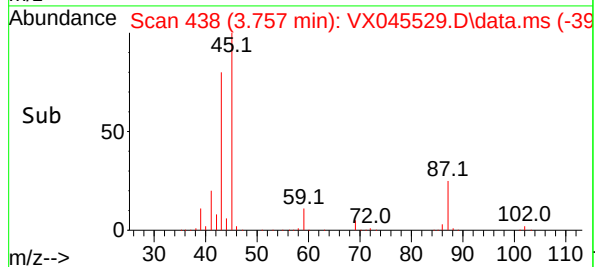
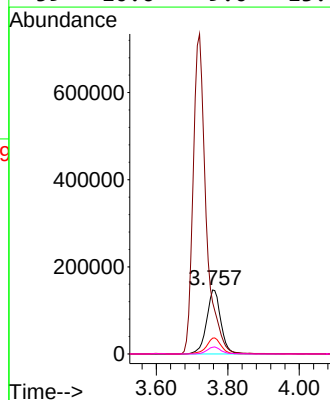
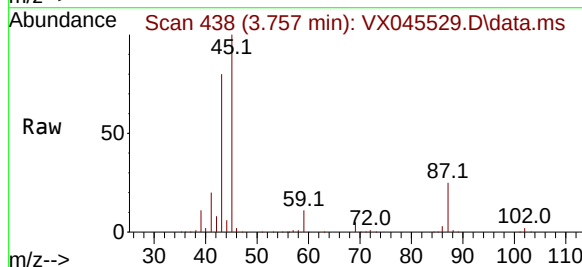
Manual Integrations
APPROVED

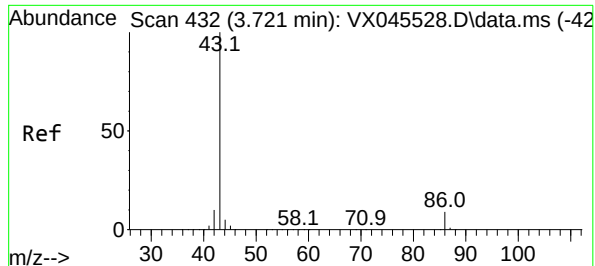
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#22
Diisopropyl ether
Concen: 105.132 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 45 Resp: 406185
Ion Ratio Lower Upper
45 100
43 80.1 59.3 88.9
87 24.7 20.4 30.6
59 10.6 9.0 13.6





#23

Vinyl Acetate

Concen: 553.853 ug/l

RT: 3.721 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 184881

Ion Ratio Lower Upper

43

100

86

9.6

7.5

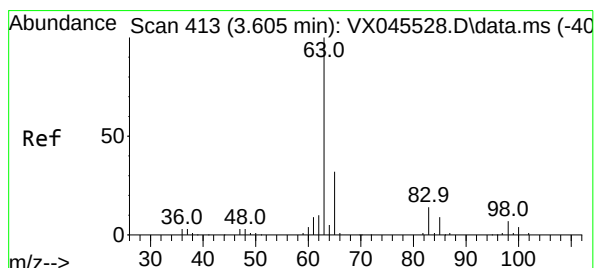
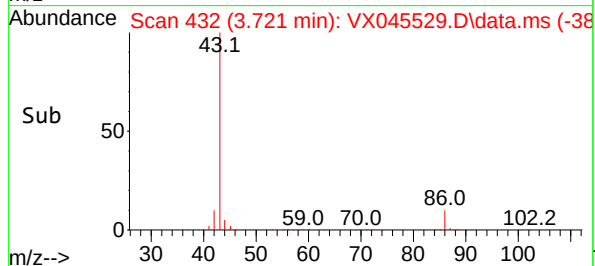
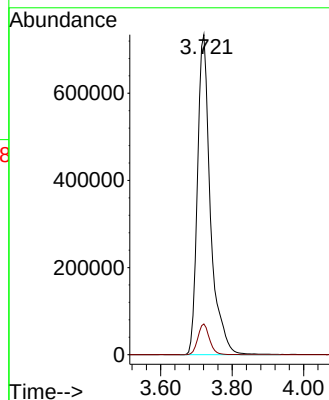
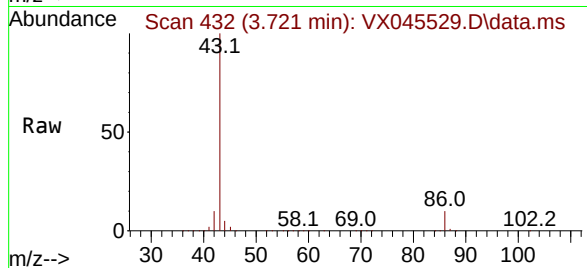
11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#24

1,1-Dichloroethane

Concen: 101.114 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion: 63 Resp: 220934

Ion Ratio Lower Upper

63

100

98

6.6

3.4

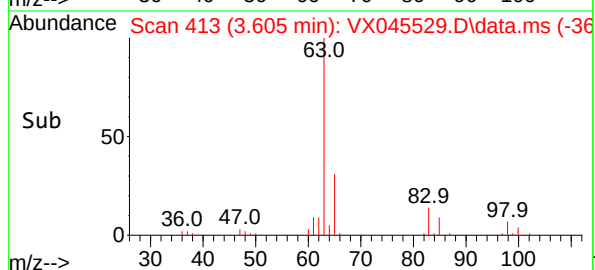
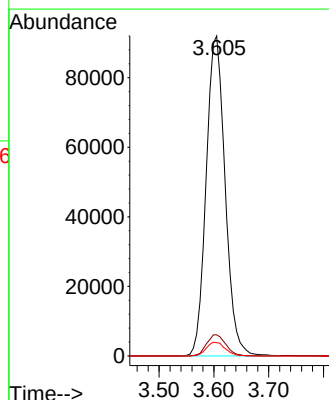
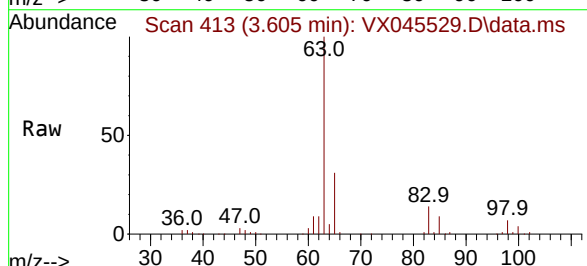
10.1

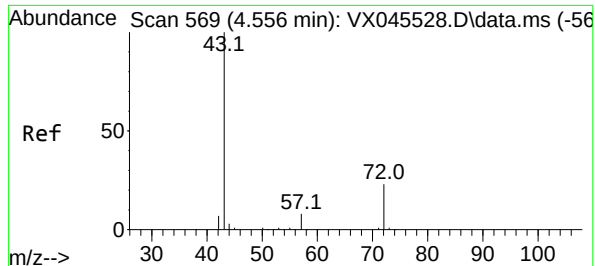
100

4.2

2.2

6.6





#25

2-Butanone

Concen: 519.018 ug/l

RT: 4.556 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 491249

Ion Ratio Lower Upper

43 100

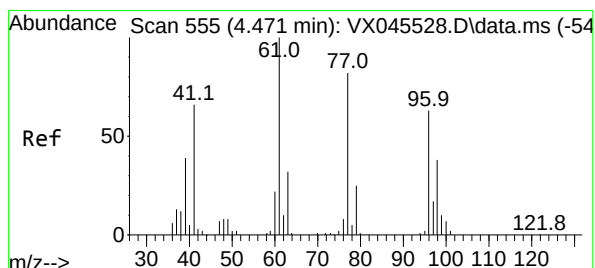
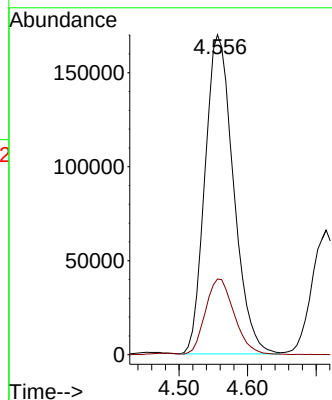
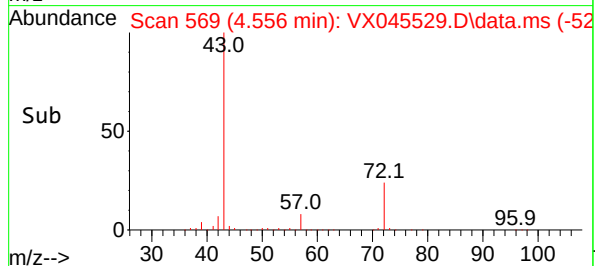
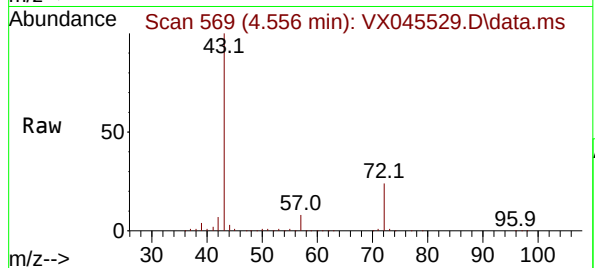
72 23.5 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#26

2,2-Dichloropropane

Concen: 110.215 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX045529.D

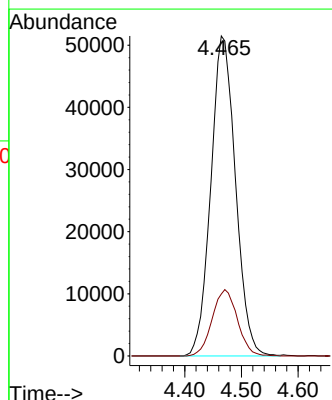
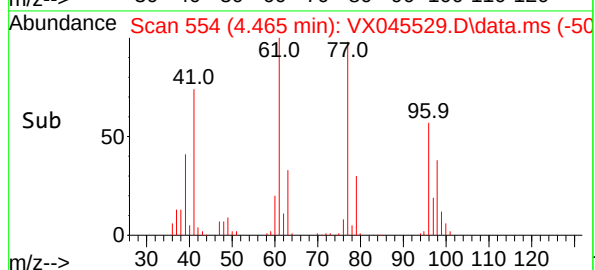
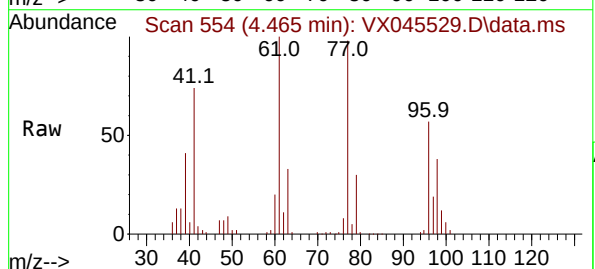
Acq: 01 Apr 2025 18:38

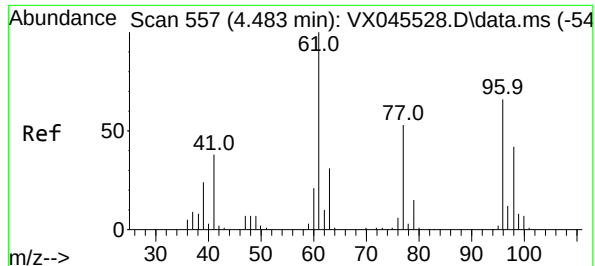
Tgt Ion: 77 Resp: 155592

Ion Ratio Lower Upper

77 100

97 21.2 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 100.871 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 96 Resp: 12978

Ion Ratio Lower Upper

96 100

61 159.4 0.0 313.2

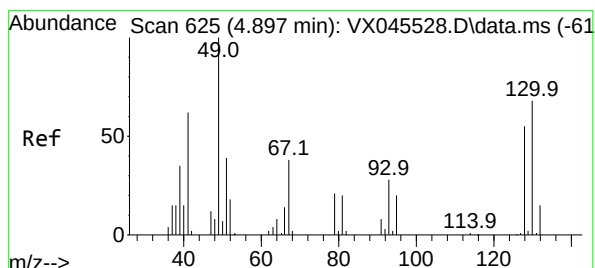
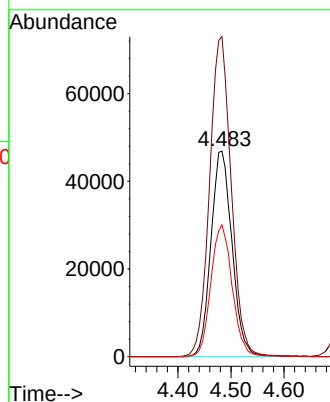
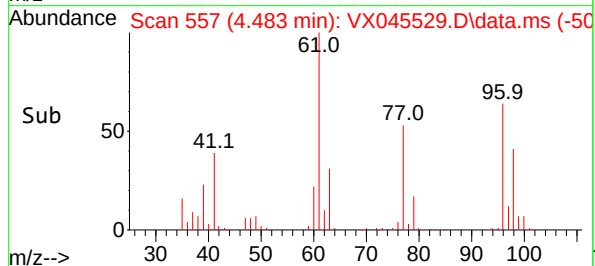
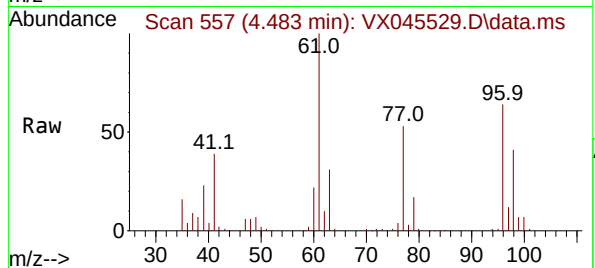
98 64.7 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 99.530 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

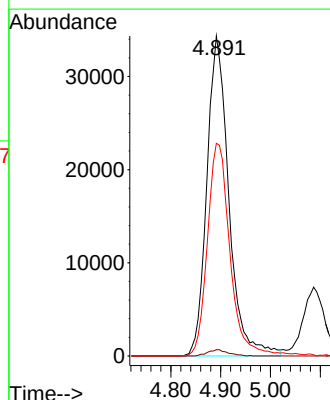
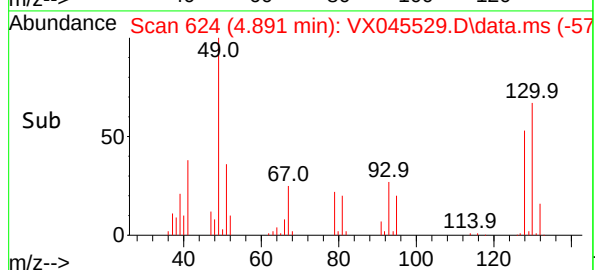
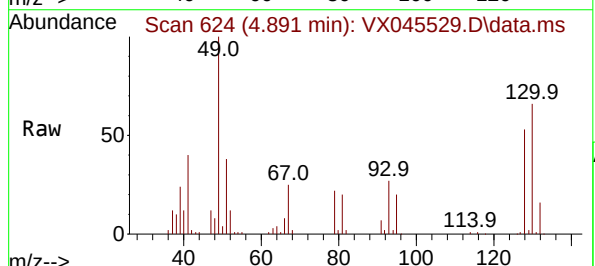
Tgt Ion: 49 Resp: 105093

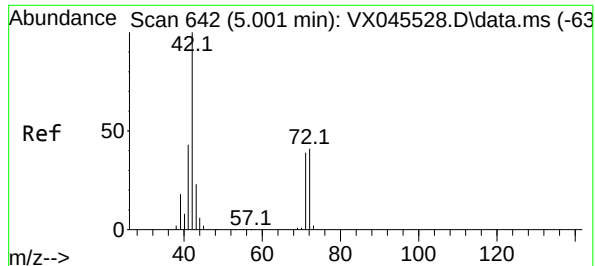
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 68.4 54.6 81.8





#29

Tetrahydrofuran

Concen: 510.264 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 42 Resp: 31312

Ion Ratio Lower Upper

42 100

72 42.3 33.4 50.0

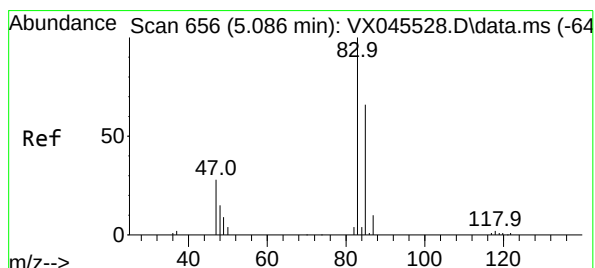
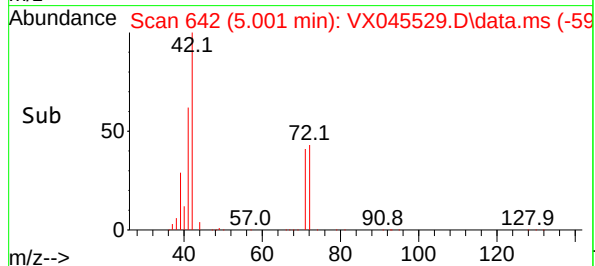
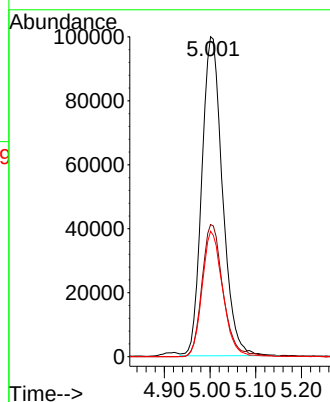
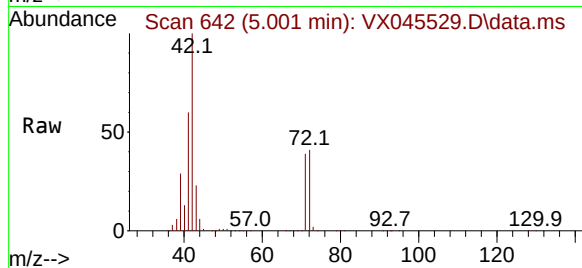
71 39.1 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 100.255 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045529.D

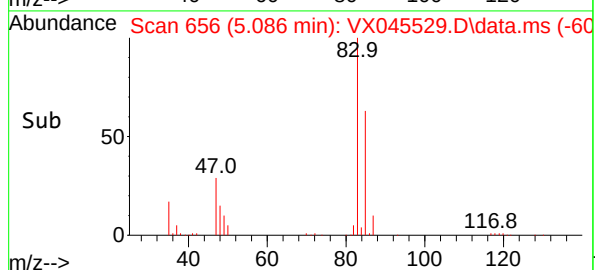
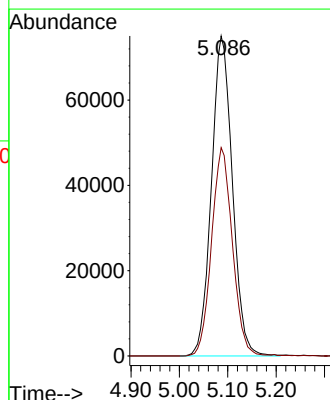
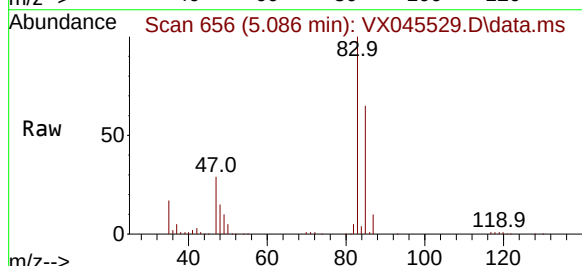
Acq: 01 Apr 2025 18:38

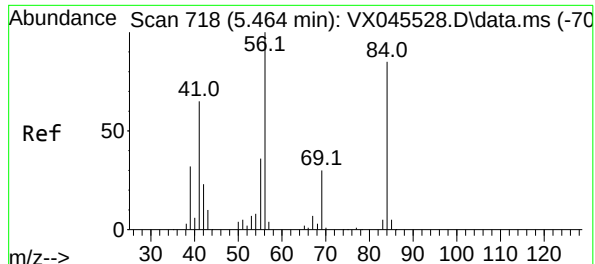
Tgt Ion: 83 Resp: 225402

Ion Ratio Lower Upper

83 100

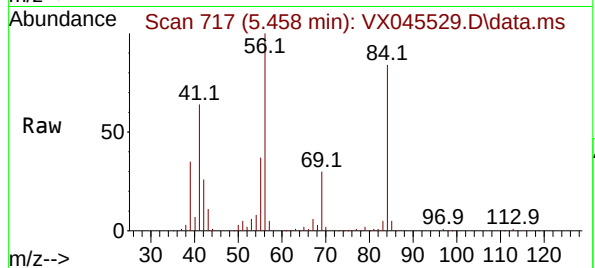
85 65.1 52.8 79.2





#31
Cyclohexane
Concen: 102.056 ug/l
RT: 5.458 min Scan# 718
Delta R.T. -0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

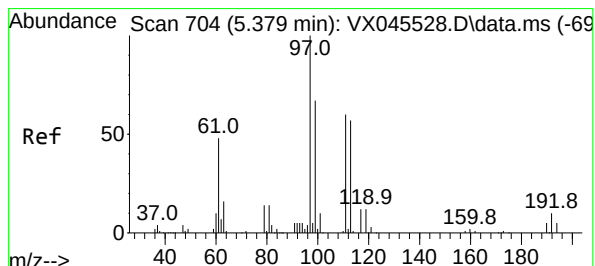
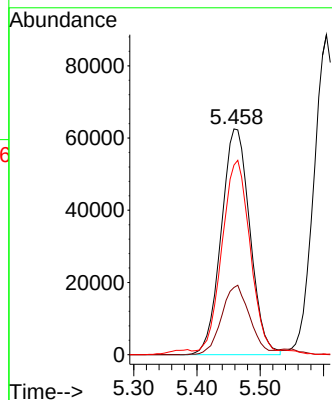
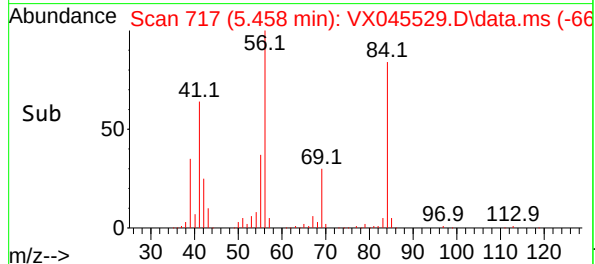
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 197130
Ion Ratio Lower Upper
56 100
69 29.8 23.6 35.4
84 82.1 67.7 101.5

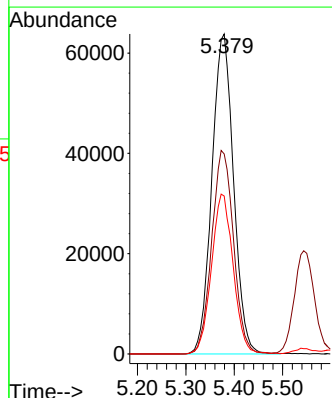
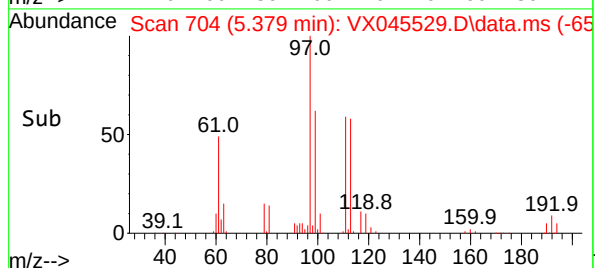
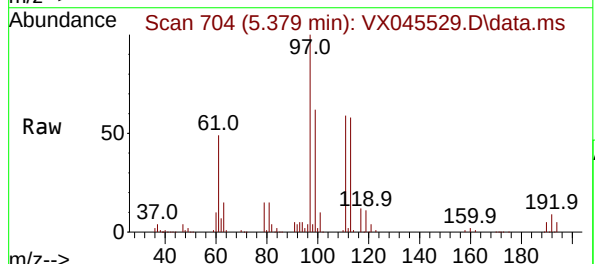
Manual Integrations
APPROVED

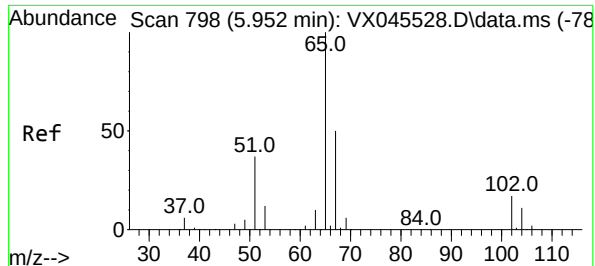
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#32
1,1,1-Trichloroethane
Concen: 104.346 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 97 Resp: 198511
Ion Ratio Lower Upper
97 100
99 64.1 51.7 77.5
61 50.2 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 98.914 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 65 Resp: 15575

Ion Ratio Lower Upper

65 100

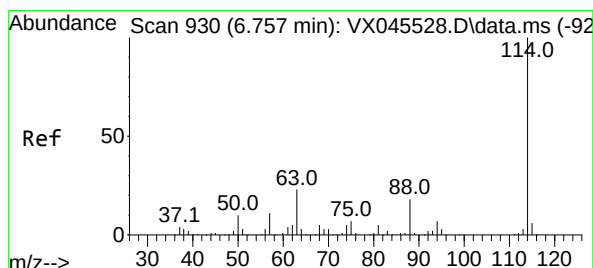
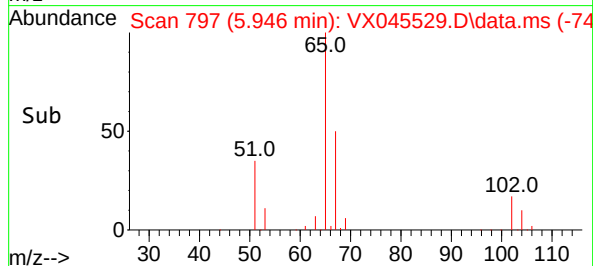
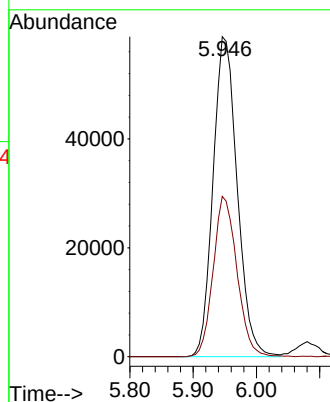
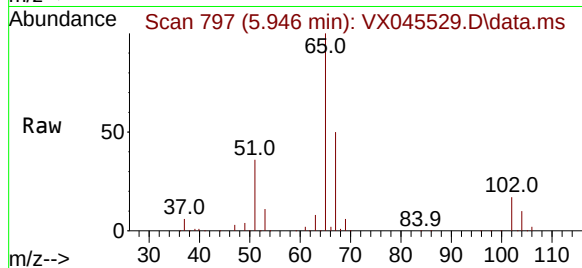
67 49.3 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

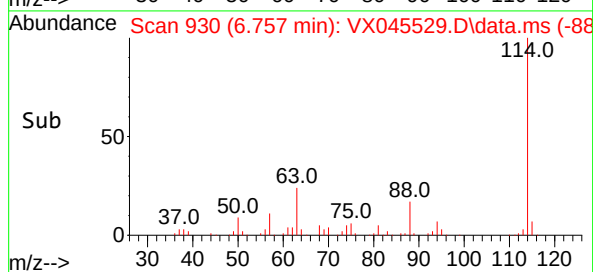
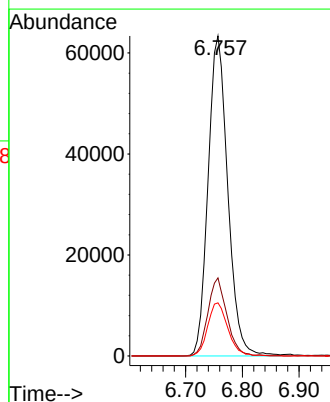
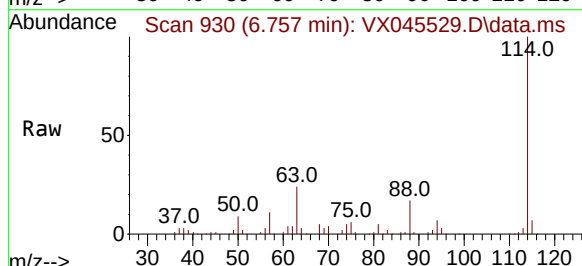
Tgt Ion:114 Resp: 152724

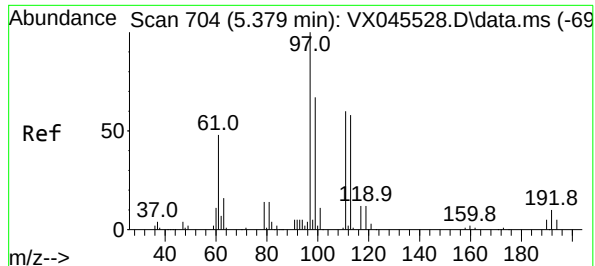
Ion Ratio Lower Upper

114 100

63 24.4 0.0 46.8

88 16.6 0.0 35.4





#35

Dibromofluoromethane

Concen: 99.585 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:113 Resp: 107908

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.6

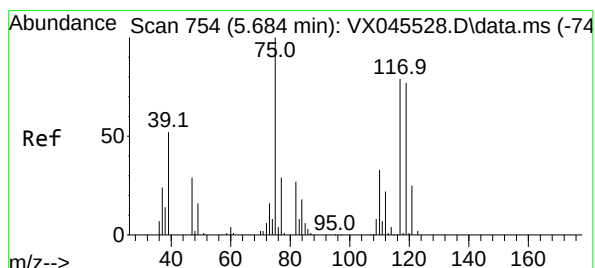
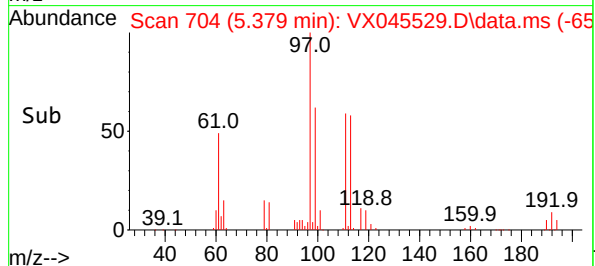
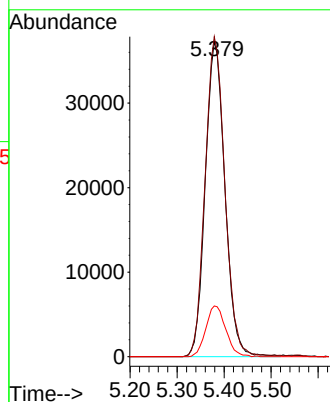
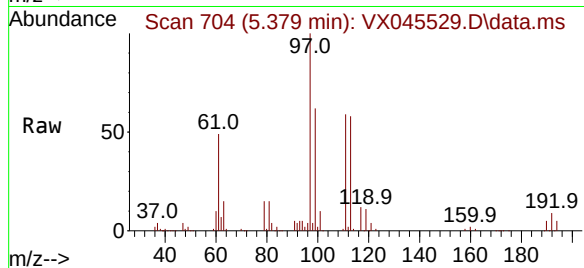
192 16.4 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#36

1,1-Dichloropropene

Concen: 103.515 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

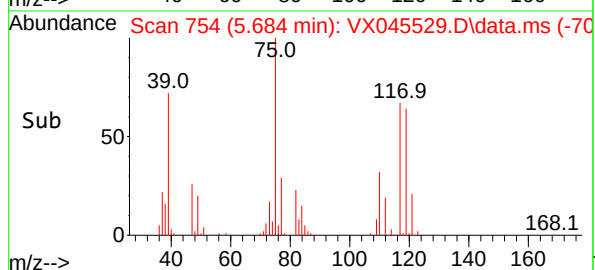
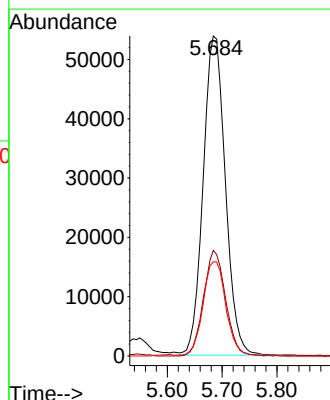
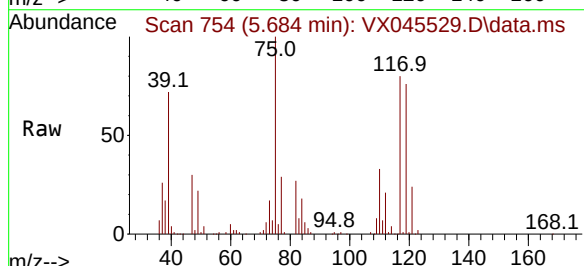
Tgt Ion: 75 Resp: 151448

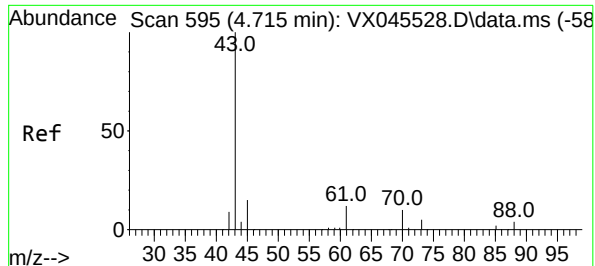
Ion Ratio Lower Upper

75 100

110 32.8 16.9 50.6

77 30.4 25.0 37.4





#37

Ethyl Acetate

Concen: 104.207 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

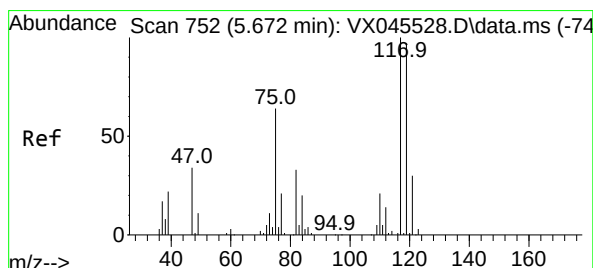
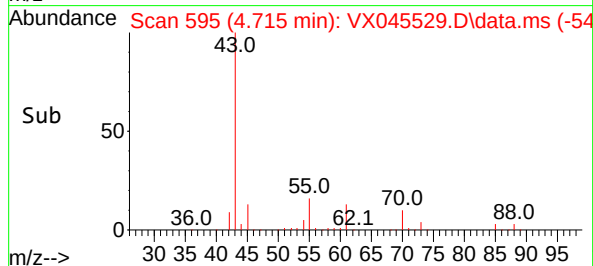
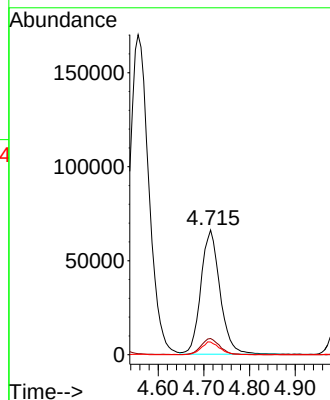
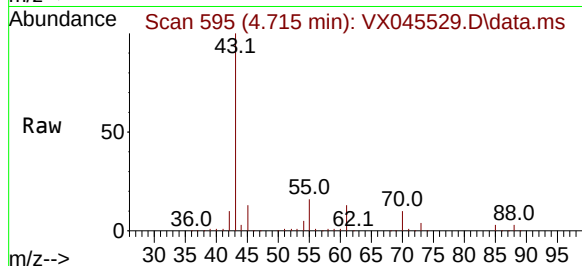
VSTDIC100

Tgt Ion:	43	Resp:	192130
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	9.8	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#38

Carbon Tetrachloride

Concen: 105.278 ug/l

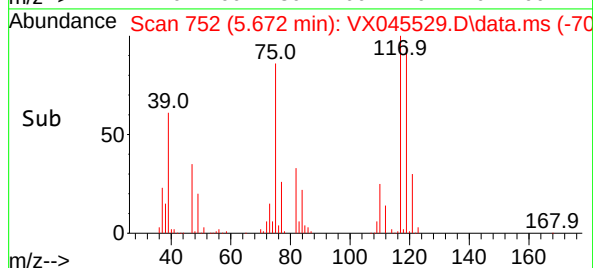
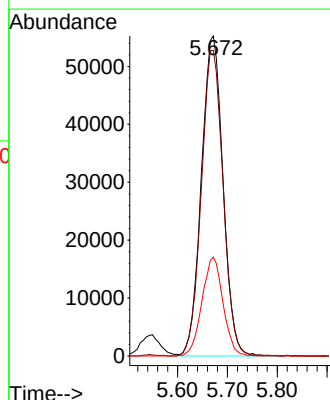
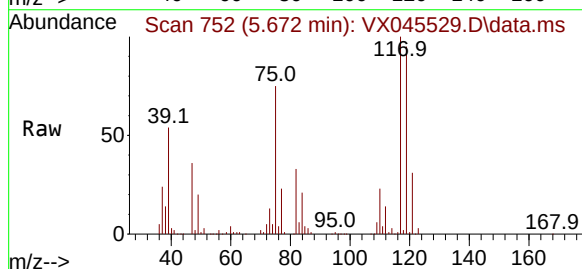
RT: 5.672 min Scan# 752

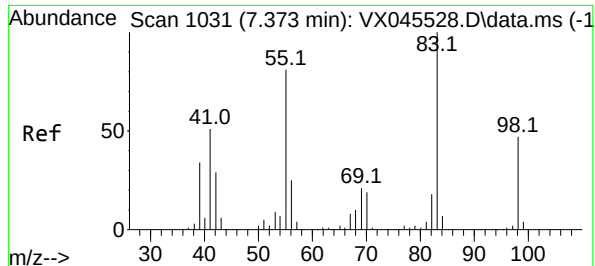
Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion:	117	Resp:	166465
Ion	Ratio	Lower	Upper
117	100		
119	95.5	76.9	115.3
121	30.9	24.2	36.2





#39

Methylcyclohexane

Concen: 106.921 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 191752

Ion Ratio Lower Upper

83 100

55 80.4 64.9 97.3

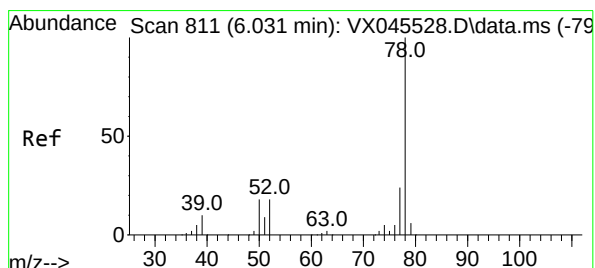
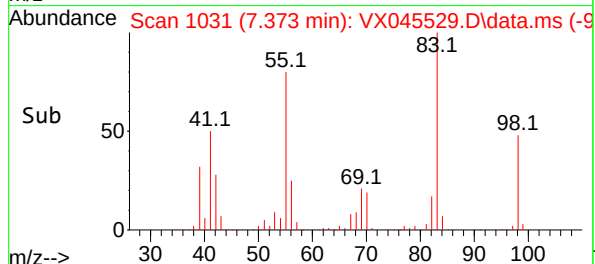
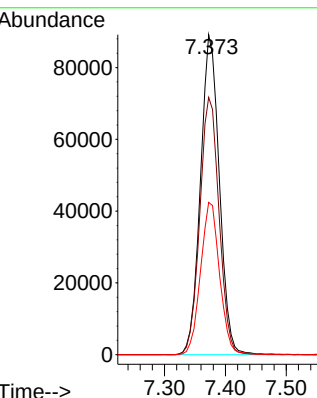
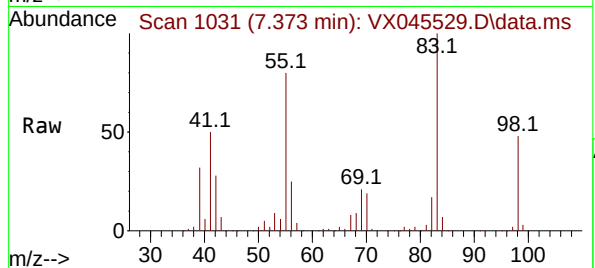
98 47.6 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#40

Benzene

Concen: 101.369 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045529.D

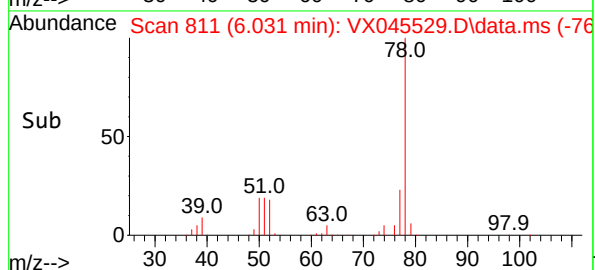
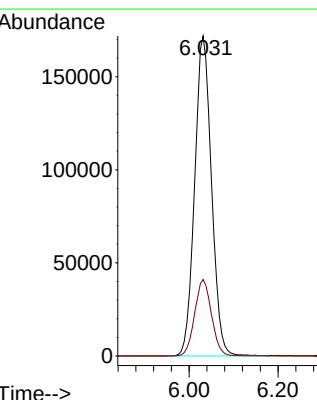
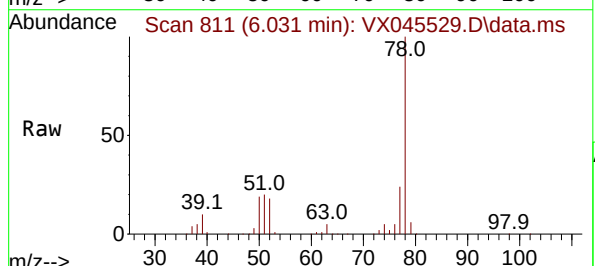
Acq: 01 Apr 2025 18:38

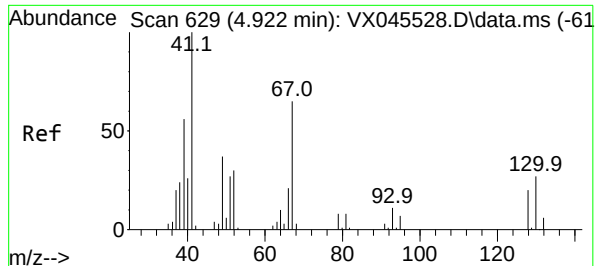
Tgt Ion: 78 Resp: 452946

Ion Ratio Lower Upper

78 100

77 23.9 19.0 28.6





#41

Methacrylonitrile

Concen: 109.068 ug/l

RT: 4.922 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 41 Resp: 10703

Ion Ratio Lower Upper

41 100

39 57.9 47.0 70.6

67 66.2 53.2 79.8

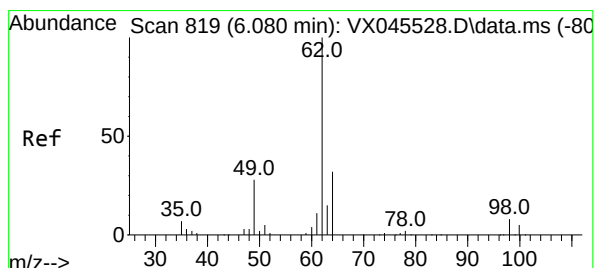
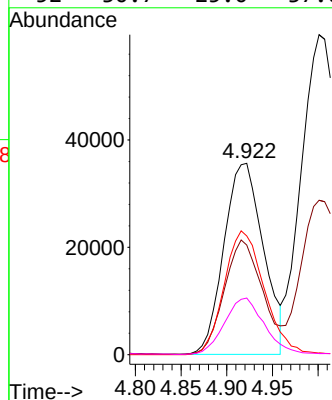
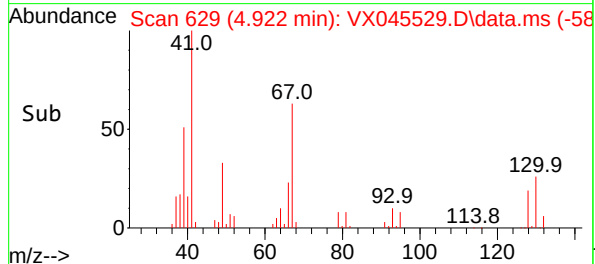
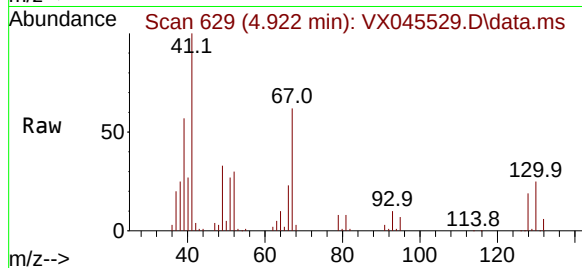
52 30.7 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#42

1,2-Dichloroethane

Concen: 102.696 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX045529.D

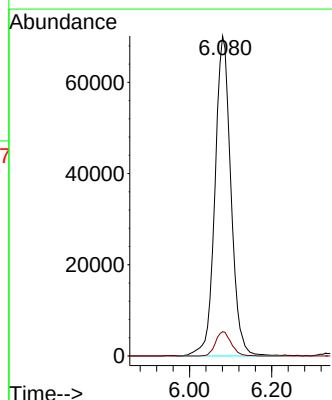
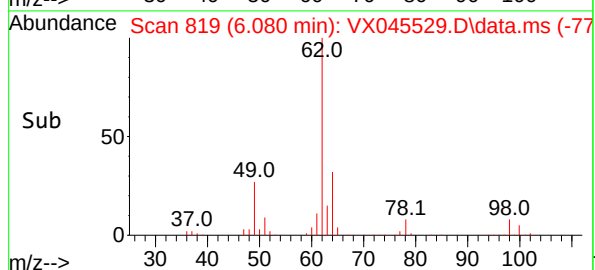
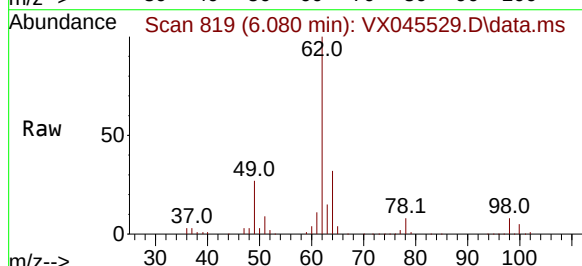
Acq: 01 Apr 2025 18:38

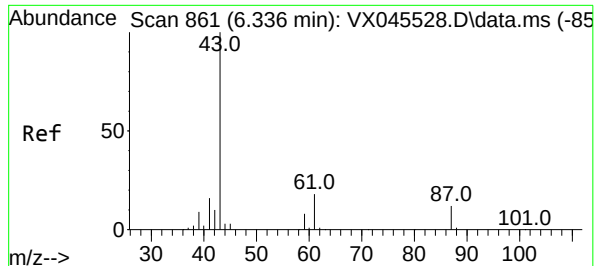
Tgt Ion: 62 Resp: 189528

Ion Ratio Lower Upper

62 100

98 7.4 0.0 15.2





#43

Isopropyl Acetate

Concen: 109.494 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

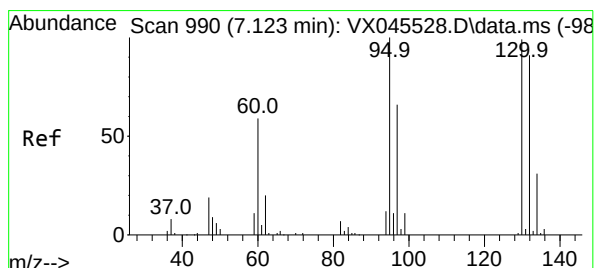
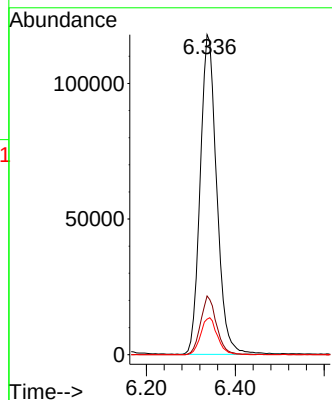
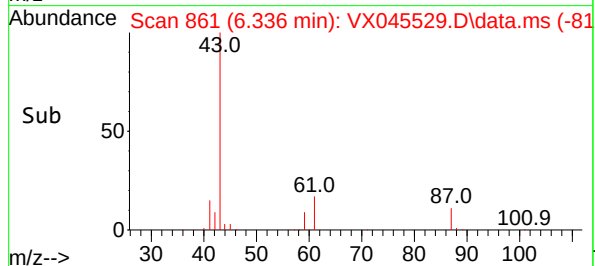
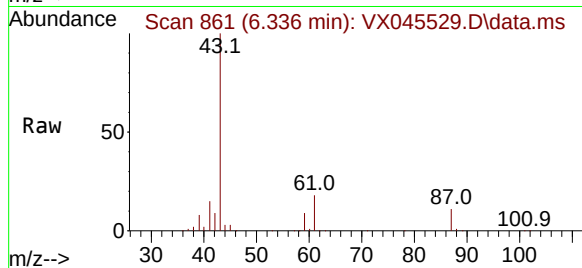
VSTDICC100

Tgt Ion:	43	Resp:	305974
Ion	Ratio	Lower	Upper
43	100		
61	17.6	14.1	21.1
87	11.6	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#44

Trichloroethene

Concen: 101.062 ug/l

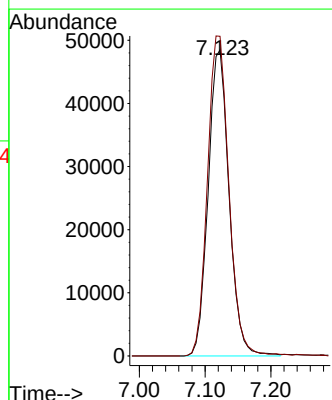
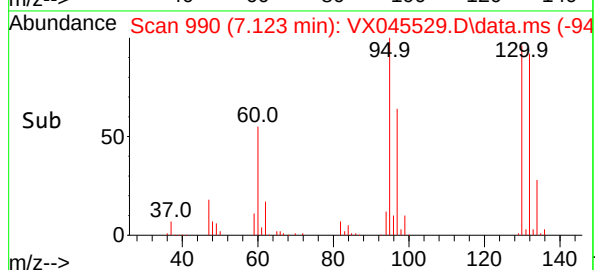
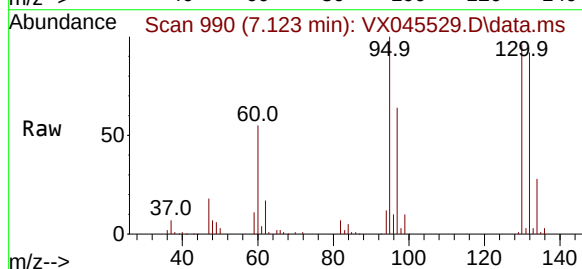
RT: 7.123 min Scan# 990

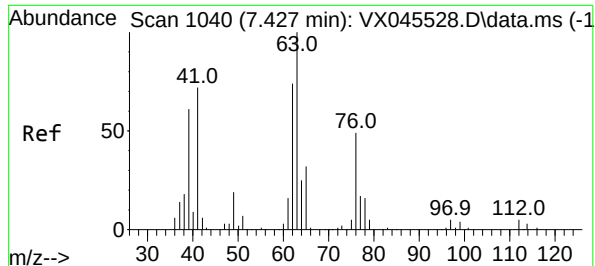
Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion:	130	Resp:	107332
Ion	Ratio	Lower	Upper
130	100		
95	104.4	0.0	202.0





#45

1,2-Dichloropropane

Concen: 103.806 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 11573

Ion Ratio Lower Upper

63 100

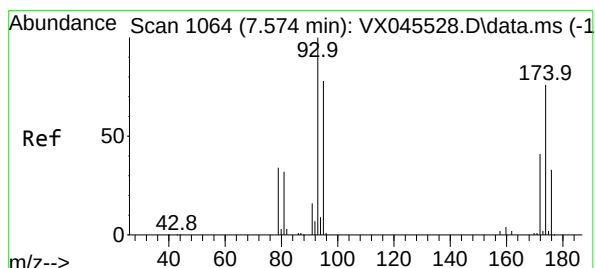
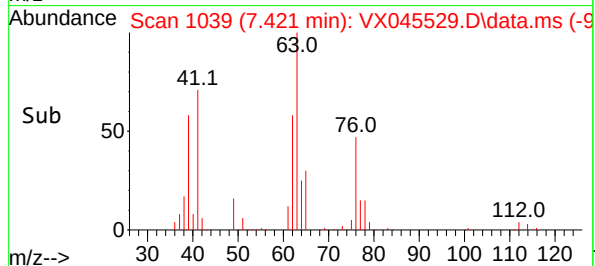
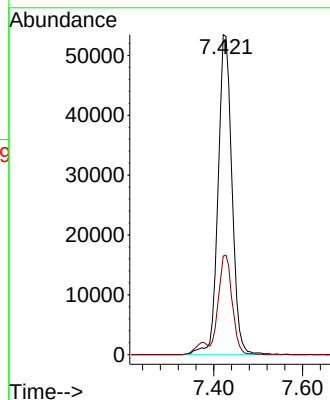
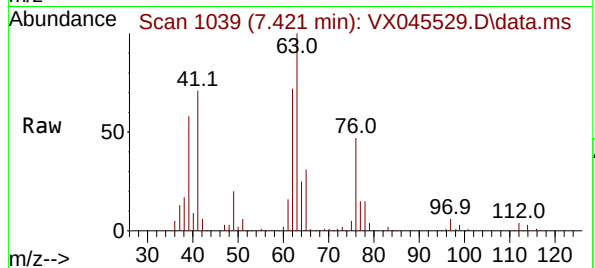
65 30.8 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#46

Dibromomethane

Concen: 102.101 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

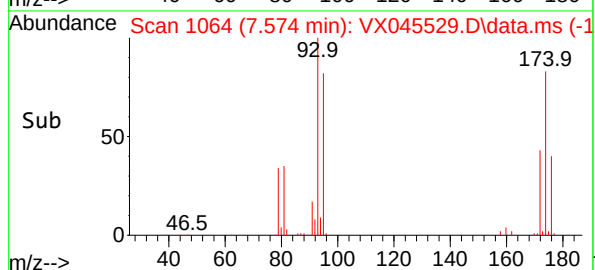
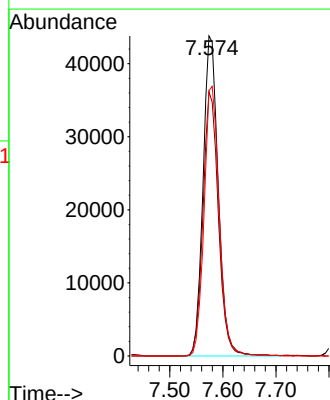
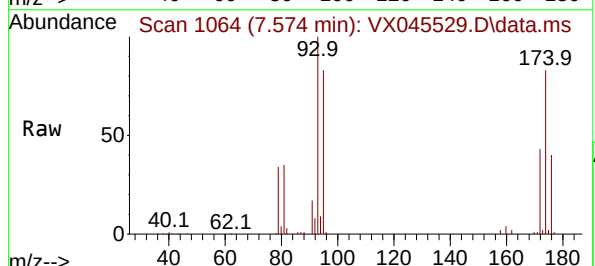
Tgt Ion: 93 Resp: 87381

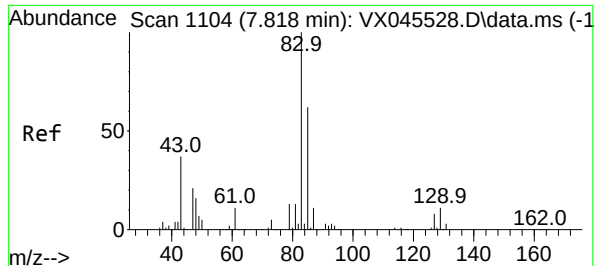
Ion Ratio Lower Upper

93 100

95 83.4 64.8 97.2

174 84.4 65.4 98.0





#47

Bromodichloromethane

Concen: 104.886 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 17926

Ion Ratio Lower Upper

83 100

85 63.8 49.7 74.5

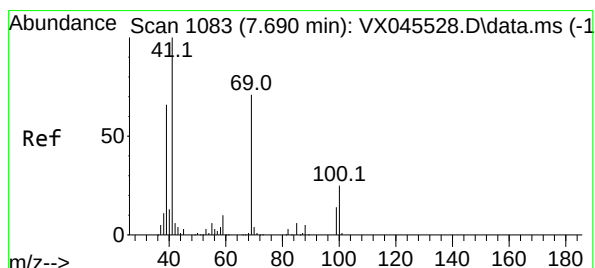
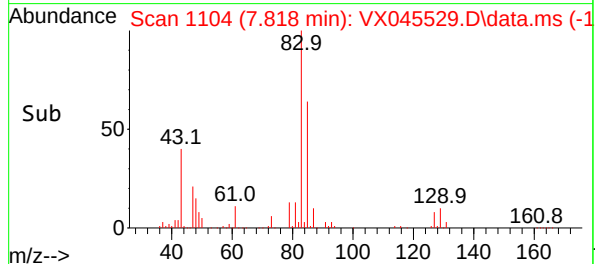
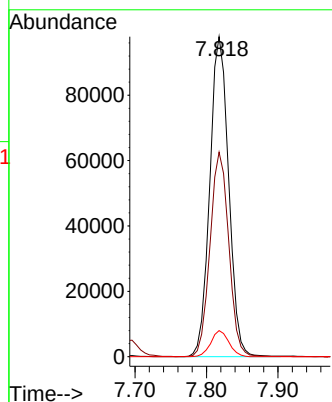
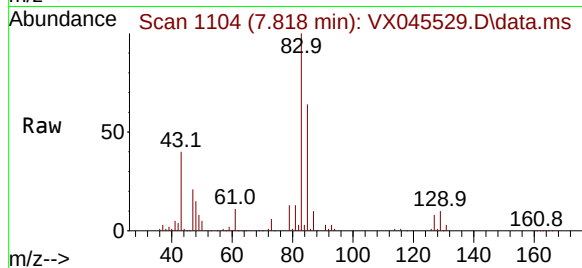
127 8.2 6.1 9.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#48

Methyl methacrylate

Concen: 109.675 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

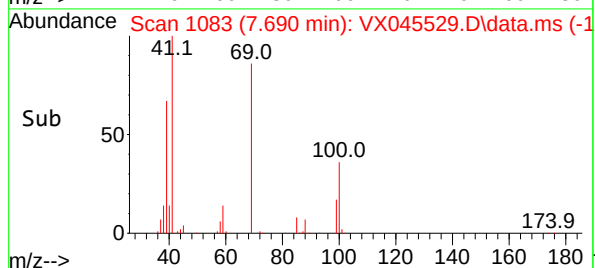
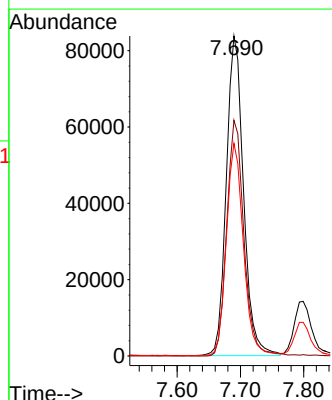
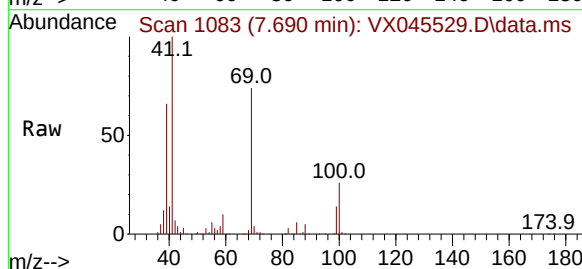
Tgt Ion: 41 Resp: 158241

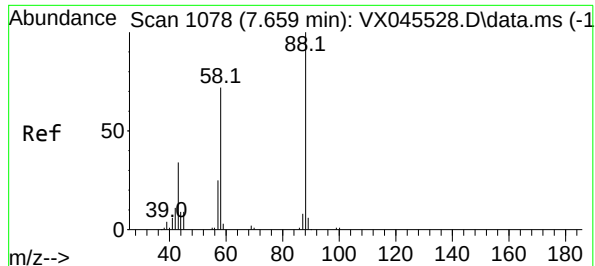
Ion Ratio Lower Upper

41 100

69 73.5 58.2 87.2

39 65.9 53.6 80.4





#49

1,4-Dioxane

Concen: 2015.906 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. 0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

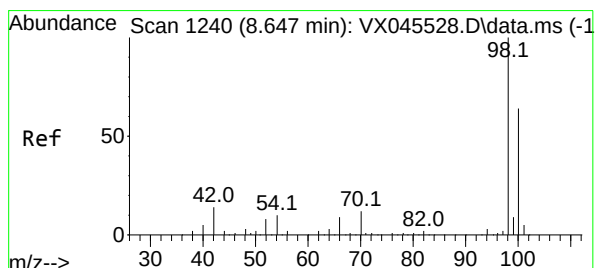
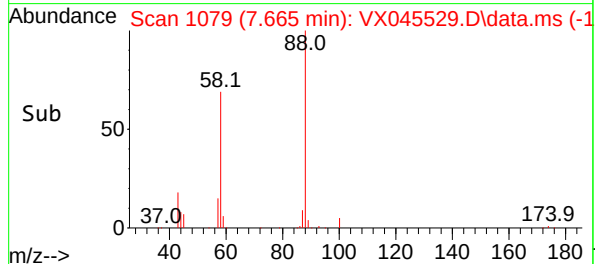
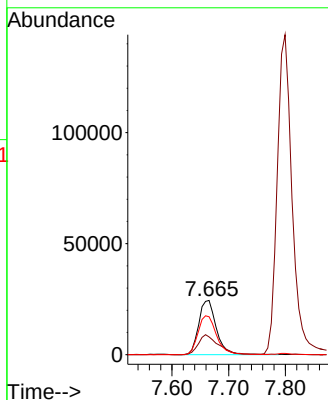
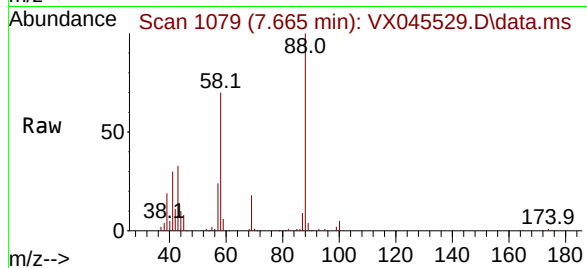
VSTDICC100

Tgt Ion:	88	Resp:	52624
Ion	Ratio	Lower	Upper
88	100		
43	42.4	32.2	48.4
58	75.5	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#50

Toluene-d8

Concen: 99.309 ug/l

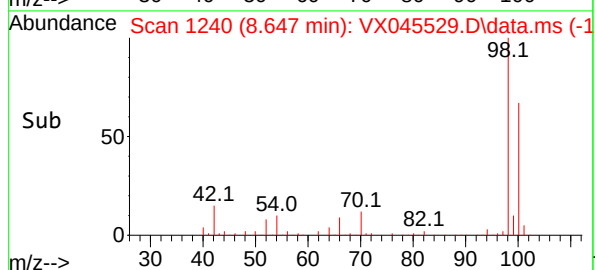
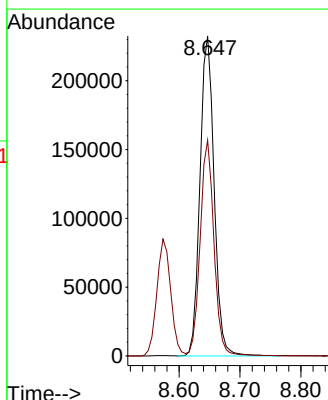
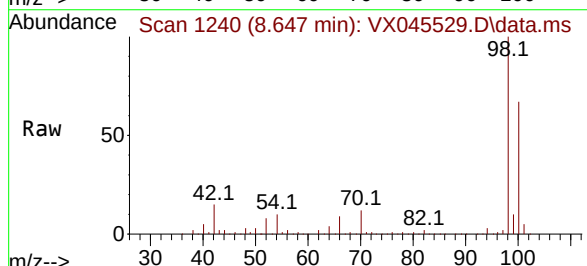
RT: 8.647 min Scan# 1240

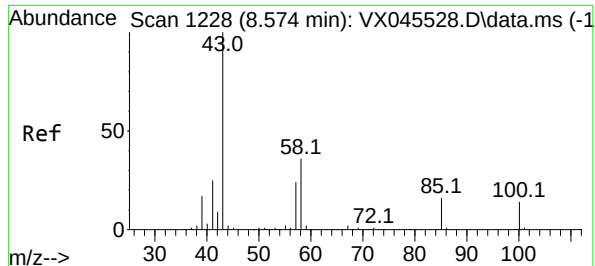
Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion:	98	Resp:	375599
Ion	Ratio	Lower	Upper
98	100		
100	65.7	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 533.814 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 98888

Ion Ratio Lower Upper

43 100

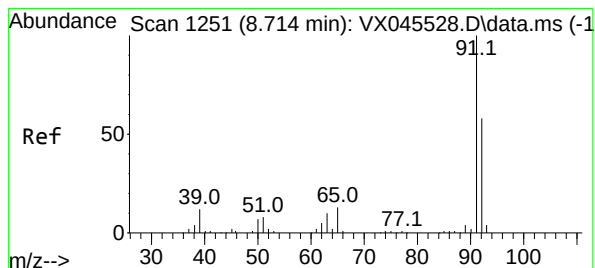
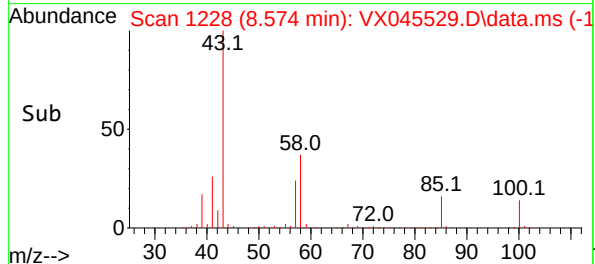
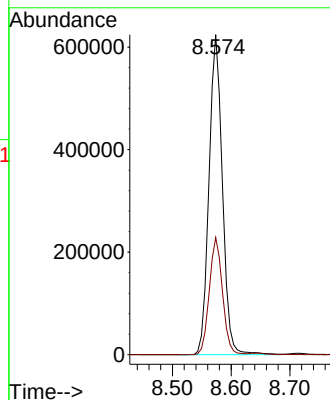
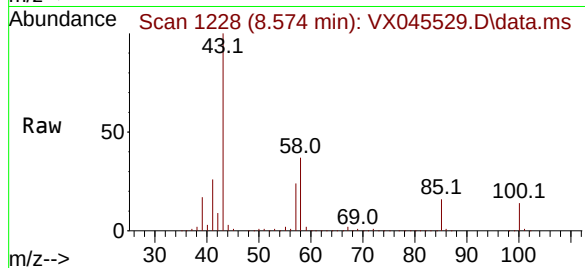
58 36.1 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#52

Toluene

Concen: 102.199 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX045529.D

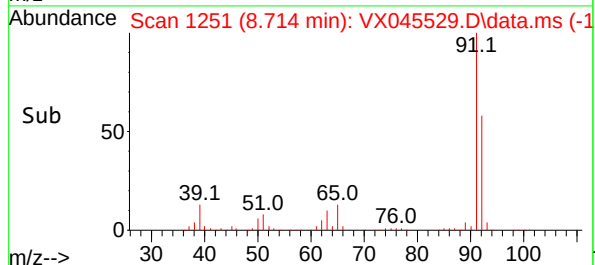
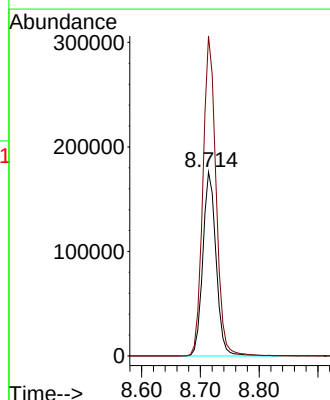
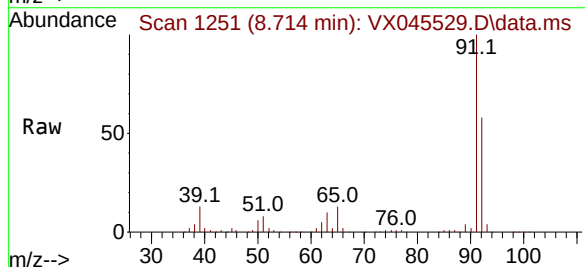
Acq: 01 Apr 2025 18:38

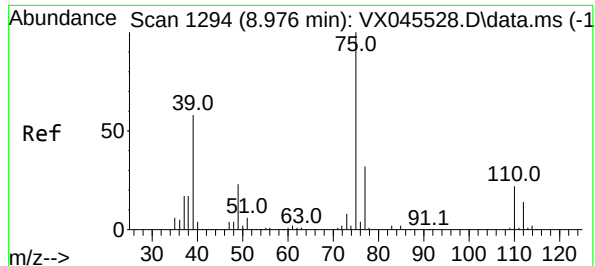
Tgt Ion: 92 Resp: 276323

Ion Ratio Lower Upper

92 100

91 172.5 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 100.645 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 75 Resp: 16941

Ion Ratio Lower Upper

75 100

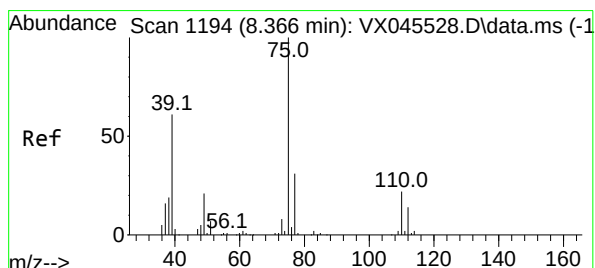
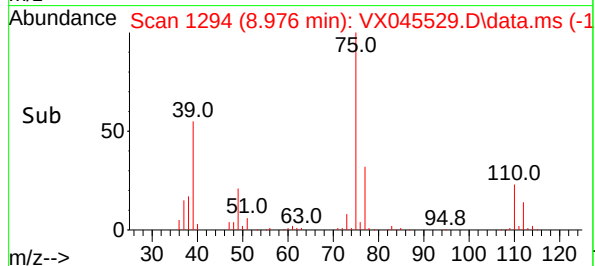
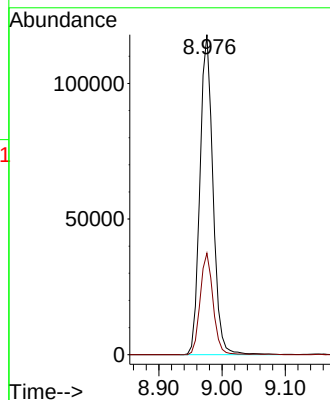
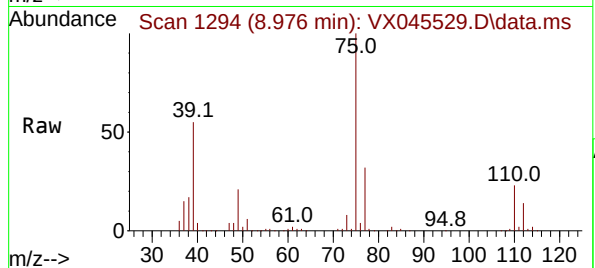
77 31.7 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#54

cis-1,3-Dichloropropene

Concen: 113.521 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

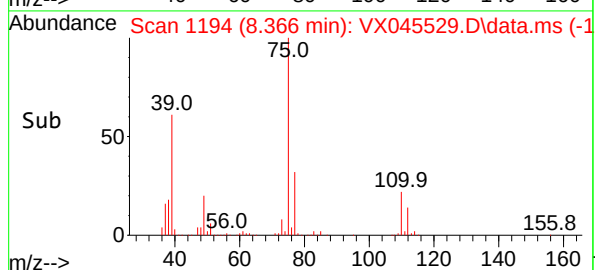
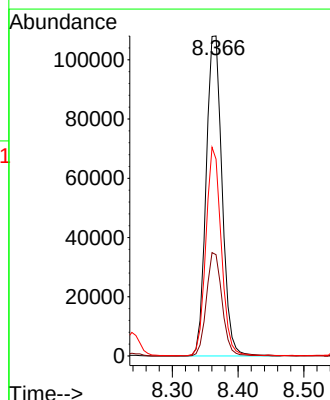
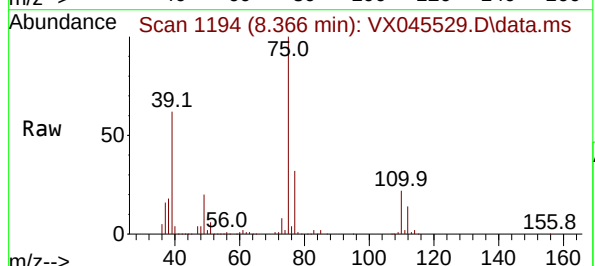
Tgt Ion: 75 Resp: 182328

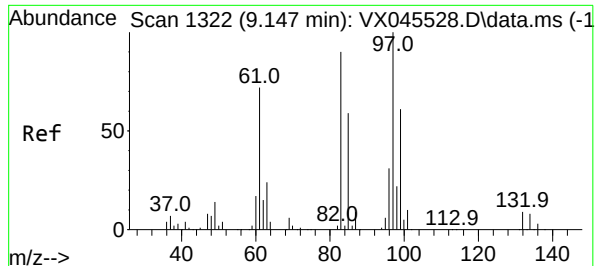
Ion Ratio Lower Upper

75 100

77 31.6 24.6 36.8

39 61.4 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 101.361 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 109208

Ion Ratio Lower Upper

97 100

83 90.8 71.8 107.8

85 58.2 47.0 70.6

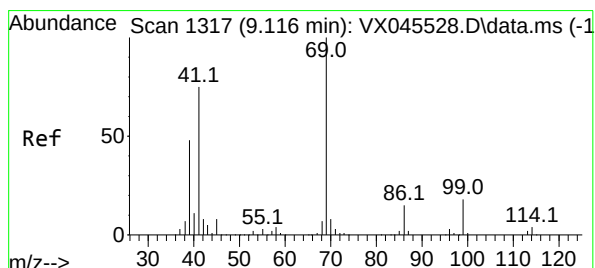
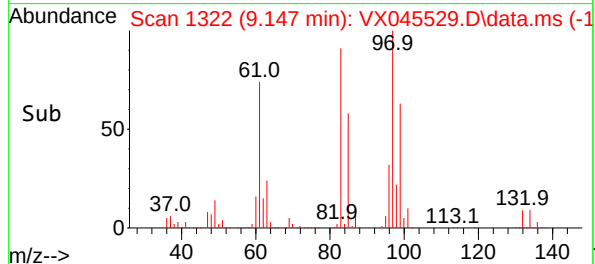
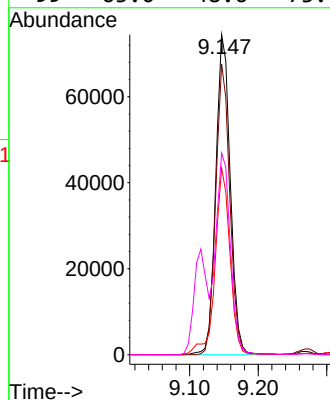
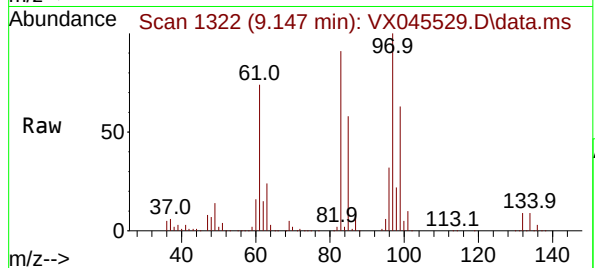
99 63.0 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#56

Ethyl methacrylate

Concen: 115.168 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

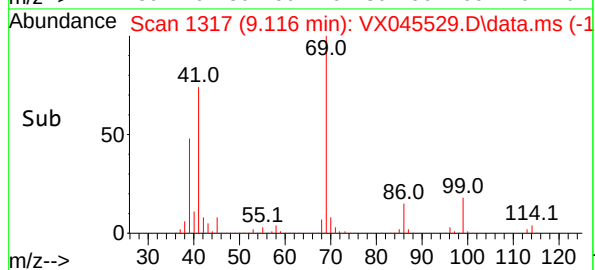
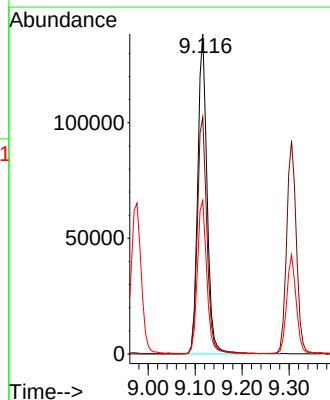
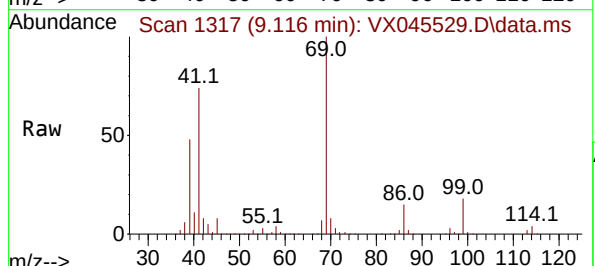
Tgt Ion: 69 Resp: 192034

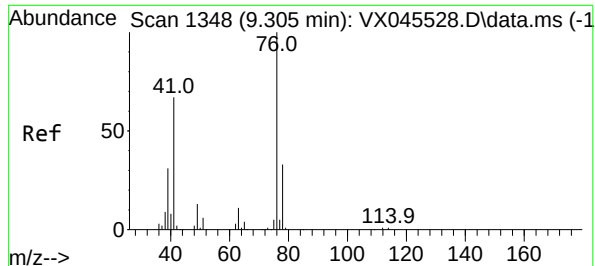
Ion Ratio Lower Upper

69 100

41 76.5 61.3 91.9

39 49.0 40.2 60.2





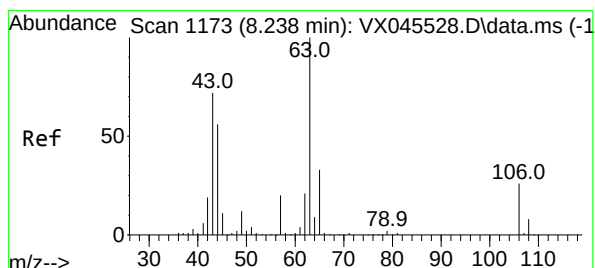
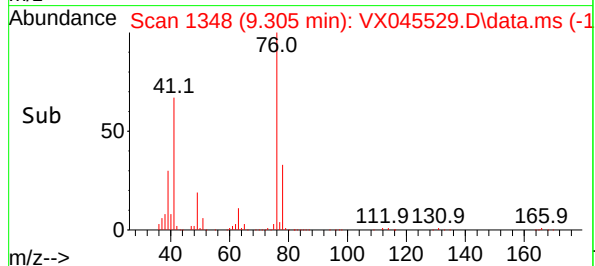
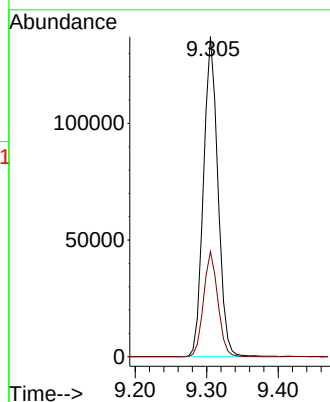
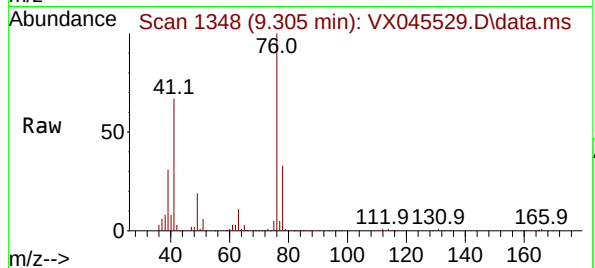
#57
1,3-Dichloropropane
Concen: 102.588 ug/l
RT: 9.305 min Scan# 11348
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 76 Resp: 19247
Ion Ratio Lower Upper
76 100
78 32.4 26.0 39.0

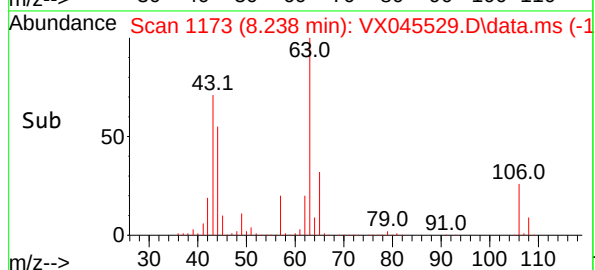
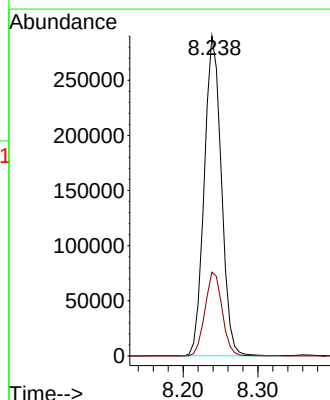
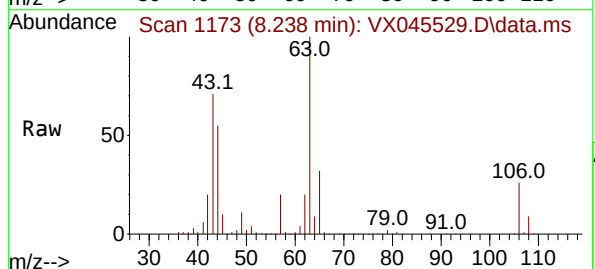
Manual Integrations
APPROVED

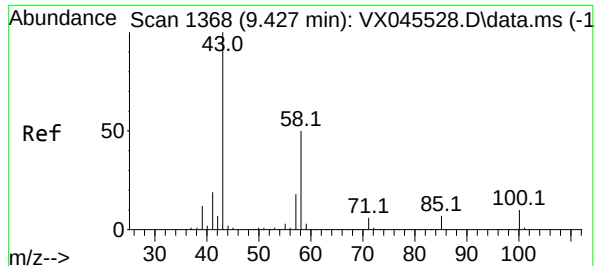
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#58
2-Chloroethyl Vinyl ether
Concen: 545.696 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 63 Resp: 460297
Ion Ratio Lower Upper
63 100
106 26.4 21.0 31.6





#59

2-Hexanone

Concen: 538.538 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 738772

Ion Ratio Lower Upper

43 100

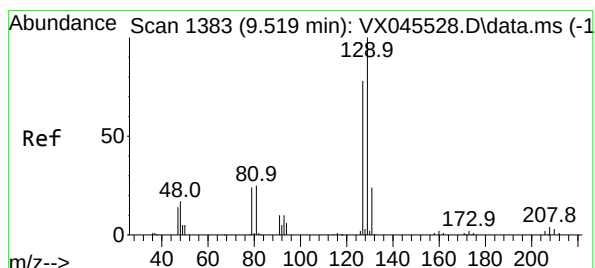
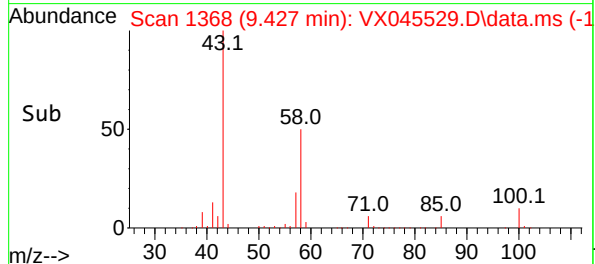
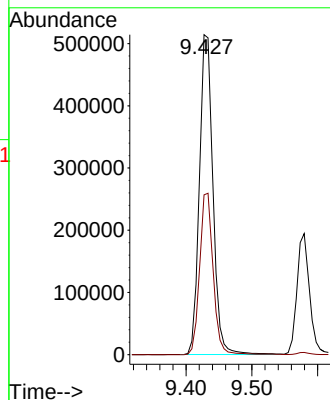
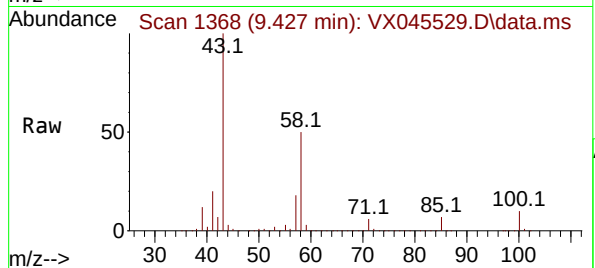
58 50.3 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#60

Dibromochloromethane

Concen: 109.570 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045529.D

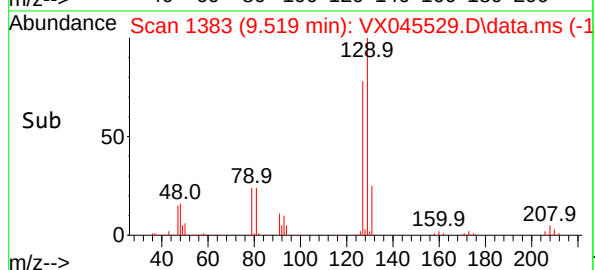
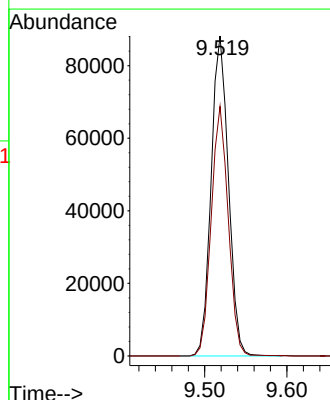
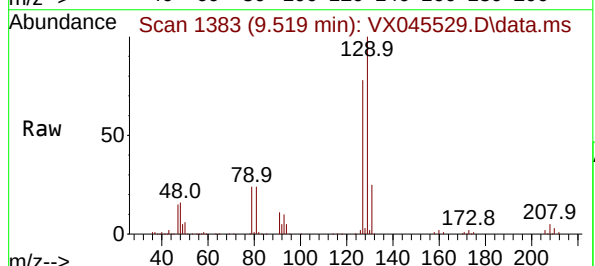
Acq: 01 Apr 2025 18:38

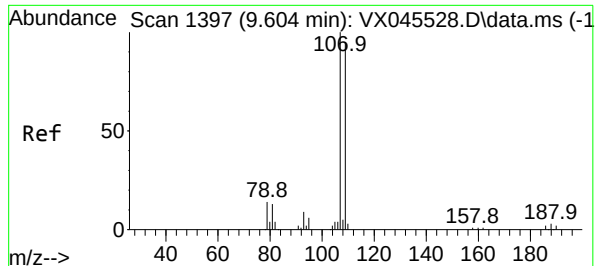
Tgt Ion:129 Resp: 128700

Ion Ratio Lower Upper

129 100

127 76.8 39.4 118.2





#61

1,2-Dibromoethane

Concen: 106.282 ug/l

RT: 9.604 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:107 Resp: 115919

Ion Ratio Lower Upper

107 100

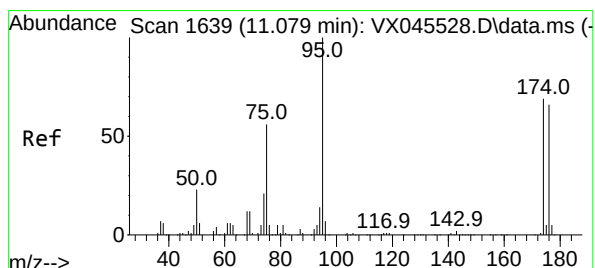
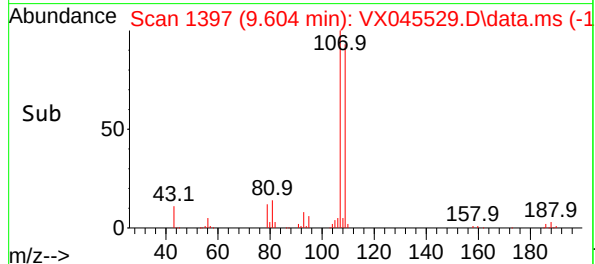
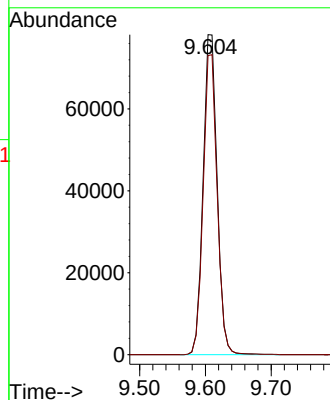
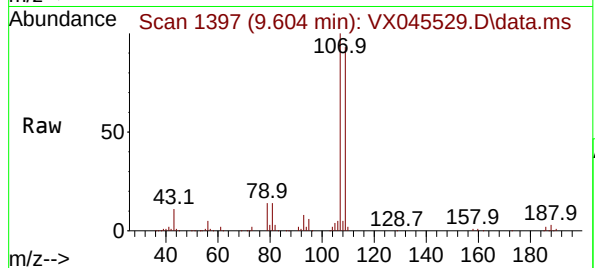
109 93.7 75.7 113.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#62

4-Bromofluorobenzene

Concen: 106.664 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

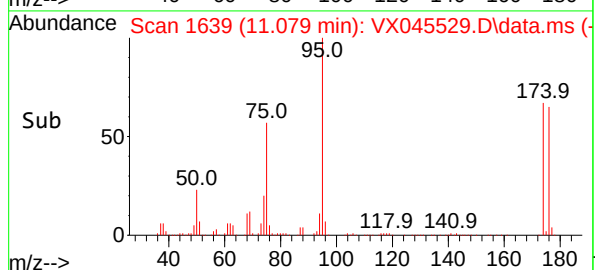
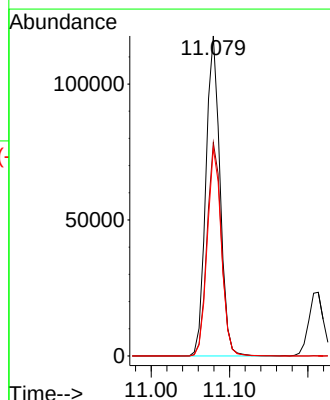
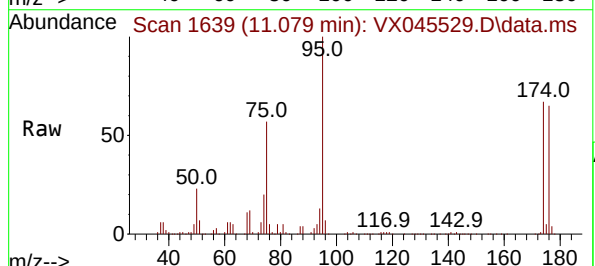
Tgt Ion: 95 Resp: 146944

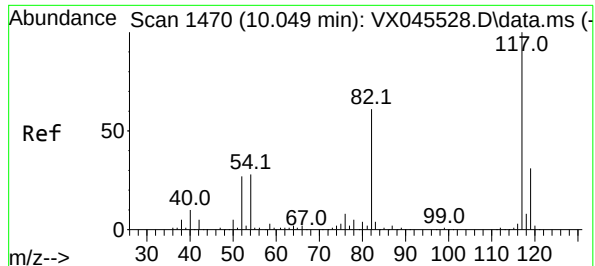
Ion Ratio Lower Upper

95 100

174 67.8 0.0 135.8

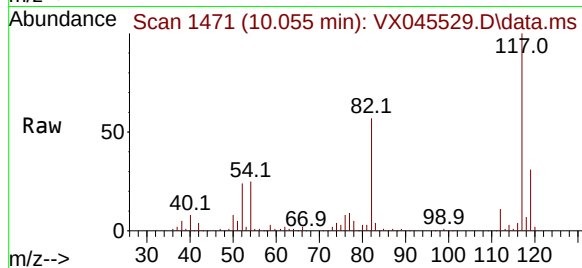
176 64.7 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.006 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

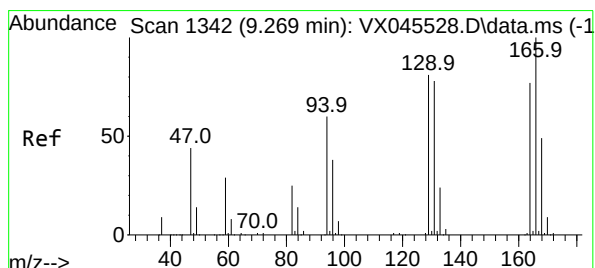
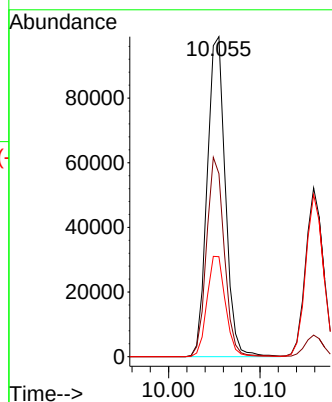
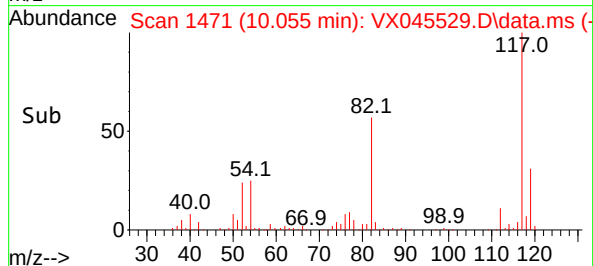
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:117 Resp: 136369
Ion Ratio Lower Upper
117 100
82 57.2 49.2 73.8
119 31.2 25.1 37.7

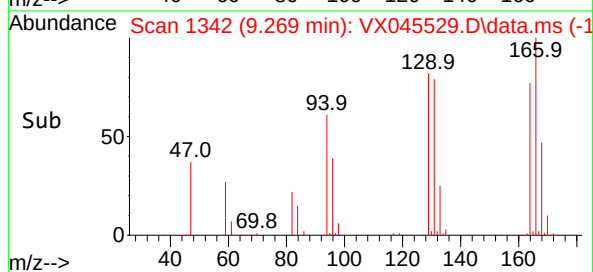
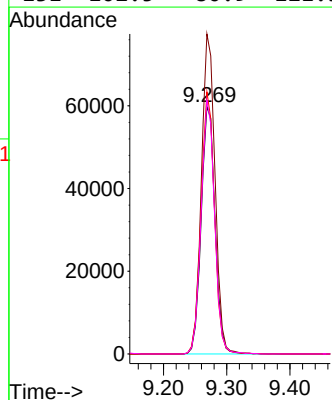
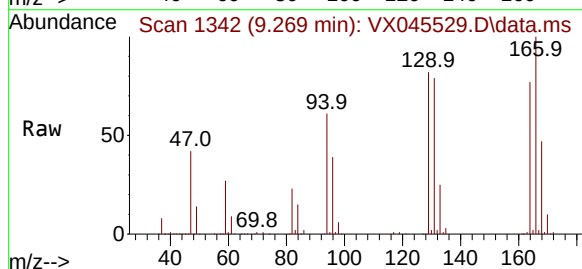
Manual Integrations
APPROVED

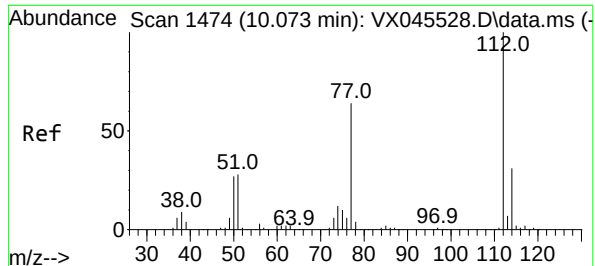
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#64
Tetrachloroethene
Concen: 94.325 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

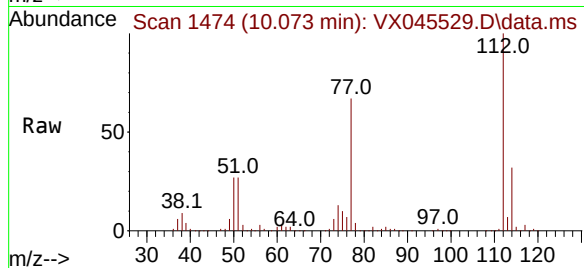
Tgt Ion:164 Resp: 90817
Ion Ratio Lower Upper
164 100
166 129.3 103.8 155.8
129 105.9 84.3 126.5
131 102.5 80.9 121.3





#65
Chlorobenzene
Concen: 101.682 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

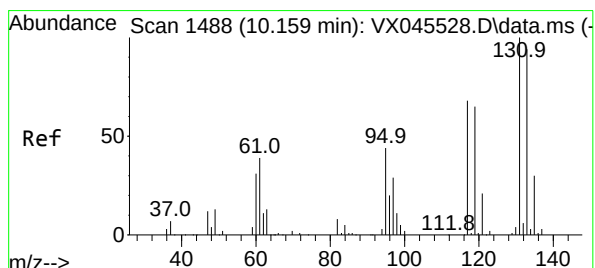
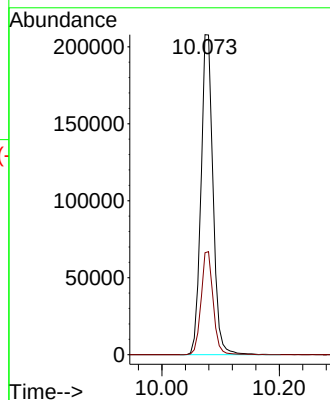
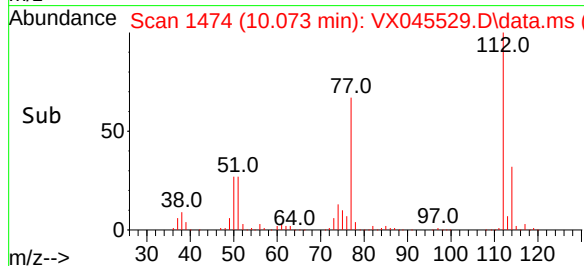
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:112 Resp: 296300
Ion Ratio Lower Upper
112 100
114 31.9 24.7 37.1

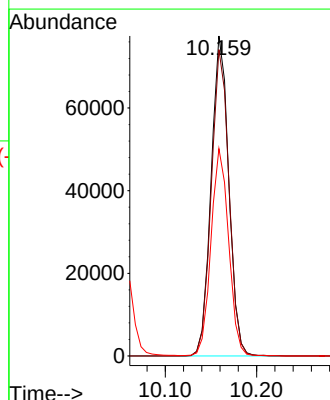
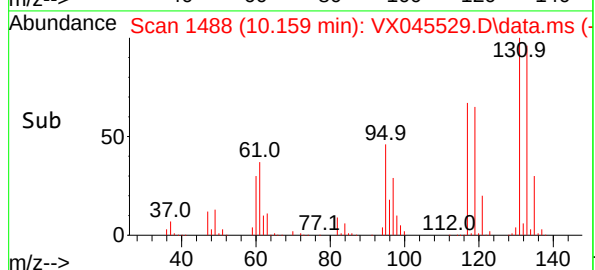
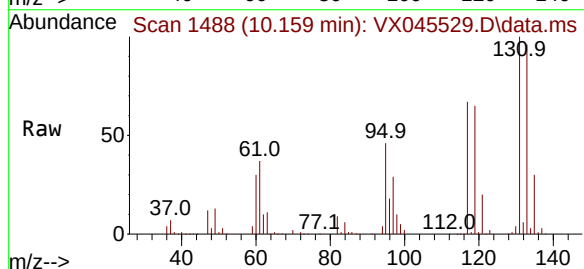
Manual Integrations
APPROVED

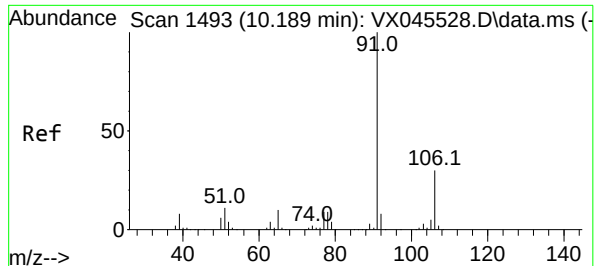
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 102.243 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:131 Resp: 103437
Ion Ratio Lower Upper
131 100
133 96.1 47.5 142.5
119 65.0 32.9 98.6





#67

Ethyl Benzene

Concen: 104.152 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 543568

Ion Ratio Lower Upper

91 100

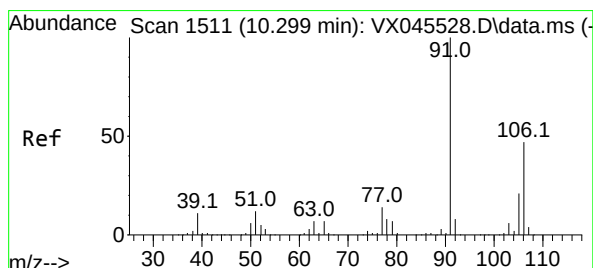
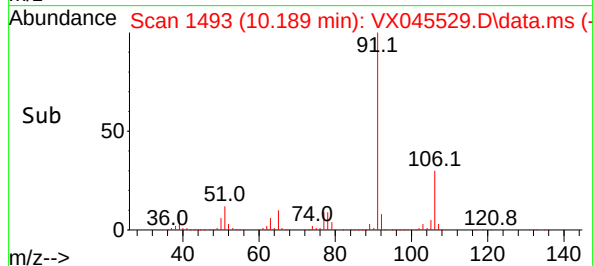
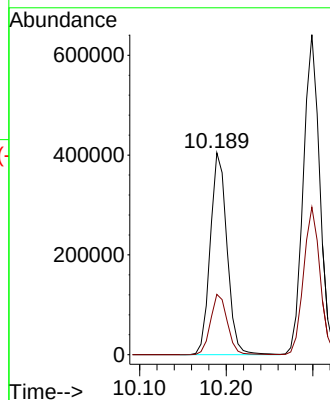
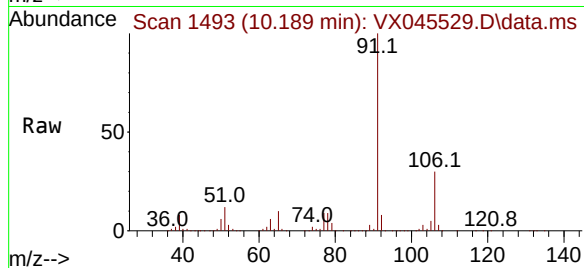
106 29.9 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#68

m/p-Xylenes

Concen: 207.694 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045529.D

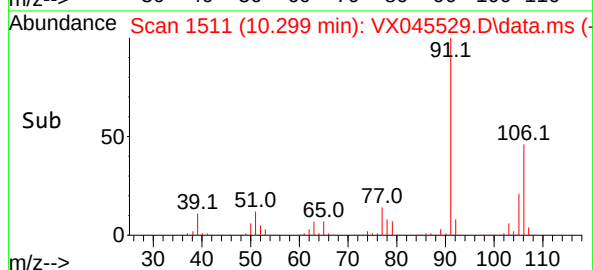
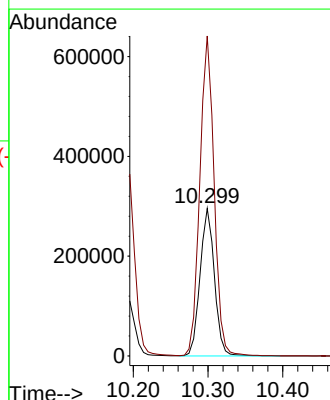
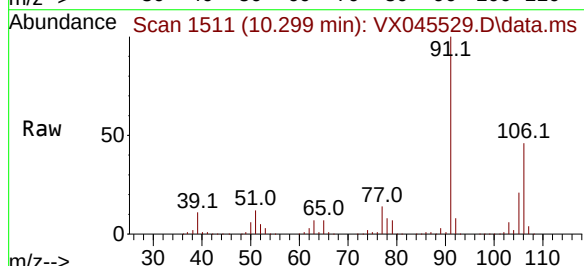
Acq: 01 Apr 2025 18:38

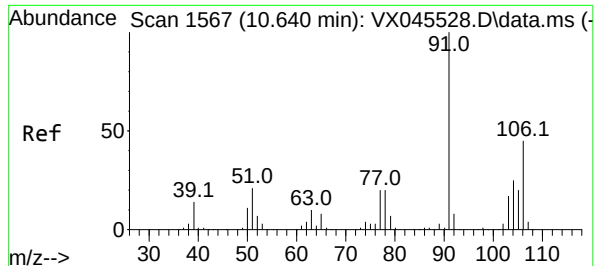
Tgt Ion:106 Resp: 394241

Ion Ratio Lower Upper

106 100

91 216.1 172.6 258.8





#69

o-Xylene

Concen: 104.487 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:106 Resp: 19538

Ion Ratio Lower Upper

106 100

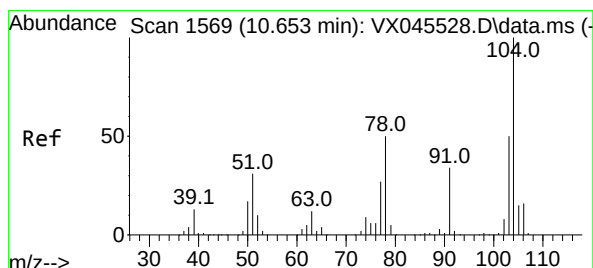
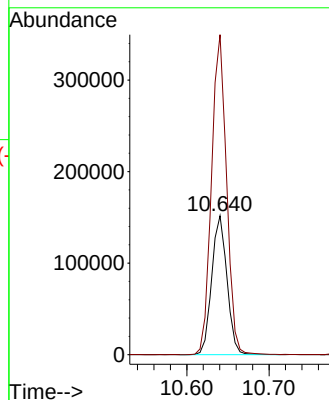
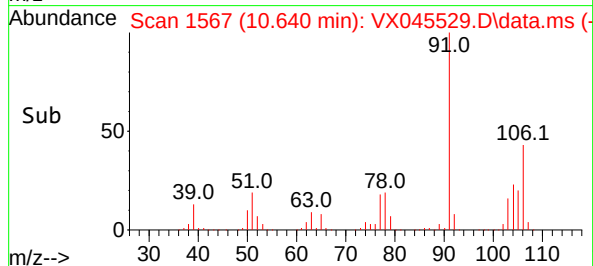
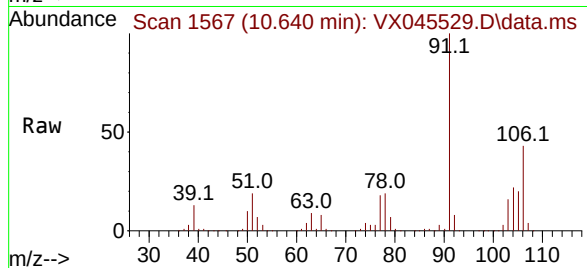
91 228.0 113.6 340.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#70

Styrene

Concen: 108.654 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

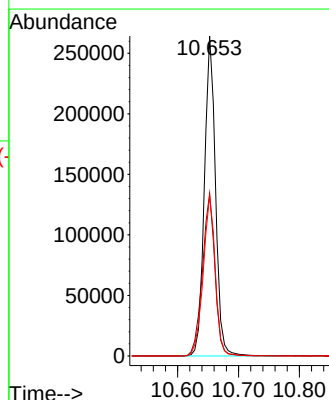
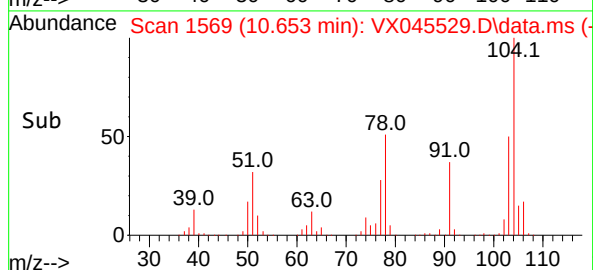
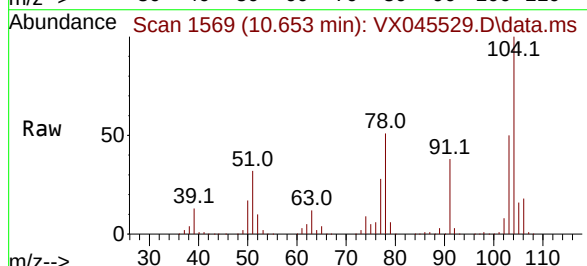
Tgt Ion:104 Resp: 335333

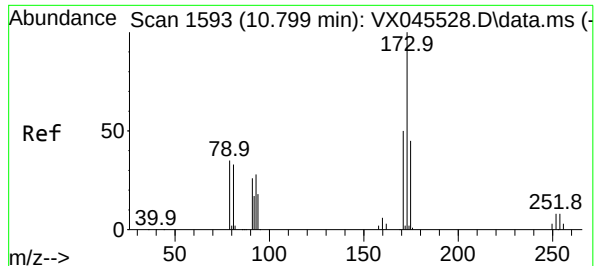
Ion Ratio Lower Upper

104 100

78 57.0 45.4 68.2

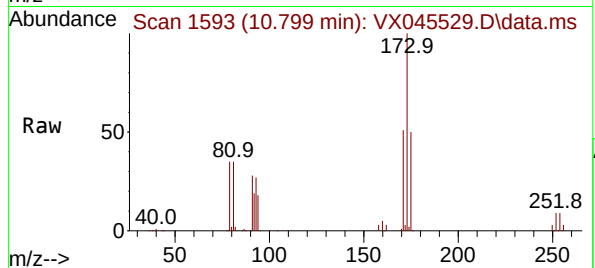
103 54.7 43.8 65.8





#71
Bromoform
Concen: 110.714 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

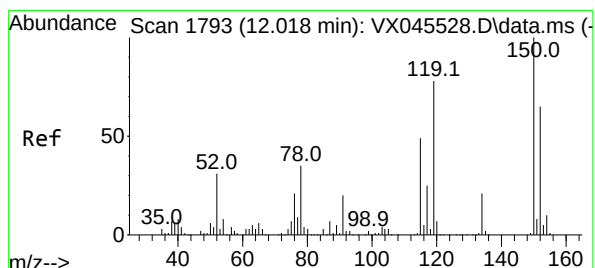
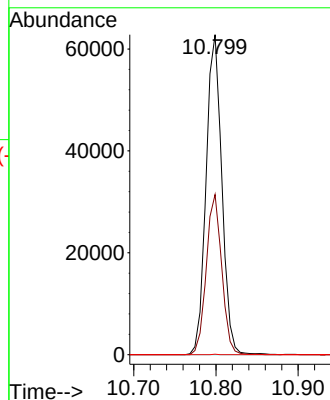
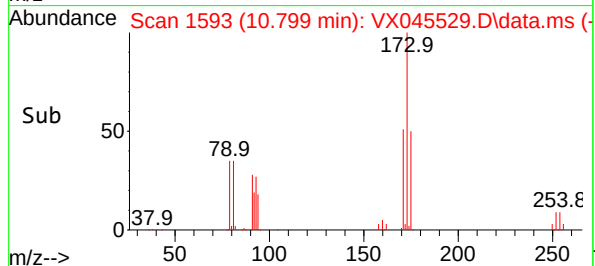
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 83632
Ion Ratio Lower Upper
173 100
175 49.0 23.4 70.2
254 0.0 0.0 0.0

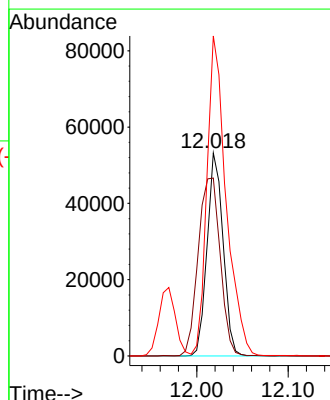
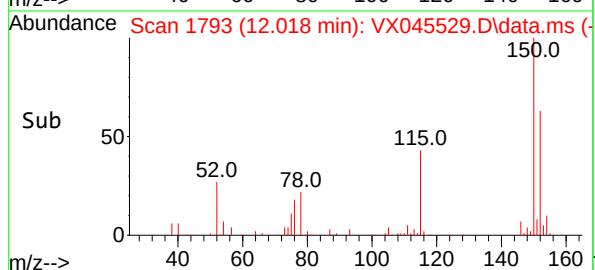
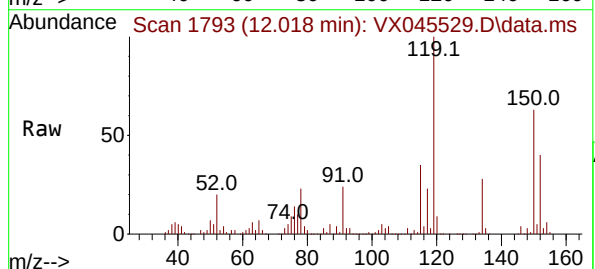
Manual Integrations
APPROVED

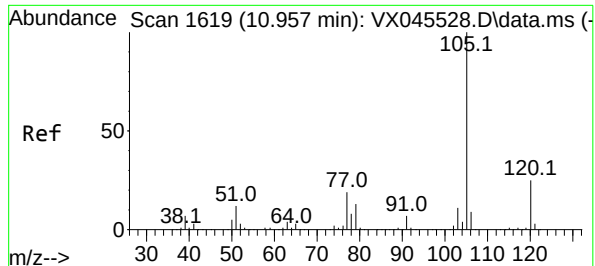
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:152 Resp: 64612
Ion Ratio Lower Upper
152 100
115 121.0 46.9 140.7
150 188.4 0.0 349.4





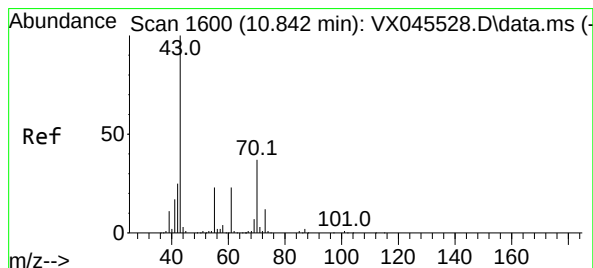
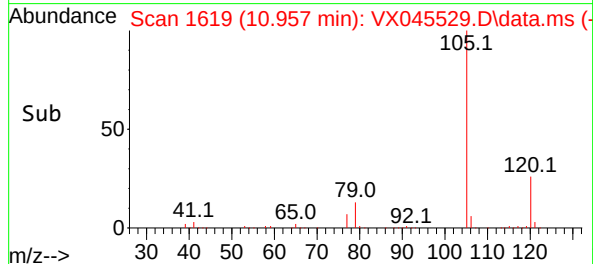
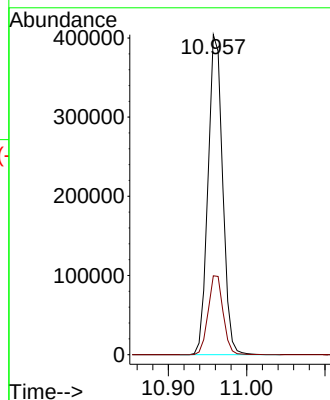
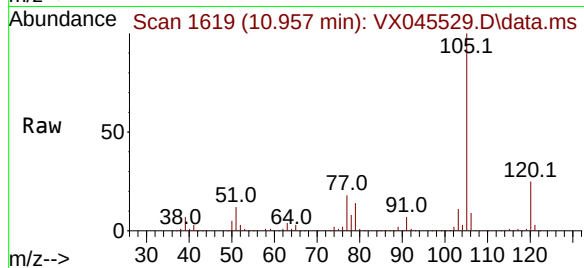
#73
Isopropylbenzene
Concen: 100.944 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 522430
Ion Ratio Lower Upper
105 100
120 25.2 12.7 38.0

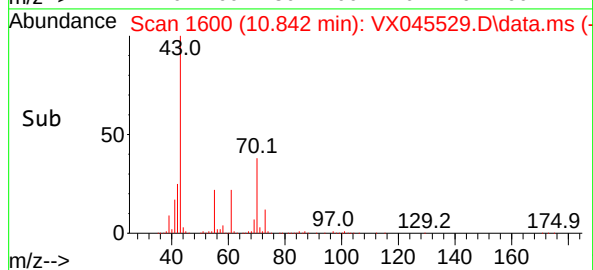
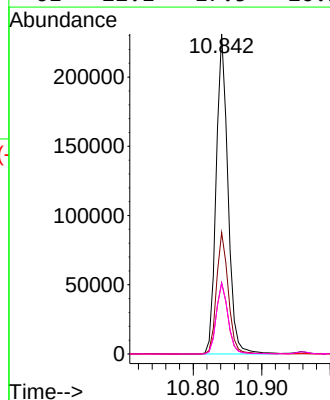
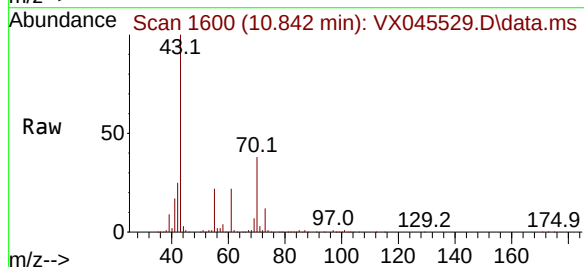
Manual Integrations
APPROVED

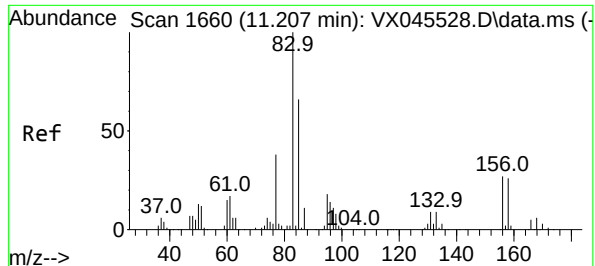
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#74
N-ethyl acetate
Concen: 111.267 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 43 Resp: 275462
Ion Ratio Lower Upper
43 100
70 38.1 30.1 45.1
55 22.4 18.3 27.5
61 22.1 17.5 26.3





#75

1,1,2-Tetrachloroethane

Concen: 96.243 ug/l

RT: 11.213 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

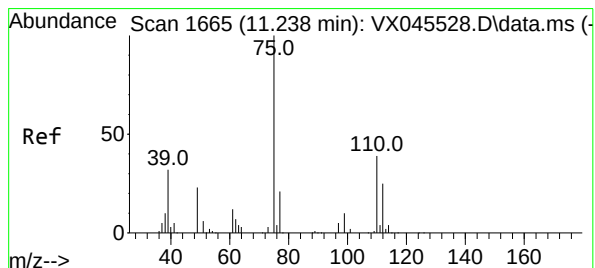
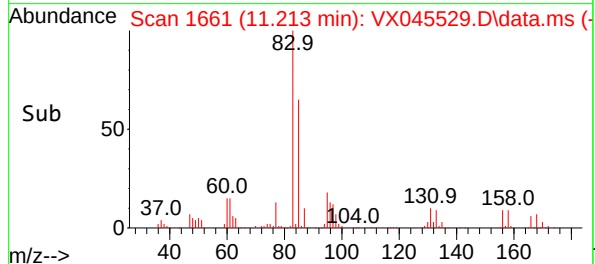
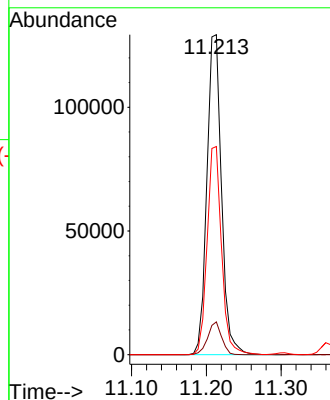
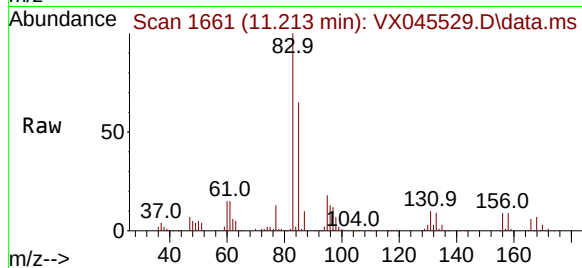
Tgt Ion:	83	Resp:	17497
Ion	Ratio	Lower	Upper
83	100		
131	9.8	4.7	14.1
85	64.3	32.4	97.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#76

1,2,3-Trichloropropane

Concen: 97.744 ug/l m

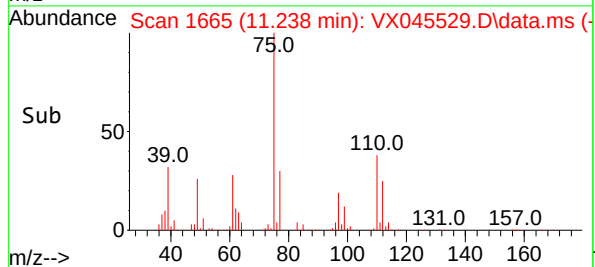
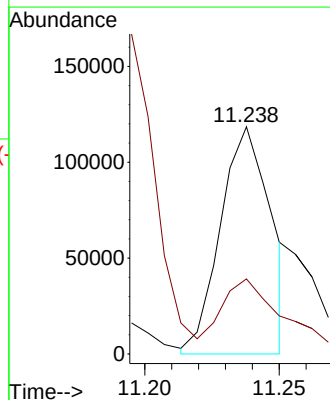
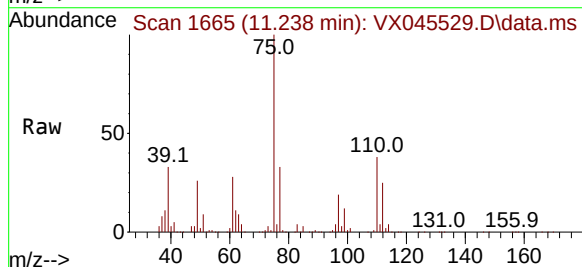
RT: 11.238 min Scan# 1665

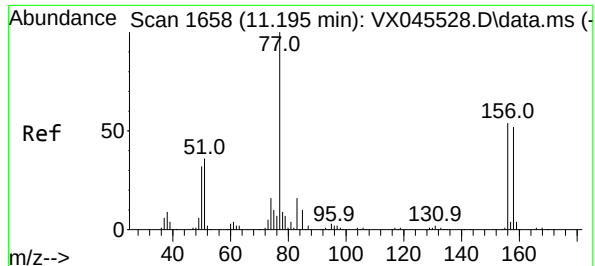
Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

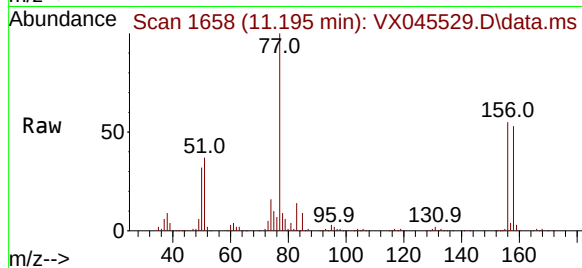
Tgt Ion:	75	Resp:	154048
Ion	Ratio	Lower	Upper
75	100		
77	41.8	20.0	59.9





#77
Bromobenzene
Concen: 99.983 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

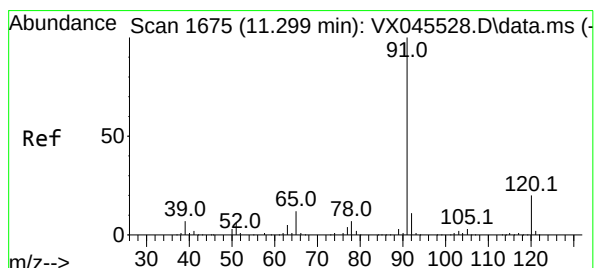
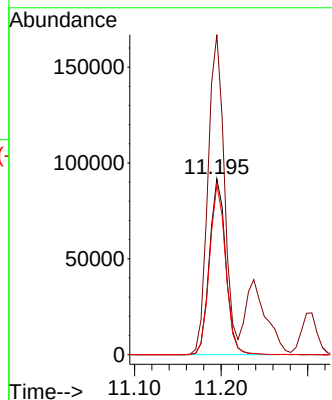
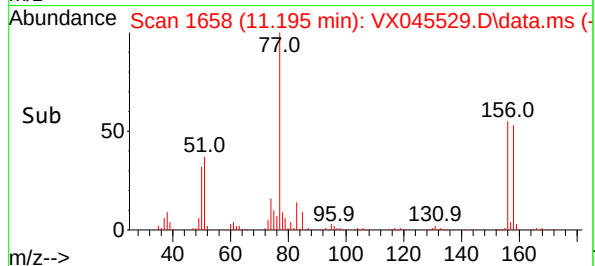
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



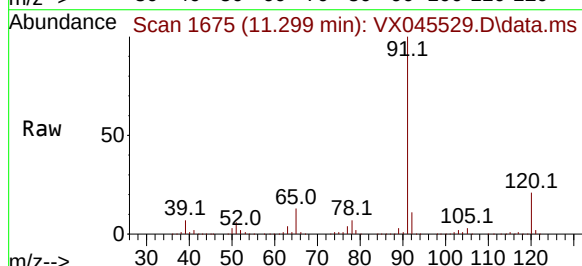
Tgt Ion: 156 Resp: 11956
Ion Ratio Lower Upper
156 100
77 183.4 92.6 277.8
158 95.9 48.1 144.4

Manual Integrations
APPROVED

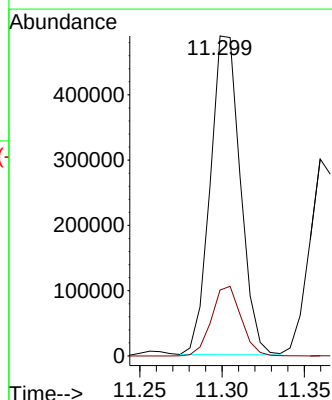
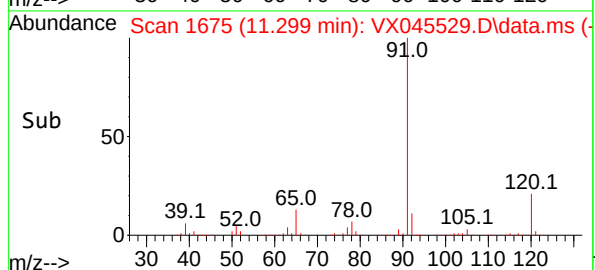
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

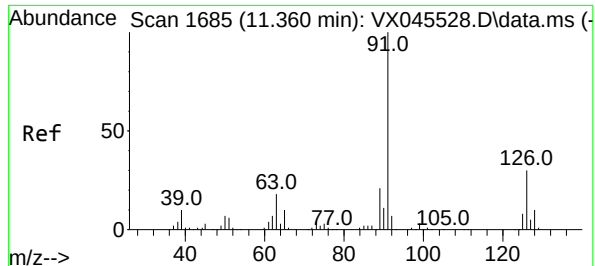


#78
n-propylbenzene
Concen: 104.454 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38



Tgt Ion: 91 Resp: 622679
Ion Ratio Lower Upper
91 100
120 21.5 10.8 32.3





#79

2-Chlorotoluene

Concen: 98.840 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 37668

Ion Ratio Lower Upper

91 100

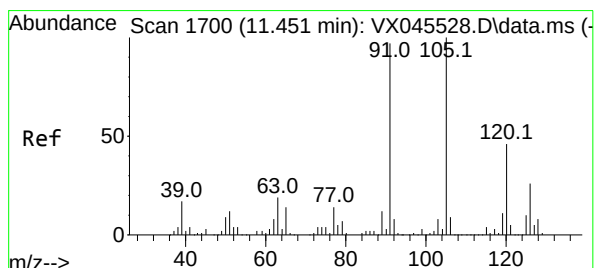
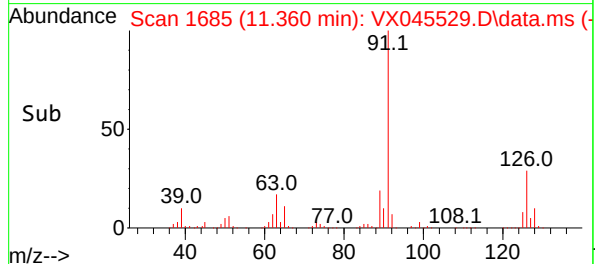
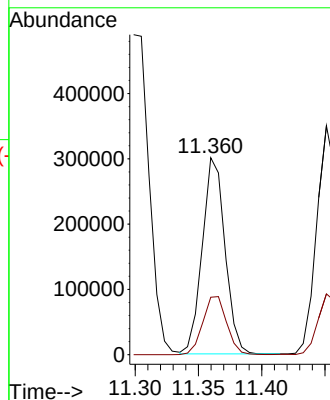
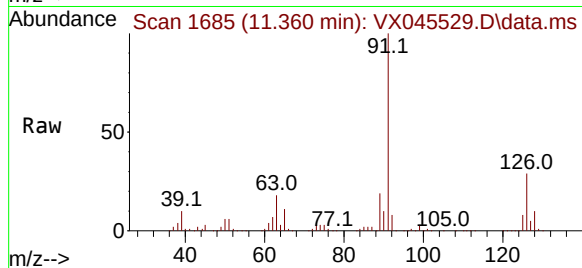
126 31.2 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#80

1,3,5-Trimethylbenzene

Concen: 101.675 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045529.D

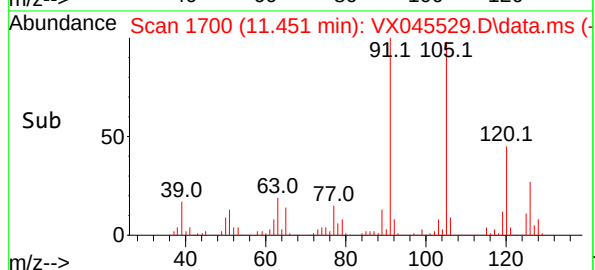
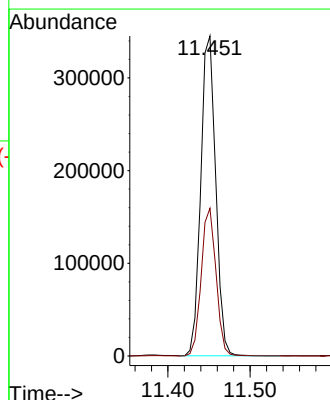
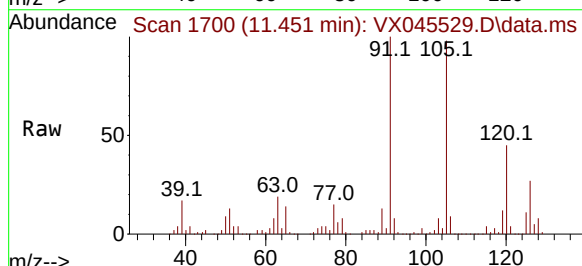
Acq: 01 Apr 2025 18:38

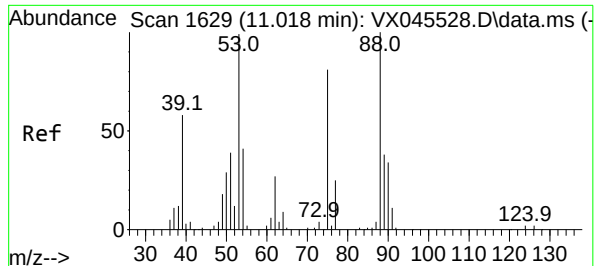
Tgt Ion:105 Resp: 435137

Ion Ratio Lower Upper

105 100

120 45.9 23.0 69.0





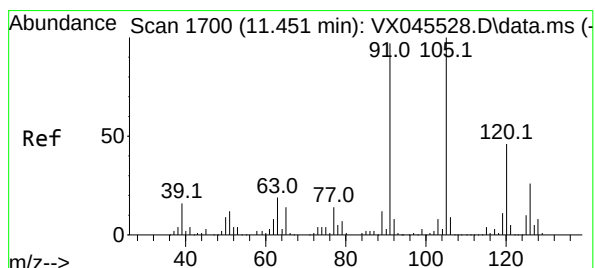
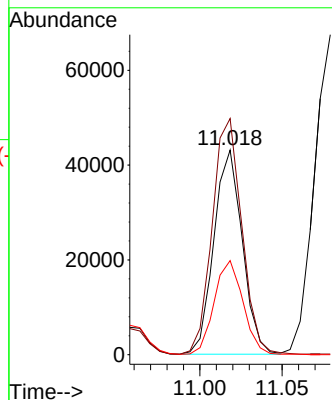
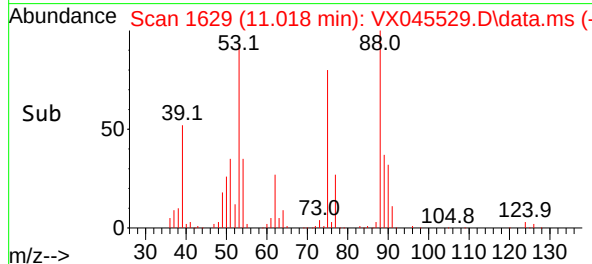
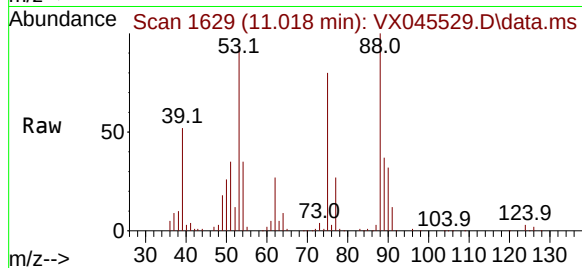
#81
trans-1,4-Dichloro-2-butene
Concen: 111.704 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 5187
Ion Ratio Lower Upper
75 100
53 119.5 101.8 152.6
89 46.9 37.2 55.8

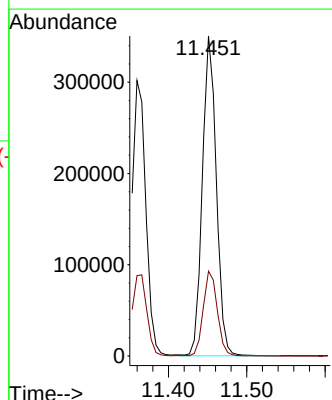
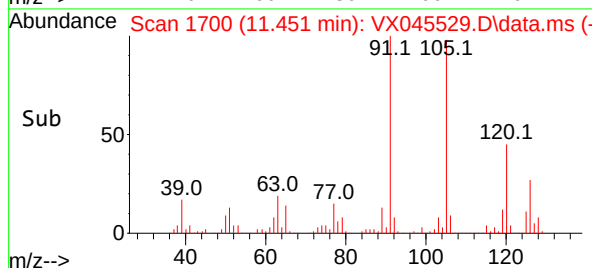
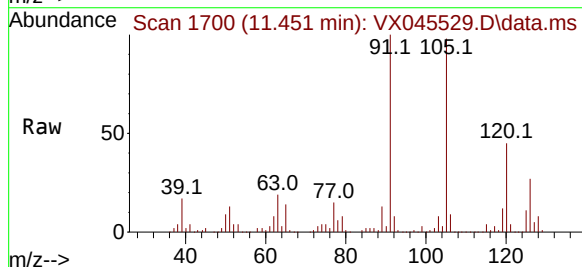
Manual Integrations
APPROVED

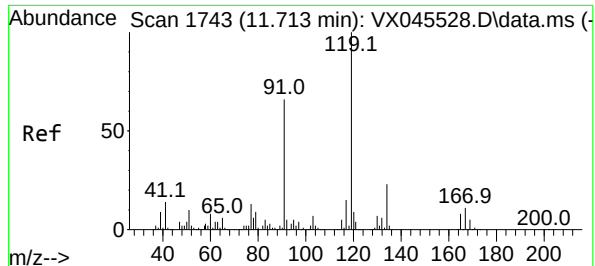
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#82
4-Chlorotoluene
Concen: 101.877 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 91 Resp: 432884
Ion Ratio Lower Upper
91 100
126 26.9 13.3 39.9





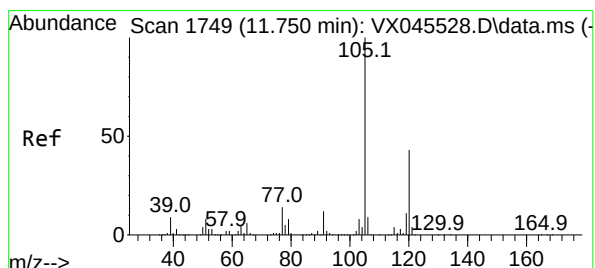
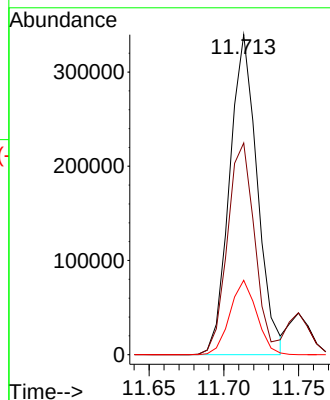
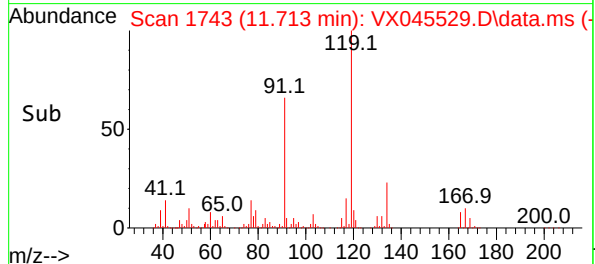
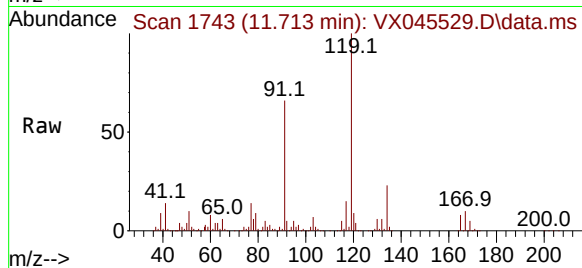
#83
tert-Butylbenzene
Concen: 103.292 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:119 Resp: 437649
Ion Ratio Lower Upper
119 100
91 65.8 32.4 97.2
134 22.4 11.5 34.5

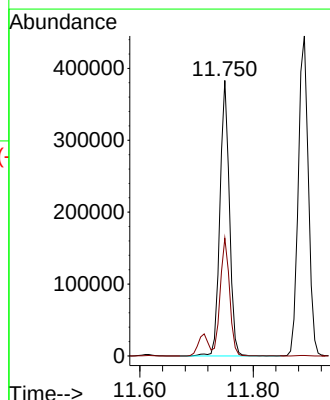
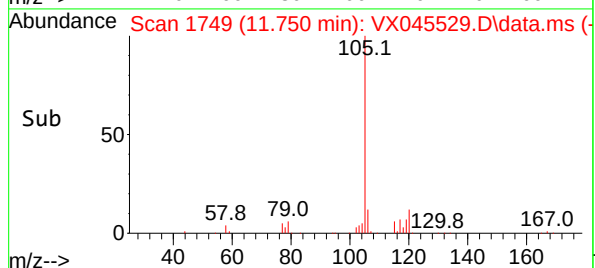
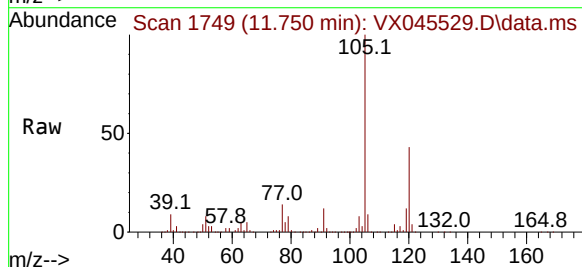
Manual Integrations
APPROVED

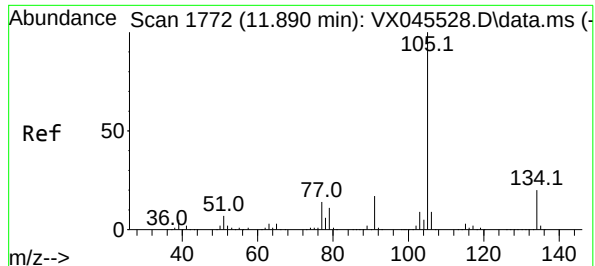
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#84
1,2,4-Trimethylbenzene
Concen: 103.414 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:105 Resp: 444211
Ion Ratio Lower Upper
105 100
120 42.4 21.4 64.3





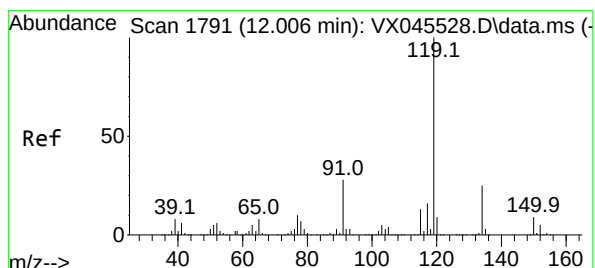
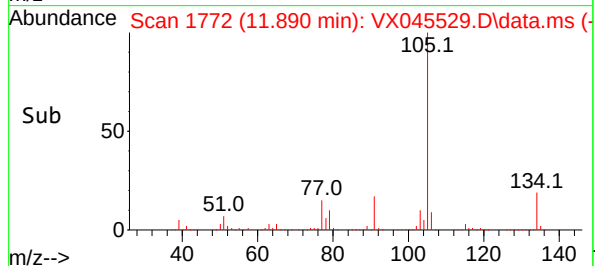
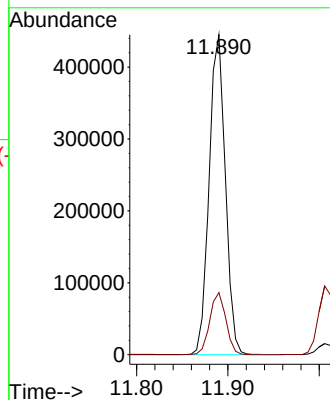
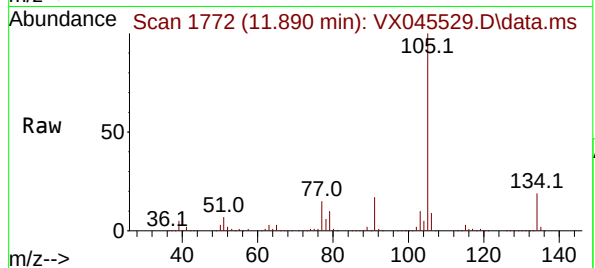
#85
sec-Butylbenzene
Concen: 105.082 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:105 Resp: 54685
Ion Ratio Lower Upper
105 100
134 19.3 9.6 28.6

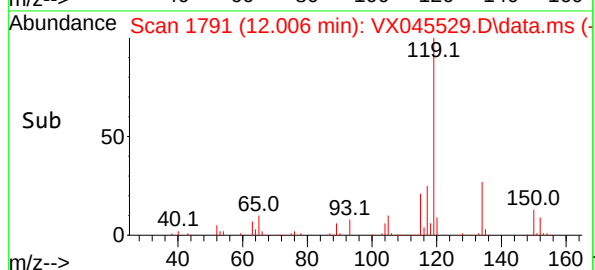
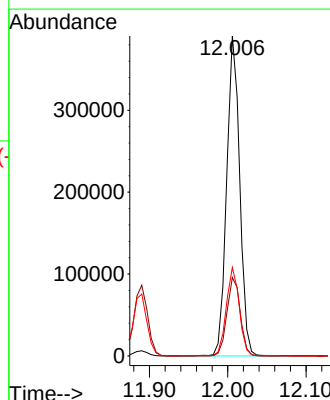
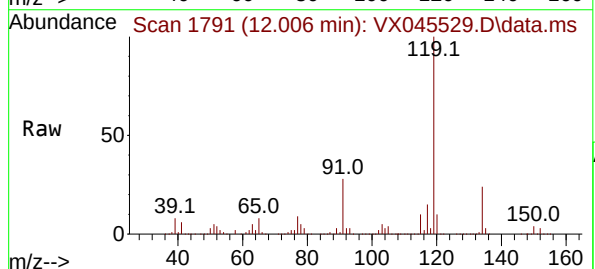
Manual Integrations
APPROVED

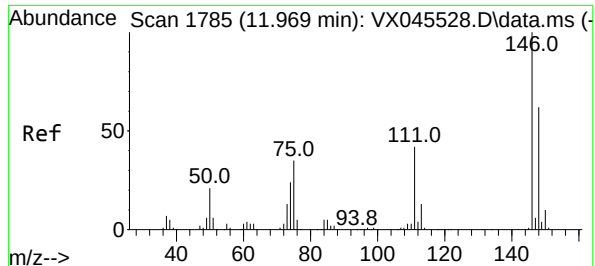
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#86
p-Isopropyltoluene
Concen: 105.609 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion:119 Resp: 453109
Ion Ratio Lower Upper
119 100
134 25.1 12.6 37.8
91 27.4 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 101.749 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:146 Resp: 22148

Ion Ratio Lower Upper

146 100

111 44.1 22.2 66.6

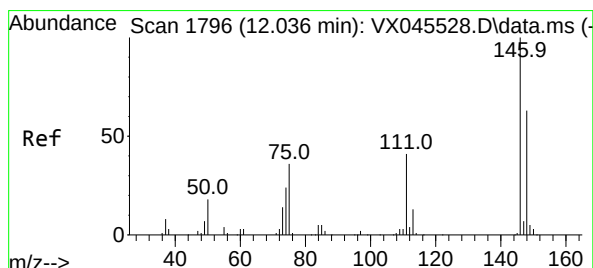
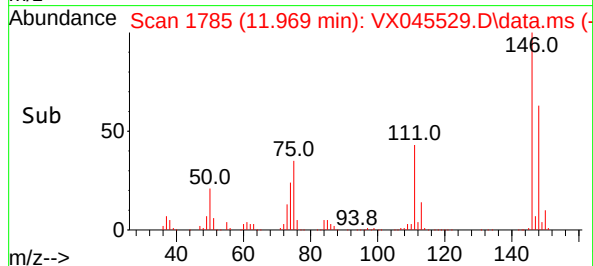
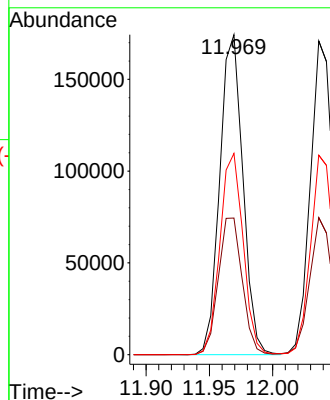
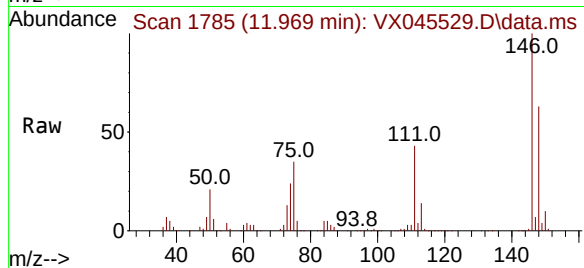
148 63.1 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 98.047 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

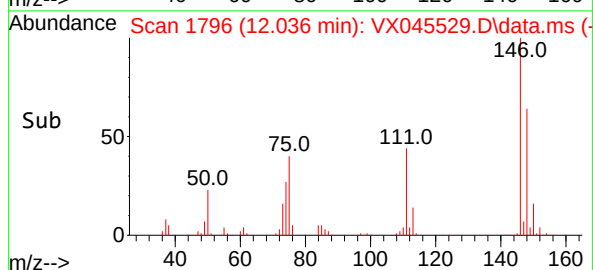
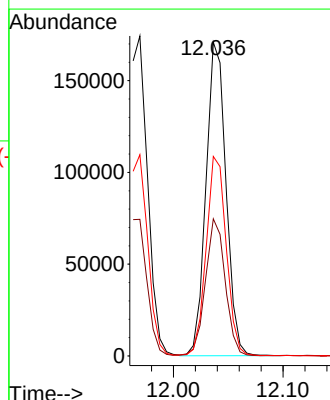
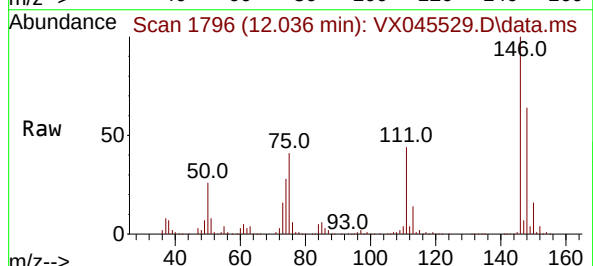
Tgt Ion:146 Resp: 216367

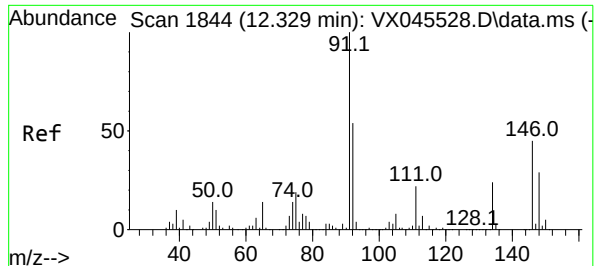
Ion Ratio Lower Upper

146 100

111 43.2 20.9 62.8

148 64.0 31.5 94.5





#89

n-Butylbenzene

Concen: 113.075 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

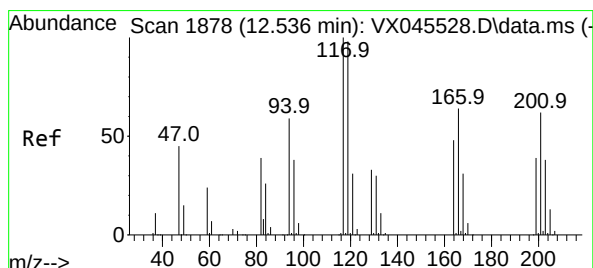
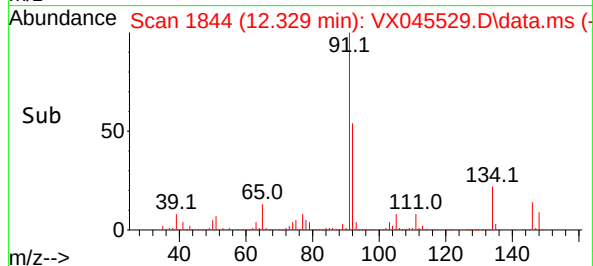
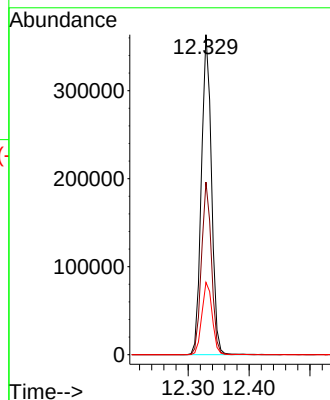
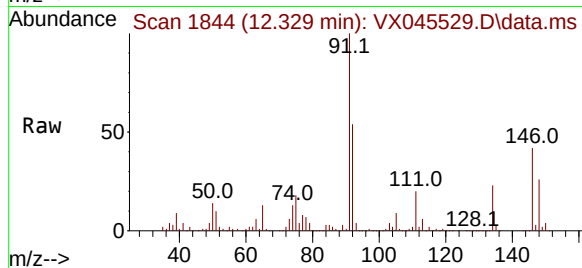
Tgt Ion: 91 Resp: 420694

Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.9	80.6
134	23.1	11.9	35.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 109.160 ug/l

RT: 12.536 min Scan# 1878

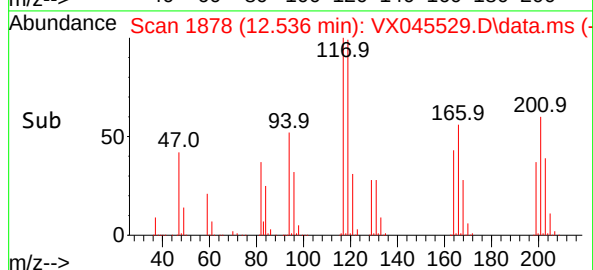
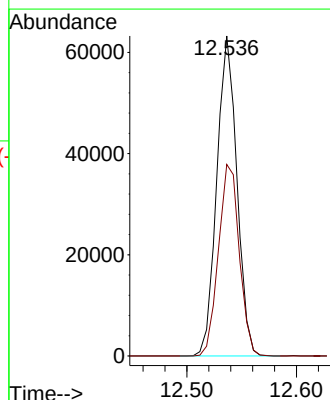
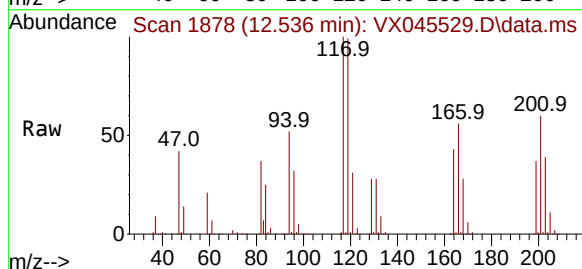
Delta R.T. 0.000 min

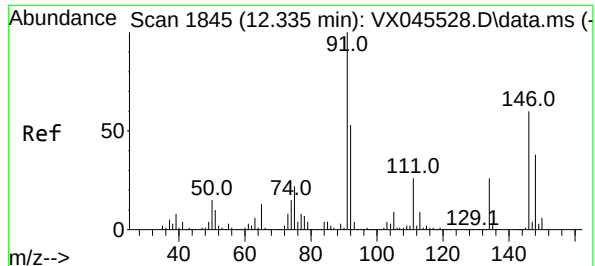
Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion:117 Resp: 80489

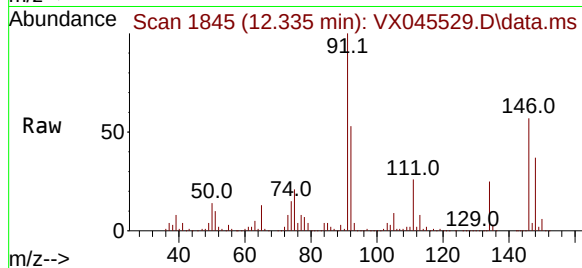
Ion	Ratio	Lower	Upper
117	100		
201	62.1	31.2	93.6





#91
1,2-Dichlorobenzene
Concen: 99.419 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

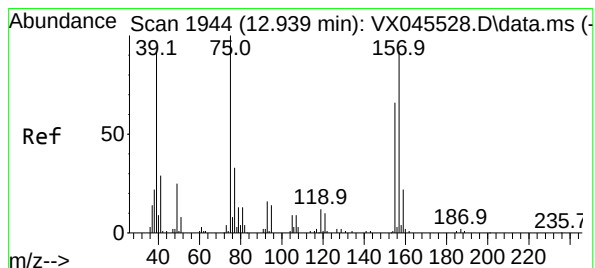
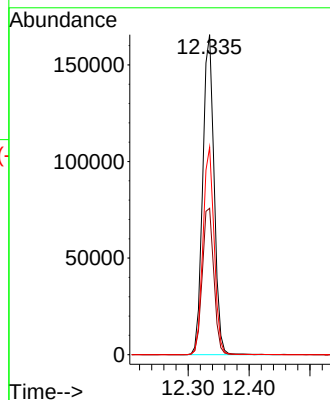
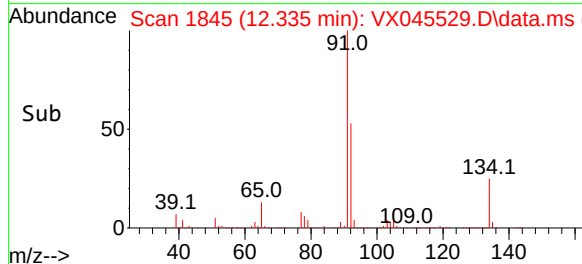
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 21515
Ion Ratio Lower Upper
146 100
111 46.6 22.9 68.8
148 63.7 31.9 95.5

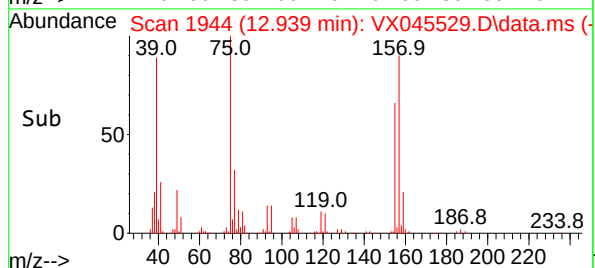
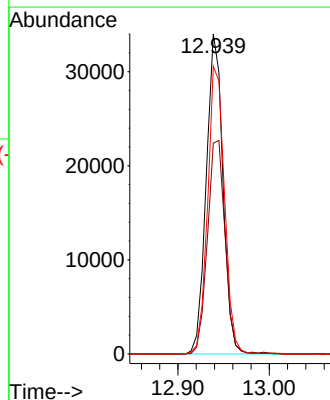
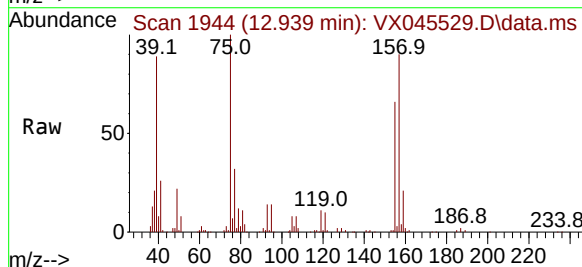
Manual Integrations
APPROVED

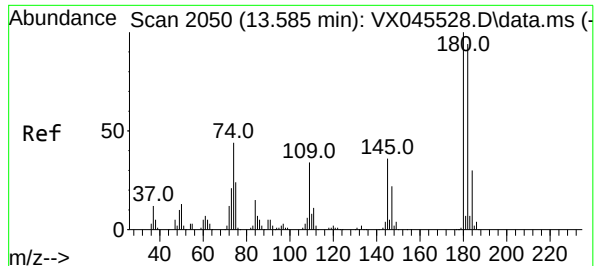
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 113.214 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045529.D
Acq: 01 Apr 2025 18:38

Tgt Ion: 75 Resp: 43047
Ion Ratio Lower Upper
75 100
155 70.2 34.9 104.7
157 90.6 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 112.106 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

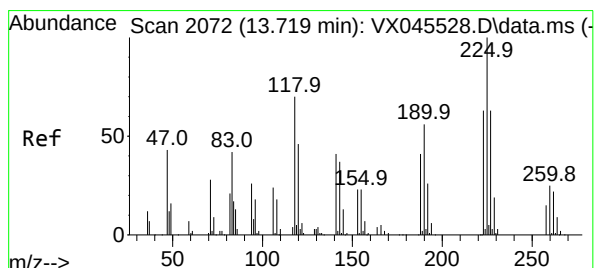
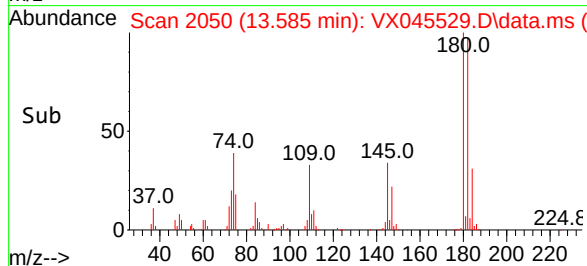
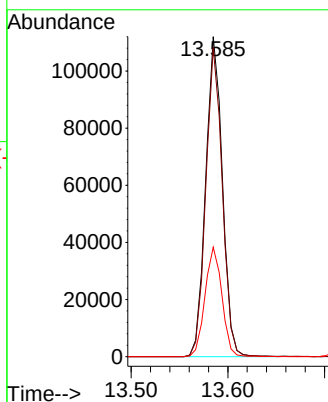
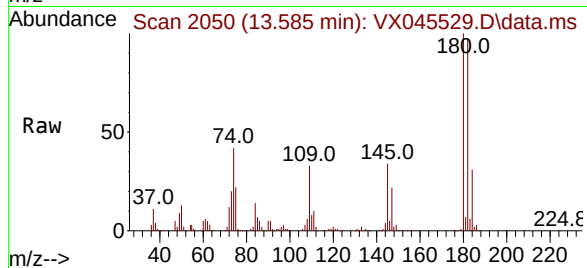
VSTDICC100

Tgt Ion:180	Resp:	135040
Ion Ratio	Lower	Upper
180	100	
182	95.1	47.9 143.6
145	34.6	17.9 53.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#94

Hexachlorobutadiene

Concen: 103.326 ug/l

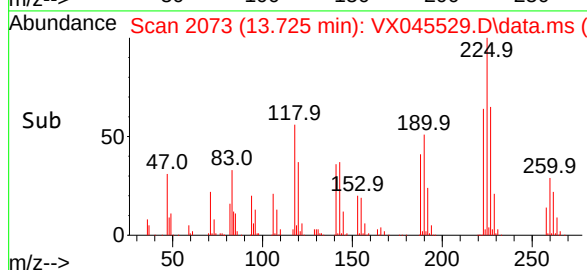
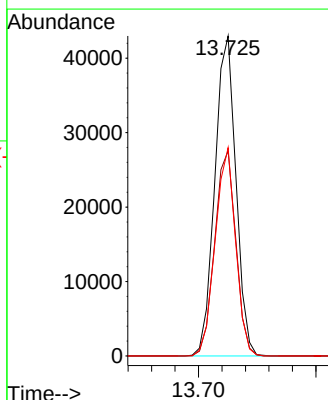
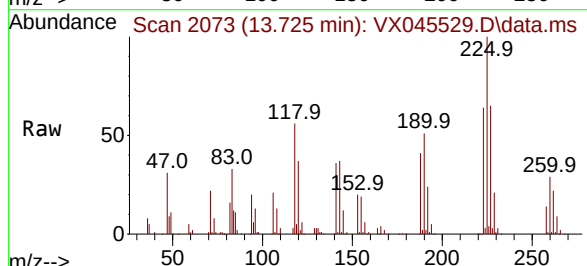
RT: 13.725 min Scan# 2073

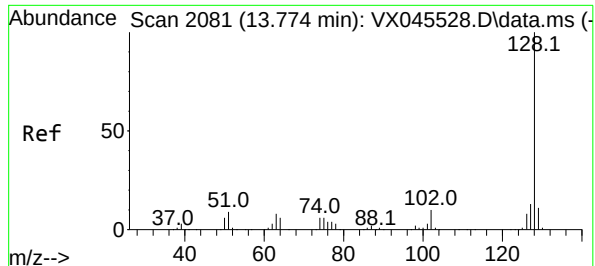
Delta R.T. 0.006 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Tgt Ion:225	Resp:	53636
Ion Ratio	Lower	Upper
225	100	
223	64.2	31.1 93.3
227	62.9	32.2 96.6





#95

Naphthalene

Concen: 111.473 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:128 Resp: 499719

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

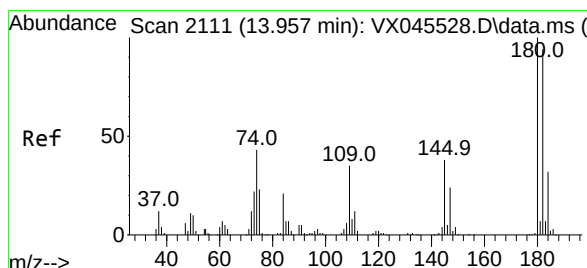
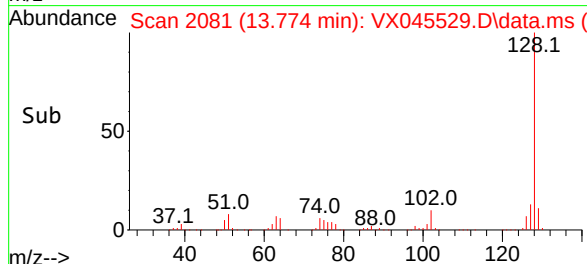
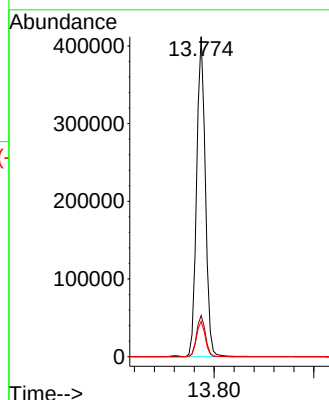
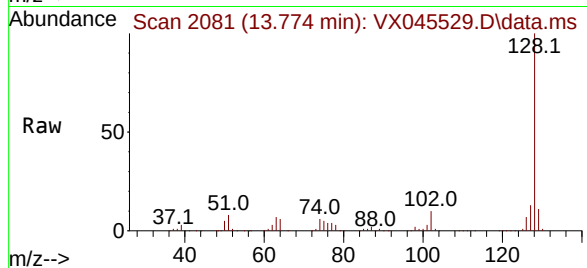
129 11.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#96

1,2,3-Trichlorobenzene

Concen: 108.869 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX045529.D

Acq: 01 Apr 2025 18:38

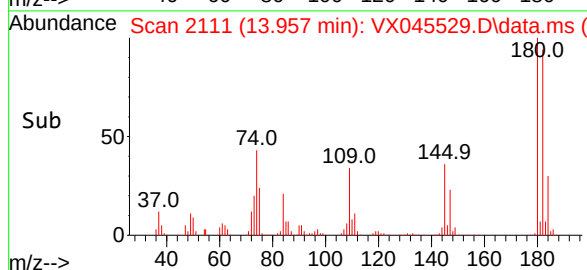
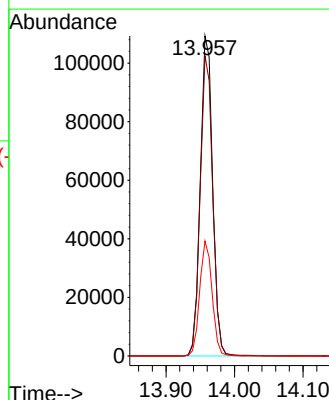
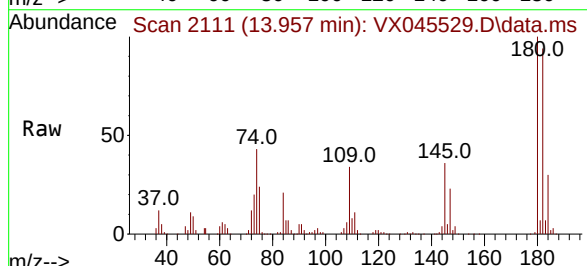
Tgt Ion:180 Resp: 137328

Ion Ratio Lower Upper

180 100

182 94.5 47.3 141.8

145 36.0 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	90033	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	160037	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	133342	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	61380	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	252998	153.661	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 307.320%#			
35) Dibromofluoromethane	5.379	113	173598	152.887	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 305.780%#			
50) Toluene-d8	8.647	98	603264	152.216	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 304.440%#			
62) 4-Bromofluorobenzene	11.079	95	220921	153.035	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 306.060%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.167	85	221436	164.460	ug/l	100
3) Chloromethane	1.307	50	198321	143.373	ug/l	98
4) Vinyl Chloride	1.374	62	197096	155.697	ug/l	100
5) Bromomethane	1.593	94	88225	146.986	ug/l	97
6) Chloroethane	1.660	64	86251	128.421	ug/l	97
7) Trichlorofluoromethane	1.868	101	267098	141.495	ug/l	100
8) Diethyl Ether	2.136	74	96467	152.215	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	171118	154.698	ug/l	97
10) Methyl Iodide	2.441	142	202594	146.838	ug/l	99
11) Tert butyl alcohol	2.989	59	167769	758.202	ug/l	100
12) 1,1-Dichloroethene	2.307	96	166365	153.921	ug/l	97
13) Acrolein	2.239	56	232818	764.070	ug/l	100
14) Allyl chloride	2.654	41	313268	152.755	ug/l	99
15) Acrylonitrile	3.069	53	507965	727.247	ug/l	100
16) Acetone	2.386	43	479564	709.323	ug/l	99
17) Carbon Disulfide	2.502	76	443495	166.133	ug/l	99
18) Methyl Acetate	2.703	43	228558	146.832	ug/l	99
19) Methyl tert-butyl Ether	3.117	73	598532	158.301	ug/l	99
20) Methylene Chloride	2.782	84	186382	147.254	ug/l	99
21) trans-1,2-Dichloroethene	3.081	96	170283	154.210	ug/l	98
22) Diisopropyl ether	3.764	45	636728	157.617	ug/l	94
23) Vinyl Acetate	3.721	43	2911326	834.120	ug/l	100
24) 1,1-Dichloroethane	3.605	63	349040	152.778	ug/l	99
25) 2-Butanone	4.556	43	740096	747.834	ug/l	99
26) 2,2-Dichloropropane	4.465	77	252063	170.765	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	205254	152.571	ug/l	98
28) Bromochloromethane	4.891	49	155600	140.938	ug/l	97
29) Tetrahydrofuran	5.001	42	475589	741.226	ug/l	100
30) Chloroform	5.087	83	353681	150.451	ug/l	98
31) Cyclohexane	5.458	56	310219	153.595	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	315136	158.426	ug/l	98
36) 1,1-Dichloropropene	5.684	75	239776	156.399	ug/l	98
37) Ethyl Acetate	4.715	43	294559	152.461	ug/l	99
38) Carbon Tetrachloride	5.672	117	266770	161.005	ug/l	99
39) Methylcyclohexane	7.373	83	303251	161.366	ug/l	96
40) Benzene	6.031	78	703311	150.208	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045530.D
 Acq On : 01 Apr 2025 19:02
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 02:54:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 02:44:48 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	164699	160.155	ug/l	98
42) 1,2-Dichloroethane	6.080	62	296168	153.146	ug/l	100
43) Isopropyl Acetate	6.336	43	475823	162.494	ug/l	99
44) Trichloroethene	7.117	130	170940	153.599	ug/l	95
45) 1,2-Dichloropropane	7.428	63	179457	153.610	ug/l	98
46) Dibromomethane	7.574	93	135415	150.996	ug/l	98
47) Bromodichloromethane	7.818	83	279881	156.272	ug/l	98
48) Methyl methacrylate	7.690	41	240818	159.281	ug/l	99
49) 1,4-Dioxane	7.659	88	74929	2739.196	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	1414771	728.817	ug/l	99
52) Toluene	8.714	92	420015	148.245	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	267671	150.589	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	287973	171.104	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	163426	144.752	ug/l	98
56) Ethyl methacrylate	9.116	69	285895	163.624	ug/l	98
57) 1,3-Dichloropropane	9.305	76	288430	146.708	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	703881	796.340	ug/l	99
59) 2-Hexanone	9.433	43	1053971	733.198	ug/l	100
60) Dibromochloromethane	9.519	129	194342	157.895	ug/l	98
61) 1,2-Dibromoethane	9.610	107	174571	152.745	ug/l	99
64) Tetrachloroethene	9.269	164	138926	147.568	ug/l	98
65) Chlorobenzene	10.080	112	444631	156.049	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	156069	157.769	ug/l	99
67) Ethyl Benzene	10.189	91	821130	160.907	ug/l	99
68) m/p-Xylenes	10.299	106	583228	314.231	ug/l	99
69) o-Xylene	10.640	106	285670	156.241	ug/l	100
70) Styrene	10.653	104	480722	159.299	ug/l	99
71) Bromoform	10.799	173	126115	170.743	ug/l #	98
73) Isopropylbenzene	10.957	105	764406	155.475	ug/l	100
74) N-amyl acetate	10.842	43	408934	173.877	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	249980	144.737	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	215694m	144.064	ug/l	
77) Bromobenzene	11.195	156	171573	151.033	ug/l	99
78) n-propylbenzene	11.305	91	897084	158.408	ug/l	100
79) 2-Chlorotoluene	11.360	91	537263	148.399	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	620819	152.700	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	78805	178.636	ug/l	93
82) 4-Chlorotoluene	11.451	91	615594	152.505	ug/l	99
83) tert-Butylbenzene	11.713	119	627039	155.783	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	629704	154.317	ug/l	100
85) sec-Butylbenzene	11.890	105	790355	159.869	ug/l	100
86) p-Isopropyltoluene	12.006	119	641521	157.397	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	314077	151.885	ug/l	100
88) 1,4-Dichlorobenzene	12.037	146	314197	149.876	ug/l	99
89) n-Butylbenzene	12.329	91	604445	171.019	ug/l	100
90) Hexachloroethane	12.536	117	121761	173.829	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	307031	149.342	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	64317	178.062	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	199365	174.213	ug/l	99
94) Hexachlorobutadiene	13.725	225	77792	157.752	ug/l	99
95) Naphthalene	13.774	128	733300	172.191	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	201989	168.562	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045530.D
Acq On : 01 Apr 2025 19:02
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Quant Time: Apr 02 02:54:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 02:44:48 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

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

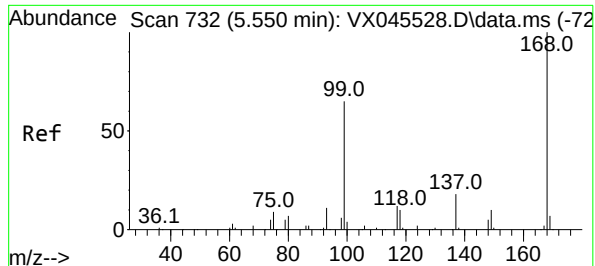
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025





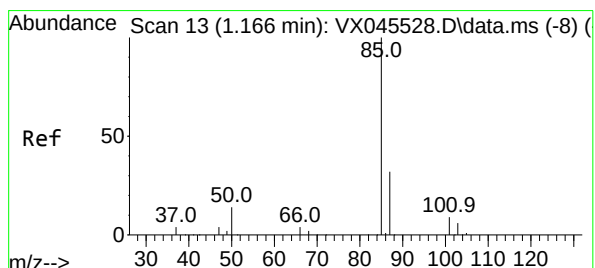
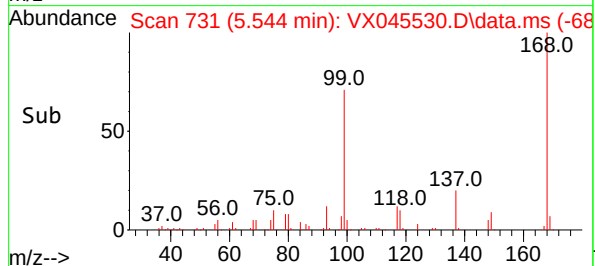
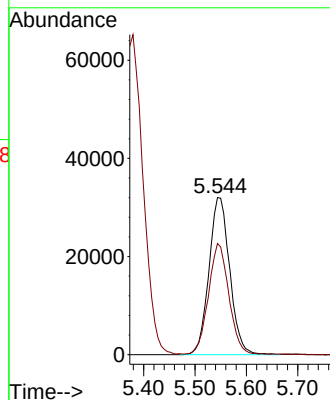
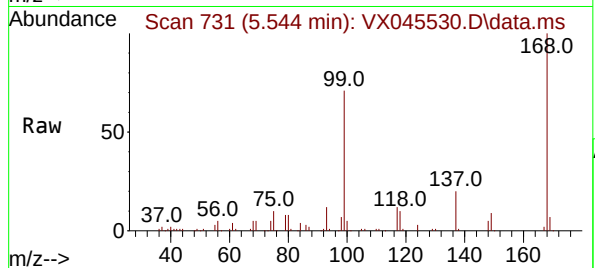
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:168 Resp: 9003
Ion Ratio Lower Upper
168 100
99 70.3 52.3 78.5

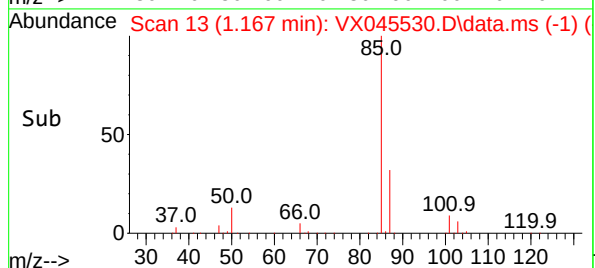
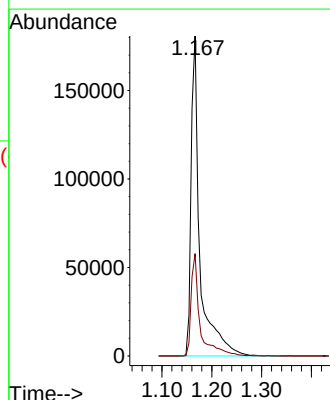
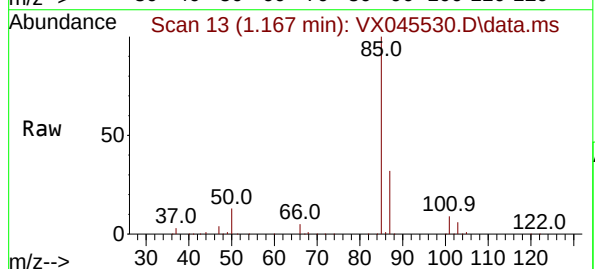
Manual Integrations
APPROVED

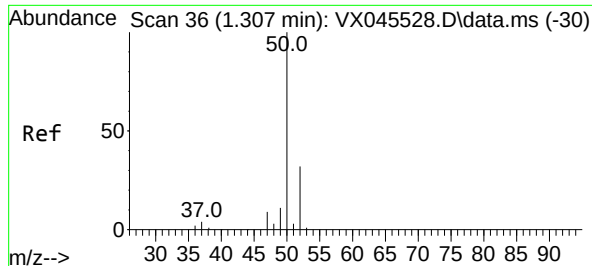
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 164.460 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 85 Resp: 221436
Ion Ratio Lower Upper
85 100
87 32.0 16.1 48.2





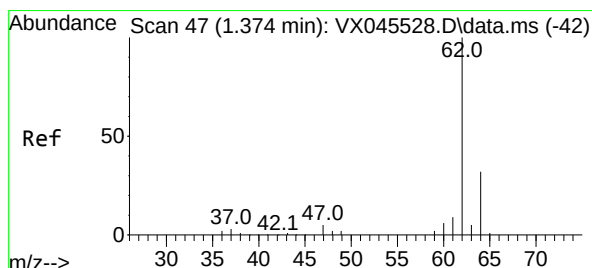
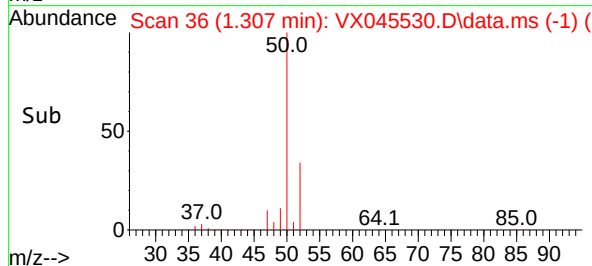
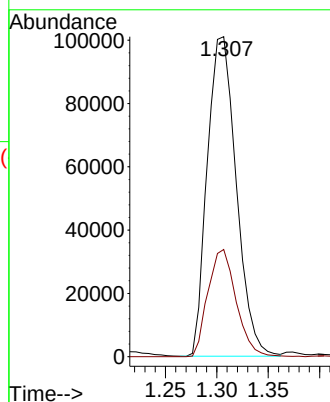
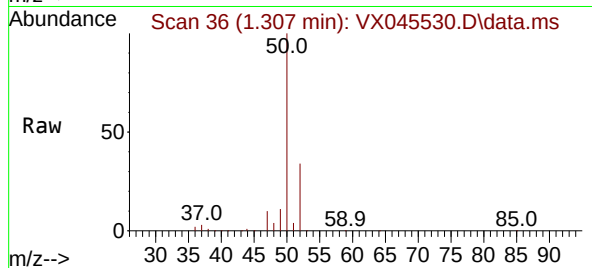
#3
Chloromethane
Concen: 143.373 ug/l
RT: 1.307 min Scan# 30
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 50 Resp: 19832
Ion Ratio Lower Upper
50 100
52 33.6 25.9 38.9

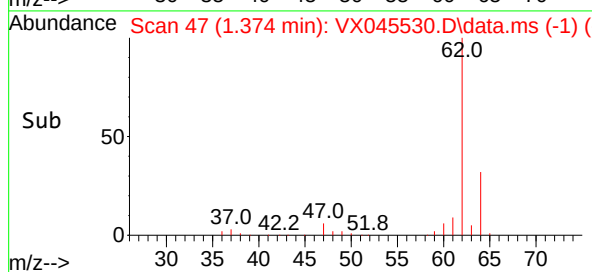
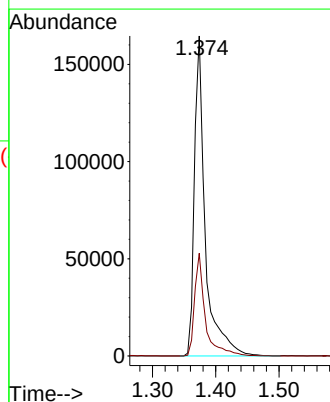
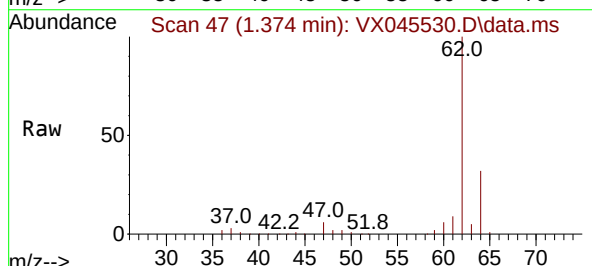
Manual Integrations
APPROVED

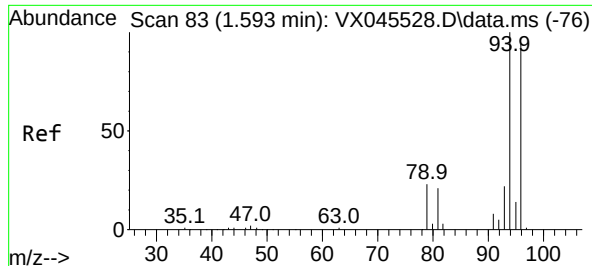
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 155.697 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 62 Resp: 197096
Ion Ratio Lower Upper
62 100
64 32.1 25.5 38.3





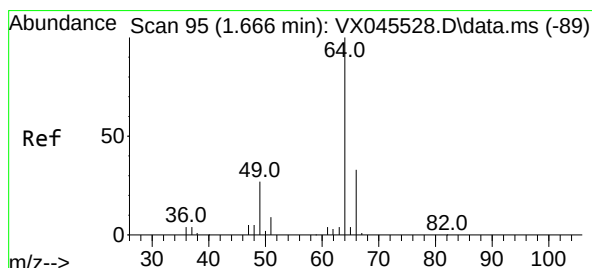
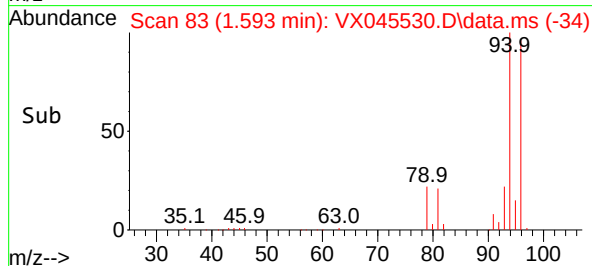
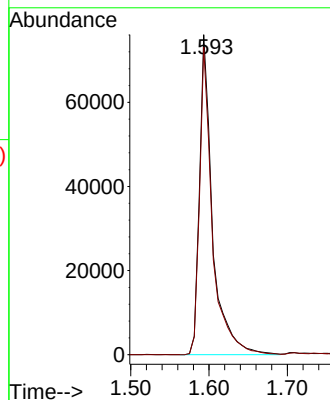
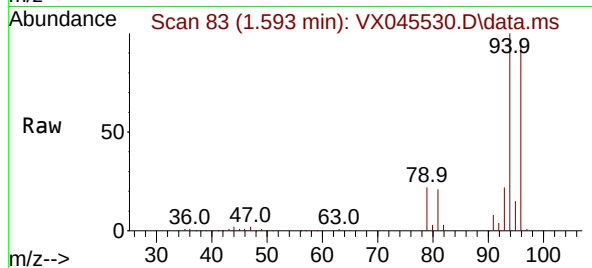
#5
Bromomethane
Concen: 146.986 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 88225
Ion Ratio Lower Upper
94 100
96 96.1 74.8 112.2

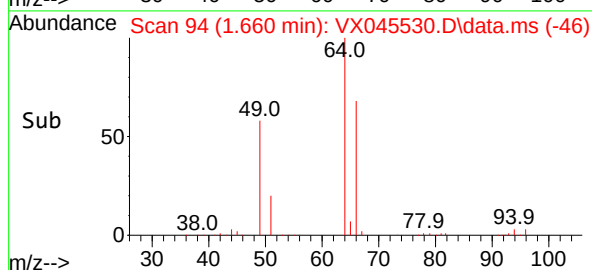
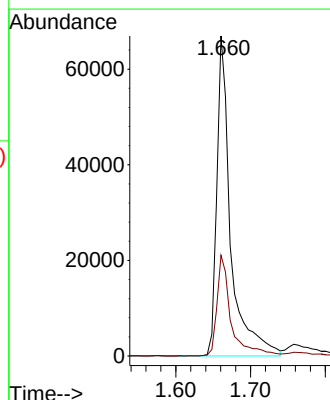
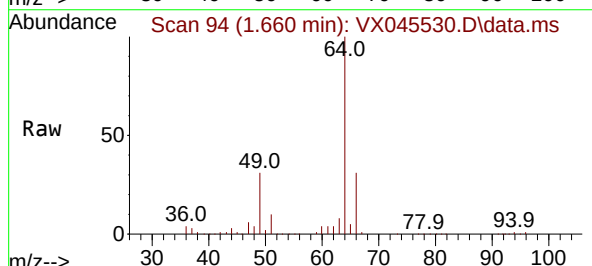
Manual Integrations
APPROVED

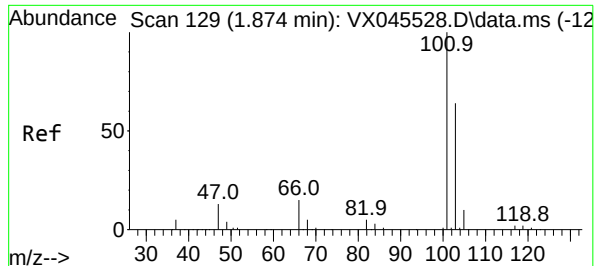
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#6
Chloroethane
Concen: 128.421 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

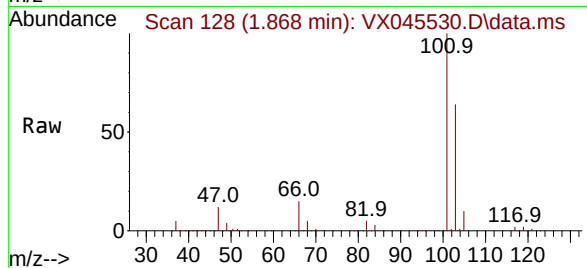
Tgt Ion: 64 Resp: 86251
Ion Ratio Lower Upper
64 100
66 31.4 26.3 39.5





#7
Trichlorofluoromethane
Concen: 141.495 ug/l
RT: 1.868 min Scan# 129
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

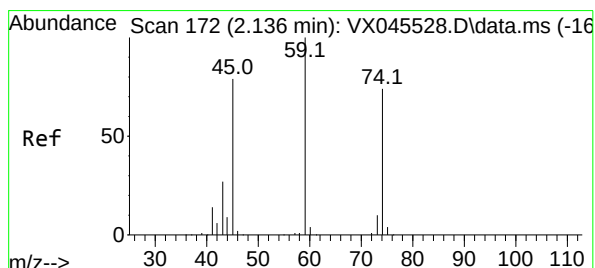
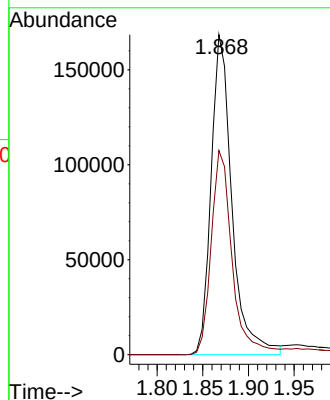
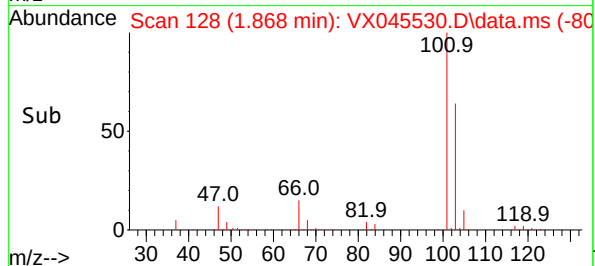
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:101 Resp: 267098
Ion Ratio Lower Upper
101 100
103 63.8 51.1 76.7

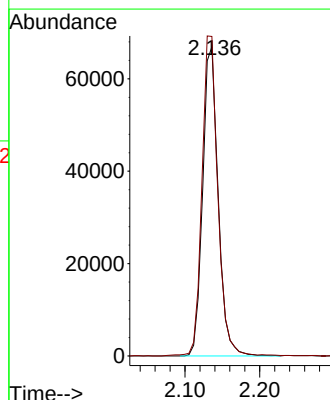
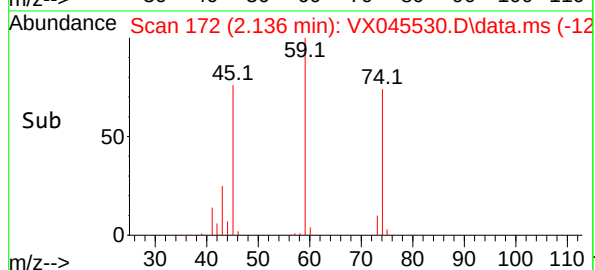
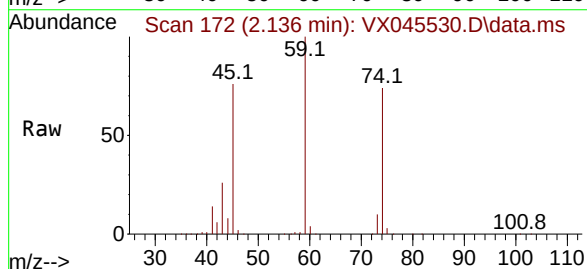
Manual Integrations
APPROVED

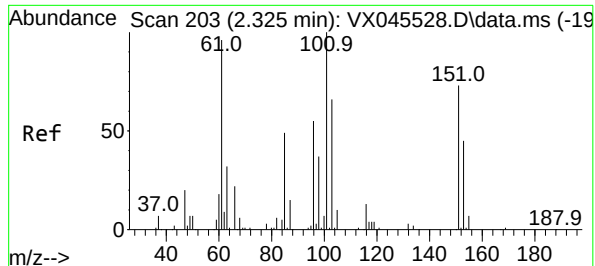
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#8
Diethyl Ether
Concen: 152.215 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 74 Resp: 96467
Ion Ratio Lower Upper
74 100
45 105.8 53.0 159.1





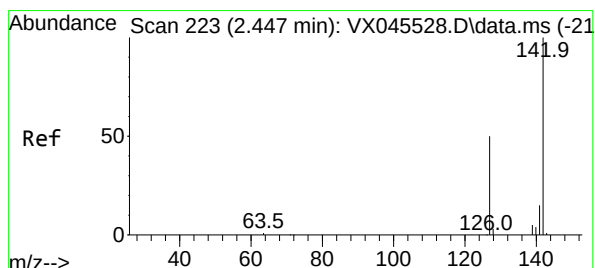
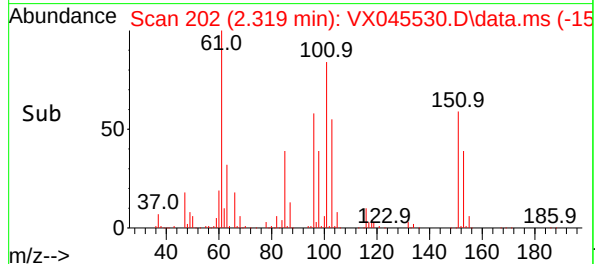
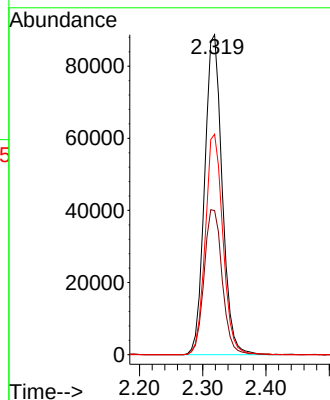
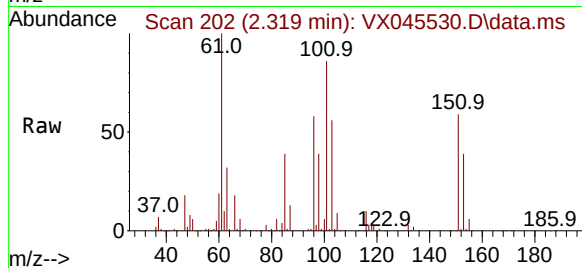
#9
1,1,2-Trichlorotrifluoroethane
Concen: 154.698 ug/l
RT: 2.319 min Scan# 203
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:101 Resp: 171118
Ion Ratio Lower Upper
101 100
85 46.9 38.9 58.3
151 69.3 57.5 86.3

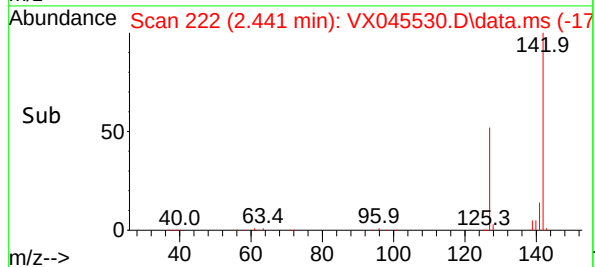
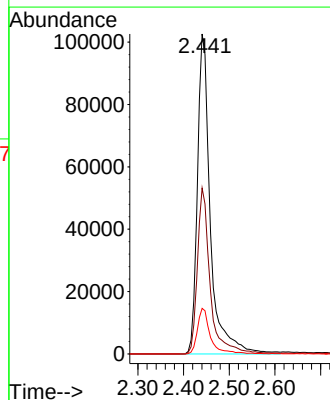
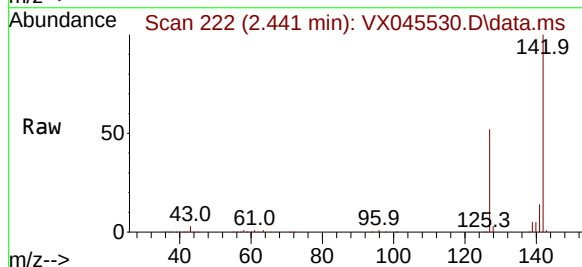
Manual Integrations
APPROVED

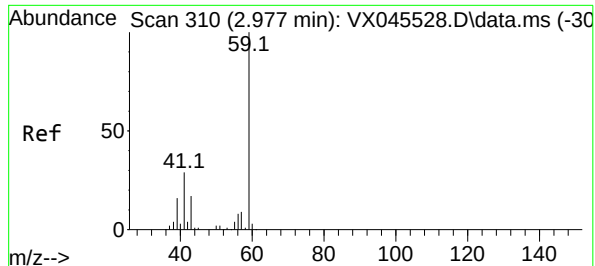
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#10
Methyl Iodide
Concen: 146.838 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:142 Resp: 202594
Ion Ratio Lower Upper
142 100
127 51.2 40.2 60.4
141 14.3 11.7 17.5





#11

Tert butyl alcohol

Concen: 758.202 ug/l

RT: 2.989 min Scan# 310

Delta R.T. 0.012 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 167769

Ion Ratio Lower Upper

59 100

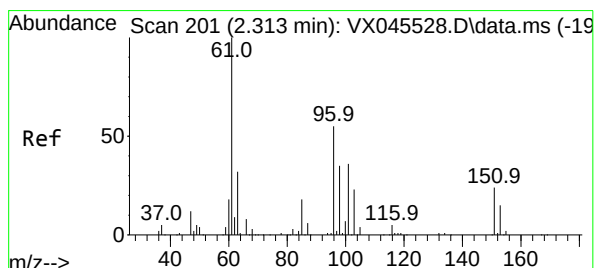
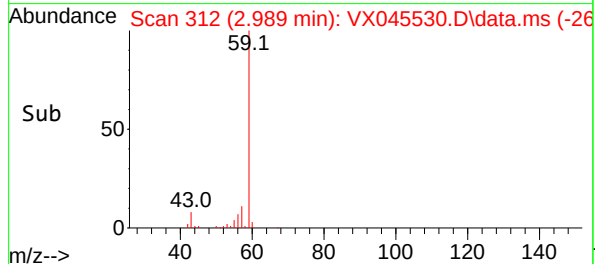
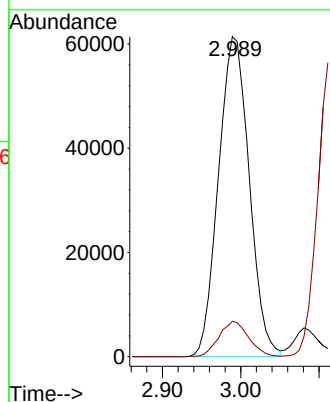
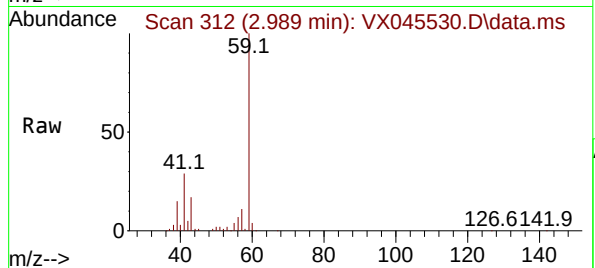
57 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#12

1,1-Dichloroethene

Concen: 153.921 ug/l

RT: 2.307 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

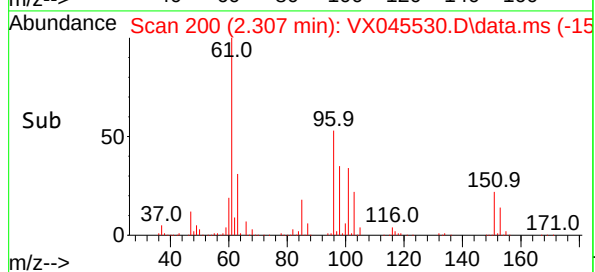
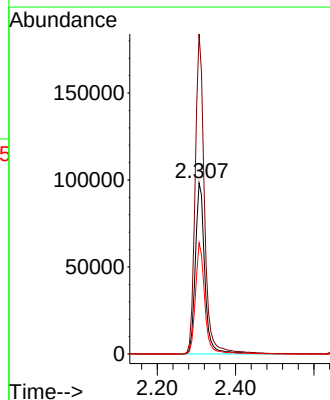
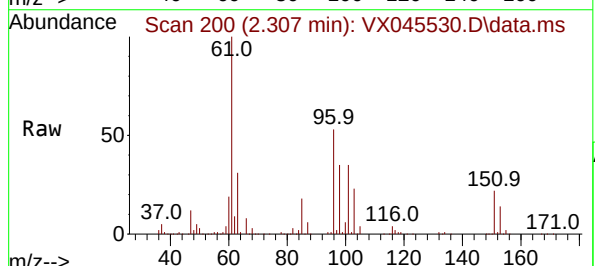
Tgt Ion: 96 Resp: 166365

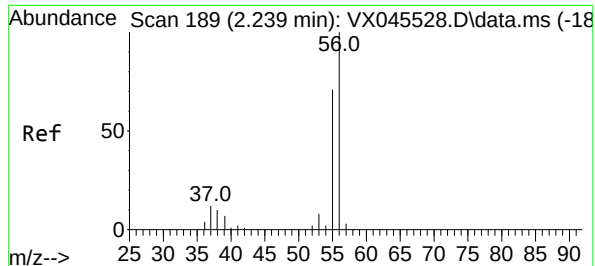
Ion Ratio Lower Upper

96 100

61 187.0 145.7 218.5

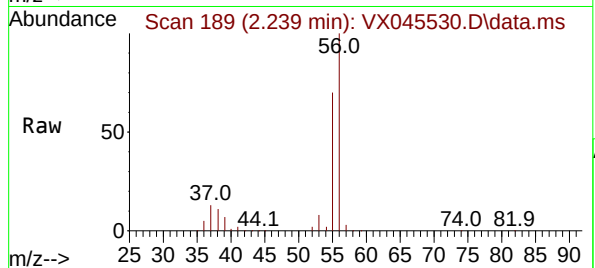
98 65.0 51.6 77.4





#13
Acrolein
Concen: 764.070 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

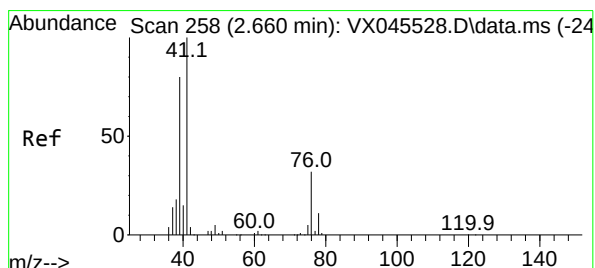
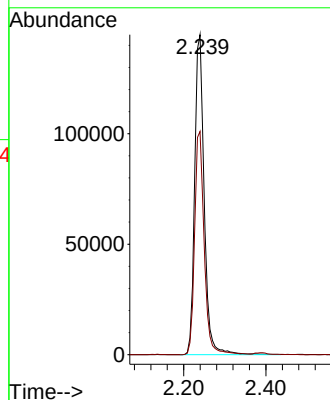
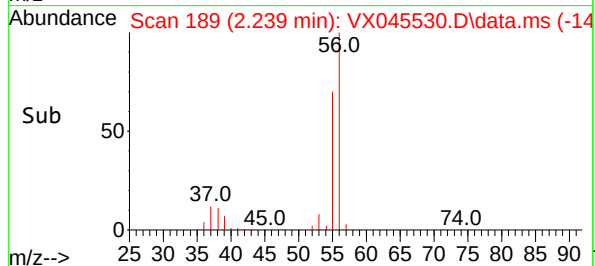
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 56 Resp: 232818
Ion Ratio Lower Upper
56 100
55 70.2 56.2 84.2

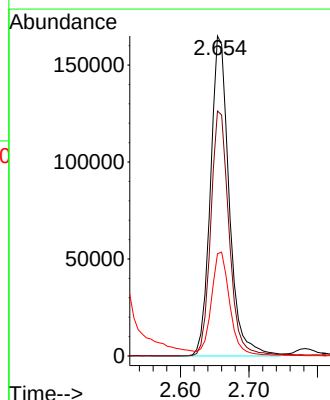
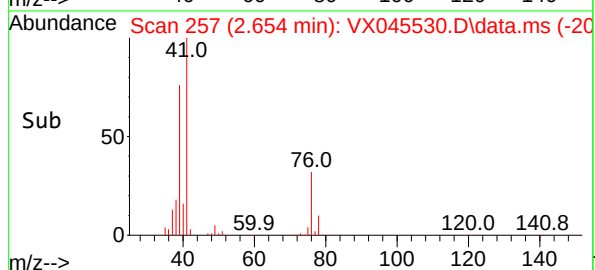
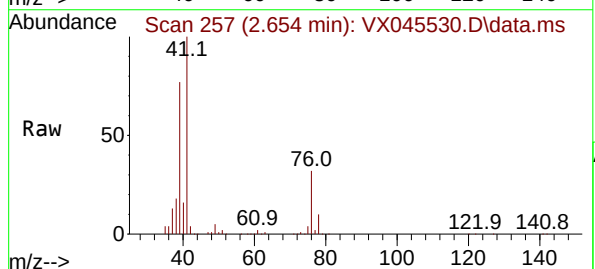
Manual Integrations
APPROVED

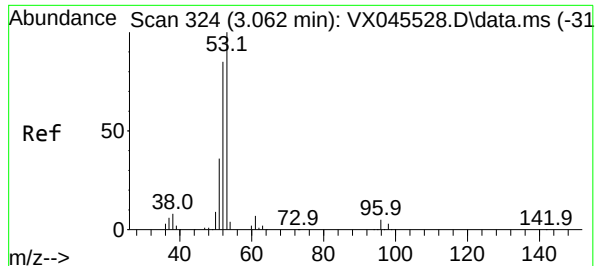
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#14
Allyl chloride
Concen: 152.755 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 41 Resp: 313268
Ion Ratio Lower Upper
41 100
39 75.0 60.2 90.2
76 32.2 24.6 36.8





#15

Acrylonitrile

Concen: 727.247 ug/l

RT: 3.069 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 53 Resp: 50796

Ion Ratio Lower Upper

53 100

52 83.8 67.4 101.2

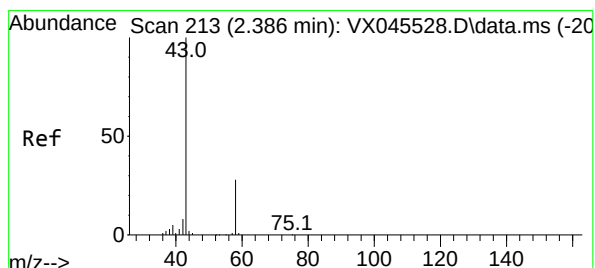
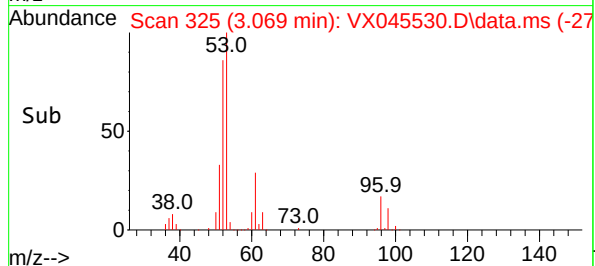
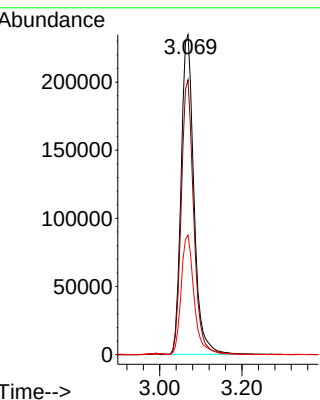
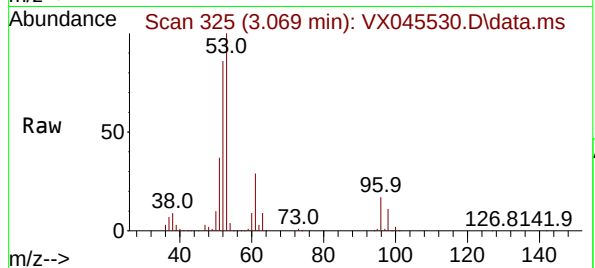
51 37.7 29.9 44.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 709.323 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX045530.D

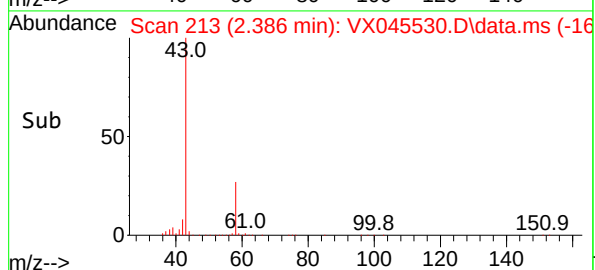
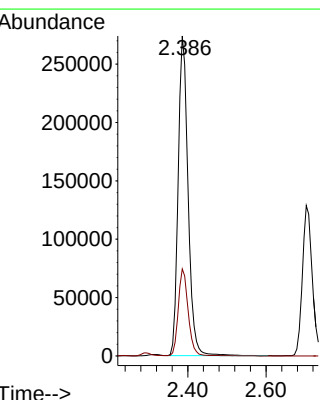
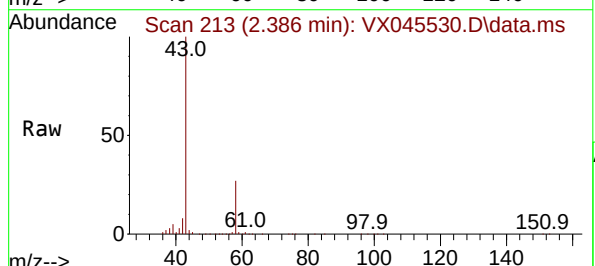
Acq: 01 Apr 2025 19:02

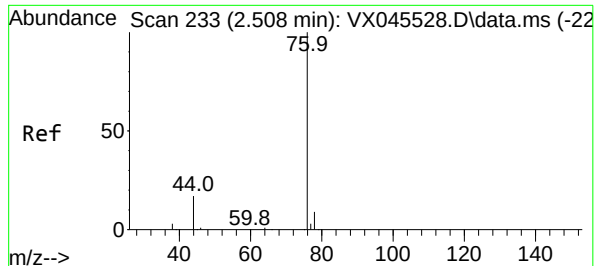
Tgt Ion: 43 Resp: 479564

Ion Ratio Lower Upper

43 100

58 27.2 22.3 33.5





#17

Carbon Disulfide

Concen: 166.133 ug/l

RT: 2.502 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 76 Resp: 44349

Ion Ratio Lower Upper

76 100

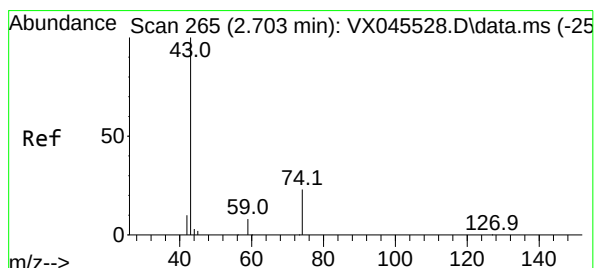
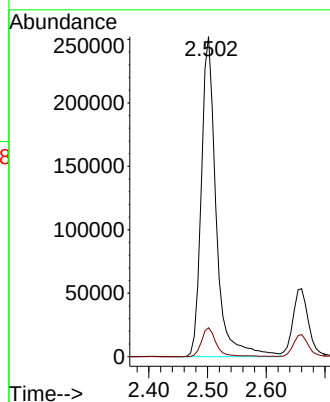
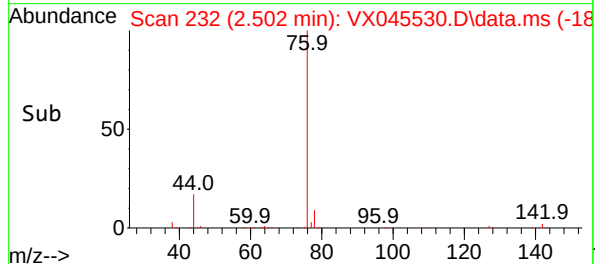
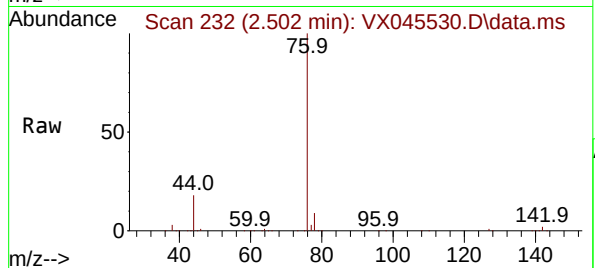
78 9.1 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#18

Methyl Acetate

Concen: 146.832 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045530.D

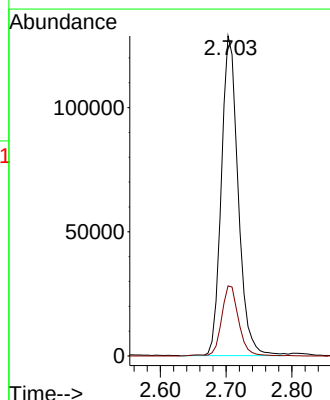
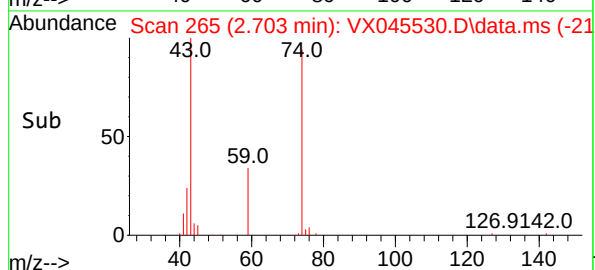
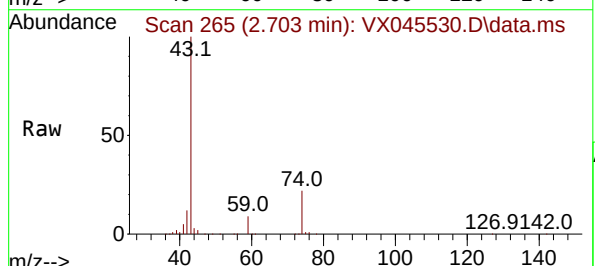
Acq: 01 Apr 2025 19:02

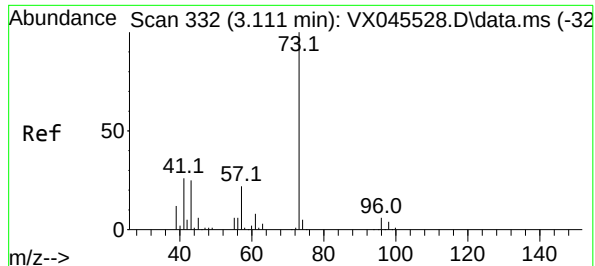
Tgt Ion: 43 Resp: 228558

Ion Ratio Lower Upper

43 100

74 22.4 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 158.301 ug/l

RT: 3.117 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 73 Resp: 59853

Ion Ratio Lower Upper

73 100

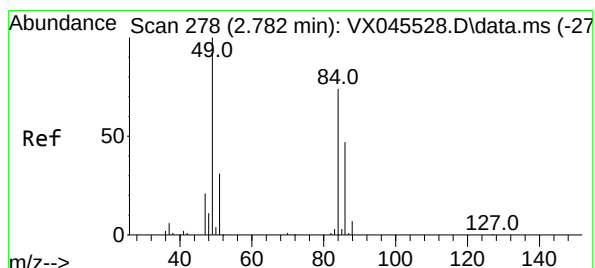
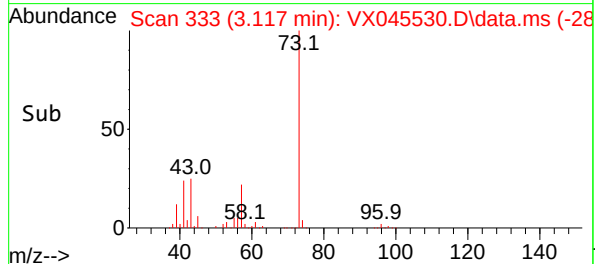
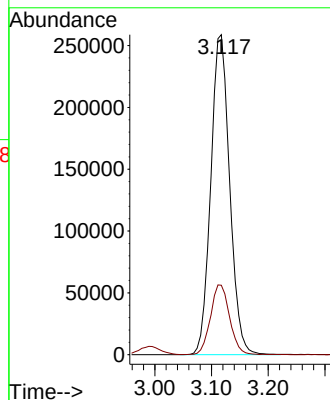
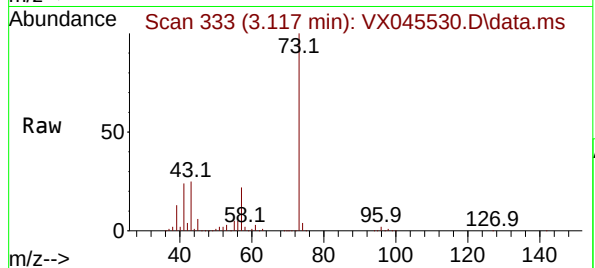
57 21.7 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 147.254 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Tgt Ion: 84 Resp: 186382

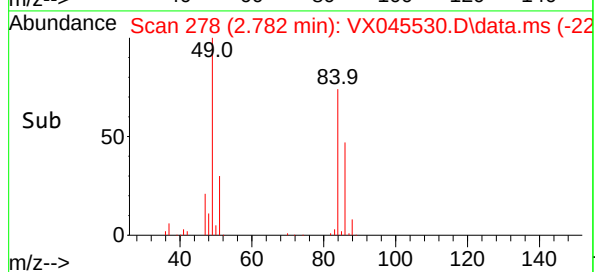
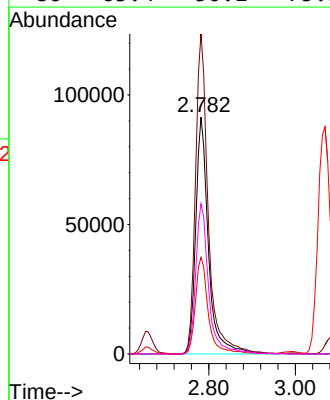
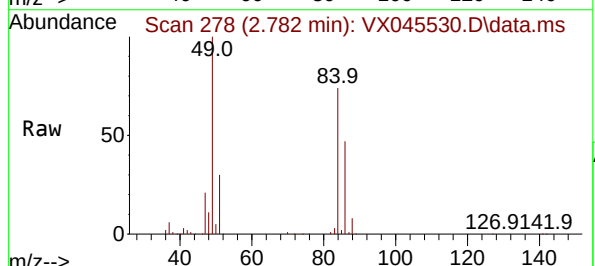
Ion Ratio Lower Upper

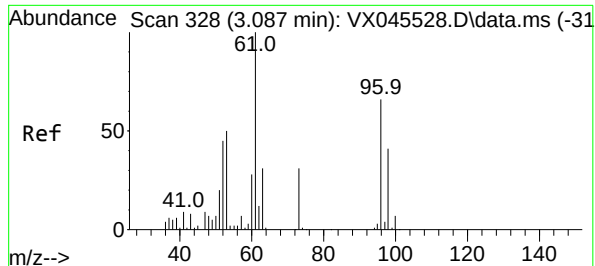
84 100

49 135.1 107.5 161.3

51 40.8 33.0 49.6

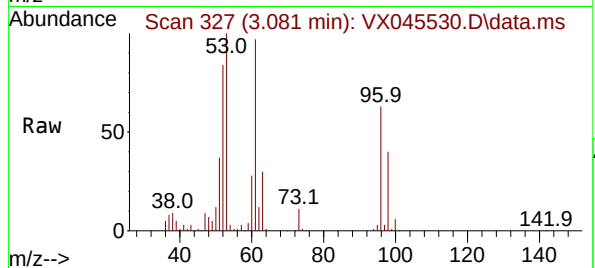
86 63.4 50.1 75.1





#21
trans-1,2-Dichloroethene
Concen: 154.210 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

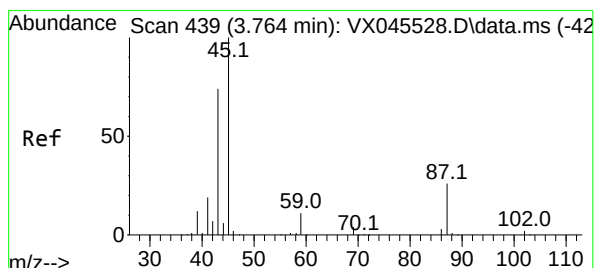
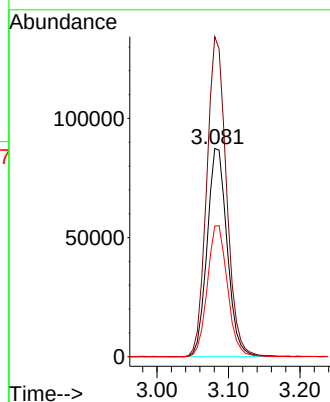
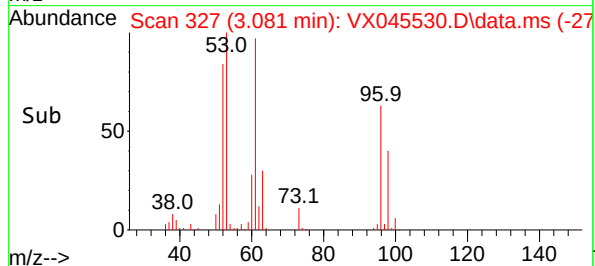
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 96 Resp: 17028
Ion Ratio Lower Upper
96 100
61 153.7 121.0 181.6
98 62.7 49.7 74.5

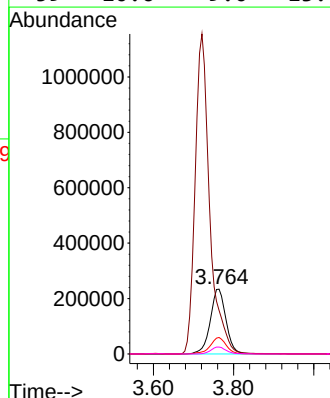
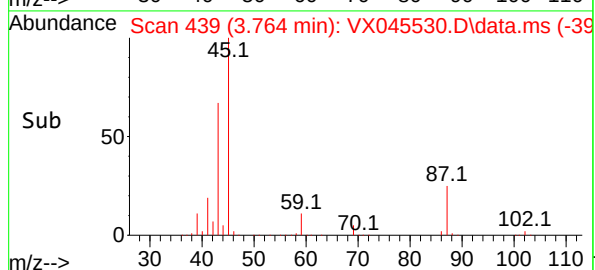
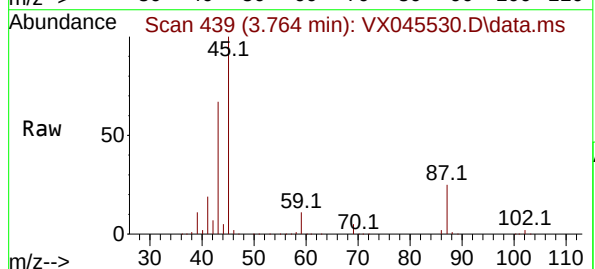
Manual Integrations
APPROVED

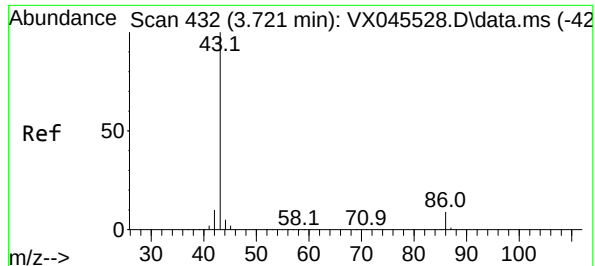
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#22
Diisopropyl ether
Concen: 157.617 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 45 Resp: 636728
Ion Ratio Lower Upper
45 100
43 67.0 59.3 88.9
87 25.5 20.4 30.6
59 10.6 9.0 13.6





#23

Vinyl Acetate

Concen: 834.120 ug/l

RT: 3.721 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 2911320

Ion Ratio Lower Upper

43 100

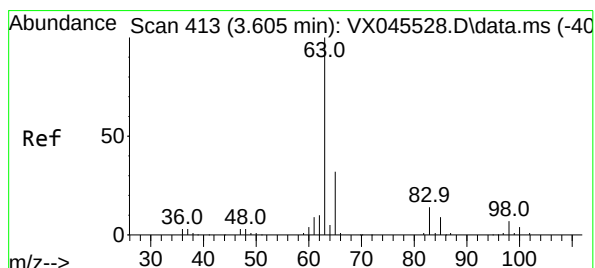
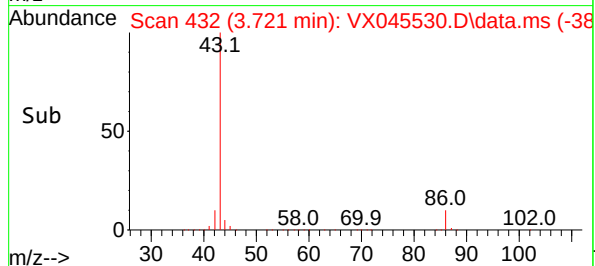
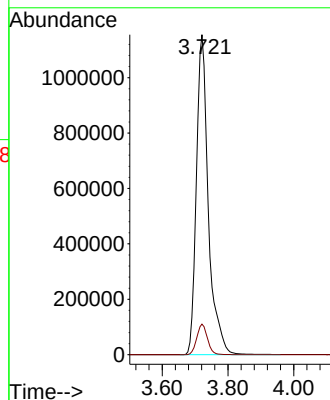
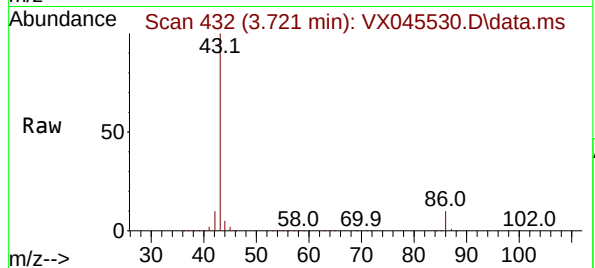
86 9.6 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#24

1,1-Dichloroethane

Concen: 152.778 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

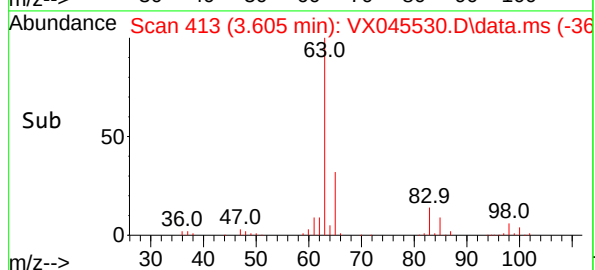
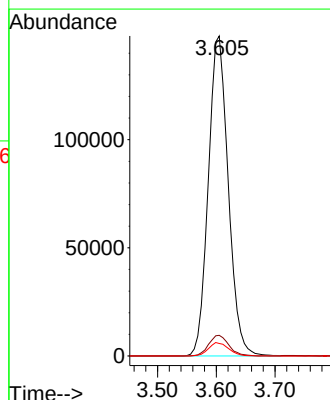
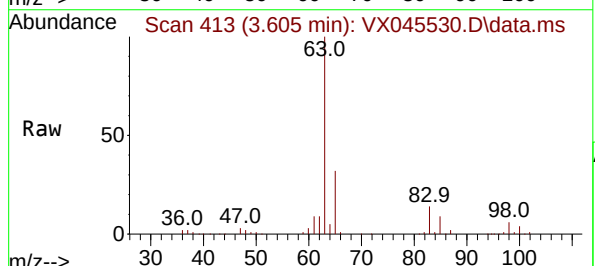
Tgt Ion: 63 Resp: 349040

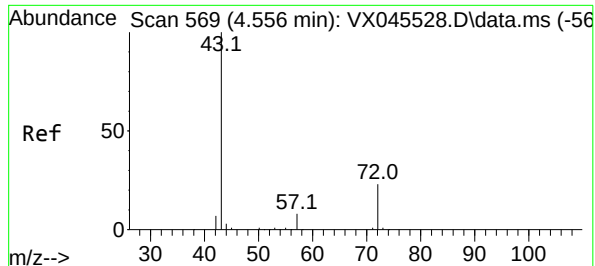
Ion Ratio Lower Upper

63 100

98 6.4 3.4 10.1

100 3.9 2.2 6.6





#25

2-Butanone

Concen: 747.834 ug/l

RT: 4.556 min Scan# 5

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 740090

Ion Ratio Lower Upper

43 100

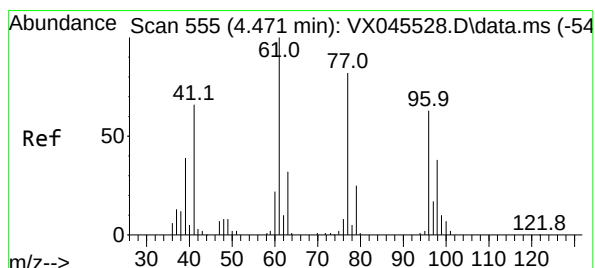
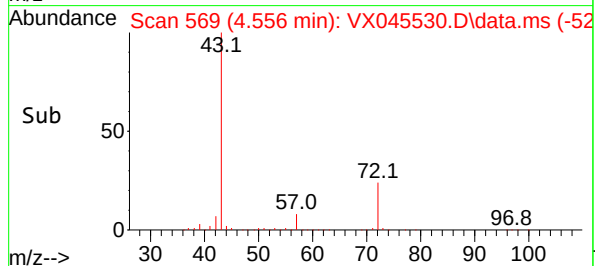
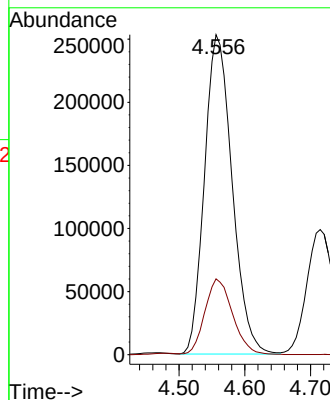
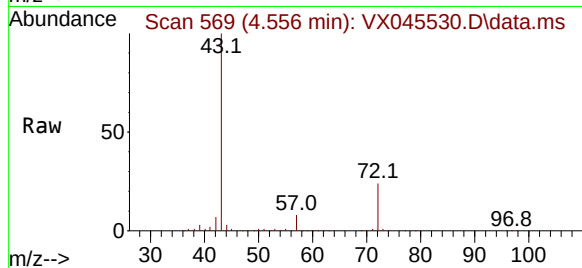
72 23.6 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#26

2,2-Dichloropropane

Concen: 170.765 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX045530.D

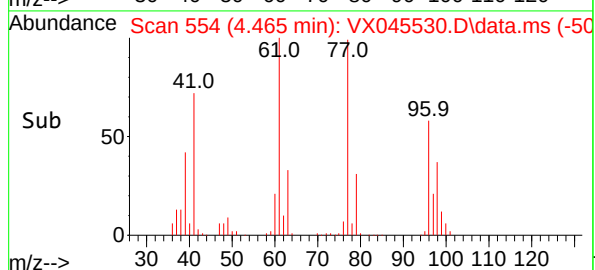
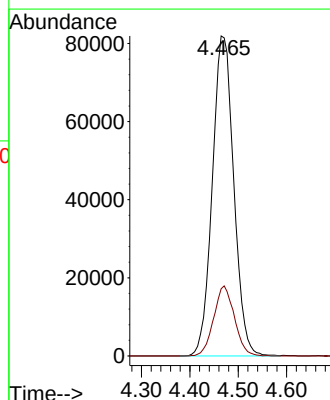
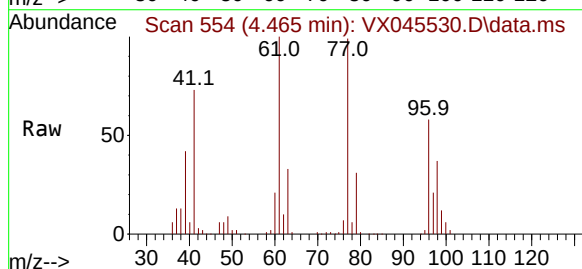
Acq: 01 Apr 2025 19:02

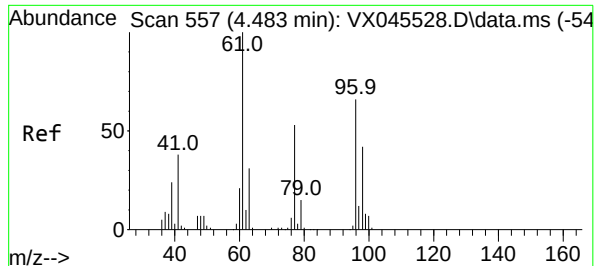
Tgt Ion: 77 Resp: 252063

Ion Ratio Lower Upper

77 100

97 21.2 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 152.571 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 96 Resp: 205254

Ion Ratio Lower Upper

96 100

61 158.2 0.0 313.2

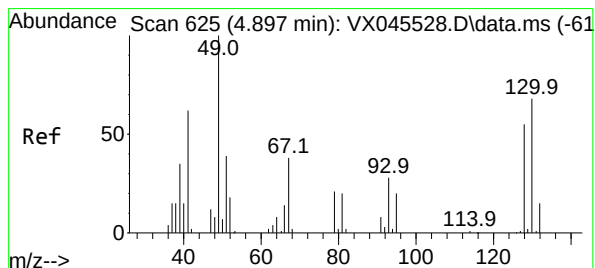
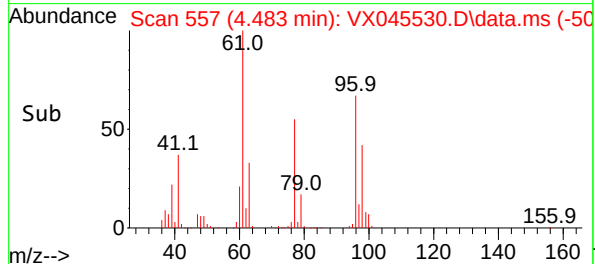
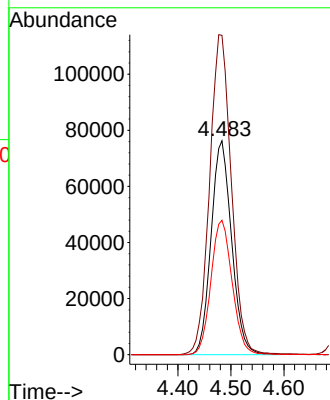
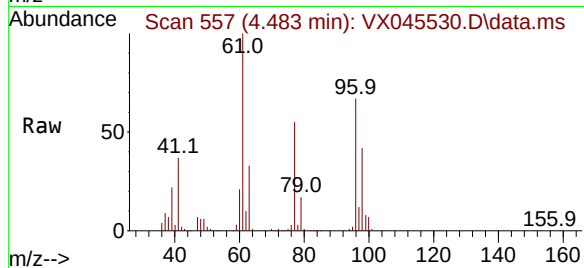
98 64.9 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 140.938 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

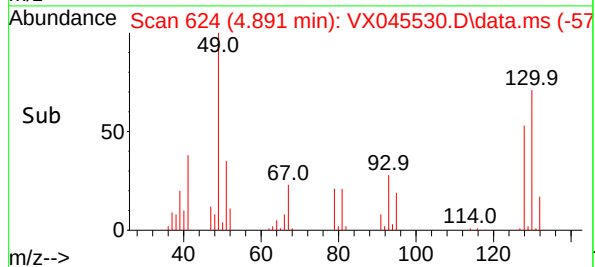
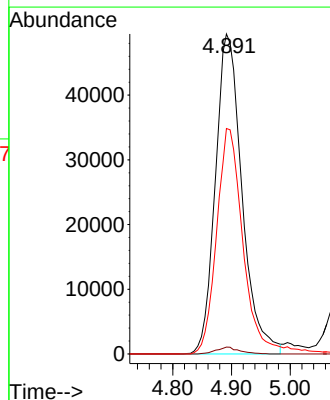
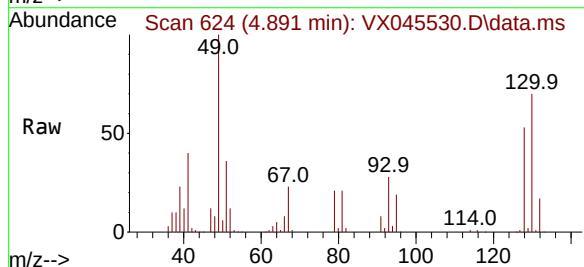
Tgt Ion: 49 Resp: 155600

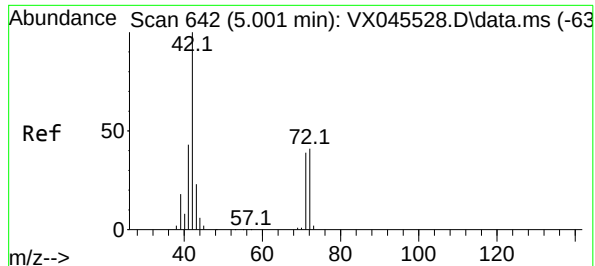
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 70.7 54.6 81.8





#29

Tetrahydrofuran

Concen: 741.226 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 475589

Ion Ratio Lower Upper

42 100

72 42.3 33.4 50.0

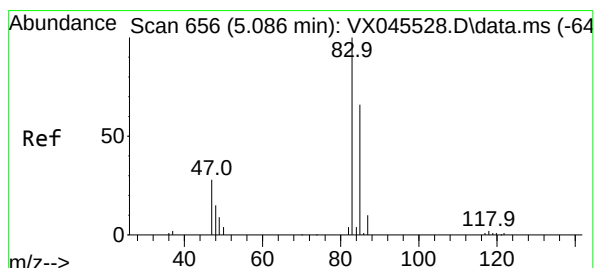
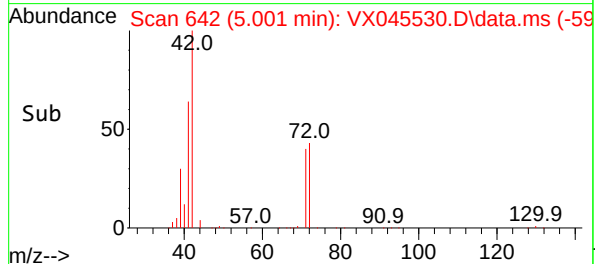
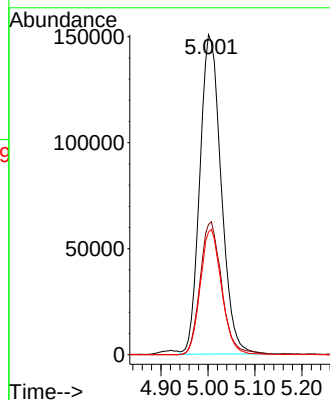
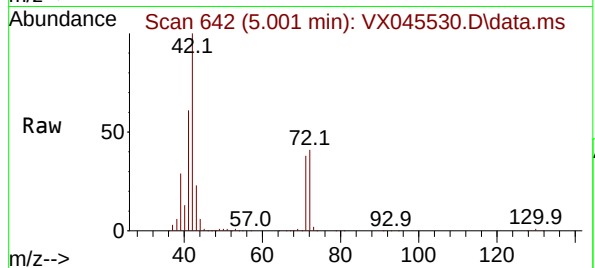
71 39.2 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 150.451 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.000 min

Lab File: VX045530.D

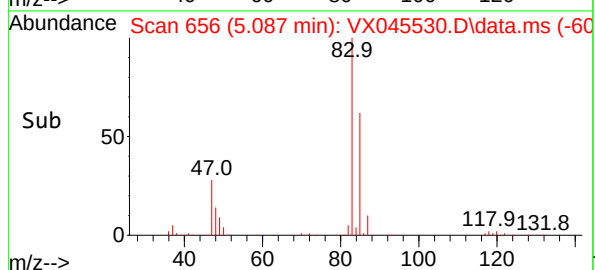
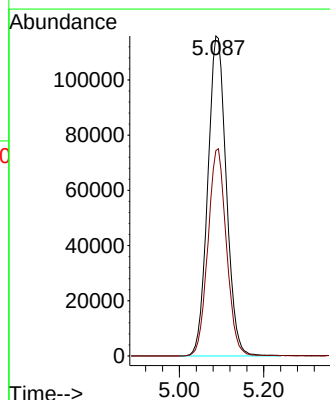
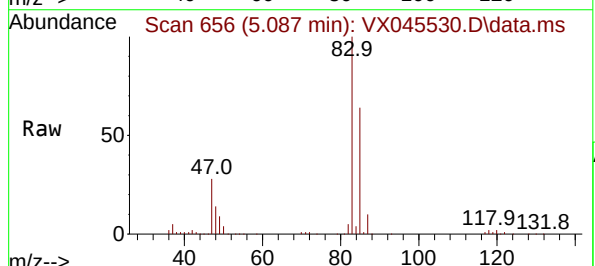
Acq: 01 Apr 2025 19:02

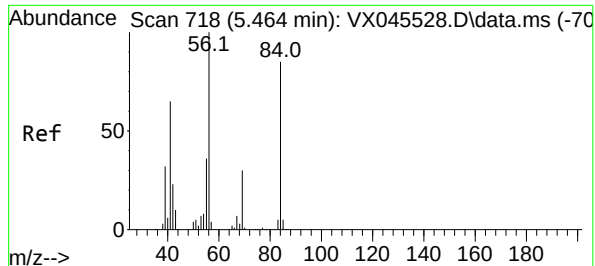
Tgt Ion: 83 Resp: 353681

Ion Ratio Lower Upper

83 100

85 64.2 52.8 79.2





#31

Cyclohexane

Concen: 153.595 ug/l

RT: 5.458 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 310219

Ion Ratio Lower Upper

56 100

69 30.7 23.6 35.4

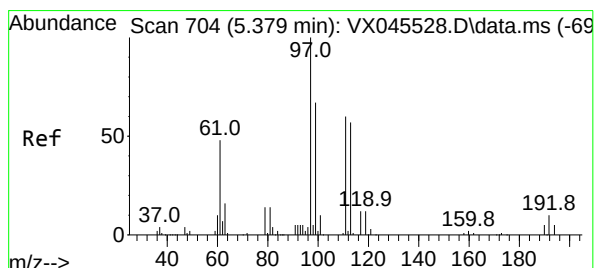
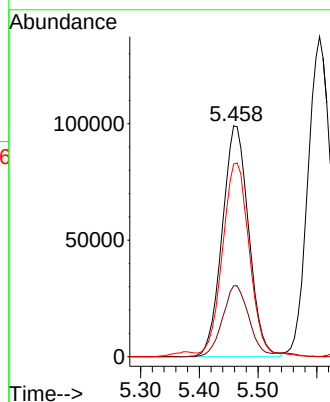
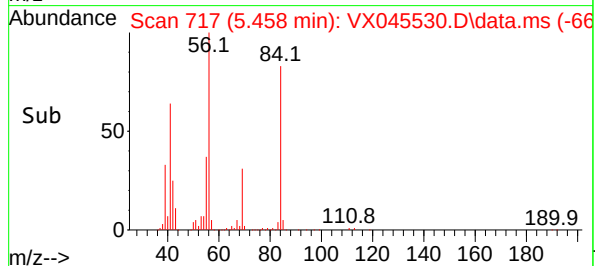
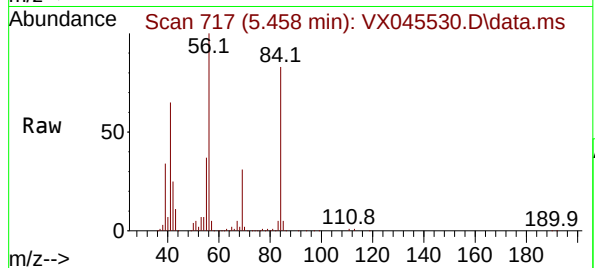
84 81.9 67.7 101.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#32

1,1,1-Trichloroethane

Concen: 158.426 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

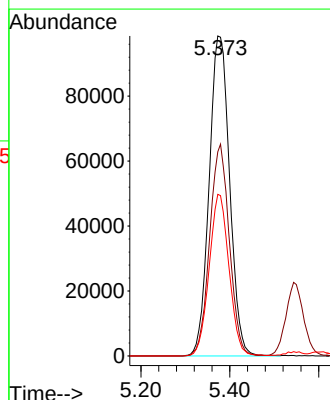
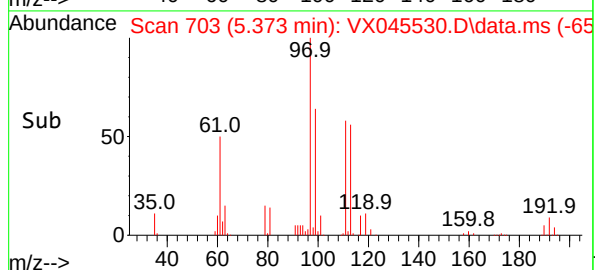
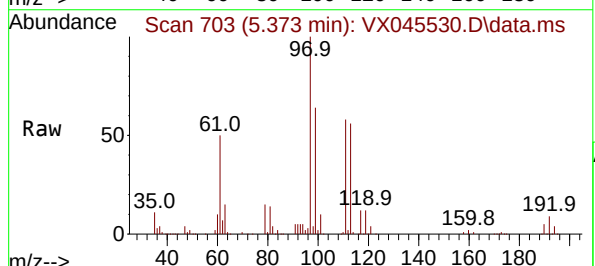
Tgt Ion: 97 Resp: 315136

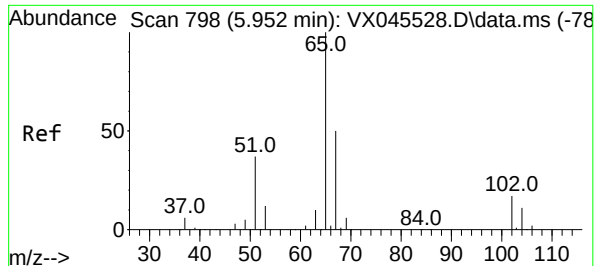
Ion Ratio Lower Upper

97 100

99 63.7 51.7 77.5

61 49.1 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 153.661 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 65 Resp: 252998

Ion Ratio Lower Upper

65 100

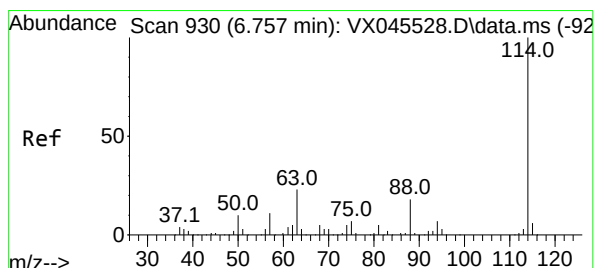
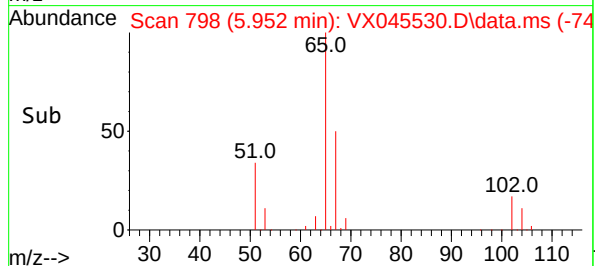
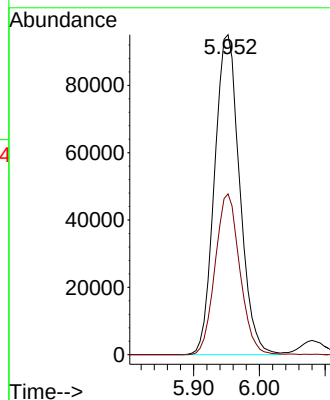
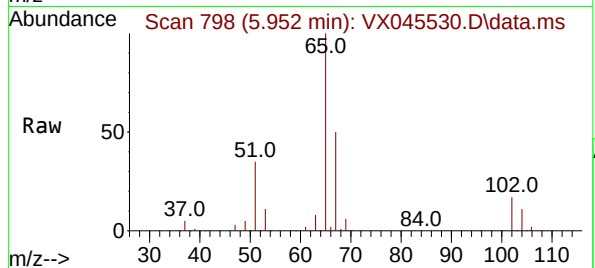
67 49.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

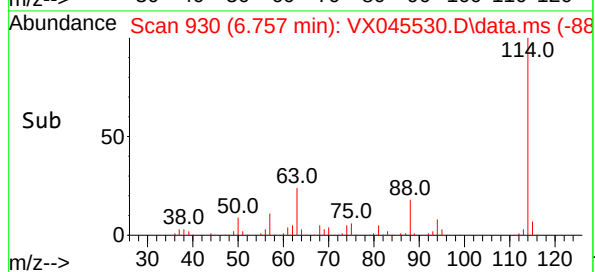
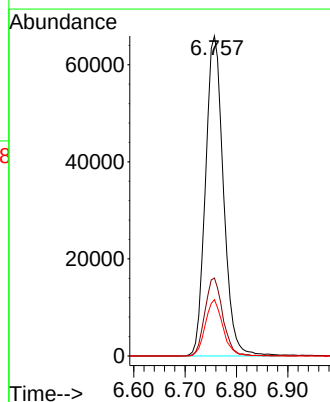
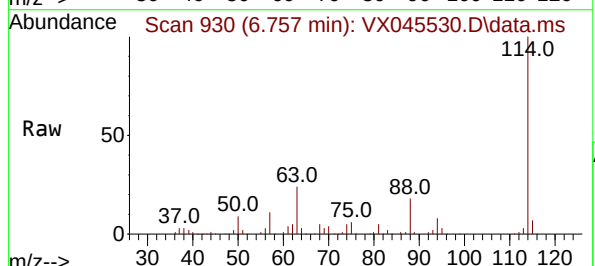
Tgt Ion:114 Resp: 160037

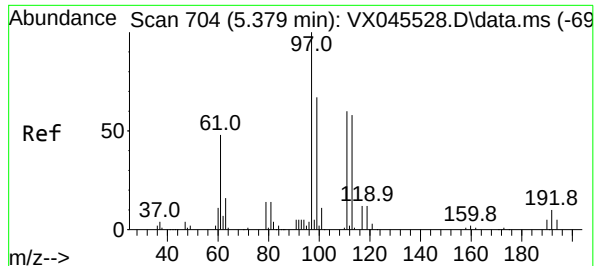
Ion Ratio Lower Upper

114 100

63 24.3 0.0 46.8

88 17.6 0.0 35.4





#35

Dibromofluoromethane

Concen: 152.887 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:113 Resp: 173598

Ion Ratio Lower Upper

113 100

111 103.4 81.8 122.6

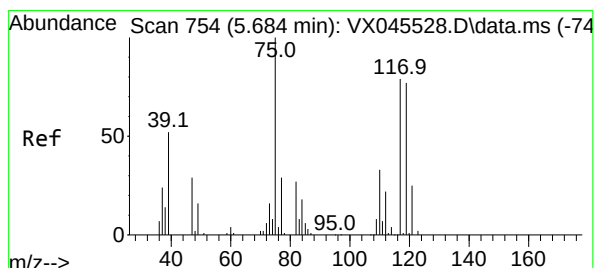
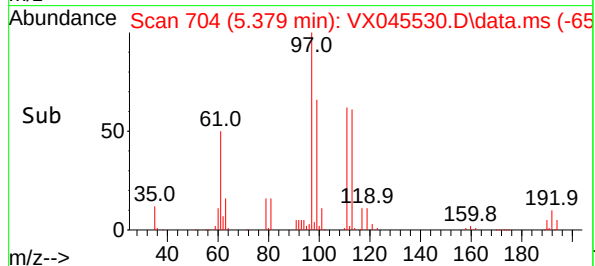
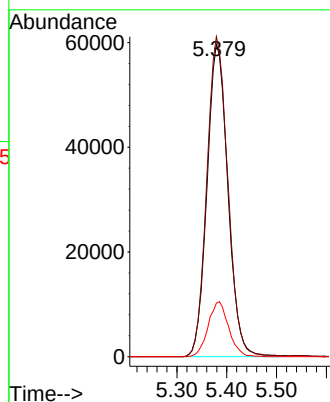
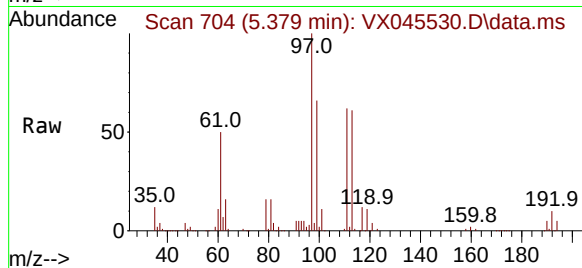
192 17.3 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#36

1,1-Dichloropropene

Concen: 156.399 ug/l

RT: 5.684 min Scan# 754

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

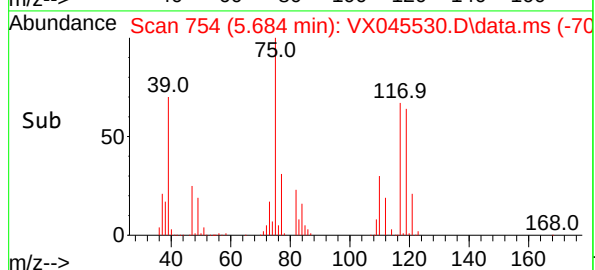
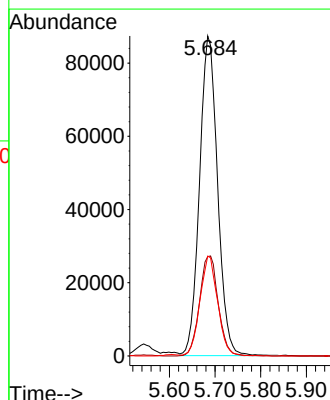
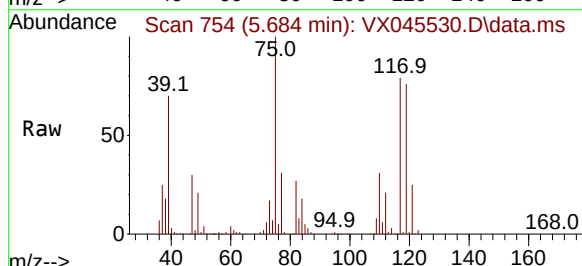
Tgt Ion: 75 Resp: 239776

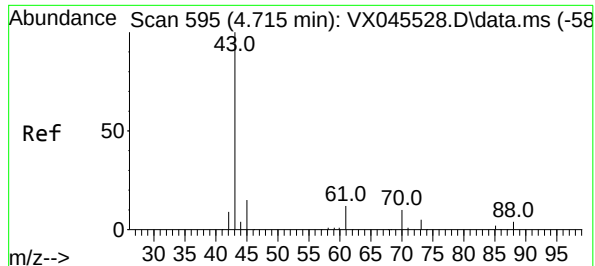
Ion Ratio Lower Upper

75 100

110 32.4 16.9 50.6

77 30.6 25.0 37.4





#37

Ethyl Acetate

Concen: 152.461 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

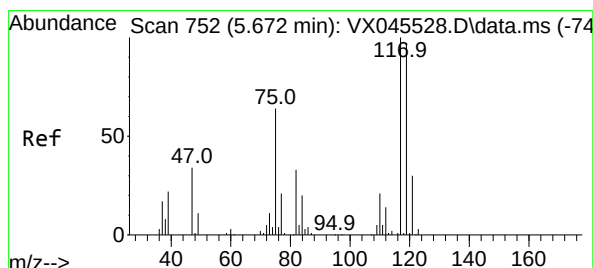
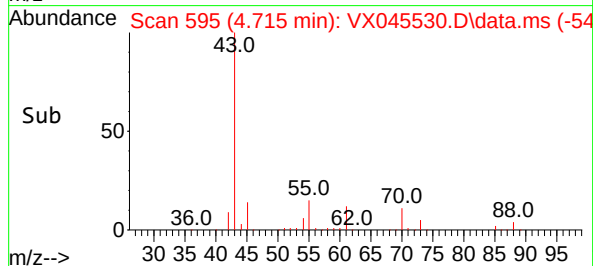
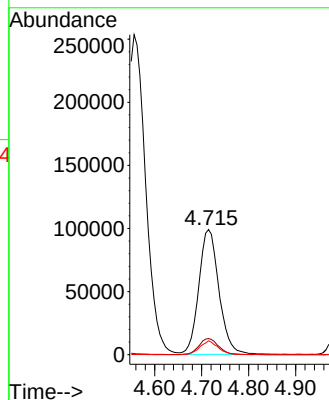
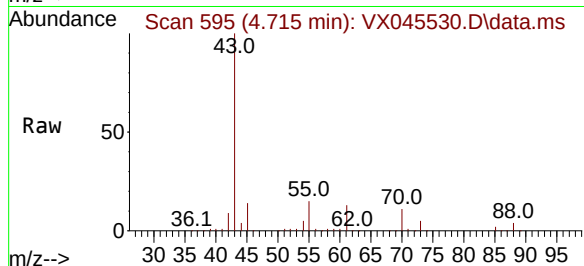
VSTDIC150

Tgt Ion:	43	Resp:	29455
Ion	Ratio	Lower	Upper
43	100		
61	12.5	9.9	14.9
70	10.0	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#38

Carbon Tetrachloride

Concen: 161.005 ug/l

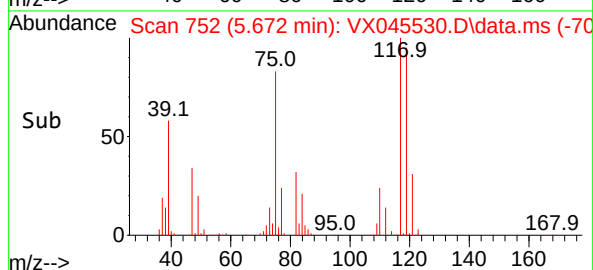
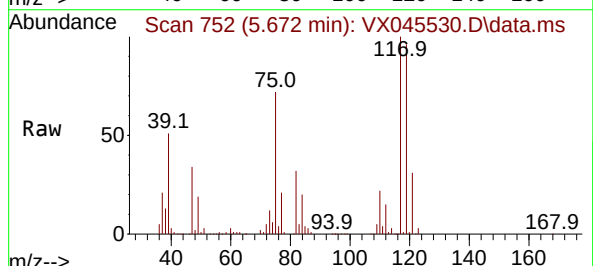
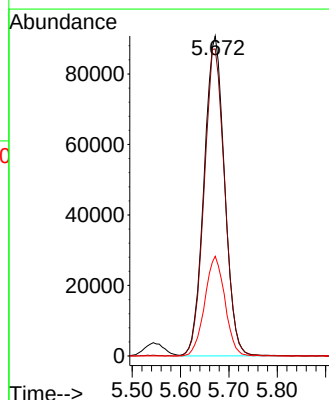
RT: 5.672 min Scan# 752

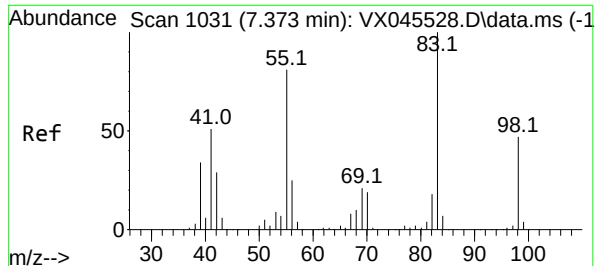
Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Tgt Ion:	117	Resp:	266770
Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
121	31.2	24.2	36.2





#39

Methylcyclohexane

Concen: 161.366 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 30325

Ion Ratio Lower Upper

83 100

55 85.4 64.9 97.3

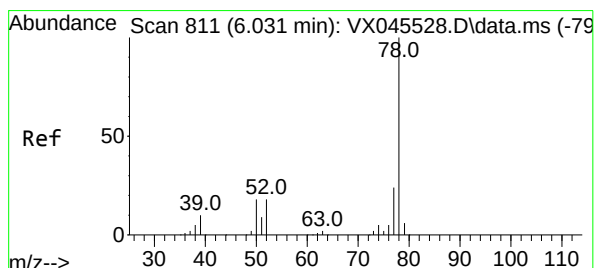
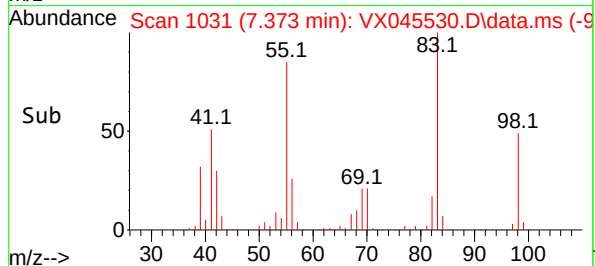
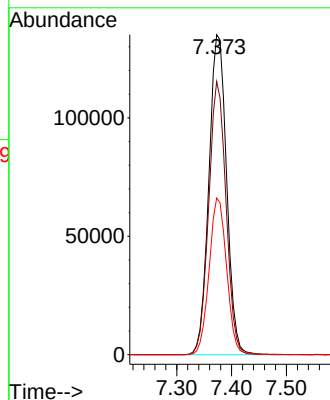
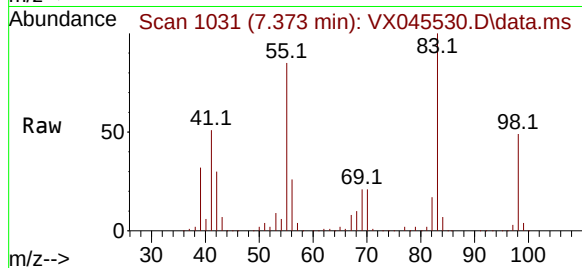
98 49.0 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#40

Benzene

Concen: 150.208 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045530.D

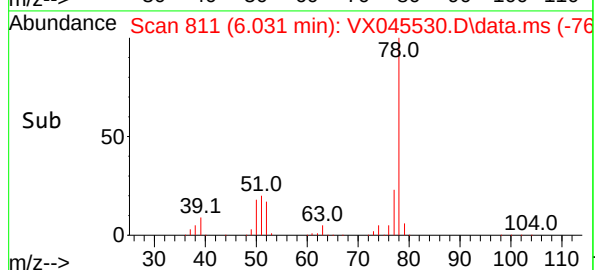
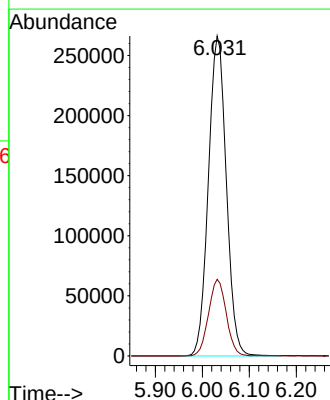
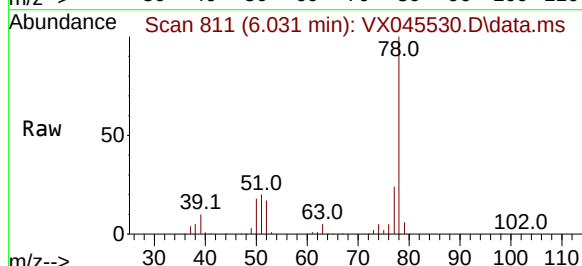
Acq: 01 Apr 2025 19:02

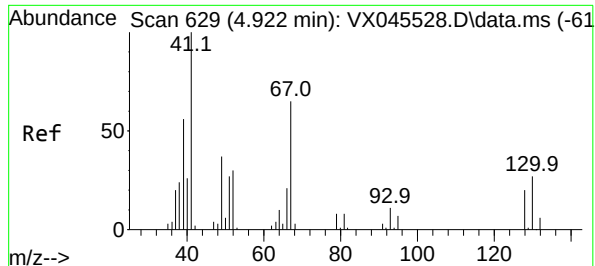
Tgt Ion: 78 Resp: 703311

Ion Ratio Lower Upper

78 100

77 24.0 19.0 28.6





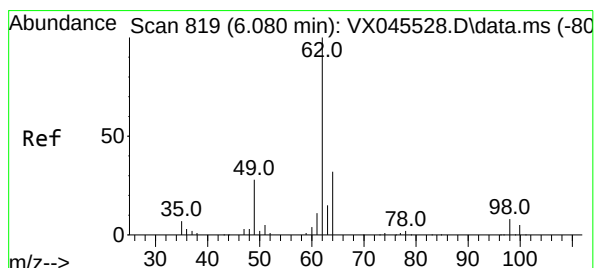
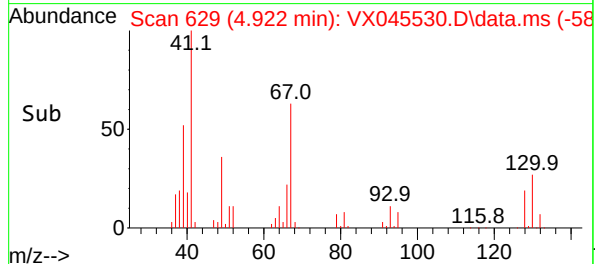
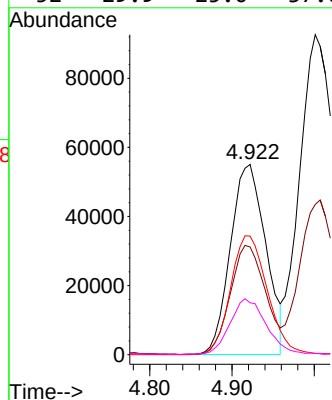
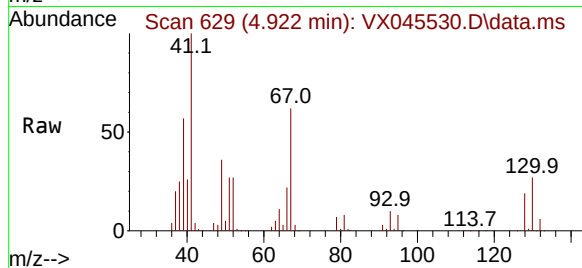
#41
Methacrylonitrile
Concen: 160.155 ug/l
RT: 4.922 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 41 Resp: 164699
Ion Ratio Lower Upper
41 100
39 57.4 47.0 70.6
67 65.5 53.2 79.8
52 29.9 25.0 37.6

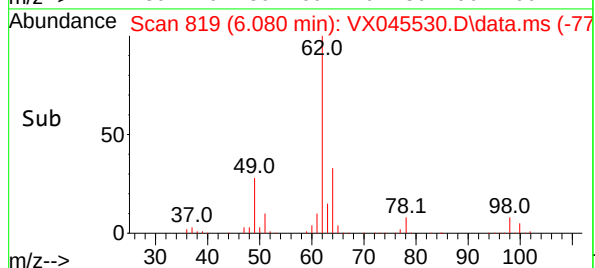
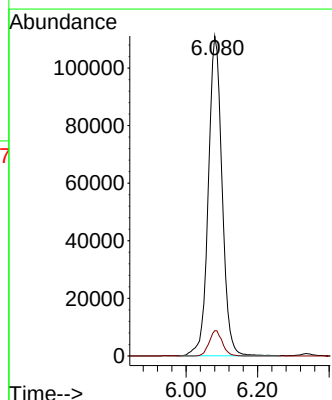
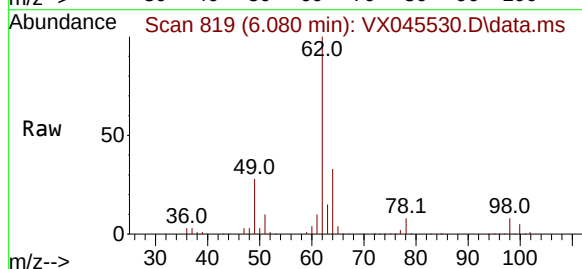
Manual Integrations
APPROVED

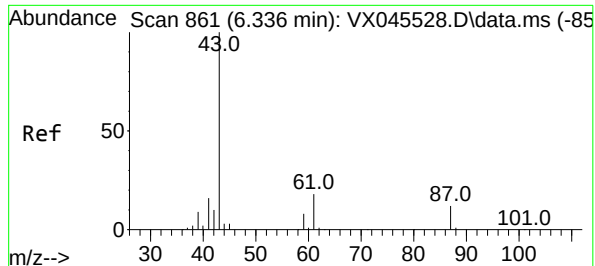
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#42
1,2-Dichloroethane
Concen: 153.146 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 62 Resp: 296168
Ion Ratio Lower Upper
62 100
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 162.494 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 47582

Ion Ratio Lower Upper

43 100

61 18.1 14.1 21.1

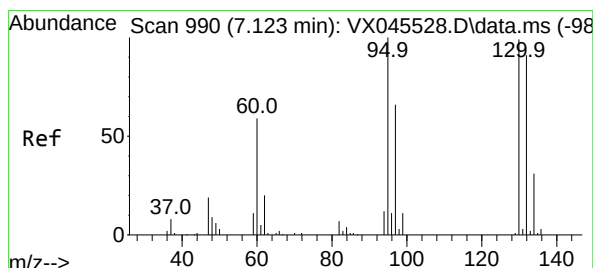
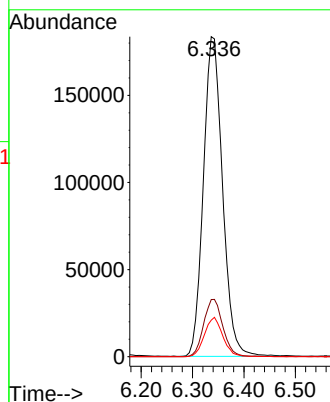
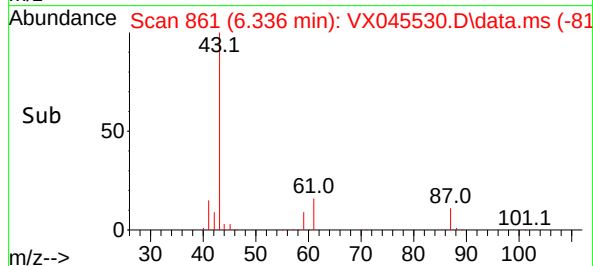
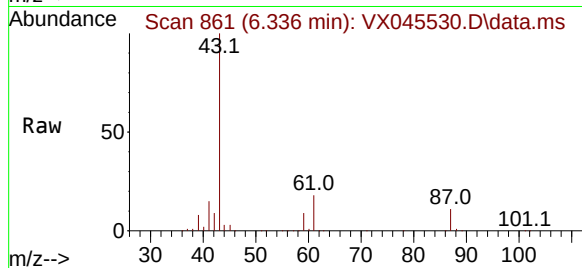
87 11.8 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#44

Trichloroethene

Concen: 153.599 ug/l

RT: 7.117 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX045530.D

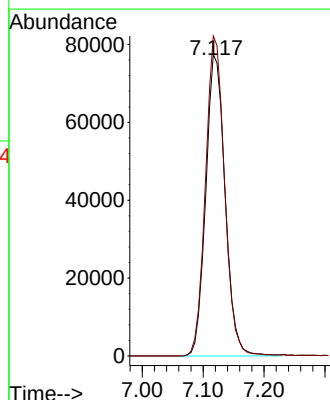
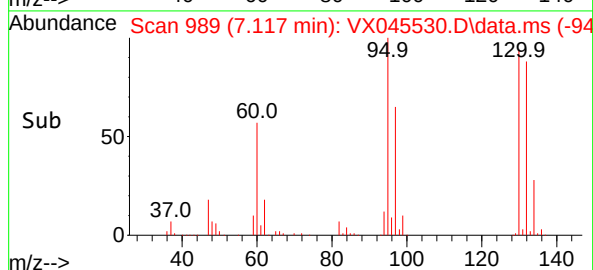
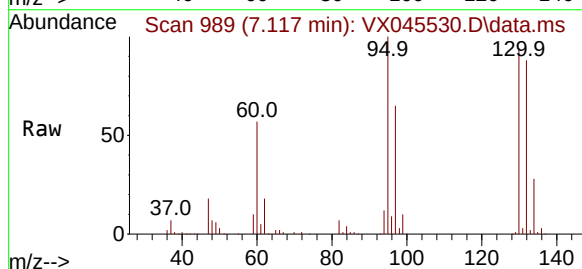
Acq: 01 Apr 2025 19:02

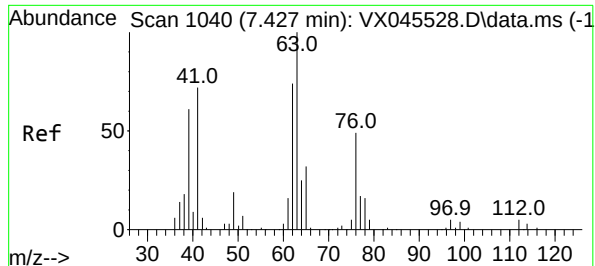
Tgt Ion:130 Resp: 170940

Ion Ratio Lower Upper

130 100

95 106.1 0.0 202.0





#45

1,2-Dichloropropane

Concen: 153.610 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 63 Resp: 17945

Ion Ratio Lower Upper

63 100

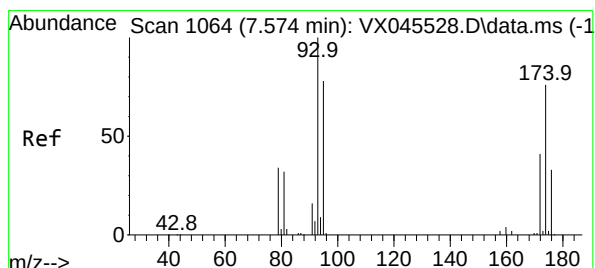
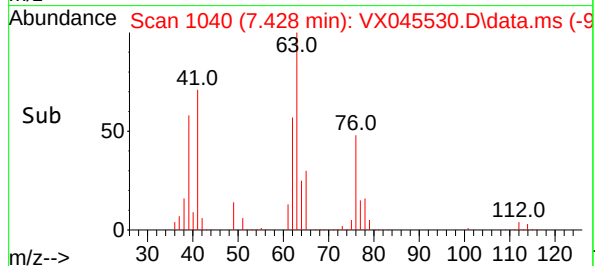
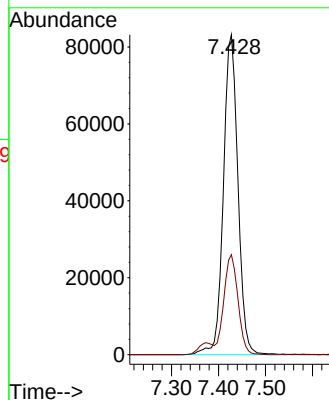
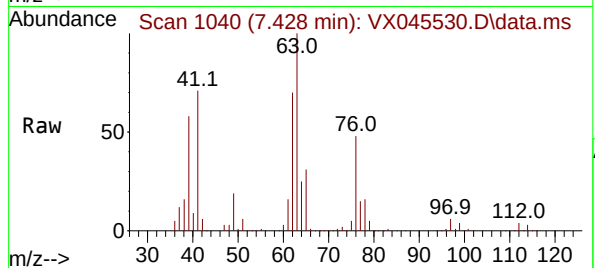
65 31.3 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#46

Dibromomethane

Concen: 150.996 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

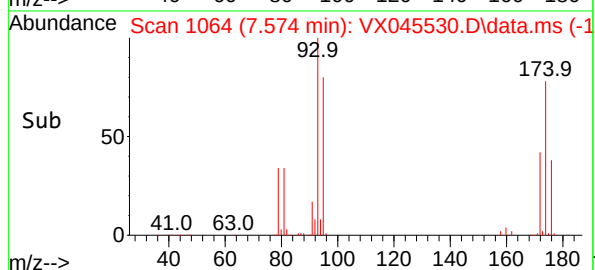
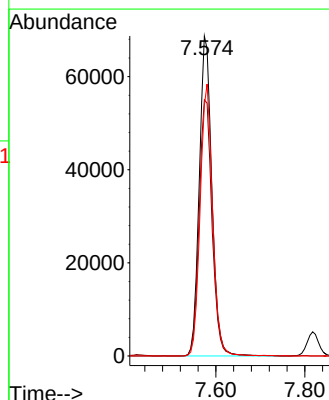
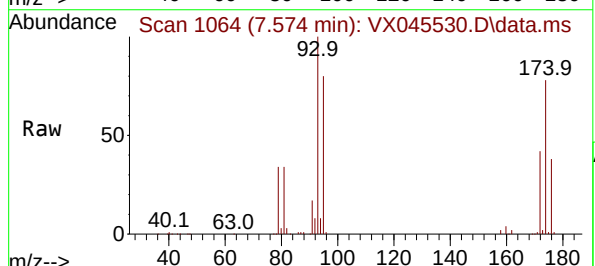
Tgt Ion: 93 Resp: 135415

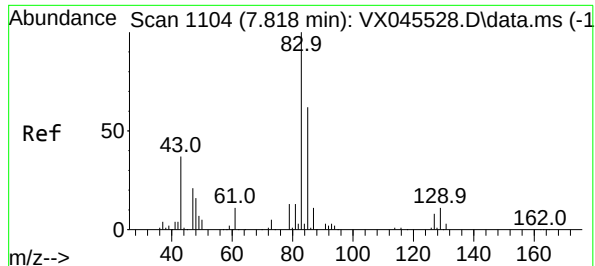
Ion Ratio Lower Upper

93 100

95 82.4 64.8 97.2

174 84.1 65.4 98.0





#47

Bromodichloromethane

Concen: 156.272 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 83 Resp: 27988

Ion Ratio Lower Upper

83 100

85 63.6 49.7 74.5

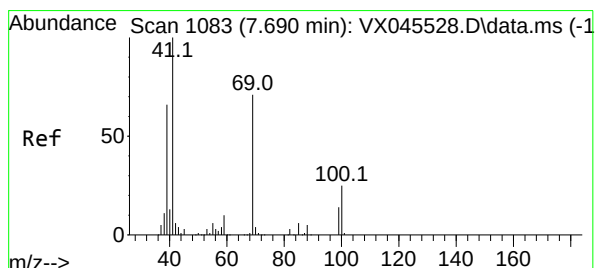
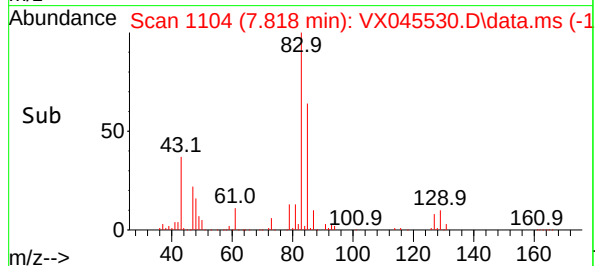
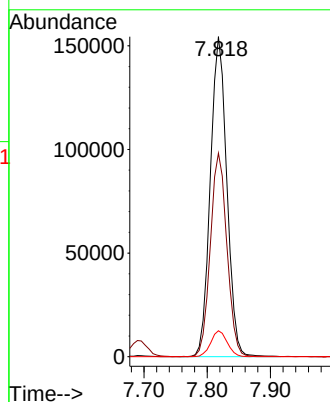
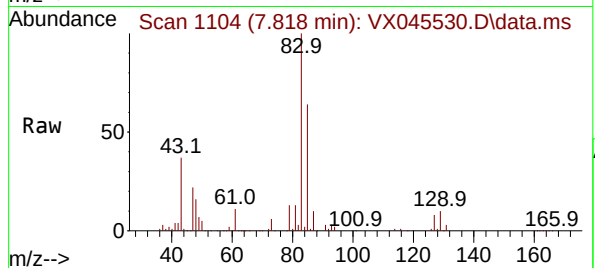
127 8.1 6.1 9.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#48

Methyl methacrylate

Concen: 159.281 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

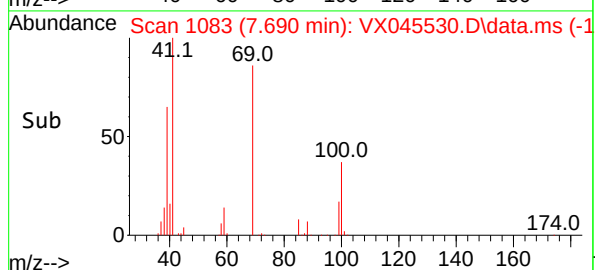
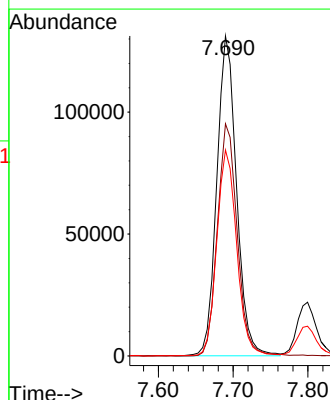
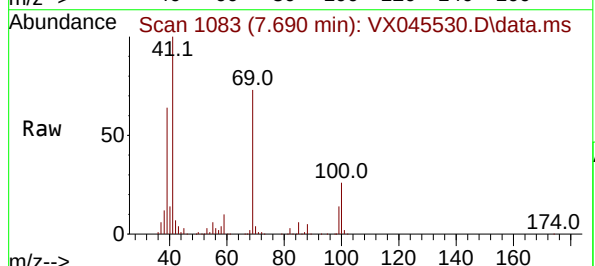
Tgt Ion: 41 Resp: 240818

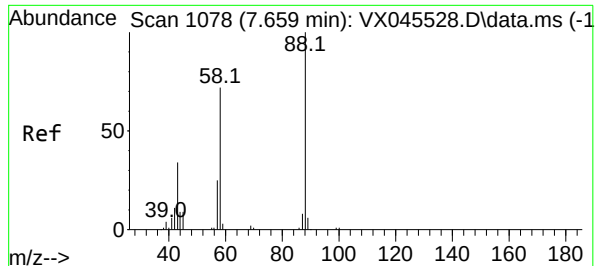
Ion Ratio Lower Upper

41 100

69 73.0 58.2 87.2

39 64.9 53.6 80.4





#49

1,4-Dioxane

Concen: 2739.196 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

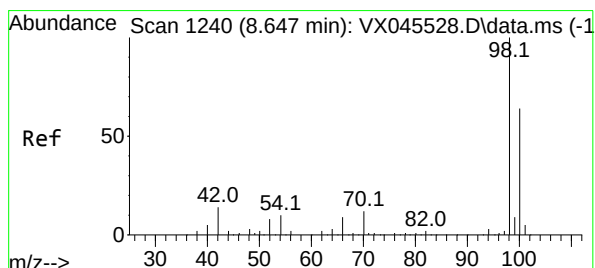
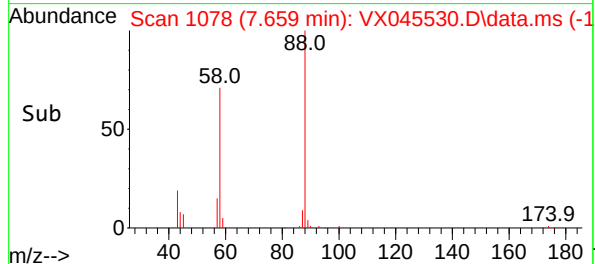
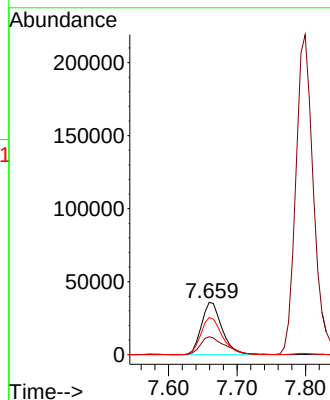
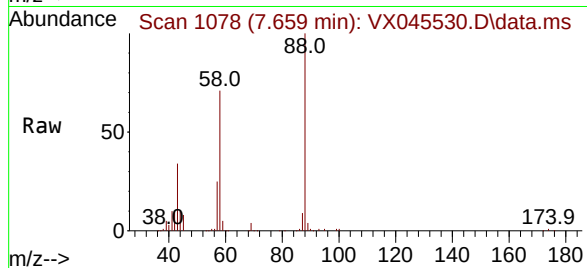
Tgt Ion:	88	Resp:	74929
Ion	Ratio	Lower	Upper
88	100		
43	40.8	32.2	48.4
58	74.2	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#50

Toluene-d8

Concen: 152.216 ug/l

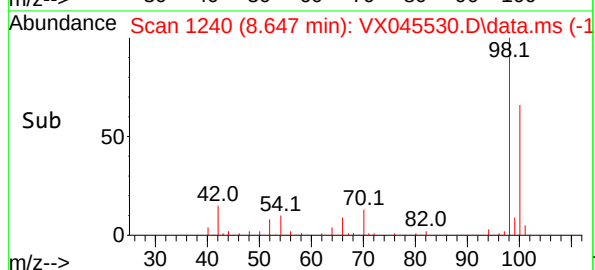
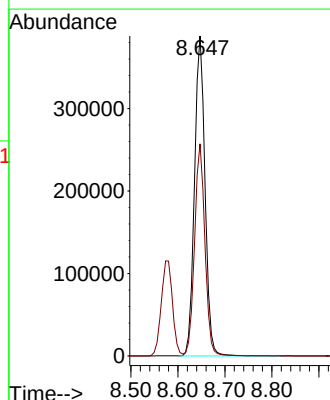
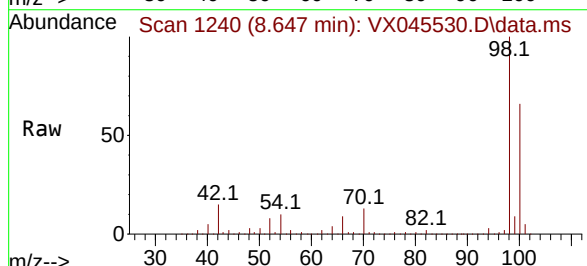
RT: 8.647 min Scan# 1240

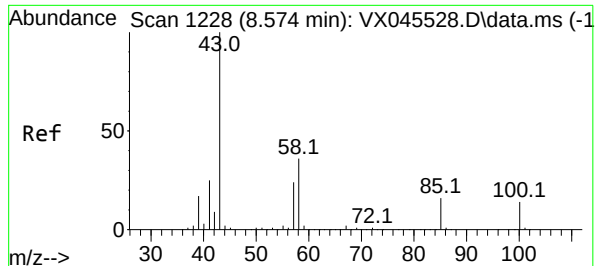
Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Tgt Ion:	98	Resp:	603264
Ion	Ratio	Lower	Upper
98	100		
100	65.5	52.2	78.4





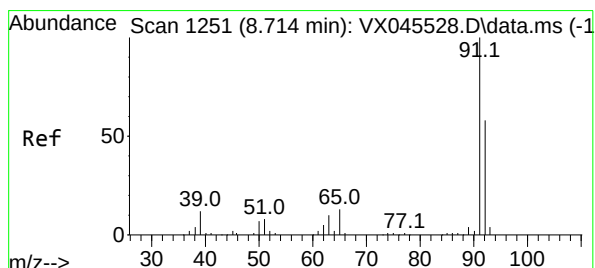
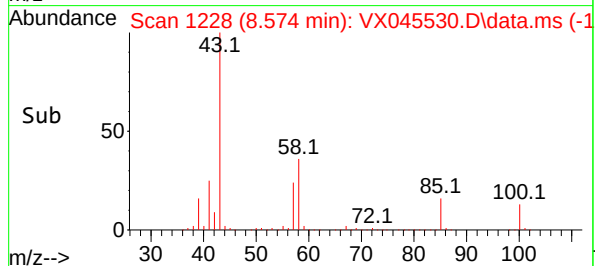
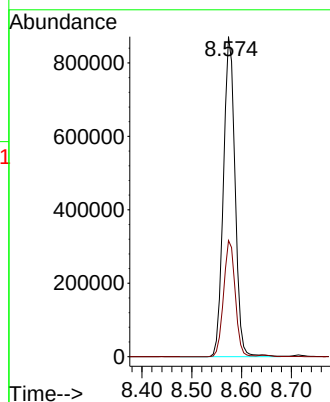
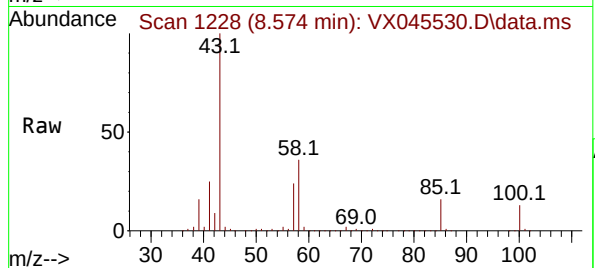
#51
4-Methyl-2-Pentanone
Concen: 728.817 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 141477
Ion Ratio Lower Upper
43 100
58 36.2 28.5 42.7

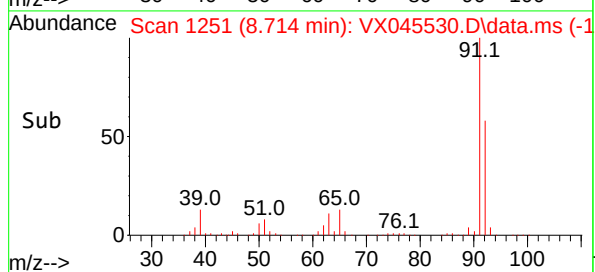
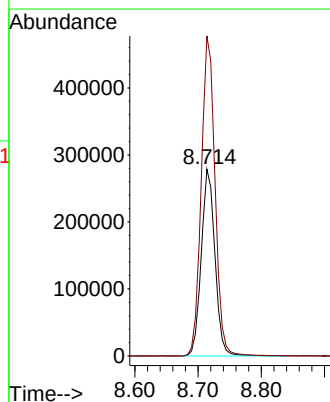
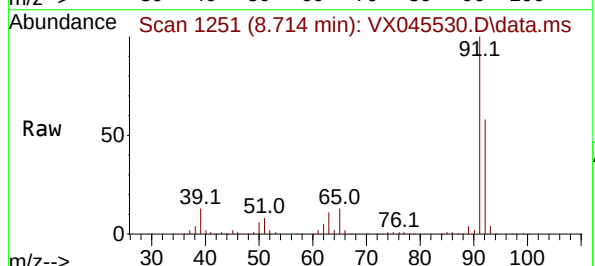
Manual Integrations
APPROVED

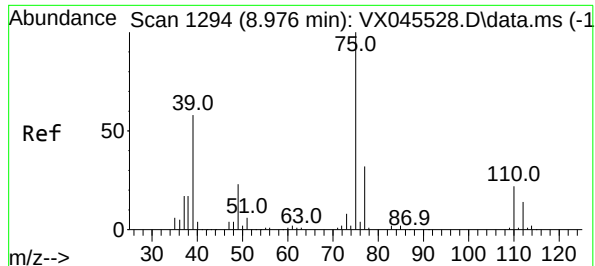
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#52
Toluene
Concen: 148.245 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 92 Resp: 420015
Ion Ratio Lower Upper
92 100
91 173.3 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 150.589 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 26767

Ion Ratio Lower Upper

75 100

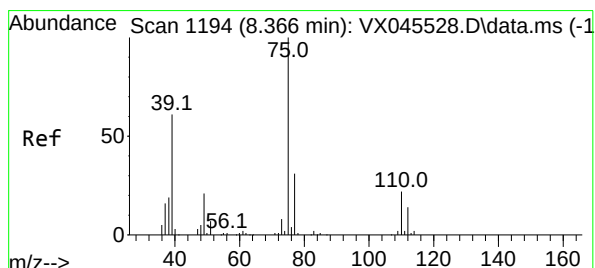
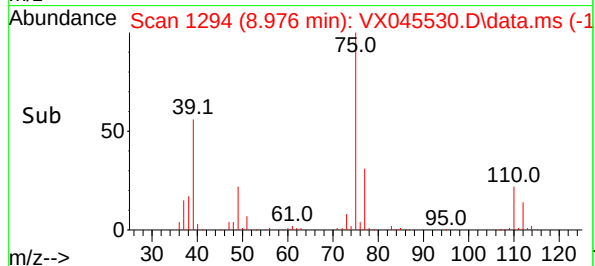
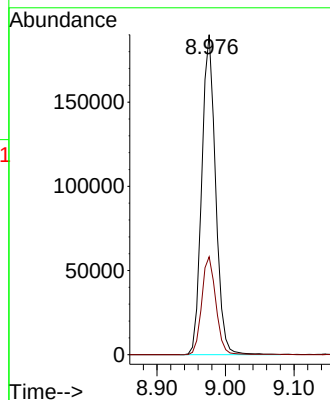
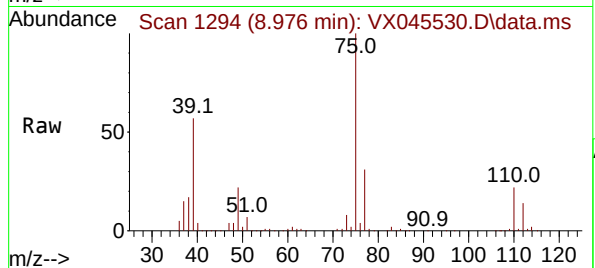
77 30.6 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#54

cis-1,3-Dichloropropene

Concen: 171.104 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

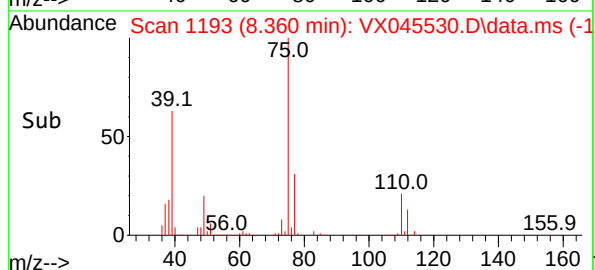
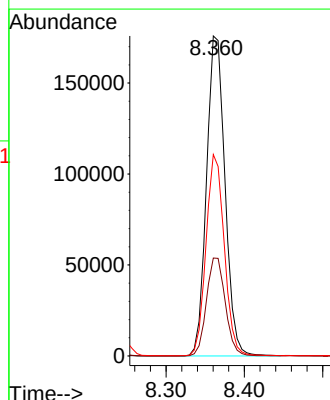
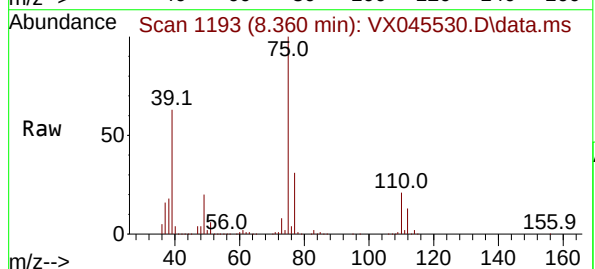
Tgt Ion: 75 Resp: 287973

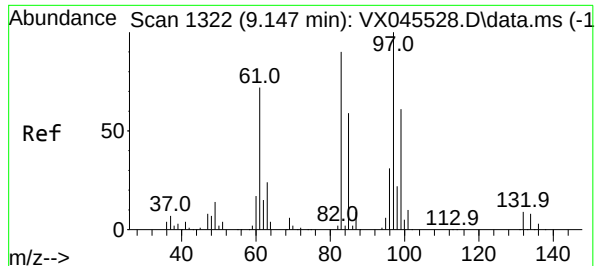
Ion Ratio Lower Upper

75 100

77 30.6 24.6 36.8

39 62.9 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 144.752 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 97 Resp: 163420

Ion Ratio Lower Upper

97 100

83 88.2 71.8 107.8

85 55.9 47.0 70.6

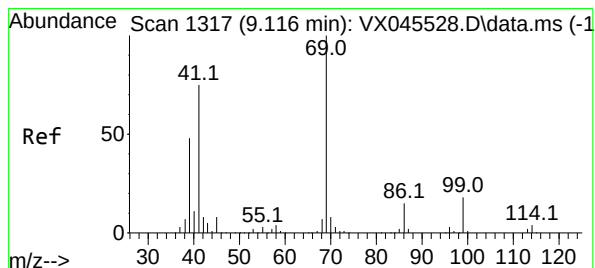
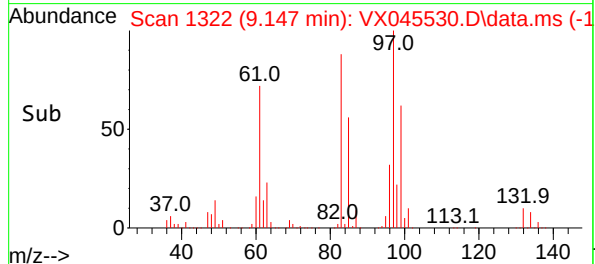
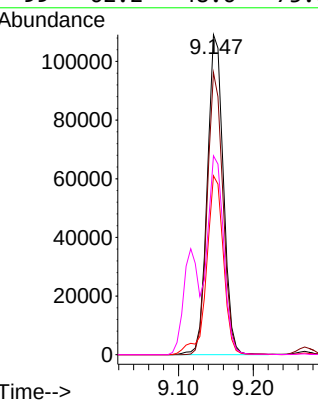
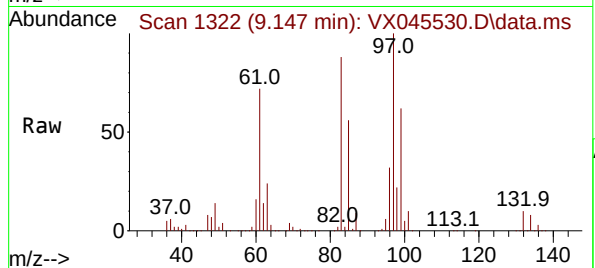
99 62.2 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#56

Ethyl methacrylate

Concen: 163.624 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

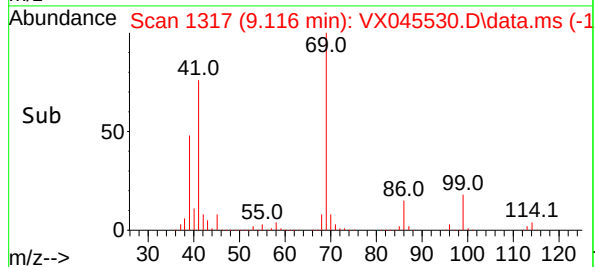
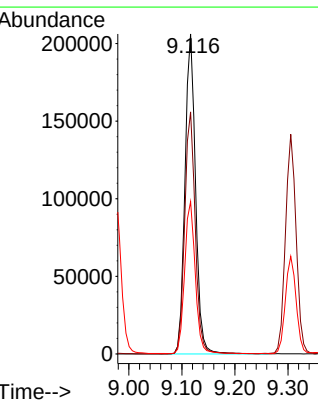
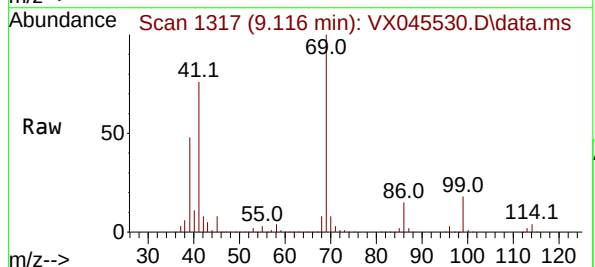
Tgt Ion: 69 Resp: 285895

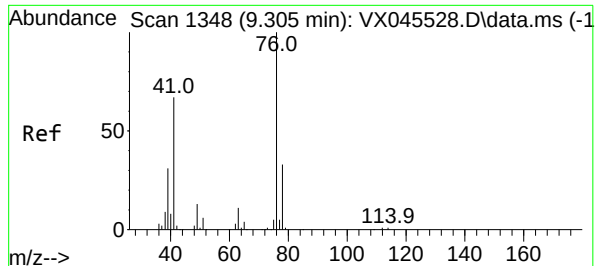
Ion Ratio Lower Upper

69 100

41 76.2 61.3 91.9

39 48.0 40.2 60.2





#57

1,3-Dichloropropane

Concen: 146.708 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 288430

Ion Ratio Lower Upper

76 100

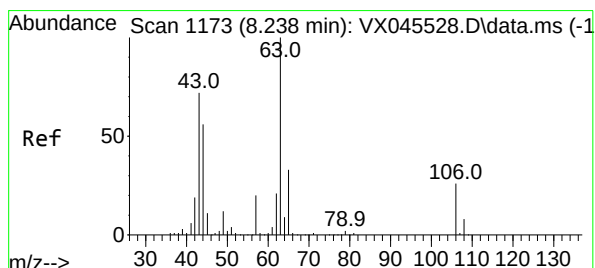
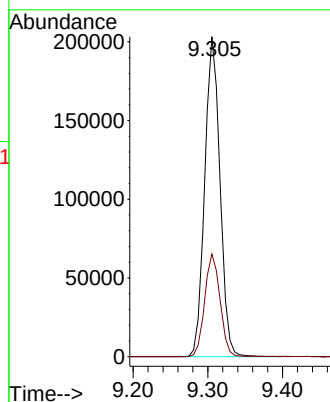
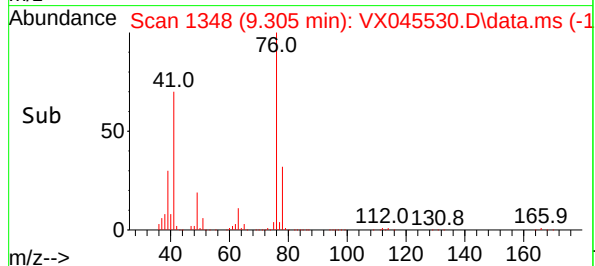
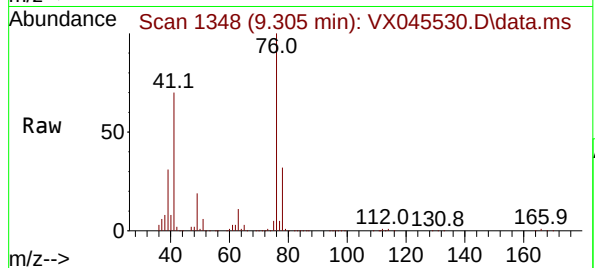
78 32.2 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#58

2-Chloroethyl Vinyl ether

Concen: 796.340 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045530.D

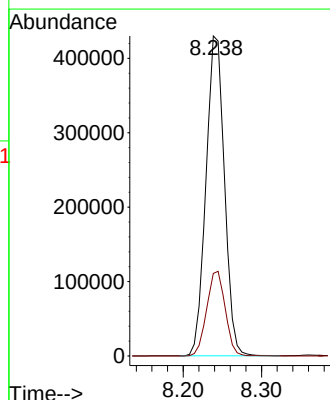
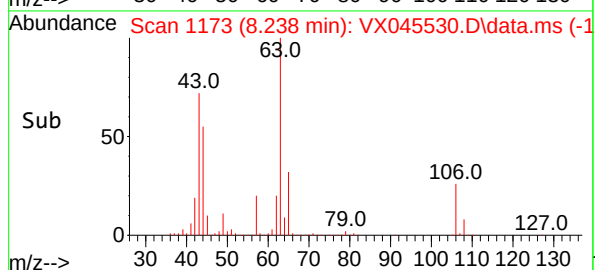
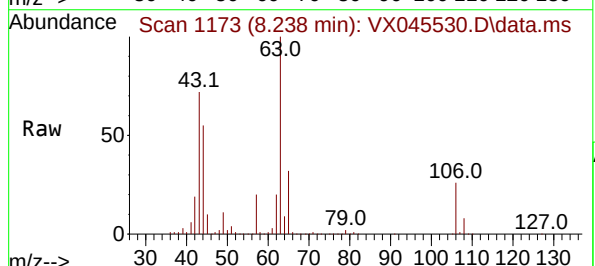
Acq: 01 Apr 2025 19:02

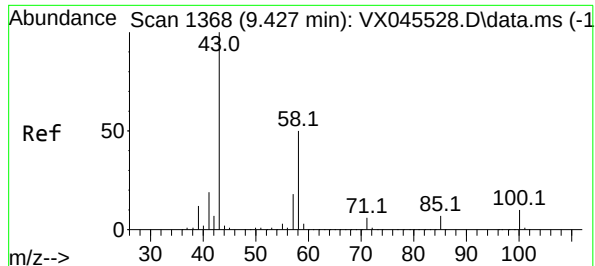
Tgt Ion: 63 Resp: 703881

Ion Ratio Lower Upper

63 100

106 26.6 21.0 31.6





#59

2-Hexanone

Concen: 733.198 ug/l

RT: 9.433 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 105397

Ion Ratio Lower Upper

43 100

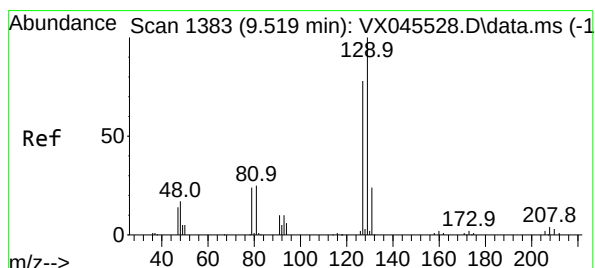
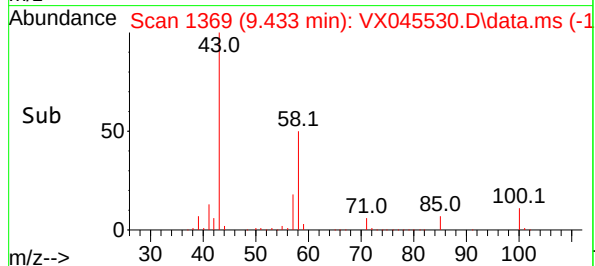
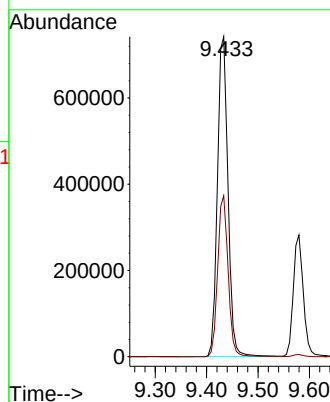
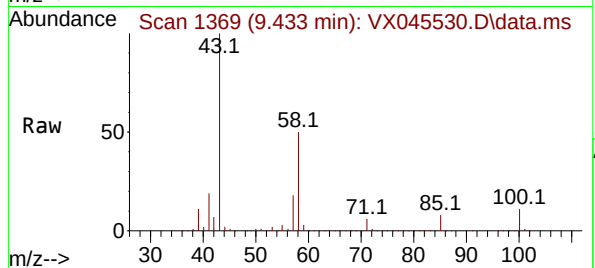
58 49.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#60

Dibromochloromethane

Concen: 157.895 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045530.D

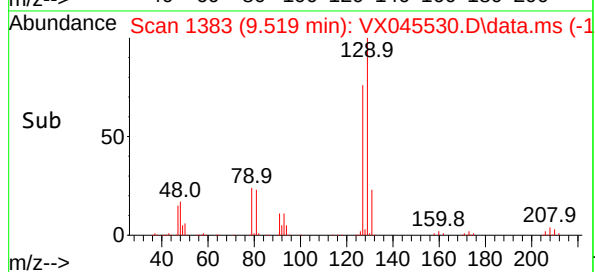
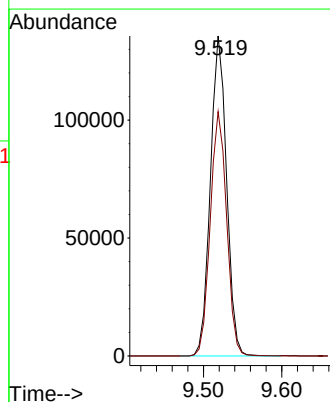
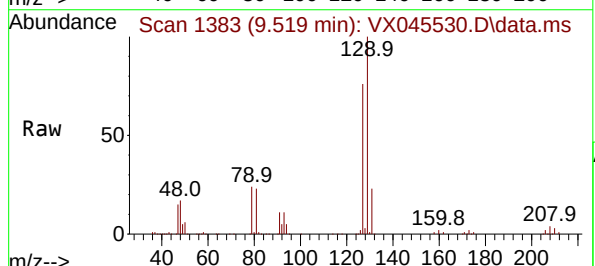
Acq: 01 Apr 2025 19:02

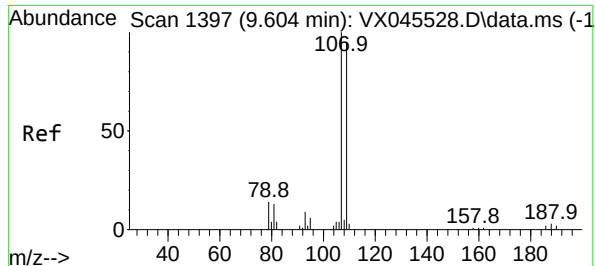
Tgt Ion:129 Resp: 194342

Ion Ratio Lower Upper

129 100

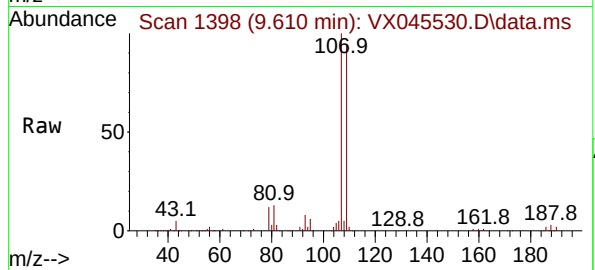
127 77.4 39.4 118.2





#61
1,2-Dibromoethane
Concen: 152.745 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

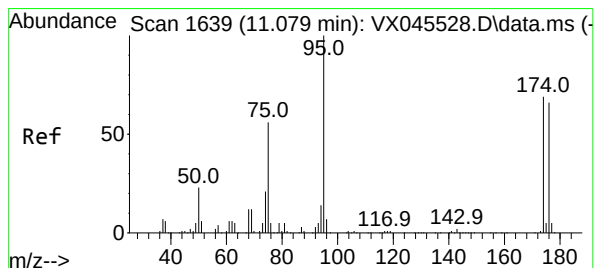
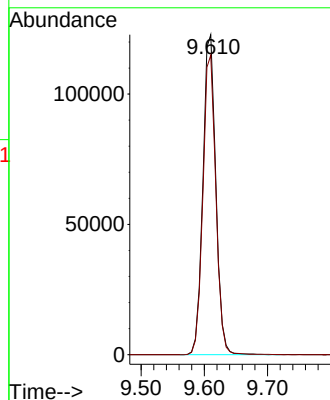
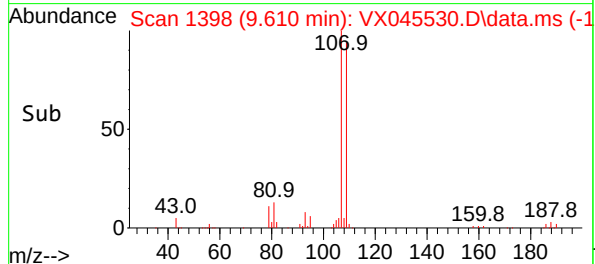
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:107 Resp: 17457
Ion Ratio Lower Upper
107 100
109 93.9 75.7 113.5

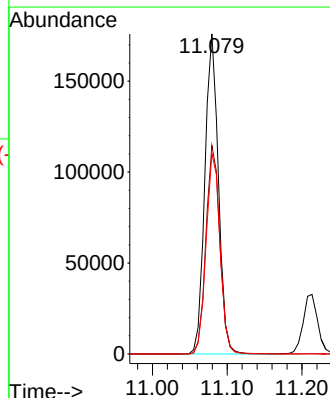
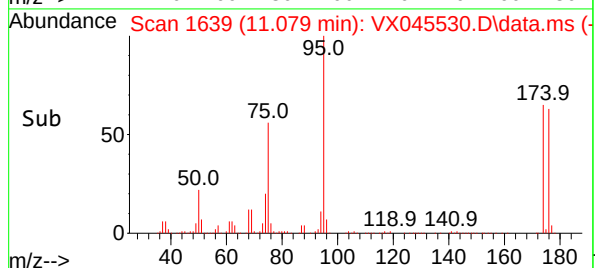
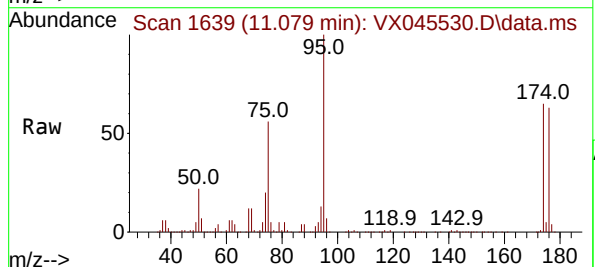
Manual Integrations
APPROVED

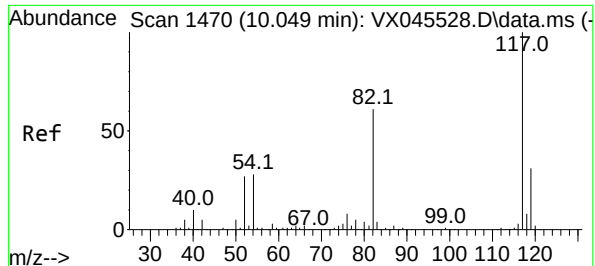
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#62
4-Bromofluorobenzene
Concen: 153.035 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 95 Resp: 220921
Ion Ratio Lower Upper
95 100
174 66.9 0.0 135.8
176 64.3 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

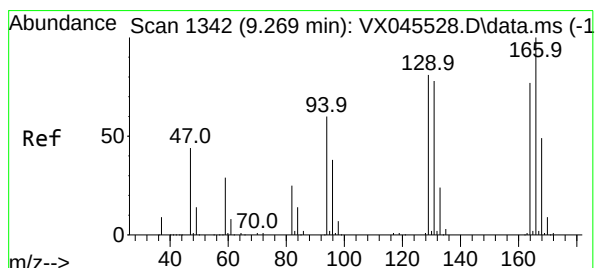
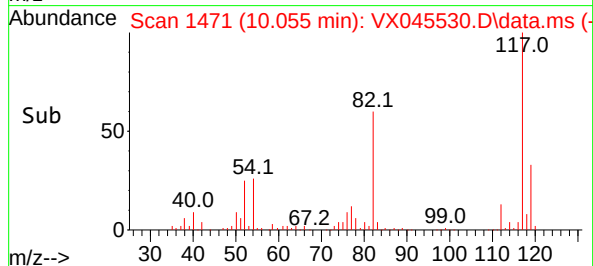
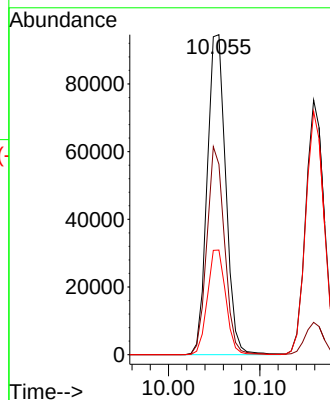
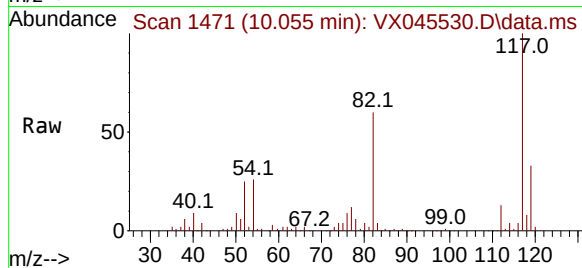
VSTDIC150

Tgt Ion:117	Resp: 13334
Ion Ratio	Lower Upper
117 100	
82 59.5	49.2 73.8
119 32.7	25.1 37.7

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#64

Tetrachloroethene

Concen: 147.568 ug/l

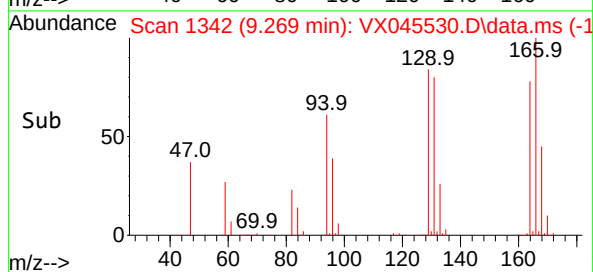
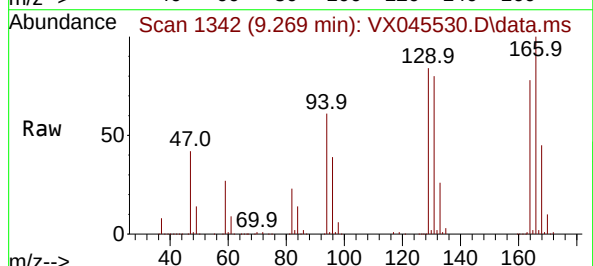
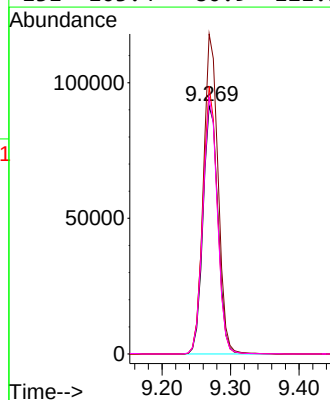
RT: 9.269 min Scan# 1342

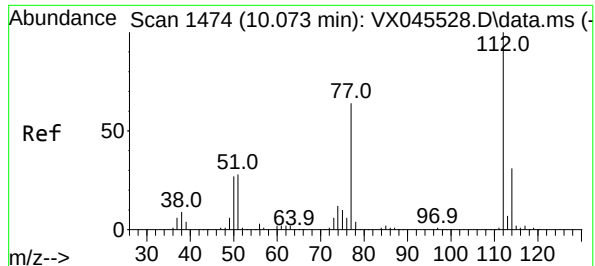
Delta R.T. -0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Tgt Ion:164	Resp: 138926
Ion Ratio	Lower Upper
164 100	
166 128.9	103.8 155.8
129 107.9	84.3 126.5
131 103.4	80.9 121.3





#65

Chlorobenzene

Concen: 156.049 ug/l

RT: 10.080 min Scan# 1474

Delta R.T. 0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:112 Resp: 44463

Ion Ratio Lower Upper

112 100

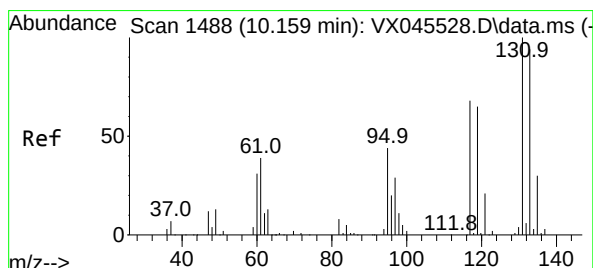
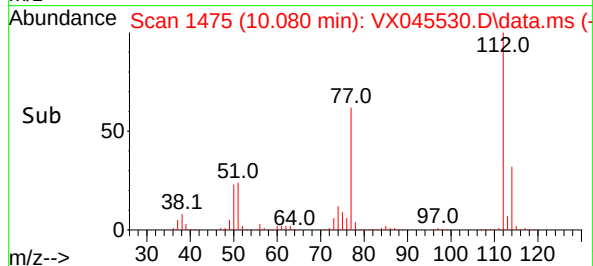
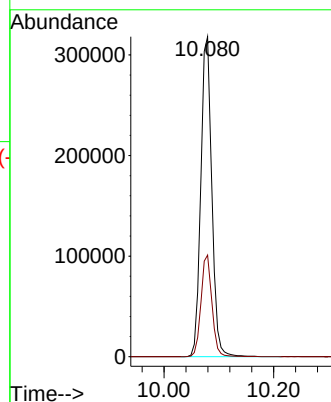
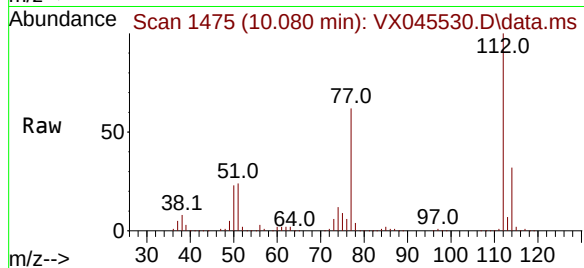
114 31.7 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 157.769 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

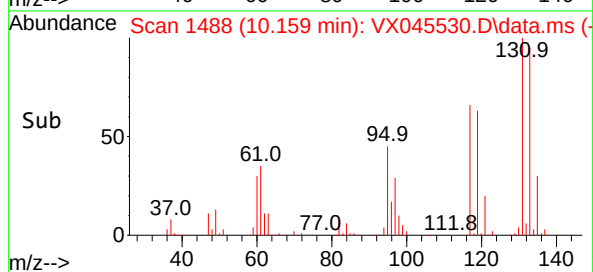
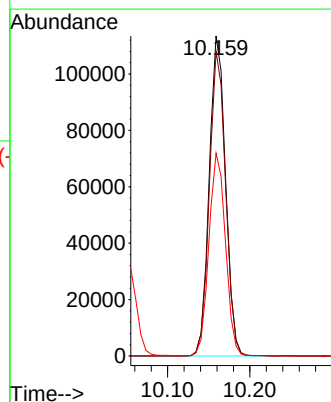
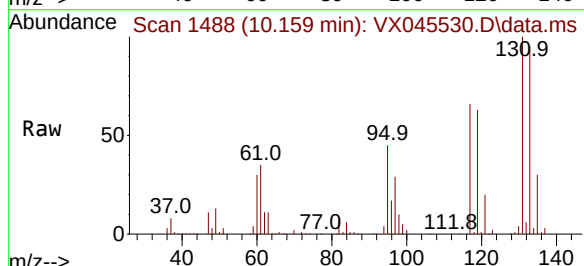
Tgt Ion:131 Resp: 156069

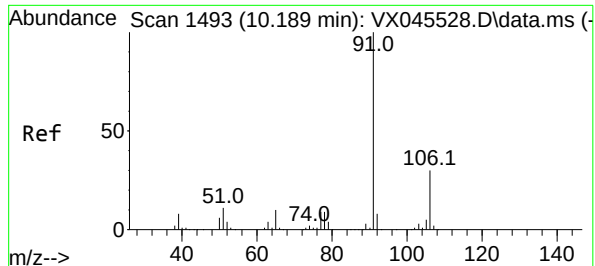
Ion Ratio Lower Upper

131 100

133 94.6 47.5 142.5

119 64.4 32.9 98.6





#67

Ethyl Benzene

Concen: 160.907 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 821130

Ion Ratio Lower Upper

91 100

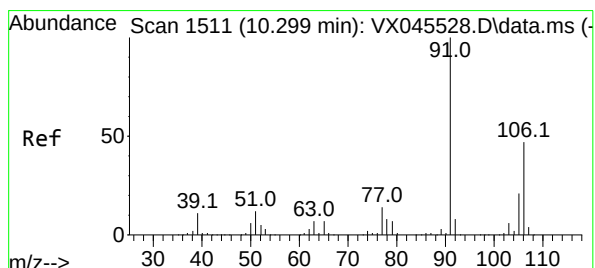
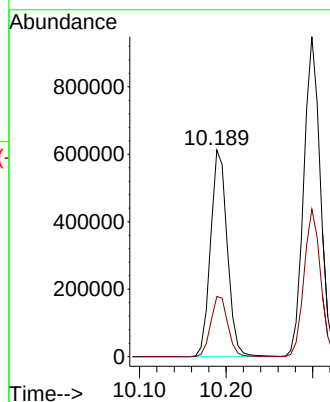
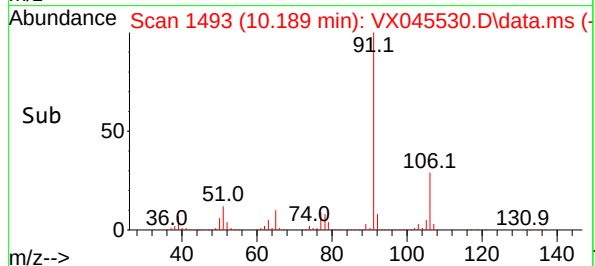
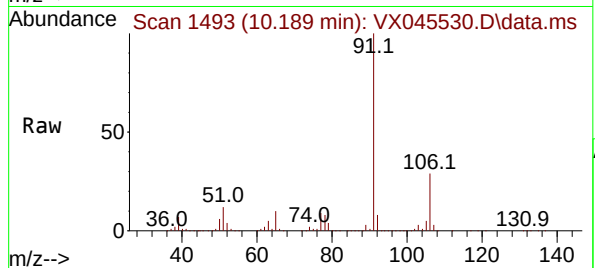
106 29.1 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#68

m/p-Xylenes

Concen: 314.231 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045530.D

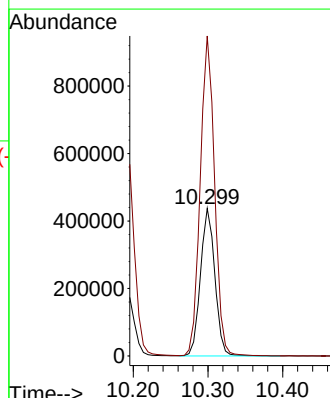
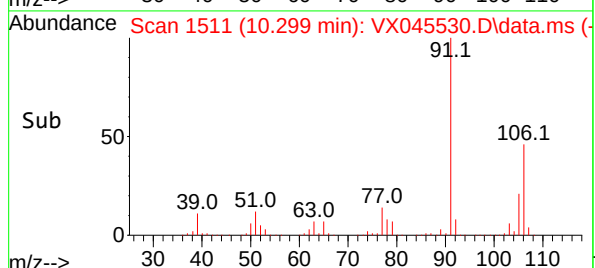
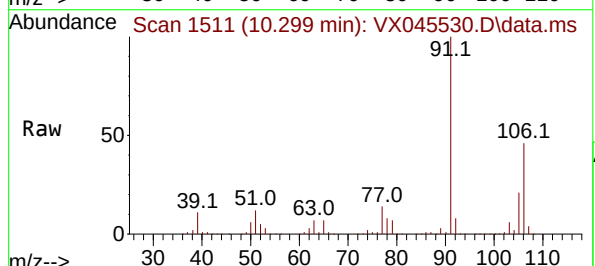
Acq: 01 Apr 2025 19:02

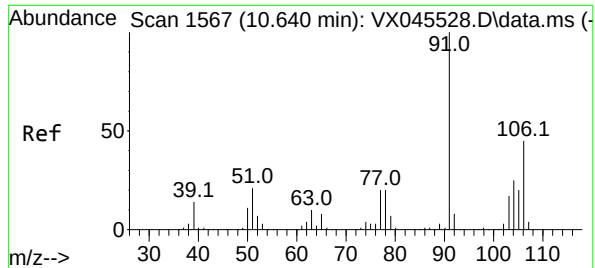
Tgt Ion:106 Resp: 583228

Ion Ratio Lower Upper

106 100

91 216.7 172.6 258.8





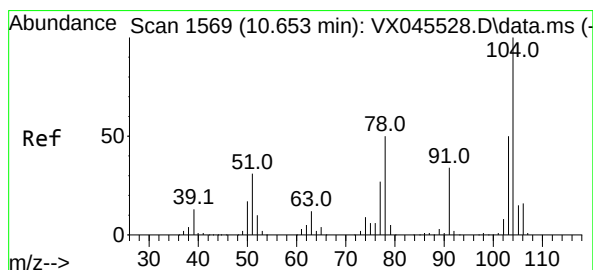
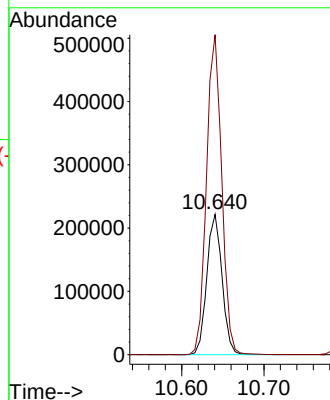
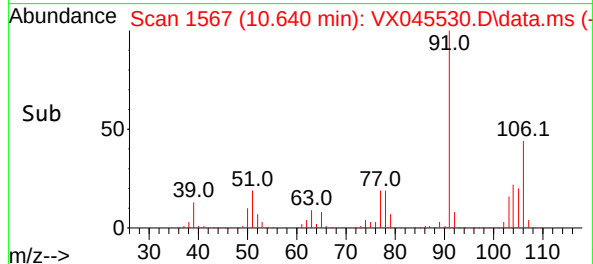
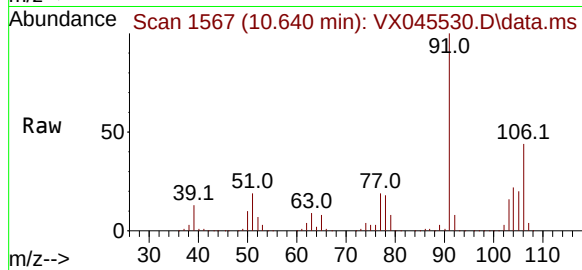
#69
o-Xylene
Concen: 156.241 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 285670
Ion Ratio Lower Upper
106 100
91 227.6 113.6 340.6

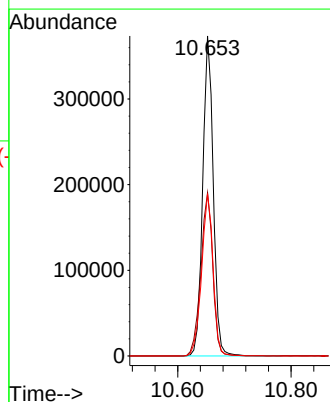
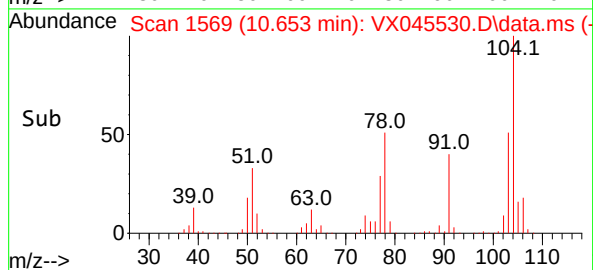
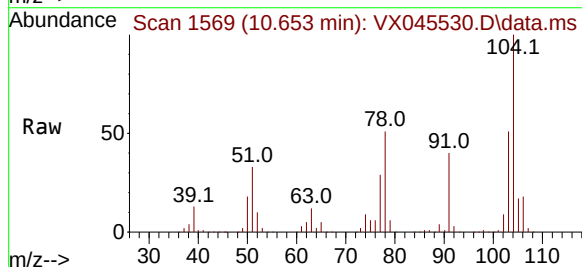
Manual Integrations
APPROVED

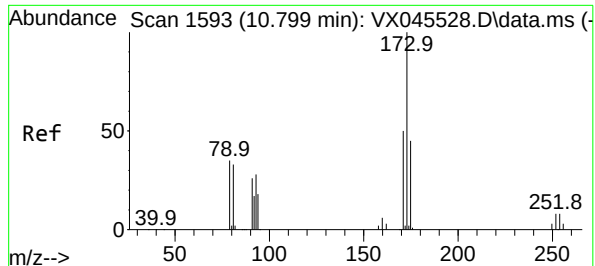
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#70
Styrene
Concen: 159.299 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

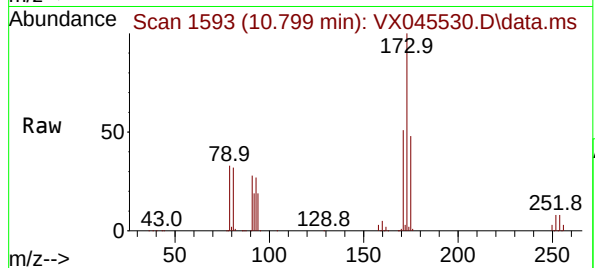
Tgt Ion:104 Resp: 480722
Ion Ratio Lower Upper
104 100
78 57.9 45.4 68.2
103 55.4 43.8 65.8





#71
Bromoform
Concen: 170.743 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

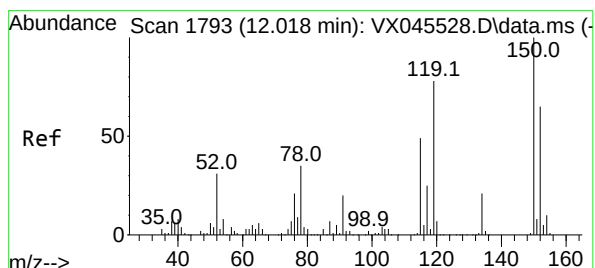
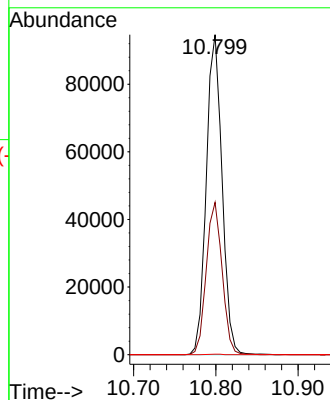
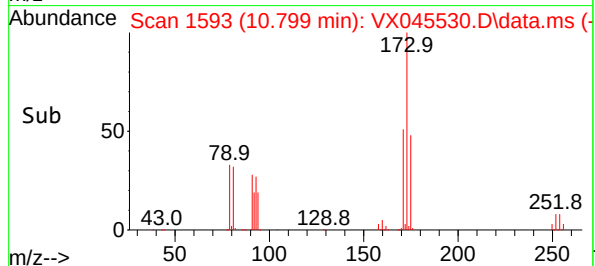
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 126115
Ion Ratio Lower Upper
173 100
175 48.0 23.4 70.2
254 0.1 0.0 0.0

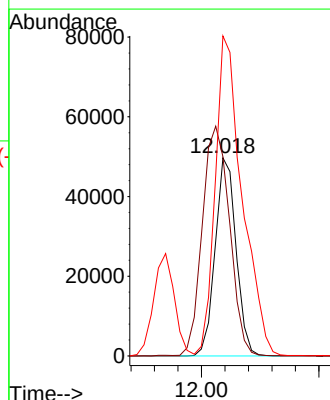
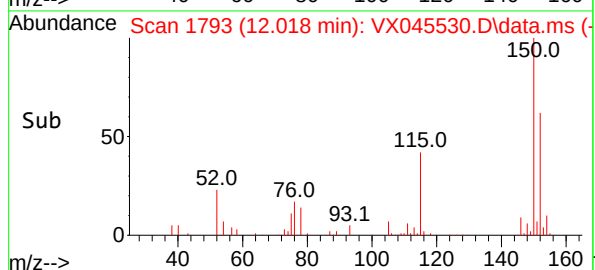
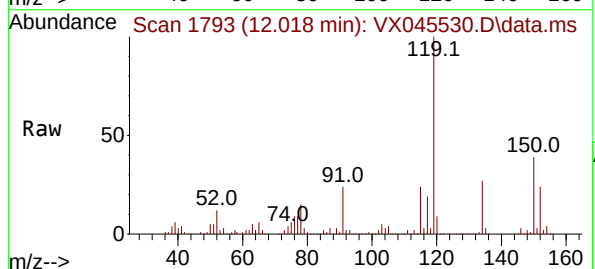
Manual Integrations
APPROVED

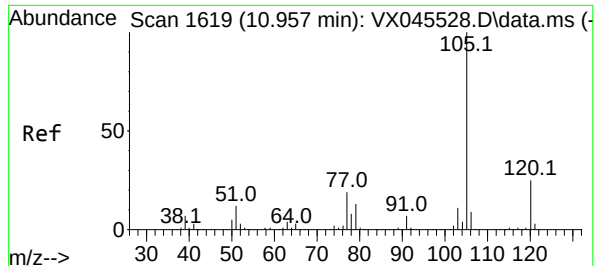
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:152 Resp: 61380
Ion Ratio Lower Upper
152 100
115 151.4 46.9 140.7#
150 208.6 0.0 349.4





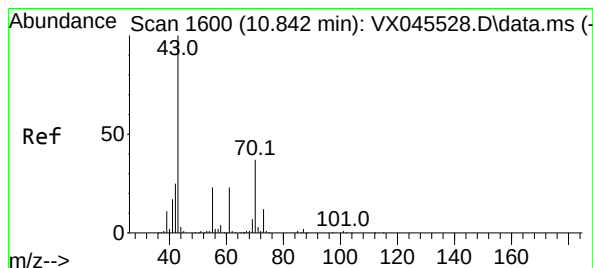
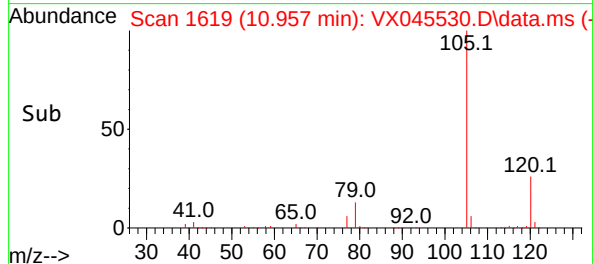
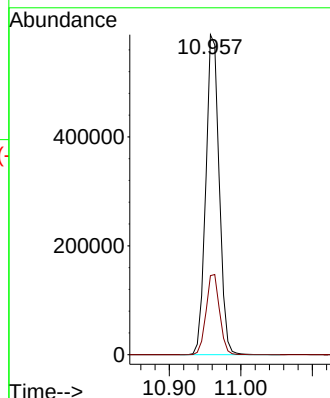
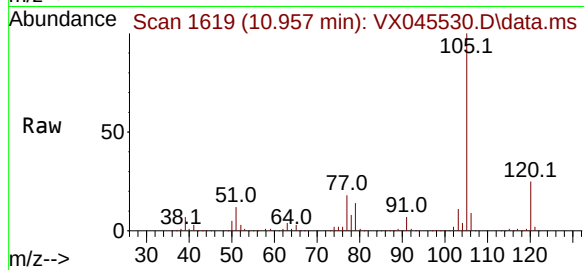
#73
Isopropylbenzene
Concen: 155.475 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 764400
Ion Ratio Lower Upper
105 100
120 25.3 12.7 38.0

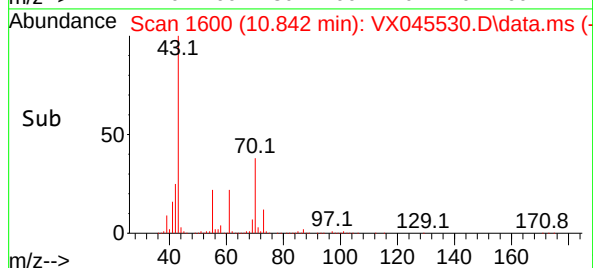
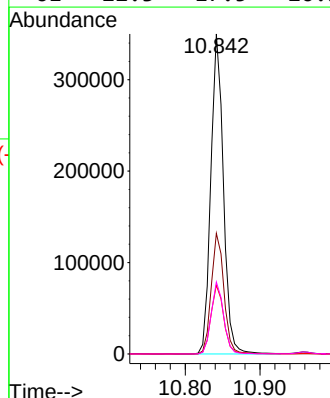
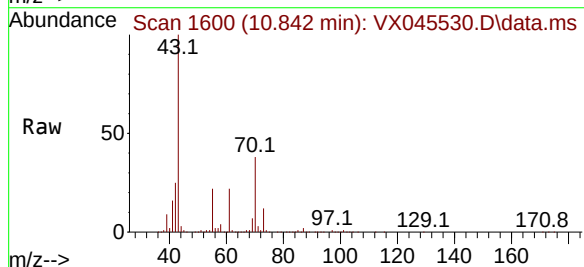
Manual Integrations
APPROVED

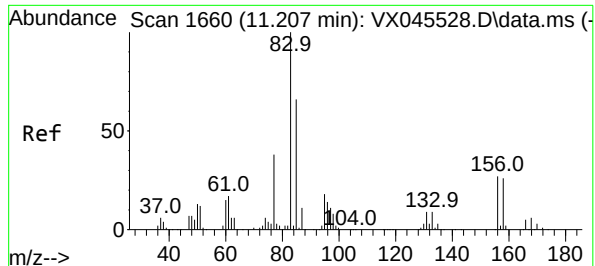
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#74
N-ethyl acetate
Concen: 173.877 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 43 Resp: 408934
Ion Ratio Lower Upper
43 100
70 38.3 30.1 45.1
55 22.0 18.3 27.5
61 22.3 17.5 26.3





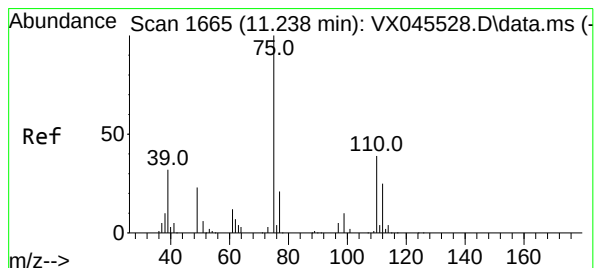
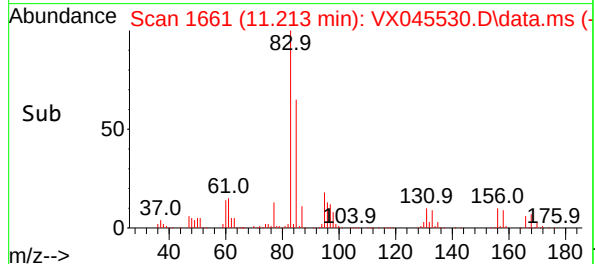
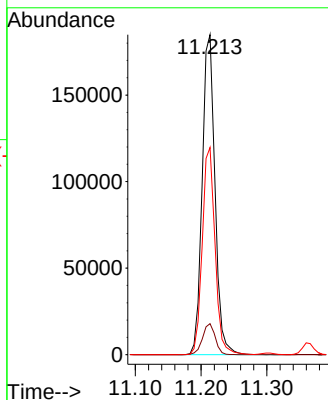
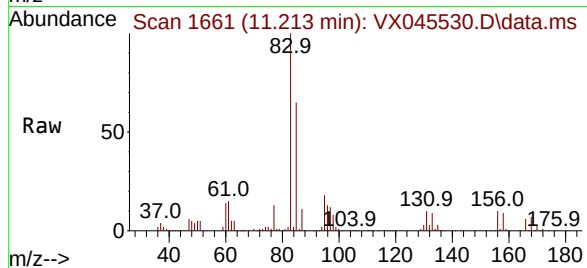
#75
1,1,2,2-Tetrachloroethane
Concen: 144.737 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 249980
Ion Ratio Lower Upper
83 100
131 9.7 4.7 14.1
85 64.8 32.4 97.2

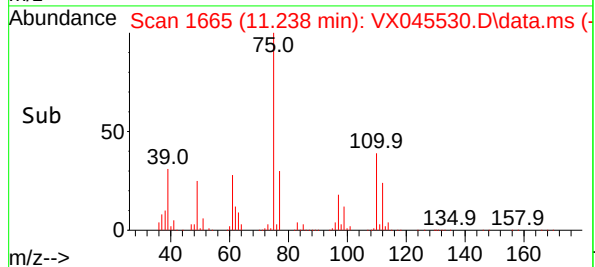
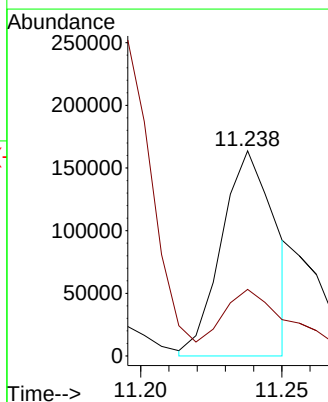
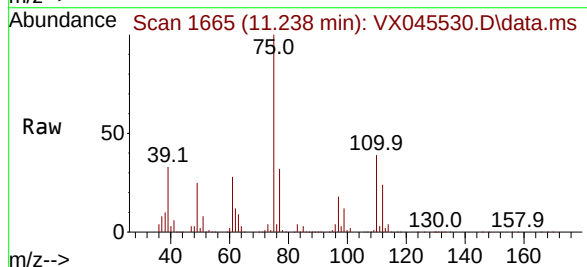
Manual Integrations
APPROVED

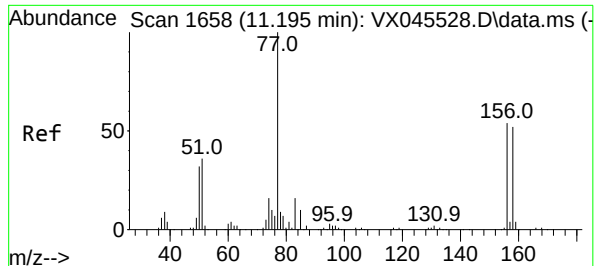
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#76
1,2,3-Trichloropropane
Concen: 144.064 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

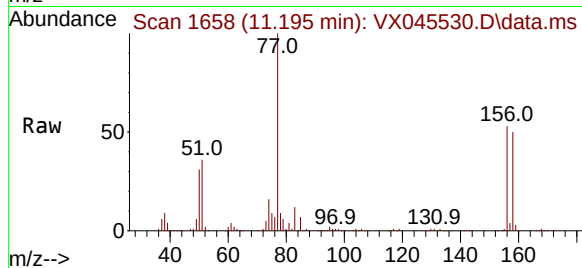
Tgt Ion: 75 Resp: 215694
Ion Ratio Lower Upper
75 100
77 42.3 20.0 59.9





#77
Bromobenzene
Concen: 151.033 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

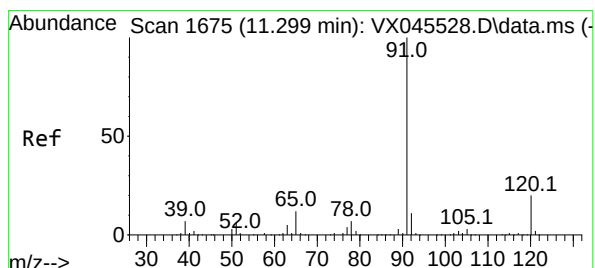
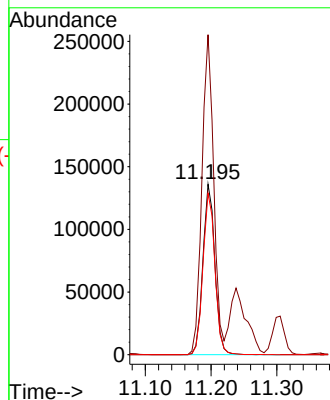
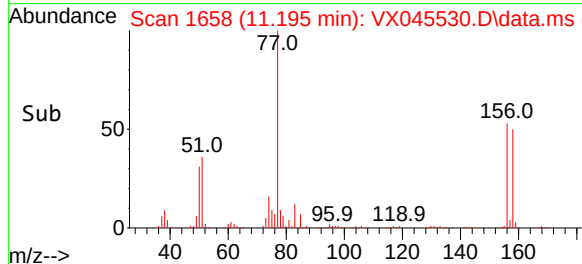
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



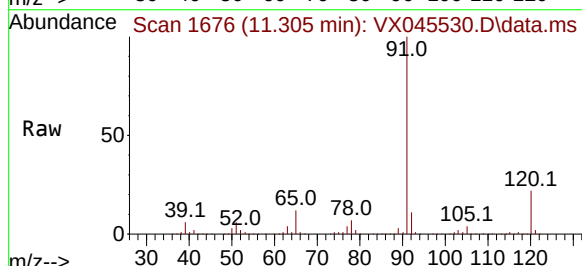
Tgt Ion: 156 Resp: 17157
Ion Ratio Lower Upper
156 100
77 185.8 92.6 277.8
158 95.3 48.1 144.4

Manual Integrations
APPROVED

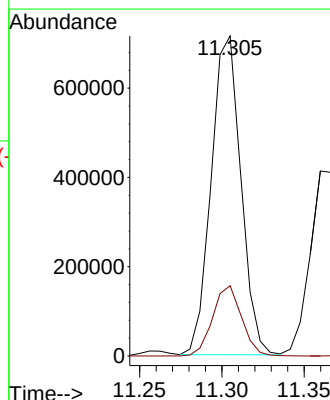
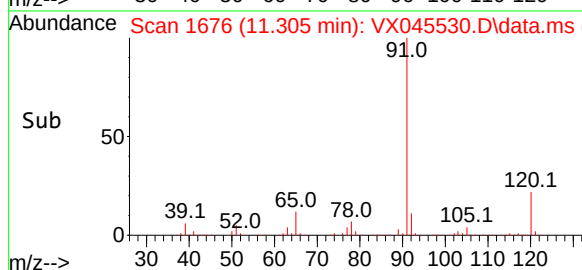
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

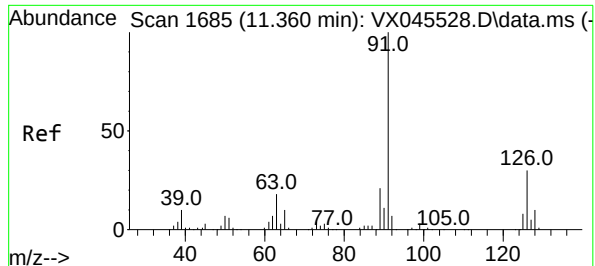


#78
n-propylbenzene
Concen: 158.408 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02



Tgt Ion: 91 Resp: 897084
Ion Ratio Lower Upper
91 100
120 21.5 10.8 32.3





#79

2-Chlorotoluene

Concen: 148.399 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 53726

Ion Ratio Lower Upper

91 100

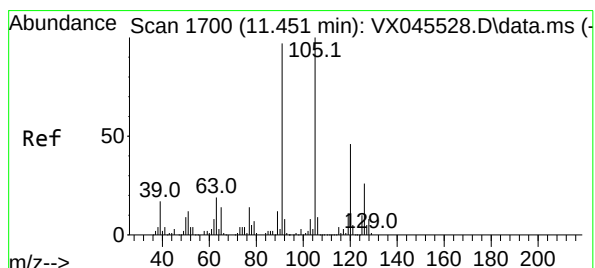
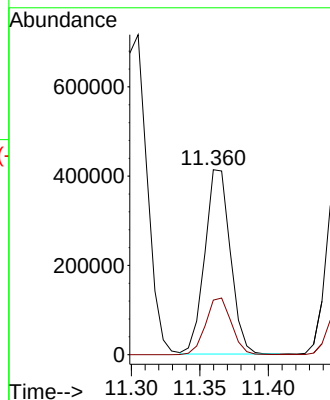
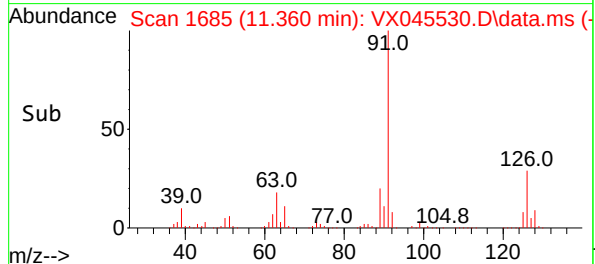
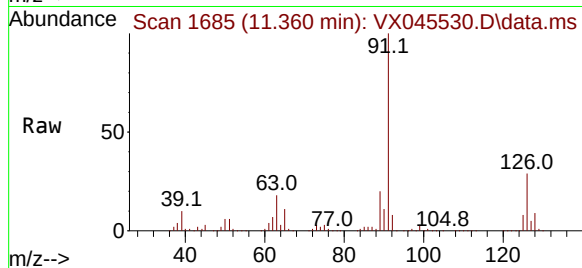
126 30.9 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#80

1,3,5-Trimethylbenzene

Concen: 152.700 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045530.D

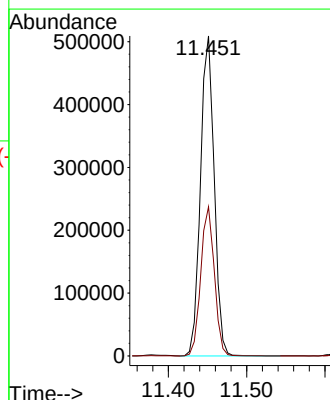
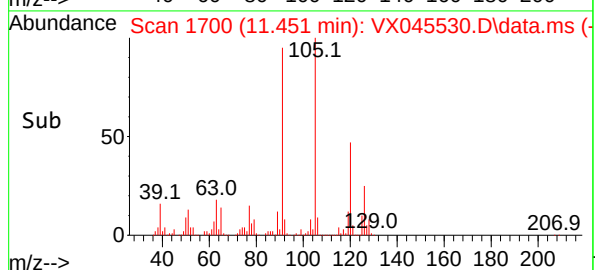
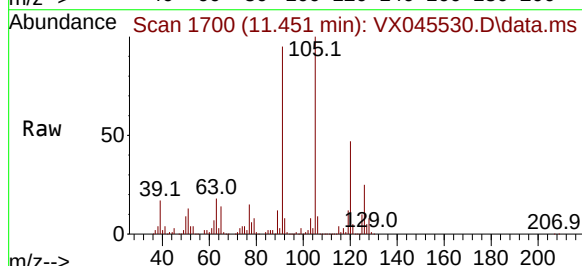
Acq: 01 Apr 2025 19:02

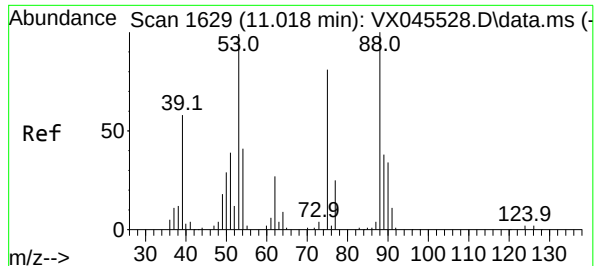
Tgt Ion:105 Resp: 620819

Ion Ratio Lower Upper

105 100

120 46.1 23.0 69.0





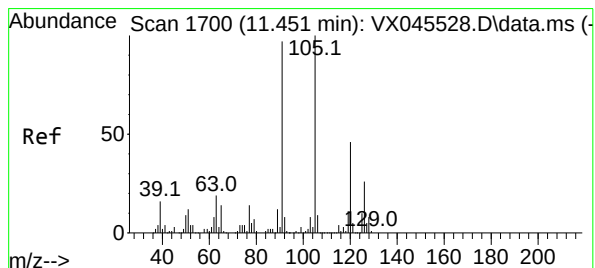
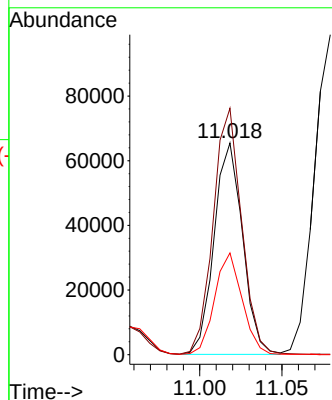
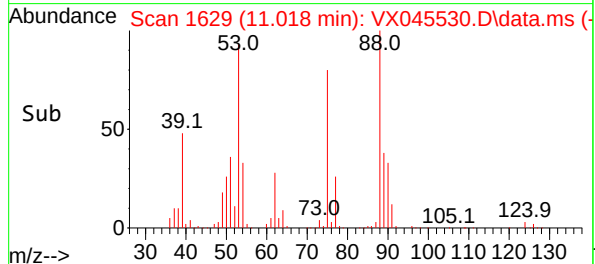
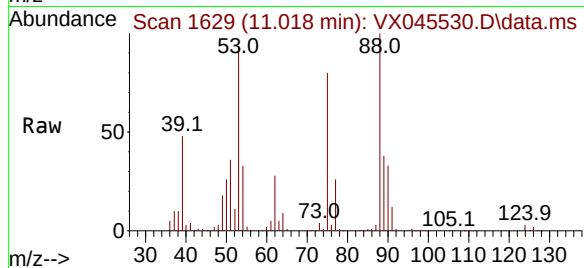
#81
trans-1,4-Dichloro-2-butene
Concen: 178.636 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 7880
Ion Ratio Lower Upper
75 100
53 116.0 101.8 152.6
89 46.8 37.2 55.8

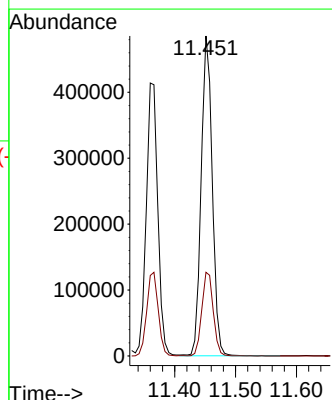
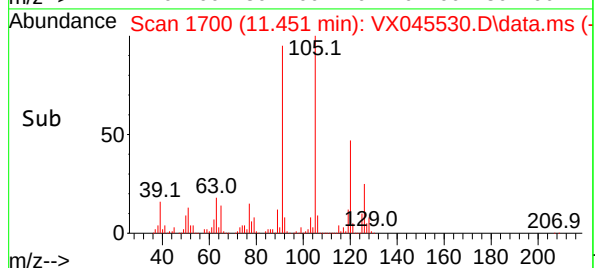
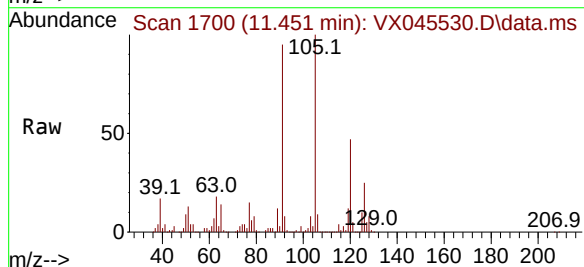
Manual Integrations
APPROVED

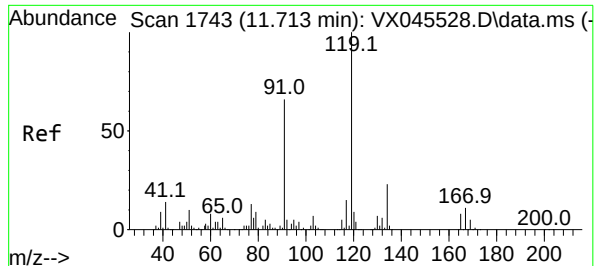
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#82
4-Chlorotoluene
Concen: 152.505 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 91 Resp: 615594
Ion Ratio Lower Upper
91 100
126 26.9 13.3 39.9





#83

tert-Butylbenzene

Concen: 155.783 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion:119 Resp: 627039

Ion Ratio Lower Upper

119 100

91 65.2 32.4 97.2

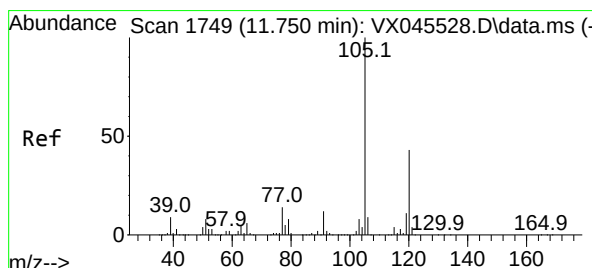
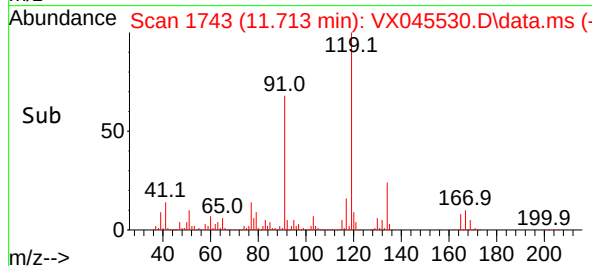
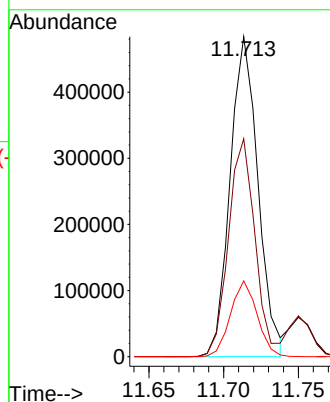
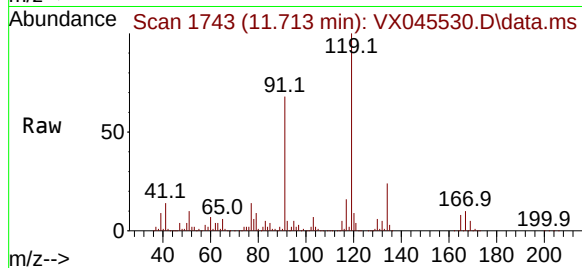
134 22.7 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#84

1,2,4-Trimethylbenzene

Concen: 154.317 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX045530.D

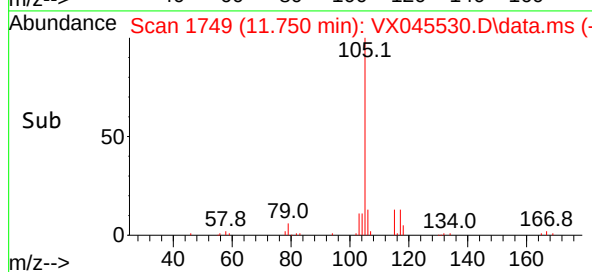
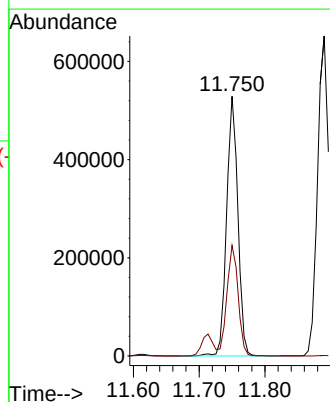
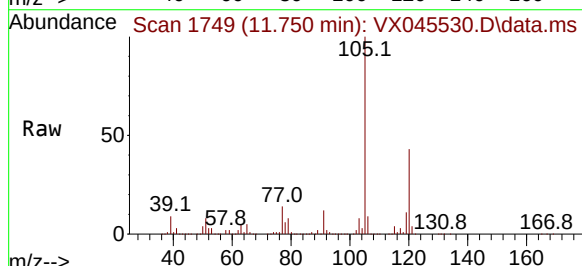
Acq: 01 Apr 2025 19:02

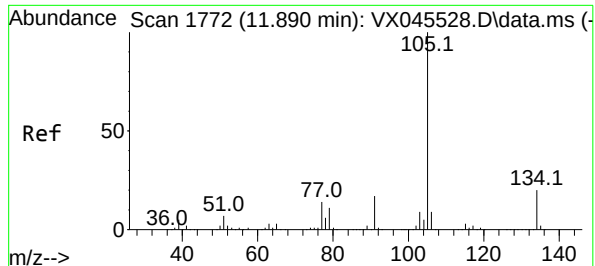
Tgt Ion:105 Resp: 629704

Ion Ratio Lower Upper

105 100

120 42.7 21.4 64.3





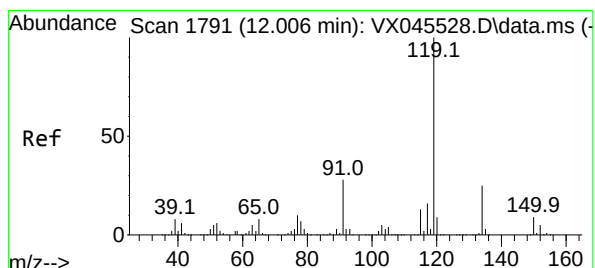
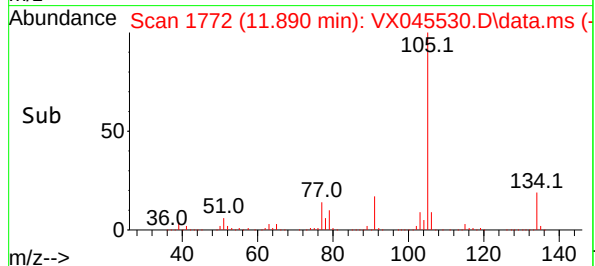
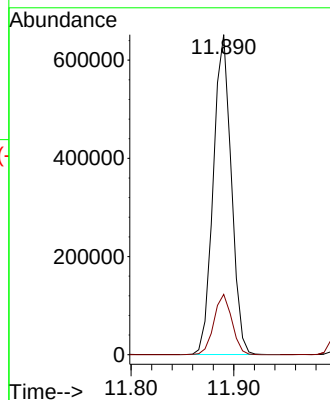
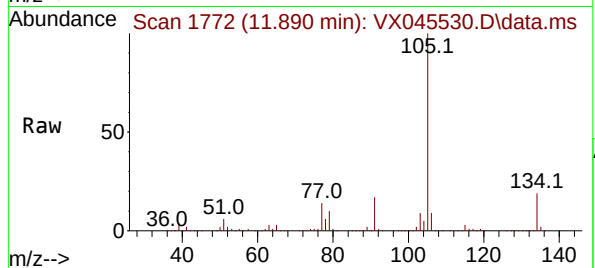
#85
sec-Butylbenzene
Concen: 159.869 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 79035
Ion Ratio Lower Upper
105 100
134 18.9 9.6 28.6

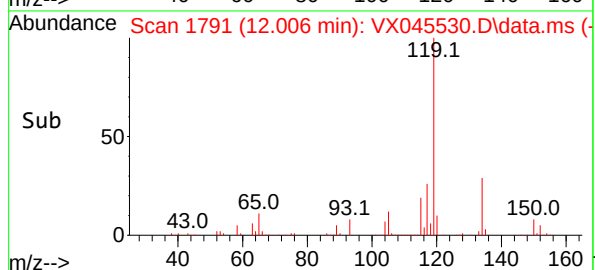
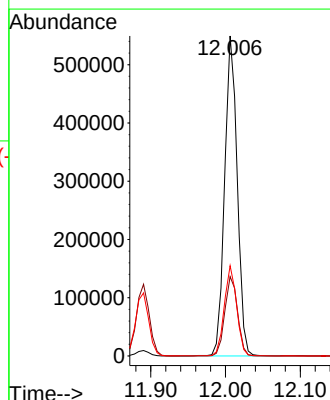
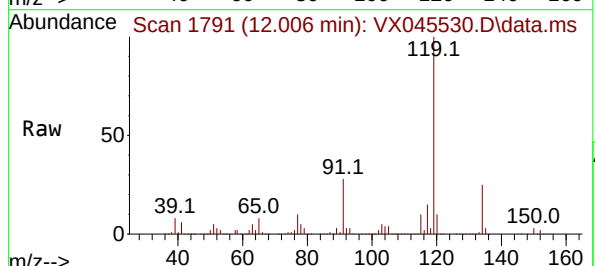
Manual Integrations
APPROVED

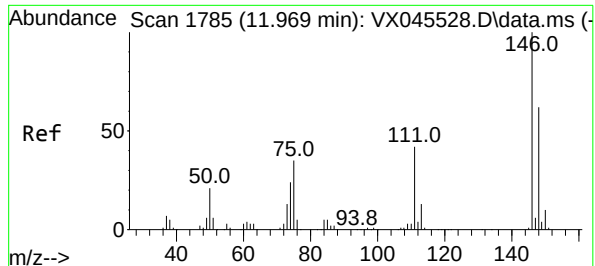
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#86
p-Isopropyltoluene
Concen: 157.397 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion:119 Resp: 641521
Ion Ratio Lower Upper
119 100
134 25.3 12.6 37.8
91 27.6 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 151.885 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 31407

Ion Ratio Lower Upper

146 100

111 44.6 22.2 66.6

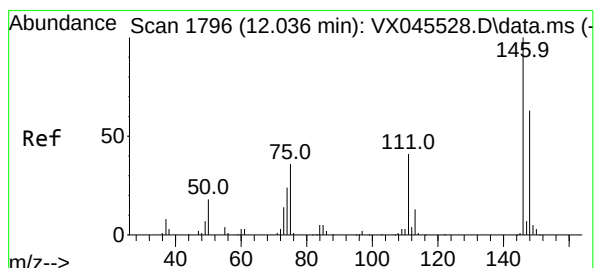
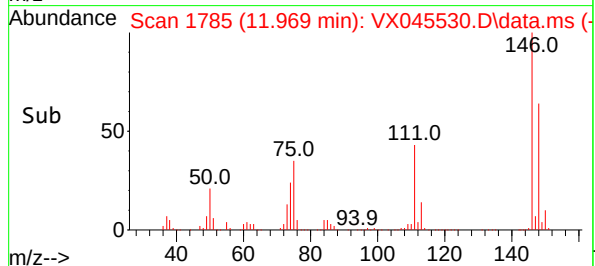
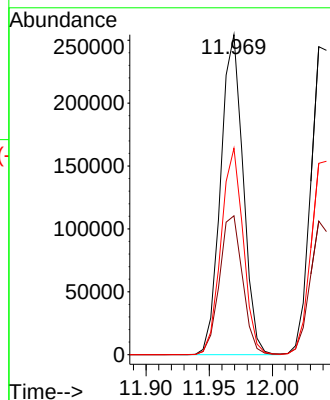
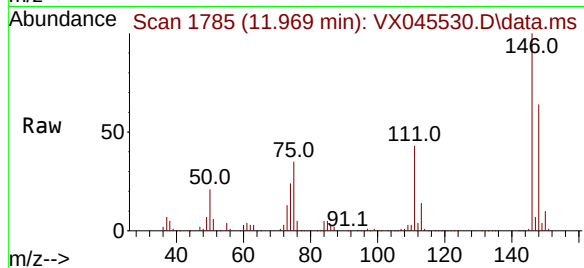
148 63.6 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 149.876 ug/l

RT: 12.037 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

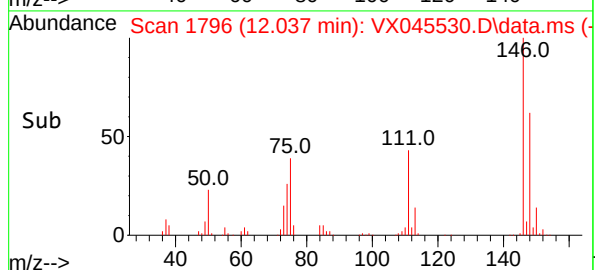
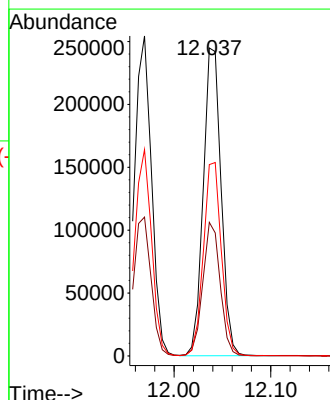
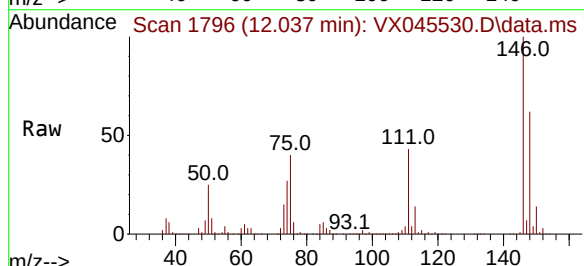
Tgt Ion:146 Resp: 314197

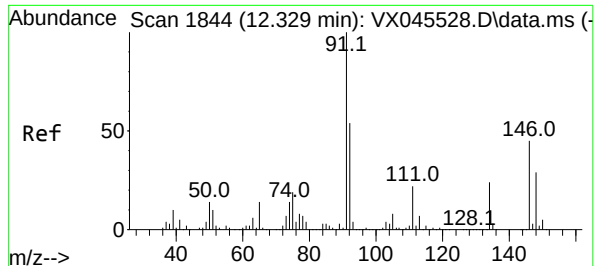
Ion Ratio Lower Upper

146 100

111 42.3 20.9 62.8

148 63.5 31.5 94.5





#89

n-Butylbenzene

Concen: 171.019 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 60444

Ion Ratio Lower Upper

91 100

92 53.9 26.9 80.6

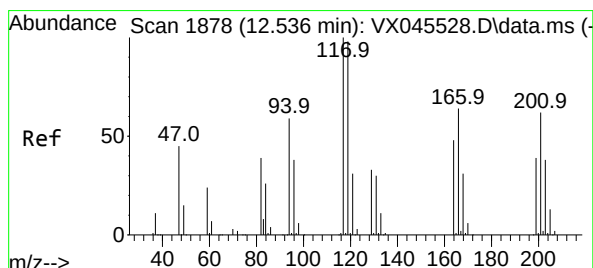
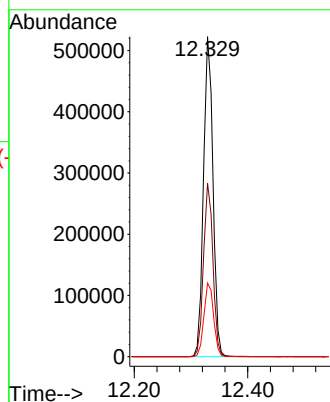
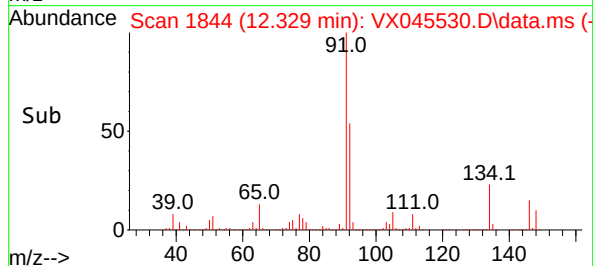
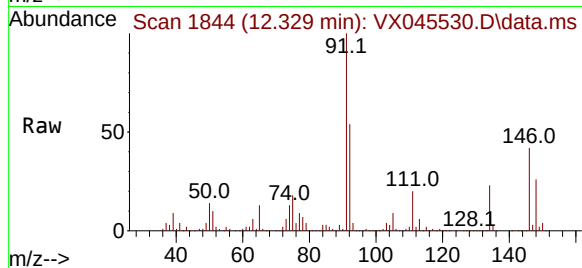
134 23.6 11.9 35.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 173.829 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045530.D

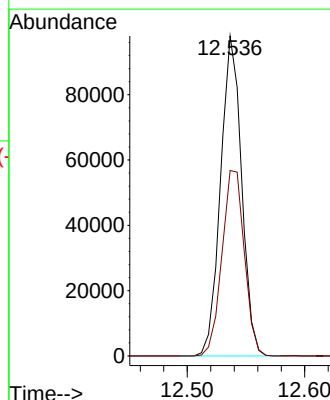
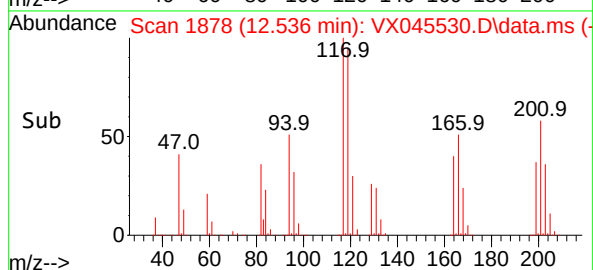
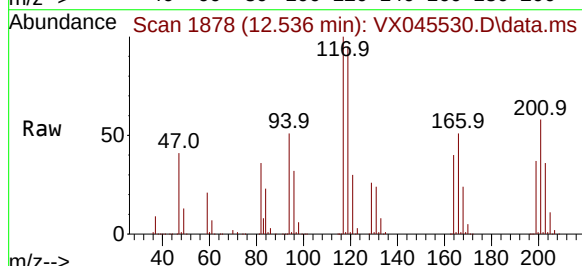
Acq: 01 Apr 2025 19:02

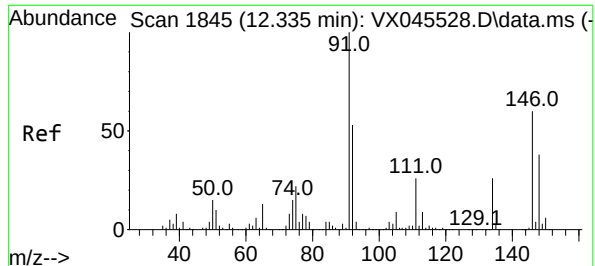
Tgt Ion:117 Resp: 121761

Ion Ratio Lower Upper

117 100

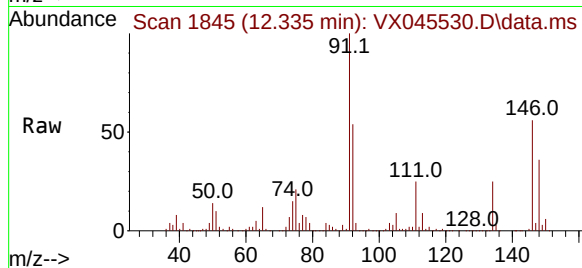
201 61.9 31.2 93.6





#91
1,2-Dichlorobenzene
Concen: 149.342 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

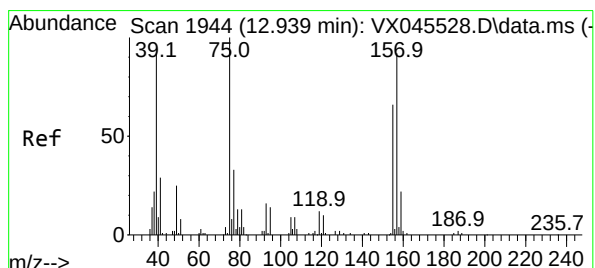
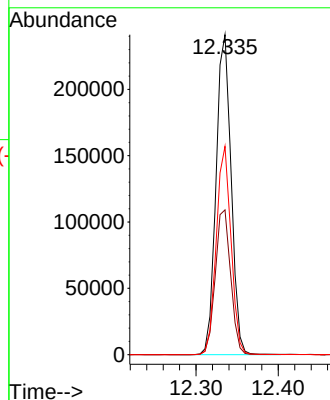
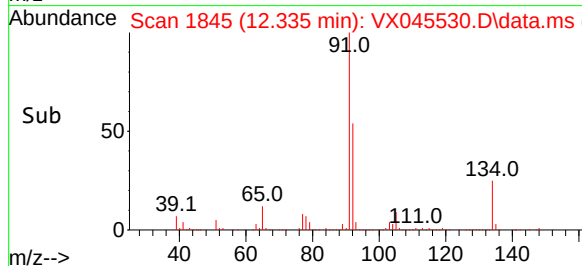
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:146 Resp: 30703
Ion Ratio Lower Upper
146 100
111 46.3 22.9 68.8
148 63.8 31.9 95.5

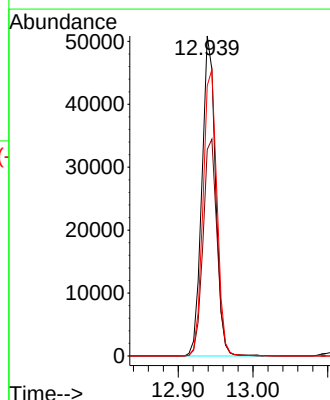
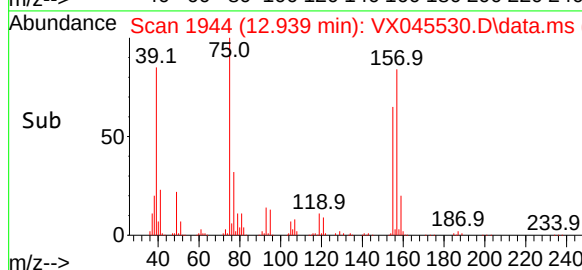
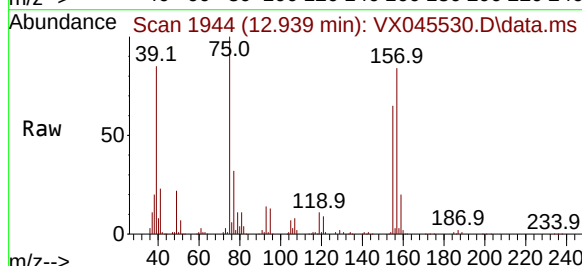
Manual Integrations
APPROVED

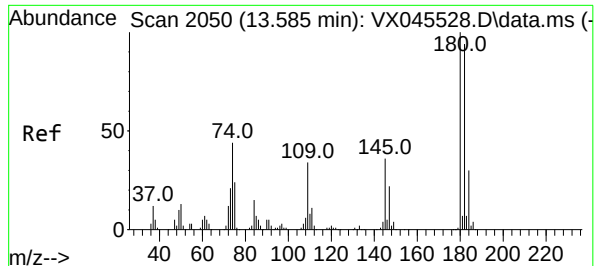
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 178.062 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045530.D
Acq: 01 Apr 2025 19:02

Tgt Ion: 75 Resp: 64317
Ion Ratio Lower Upper
75 100
155 69.7 34.9 104.7
157 91.3 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 174.213 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 19936

Ion Ratio Lower Upper

180 100

182 95.4 47.9 143.6

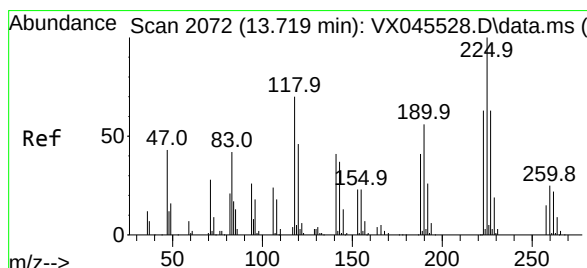
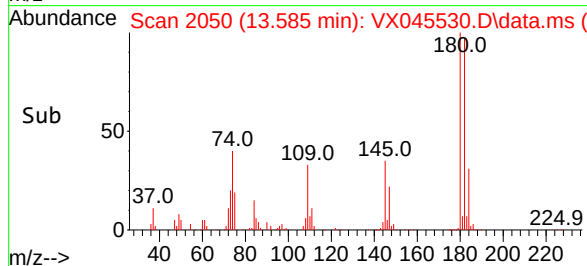
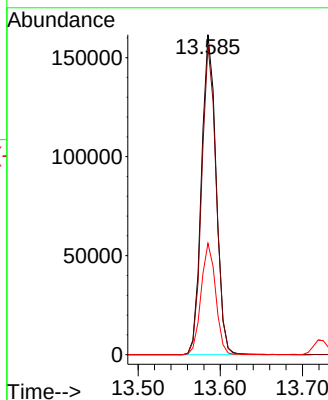
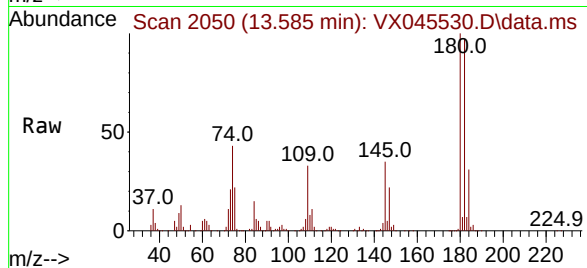
145 34.6 17.9 53.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#94

Hexachlorobutadiene

Concen: 157.752 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.006 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

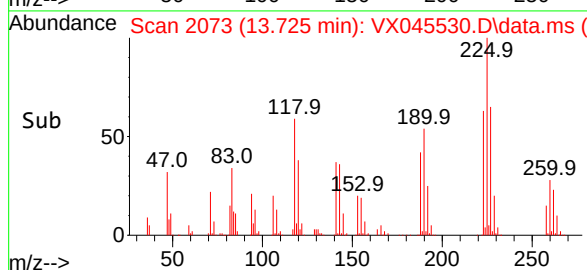
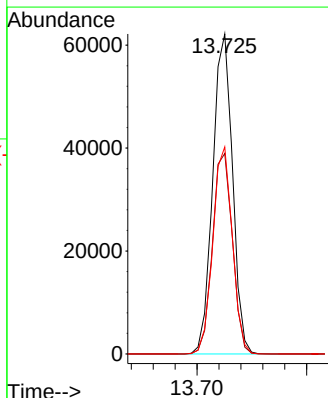
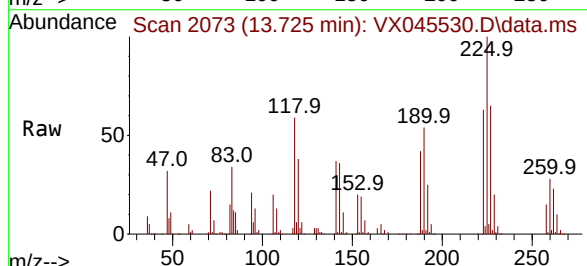
Tgt Ion:225 Resp: 77792

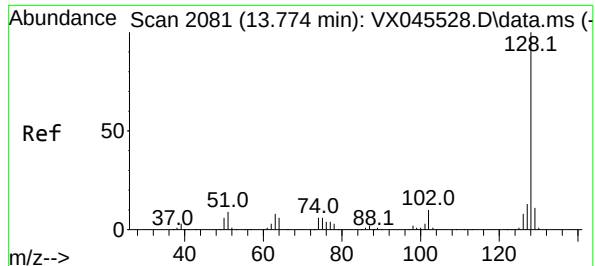
Ion Ratio Lower Upper

225 100

223 63.4 31.1 93.3

227 63.8 32.2 96.6





#95

Naphthalene

Concen: 172.191 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 733300

Ion Ratio Lower Upper

128 100

127 12.8 10.3 15.5

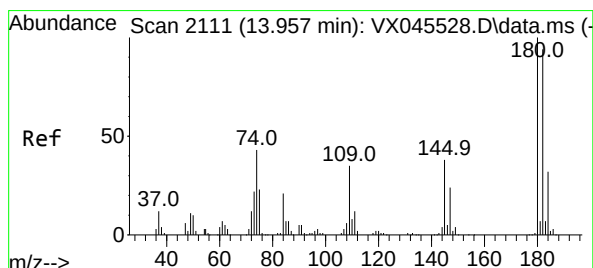
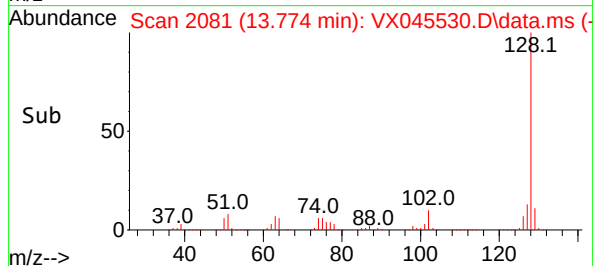
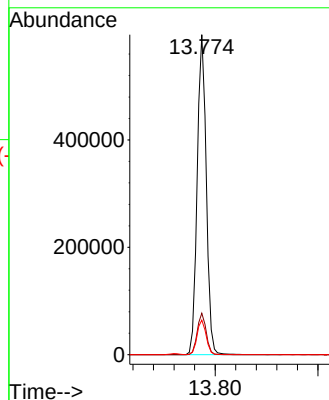
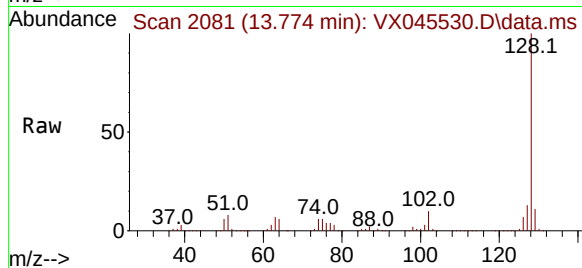
129 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#96

1,2,3-Trichlorobenzene

Concen: 168.562 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX045530.D

Acq: 01 Apr 2025 19:02

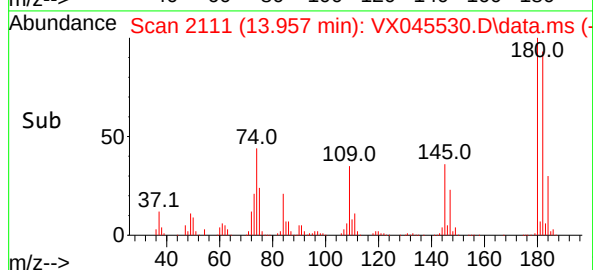
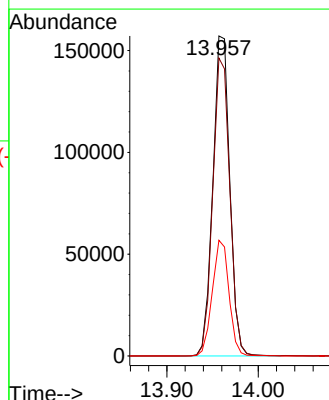
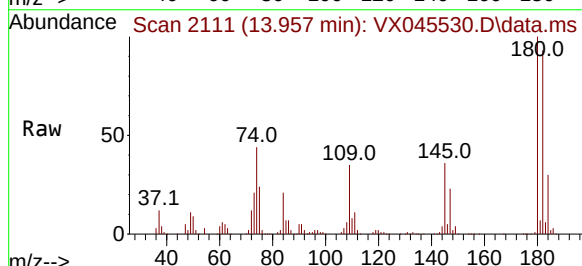
Tgt Ion:180 Resp: 201989

Ion Ratio Lower Upper

180 100

182 94.0 47.3 141.8

145 35.8 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX040225

Quant Time: Apr 02 03:14:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
 Supervised By :Mahesh Dadoda 04/02/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	96972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	174855	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	152417	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	67633	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	89251	50.329	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.660%			
35) Dibromofluoromethane	5.379	113	61107	49.256	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.520%			
50) Toluene-d8	8.647	98	217200	50.160	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.320%			
62) 4-Bromofluorobenzene	11.079	95	80376	50.959	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 101.920%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	76070	52.454	ug/l	97
3) Chloromethane	1.301	50	72033	48.349	ug/l	99
4) Vinyl Chloride	1.374	62	66559	48.816	ug/l	99
5) Bromomethane	1.593	94	30379	46.991	ug/l	99
6) Chloroethane	1.672	64	37317	51.586	ug/l	100
7) Trichlorofluoromethane	1.880	101	102379	50.354	ug/l	96
8) Diethyl Ether	2.130	74	33603	49.228	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	59007	49.528	ug/l	98
10) Methyl Iodide	2.447	142	72261	48.626	ug/l	99
11) Tert butyl alcohol	2.971	59	58774	246.612	ug/l	99
12) 1,1-Dichloroethene	2.313	96	57888	49.726	ug/l	99
13) Acrolein	2.233	56	78156	238.141	ug/l	99
14) Allyl chloride	2.660	41	111636	50.541	ug/l	99
15) Acrylonitrile	3.062	53	186837	248.351	ug/l	100
16) Acetone	2.380	43	176153	241.904	ug/l	99
17) Carbon Disulfide	2.508	76	149677	52.057	ug/l	100
18) Methyl Acetate	2.703	43	81720	48.742	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	207487	50.950	ug/l	100
20) Methylene Chloride	2.782	84	66875	49.055	ug/l	99
21) trans-1,2-Dichloroethene	3.087	96	59229	49.800	ug/l	98
22) Diisopropyl ether	3.757	45	221449	50.895	ug/l	92
23) Vinyl Acetate	3.715	43	1005423	267.449	ug/l	99
24) 1,1-Dichloroethane	3.605	63	122240	49.677	ug/l	99
25) 2-Butanone	4.550	43	271686	254.882	ug/l	97
26) 2,2-Dichloropropane	4.471	77	82704	52.020	ug/l	100
27) cis-1,2-Dichloroethene	4.483	96	71072	49.049	ug/l	98
28) Bromochloromethane	4.891	49	57557	48.403	ug/l	99
29) Tetrahydrofuran	5.001	42	172405	249.473	ug/l	100
30) Chloroform	5.086	83	125621	49.614	ug/l	98
31) Cyclohexane	5.458	56	107862	49.583	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	107830	50.330	ug/l	99
36) 1,1-Dichloropropene	5.684	75	83901	50.088	ug/l	99
37) Ethyl Acetate	4.708	43	105095	49.787	ug/l	98
38) Carbon Tetrachloride	5.672	117	91723	50.667	ug/l	100
39) Methylcyclohexane	7.373	83	102919	50.124	ug/l	99
40) Benzene	6.031	78	251758	49.212	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
 Data File : VX045532.D
 Acq On : 01 Apr 2025 19:48
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:14:42 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M

Quant Title : SW846 8260

QLast Update : Wed Apr 02 03:11:43 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	59140	53.098	ug/l	99
42) 1,2-Dichloroethane	6.080	62	103270	48.875	ug/l	100
43) Isopropyl Acetate	6.336	43	164894	51.539	ug/l	100
44) Trichloroethene	7.123	130	57931	47.643	ug/l	92
45) 1,2-Dichloropropane	7.421	63	63210	49.521	ug/l	95
46) Dibromomethane	7.574	93	47564	48.542	ug/l	97
47) Bromodichloromethane	7.818	83	96418	49.273	ug/l	96
48) Methyl methacrylate	7.690	41	85084	51.507	ug/l	99
49) 1,4-Dioxane	7.659	88	28552	955.327	ug/l	99
51) 4-Methyl-2-Pentanone	8.568	43	540822	254.994	ug/l	100
52) Toluene	8.714	92	151664	48.994	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	87744	46.783	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	99074	53.878	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	60452	49.007	ug/l	97
56) Ethyl methacrylate	9.116	69	102525	53.705	ug/l	100
57) 1,3-Dichloropropane	9.305	76	107121	49.869	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	251285	260.201	ug/l	99
59) 2-Hexanone	9.427	43	395336	251.710	ug/l	100
60) Dibromochloromethane	9.519	129	68562	50.983	ug/l	99
61) 1,2-Dibromoethane	9.604	107	63301	50.693	ug/l	100
64) Tetrachloroethene	9.269	164	50834	47.239	ug/l	99
65) Chlorobenzene	10.073	112	163518	50.207	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	57096	50.495	ug/l	99
67) Ethyl Benzene	10.189	91	300747	51.558	ug/l	100
68) m/p-Xylenes	10.299	106	217943	102.728	ug/l	99
69) o-Xylene	10.640	106	107947	51.650	ug/l	100
70) Styrene	10.653	104	181524	52.624	ug/l	100
71) Bromoform	10.799	173	44489	52.694	ug/l #	98
73) Isopropylbenzene	10.957	105	286010	52.794	ug/l	100
74) N-amyl acetate	10.842	43	140941	54.387	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	92505	48.608	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	82060m	49.741	ug/l	
77) Bromobenzene	11.195	156	63244	50.525	ug/l	98
78) n-propylbenzene	11.299	91	336753	53.967	ug/l	100
79) 2-Chlorotoluene	11.360	91	203677	51.057	ug/l	99
80) 1,3,5-Trimethylbenzene	11.445	105	239822	53.534	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	25511	52.482	ug/l	98
82) 4-Chlorotoluene	11.451	91	233159	52.422	ug/l	100
83) tert-Butylbenzene	11.713	119	236276	53.274	ug/l	100
84) 1,2,4-Trimethylbenzene	11.750	105	238257	52.990	ug/l	100
85) sec-Butylbenzene	11.890	105	293633	53.903	ug/l	100
86) p-Isopropyltoluene	12.006	119	244031	54.337	ug/l	99
87) 1,3-Dichlorobenzene	11.963	146	115113	50.521	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	113458	49.117	ug/l	97
89) n-Butylbenzene	12.329	91	214931	55.189	ug/l	99
90) Hexachloroethane	12.536	117	41729	54.066	ug/l	98
91) 1,2-Dichlorobenzene	12.329	146	113126	49.938	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	21184	53.226	ug/l	100
93) 1,2,4-Trichlorobenzene	13.585	180	65488	51.935	ug/l	98
94) Hexachlorobutadiene	13.725	225	27147	49.961	ug/l	99
95) Naphthalene	13.774	128	247600	52.765	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	66542	50.396	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

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

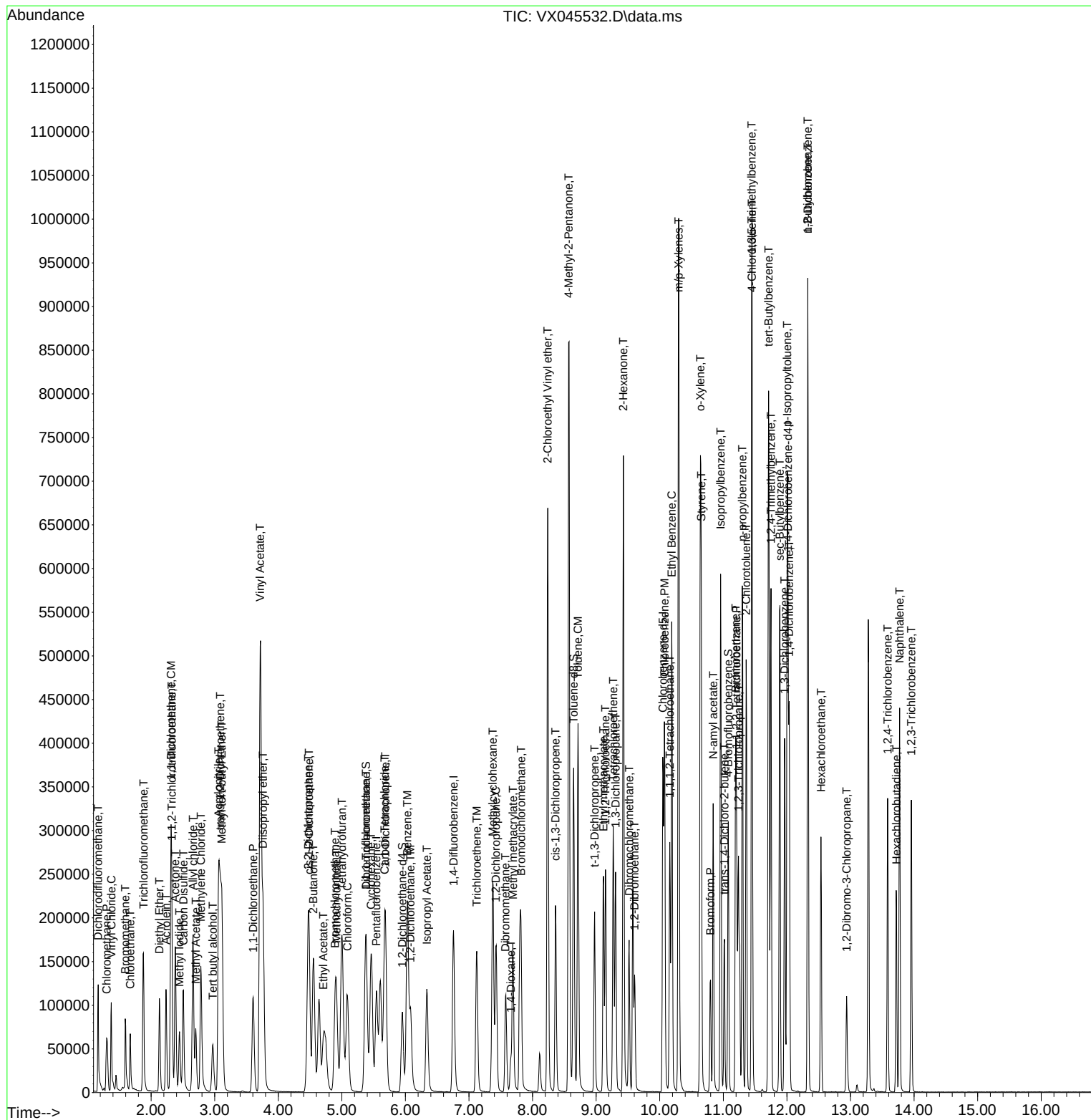
```
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\  
Data File : VX045532.D  
Acq On    : 01 Apr 2025   19:48  
Operator  : JC/MD  
Sample    : VSTDICV050  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 10   Sample Multiplier: 1
```

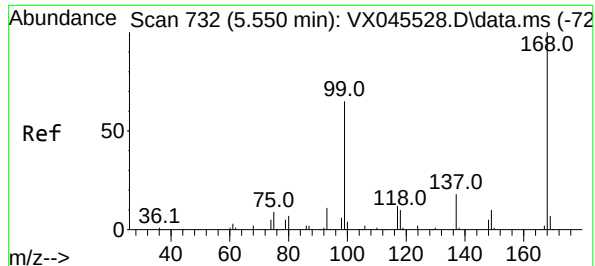
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Manual Integrations APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration





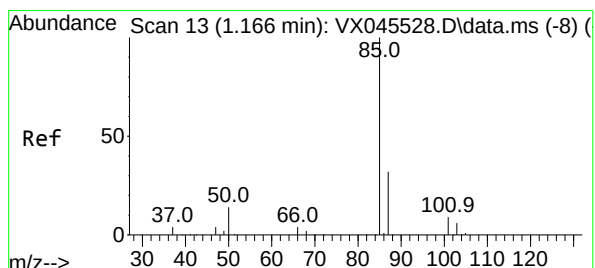
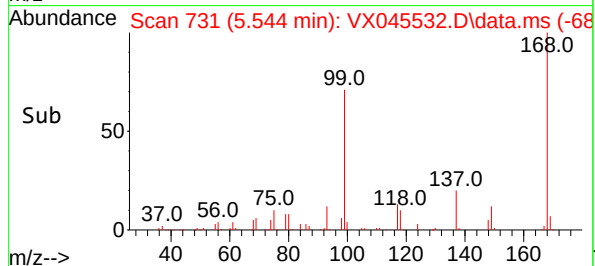
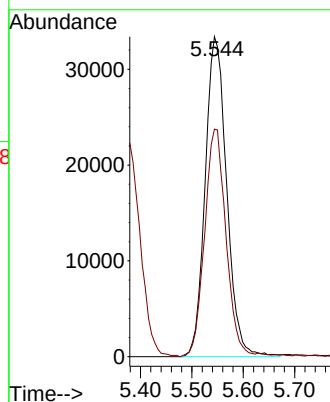
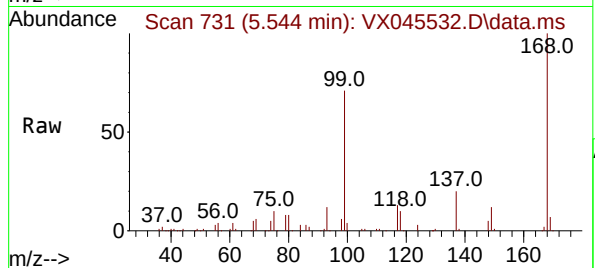
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion:168 Resp: 96972
Ion Ratio Lower Upper
168 100
99 71.1 52.3 78.5

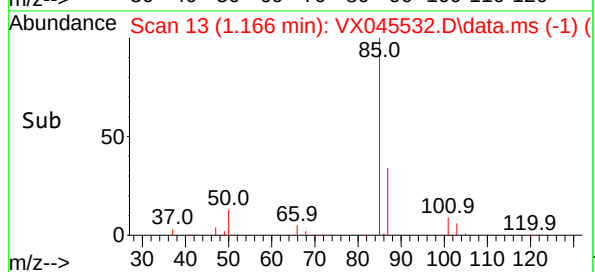
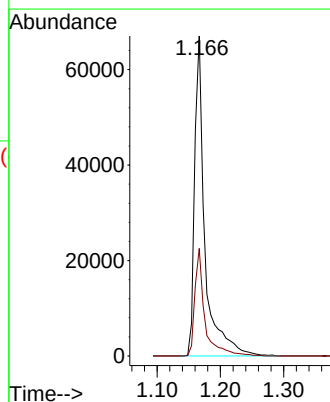
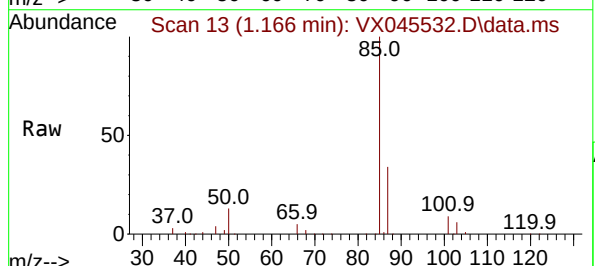
Manual Integrations
APPROVED

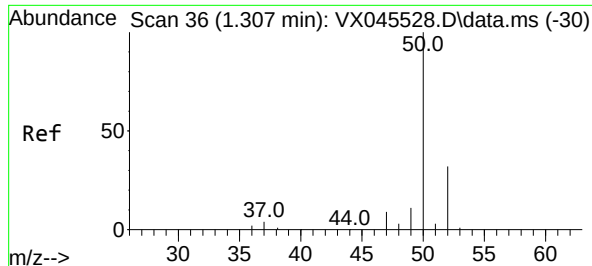
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#2
Dichlorodifluoromethane
Concen: 52.454 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 85 Resp: 76070
Ion Ratio Lower Upper
85 100
87 33.6 16.1 48.2





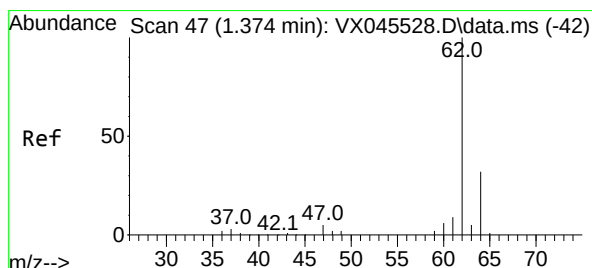
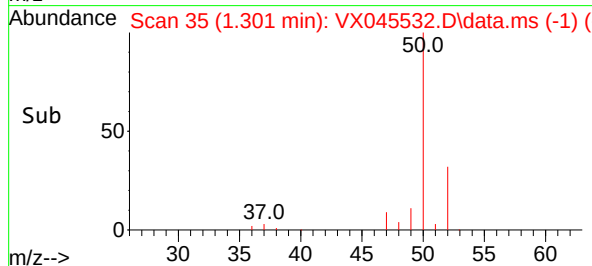
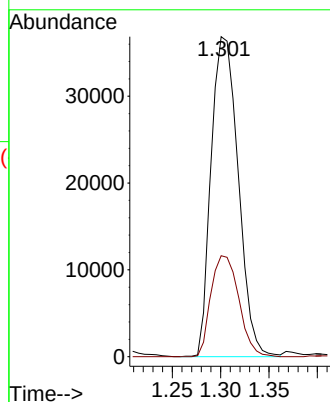
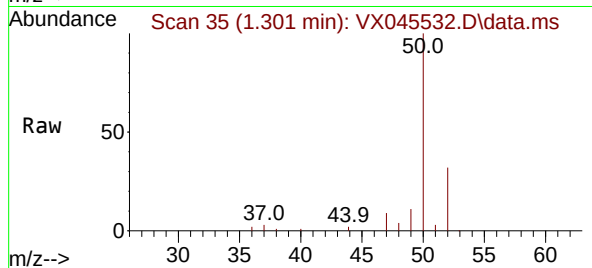
#3
Chloromethane
Concen: 48.349 ug/l
RT: 1.301 min Scan# 35
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion: 50 Resp: 72033
Ion Ratio Lower Upper
50 100
52 31.6 25.9 38.9

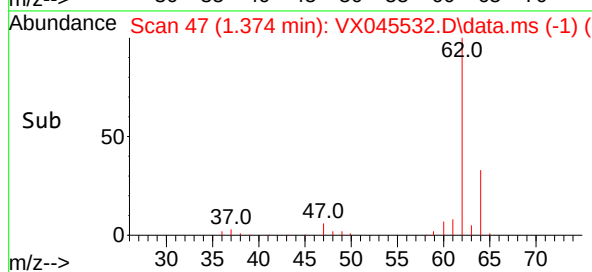
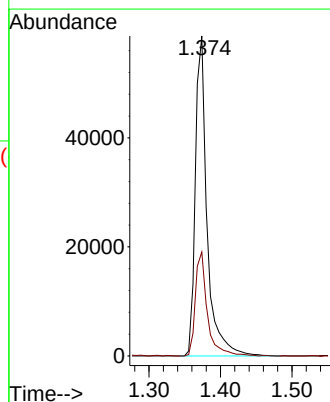
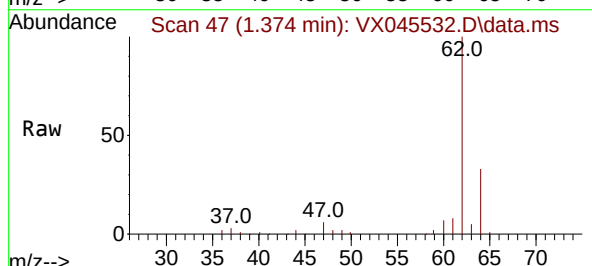
Manual Integrations
APPROVED

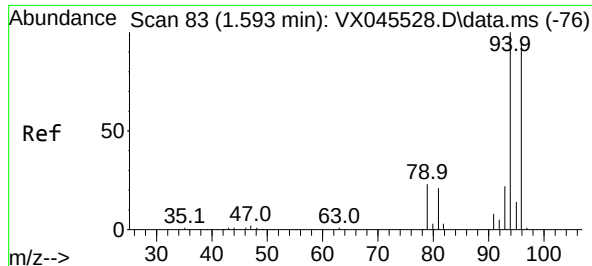
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#4
Vinyl Chloride
Concen: 48.816 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 62 Resp: 66559
Ion Ratio Lower Upper
62 100
64 32.5 25.5 38.3





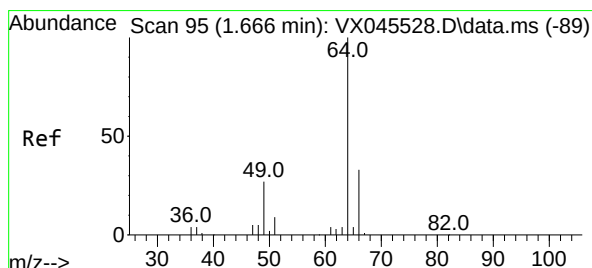
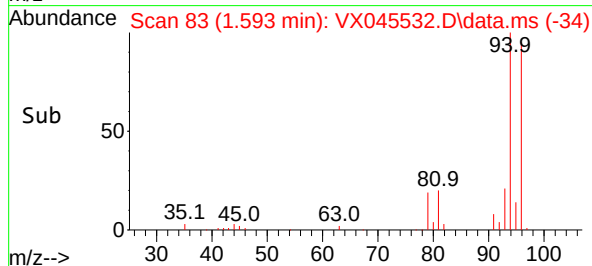
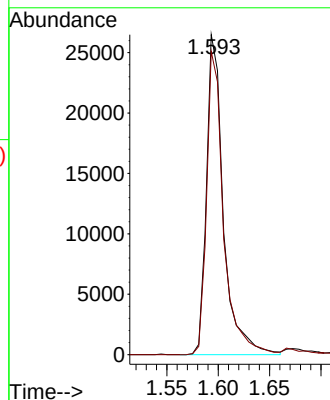
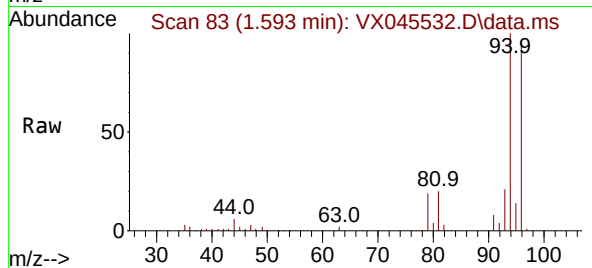
#5
Bromomethane
Concen: 46.991 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICV VX040225

Tgt Ion: 94 Resp: 30379
Ion Ratio Lower Upper
94 100
96 94.7 74.8 112.2

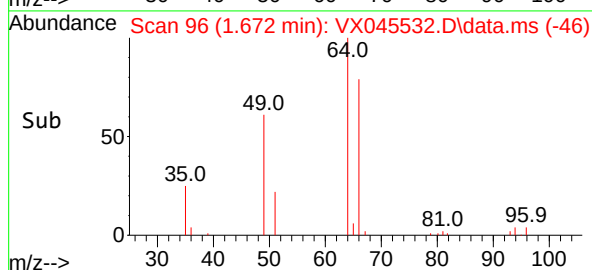
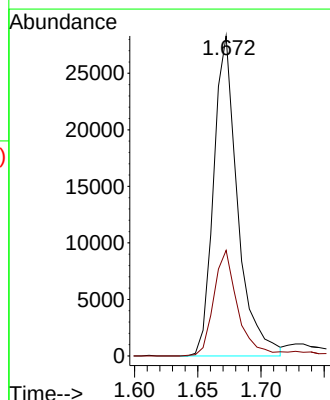
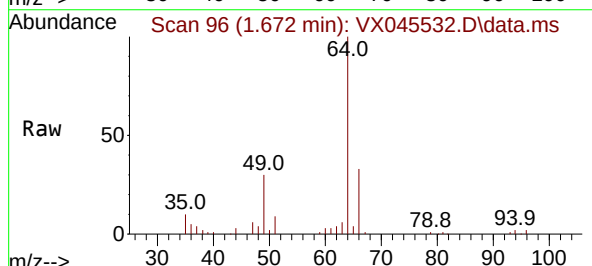
Manual Integrations
APPROVED

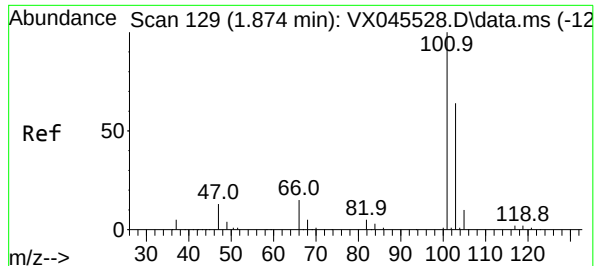
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#6
Chloroethane
Concen: 51.586 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 64 Resp: 37317
Ion Ratio Lower Upper
64 100
66 33.0 26.3 39.5





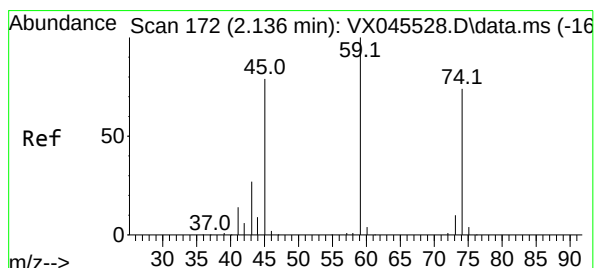
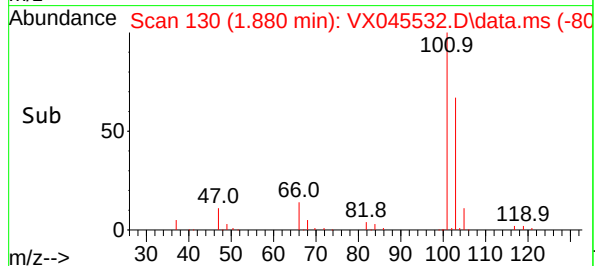
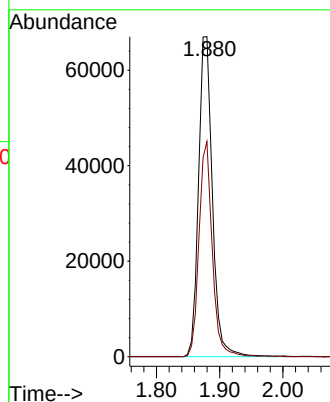
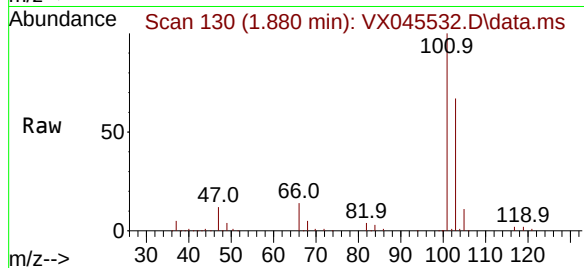
#7
Trichlorofluoromethane
Concen: 50.354 ug/l
RT: 1.880 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion:101 Resp: 102379
Ion Ratio Lower Upper
101 100
103 67.2 51.1 76.7

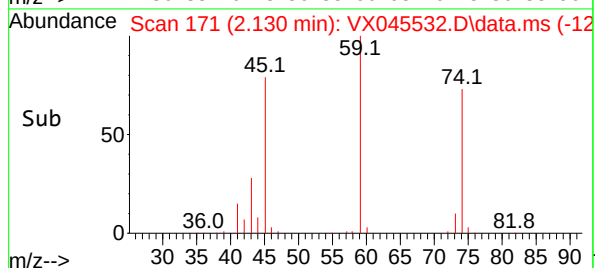
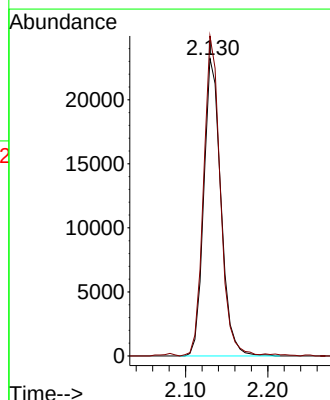
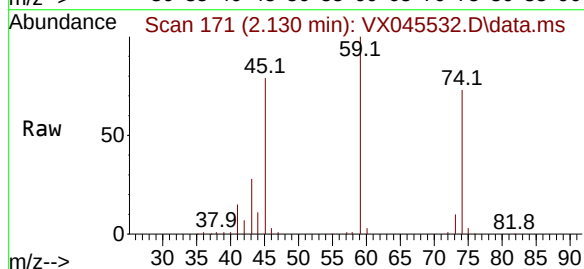
Manual Integrations
APPROVED

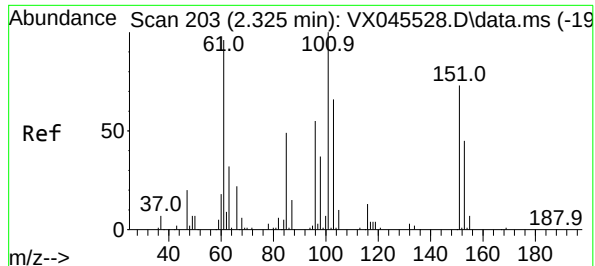
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#8
Diethyl Ether
Concen: 49.228 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 74 Resp: 33603
Ion Ratio Lower Upper
74 100
45 105.2 53.0 159.1





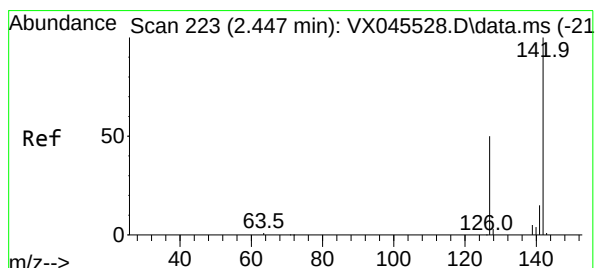
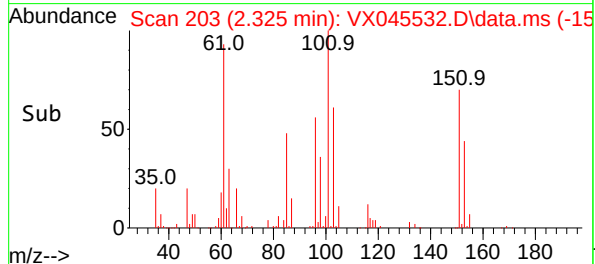
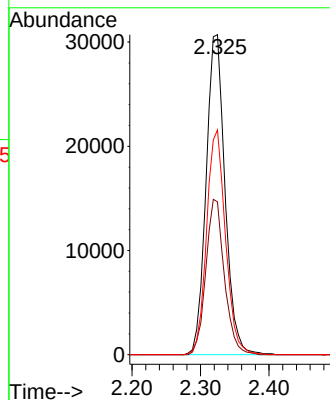
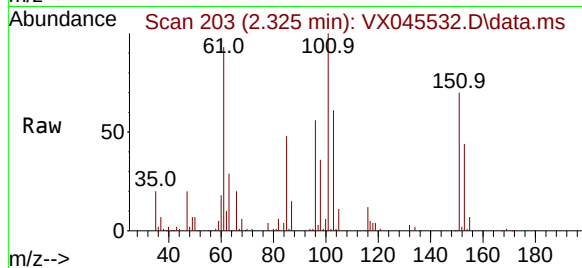
#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.528 ug/l
RT: 2.325 min Scan# 203
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVX040225

Tgt Ion:101 Resp: 5900
Ion Ratio Lower Upper
101 100
85 47.5 38.9 58.3
151 70.1 57.5 86.3

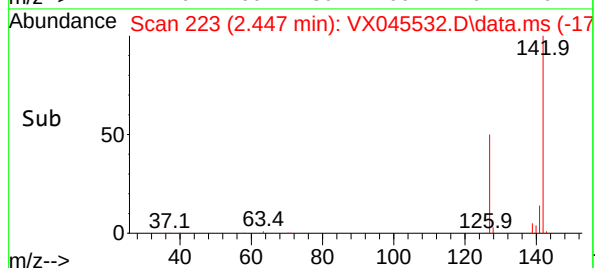
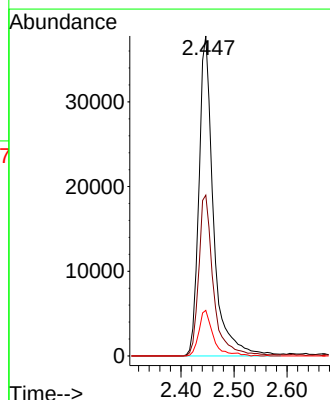
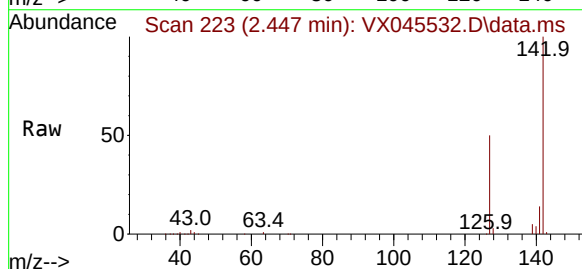
Manual Integrations
APPROVED

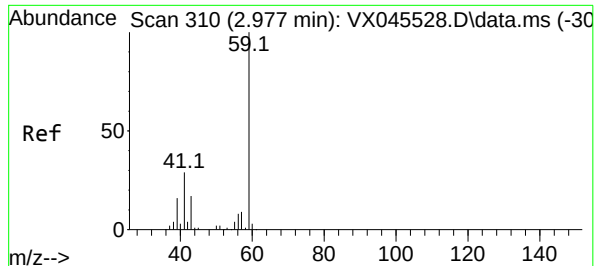
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#10
Methyl Iodide
Concen: 48.626 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:142 Resp: 72261
Ion Ratio Lower Upper
142 100
127 50.6 40.2 60.4
141 14.1 11.7 17.5





#11

Tert butyl alcohol

Concen: 246.612 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 59 Resp: 58774

Ion Ratio Lower Upper

59 100

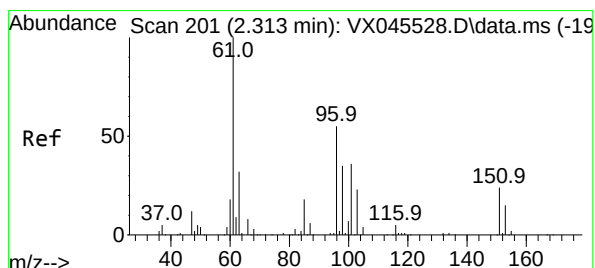
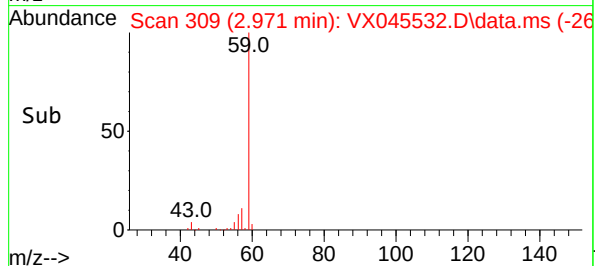
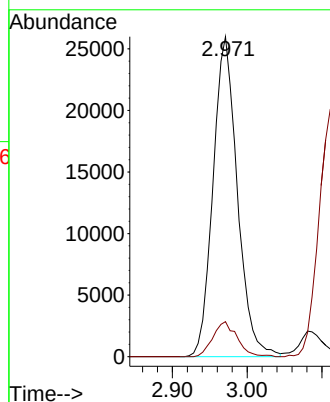
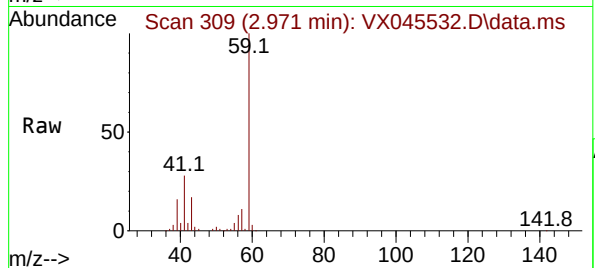
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#12

1,1-Dichloroethene

Concen: 49.726 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

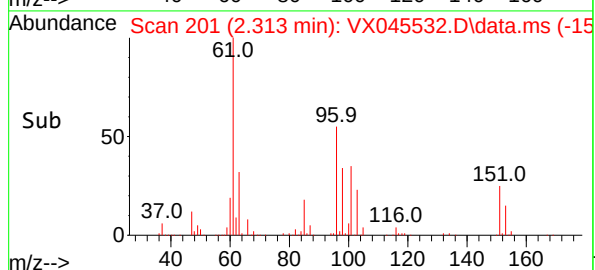
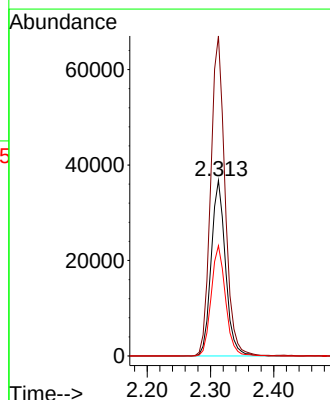
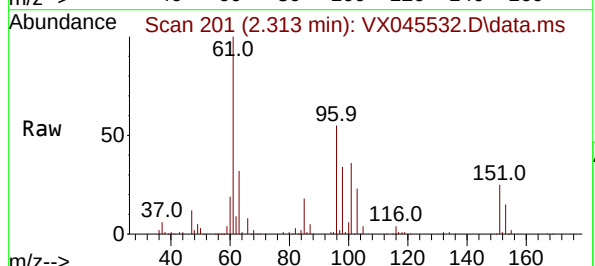
Tgt Ion: 96 Resp: 57888

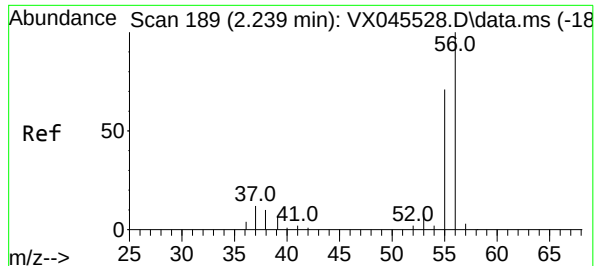
Ion Ratio Lower Upper

96 100

61 182.3 145.7 218.5

98 62.8 51.6 77.4





#13

Acrolein

Concen: 238.141 ug/l

RT: 2.233 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVX040225

Tgt Ion: 56 Resp: 78156

Ion Ratio Lower Upper

56 100

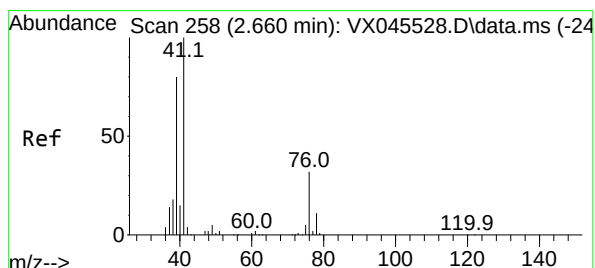
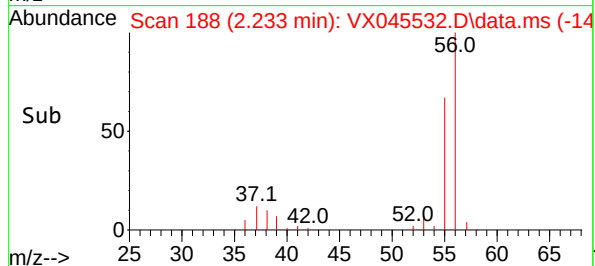
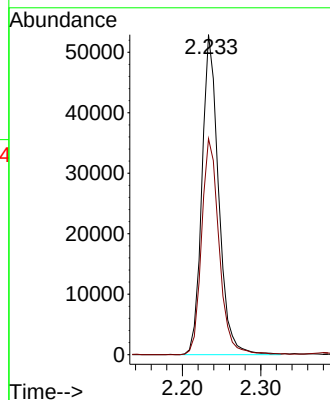
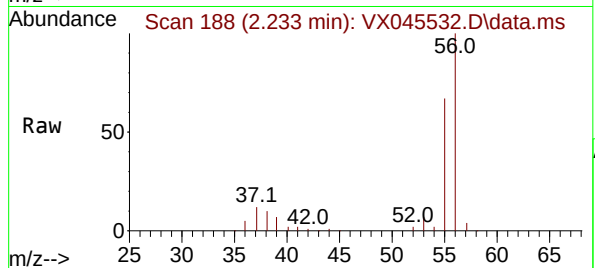
55 71.0 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#14

Allyl chloride

Concen: 50.541 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

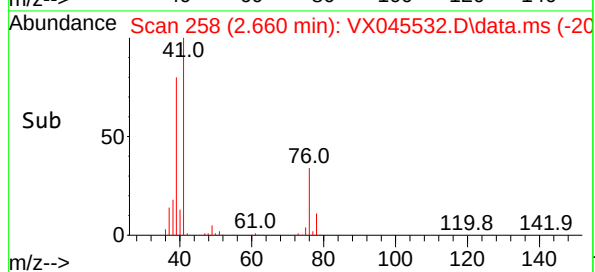
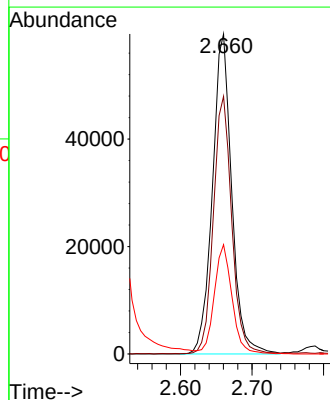
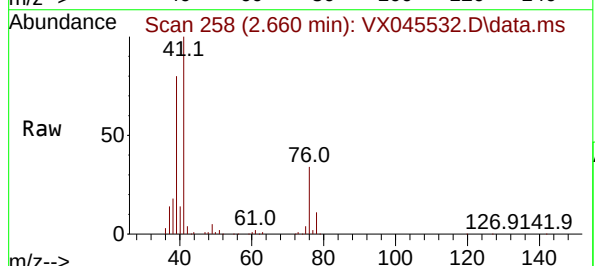
Tgt Ion: 41 Resp: 111636

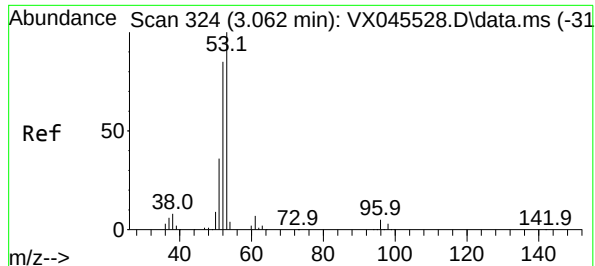
Ion Ratio Lower Upper

41 100

39 76.2 60.2 90.2

76 31.6 24.6 36.8





#15

Acrylonitrile

Concen: 248.351 ug/l

RT: 3.062 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 53 Resp: 18683

Ion Ratio Lower Upper

53 100

52 84.1 67.4 101.2

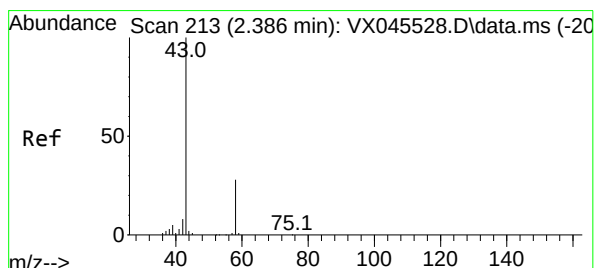
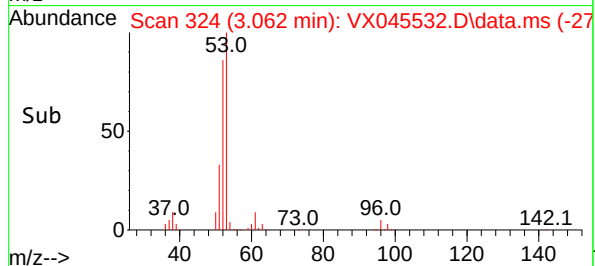
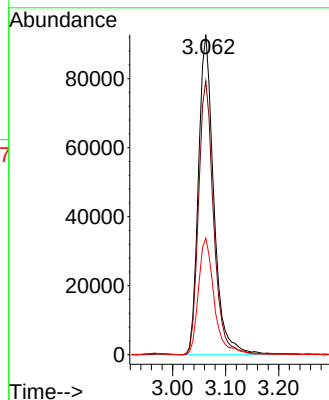
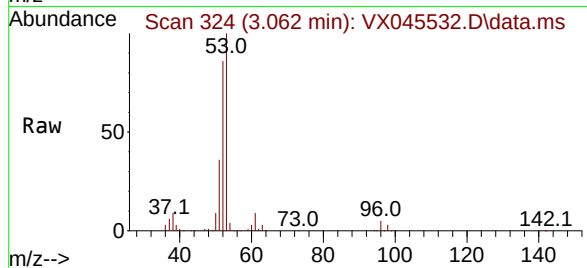
51 37.6 29.9 44.9

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#16

Acetone

Concen: 241.904 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.006 min

Lab File: VX045532.D

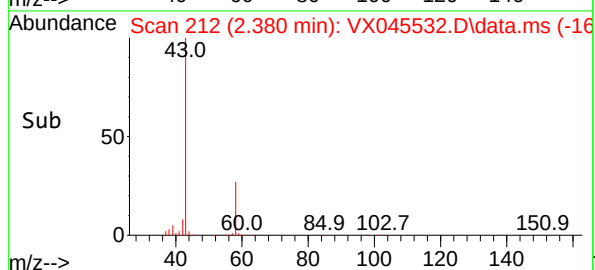
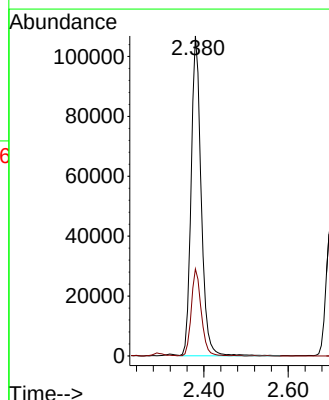
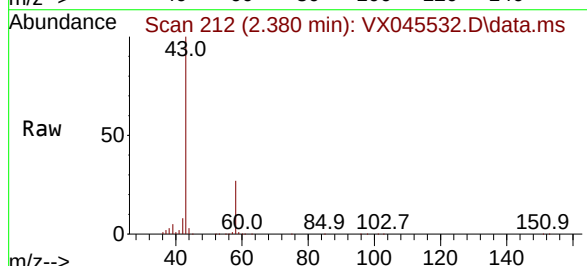
Acq: 01 Apr 2025 19:48

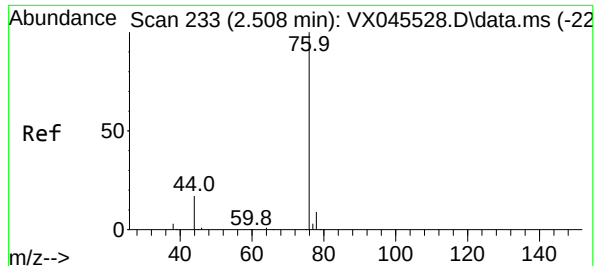
Tgt Ion: 43 Resp: 176153

Ion Ratio Lower Upper

43 100

58 27.2 22.3 33.5





#17

Carbon Disulfide

Concen: 52.057 ug/l

RT: 2.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 76 Resp: 14967

Ion Ratio Lower Upper

76 100

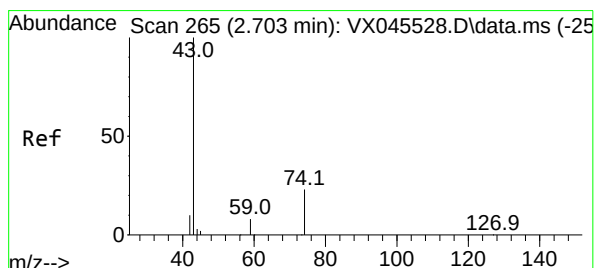
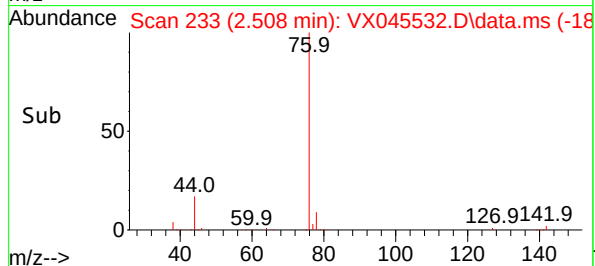
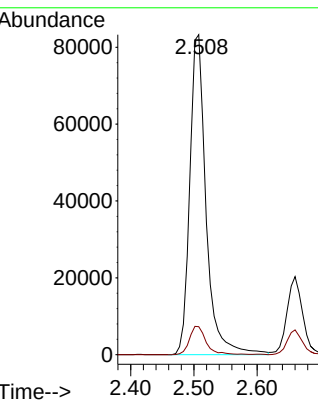
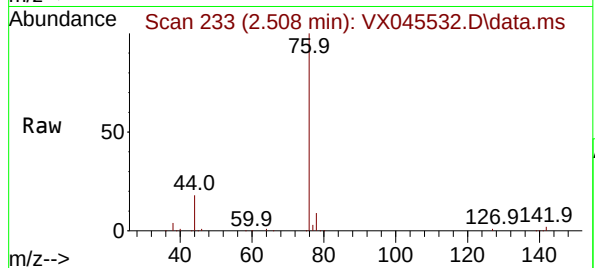
78 8.7 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#18

Methyl Acetate

Concen: 48.742 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045532.D

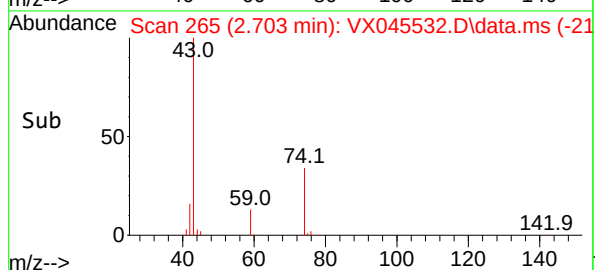
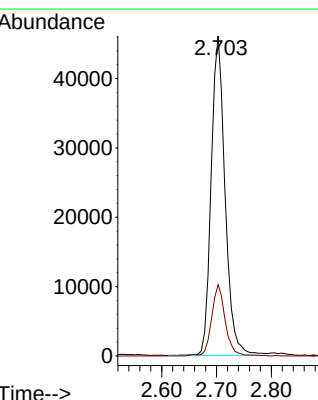
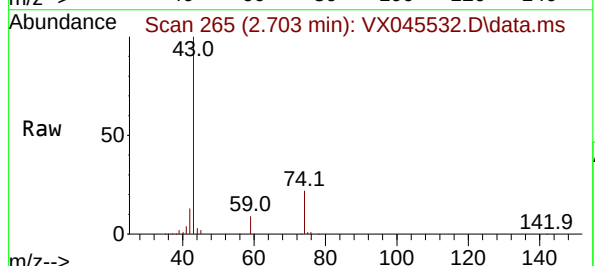
Acq: 01 Apr 2025 19:48

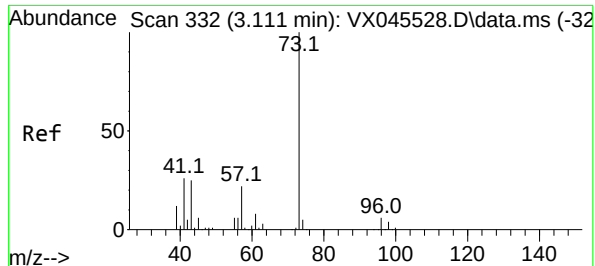
Tgt Ion: 43 Resp: 81720

Ion Ratio Lower Upper

43 100

74 21.8 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 50.950 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 73 Resp: 20748

Ion Ratio Lower Upper

73 100

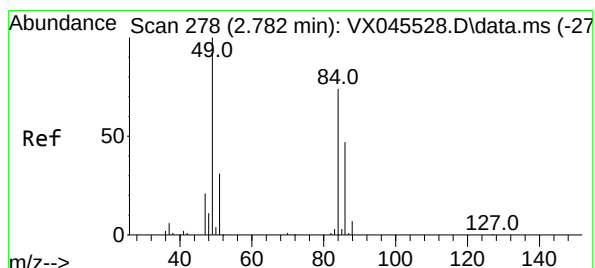
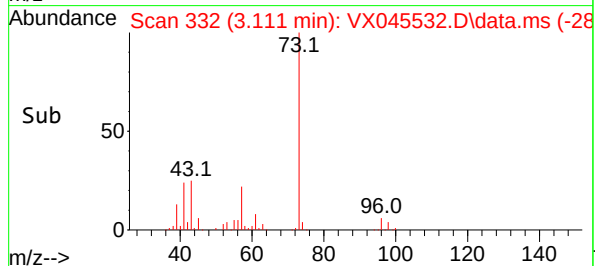
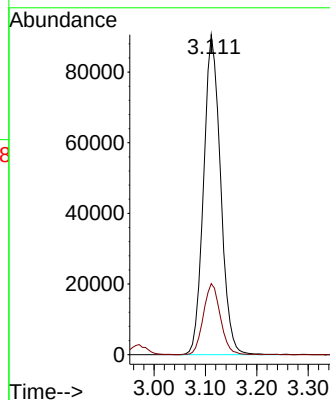
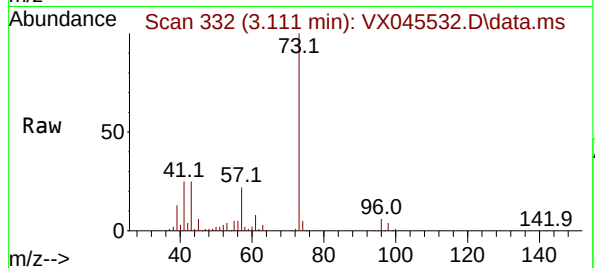
57 22.2 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#20

Methylene Chloride

Concen: 49.055 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Tgt Ion: 84 Resp: 66875

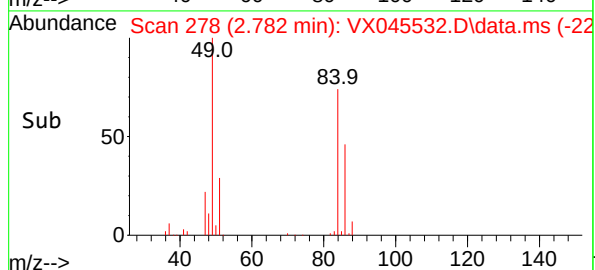
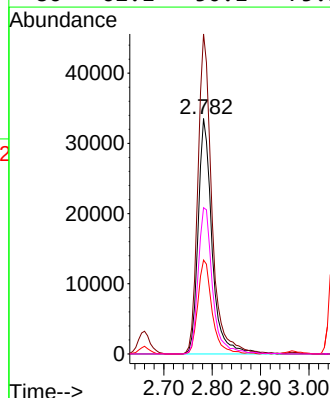
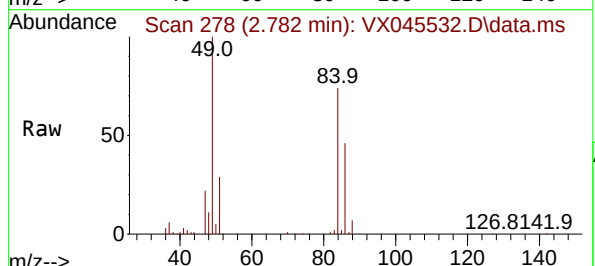
Ion Ratio Lower Upper

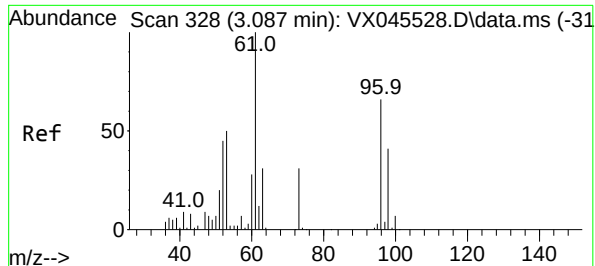
84 100

49 135.9 107.5 161.3

51 39.9 33.0 49.6

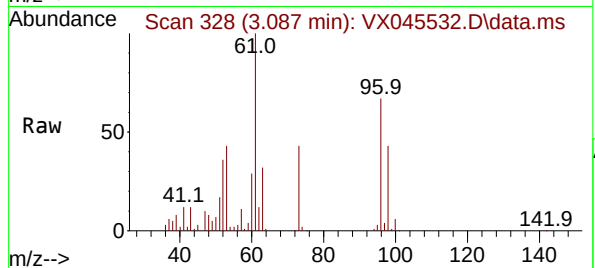
86 62.1 50.1 75.1





#21
trans-1,2-Dichloroethene
Concen: 49.800 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

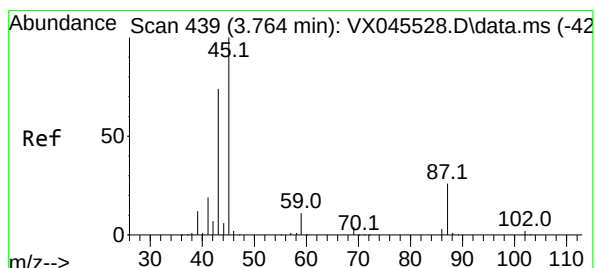
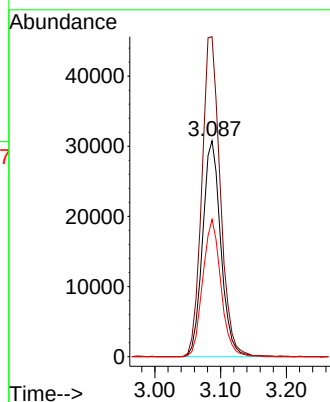
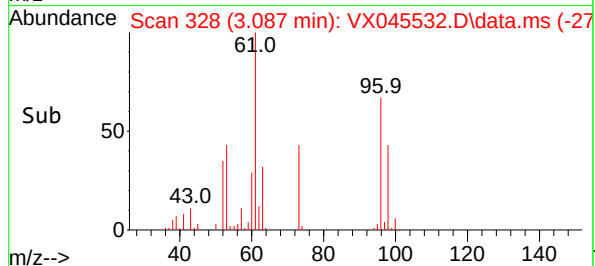
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



Tgt Ion: 96 Resp: 59229
Ion Ratio Lower Upper
96 100
61 148.2 121.0 181.6
98 63.6 49.7 74.5

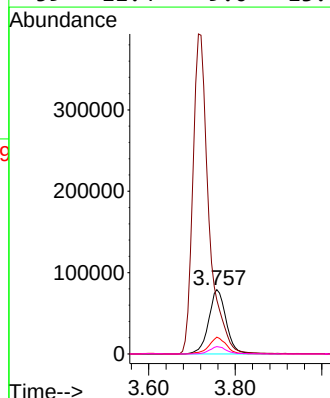
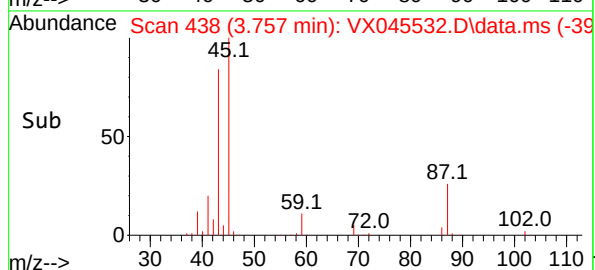
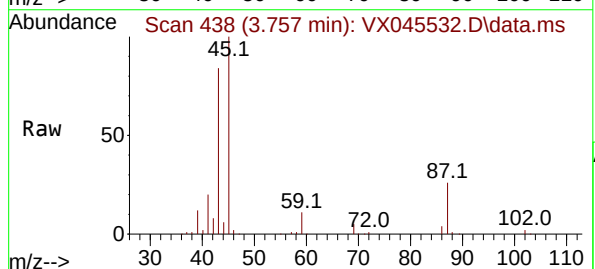
Manual Integrations
APPROVED

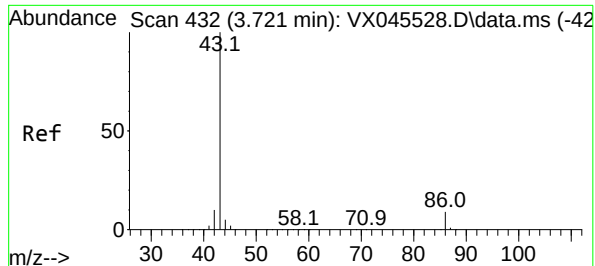
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#22
Diisopropyl ether
Concen: 50.895 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 45 Resp: 221449
Ion Ratio Lower Upper
45 100
43 83.3 59.3 88.9
87 26.0 20.4 30.6
59 11.4 9.0 13.6





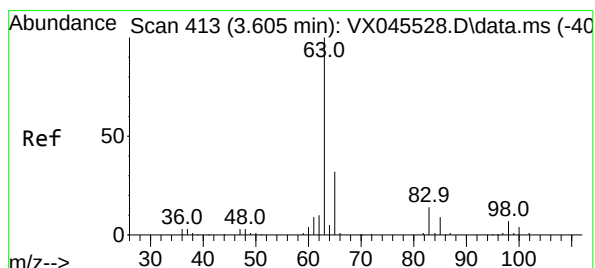
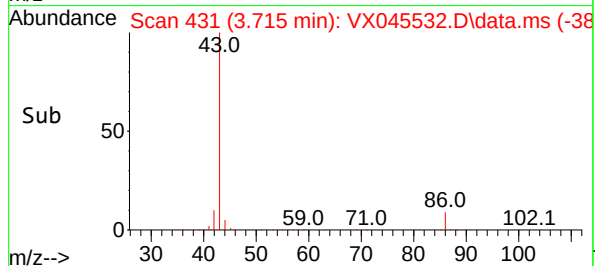
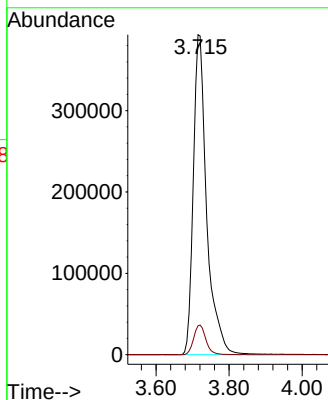
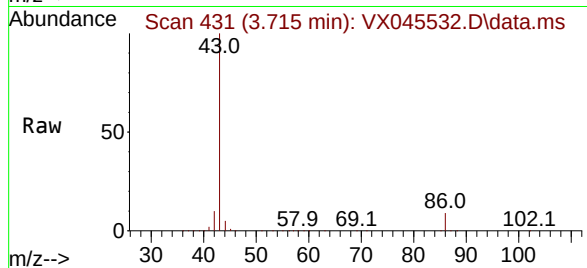
#23
Vinyl Acetate
Concen: 267.449 ug/l
RT: 3.715 min Scan# 411
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion: 43 Resp: 100542
Ion Ratio Lower Upper
43 100
86 9.1 7.5 11.3

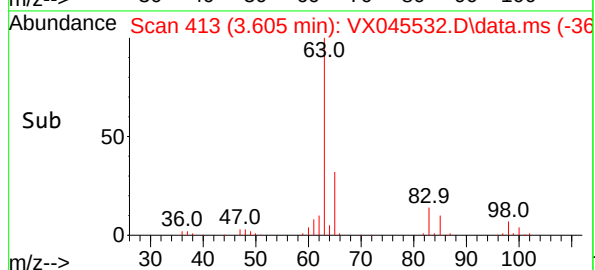
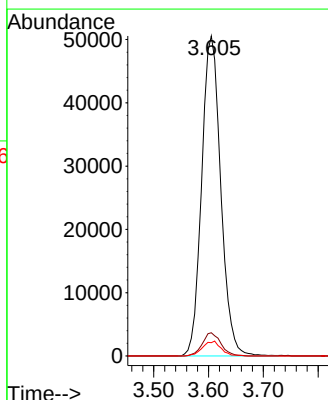
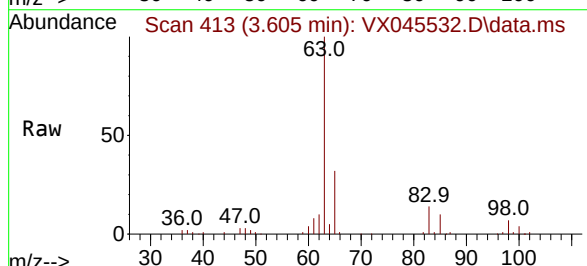
Manual Integrations
APPROVED

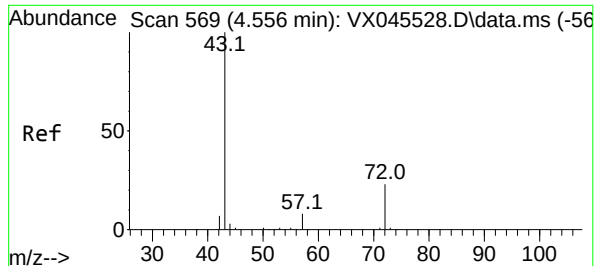
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#24
1,1-Dichloroethane
Concen: 49.677 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 63 Resp: 122240
Ion Ratio Lower Upper
63 100
98 7.3 3.4 10.1
100 4.2 2.2 6.6





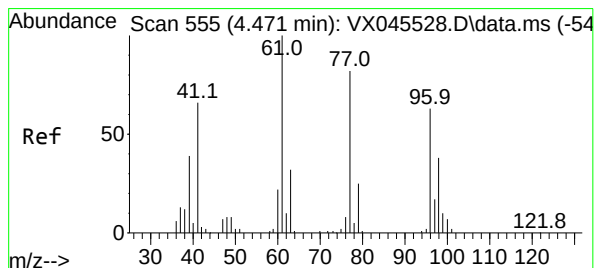
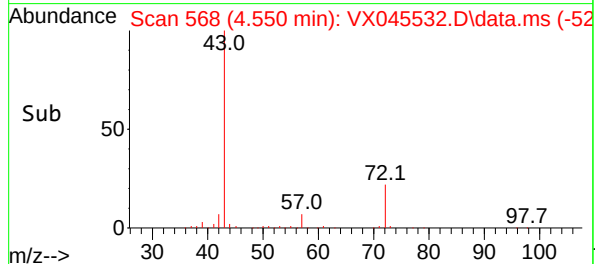
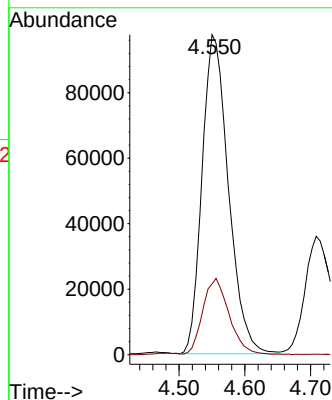
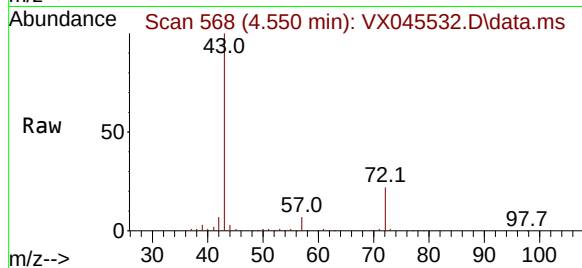
#25
2-Butanone
Concen: 254.882 ug/l
RT: 4.550 min Scan# 569
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion: 43 Resp: 271680
Ion Ratio Lower Upper
43 100
72 22.0 18.6 28.0

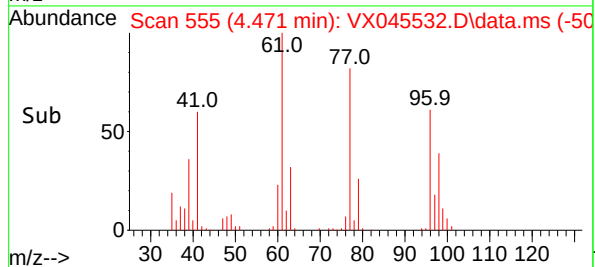
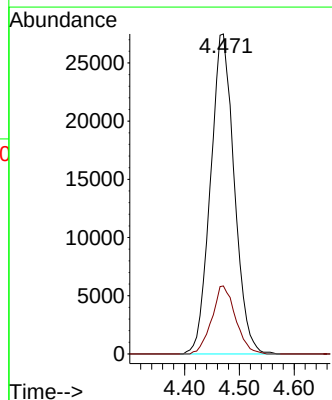
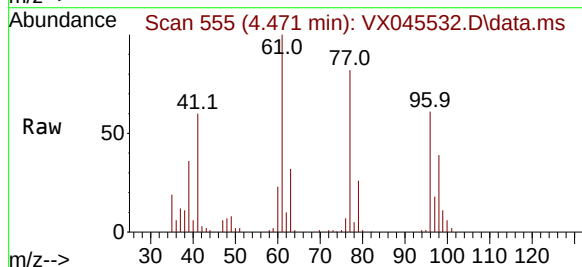
Manual Integrations
APPROVED

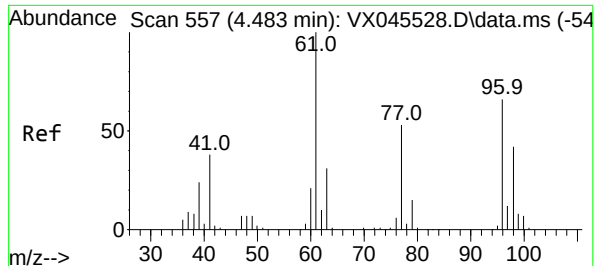
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#26
2,2-Dichloropropane
Concen: 52.020 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 77 Resp: 82704
Ion Ratio Lower Upper
77 100
97 21.2 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 49.049 ug/l

RT: 4.483 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 96 Resp: 71072

Ion Ratio Lower Upper

96 100

61 158.6 0.0 313.2

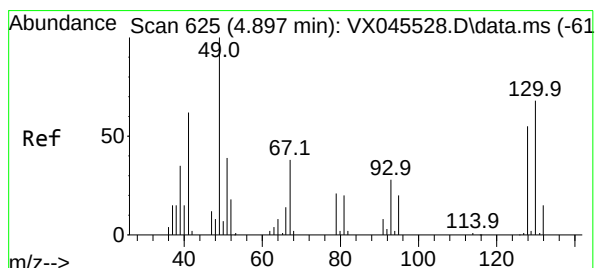
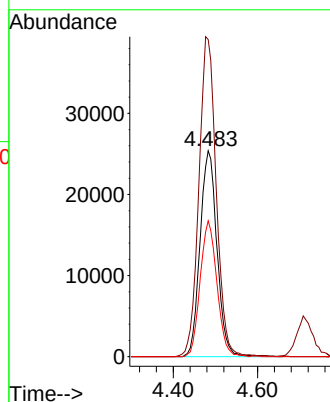
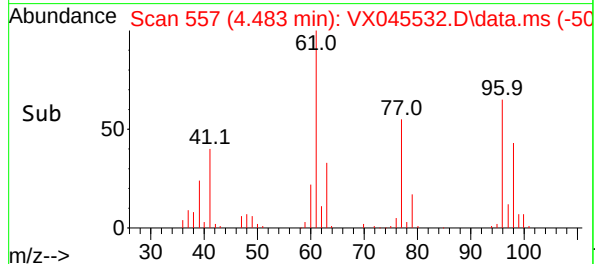
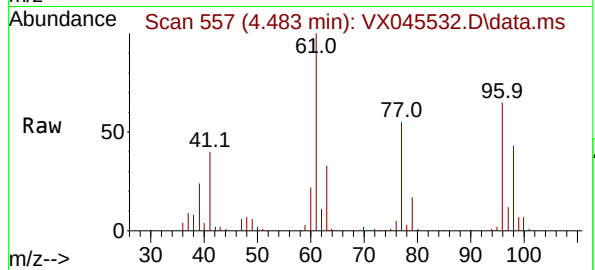
98 65.1 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#28

Bromochloromethane

Concen: 48.403 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

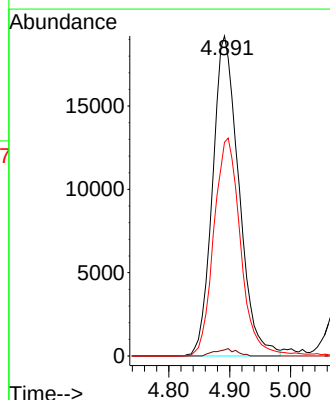
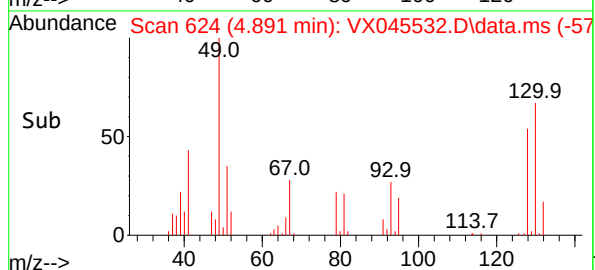
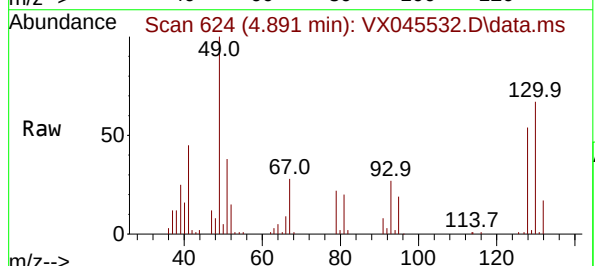
Tgt Ion: 49 Resp: 57557

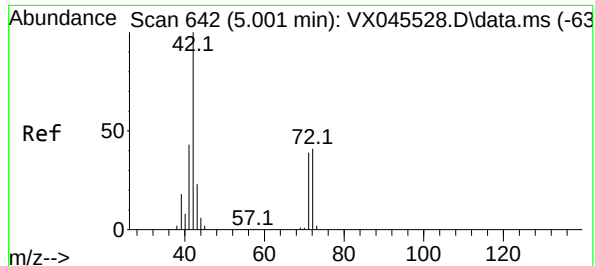
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 69.3 54.6 81.8





#29

Tetrahydrofuran

Concen: 249.473 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

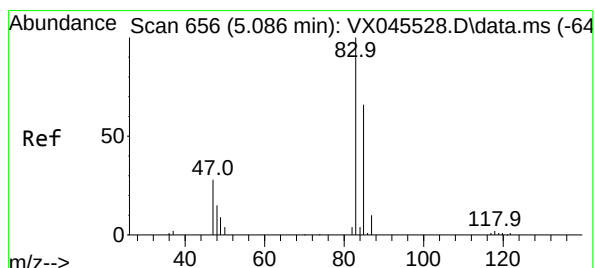
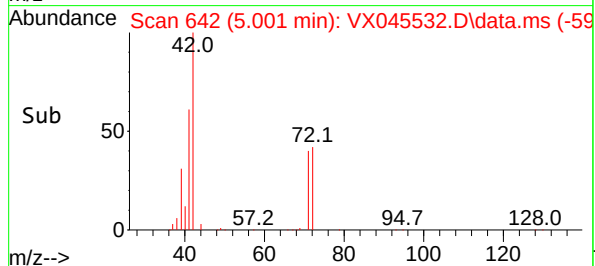
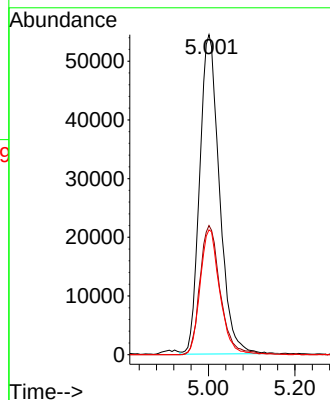
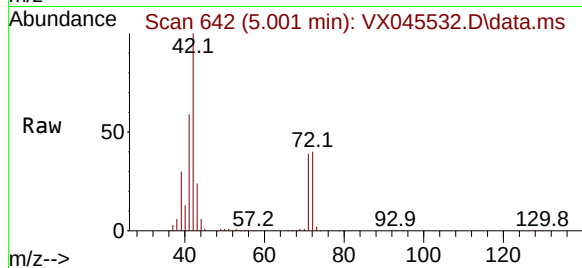
ICVVX040225

Tgt Ion:	42	Resp:	17240
Ion	Ratio	Lower	Upper
42	100		
72	41.7	33.4	50.0
71	39.0	31.4	47.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#30

Chloroform

Concen: 49.614 ug/l

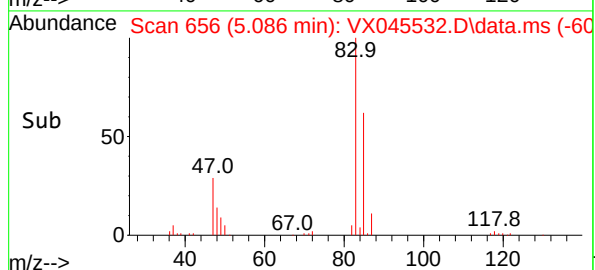
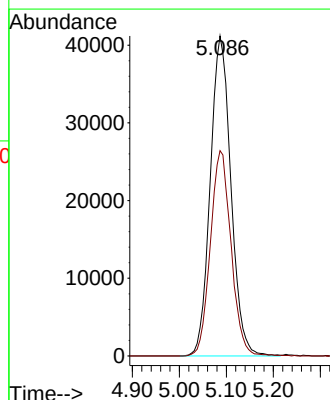
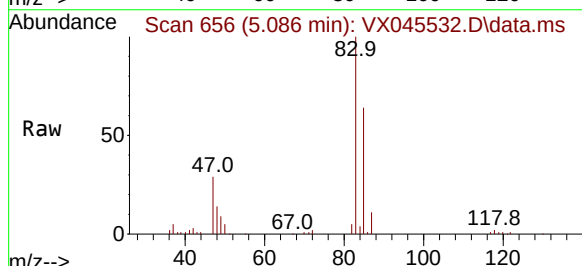
RT: 5.086 min Scan# 656

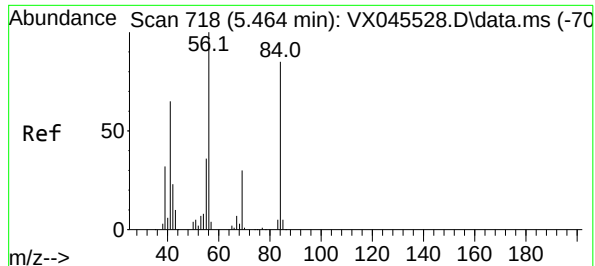
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

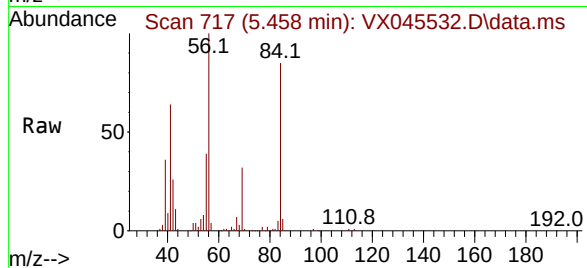
Tgt Ion:	83	Resp:	125621
Ion	Ratio	Lower	Upper
83	100		
85	64.2	52.8	79.2





#31
Cyclohexane
Concen: 49.583 ug/l
RT: 5.458 min Scan# 717
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

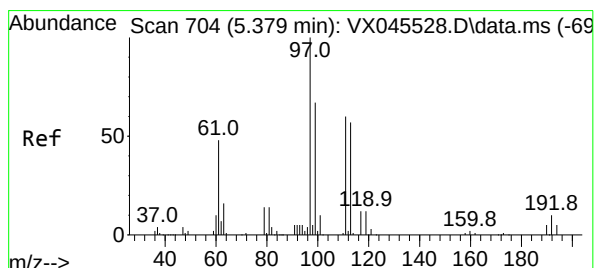
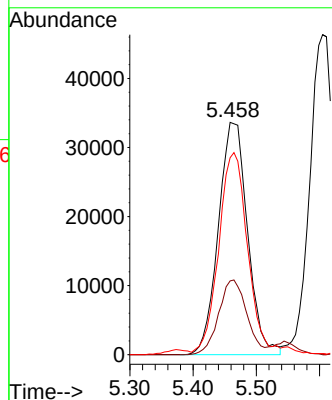
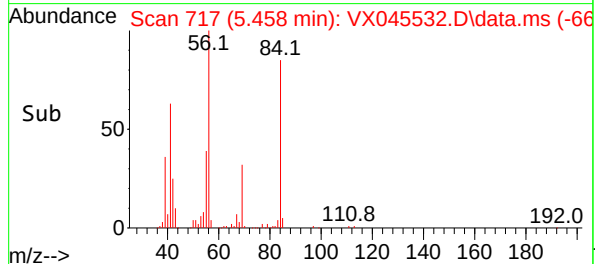
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



Tgt Ion: 56 Resp: 107862
Ion Ratio Lower Upper
56 100
69 31.7 23.6 35.4
84 82.7 67.7 101.5

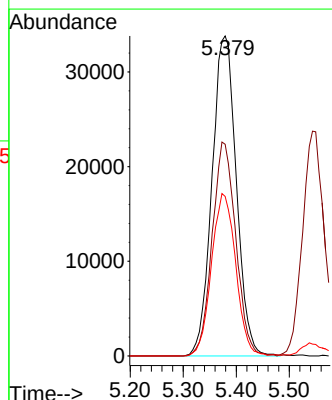
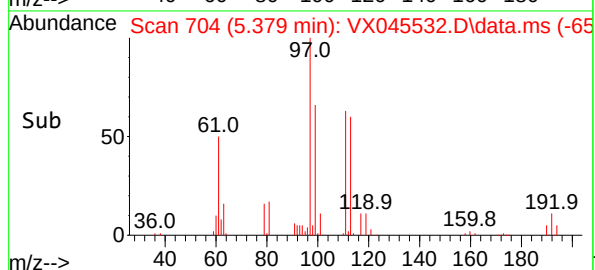
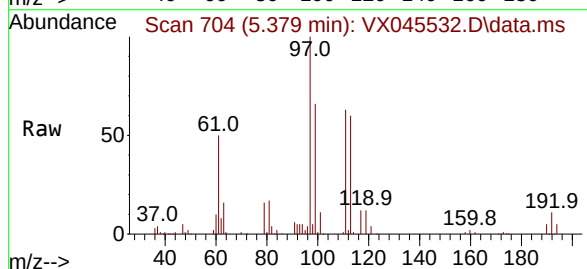
Manual Integrations
APPROVED

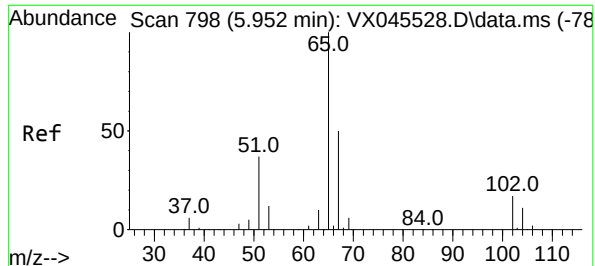
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#32
1,1,1-Trichloroethane
Concen: 50.330 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 97 Resp: 107830
Ion Ratio Lower Upper
97 100
99 64.9 51.7 77.5
61 50.5 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 50.329 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 65 Resp: 8925

Ion Ratio Lower Upper

65 100

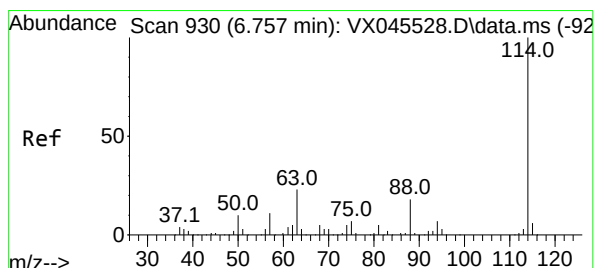
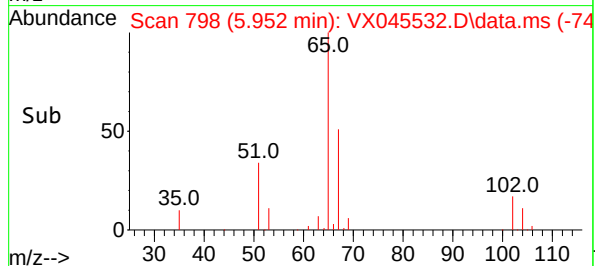
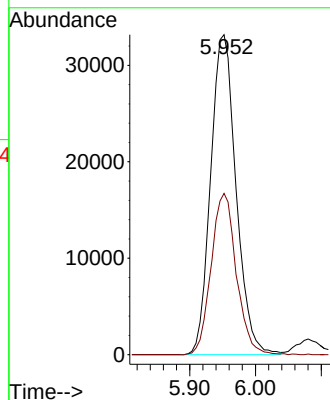
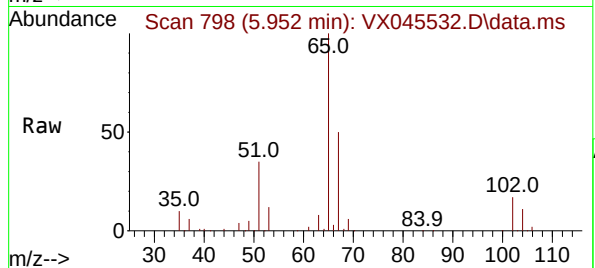
67 49.8 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

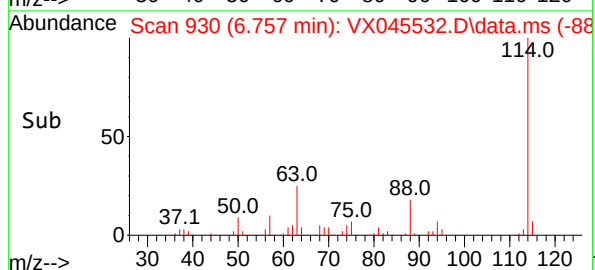
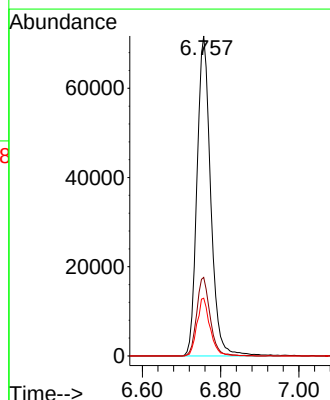
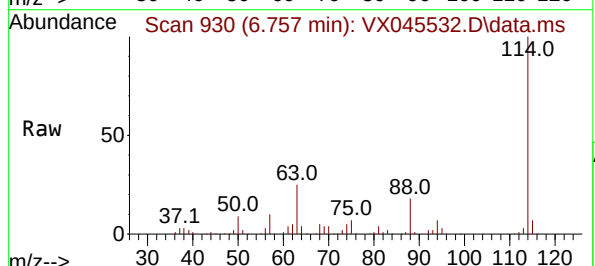
Tgt Ion:114 Resp: 174855

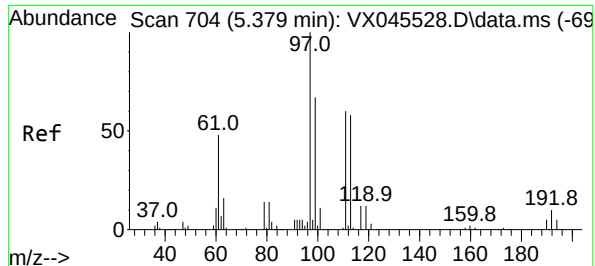
Ion Ratio Lower Upper

114 100

63 24.5 0.0 46.8

88 18.1 0.0 35.4





#35

Dibromofluoromethane

Concen: 49.256 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

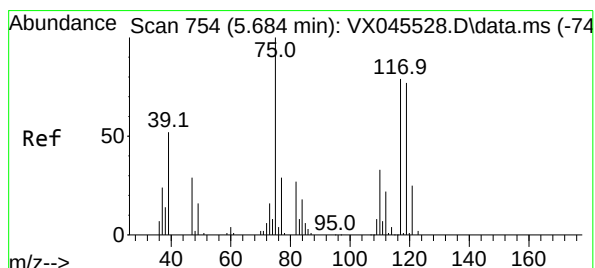
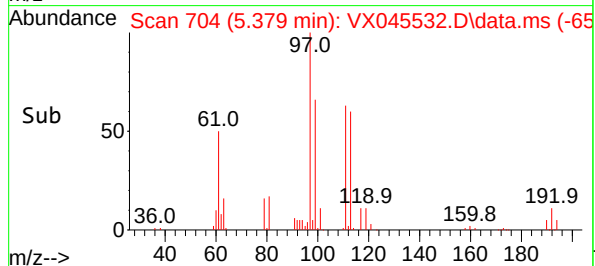
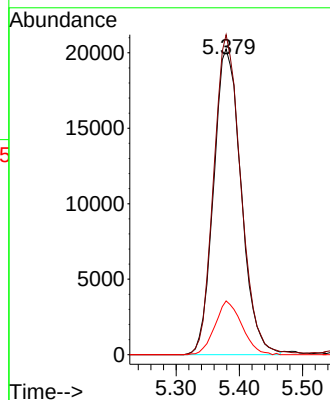
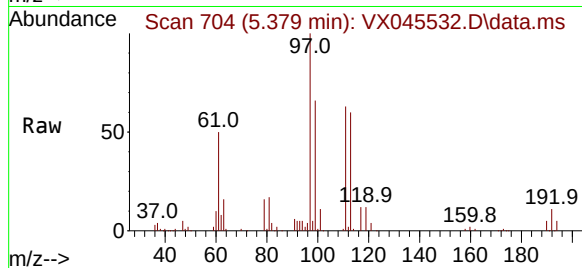
ICVX040225

Tgt Ion:	113	Resp:	6110
Ion	Ratio	Lower	Upper
113	100		
111	103.5	81.8	122.6
192	17.2	13.8	20.6

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#36

1,1-Dichloropropene

Concen: 50.088 ug/l

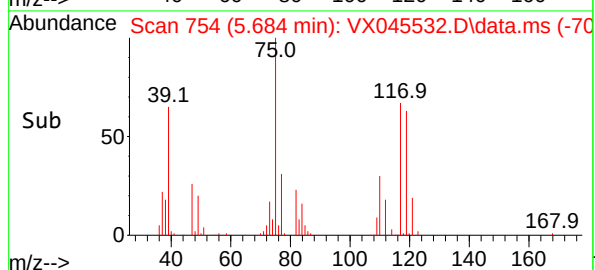
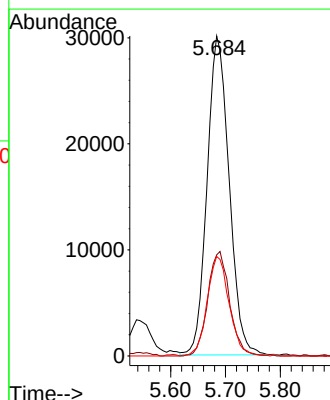
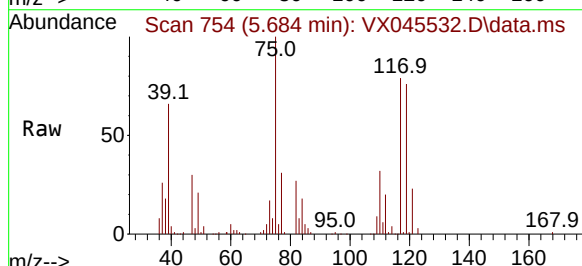
RT: 5.684 min Scan# 754

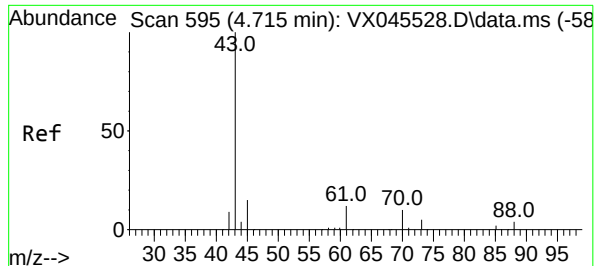
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Tgt Ion:	75	Resp:	83901
Ion	Ratio	Lower	Upper
75	100		
110	32.5	16.9	50.6
77	31.1	25.0	37.4





#37

Ethyl Acetate

Concen: 49.787 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

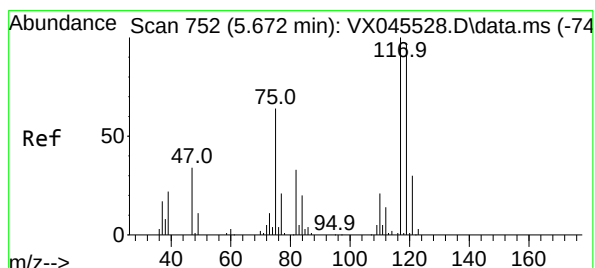
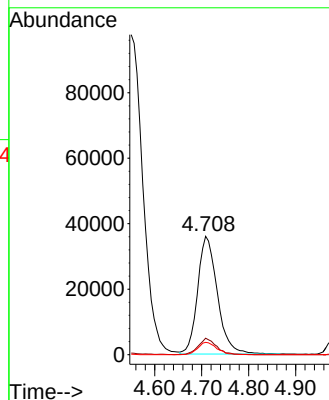
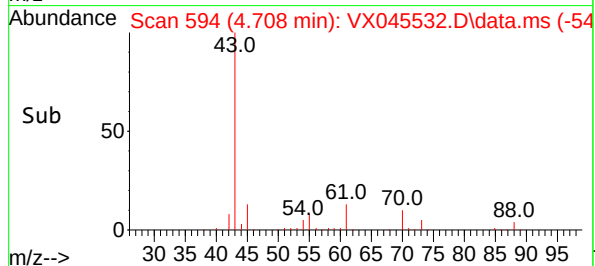
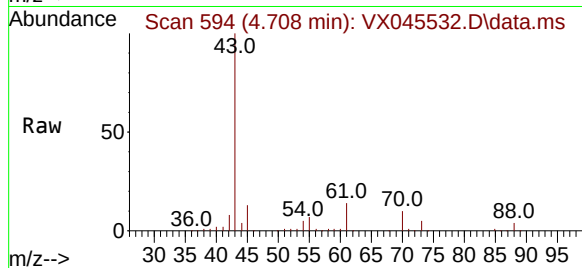
ICVX040225

Tgt Ion:	43	Resp:	10509
Ion	Ratio	Lower	Upper
43	100		
61	12.9	9.9	14.9
70	10.2	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#38

Carbon Tetrachloride

Concen: 50.667 ug/l

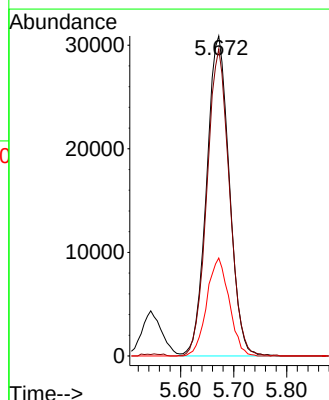
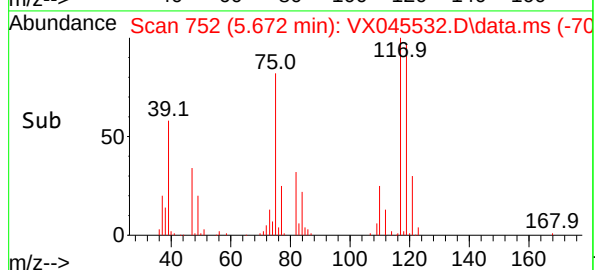
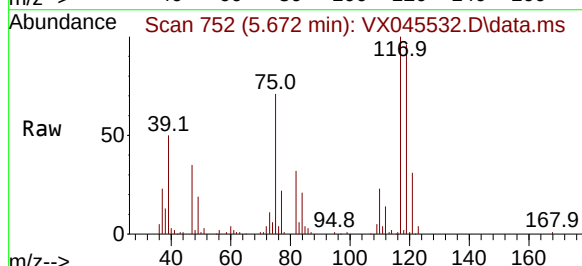
RT: 5.672 min Scan# 752

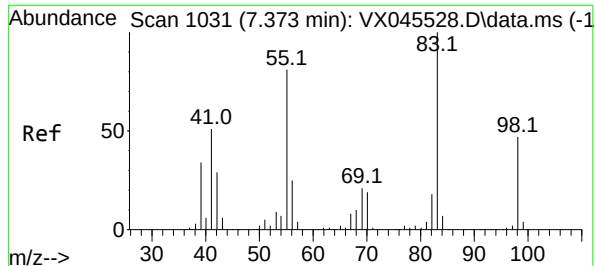
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Tgt Ion:	117	Resp:	91723
Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
121	30.6	24.2	36.2





#39

Methylcyclohexane

Concen: 50.124 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 83 Resp: 102919

Ion Ratio Lower Upper

83 100

55 82.1 64.9 97.3

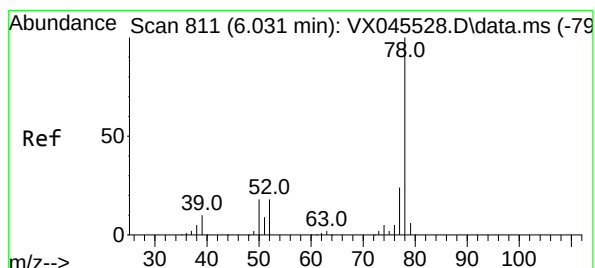
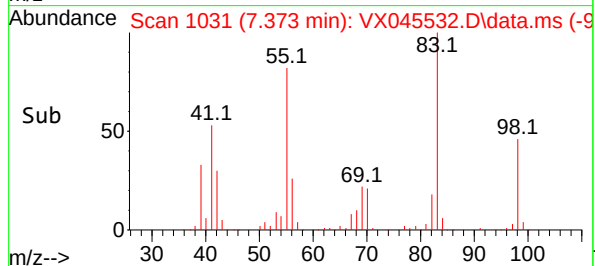
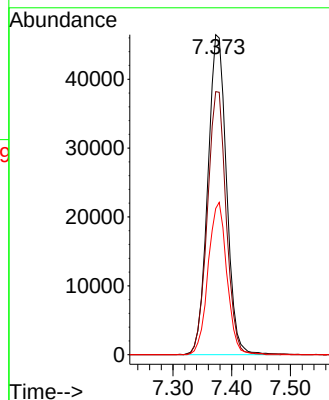
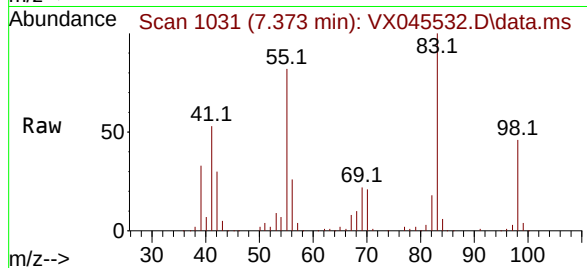
98 45.7 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#40

Benzene

Concen: 49.212 ug/l

RT: 6.031 min Scan# 811

Delta R.T. 0.000 min

Lab File: VX045532.D

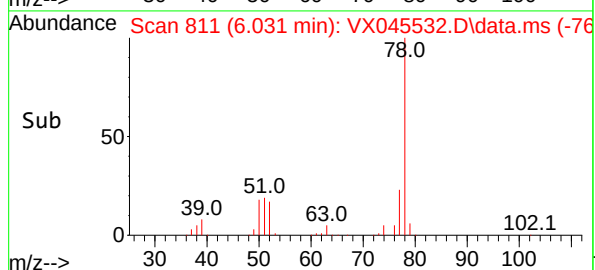
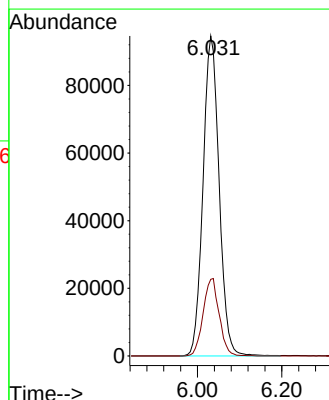
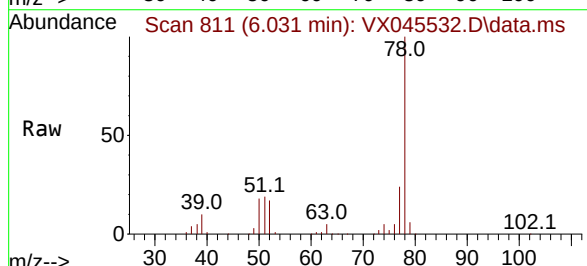
Acq: 01 Apr 2025 19:48

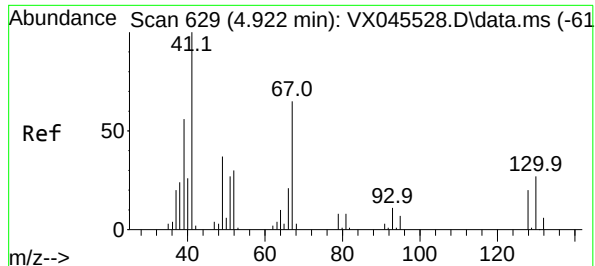
Tgt Ion: 78 Resp: 251758

Ion Ratio Lower Upper

78 100

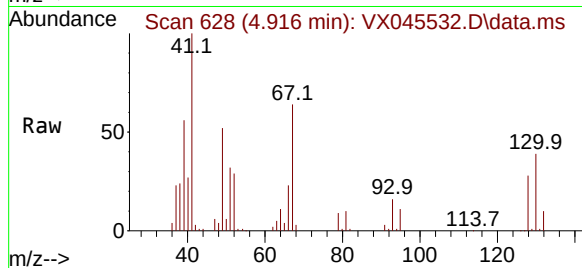
77 24.0 19.0 28.6





#41
Methacrylonitrile
Concen: 53.098 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

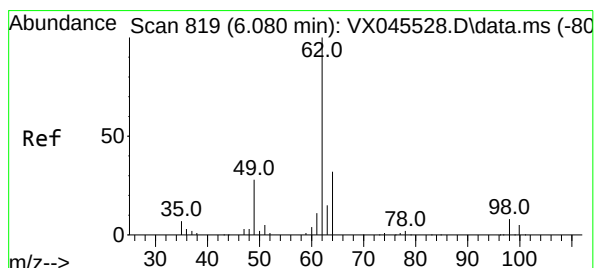
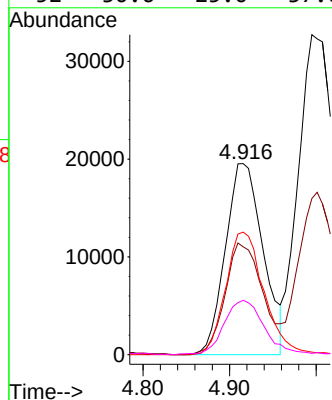
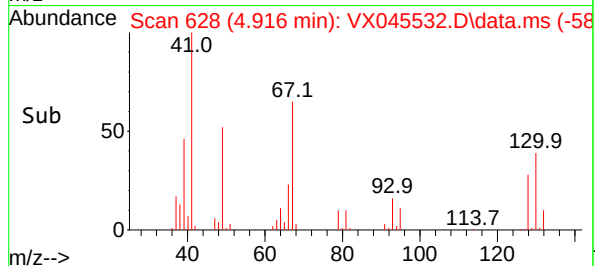
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



Tgt Ion: 41 Resp: 59140
Ion Ratio Lower Upper
41 100
39 58.5 47.0 70.6
67 65.5 53.2 79.8
52 30.6 25.0 37.6

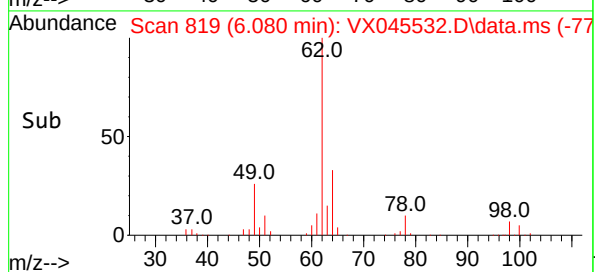
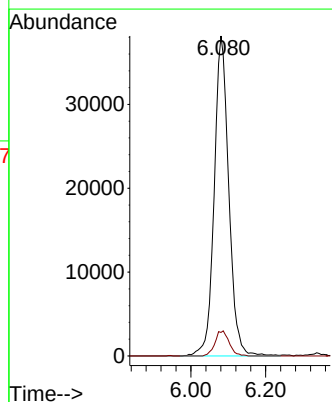
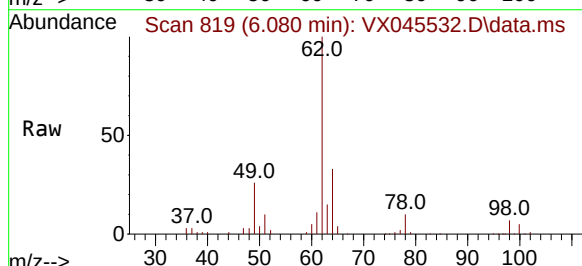
Manual Integrations
APPROVED

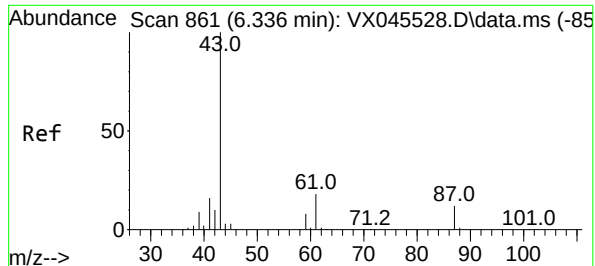
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#42
1,2-Dichloroethane
Concen: 48.875 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 62 Resp: 103270
Ion Ratio Lower Upper
62 100
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 51.539 ug/l

RT: 6.336 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

Client Sample Id :

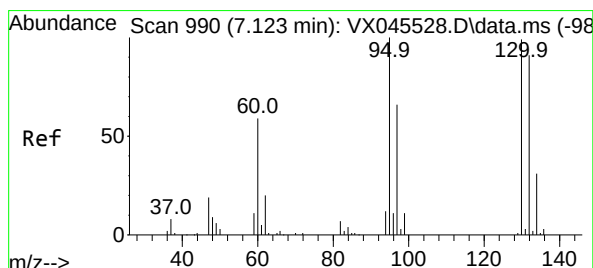
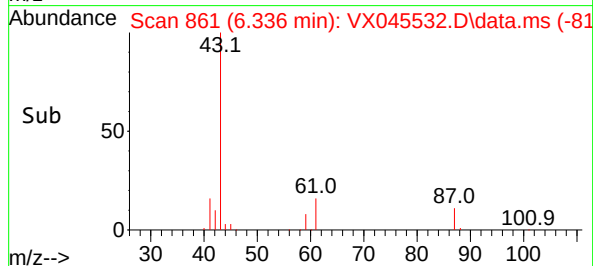
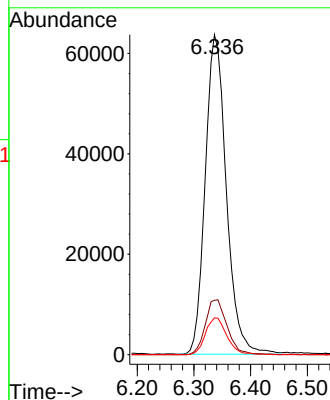
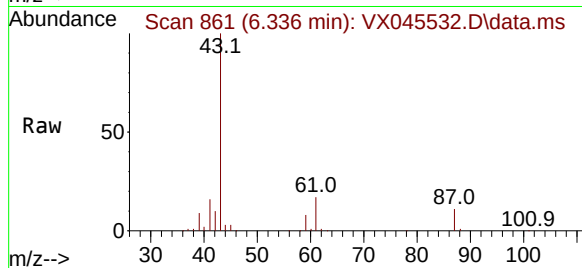
ICVX040225

Tgt Ion:	43	Resp:	16489
Ion Ratio	Lower	Upper	
43	100		
61	17.7	14.1	21.1
87	11.6	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#44

Trichloroethene

Concen: 47.643 ug/l

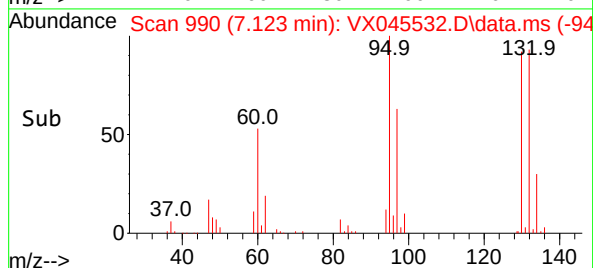
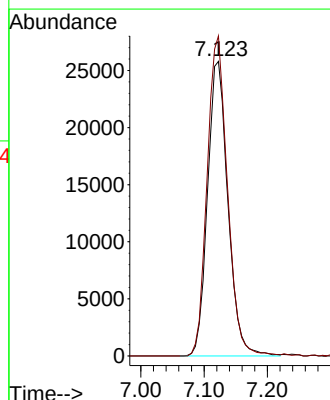
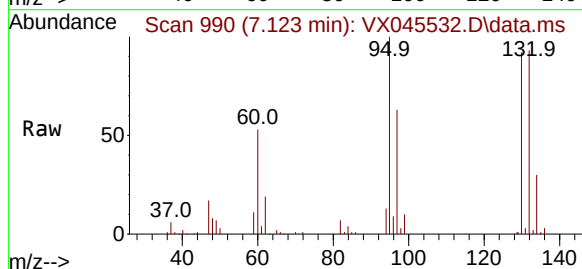
RT: 7.123 min Scan# 990

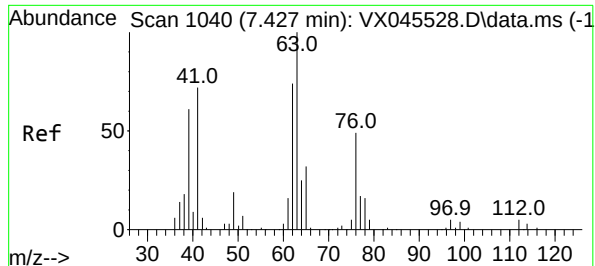
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Tgt Ion:	130	Resp:	57931
Ion Ratio	Lower	Upper	
130	100		
95	108.6	0.0	202.0





#45

1,2-Dichloropropane

Concen: 49.521 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 63 Resp: 63210

Ion Ratio Lower Upper

63 100

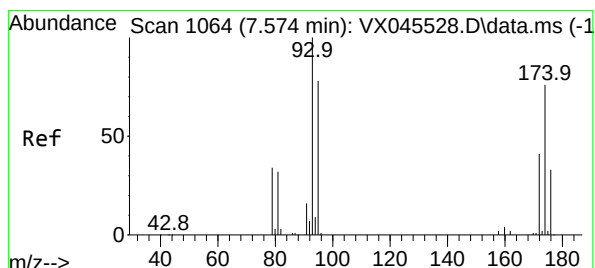
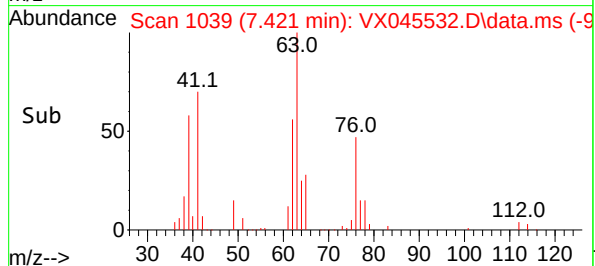
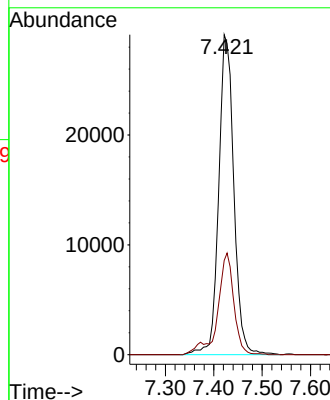
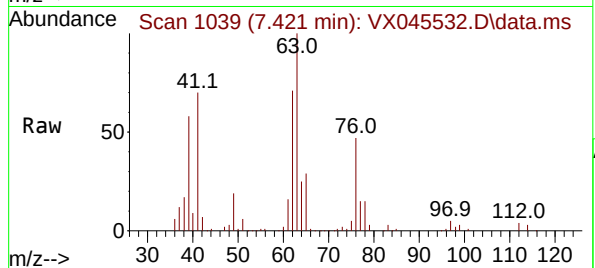
65 29.5 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#46

Dibromomethane

Concen: 48.542 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

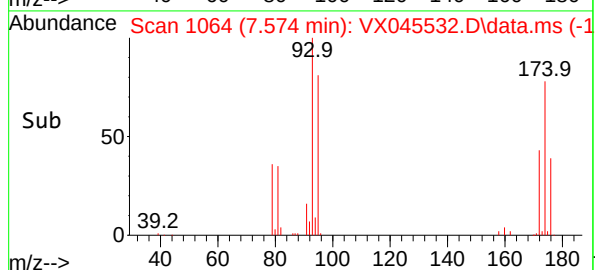
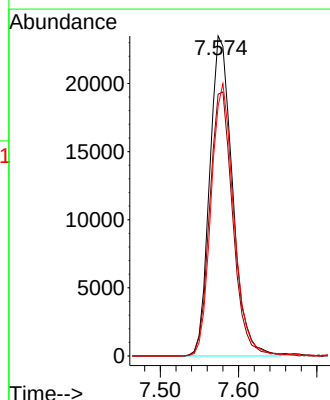
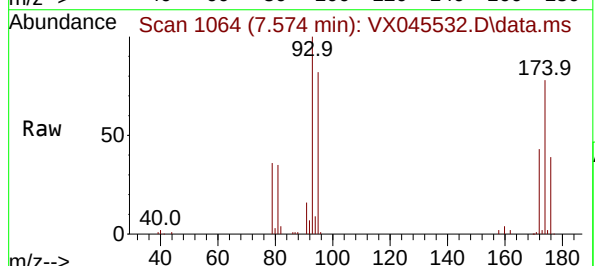
Tgt Ion: 93 Resp: 47564

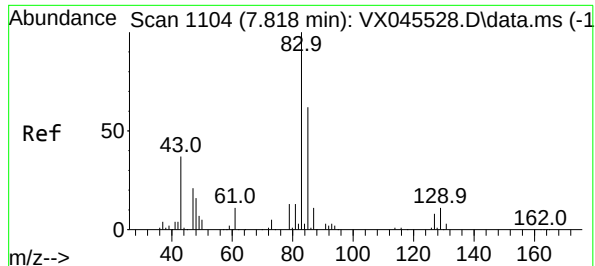
Ion Ratio Lower Upper

93 100

95 83.6 64.8 97.2

174 84.5 65.4 98.0





#47

Bromodichloromethane

Concen: 49.273 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

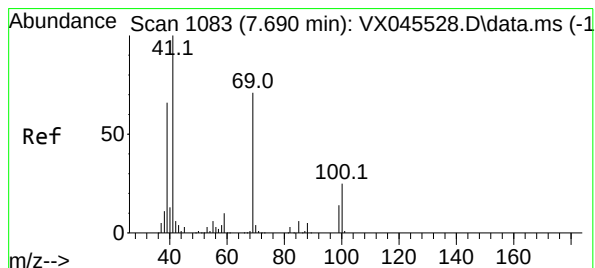
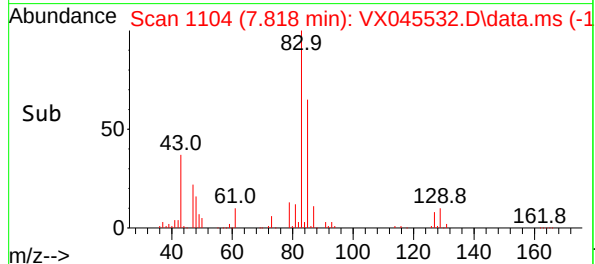
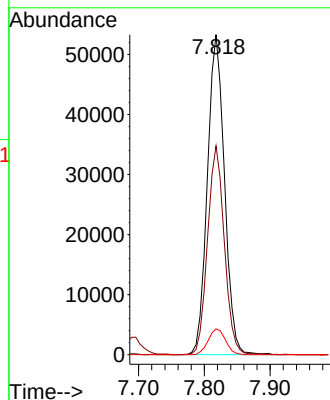
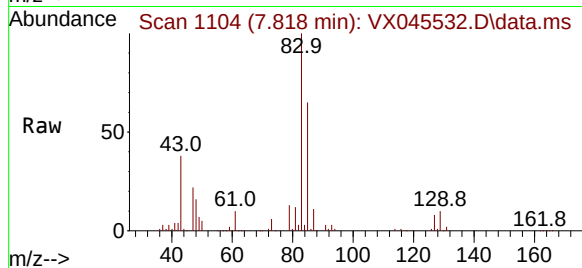
ICVX040225

Tgt Ion:	83	Resp:	96418
Ion	Ratio	Lower	Upper
83	100		
85	65.2	49.7	74.5
127	8.1	6.1	9.1

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#48

Methyl methacrylate

Concen: 51.507 ug/l

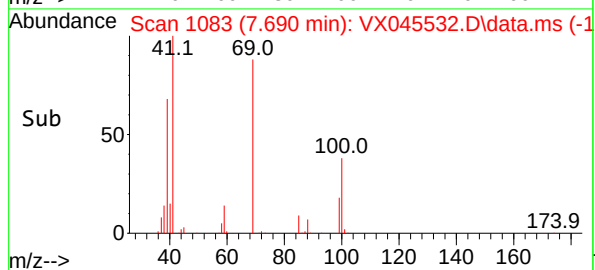
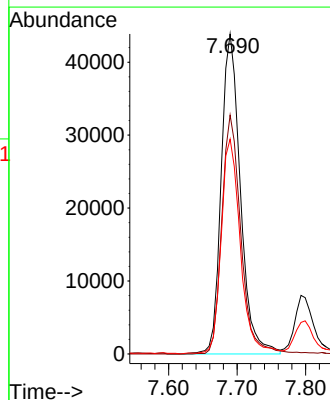
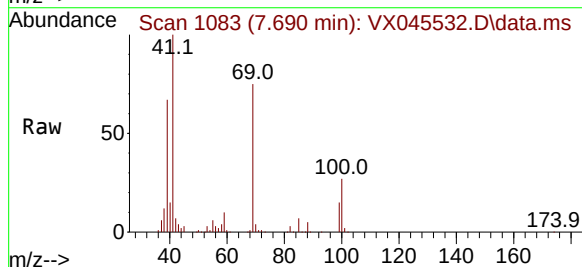
RT: 7.690 min Scan# 1083

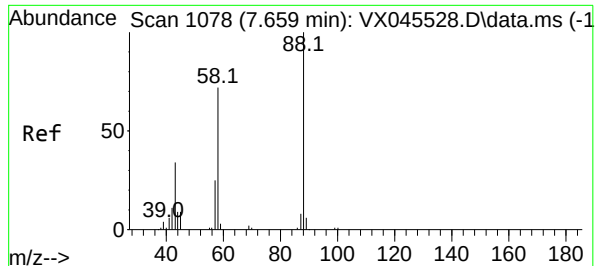
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Tgt Ion:	41	Resp:	85084
Ion	Ratio	Lower	Upper
41	100		
69	74.5	58.2	87.2
39	67.3	53.6	80.4





#49

1,4-Dioxane

Concen: 955.327 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

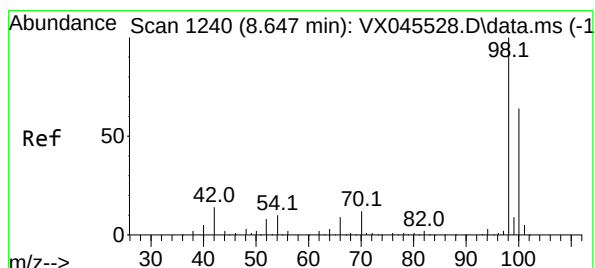
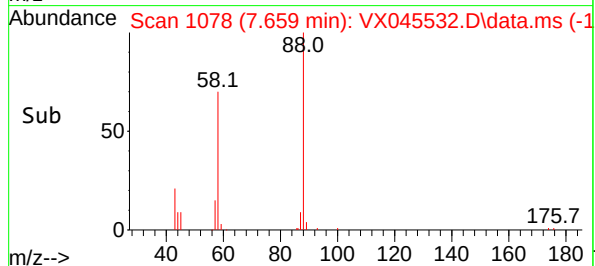
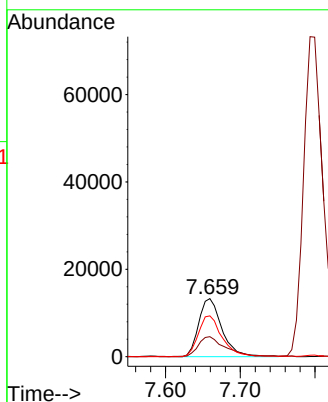
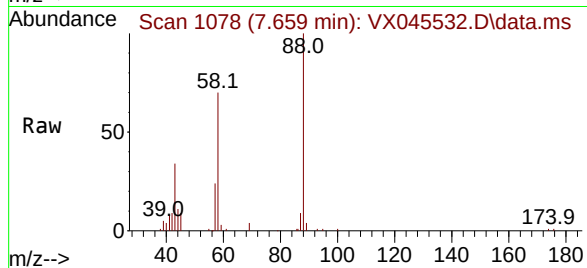
ICVVX040225

Tgt Ion:	88	Resp:	2855
Ion	Ratio	Lower	Upper
88	100		
43	40.3	32.2	48.4
58	72.2	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#50

Toluene-d8

Concen: 50.160 ug/l

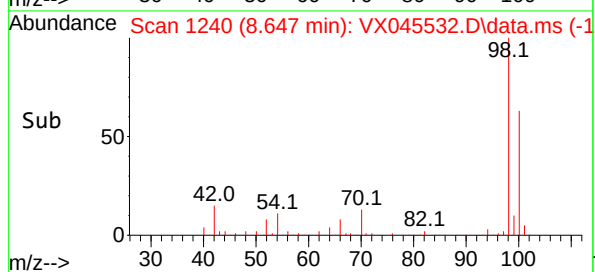
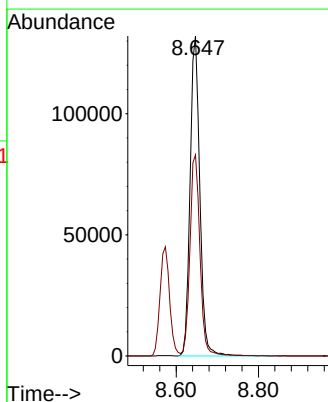
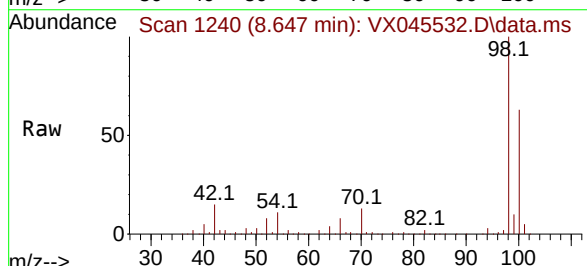
RT: 8.647 min Scan# 1240

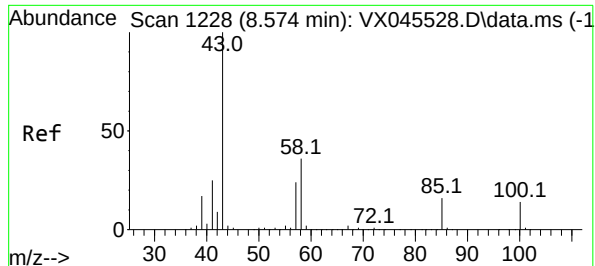
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Tgt Ion:	98	Resp:	217200
Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.2	78.4





#51

4-Methyl-2-Pentanone

Concen: 254.994 ug/l

RT: 8.568 min Scan# 1227

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 43 Resp: 54082

Ion Ratio Lower Upper

43 100

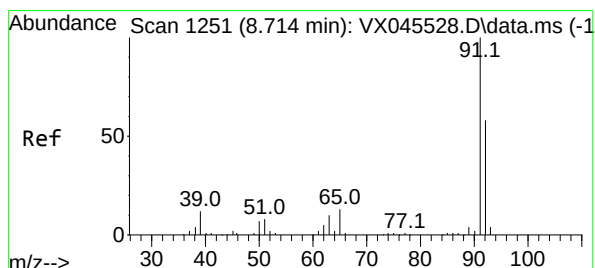
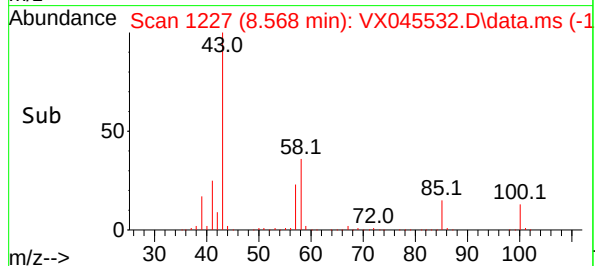
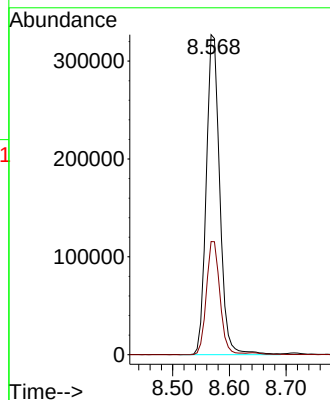
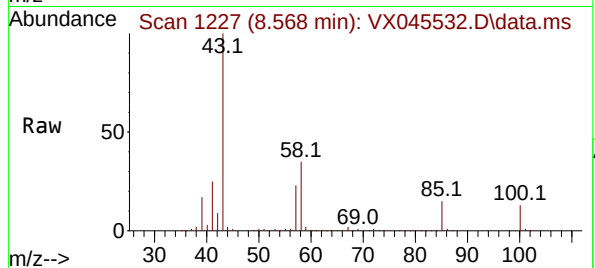
58 35.5 28.5 42.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#52

Toluene

Concen: 48.994 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.000 min

Lab File: VX045532.D

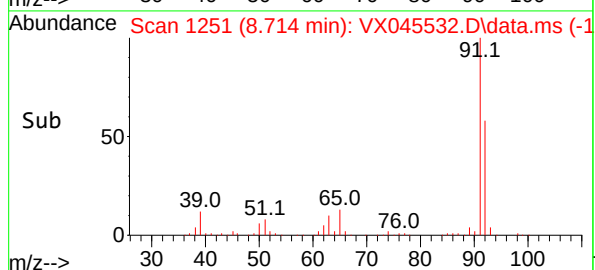
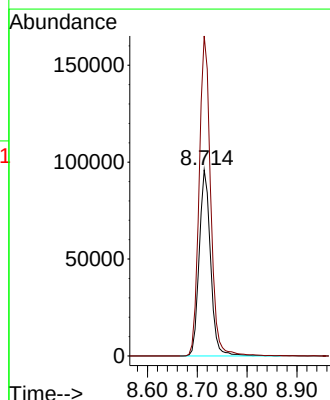
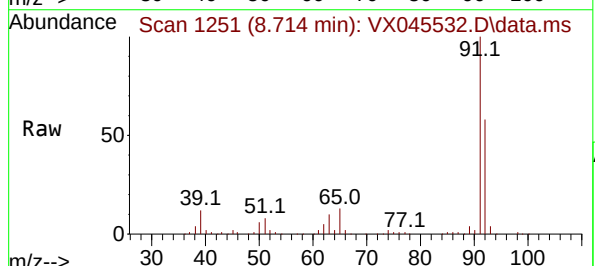
Acq: 01 Apr 2025 19:48

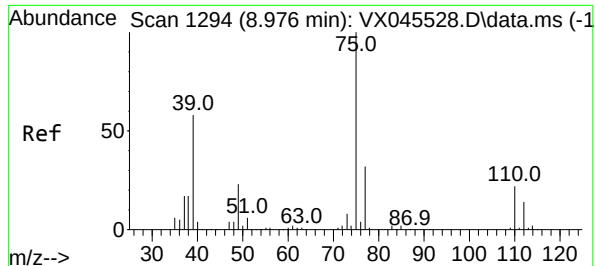
Tgt Ion: 92 Resp: 151664

Ion Ratio Lower Upper

92 100

91 174.0 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 46.783 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 75 Resp: 8774

Ion Ratio Lower Upper

75 100

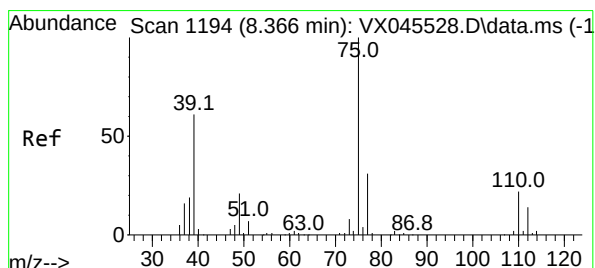
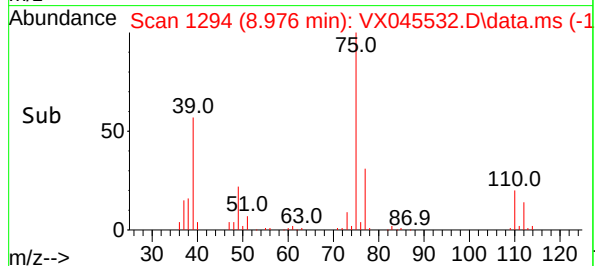
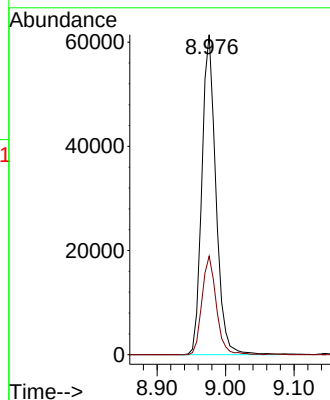
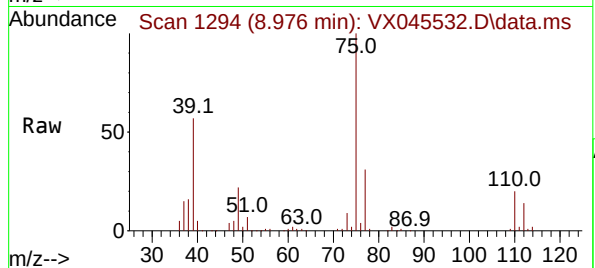
77 30.8 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#54

cis-1,3-Dichloropropene

Concen: 53.878 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

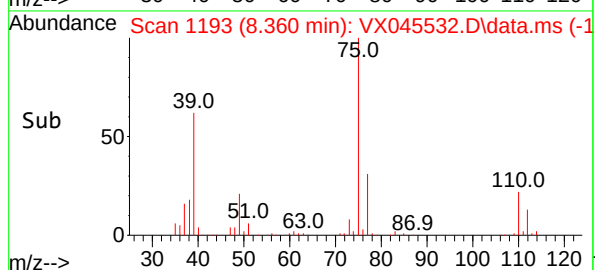
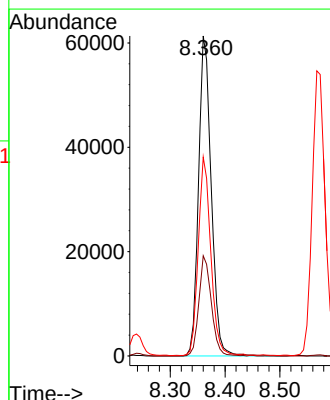
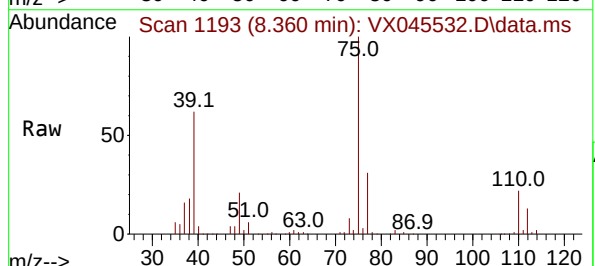
Tgt Ion: 75 Resp: 99074

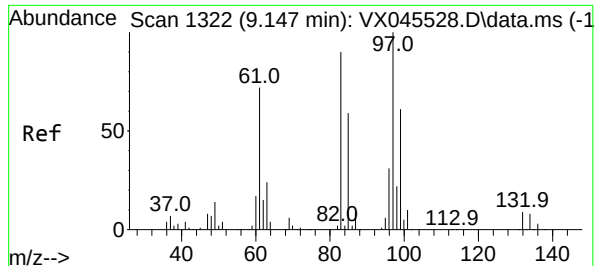
Ion Ratio Lower Upper

75 100

77 31.3 24.6 36.8

39 62.0 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 49.007 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 97 Resp: 60452

Ion Ratio Lower Upper

97 100

83 86.6 71.8 107.8

85 55.7 47.0 70.6

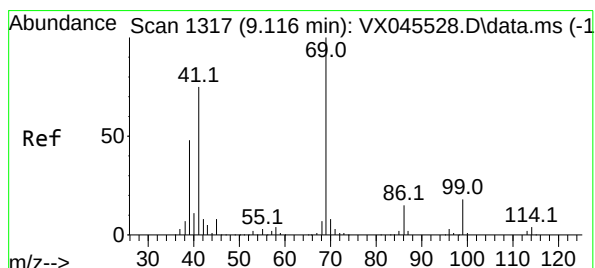
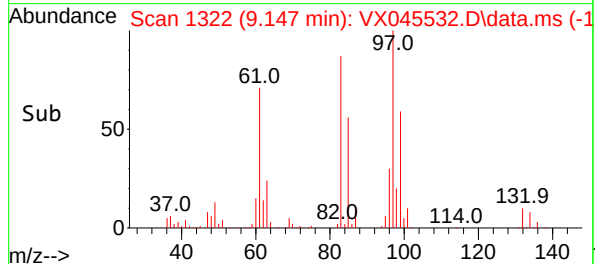
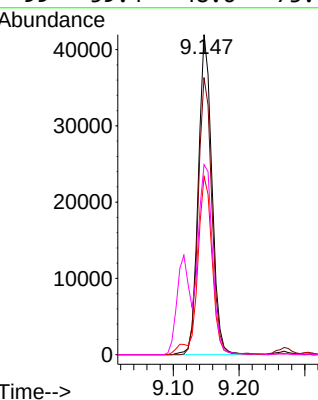
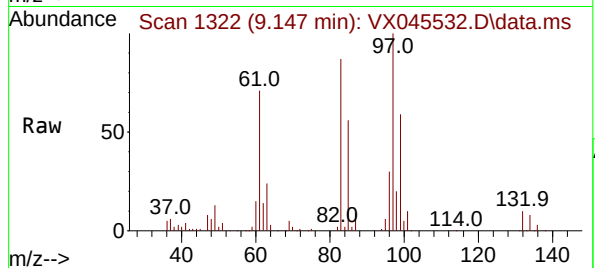
99 59.4 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#56

Ethyl methacrylate

Concen: 53.705 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

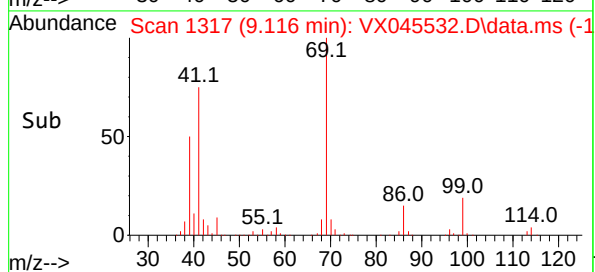
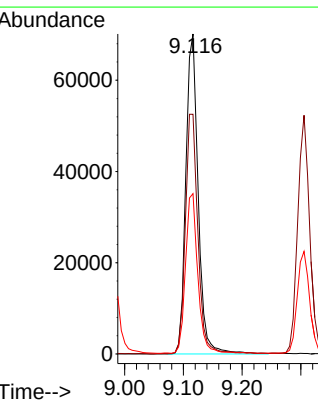
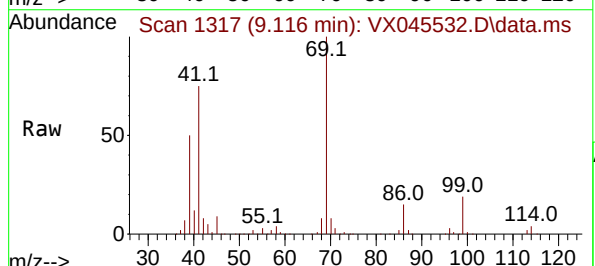
Tgt Ion: 69 Resp: 102525

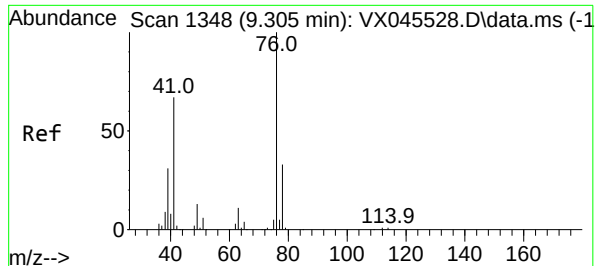
Ion Ratio Lower Upper

69 100

41 76.7 61.3 91.9

39 50.7 40.2 60.2





#57

1,3-Dichloropropane

Concen: 49.869 ug/l

RT: 9.305 min Scan# 1171

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 76 Resp: 10712

Ion Ratio Lower Upper

76 100

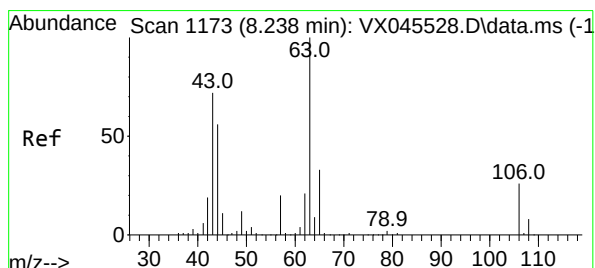
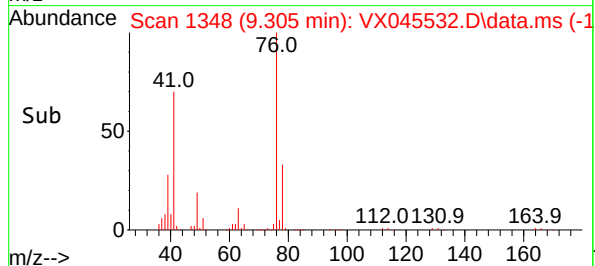
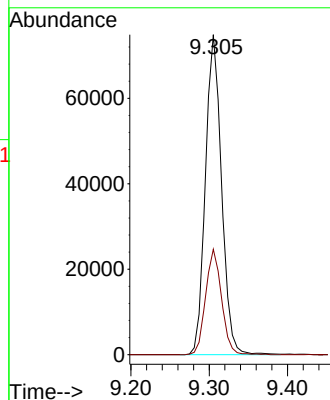
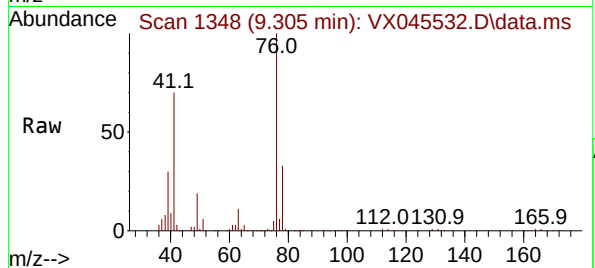
78 32.5 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#58

2-Chloroethyl Vinyl ether

Concen: 260.201 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045532.D

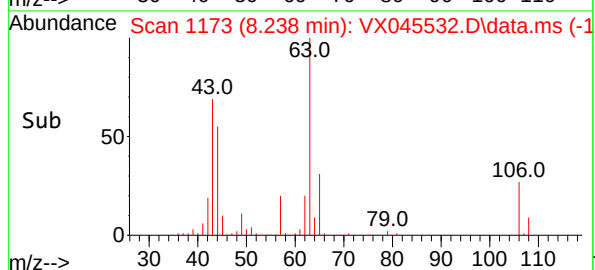
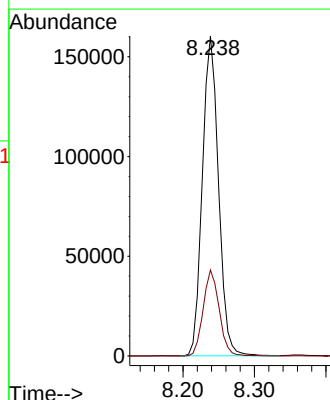
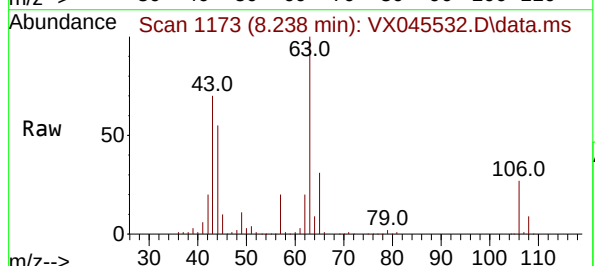
Acq: 01 Apr 2025 19:48

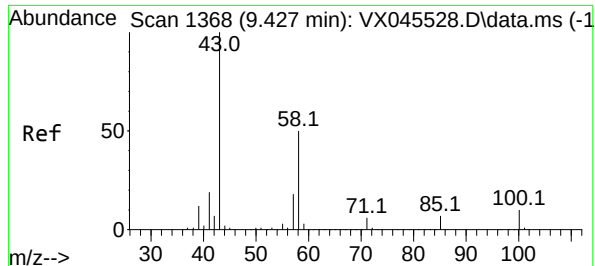
Tgt Ion: 63 Resp: 251285

Ion Ratio Lower Upper

63 100

106 26.6 21.0 31.6





#59

2-Hexanone

Concen: 251.710 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVX040225

Tgt Ion: 43 Resp: 395330

Ion Ratio Lower Upper

43 100

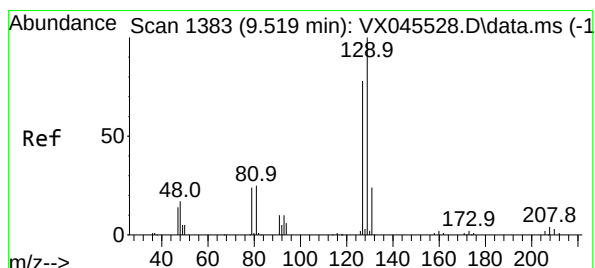
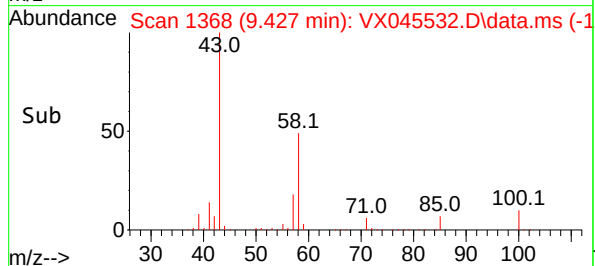
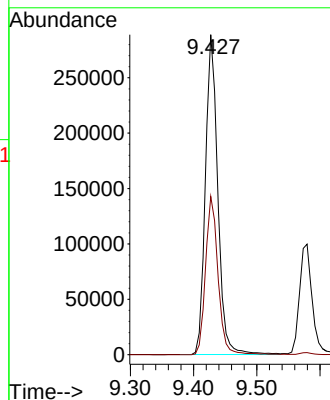
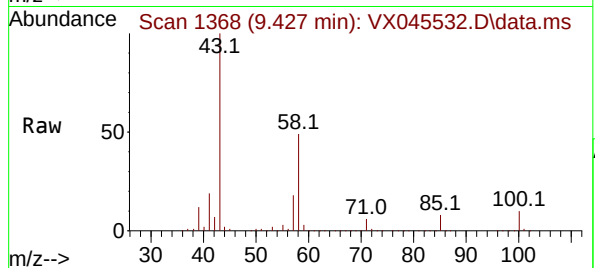
58 49.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#60

Dibromochloromethane

Concen: 50.983 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045532.D

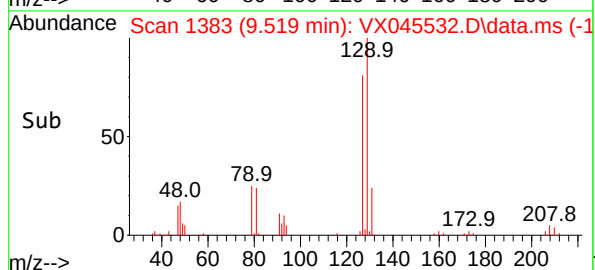
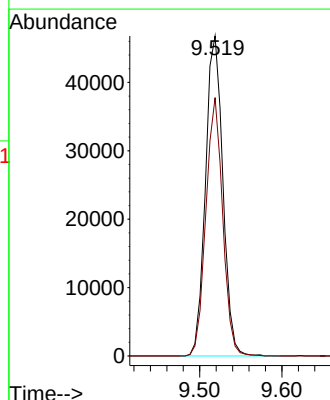
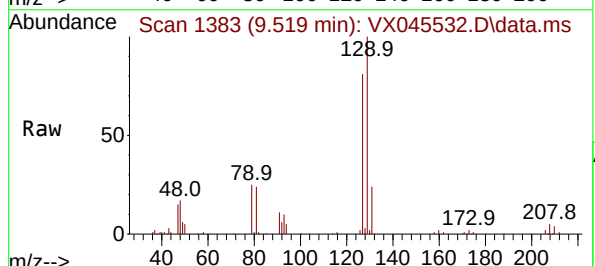
Acq: 01 Apr 2025 19:48

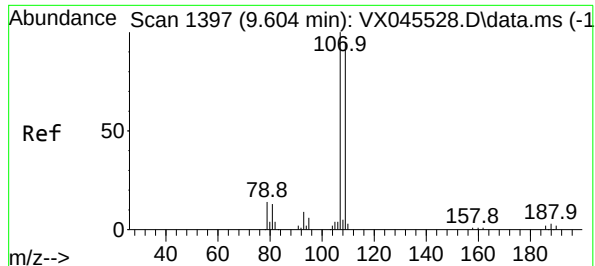
Tgt Ion:129 Resp: 68562

Ion Ratio Lower Upper

129 100

127 78.2 39.4 118.2





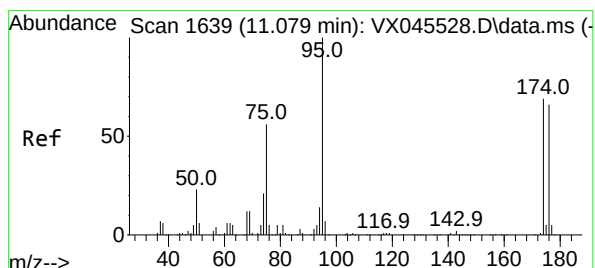
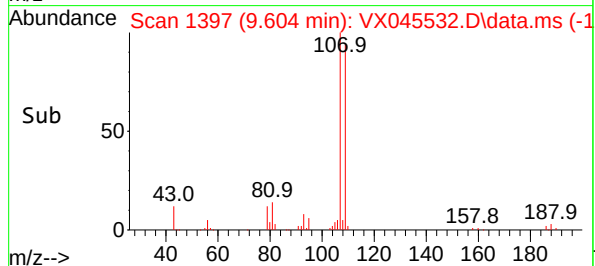
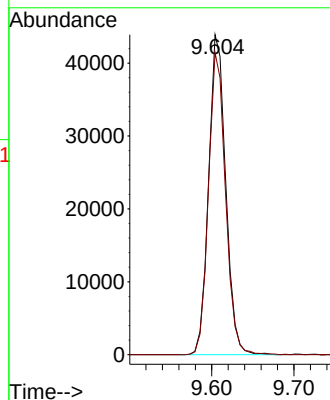
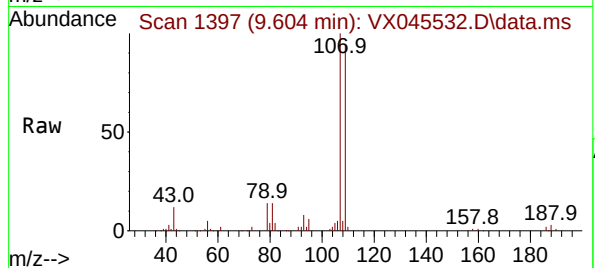
#61
1,2-Dibromoethane
Concen: 50.693 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion: 107 Resp: 6330
Ion Ratio Lower Upper
107 100
109 94.2 75.7 113.5

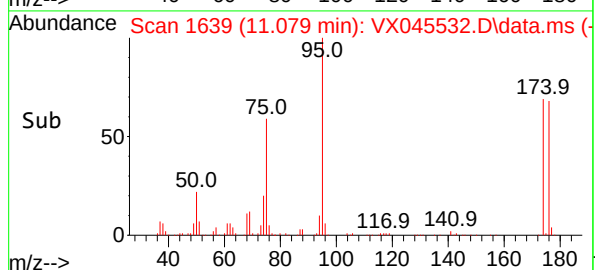
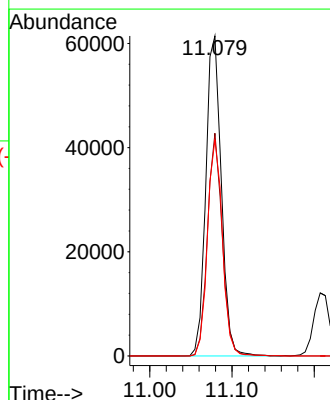
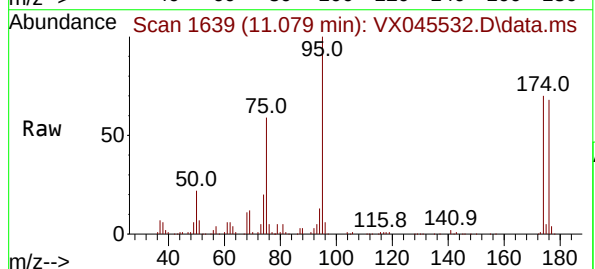
Manual Integrations
APPROVED

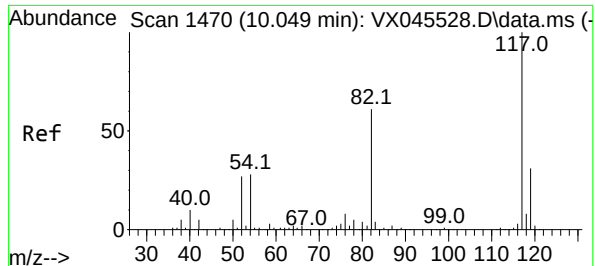
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#62
4-Bromofluorobenzene
Concen: 50.959 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

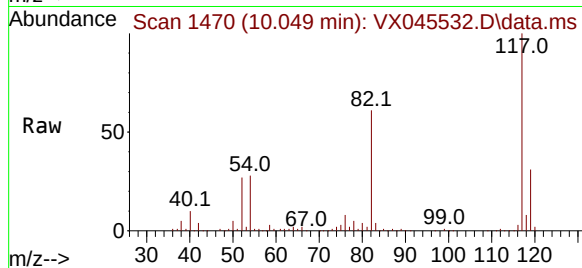
Tgt Ion: 95 Resp: 80376
Ion Ratio Lower Upper
95 100
174 66.4 0.0 135.8
176 65.2 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

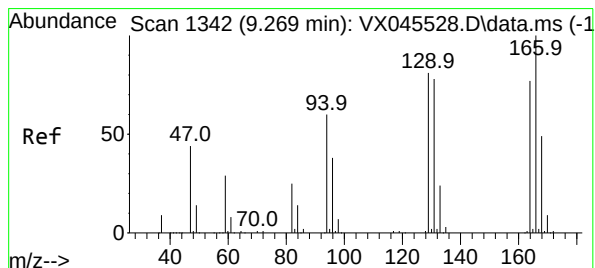
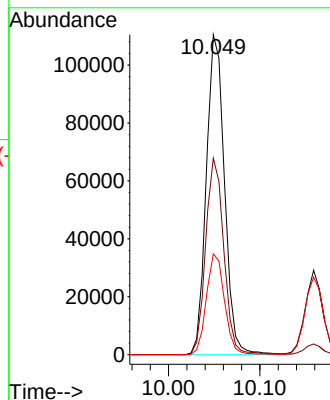
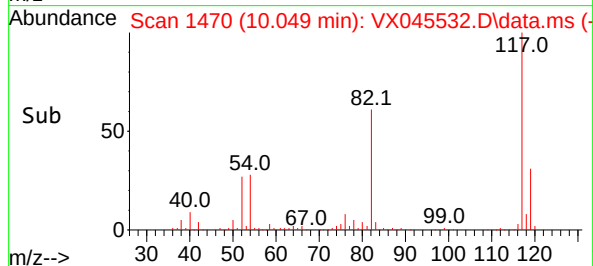
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



Tgt Ion:117 Resp: 15241
Ion Ratio Lower Upper
117 100
82 61.4 49.2 73.8
119 31.5 25.1 37.7

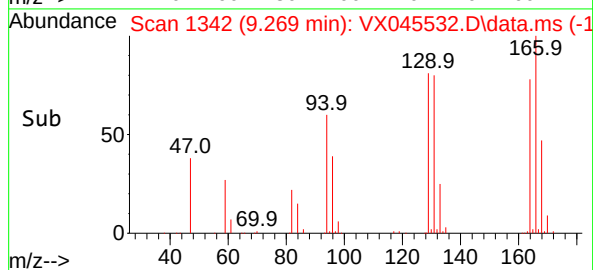
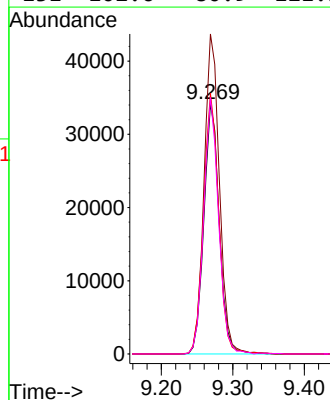
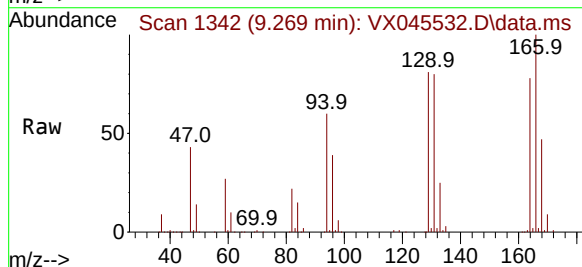
Manual Integrations
APPROVED

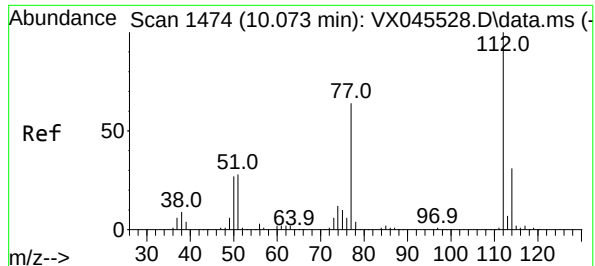
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#64
Tetrachloroethene
Concen: 47.239 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:164 Resp: 50834
Ion Ratio Lower Upper
164 100
166 128.0 103.8 155.8
129 104.3 84.3 126.5
131 102.6 80.9 121.3





#65

Chlorobenzene

Concen: 50.207 ug/l

RT: 10.073 min Scan# 1474

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion:112 Resp: 163518

Ion Ratio Lower Upper

112 100

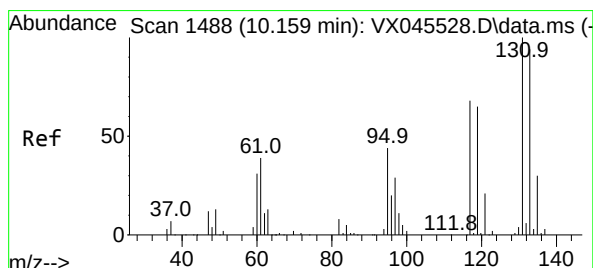
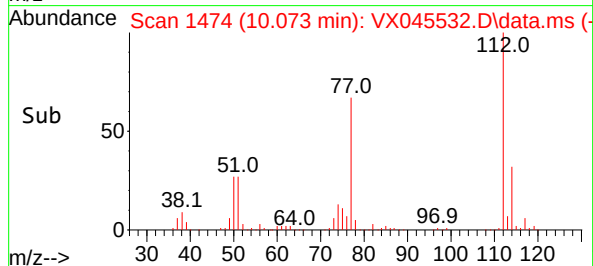
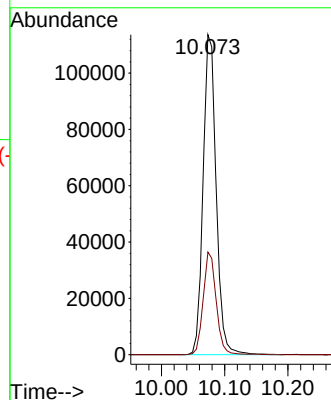
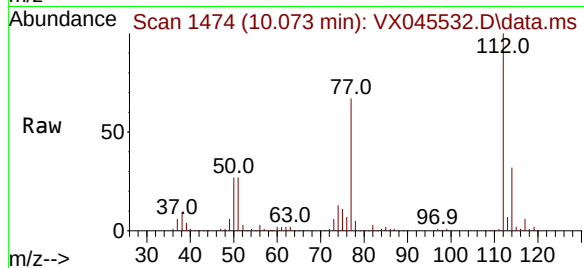
114 32.0 24.7 37.1

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#66

1,1,1,2-Tetrachloroethane

Concen: 50.495 ug/l

RT: 10.159 min Scan# 1488

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

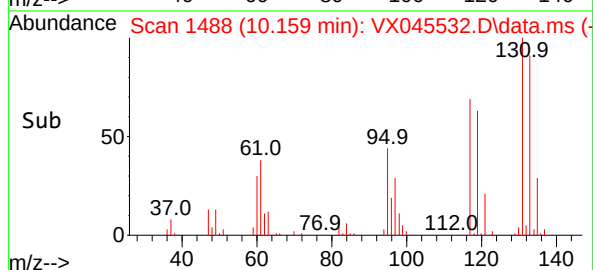
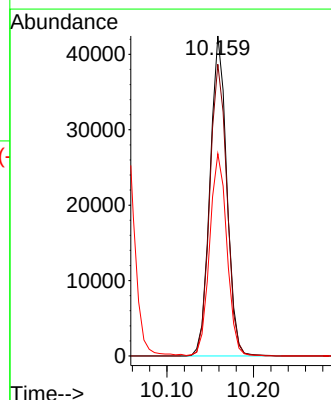
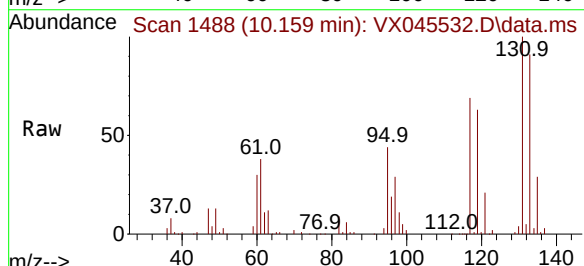
Tgt Ion:131 Resp: 57096

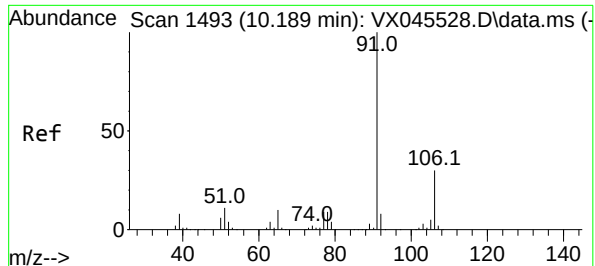
Ion Ratio Lower Upper

131 100

133 93.6 47.5 142.5

119 65.0 32.9 98.6





#67

Ethyl Benzene

Concen: 51.558 ug/l

RT: 10.189 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVXX040225

Tgt Ion: 91 Resp: 30074

Ion Ratio Lower Upper

91 100

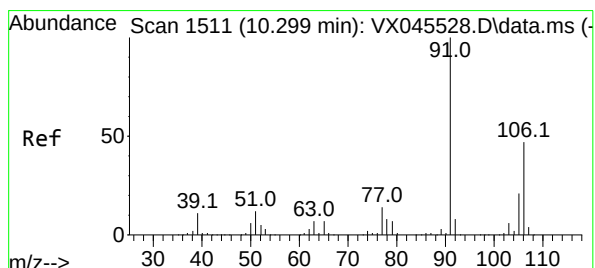
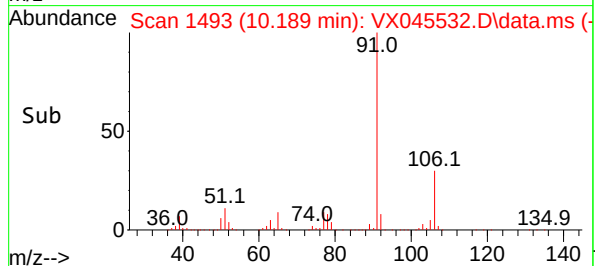
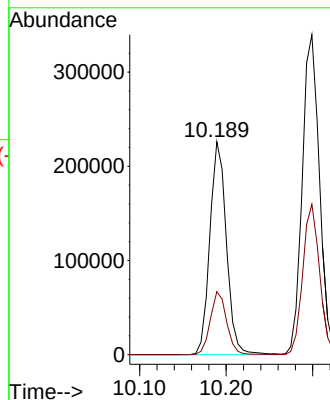
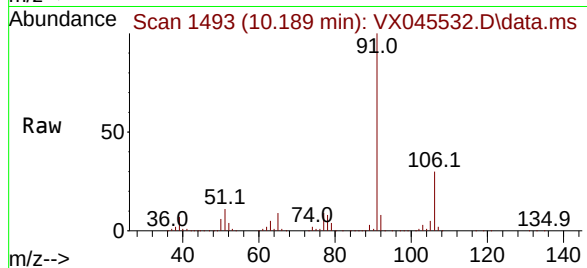
106 29.6 23.7 35.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#68

m/p-Xylenes

Concen: 102.728 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX045532.D

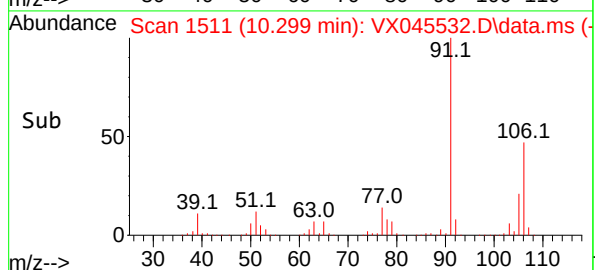
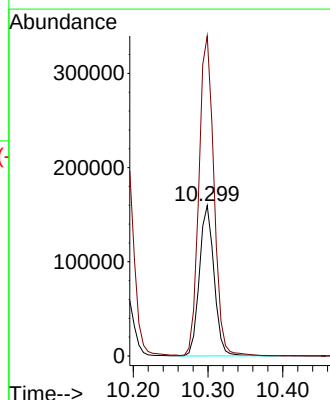
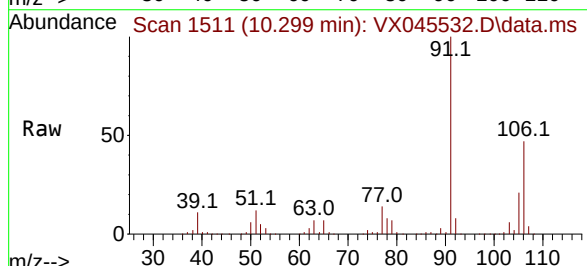
Acq: 01 Apr 2025 19:48

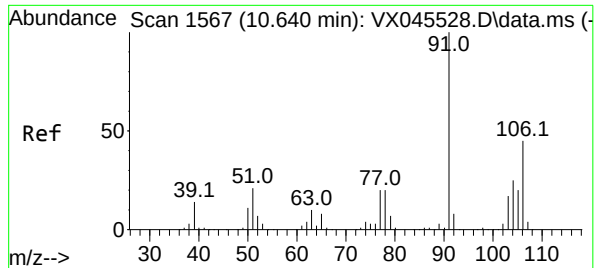
Tgt Ion:106 Resp: 217943

Ion Ratio Lower Upper

106 100

91 217.6 172.6 258.8





#69

o-Xylene

Concen: 51.650 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion:106 Resp: 10794

Ion Ratio Lower Upper

106 100

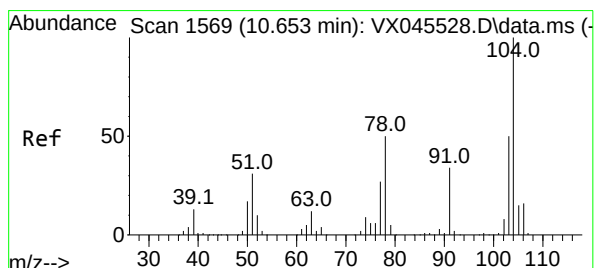
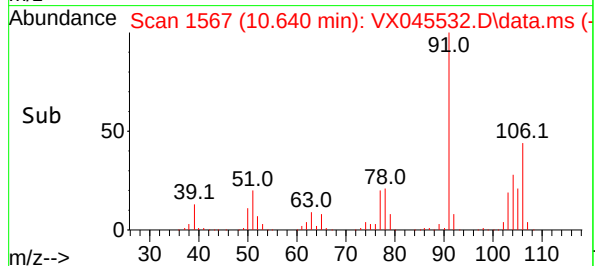
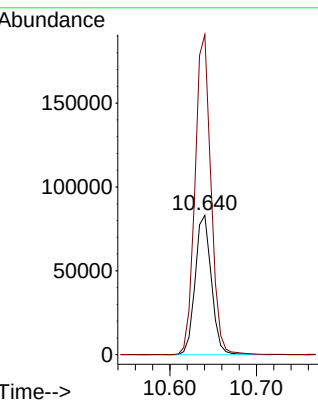
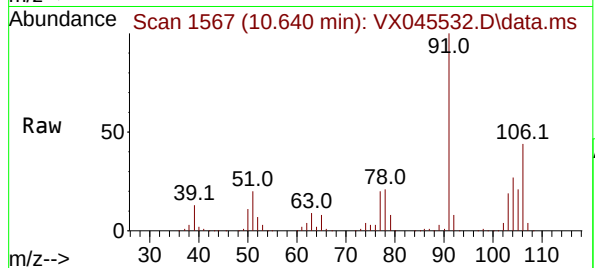
91 226.8 113.6 340.6

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#70

Styrene

Concen: 52.624 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

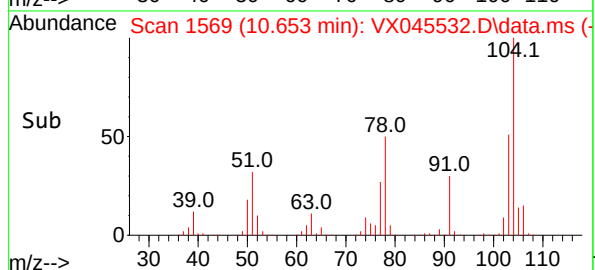
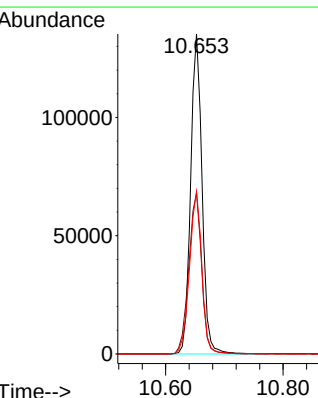
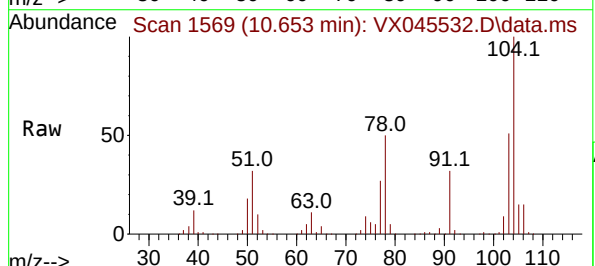
Tgt Ion:104 Resp: 181524

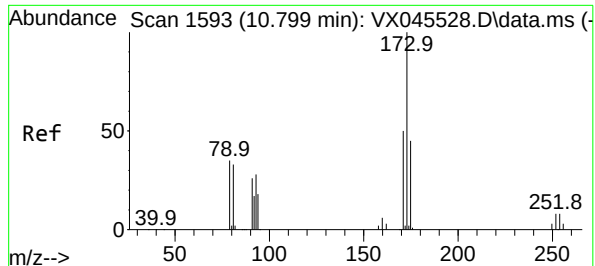
Ion Ratio Lower Upper

104 100

78 57.0 45.4 68.2

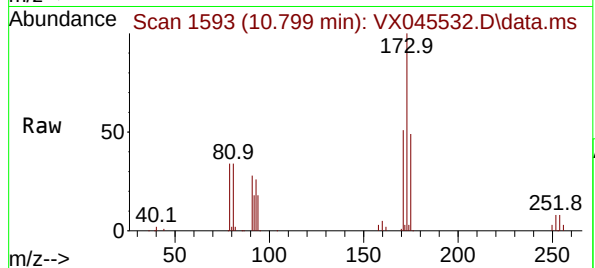
103 55.2 43.8 65.8





#71
Bromoform
Concen: 52.694 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

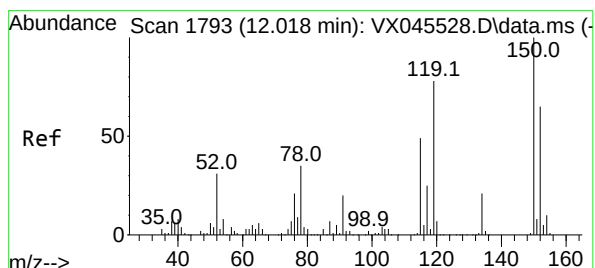
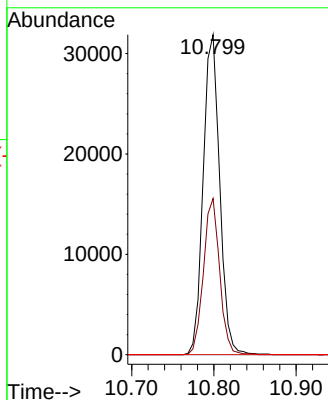
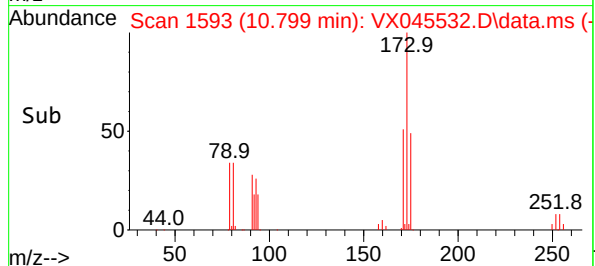
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



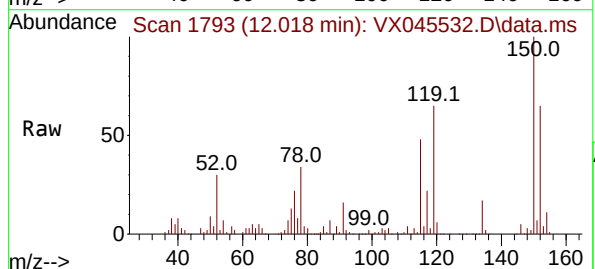
Tgt Ion:173 Resp: 44489
Ion Ratio Lower Upper
173 100
175 47.8 23.4 70.2
254 0.0 0.0 0.0

Manual Integrations
APPROVED

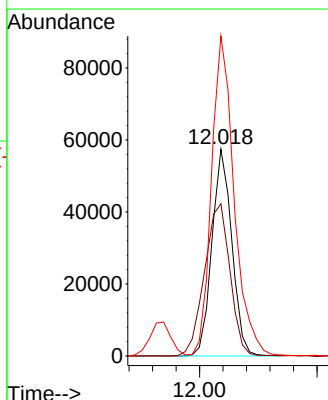
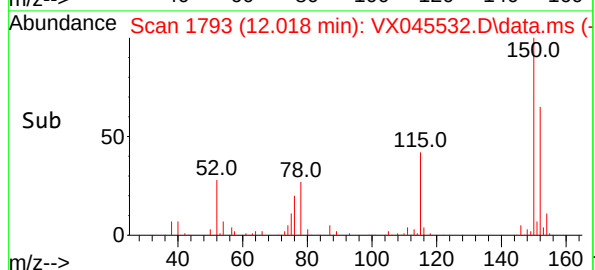
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025

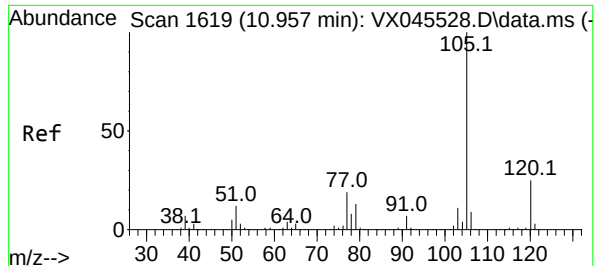


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48



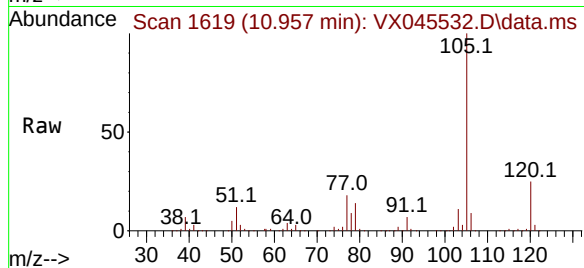
Tgt Ion:152 Resp: 67633
Ion Ratio Lower Upper
152 100
115 94.2 46.9 140.7
150 175.4 0.0 349.4





#73
Isopropylbenzene
Concen: 52.794 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

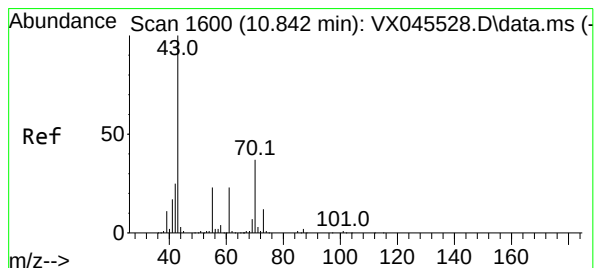
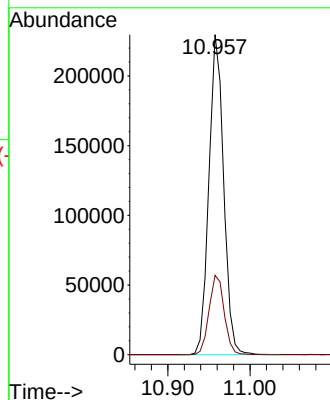
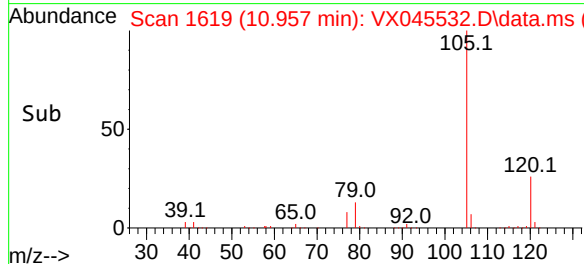
Instrument :
MSVOA_X
ClientSampleId :
ICVX040225



Tgt Ion: 105 Resp: 286010
Ion Ratio Lower Upper
105 100
120 25.5 12.7 38.0

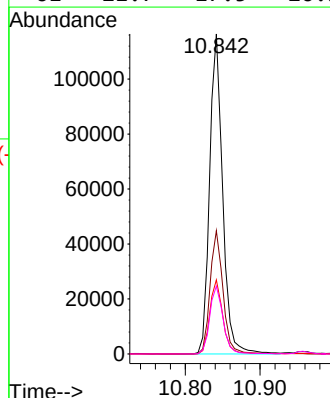
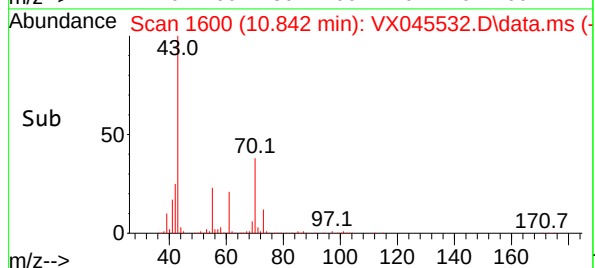
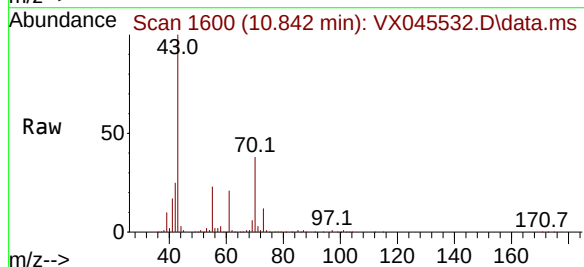
Manual Integrations
APPROVED

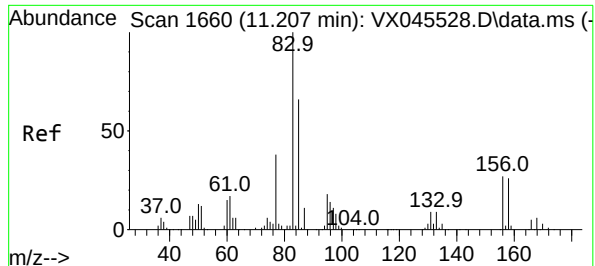
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#74
N-ethyl acetate
Concen: 54.387 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 43 Resp: 140941
Ion Ratio Lower Upper
43 100
70 38.2 30.1 45.1
55 23.3 18.3 27.5
61 21.7 17.5 26.3





#75

1,1,2,2-Tetrachloroethane

Concen: 48.608 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

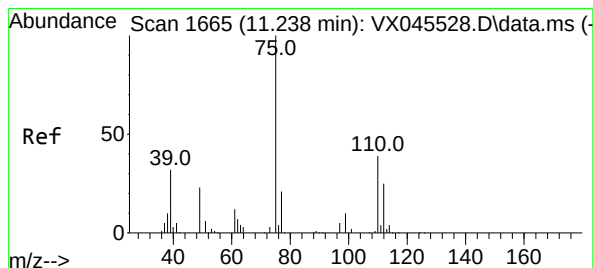
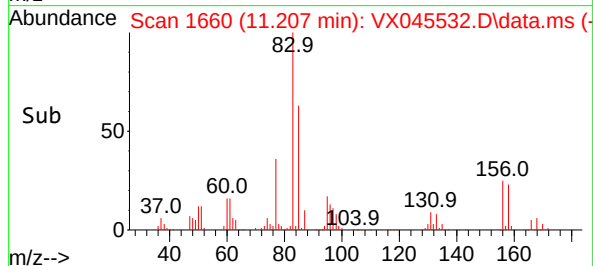
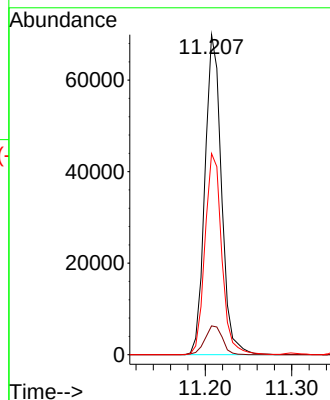
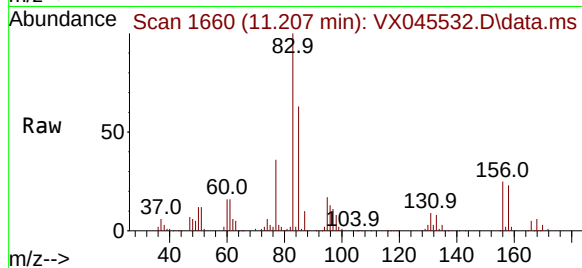
Tgt Ion:	83	Resp:	9250
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.7	14.1
85	63.9	32.4	97.2

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#76

1,2,3-Trichloropropane

Concen: 49.741 ug/l m

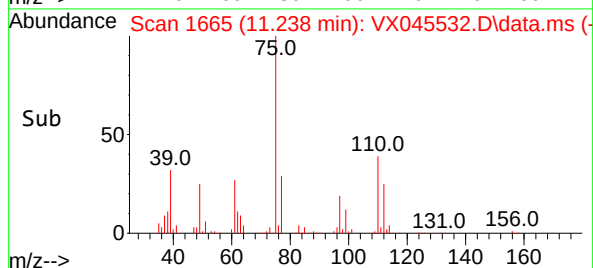
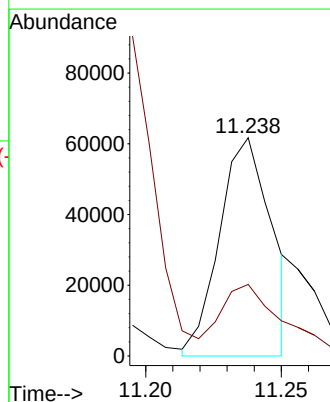
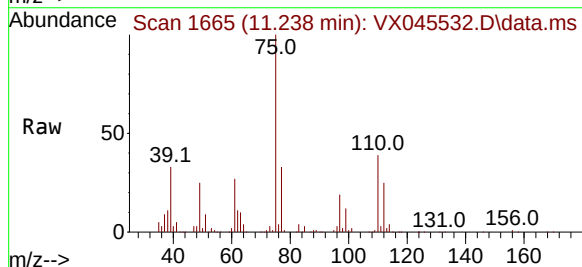
RT: 11.238 min Scan# 1665

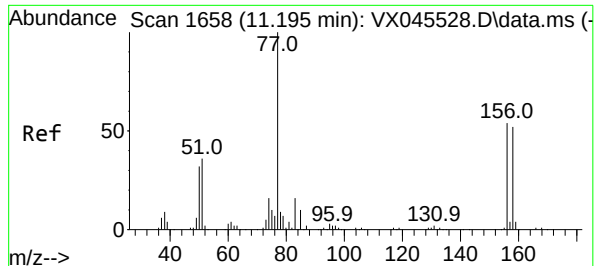
Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

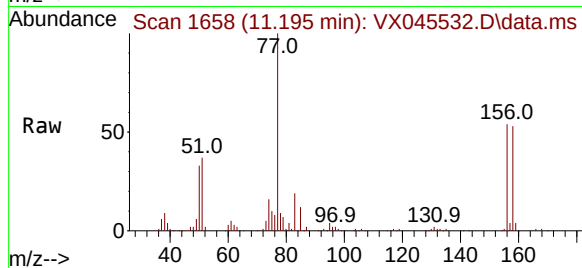
Tgt Ion:	75	Resp:	82060
Ion	Ratio	Lower	Upper
75	100		
77	40.0	20.0	59.9





#77
Bromobenzene
Concen: 50.525 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

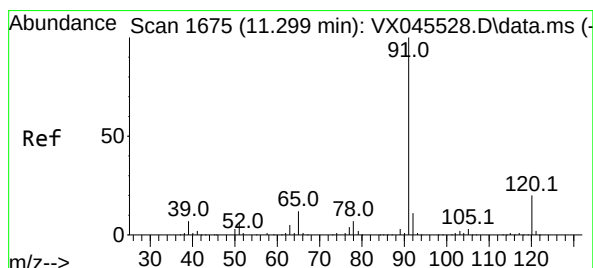
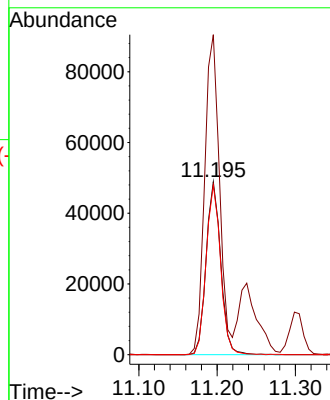
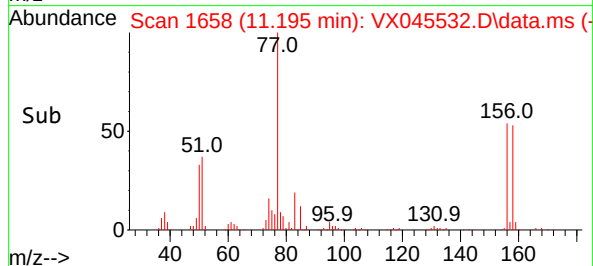
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



Tgt Ion: 156 Resp: 63244
Ion Ratio Lower Upper
156 100
77 188.0 92.6 277.8
158 97.5 48.1 144.4

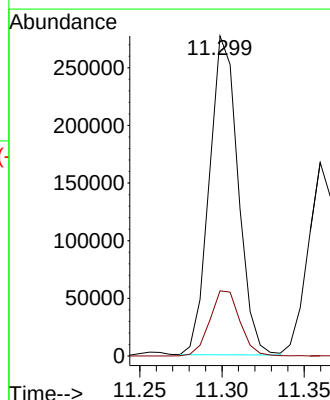
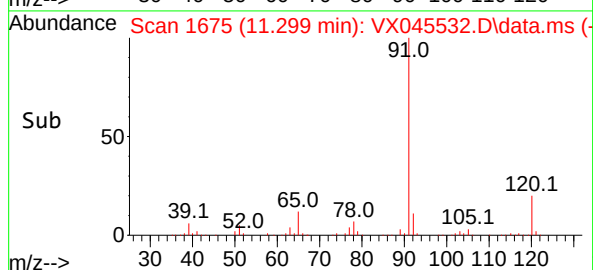
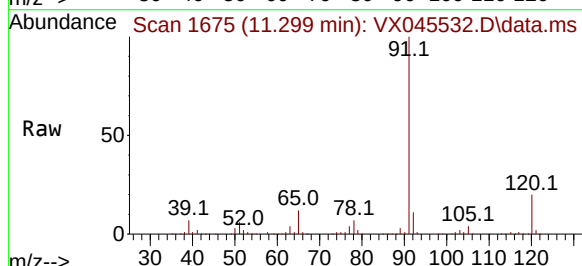
Manual Integrations
APPROVED

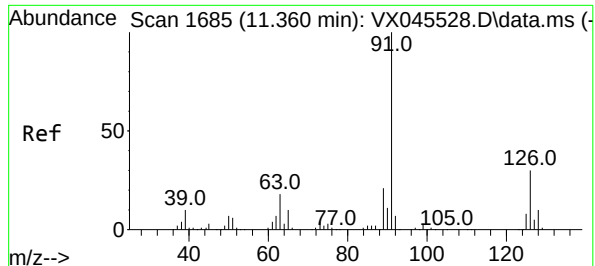
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#78
n-propylbenzene
Concen: 53.967 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 336753
Ion Ratio Lower Upper
91 100
120 21.4 10.8 32.3





#79

2-Chlorotoluene

Concen: 51.057 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVVX040225

Tgt Ion: 91 Resp: 20367

Ion Ratio Lower Upper

91 100

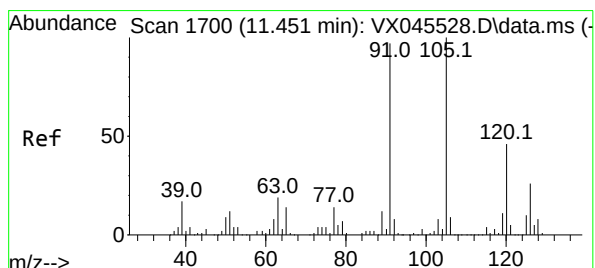
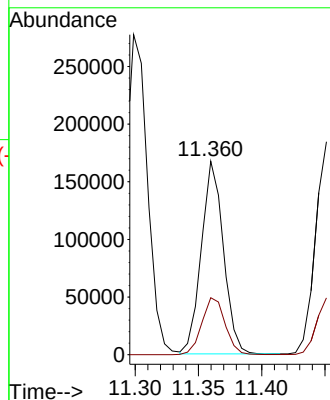
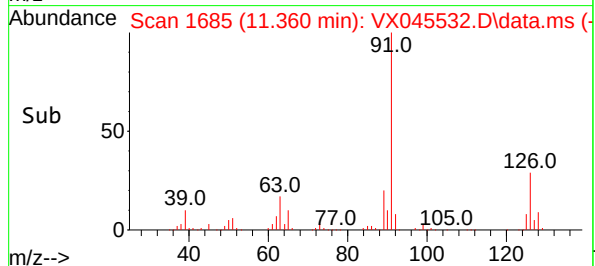
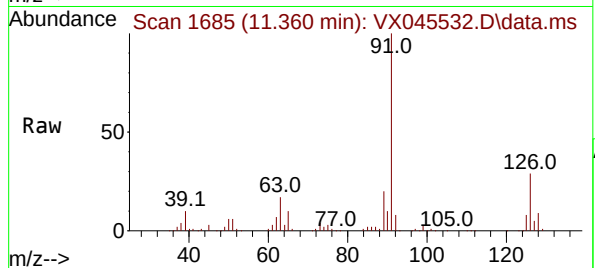
126 31.2 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#80

1,3,5-Trimethylbenzene

Concen: 53.534 ug/l

RT: 11.445 min Scan# 1699

Delta R.T. -0.006 min

Lab File: VX045532.D

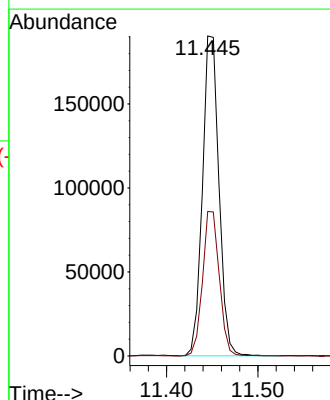
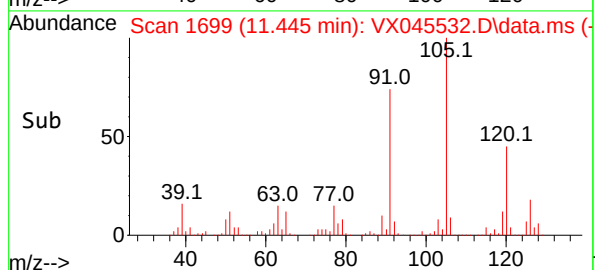
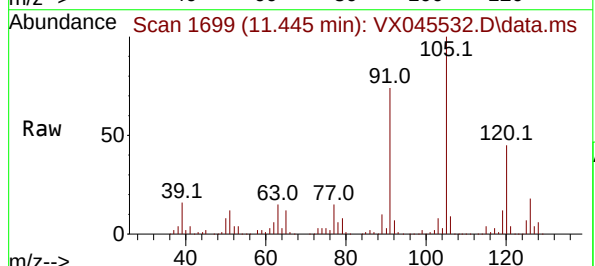
Acq: 01 Apr 2025 19:48

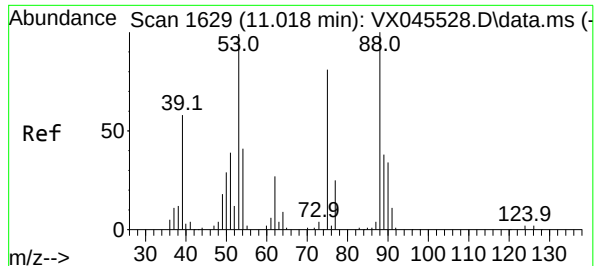
Tgt Ion:105 Resp: 239822

Ion Ratio Lower Upper

105 100

120 45.8 23.0 69.0





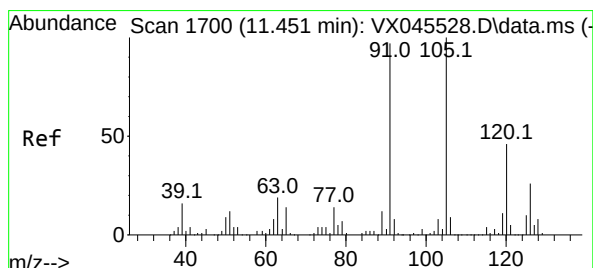
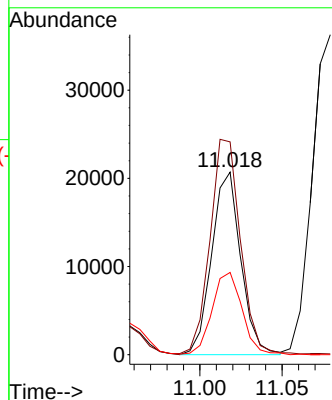
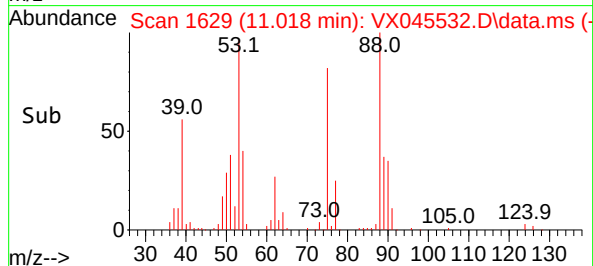
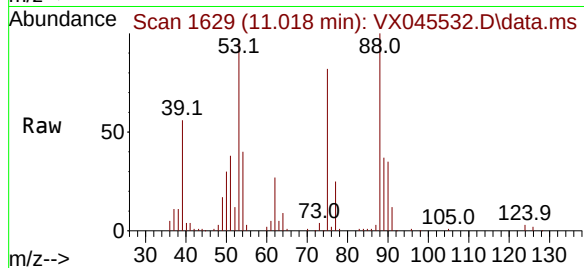
#81
trans-1,4-Dichloro-2-butene
Concen: 52.482 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVX040225

Tgt Ion: 75 Resp: 2551
Ion Ratio Lower Upper
75 100
53 124.4 101.8 152.6
89 46.4 37.2 55.8

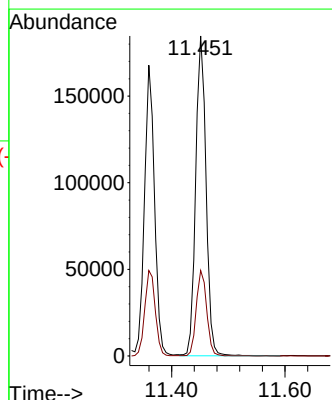
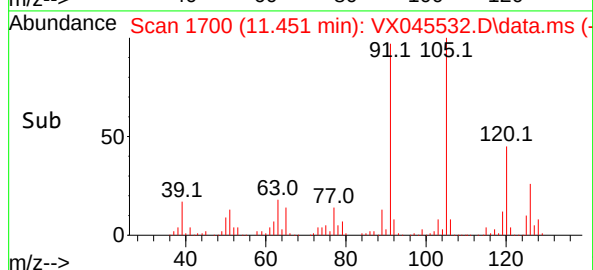
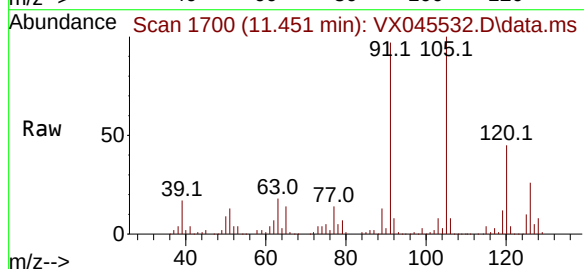
Manual Integrations
APPROVED

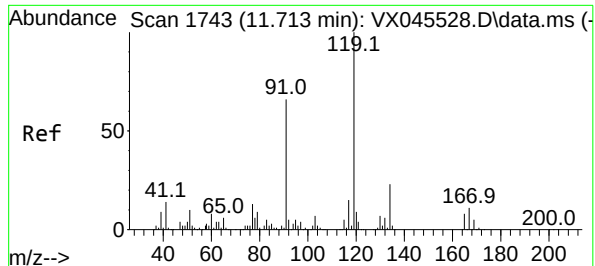
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#82
4-Chlorotoluene
Concen: 52.422 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 91 Resp: 233159
Ion Ratio Lower Upper
91 100
126 26.8 13.3 39.9





#83

tert-Butylbenzene

Concen: 53.274 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVXX040225

Tgt Ion:119 Resp: 236270

Ion Ratio Lower Upper

119 100

91 64.8 32.4 97.2

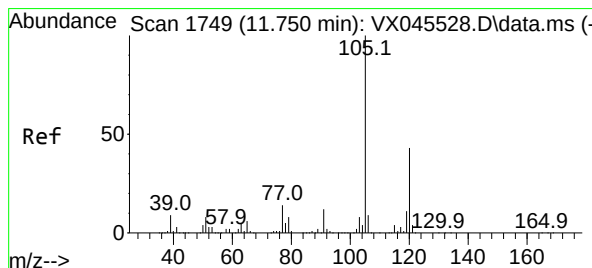
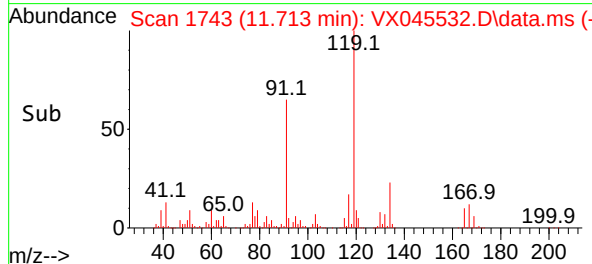
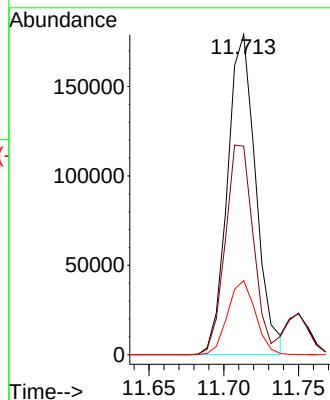
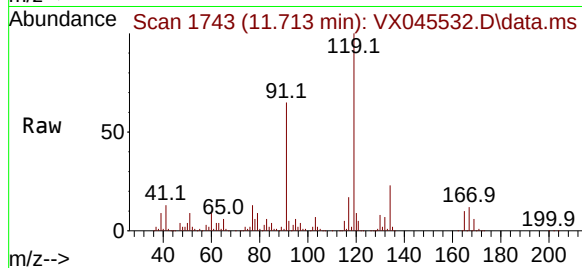
134 22.6 11.5 34.5

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#84

1,2,4-Trimethylbenzene

Concen: 52.990 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX045532.D

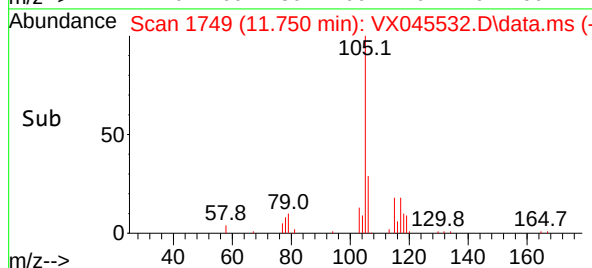
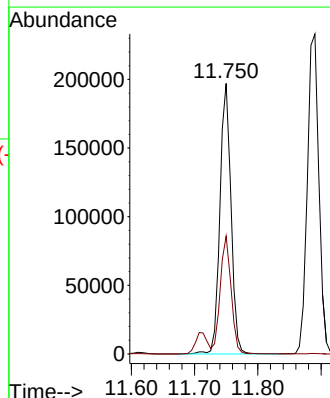
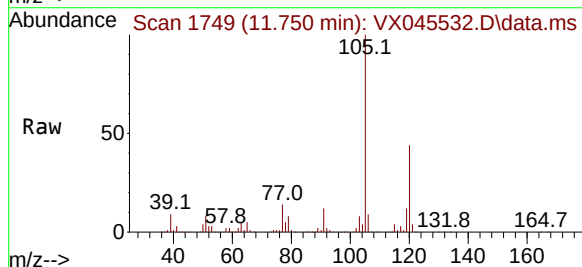
Acq: 01 Apr 2025 19:48

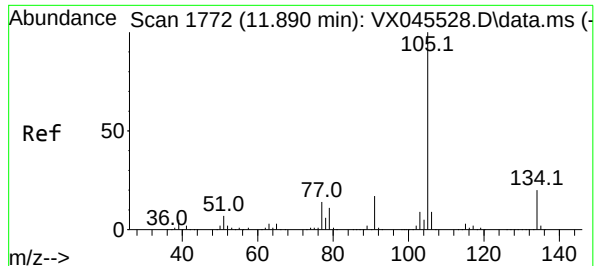
Tgt Ion:105 Resp: 238257

Ion Ratio Lower Upper

105 100

120 42.8 21.4 64.3





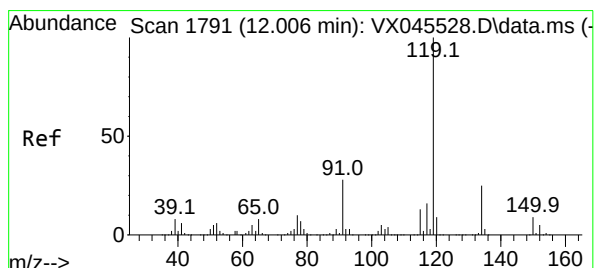
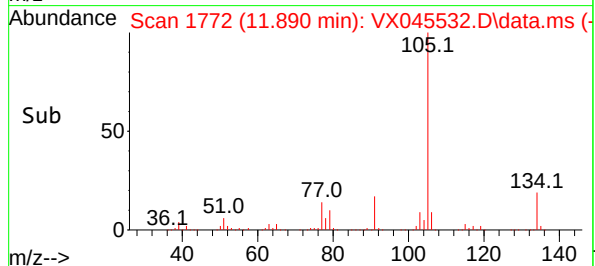
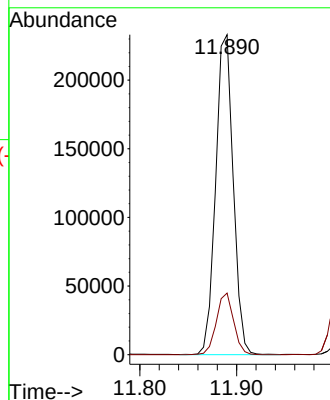
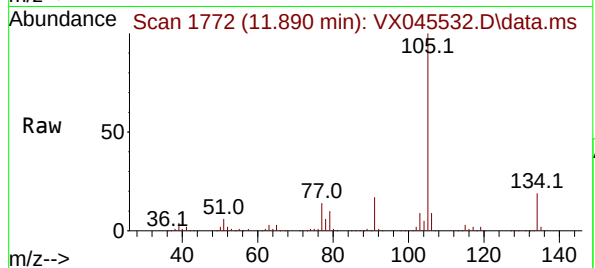
#85
sec-Butylbenzene
Concen: 53.903 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Tgt Ion:105 Resp: 29363
Ion Ratio Lower Upper
105 100
134 18.9 9.6 28.6

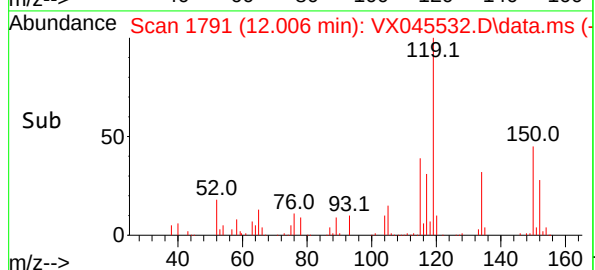
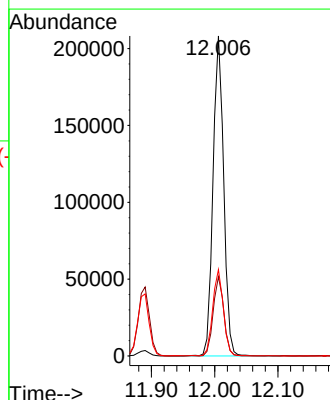
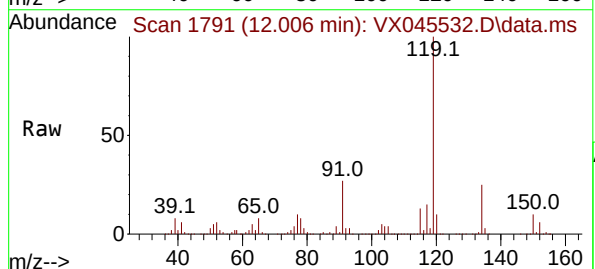
Manual Integrations
APPROVED

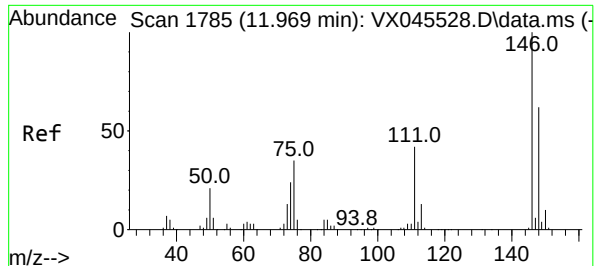
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#86
p-Isopropyltoluene
Concen: 54.337 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:119 Resp: 244031
Ion Ratio Lower Upper
119 100
134 24.8 12.6 37.8
91 27.0 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 50.521 ug/l

RT: 11.963 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVX040225

Tgt Ion:146 Resp: 11511

Ion Ratio Lower Upper

146 100

111 44.3 22.2 66.6

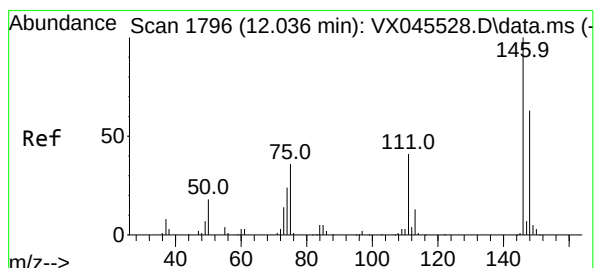
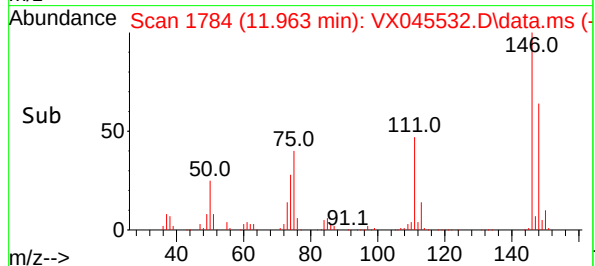
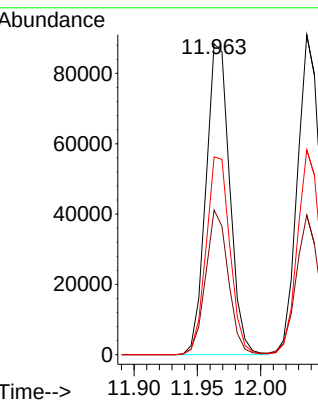
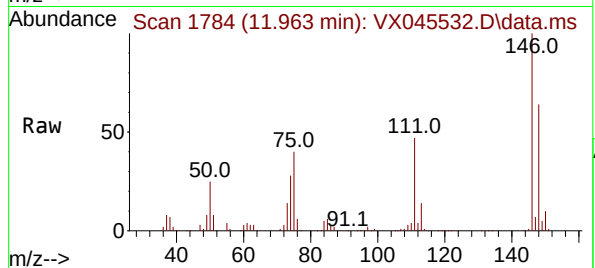
148 63.9 31.9 95.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#88

1,4-Dichlorobenzene

Concen: 49.117 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

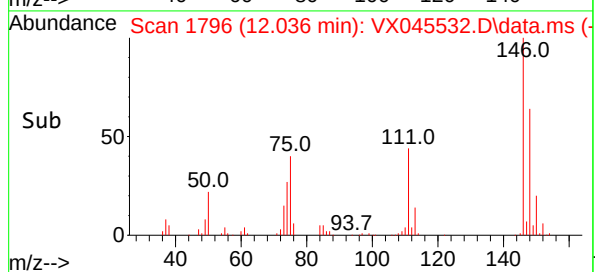
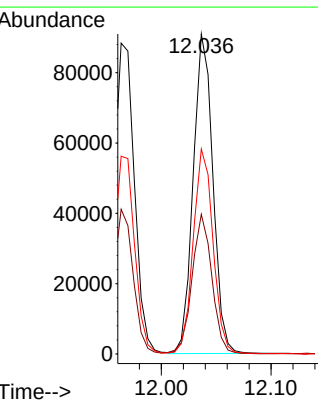
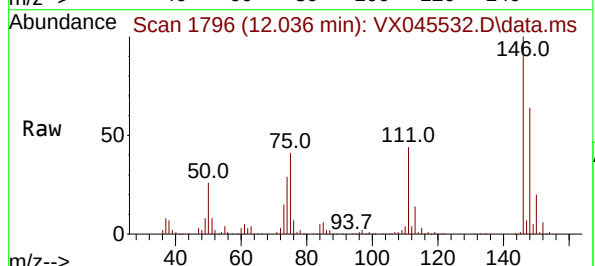
Tgt Ion:146 Resp: 113458

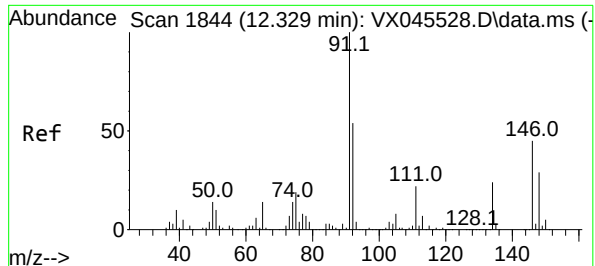
Ion Ratio Lower Upper

146 100

111 44.1 20.9 62.8

148 64.5 31.5 94.5





#89

n-Butylbenzene

Concen: 55.189 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

ICVX040225

Tgt Ion: 91 Resp: 21493

Ion Ratio Lower Upper

91 100

92 53.1 26.9 80.6

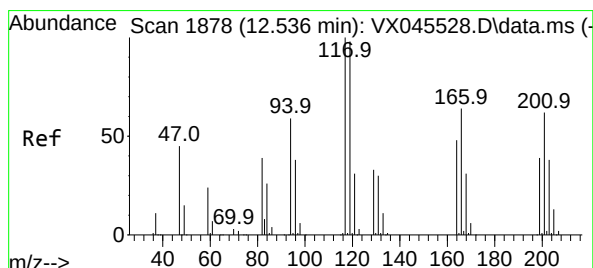
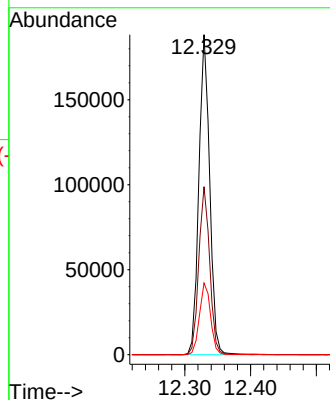
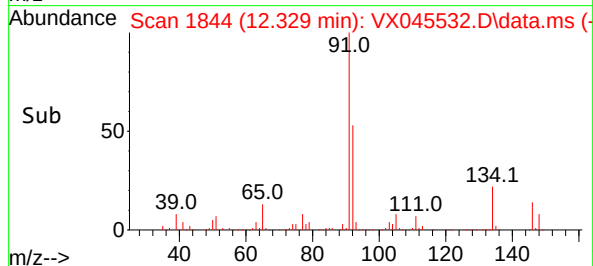
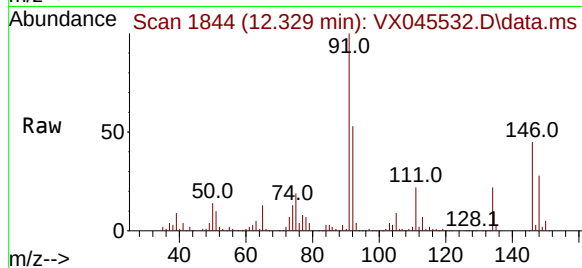
134 23.0 11.9 35.7

Manual Integrations

APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#90

Hexachloroethane

Concen: 54.066 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX045532.D

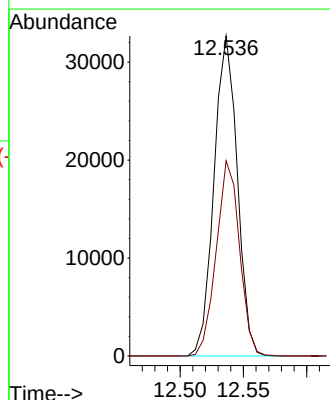
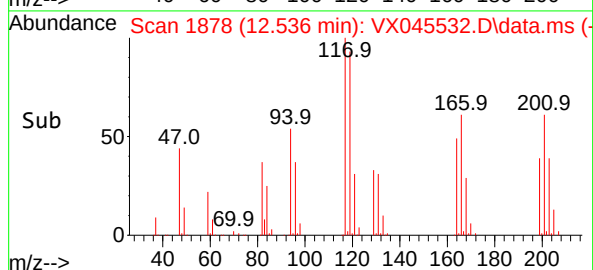
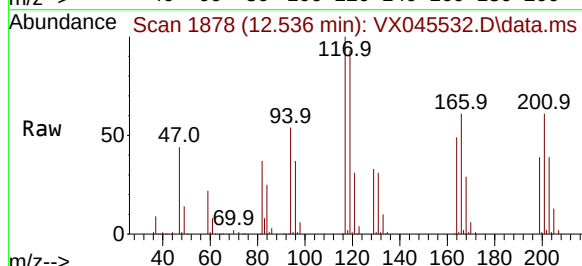
Acq: 01 Apr 2025 19:48

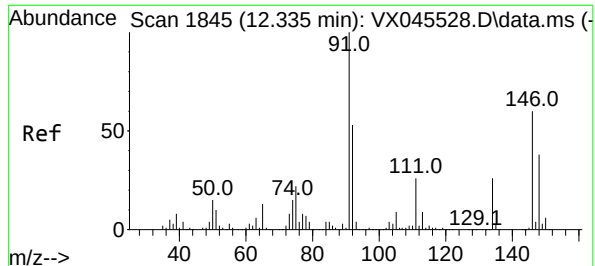
Tgt Ion:117 Resp: 41729

Ion Ratio Lower Upper

117 100

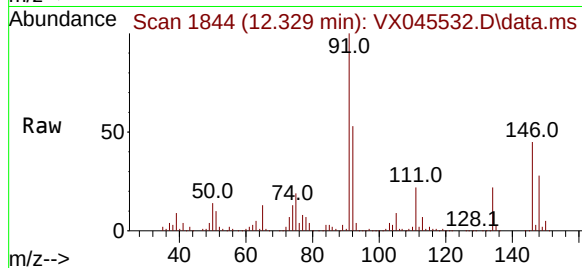
201 61.0 31.2 93.6





#91
1,2-Dichlorobenzene
Concen: 49.938 ug/l
RT: 12.329 min Scan# 1845
Delta R.T. -0.006 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

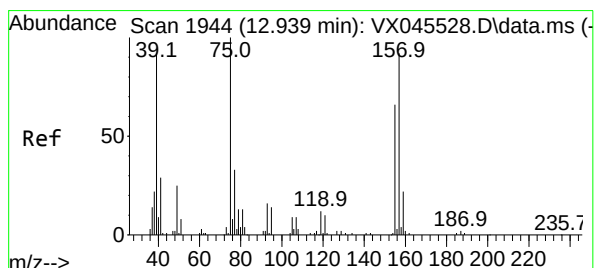
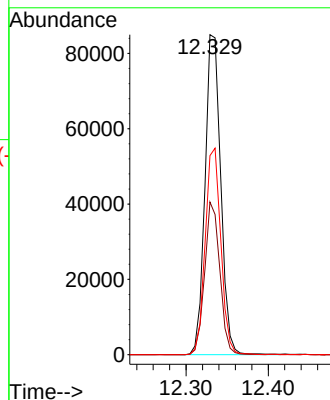
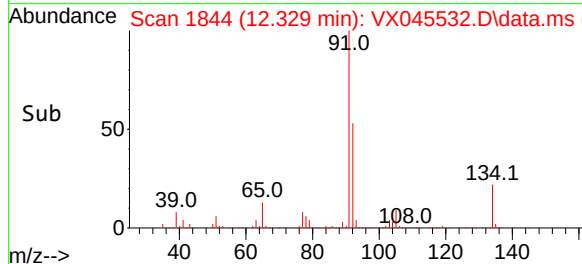
Instrument :
MSVOA_X
ClientSampleId :
ICVX040225



Tgt Ion:146 Resp: 113120
Ion Ratio Lower Upper
146 100
111 45.9 22.9 68.8
148 64.1 31.9 95.5

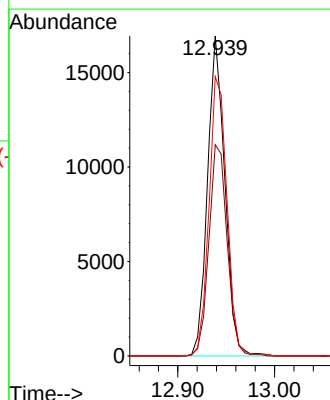
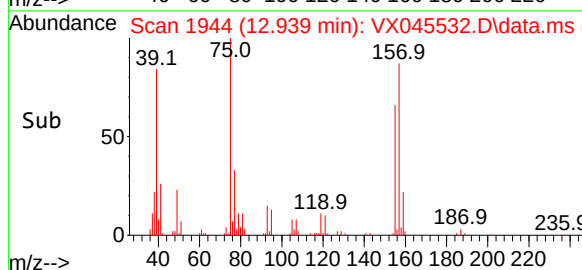
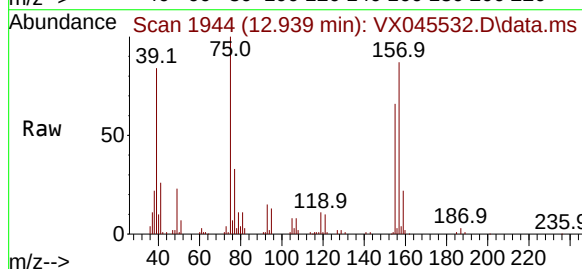
Manual Integrations
APPROVED

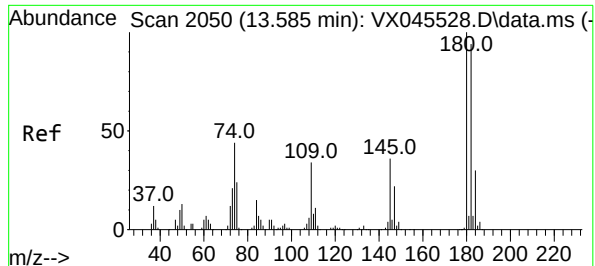
Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.226 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion: 75 Resp: 21184
Ion Ratio Lower Upper
75 100
155 69.4 34.9 104.7
157 90.2 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 51.935 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

Instrument :

MSVOA_X

ClientSampleId :

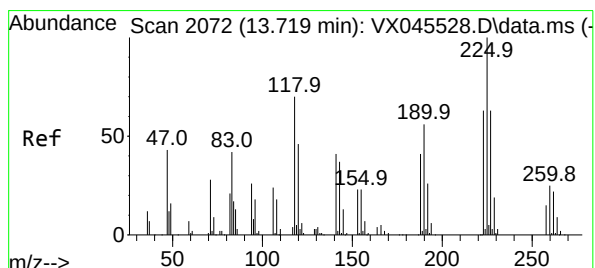
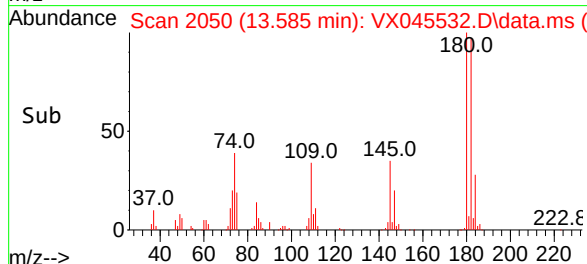
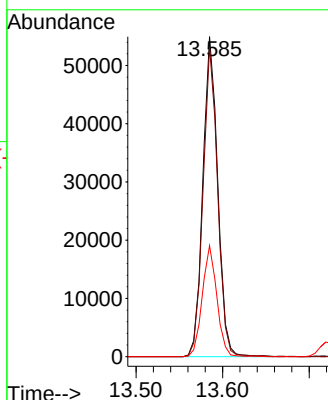
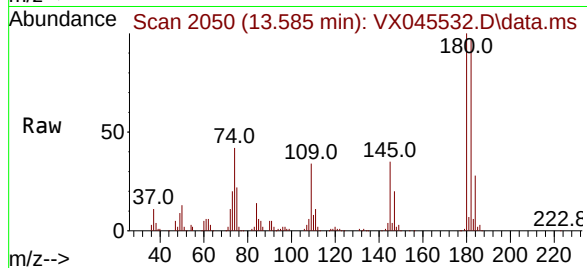
ICVVX040225

Tgt Ion:180	Resp: 6548
Ion Ratio	Lower Upper
180 100	
182 94.5	47.9 143.6
145 34.1	17.9 53.8

Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025

Supervised By :Mahesh Dadoda 04/02/2025



#94

Hexachlorobutadiene

Concen: 49.961 ug/l

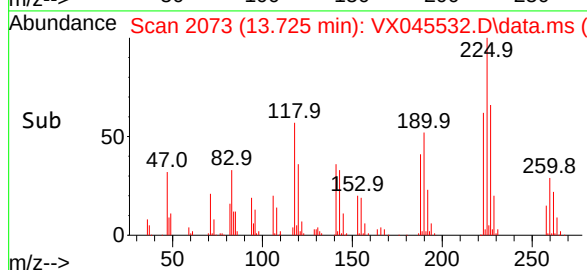
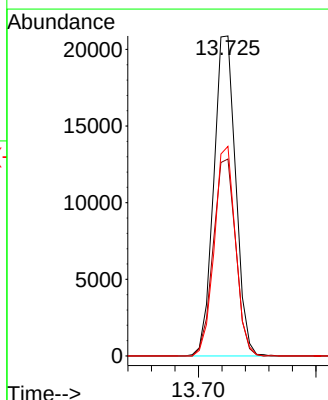
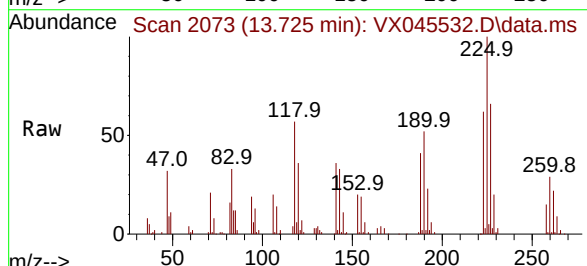
RT: 13.725 min Scan# 2073

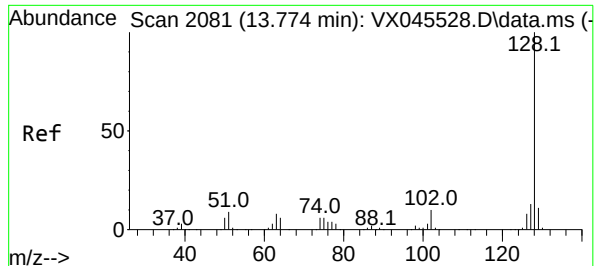
Delta R.T. 0.006 min

Lab File: VX045532.D

Acq: 01 Apr 2025 19:48

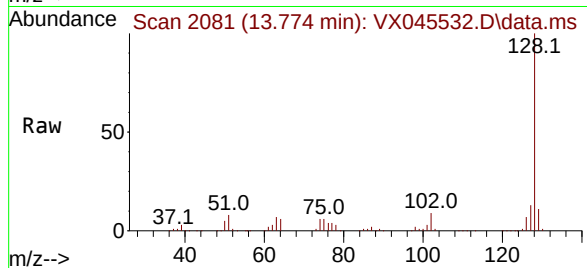
Tgt Ion:225	Resp: 27147
Ion Ratio	Lower Upper
225 100	
223 62.9	31.1 93.3
227 63.0	32.2 96.6





#95
Naphthalene
Concen: 52.765 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

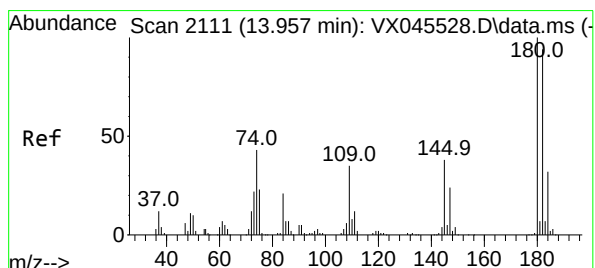
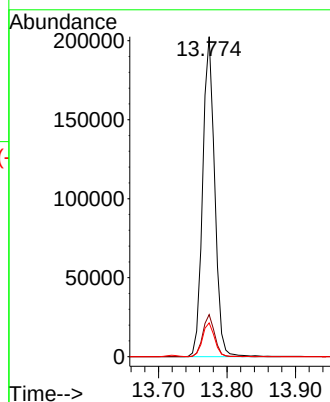
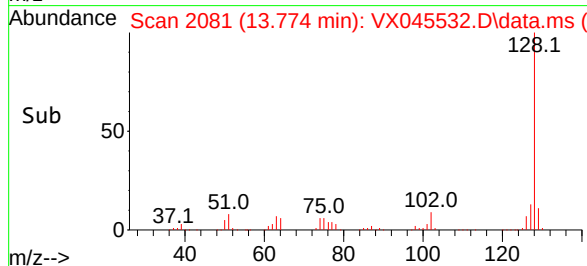
Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225



Tgt Ion:128 Resp: 247600
Ion Ratio Lower Upper
128 100
127 12.9 10.3 15.5
129 10.7 8.6 12.8

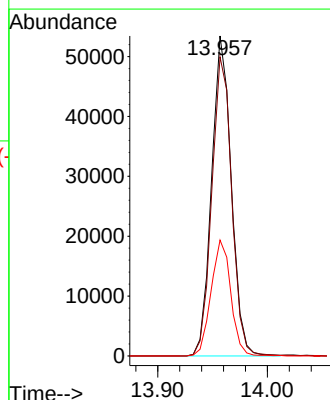
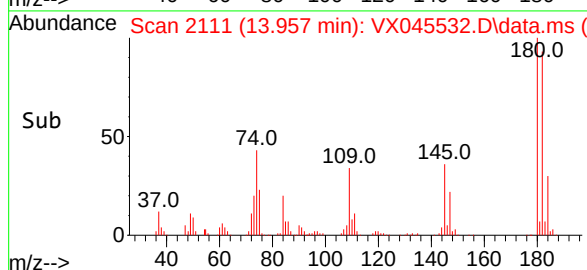
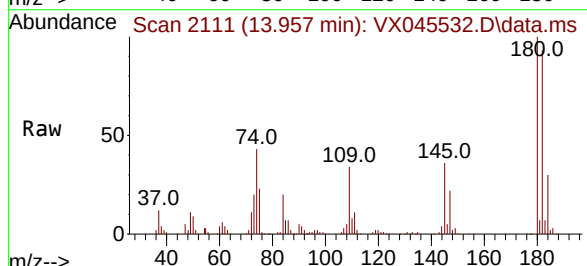
Manual Integrations
APPROVED

Reviewed By :Amit Patel 04/02/2025
Supervised By :Mahesh Dadoda 04/02/2025



#96
1,2,3-Trichlorobenzene
Concen: 50.396 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045532.D
Acq: 01 Apr 2025 19:48

Tgt Ion:180 Resp: 66542
Ion Ratio Lower Upper
180 100
182 94.8 47.3 141.8
145 36.4 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	0.748	0.784	-4.8	97	0.00
3 P	Chloromethane	0.768	0.743	3.3	96	0.00
4 C	Vinyl Chloride	0.703	0.686	2.4#	97	0.00
5 T	Bromomethane	0.333	0.313	6.0	96	0.00
6 T	Chloroethane	0.373	0.385	-3.2	98	0.00
7 T	Trichlorofluoromethane	1.048	1.056	-0.8	99	0.00
8 T	Diethyl Ether	0.352	0.347	1.4	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.608	1.0	99	0.00
10 T	Methyl Iodide	0.766	0.745	2.7	95	0.00
11 T	Tert butyl alcohol	0.123	0.121	1.6	97	0.00
12 CM	1,1-Dichloroethene	0.600	0.597	0.5#	100	0.00
13 T	Acrolein	0.169	0.161	4.7	98	0.00
14 T	Allyl chloride	1.139	1.151	-1.1	100	0.00
15 T	Acrylonitrile	0.388	0.385	0.8	96	0.00
16 T	Acetone	0.375	0.363	3.2	98	0.00
17 T	Carbon Disulfide	1.483	1.544	-4.1	101	0.00
18 T	Methyl Acetate	0.864	0.843	2.4	100	0.00
19 T	Methyl tert-butyl Ether	2.100	2.140	-1.9	102	0.00
20 T	Methylene Chloride	0.703	0.690	1.8	99	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.611	0.3	99	0.00
22 T	Diisopropyl ether	2.243	2.284	-1.8	101	0.00
23 T	Vinyl Acetate	1.938	2.074	-7.0	101	0.00
24 P	1,1-Dichloroethane	1.269	1.261	0.6	101	0.00
25 T	2-Butanone	0.550	0.560	-1.8	97	0.00
26 T	2,2-Dichloropropane	0.820	0.853	-4.0	102	0.00
27 T	cis-1,2-Dichloroethene	0.747	0.733	1.9	99	0.00
28 T	Bromochloromethane	0.613	0.594	3.1	101	0.00
29 T	Tetrahydrofuran	0.356	0.356	0.0	97	0.00
30 C	Chloroform	1.306	1.295	0.8#	100	0.00
31 T	Cyclohexane	1.122	1.112	0.9	100	0.00
32 T	1,1,1-Trichloroethane	1.105	1.112	-0.6	102	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.920	-0.7	107	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	104	0.00
35 S	Dibromofluoromethane	0.355	0.349	1.7	105	0.00
36 T	1,1-Dichloropropene	0.479	0.480	-0.2	103	0.00
37 T	Ethyl Acetate	0.604	0.601	0.5	100	0.00
38 T	Carbon Tetrachloride	0.518	0.525	-1.4	102	0.00
39 T	Methylcyclohexane	0.587	0.589	-0.3	98	0.00
40 TM	Benzene	1.463	1.440	1.6	101	0.00
41 T	Methacrylonitrile	0.318	0.338	-6.3	100	0.00
42 TM	1,2-Dichloroethane	0.604	0.591	2.2	99	0.00
43 T	Isopropyl Acetate	0.915	0.943	-3.1	100	0.00
44 TM	Trichloroethene	0.348	0.331	4.9	98	0.00
45 C	1,2-Dichloropropane	0.365	0.361	1.1#	100	0.00
46 T	Dibromomethane	0.280	0.272	2.9	97	0.00
47 T	Bromodichloromethane	0.560	0.551	1.6	100	0.00
48 T	Methyl methacrylate	0.472	0.487	-3.2	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.008	11.1	92	0.00
50 S	Toluene-d8	1.238	1.242	-0.3	106	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.619	-2.1	97	0.00
52 CM	Toluene	0.885	0.867	2.0#	99	0.00
53 T	t-1,3-Dichloropropene	0.467	0.502	-7.5	103	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.567	-7.8	104	0.00
55 T	1,1,2-Trichloroethane	0.353	0.346	2.0	100	0.00
56 T	Ethyl methacrylate	0.546	0.586	-7.3	102	0.00
57 T	1,3-Dichloropropane	0.614	0.613	0.2	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.287	-4.0	100	0.00
59 T	2-Hexanone	0.449	0.452	-0.7	96	0.00
60 T	Dibromochloromethane	0.385	0.392	-1.8	99	0.00
61 T	1,2-Dibromoethane	0.357	0.362	-1.4	101	0.00
62 S	4-Bromofluorobenzene	0.451	0.460	-2.0	105	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.00
64 T	Tetrachloroethene	0.353	0.334	5.4	97	0.00
65 PM	Chlorobenzene	1.068	1.073	-0.5	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.375	-1.1	102	0.00
67 C	Ethyl Benzene	1.914	1.973	-3.1#	100	0.00
68 T	m/p-Xylenes	0.696	0.715	-2.7	100	0.00
69 T	o-Xylene	0.686	0.708	-3.2	100	0.00
70 T	Styrene	1.132	1.191	-5.2	99	0.00
71 P	Bromoform	0.277	0.292	-5.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00
73 T	Isopropylbenzene	4.005	4.229	-5.6	99	0.00
74 T	N-amyl acetate	1.916	2.084	-8.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.368	2.8	97	0.00
76 T	1,2,3-Trichloropropane	1.220	1.213	0.6	97	0.00
77 T	Bromobenzene	0.925	0.935	-1.1	98	0.00
78 T	n-propylbenzene	4.613	4.979	-7.9	100	0.00
79 T	2-Chlorotoluene	2.949	3.012	-2.1	100	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.546	-7.1	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.377	-5.0	100	0.00
82 T	4-Chlorotoluene	3.288	3.447	-4.8	98	0.00
83 T	tert-Butylbenzene	3.279	3.494	-6.6	100	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.523	-6.0	98	0.00
85 T	sec-Butylbenzene	4.027	4.342	-7.8	99	0.00
86 T	p-Isopropyltoluene	3.320	3.608	-8.7	101	0.00
87 T	1,3-Dichlorobenzene	1.684	1.702	-1.1	98	0.00
88 T	1,4-Dichlorobenzene	1.708	1.678	1.8	97	0.00
89 T	n-Butylbenzene	2.879	3.178	-10.4	99	0.00
90 T	Hexachloroethane	0.571	0.617	-8.1	102	0.00
91 T	1,2-Dichlorobenzene	1.675	1.673	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.313	-6.5	98	0.00
93 T	1,2,4-Trichlorobenzene	0.932	0.968	-3.9	101	0.00
94 T	Hexachlorobutadiene	0.402	0.401	0.2	98	0.00
95 T	Naphthalene	3.469	3.661	-5.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	0.976	0.984	-0.8	97	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	101	0.00
2 T	Dichlorodifluoromethane	50.000	52.454	-4.9	97	0.00
3 P	Chloromethane	50.000	48.349	3.3	96	0.00
4 C	Vinyl Chloride	50.000	48.816	2.4#	97	0.00
5 T	Bromomethane	50.000	46.991	6.0	96	0.00
6 T	Chloroethane	50.000	51.586	-3.2	98	0.00
7 T	Trichlorofluoromethane	50.000	50.354	-0.7	99	0.00
8 T	Diethyl Ether	50.000	49.228	1.5	99	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.528	0.9	99	0.00
10 T	Methyl Iodide	50.000	48.626	2.7	95	0.00
11 T	Tert butyl alcohol	250.000	246.612	1.4	97	0.00
12 CM	1,1-Dichloroethene	50.000	49.726	0.5#	100	0.00
13 T	Acrolein	250.000	238.141	4.7	98	0.00
14 T	Allyl chloride	50.000	50.541	-1.1	100	0.00
15 T	Acrylonitrile	250.000	248.351	0.7	96	0.00
16 T	Acetone	250.000	241.904	3.2	98	0.00
17 T	Carbon Disulfide	50.000	52.057	-4.1	101	0.00
18 T	Methyl Acetate	50.000	48.742	2.5	100	0.00
19 T	Methyl tert-butyl Ether	50.000	50.950	-1.9	102	0.00
20 T	Methylene Chloride	50.000	49.055	1.9	99	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.800	0.4	99	0.00
22 T	Diisopropyl ether	50.000	50.895	-1.8	101	0.00
23 T	Vinyl Acetate	250.000	267.449	-7.0	101	0.00
24 P	1,1-Dichloroethane	50.000	49.677	0.6	101	0.00
25 T	2-Butanone	250.000	254.882	-2.0	97	0.00
26 T	2,2-Dichloropropane	50.000	52.020	-4.0	102	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.049	1.9	99	0.00
28 T	Bromochloromethane	50.000	48.403	3.2	101	0.00
29 T	Tetrahydrofuran	250.000	249.473	0.2	97	0.00
30 C	Chloroform	50.000	49.614	0.8#	100	0.00
31 T	Cyclohexane	50.000	49.583	0.8	100	0.00
32 T	1,1,1-Trichloroethane	50.000	50.330	-0.7	102	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.329	-0.7	107	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	104	0.00
35 S	Dibromofluoromethane	50.000	49.256	1.5	105	0.00
36 T	1,1-Dichloropropene	50.000	50.088	-0.2	103	0.00
37 T	Ethyl Acetate	50.000	49.787	0.4	100	0.00
38 T	Carbon Tetrachloride	50.000	50.667	-1.3	102	0.00
39 T	Methylcyclohexane	50.000	50.124	-0.2	98	0.00
40 TM	Benzene	50.000	49.212	1.6	101	0.00
41 T	Methacrylonitrile	50.000	53.098	-6.2	100	0.00
42 TM	1,2-Dichloroethane	50.000	48.875	2.3	99	0.00
43 T	Isopropyl Acetate	50.000	51.539	-3.1	100	0.00
44 TM	Trichloroethene	50.000	47.643	4.7	98	0.00
45 C	1,2-Dichloropropane	50.000	49.521	1.0#	100	0.00
46 T	Dibromomethane	50.000	48.542	2.9	97	0.00
47 T	Bromodichloromethane	50.000	49.273	1.5	100	0.00
48 T	Methyl methacrylate	50.000	51.507	-3.0	100	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	955.327	4.5	92	0.00
50 S	Toluene-d8	50.000	50.160	-0.3	106	0.00
51 T	4-Methyl-2-Pentanone	250.000	254.994	-2.0	97	0.00
52 CM	Toluene	50.000	48.994	2.0#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	46.783	6.4	103	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.878	-7.8	104	0.00
55 T	1,1,2-Trichloroethane	50.000	49.007	2.0	100	0.00
56 T	Ethyl methacrylate	50.000	53.705	-7.4	102	0.00
57 T	1,3-Dichloropropane	50.000	49.869	0.3	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.201	-4.1	100	0.00
59 T	2-Hexanone	250.000	251.710	-0.7	96	0.00
60 T	Dibromochloromethane	50.000	50.983	-2.0	99	0.00
61 T	1,2-Dibromoethane	50.000	50.693	-1.4	101	0.00
62 S	4-Bromofluorobenzene	50.000	50.959	-1.9	105	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	101	0.00
64 T	Tetrachloroethene	50.000	47.239	5.5	97	0.00
65 PM	Chlorobenzene	50.000	50.207	-0.4	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	50.495	-1.0	102	0.00
67 C	Ethyl Benzene	50.000	51.558	-3.1#	100	0.00
68 T	m/p-Xylenes	100.000	102.728	-2.7	100	0.00
69 T	o-Xylene	50.000	51.650	-3.3	100	0.00
70 T	Styrene	50.000	52.624	-5.2	99	0.00
71 P	Bromoform	50.000	52.694	-5.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	98	0.00
73 T	Isopropylbenzene	50.000	52.794	-5.6	99	0.00
74 T	N-ethyl acetate	50.000	54.387	-8.8	100	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.608	2.8	97	0.00
76 T	1,2,3-Trichloropropane	50.000	49.741	0.5	97	0.00
77 T	Bromobenzene	50.000	50.525	-1.0	98	0.00
78 T	n-propylbenzene	50.000	53.967	-7.9	100	0.00
79 T	2-Chlorotoluene	50.000	51.057	-2.1	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	53.534	-7.1	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	52.482	-5.0	100	0.00
82 T	4-Chlorotoluene	50.000	52.422	-4.8	98	0.00
83 T	tert-Butylbenzene	50.000	53.274	-6.5	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.990	-6.0	98	0.00
85 T	sec-Butylbenzene	50.000	53.903	-7.8	99	0.00
86 T	p-Isopropyltoluene	50.000	54.337	-8.7	101	0.00
87 T	1,3-Dichlorobenzene	50.000	50.521	-1.0	98	0.00
88 T	1,4-Dichlorobenzene	50.000	49.117	1.8	97	0.00
89 T	n-Butylbenzene	50.000	55.189	-10.4	99	0.00
90 T	Hexachloroethane	50.000	54.066	-8.1	102	0.00
91 T	1,2-Dichlorobenzene	50.000	49.938	0.1	98	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.226	-6.5	98	0.00
93 T	1,2,4-Trichlorobenzene	50.000	51.935	-3.9	101	0.00
94 T	Hexachlorobutadiene	50.000	49.961	0.1	98	0.00
95 T	Naphthalene	50.000	52.765	-5.5	97	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045532.D
Acq On : 01 Apr 2025 19:48
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX040225

Quant Time: Apr 02 03:14:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	50.396	-0.8	97	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



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

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PARS02

Lab Code: CHEM Case No.: Q1739 SAS No.: Q1739 SDG No.: Q1739

Instrument ID: MSVOA_X Calibration Date/Time: 04/09/2025 10:35

Lab File ID: VX045664.D Init. Calib. Date(s): 04/01/2025 04/01/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 17:06 19:02

GC Column: DB-624UI ID: 0.18 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.703	0.690		-1.85	20
1,1-Dichloroethene	0.600	0.586		-2.33	20
2-Butanone	0.550	0.538		-2.18	20
Carbon Tetrachloride	0.518	0.553		6.76	20
Chloroform	1.306	1.317		0.84	20
Benzene	1.463	1.461		-0.14	20
1,2-Dichloroethane	0.604	0.626		3.64	20
Trichloroethene	0.348	0.351		0.86	20
Tetrachloroethene	0.353	0.373		5.67	20
Chlorobenzene	1.068	1.118	0.3	4.68	20
1,2-Dichloroethane-d4	0.914	0.945		3.39	20
Dibromofluoromethane	0.355	0.379		6.76	20
Toluene-d8	1.238	1.272		2.75	20
4-Bromofluorobenzene	0.451	0.501		11.09	20

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
 Data File : VX045664.D
 Acq On : 09 Apr 2025 10:35
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	98594	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	170453	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	147839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	71972	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	93178	51.679	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.360%			
35) Dibromofluoromethane	5.373	113	64676	53.479	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 106.960%			
50) Toluene-d8	8.641	98	216891	51.382	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 102.760%			
62) 4-Bromofluorobenzene	11.079	95	85383	55.532	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 111.060%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	80223	54.408	ug/l	98
3) Chloromethane	1.300	50	73364	48.432	ug/l	99
4) Vinyl Chloride	1.374	62	68070	49.103	ug/l	100
5) Bromomethane	1.593	94	31282	47.592	ug/l	97
6) Chloroethane	1.666	64	38924	52.923	ug/l	99
7) Trichlorofluoromethane	1.874	101	107491	51.999	ug/l	98
8) Diethyl Ether	2.130	74	34540	49.768	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	64030	52.860	ug/l	97
10) Methyl Iodide	2.441	142	75341	49.865	ug/l	98
11) Tert butyl alcohol	2.977	59	60760	250.751	ug/l	99
12) 1,1-Dichloroethene	2.306	96	57773	48.810	ug/l	98
13) Acrolein	2.233	56	71940	215.595	ug/l	98
14) Allyl chloride	2.654	41	114031	50.776	ug/l	100
15) Acrylonitrile	3.062	53	183477	239.873	ug/l	99
16) Acetone	2.380	43	172243	232.643	ug/l	99
17) Carbon Disulfide	2.501	76	135575	46.377	ug/l	100
18) Methyl Acetate	2.703	43	91155	53.475	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	212677	51.365	ug/l	99
20) Methylene Chloride	2.782	84	67547	48.733	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	60067	49.674	ug/l	98
22) Diisopropyl ether	3.757	45	226945	51.300	ug/l	98
23) Vinyl Acetate	3.715	43	988964	258.743	ug/l	100
24) 1,1-Dichloroethane	3.605	63	123311	49.288	ug/l	100
25) 2-Butanone	4.550	43	265392	244.882	ug/l	99
26) 2,2-Dichloropropane	4.465	77	94027	58.169	ug/l	100
27) cis-1,2-Dichloroethene	4.477	96	72325	49.093	ug/l	98
28) Bromochloromethane	4.885	49	55670	46.046	ug/l	100
29) Tetrahydrofuran	4.995	42	168691	240.083	ug/l	99
30) Chloroform	5.086	83	129858	50.443	ug/l	97
31) Cyclohexane	5.458	56	107701	48.695	ug/l	96
32) 1,1,1-Trichloroethane	5.373	97	109187	50.125	ug/l	100
36) 1,1-Dichloropropene	5.684	75	82704	50.649	ug/l	99
37) Ethyl Acetate	4.708	43	100204	48.695	ug/l	99
38) Carbon Tetrachloride	5.666	117	94233	53.397	ug/l	99
39) Methylcyclohexane	7.373	83	107571	53.743	ug/l	95
40) Benzene	6.025	78	248974	49.925	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
 Data File : VX045664.D
 Acq On : 09 Apr 2025 10:35
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
 Supervised By :Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	58179	53.585	ug/l	97
42) 1,2-Dichloroethane	6.080	62	106676	51.791	ug/l	100
43) Isopropyl Acetate	6.336	43	163987	52.580	ug/l	99
44) Trichloroethene	7.116	130	59881	50.518	ug/l	91
45) 1,2-Dichloropropane	7.421	63	63615	51.125	ug/l	98
46) Dibromomethane	7.574	93	48718	51.004	ug/l	99
47) Bromodichloromethane	7.818	83	99424	52.121	ug/l	96
48) Methyl methacrylate	7.690	41	85929	53.362	ug/l	99
49) 1,4-Dioxane	7.659	88	31096	1067.317	ug/l	99
51) 4-Methyl-2-Pentanone	8.567	43	537477	259.961	ug/l	100
52) Toluene	8.714	92	153268	50.790	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	89889	49.048	ug/l	97
54) cis-1,3-Dichloropropene	8.360	75	99782	55.664	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	61409	51.068	ug/l	97
56) Ethyl methacrylate	9.116	69	100629	54.073	ug/l	98
57) 1,3-Dichloropropane	9.305	76	107582	51.377	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	304462	323.406	ug/l	100
59) 2-Hexanone	9.427	43	400757	261.752	ug/l	100
60) Dibromochloromethane	9.518	129	69798	53.243	ug/l	99
61) 1,2-Dibromoethane	9.604	107	63194	51.914	ug/l	99
64) Tetrachloroethene	9.269	164	55185	52.870	ug/l	97
65) Chlorobenzene	10.073	112	165320	52.332	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	57001	51.972	ug/l	99
67) Ethyl Benzene	10.189	91	300677	53.143	ug/l	99
68) m/p-Xylenes	10.299	106	219352	106.594	ug/l	100
69) o-Xylene	10.640	106	105799	52.190	ug/l	97
70) Styrene	10.652	104	181071	54.118	ug/l	99
71) Bromoform	10.799	173	44695	54.578	ug/l #	97
73) Isopropylbenzene	10.957	105	284951	49.428	ug/l	99
74) N-amyl acetate	10.841	43	146100	52.979	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	96249	47.526	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	85411m	48.651	ug/l	
77) Bromobenzene	11.195	156	65498	49.171	ug/l	100
78) n-propylbenzene	11.299	91	338085	50.914	ug/l	100
79) 2-Chlorotoluene	11.360	91	206840	48.724	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	243354	51.048	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	26806	51.822	ug/l	98
82) 4-Chlorotoluene	11.451	91	240935	50.904	ug/l	100
83) tert-Butylbenzene	11.713	119	237194	50.257	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	248759	51.990	ug/l	100
85) sec-Butylbenzene	11.890	105	302409	52.168	ug/l	100
86) p-Isopropyltoluene	12.006	119	253229	52.986	ug/l	100
87) 1,3-Dichlorobenzene	11.969	146	122497	50.521	ug/l	100
88) 1,4-Dichlorobenzene	12.036	146	121623	49.477	ug/l	97
89) n-Butylbenzene	12.329	91	231337	55.821	ug/l	99
90) Hexachloroethane	12.536	117	43183	52.576	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	122650	50.878	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	22753	53.721	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	73080	54.462	ug/l	98
94) Hexachlorobutadiene	13.725	225	31389	54.285	ug/l	98
95) Naphthalene	13.774	128	265127	53.094	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	73391	52.232	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

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

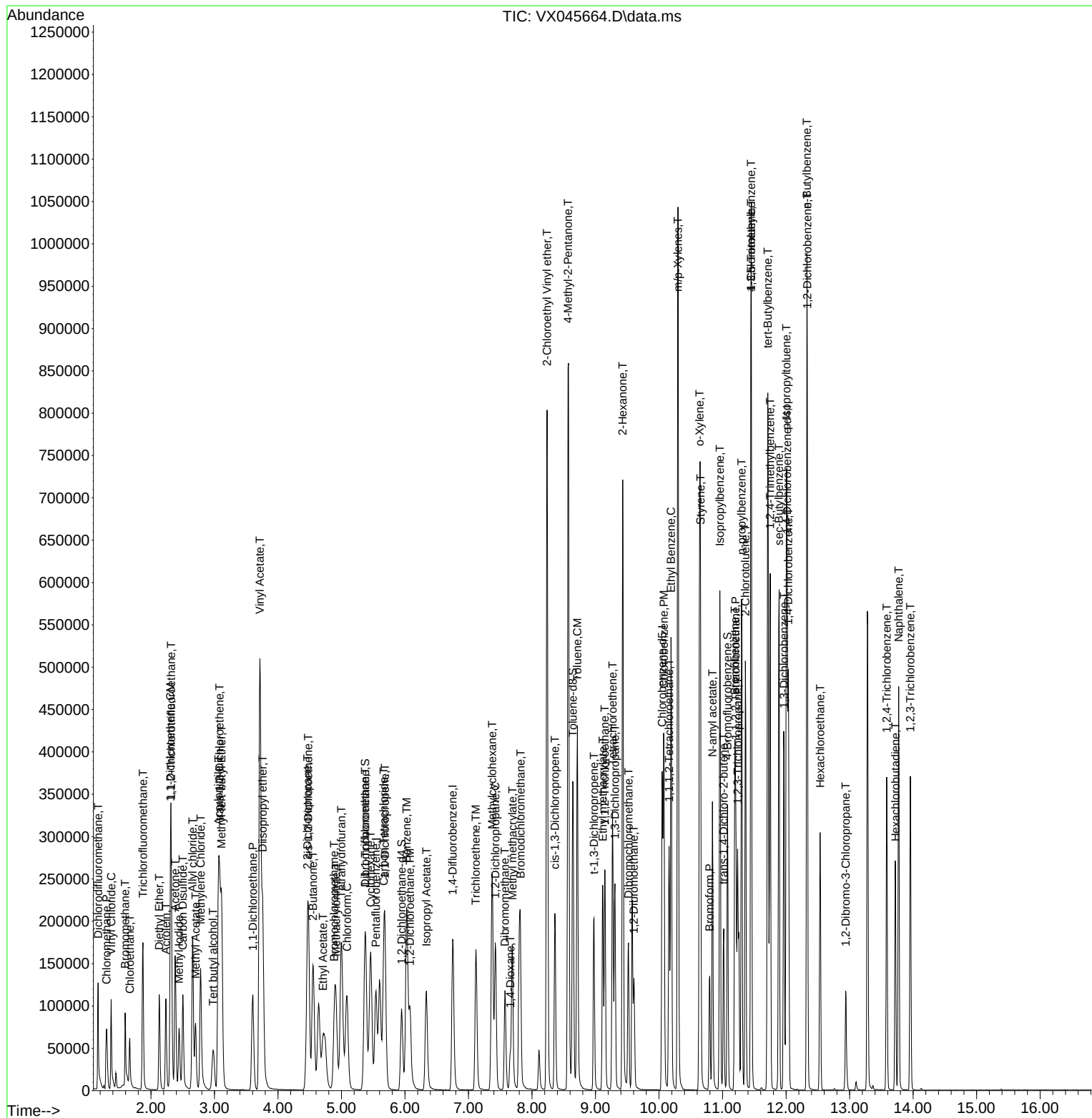
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

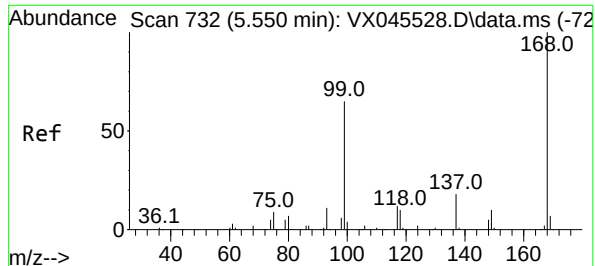
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025





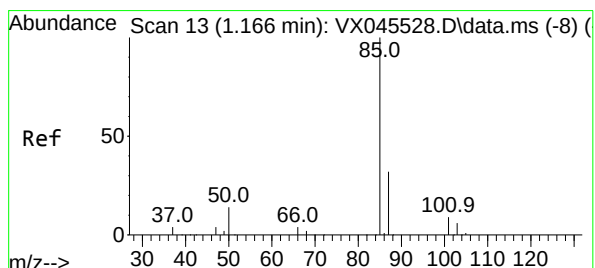
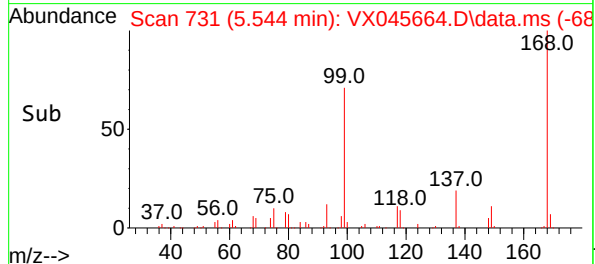
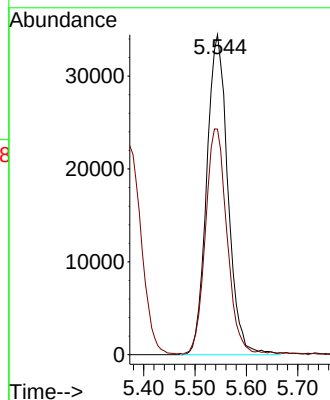
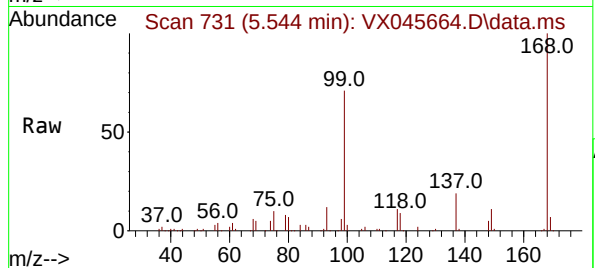
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 98594
Ion Ratio Lower Upper
168 100
99 70.1 52.3 78.5

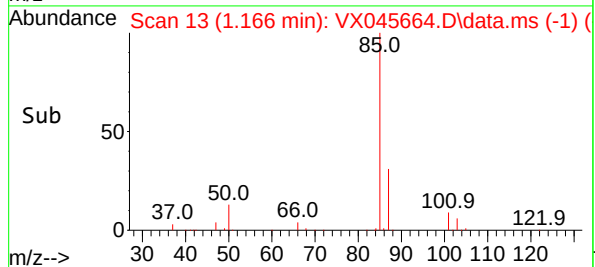
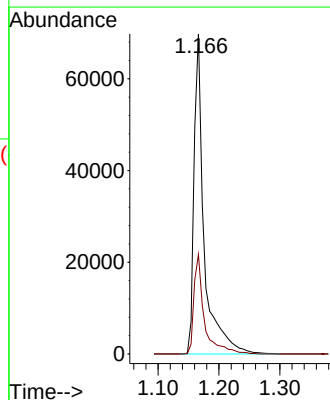
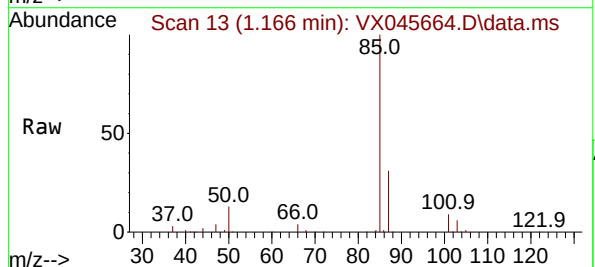
Manual Integrations
APPROVED

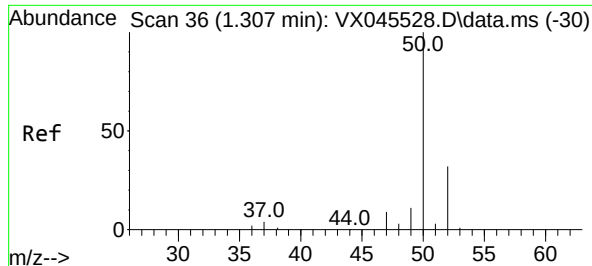
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 54.408 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 85 Resp: 80223
Ion Ratio Lower Upper
85 100
87 31.2 16.1 48.2





#3

Chloromethane

Concen: 48.432 ug/l

RT: 1.300 min Scan# 3

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 50 Resp: 73364

Ion Ratio Lower Upper

50 100

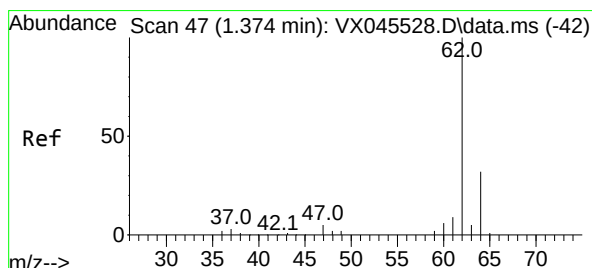
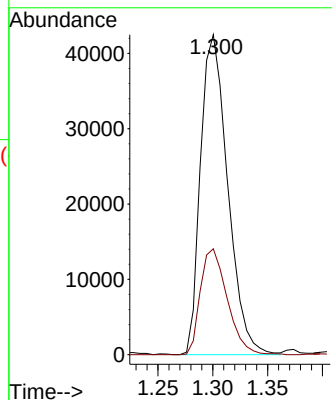
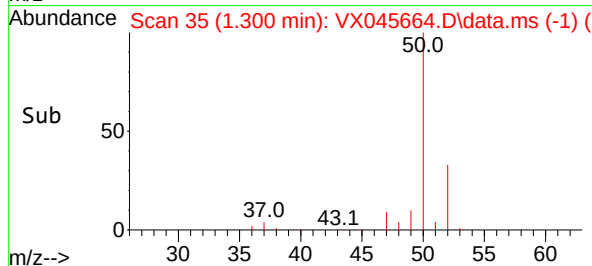
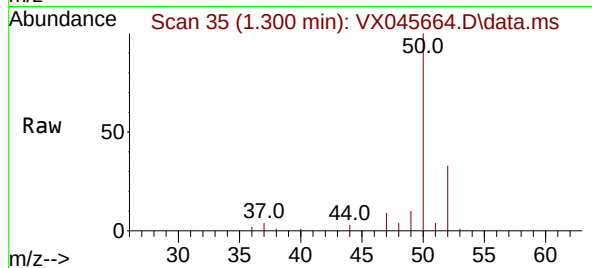
52 33.1 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#4

Vinyl Chloride

Concen: 49.103 ug/l

RT: 1.374 min Scan# 47

Delta R.T. -0.000 min

Lab File: VX045664.D

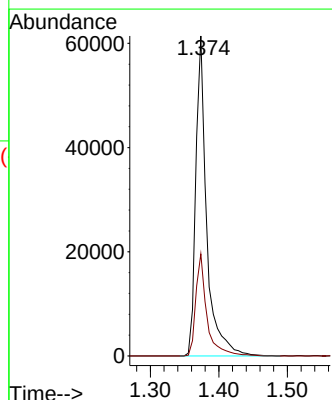
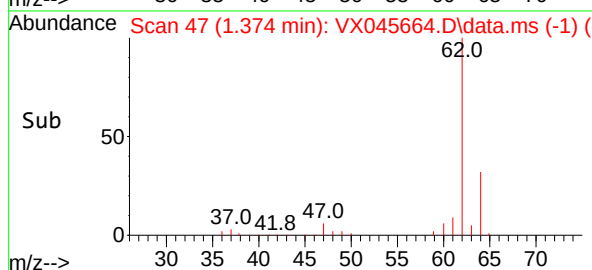
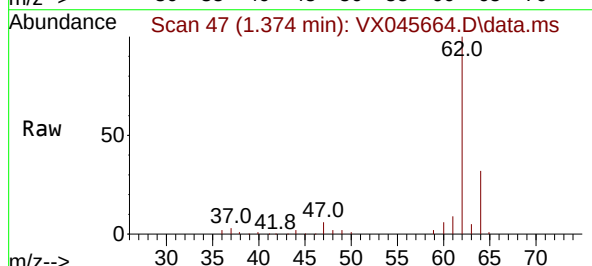
Acq: 09 Apr 2025 10:35

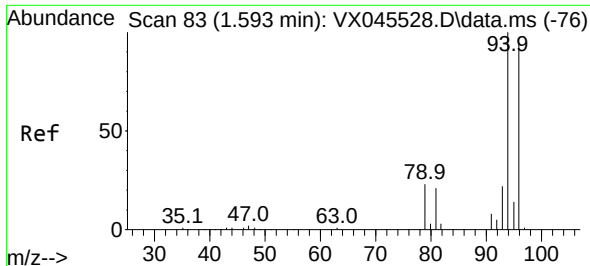
Tgt Ion: 62 Resp: 68070

Ion Ratio Lower Upper

62 100

64 31.9 25.5 38.3





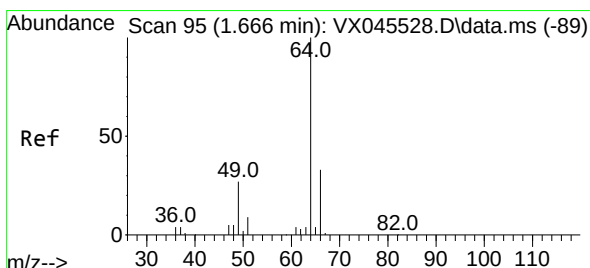
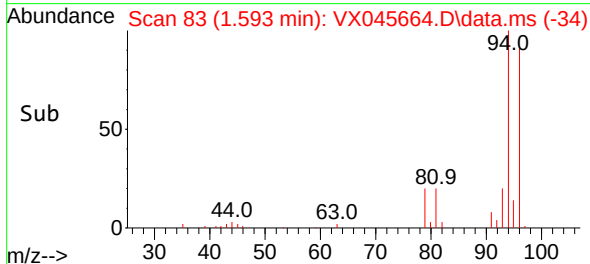
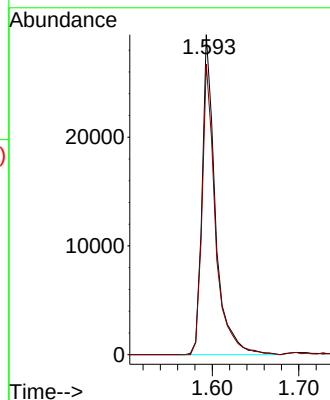
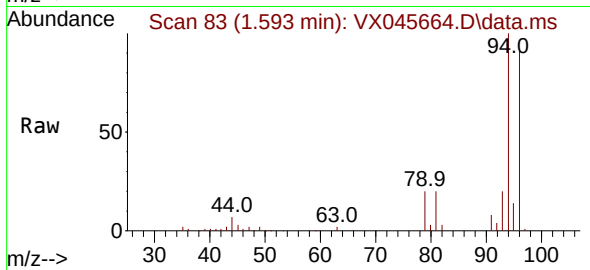
#5
Bromomethane
Concen: 47.592 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 94 Resp: 3128
Ion Ratio Lower Upper
94 100
96 90.8 74.8 112.2

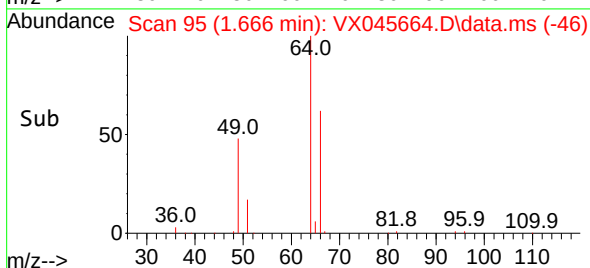
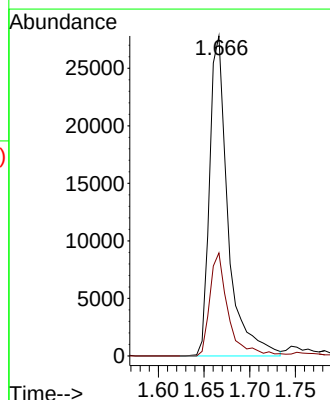
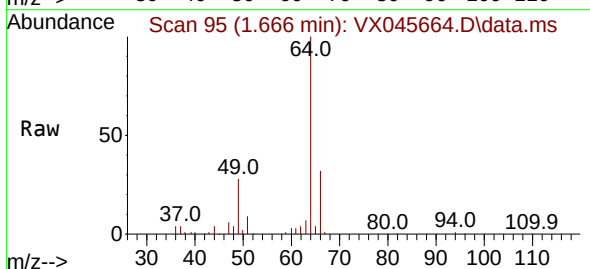
Manual Integrations
APPROVED

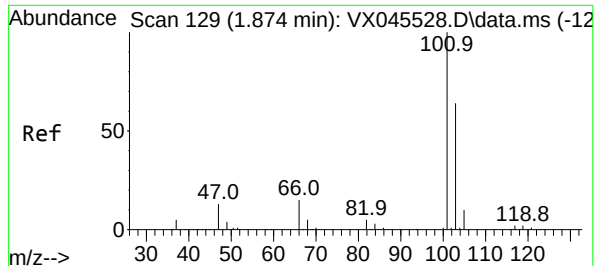
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#6
Chloroethane
Concen: 52.923 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

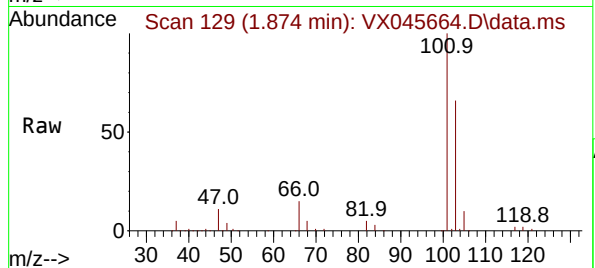
Tgt Ion: 64 Resp: 38924
Ion Ratio Lower Upper
64 100
66 32.2 26.3 39.5





#7
Trichlorofluoromethane
Concen: 51.999 ug/l
RT: 1.874 min Scan# 110
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

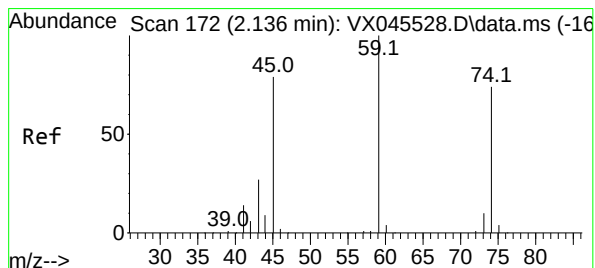
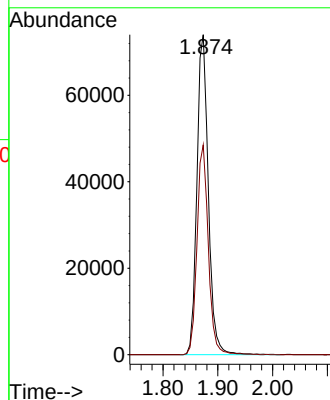
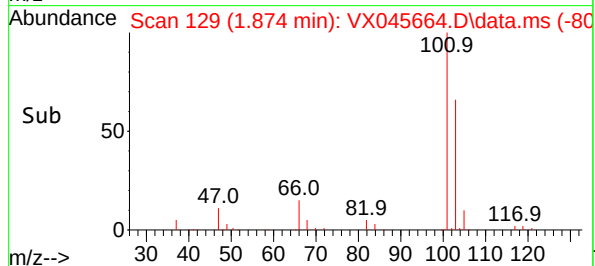
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 10749
Ion Ratio Lower Upper
101 100
103 65.5 51.1 76.7

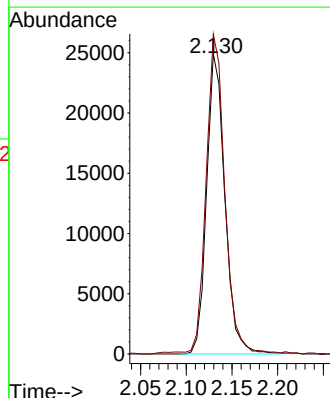
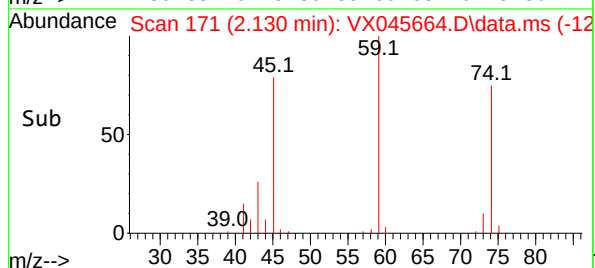
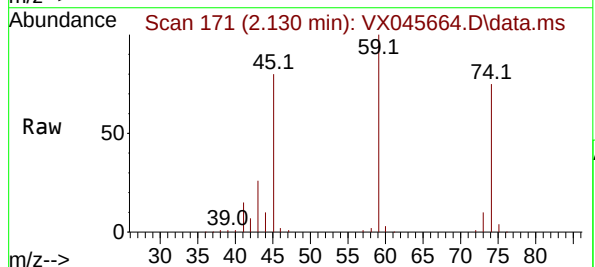
Manual Integrations
APPROVED

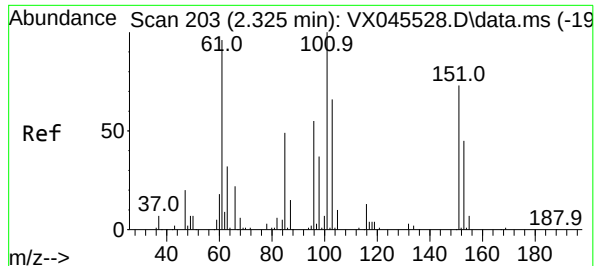
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#8
Diethyl Ether
Concen: 49.768 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 74 Resp: 34540
Ion Ratio Lower Upper
74 100
45 109.9 53.0 159.1





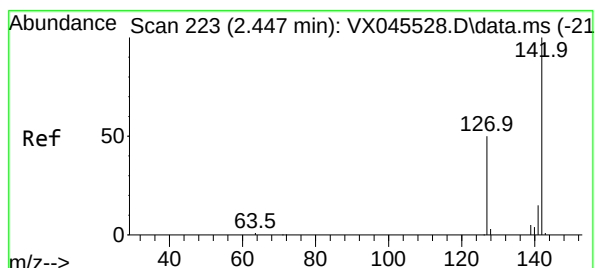
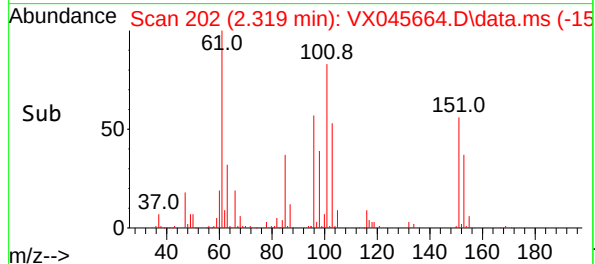
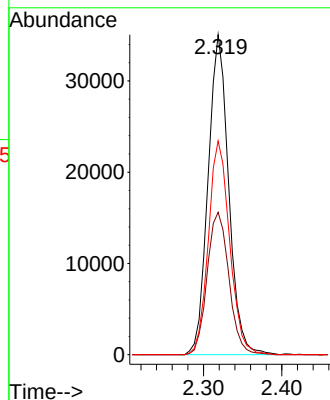
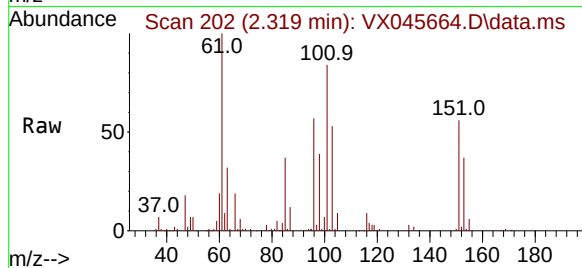
#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.860 ug/l
RT: 2.319 min Scan# 203
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 64030
Ion Ratio Lower Upper
101 100
85 47.1 38.9 58.3
151 69.1 57.5 86.3

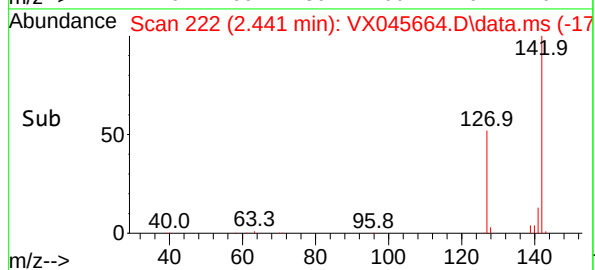
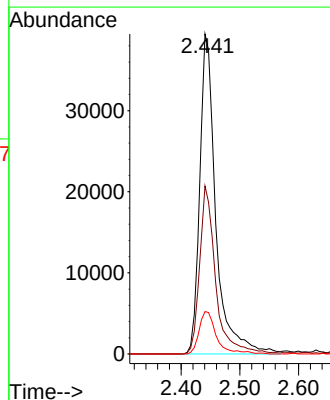
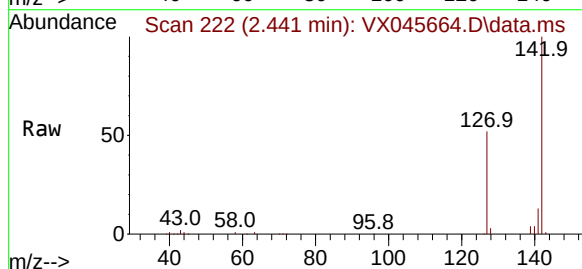
Manual Integrations
APPROVED

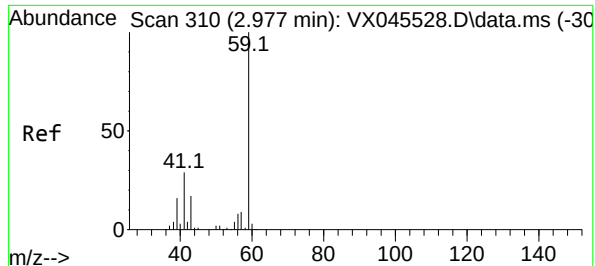
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#10
Methyl Iodide
Concen: 49.865 ug/l
RT: 2.441 min Scan# 222
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion:142 Resp: 75341
Ion Ratio Lower Upper
142 100
127 52.1 40.2 60.4
141 14.3 11.7 17.5





#11

Tert butyl alcohol

Concen: 250.751 ug/l

RT: 2.977 min Scan# 310

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 60760

Ion Ratio Lower Upper

59 100

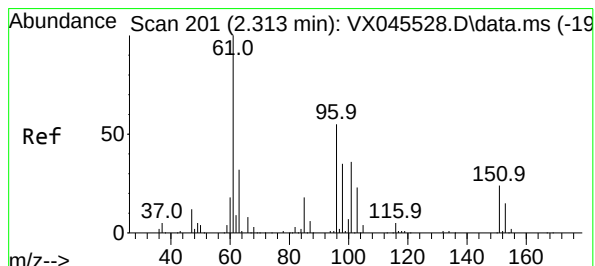
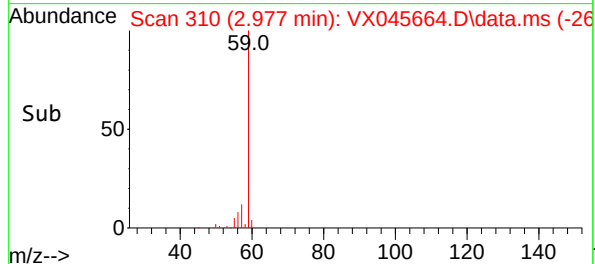
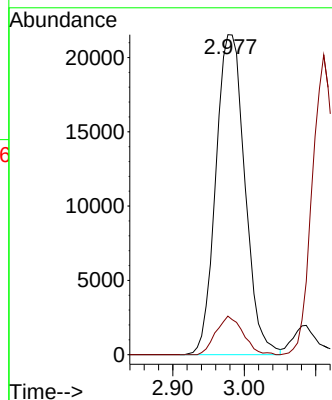
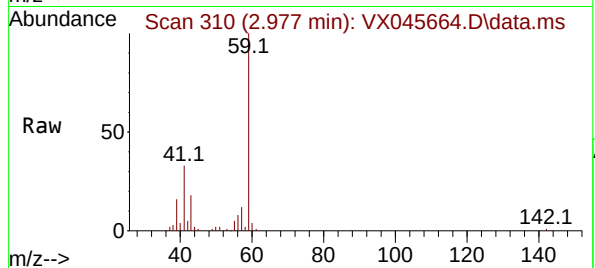
57 11.3 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#12

1,1-Dichloroethene

Concen: 48.810 ug/l

RT: 2.306 min Scan# 200

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

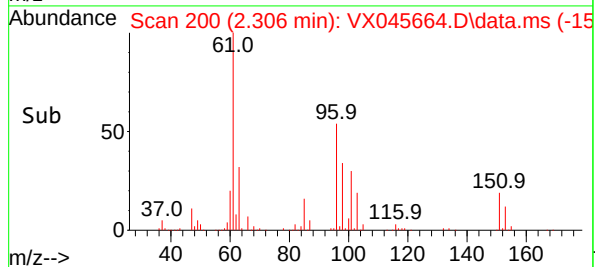
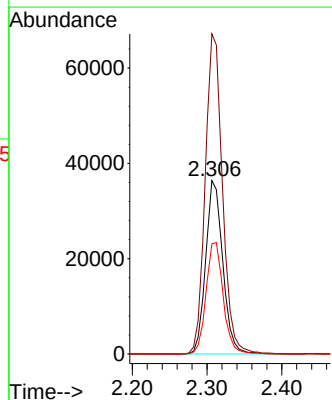
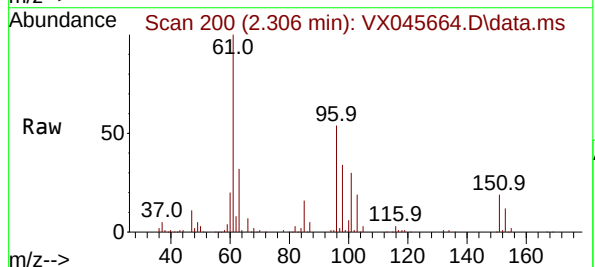
Tgt Ion: 96 Resp: 57773

Ion Ratio Lower Upper

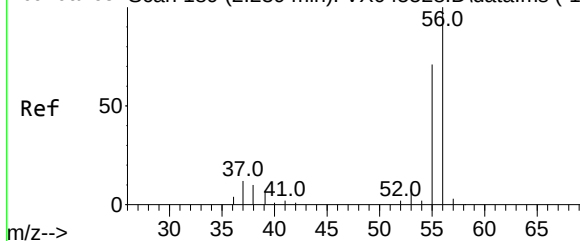
96 100

61 184.5 145.7 218.5

98 63.5 51.6 77.4



Abundance Scan 189 (2.239 min): VX045528.D\data.ms (-18



#13

Acrolein

Concen: 215.595 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 71940

Ion Ratio Lower Upper

56 100

55 71.5 56.2 84.2

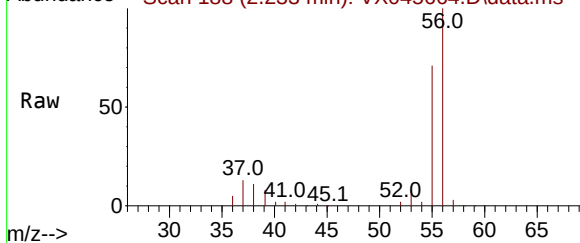
Manual Integrations

APPROVED

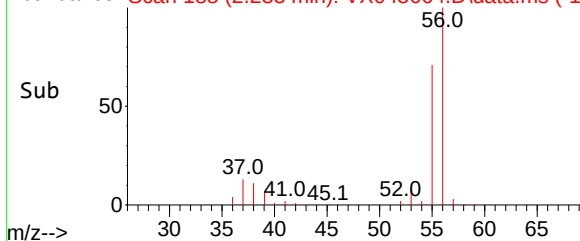
Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025

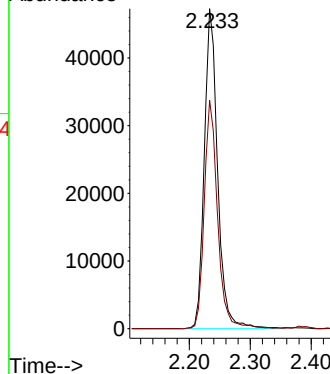
Abundance Scan 188 (2.233 min): VX045664.D\data.ms



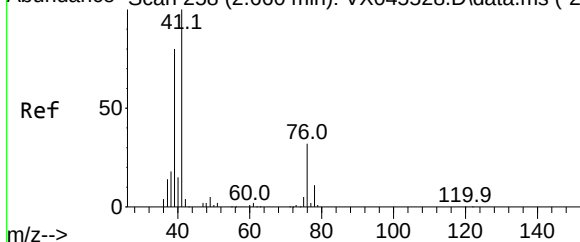
Abundance Scan 188 (2.233 min): VX045664.D\data.ms (-14



Abundance



Abundance Scan 258 (2.660 min): VX045528.D\data.ms (-24



#14

Allyl chloride

Concen: 50.776 ug/l

RT: 2.654 min Scan# 257

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion: 41 Resp: 114031

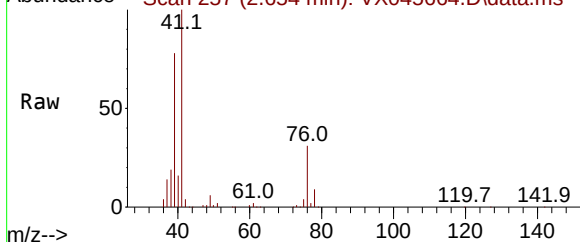
Ion Ratio Lower Upper

41 100

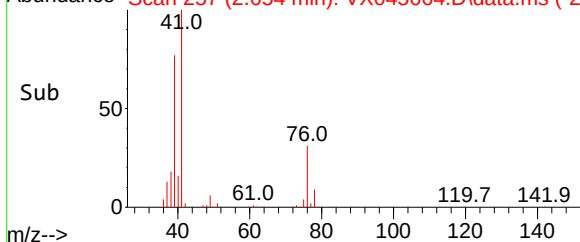
39 75.5 60.2 90.2

76 30.6 24.6 36.8

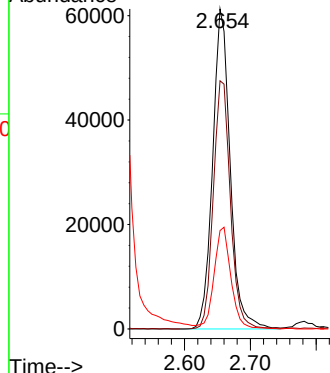
Abundance Scan 257 (2.654 min): VX045664.D\data.ms

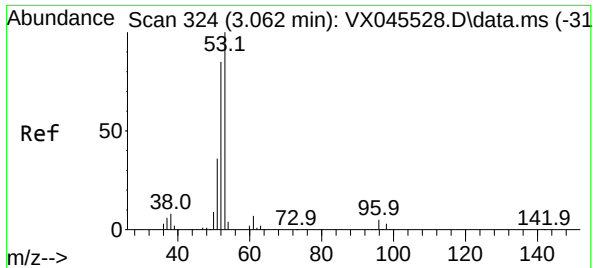


Abundance Scan 257 (2.654 min): VX045664.D\data.ms (-20



Abundance





#15

Acrylonitrile

Concen: 239.873 ug/l

RT: 3.062 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

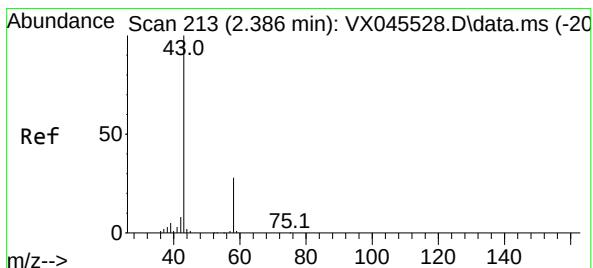
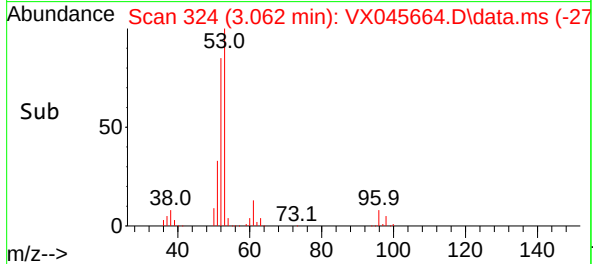
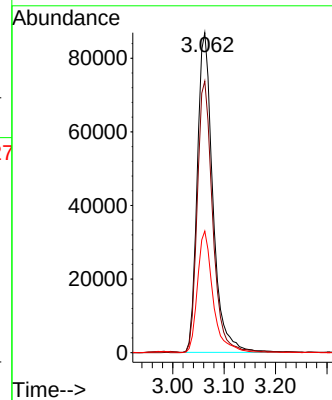
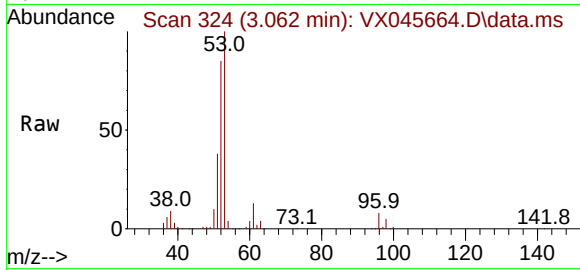
ClientSampleId :

VSTDCCC050

Tgt Ion:	53	Resp:	18347
Ion	Ratio	Lower	Upper
53	100		
52	83.8	67.4	101.2
51	37.8	29.9	44.9

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#16

Acetone

Concen: 232.643 ug/l

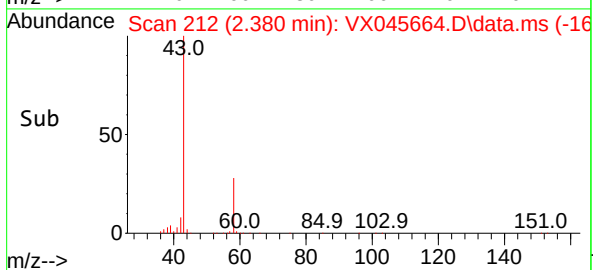
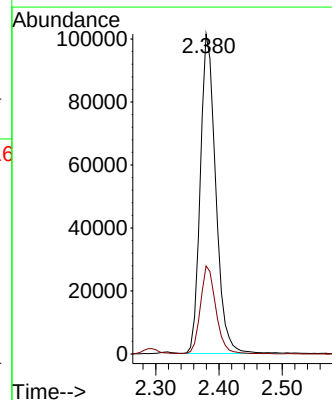
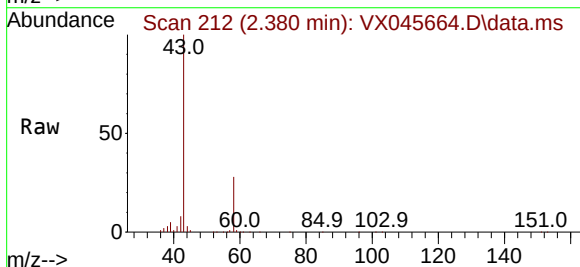
RT: 2.380 min Scan# 212

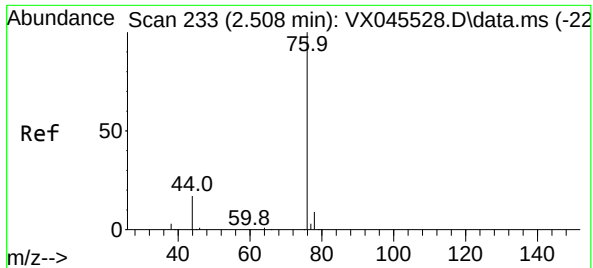
Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	43	Resp:	172243
Ion	Ratio	Lower	Upper
43	100		
58	27.5	22.3	33.5





#17

Carbon Disulfide

Concen: 46.377 ug/l

RT: 2.501 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 13557

Ion Ratio Lower Upper

76 100

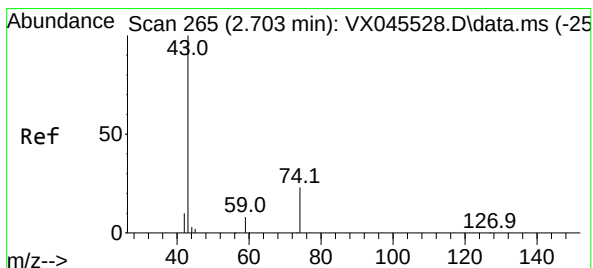
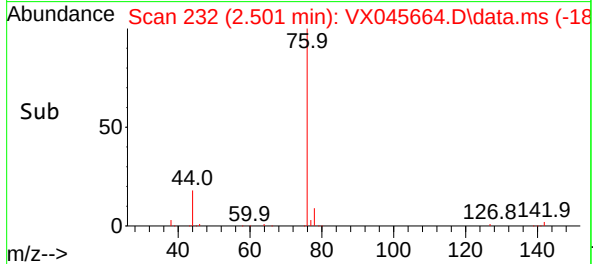
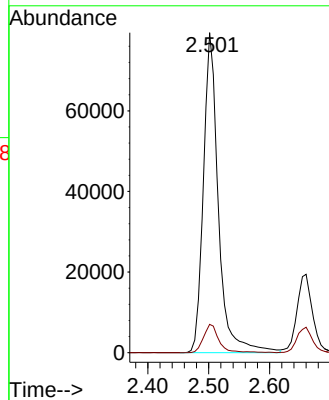
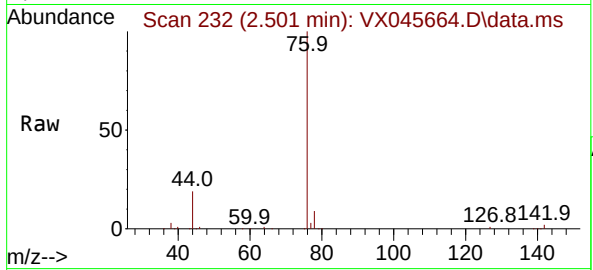
78 8.9 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#18

Methyl Acetate

Concen: 53.475 ug/l

RT: 2.703 min Scan# 265

Delta R.T. -0.000 min

Lab File: VX045664.D

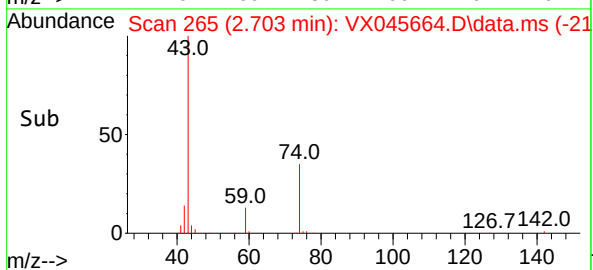
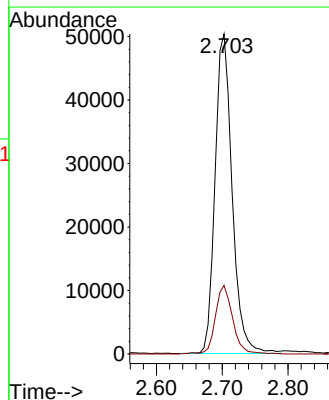
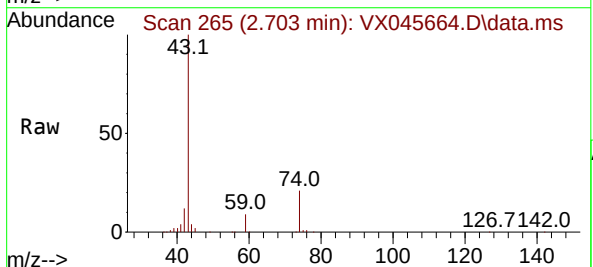
Acq: 09 Apr 2025 10:35

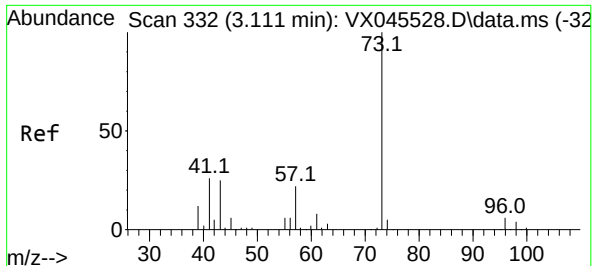
Tgt Ion: 43 Resp: 91155

Ion Ratio Lower Upper

43 100

74 21.7 17.5 26.3





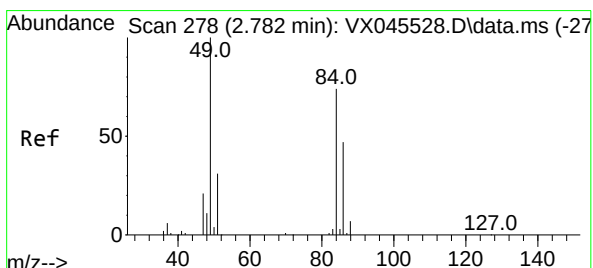
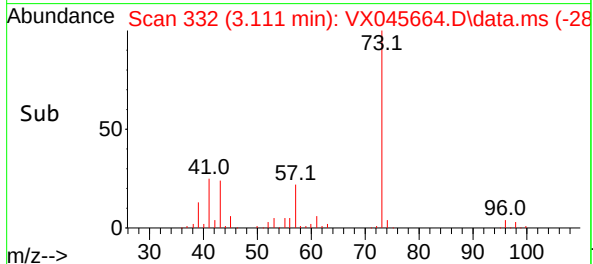
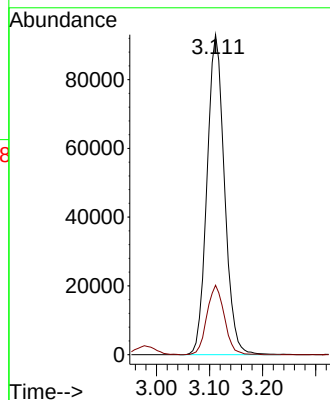
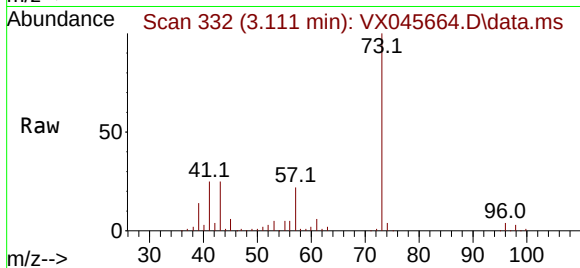
#19
Methyl tert-butyl Ether
Concen: 51.365 ug/l
RT: 3.111 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 73 Resp: 21267
Ion Ratio Lower Upper
73 100
57 21.7 17.6 26.4

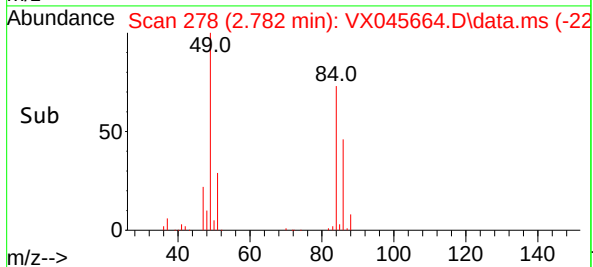
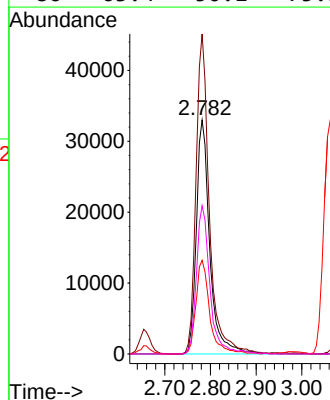
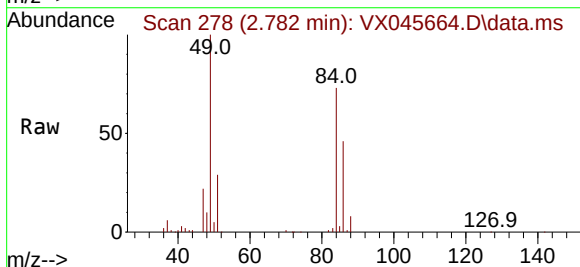
Manual Integrations
APPROVED

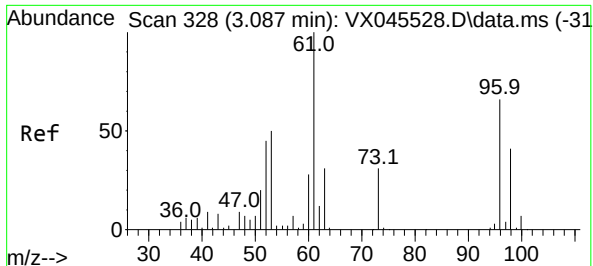
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#20
Methylene Chloride
Concen: 48.733 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 84 Resp: 67547
Ion Ratio Lower Upper
84 100
49 136.8 107.5 161.3
51 40.1 33.0 49.6
86 63.4 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 49.674 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 6006

Ion Ratio Lower Upper

96 100

61 149.6 121.0 181.6

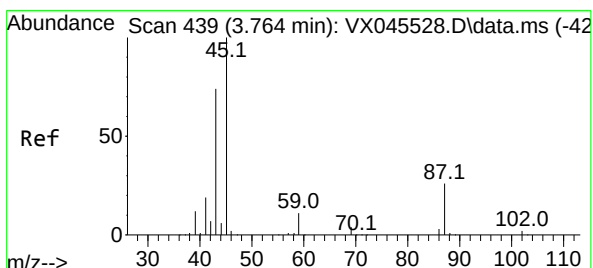
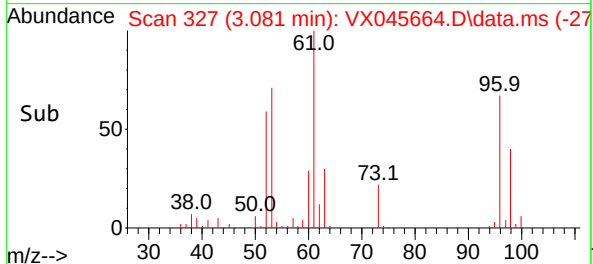
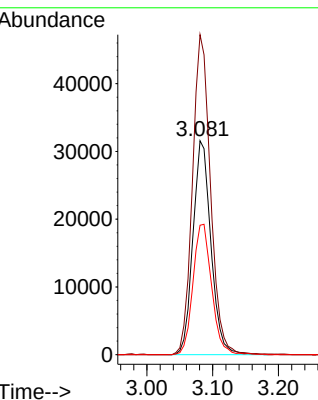
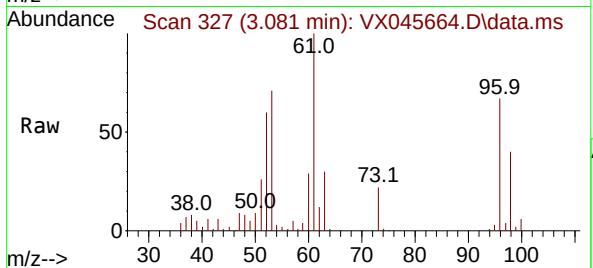
98 60.5 49.7 74.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#22

Diisopropyl ether

Concen: 51.300 ug/l

RT: 3.757 min Scan# 438

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion: 45 Resp: 226945

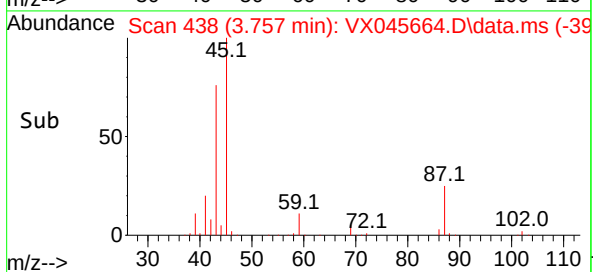
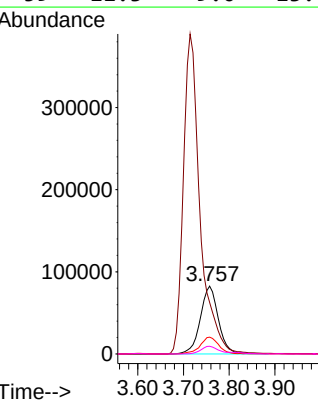
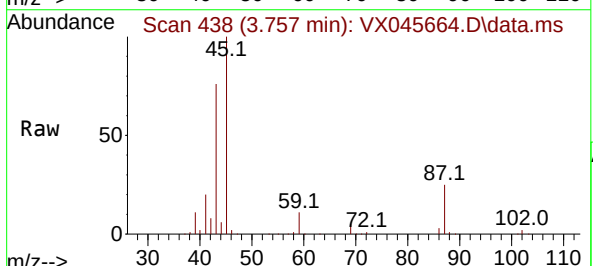
Ion Ratio Lower Upper

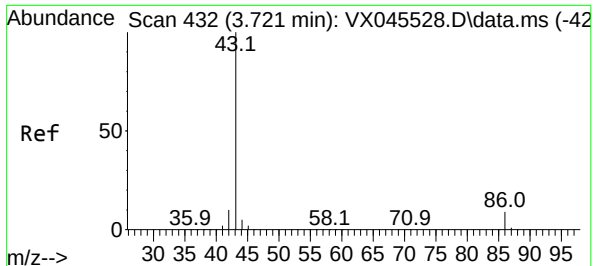
45 100

43 75.8 59.3 88.9

87 24.8 20.4 30.6

59 11.3 9.0 13.6





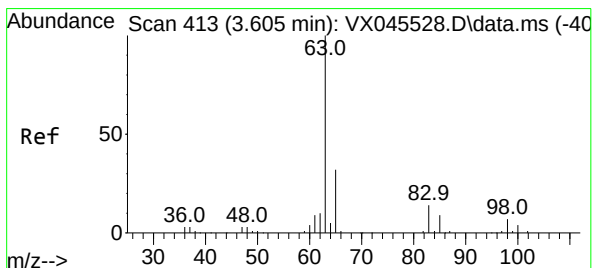
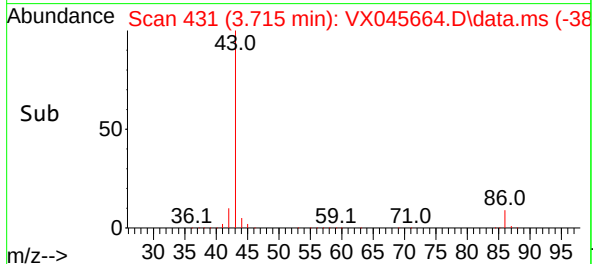
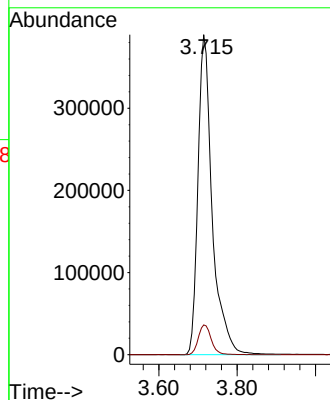
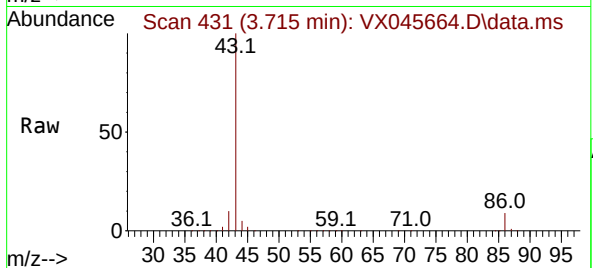
#23
Vinyl Acetate
Concen: 258.743 ug/l
RT: 3.715 min Scan# 41
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 988964
Ion Ratio Lower Upper
43 100
86 9.3 7.5 11.3

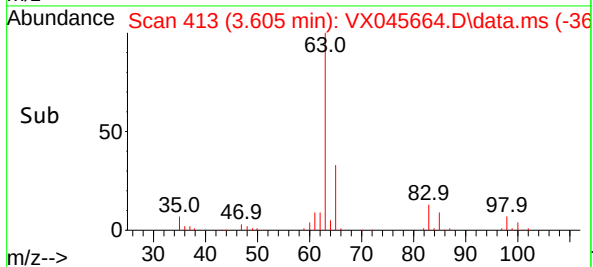
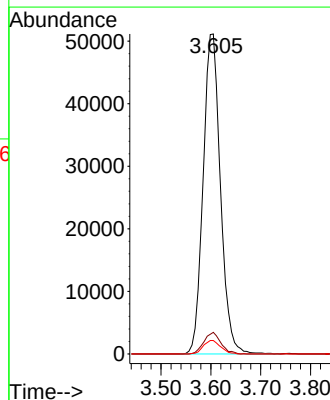
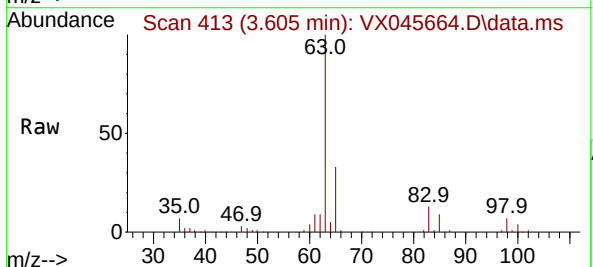
Manual Integrations
APPROVED

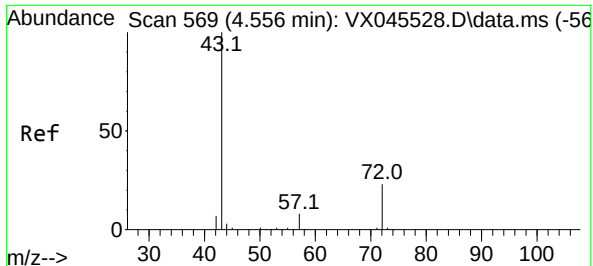
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#24
1,1-Dichloroethane
Concen: 49.288 ug/l
RT: 3.605 min Scan# 413
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 63 Resp: 123311
Ion Ratio Lower Upper
63 100
98 6.8 3.4 10.1
100 4.2 2.2 6.6





#25

2-Butanone

Concen: 244.882 ug/l

RT: 4.550 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 265392

Ion Ratio Lower Upper

43 100

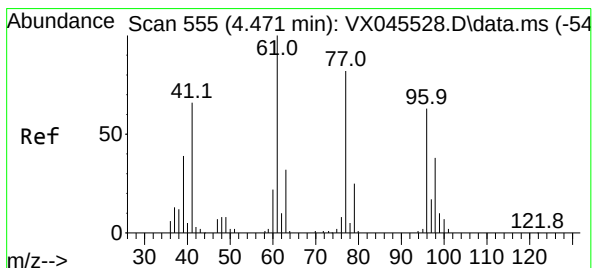
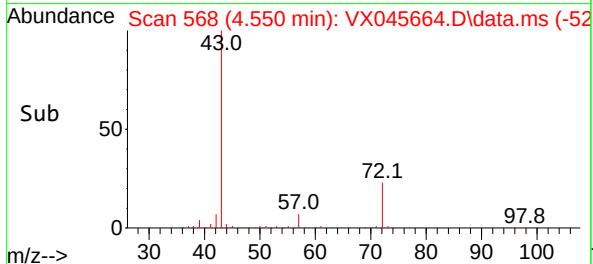
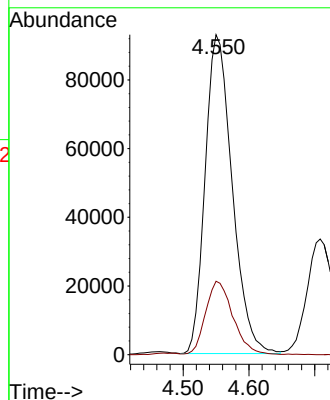
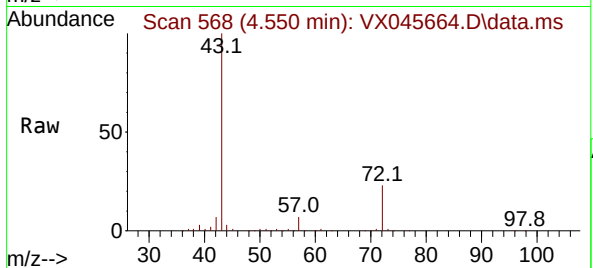
72 23.0 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#26

2,2-Dichloropropane

Concen: 58.169 ug/l

RT: 4.465 min Scan# 554

Delta R.T. -0.006 min

Lab File: VX045664.D

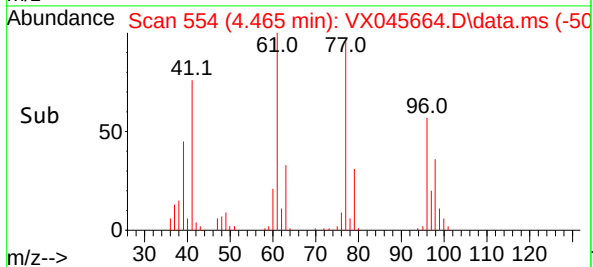
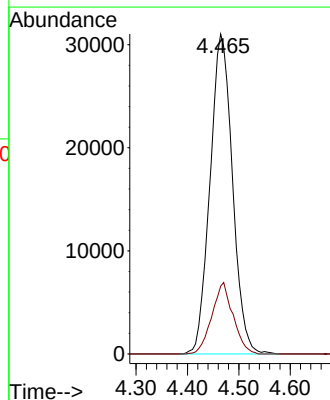
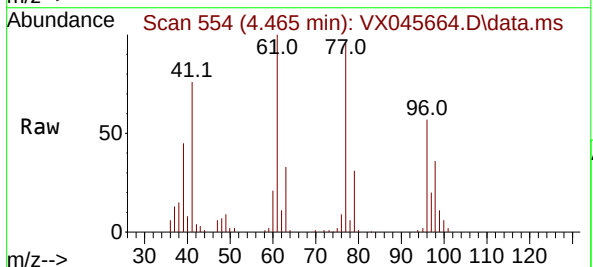
Acq: 09 Apr 2025 10:35

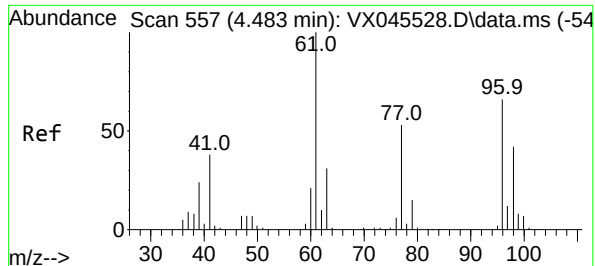
Tgt Ion: 77 Resp: 94027

Ion Ratio Lower Upper

77 100

97 21.1 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 49.093 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 7232

Ion Ratio Lower Upper

96 100

61 160.7 0.0 313.2

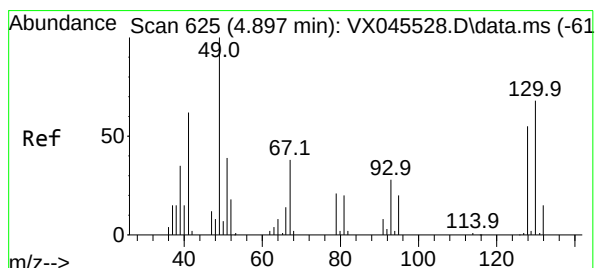
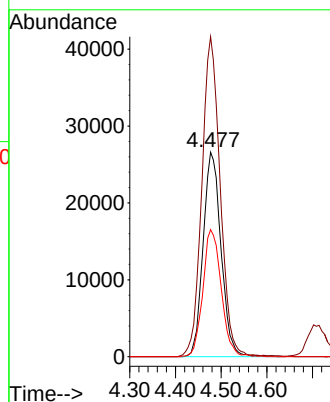
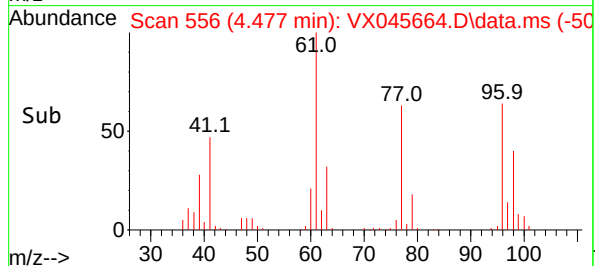
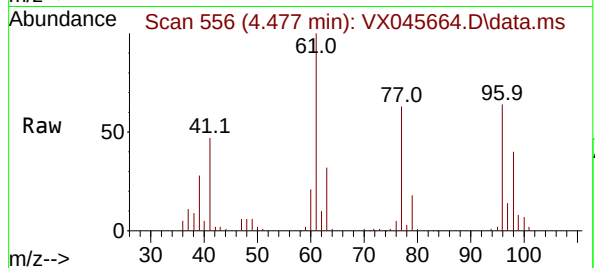
98 63.8 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#28

Bromochloromethane

Concen: 46.046 ug/l

RT: 4.885 min Scan# 623

Delta R.T. -0.012 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

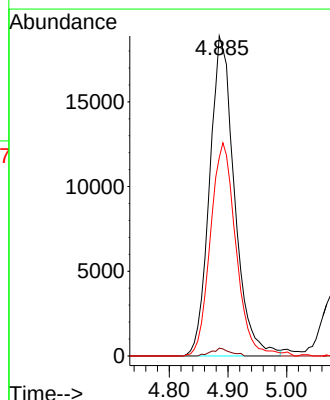
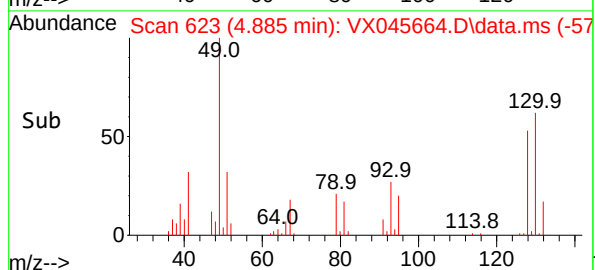
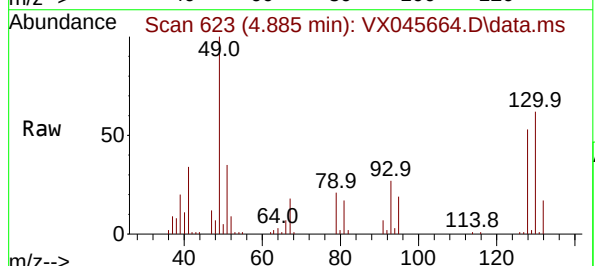
Tgt Ion: 49 Resp: 55670

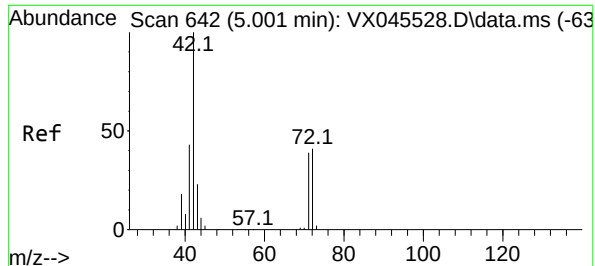
Ion Ratio Lower Upper

49 100

129 1.8 0.0 3.8

130 68.4 54.6 81.8





#29

Tetrahydrofuran

Concen: 240.083 ug/l

RT: 4.995 min Scan# 641

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 16869

Ion Ratio Lower Upper

42 100

72 41.2 33.4 50.0

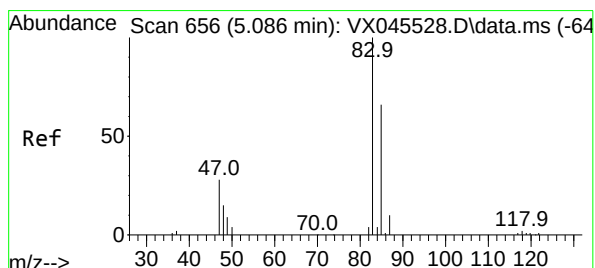
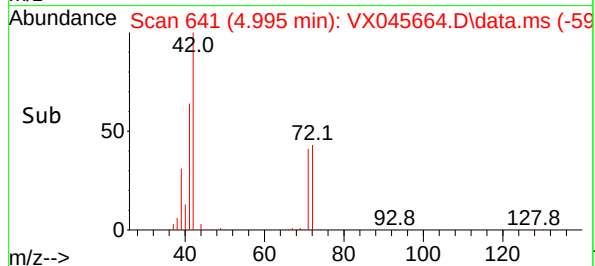
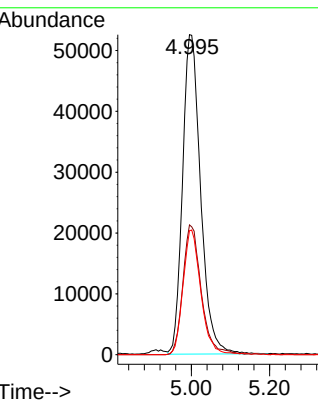
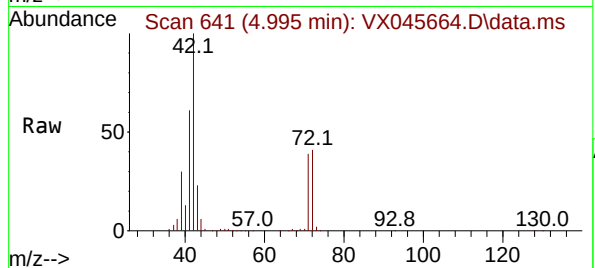
71 38.3 31.4 47.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#30

Chloroform

Concen: 50.443 ug/l

RT: 5.086 min Scan# 656

Delta R.T. -0.000 min

Lab File: VX045664.D

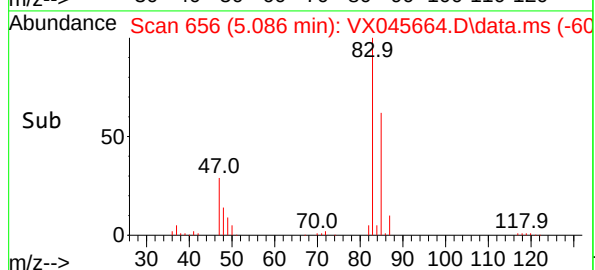
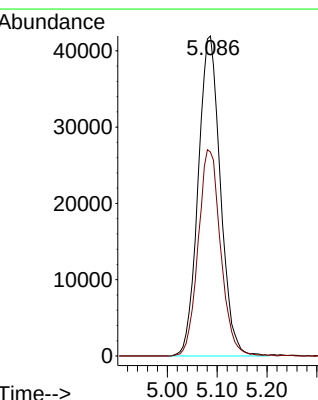
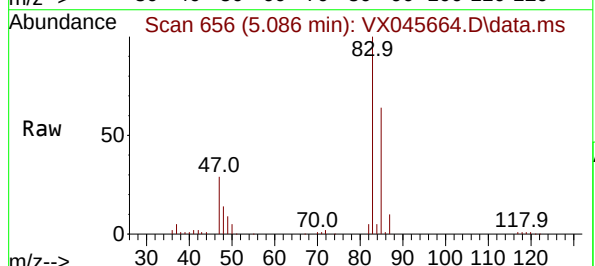
Acq: 09 Apr 2025 10:35

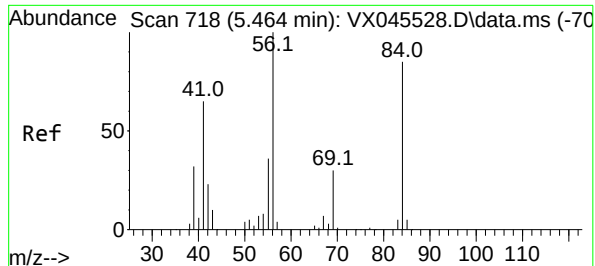
Tgt Ion: 83 Resp: 129858

Ion Ratio Lower Upper

83 100

85 63.7 52.8 79.2





#31

Cyclohexane

Concen: 48.695 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 10770

Ion Ratio Lower Upper

56 100

69 28.1 23.6 35.4

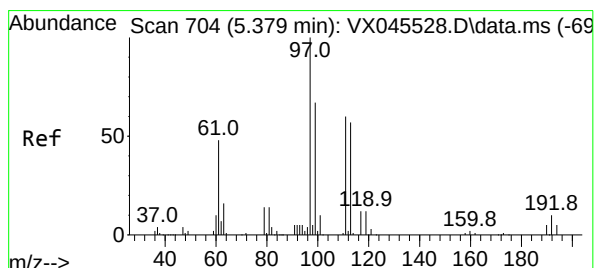
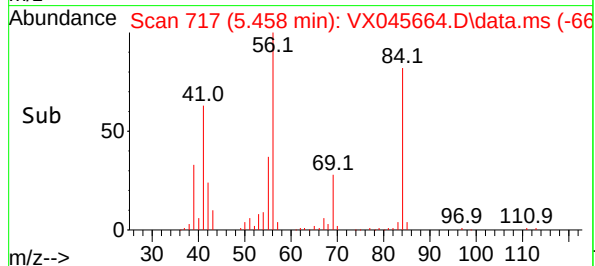
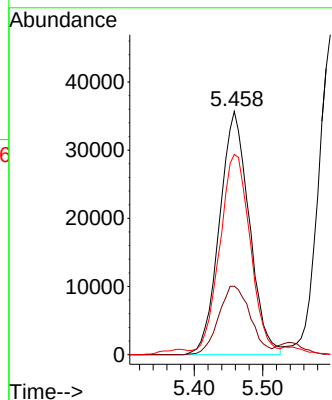
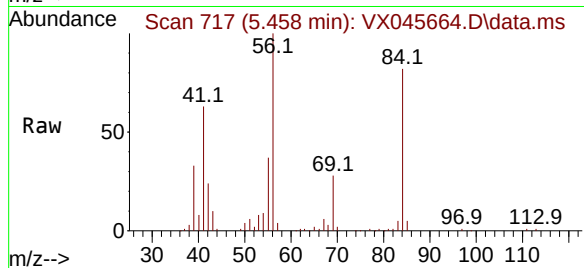
84 80.0 67.7 101.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#32

1,1,1-Trichloroethane

Concen: 50.125 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

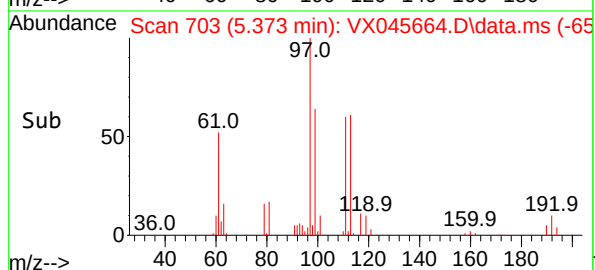
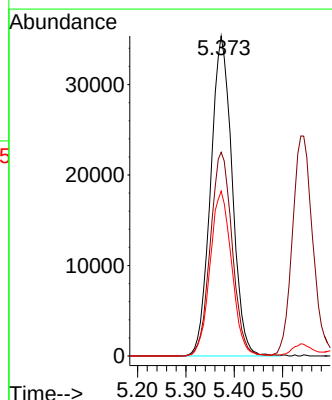
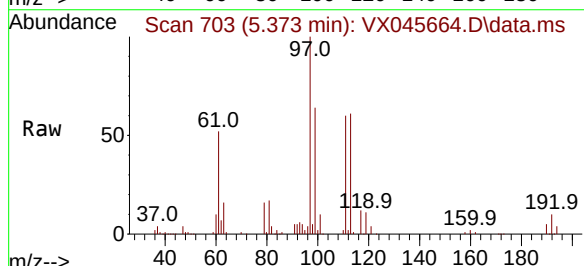
Tgt Ion: 97 Resp: 109187

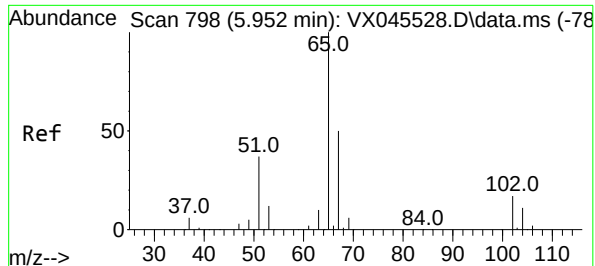
Ion Ratio Lower Upper

97 100

99 64.6 51.7 77.5

61 51.9 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 51.679 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 93178

Ion Ratio Lower Upper

65 100

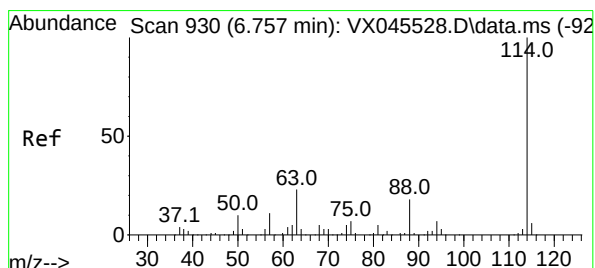
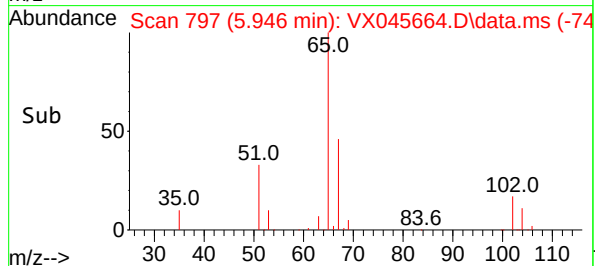
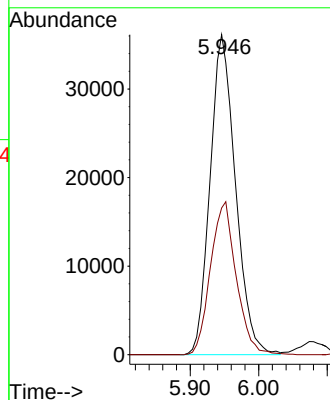
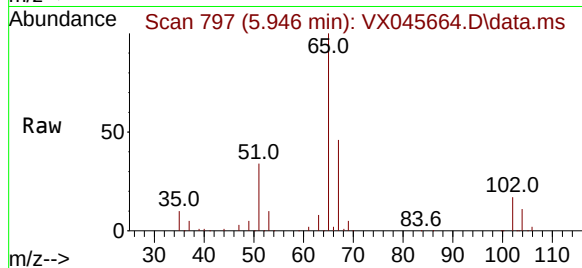
67 48.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

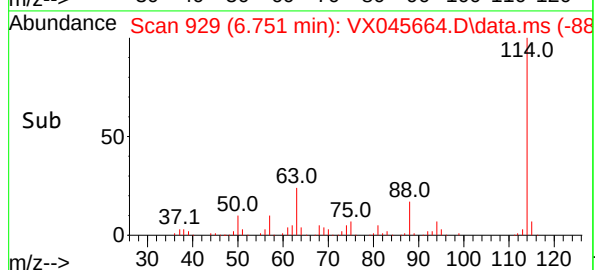
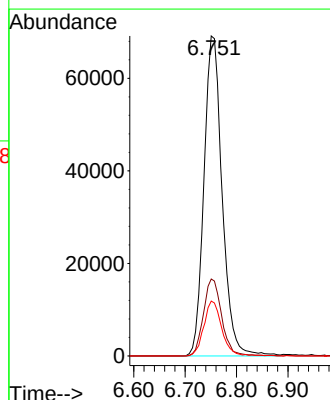
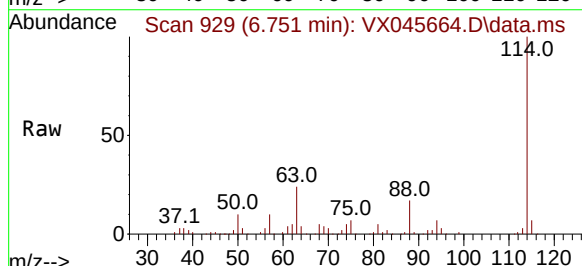
Tgt Ion:114 Resp: 170453

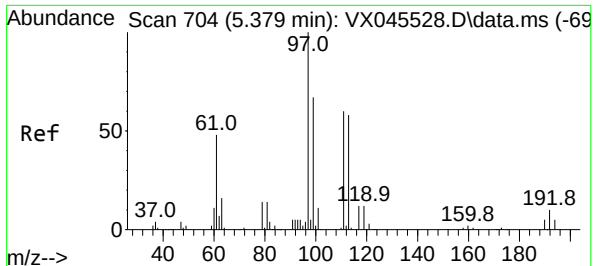
Ion Ratio Lower Upper

114 100

63 24.1 0.0 46.8

88 17.2 0.0 35.4





#35

Dibromofluoromethane

Concen: 53.479 ug/l

RT: 5.373 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

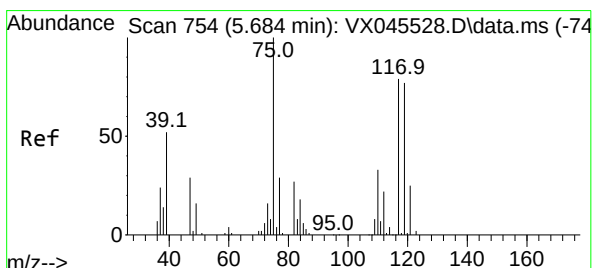
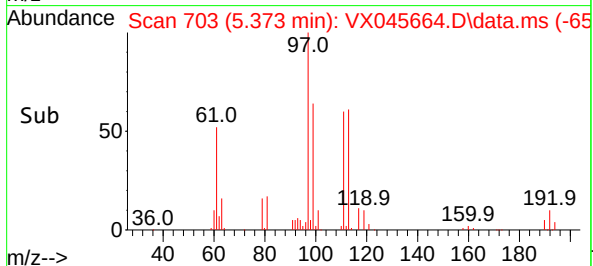
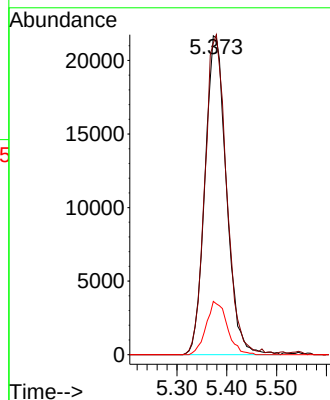
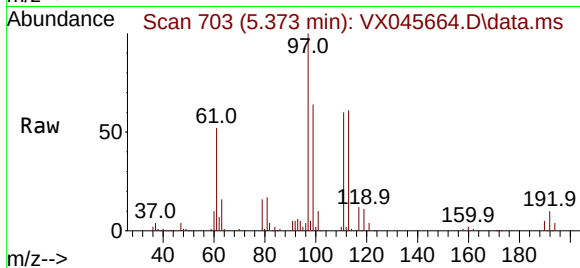
VSTDCCC050

Tgt Ion:	113	Resp:	64670
Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.8	122.6
192	16.4	13.8	20.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#36

1,1-Dichloropropene

Concen: 50.649 ug/l

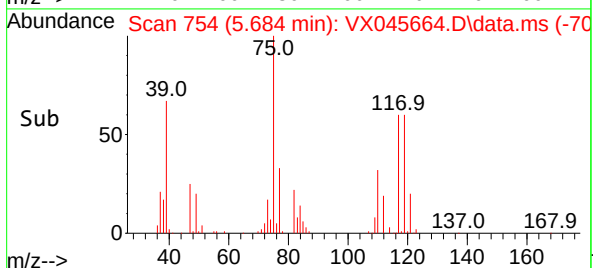
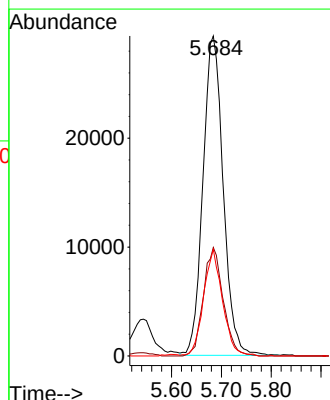
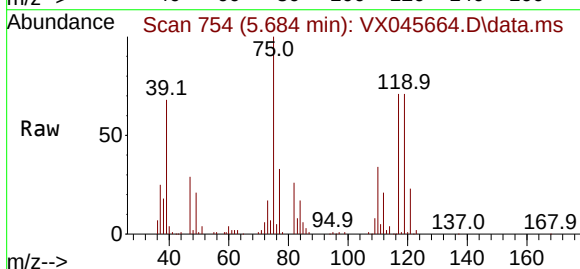
RT: 5.684 min Scan# 754

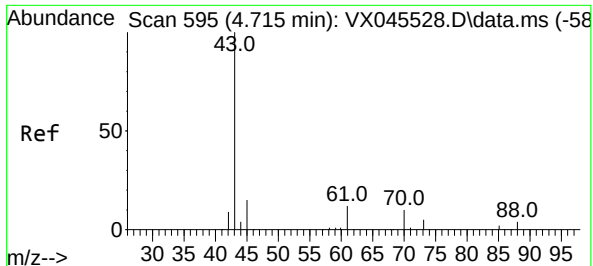
Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	75	Resp:	82704
Ion	Ratio	Lower	Upper
75	100		
110	33.2	16.9	50.6
77	31.3	25.0	37.4





#37

Ethyl Acetate

Concen: 48.695 ug/l

RT: 4.708 min Scan# 594

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 100204

Ion Ratio Lower Upper

43 100

61 12.5 9.9 14.9

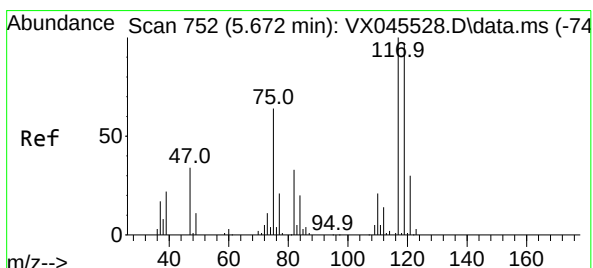
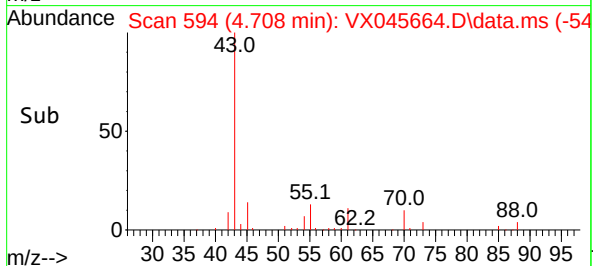
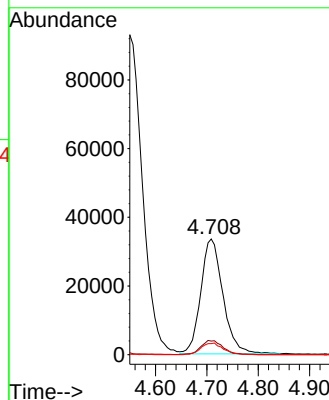
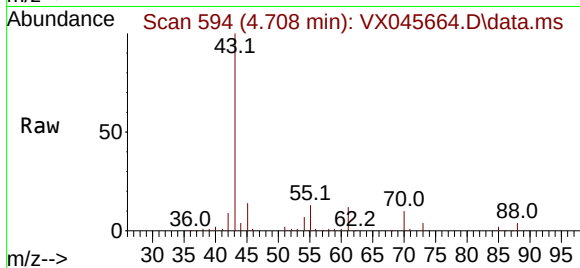
70 10.1 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#38

Carbon Tetrachloride

Concen: 53.397 ug/l

RT: 5.666 min Scan# 751

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

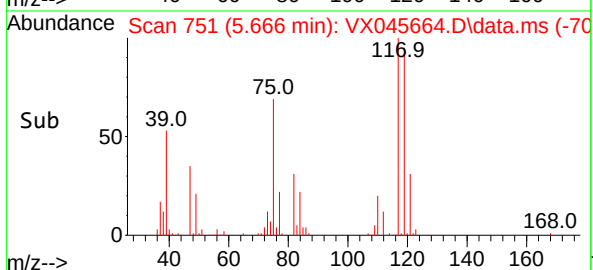
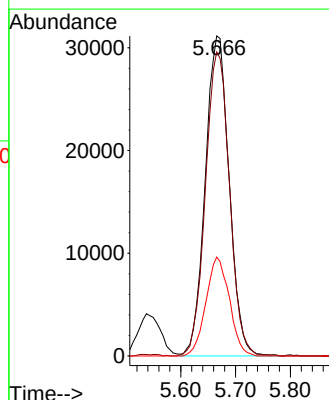
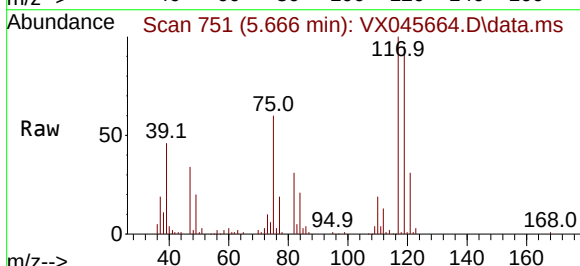
Tgt Ion:117 Resp: 94233

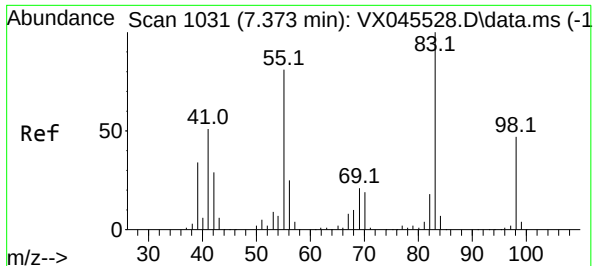
Ion Ratio Lower Upper

117 100

119 95.0 76.9 115.3

121 30.9 24.2 36.2





#39

Methylcyclohexane

Concen: 53.743 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 10757

Ion Ratio Lower Upper

83 100

55 85.5 64.9 97.3

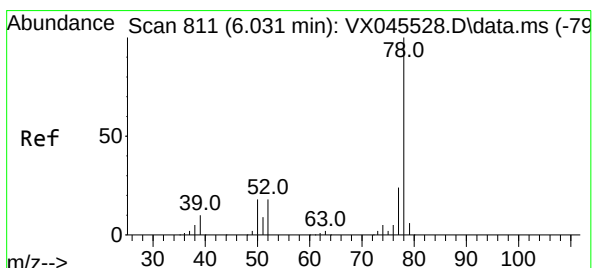
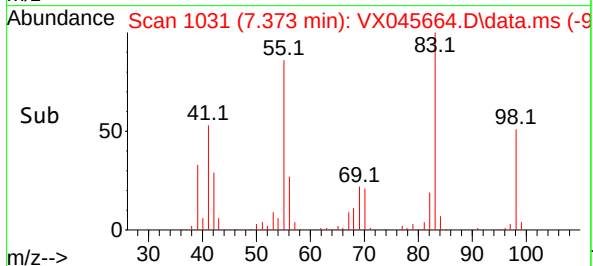
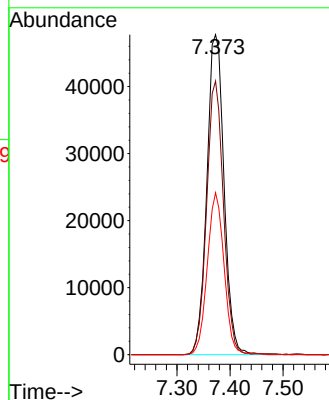
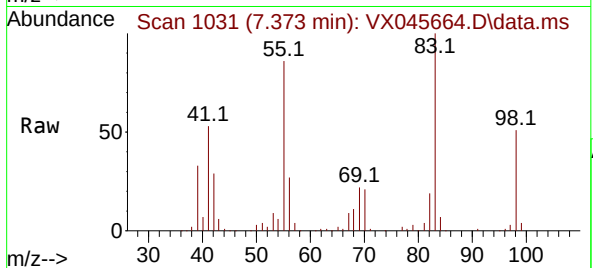
98 50.6 37.4 56.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#40

Benzene

Concen: 49.925 ug/l

RT: 6.025 min Scan# 810

Delta R.T. -0.006 min

Lab File: VX045664.D

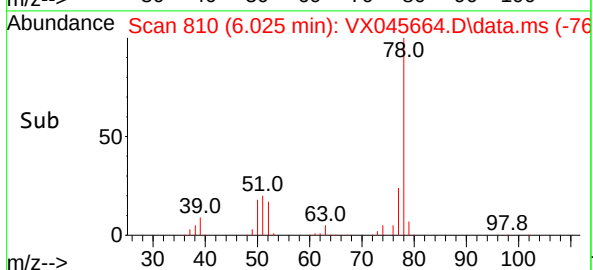
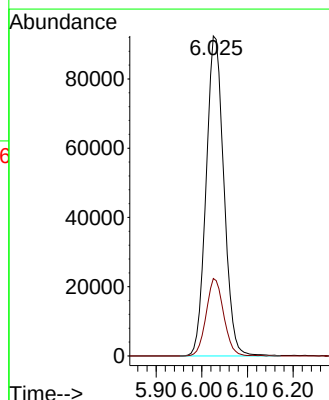
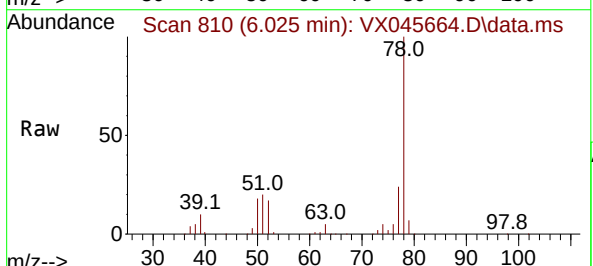
Acq: 09 Apr 2025 10:35

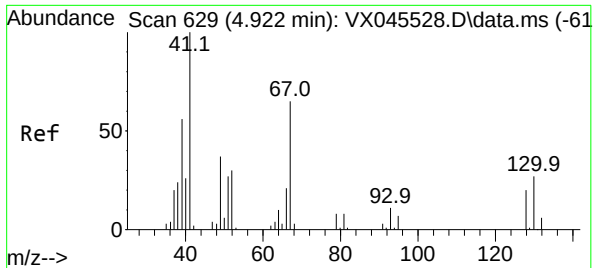
Tgt Ion: 78 Resp: 248974

Ion Ratio Lower Upper

78 100

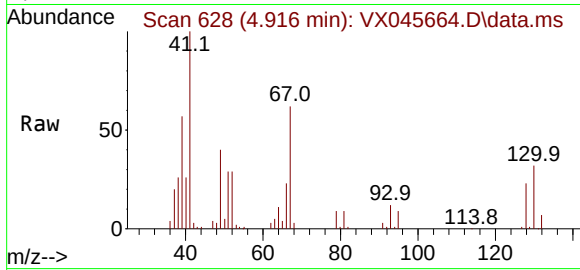
77 24.2 19.0 28.6





#41
Methacrylonitrile
Concen: 53.585 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

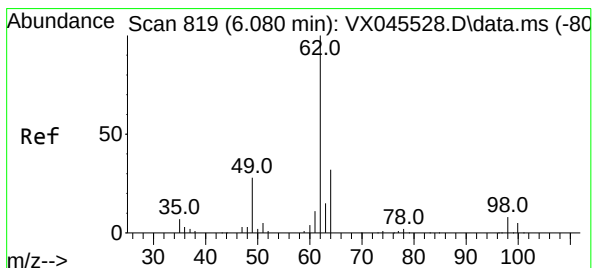
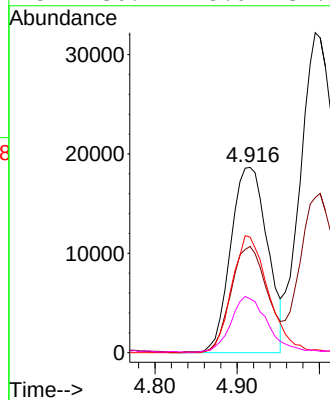
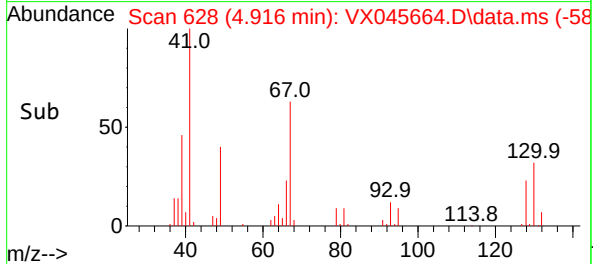
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 58179
Ion Ratio Lower Upper
41 100
39 55.8 47.0 70.6
67 63.2 53.2 79.8
52 30.9 25.0 37.6

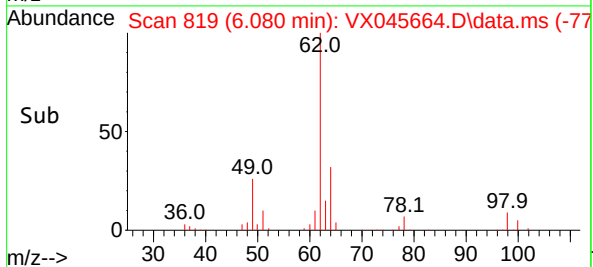
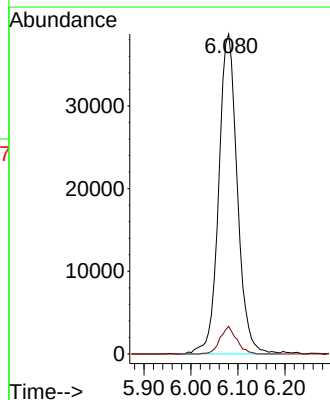
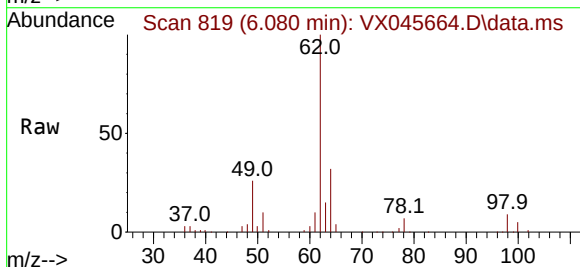
Manual Integrations
APPROVED

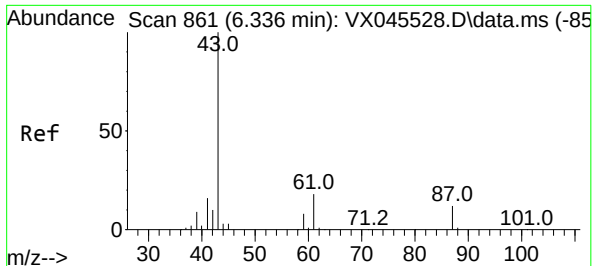
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#42
1,2-Dichloroethane
Concen: 51.791 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 62 Resp: 106676
Ion Ratio Lower Upper
62 100
98 7.7 0.0 15.2





#43

Isopropyl Acetate

Concen: 52.580 ug/l

RT: 6.336 min Scan# 80

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 16398

Ion Ratio Lower Upper

43 100

61 18.0 14.1 21.1

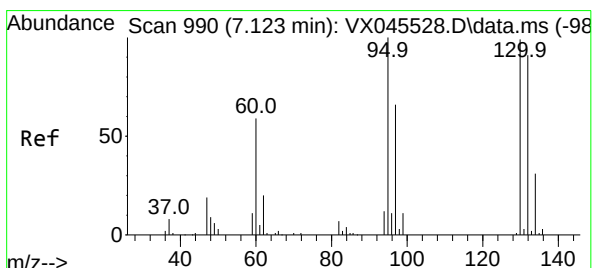
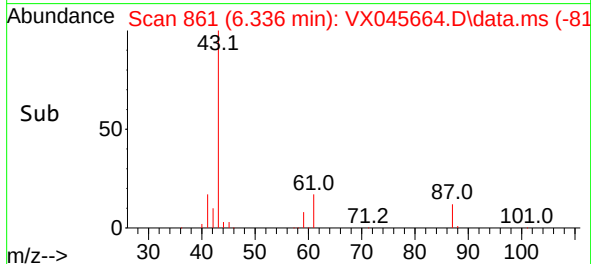
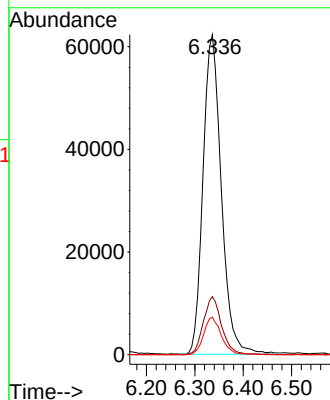
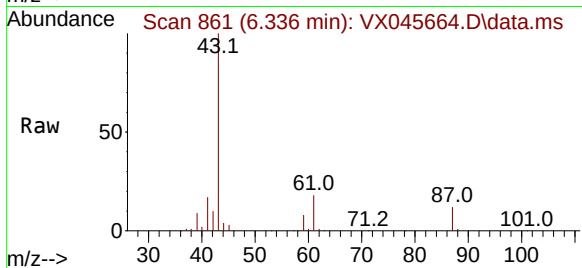
87 11.3 9.2 13.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#44

Trichloroethene

Concen: 50.518 ug/l

RT: 7.116 min Scan# 989

Delta R.T. -0.006 min

Lab File: VX045664.D

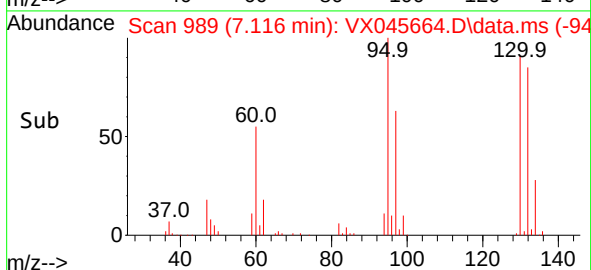
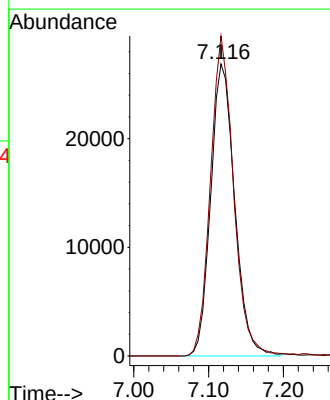
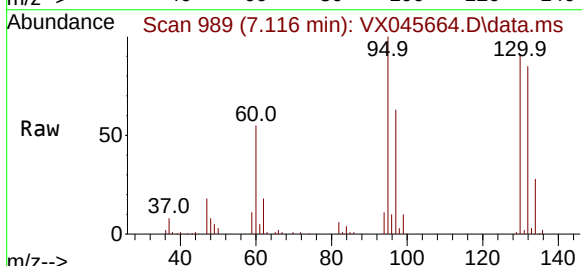
Acq: 09 Apr 2025 10:35

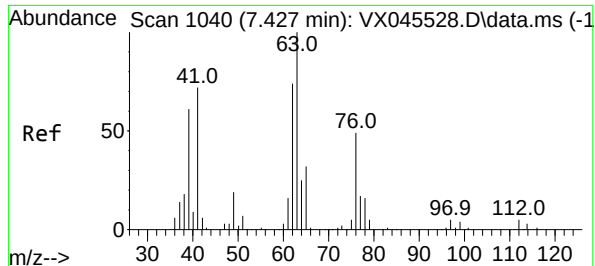
Tgt Ion:130 Resp: 59881

Ion Ratio Lower Upper

130 100

95 109.6 0.0 202.0





#45

1,2-Dichloropropane

Concen: 51.125 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 6361

Ion Ratio Lower Upper

63 100

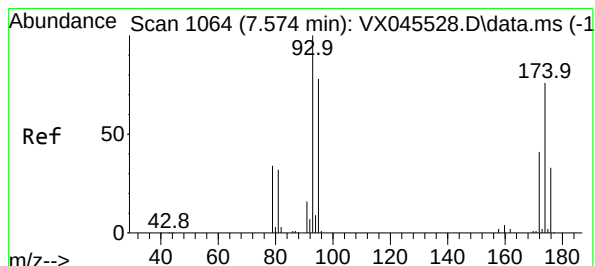
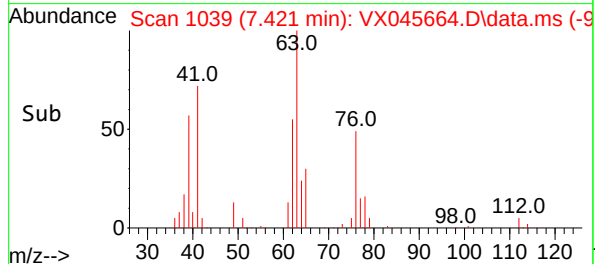
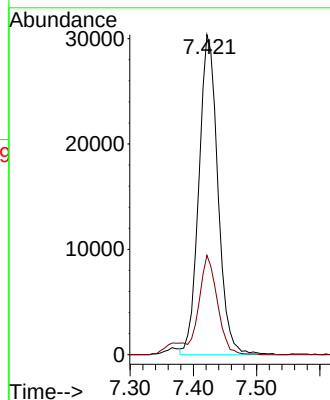
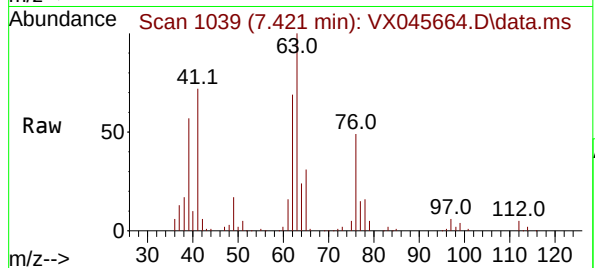
65 31.0 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#46

Dibromomethane

Concen: 51.004 ug/l

RT: 7.574 min Scan# 1064

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

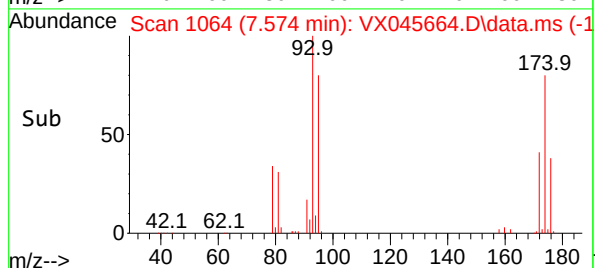
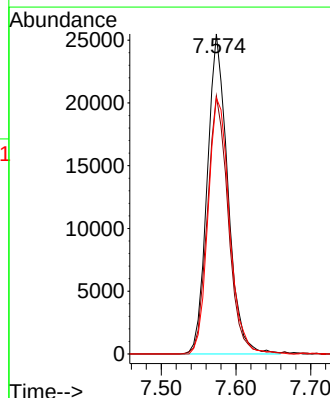
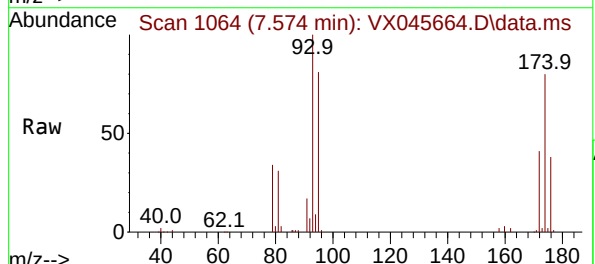
Tgt Ion: 93 Resp: 48718

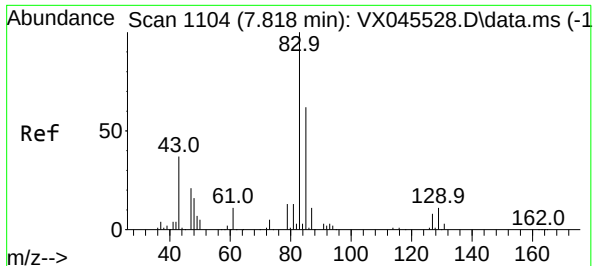
Ion Ratio Lower Upper

93 100

95 81.9 64.8 97.2

174 83.2 65.4 98.0





#47

Bromodichloromethane

Concen: 52.121 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

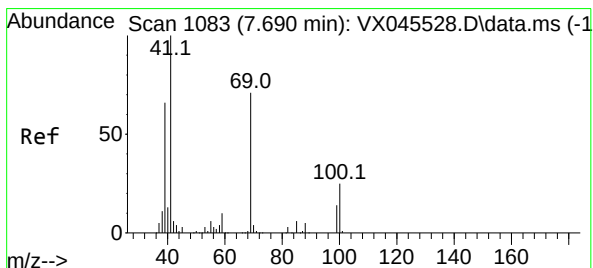
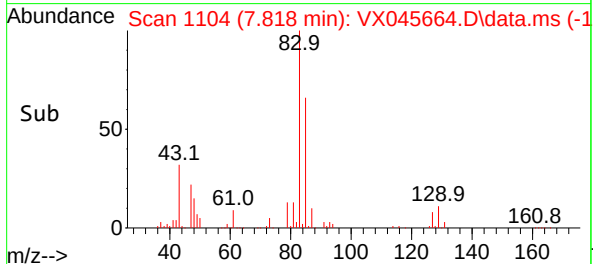
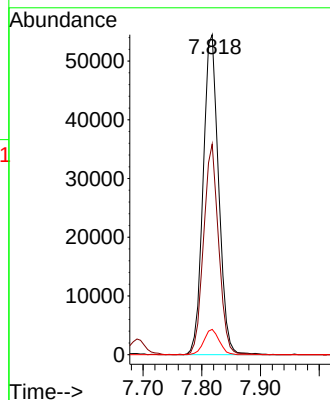
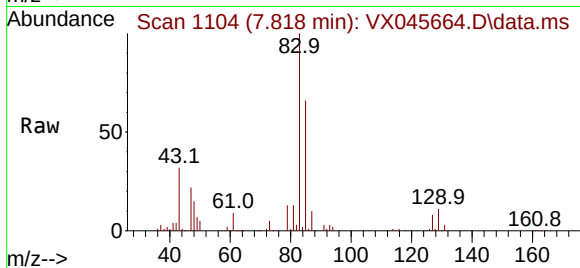
Tgt Ion:	83	Resp:	99424
Ion	Ratio	Lower	Upper
83	100		
85	65.8	49.7	74.5
127	7.9	6.1	9.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#48

Methyl methacrylate

Concen: 53.362 ug/l

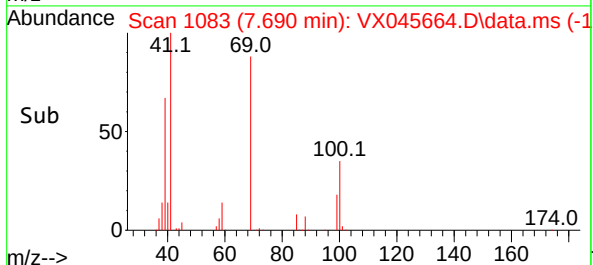
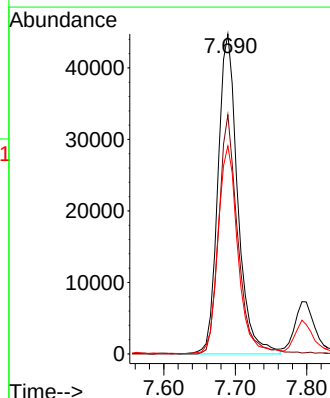
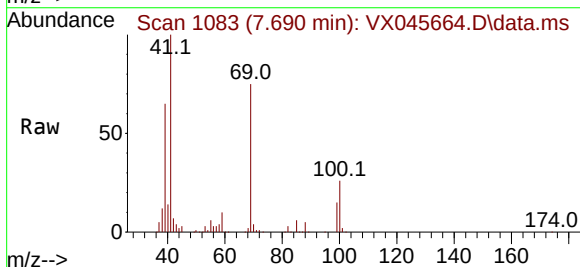
RT: 7.690 min Scan# 1083

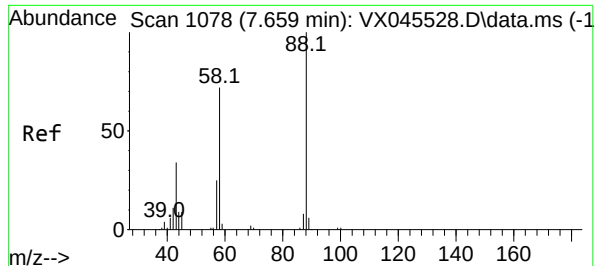
Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	41	Resp:	85929
Ion	Ratio	Lower	Upper
41	100		
69	71.7	58.2	87.2
39	66.0	53.6	80.4





#49

1,4-Dioxane

Concen: 1067.317 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

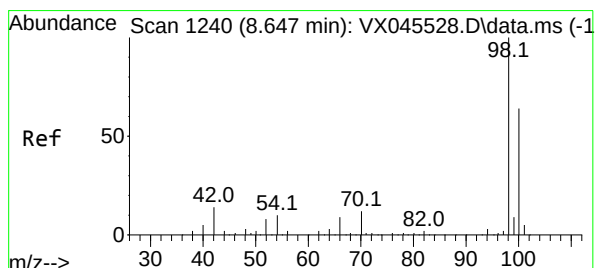
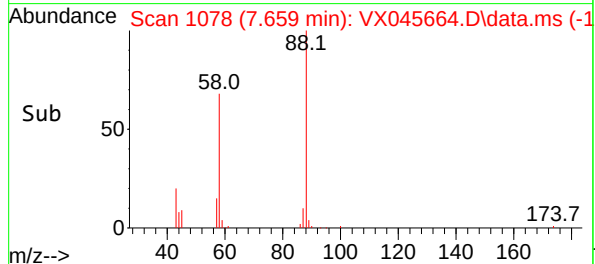
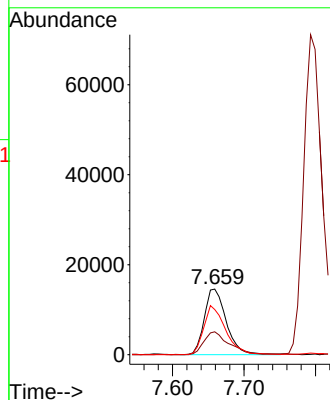
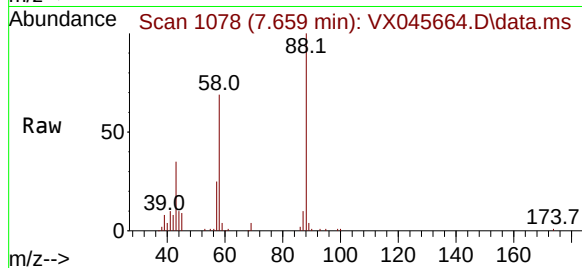
Tgt Ion:	88	Resp:	31090
Ion	Ratio	Lower	Upper
88	100		
43	40.7	32.2	48.4
58	74.5	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#50

Toluene-d8

Concen: 51.382 ug/l

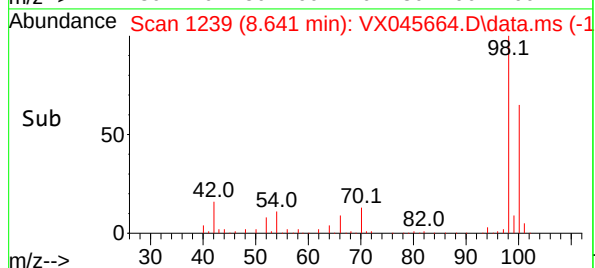
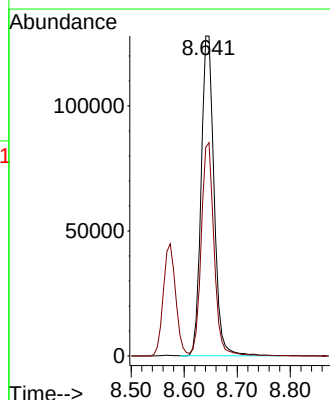
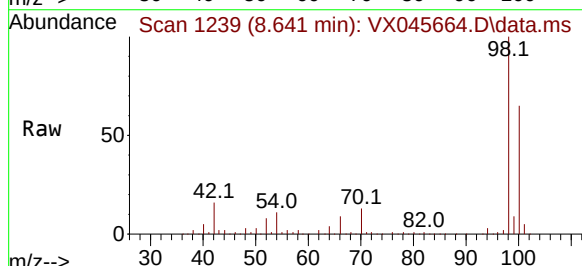
RT: 8.641 min Scan# 1239

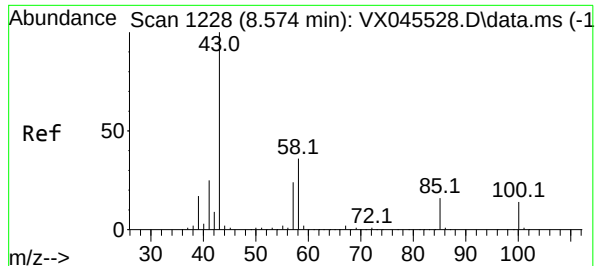
Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	98	Resp:	216891
Ion	Ratio	Lower	Upper
98	100		
100	66.1	52.2	78.4





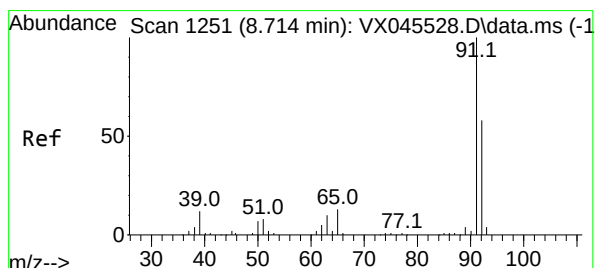
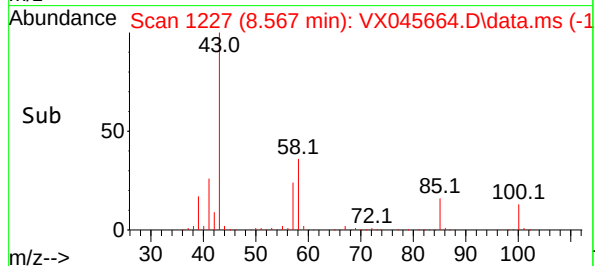
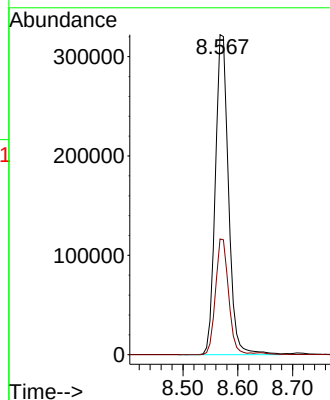
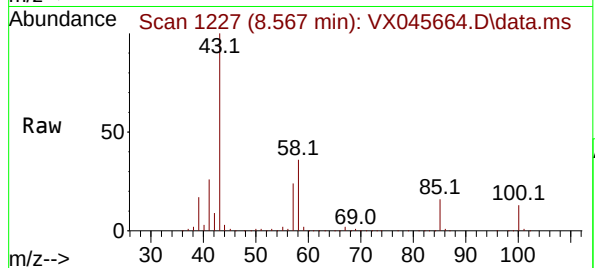
#51
4-Methyl-2-Pentanone
Concen: 259.961 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDC050

Tgt Ion: 43 Resp: 53747
Ion Ratio Lower Upper
43 100
58 35.8 28.5 42.7

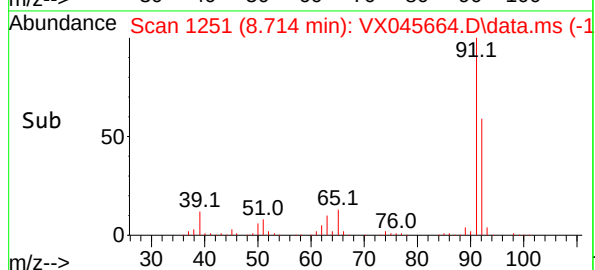
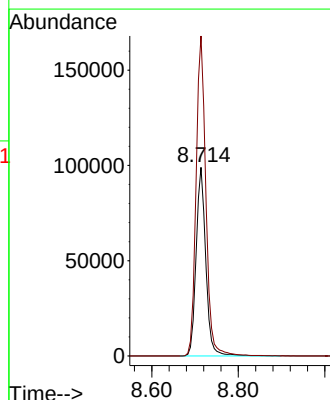
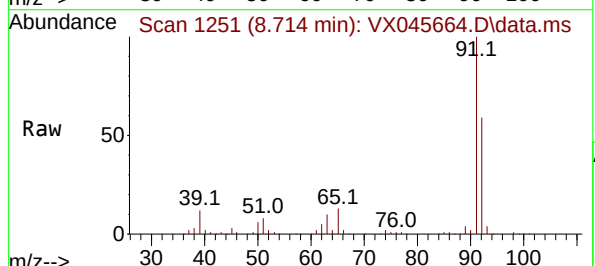
Manual Integrations
APPROVED

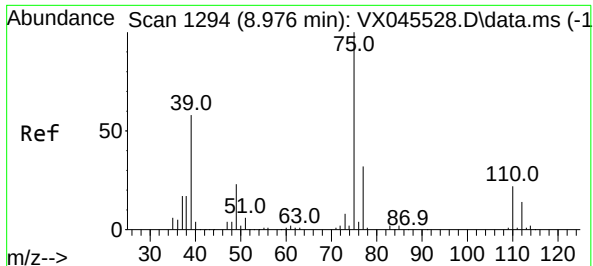
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#52
Toluene
Concen: 50.790 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 92 Resp: 153268
Ion Ratio Lower Upper
92 100
91 172.3 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 49.048 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 89889

Ion Ratio Lower Upper

75 100

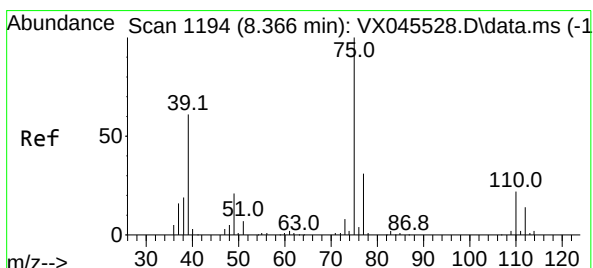
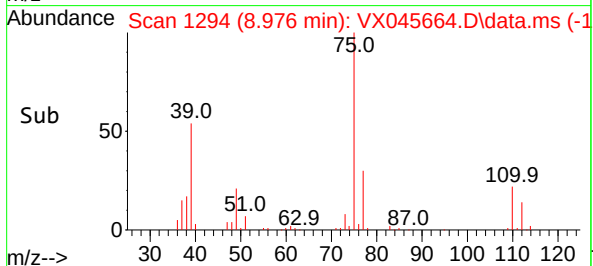
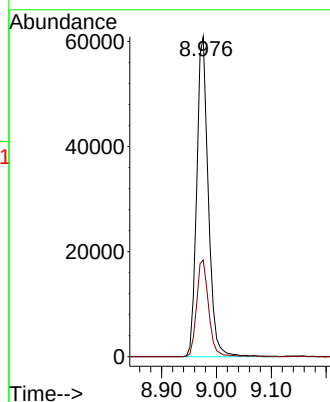
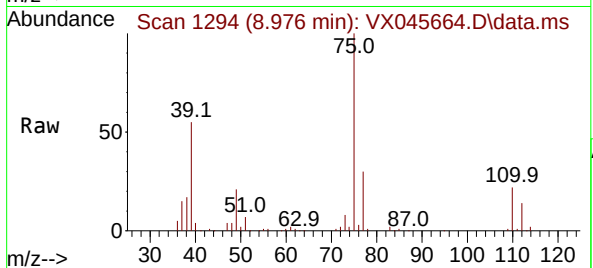
77 30.2 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#54

cis-1,3-Dichloropropene

Concen: 55.664 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

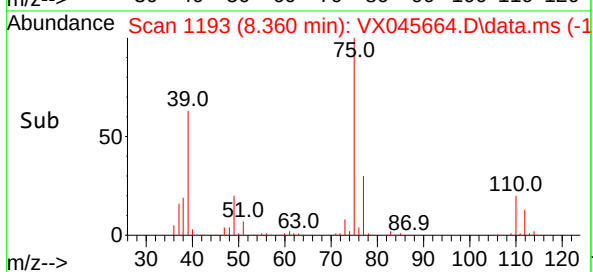
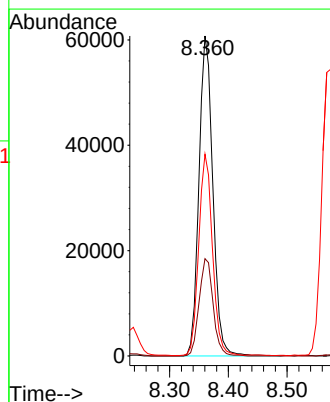
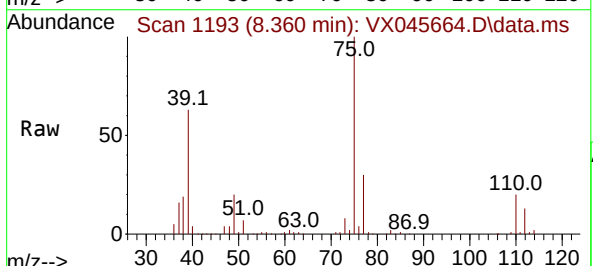
Tgt Ion: 75 Resp: 99782

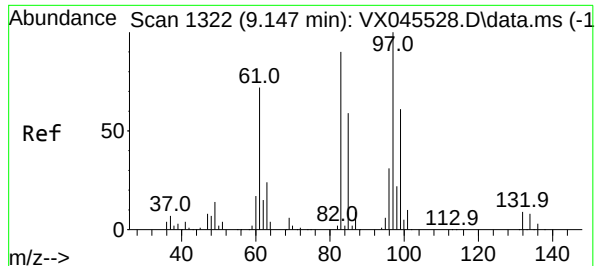
Ion Ratio Lower Upper

75 100

77 30.4 24.6 36.8

39 62.9 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 51.068 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 61409

Ion Ratio Lower Upper

97 100

83 88.6 71.8 107.8

85 56.7 47.0 70.6

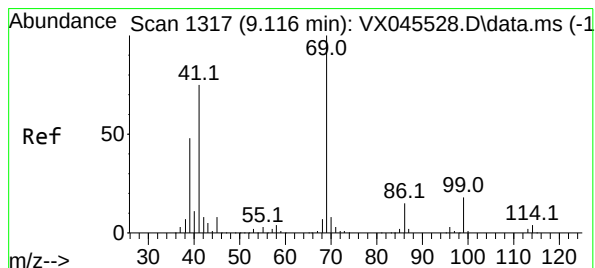
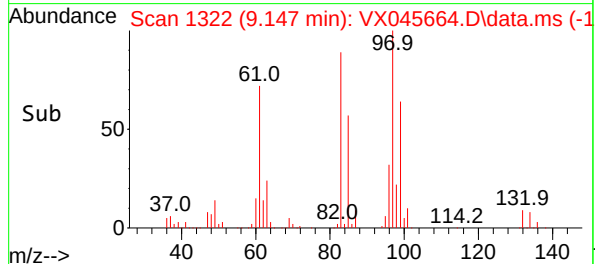
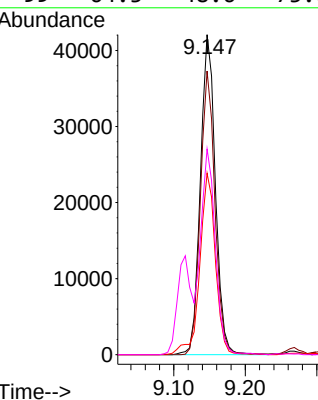
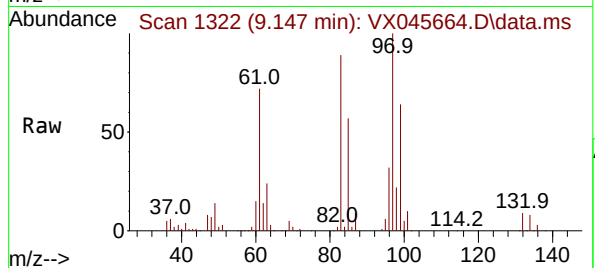
99 64.3 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#56

Ethyl methacrylate

Concen: 54.073 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

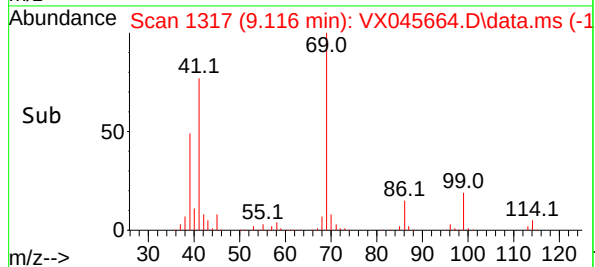
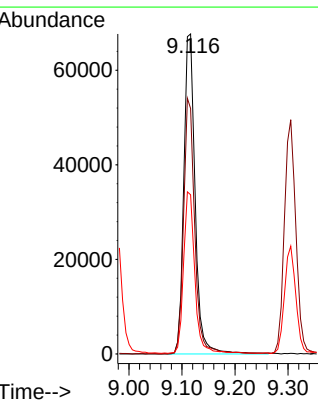
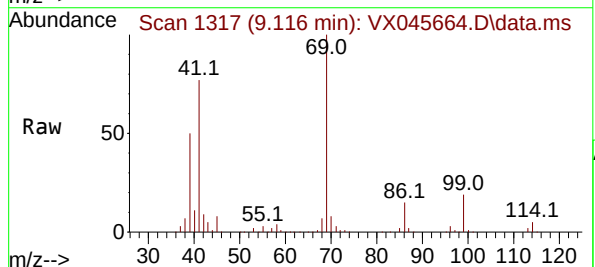
Tgt Ion: 69 Resp: 100629

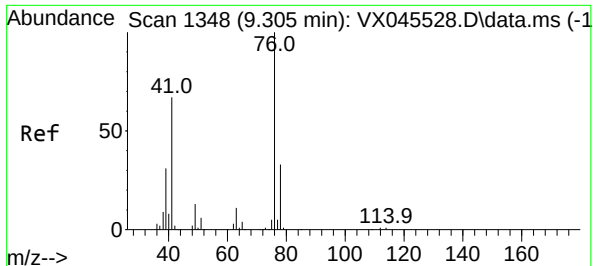
Ion Ratio Lower Upper

69 100

41 78.5 61.3 91.9

39 49.5 40.2 60.2





#57

1,3-Dichloropropane

Concen: 51.377 ug/l

RT: 9.305 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 10758

Ion Ratio Lower Upper

76 100

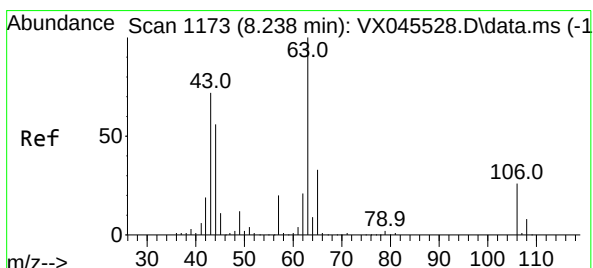
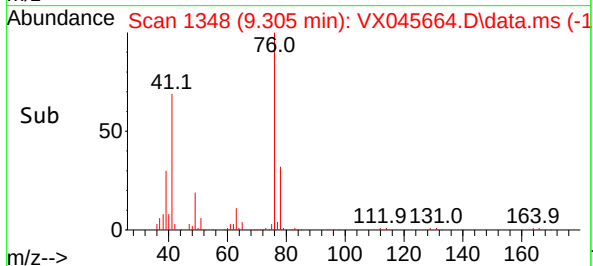
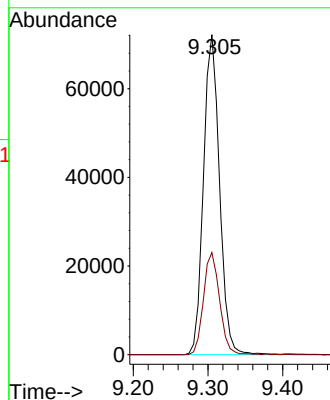
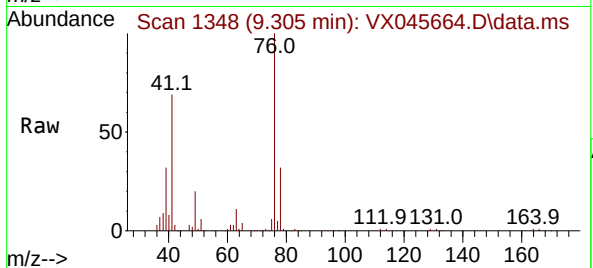
78 32.0 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#58

2-Chloroethyl Vinyl ether

Concen: 323.406 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.000 min

Lab File: VX045664.D

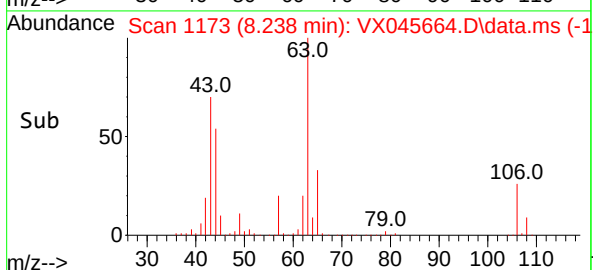
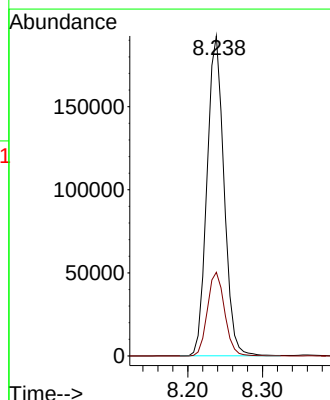
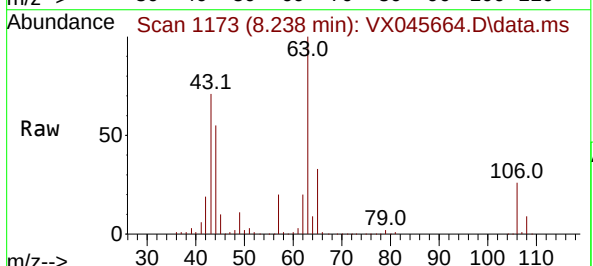
Acq: 09 Apr 2025 10:35

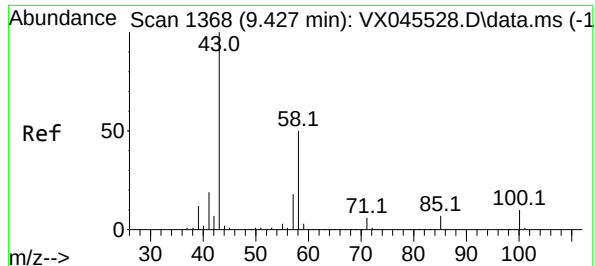
Tgt Ion: 63 Resp: 304462

Ion Ratio Lower Upper

63 100

106 26.5 21.0 31.6





#59

2-Hexanone

Concen: 261.752 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 40075

Ion Ratio Lower Upper

43 100

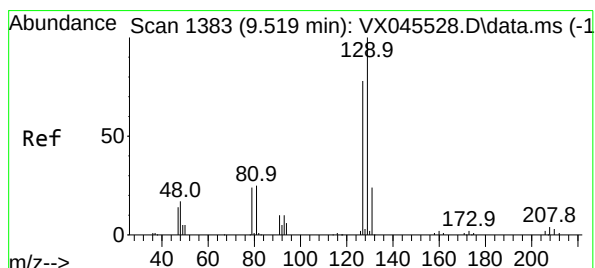
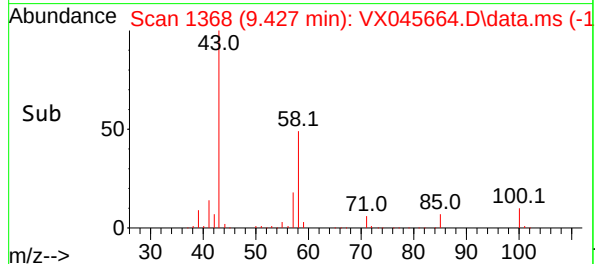
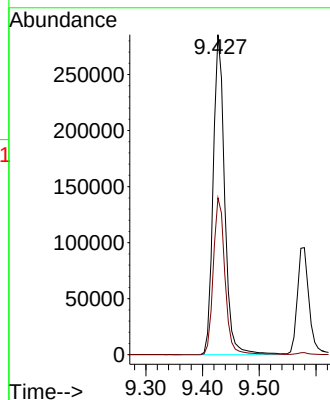
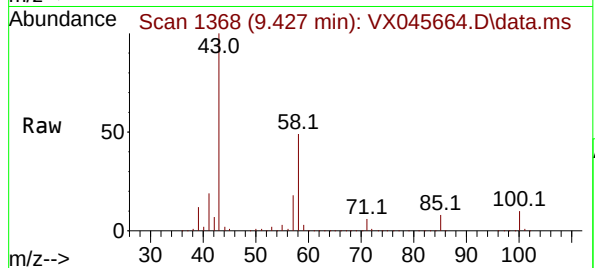
58 49.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#60

Dibromochloromethane

Concen: 53.243 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.000 min

Lab File: VX045664.D

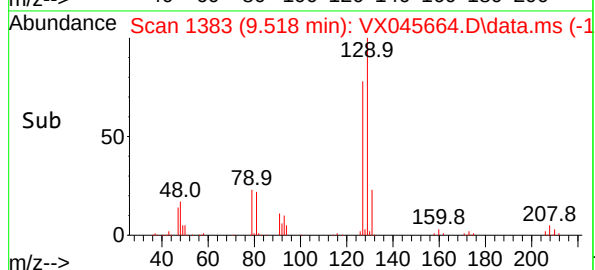
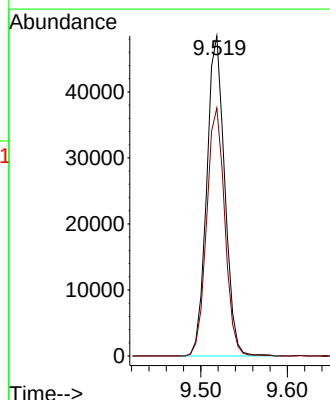
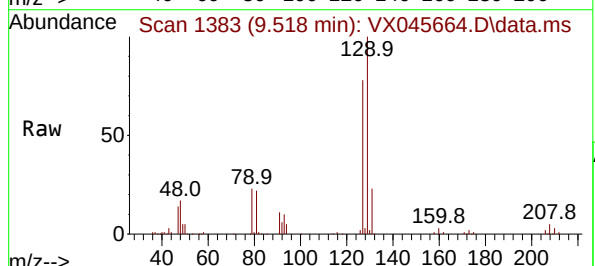
Acq: 09 Apr 2025 10:35

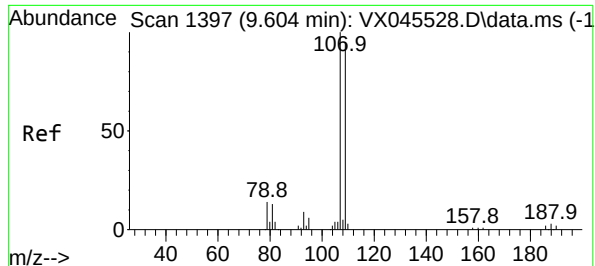
Tgt Ion:129 Resp: 69798

Ion Ratio Lower Upper

129 100

127 78.3 39.4 118.2





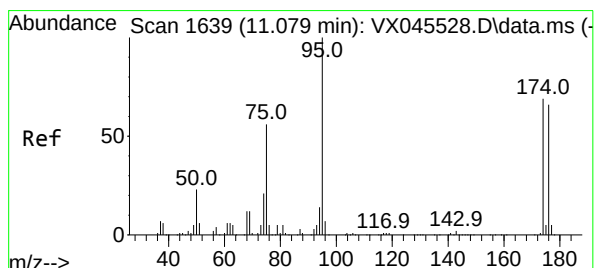
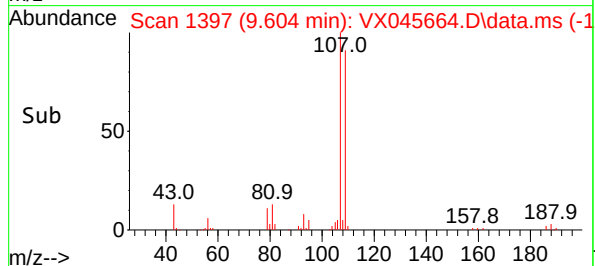
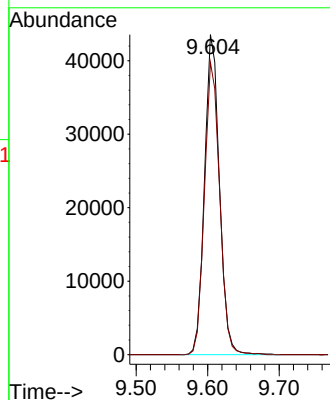
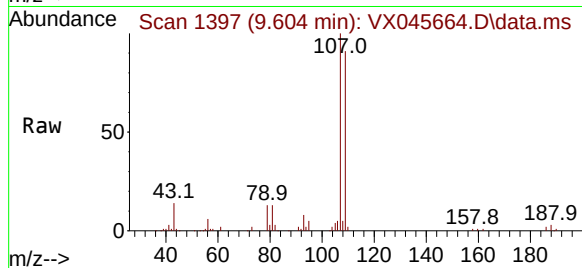
#61
1,2-Dibromoethane
Concen: 51.914 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 63194
Ion Ratio Lower Upper
107 100
109 93.3 75.7 113.5

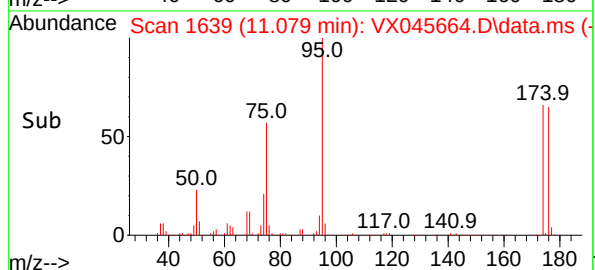
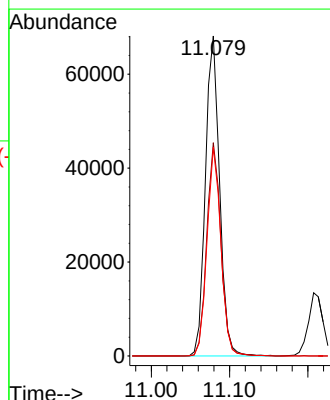
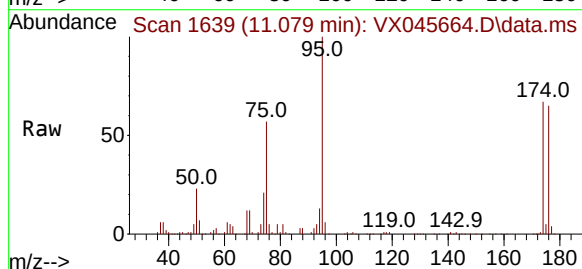
Manual Integrations
APPROVED

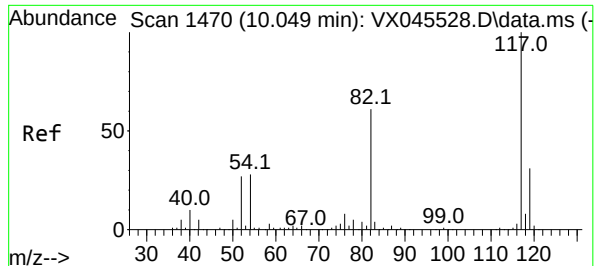
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#62
4-Bromofluorobenzene
Concen: 55.532 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 95 Resp: 85383
Ion Ratio Lower Upper
95 100
174 66.5 0.0 135.8
176 63.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:117 Resp: 147839

Ion Ratio Lower Upper

117 100

82 61.3 49.2 73.8

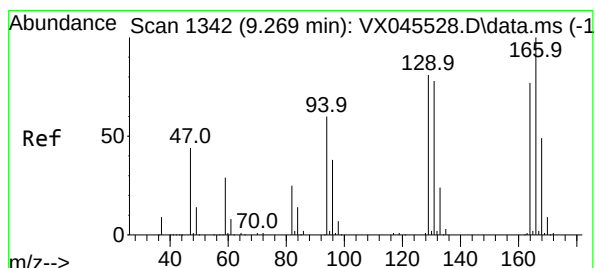
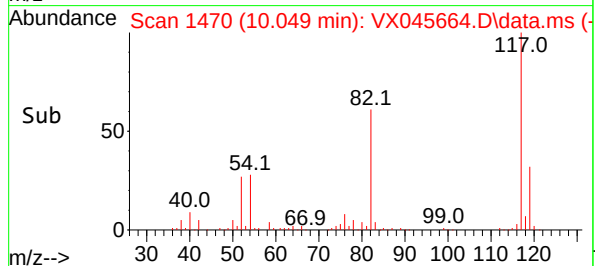
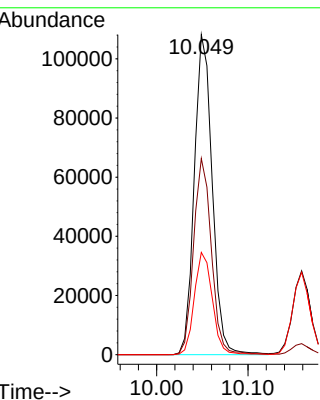
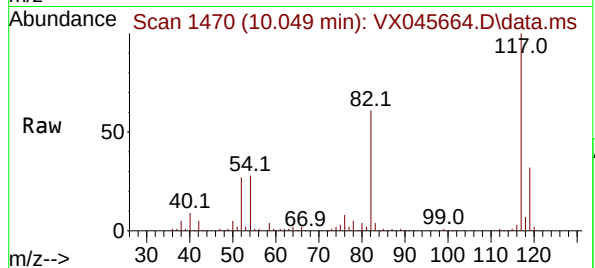
119 32.0 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#64

Tetrachloroethene

Concen: 52.870 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:164 Resp: 55185

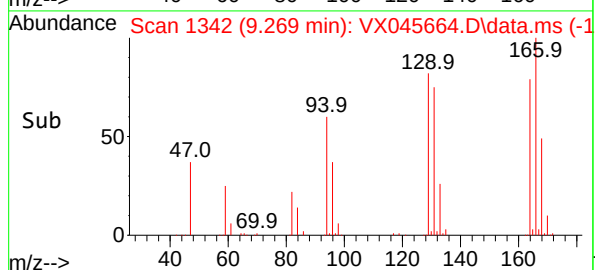
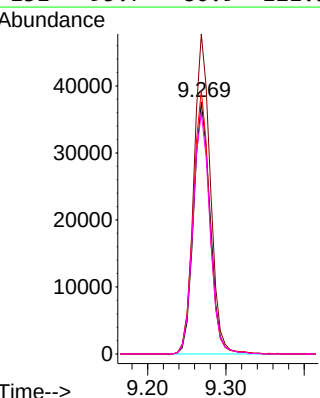
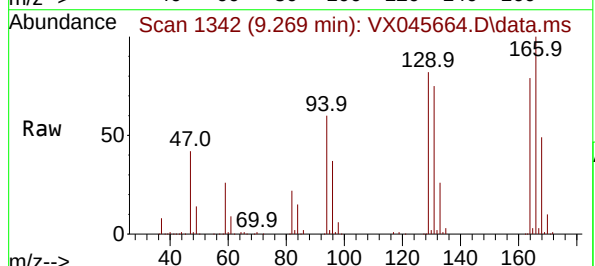
Ion Ratio Lower Upper

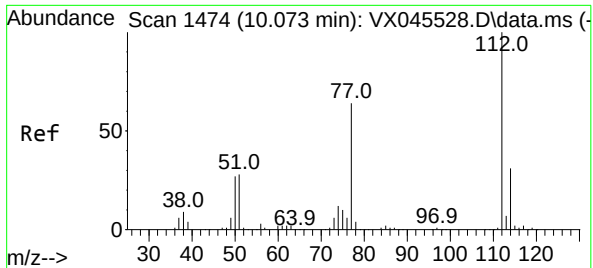
164 100

166 127.0 103.8 155.8

129 104.4 84.3 126.5

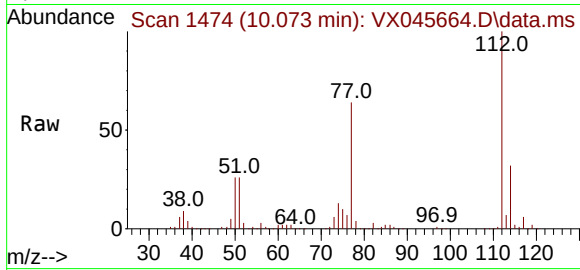
131 95.7 80.9 121.3





#65
Chlorobenzene
Concen: 52.332 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

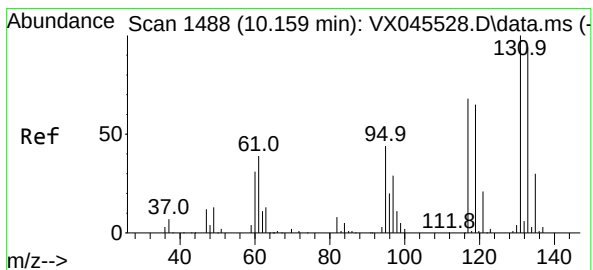
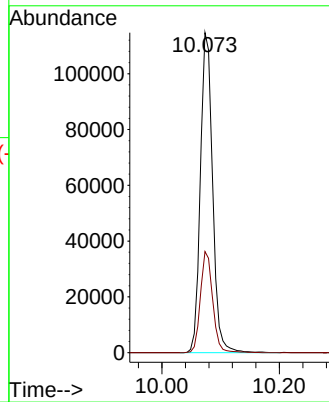
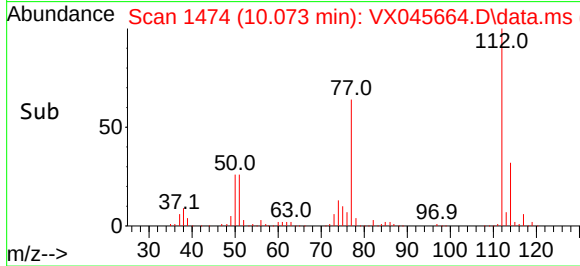
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:112 Resp: 165320
Ion Ratio Lower Upper
112 100
114 31.6 24.7 37.1

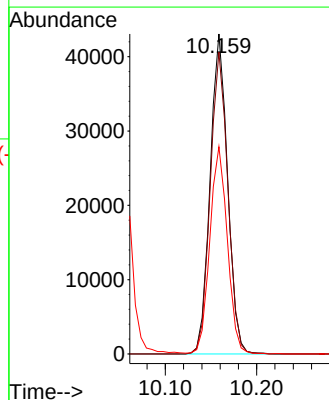
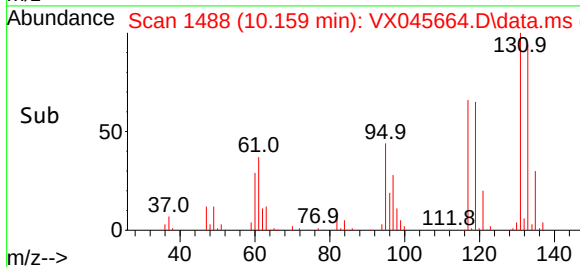
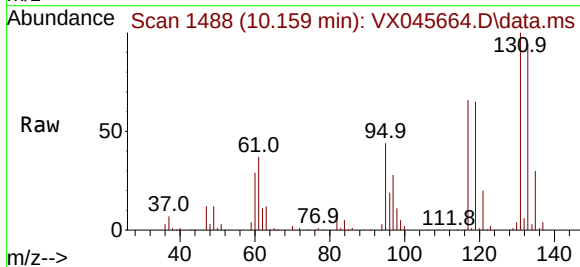
Manual Integrations
APPROVED

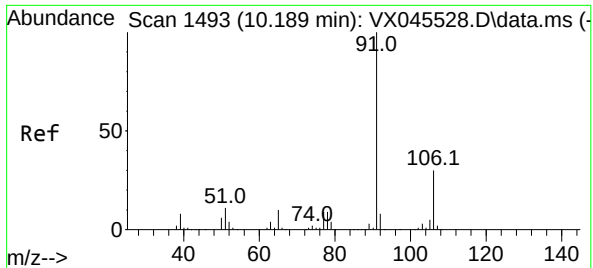
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 51.972 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

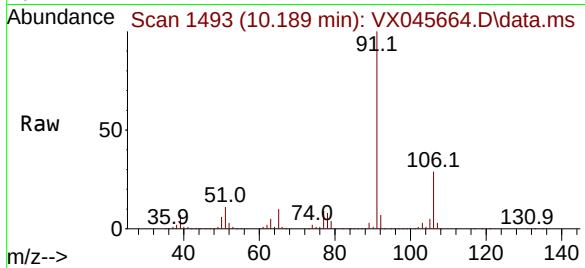
Tgt Ion:131 Resp: 57001
Ion Ratio Lower Upper
131 100
133 95.3 47.5 142.5
119 65.0 32.9 98.6





#67
Ethyl Benzene
Concen: 53.143 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

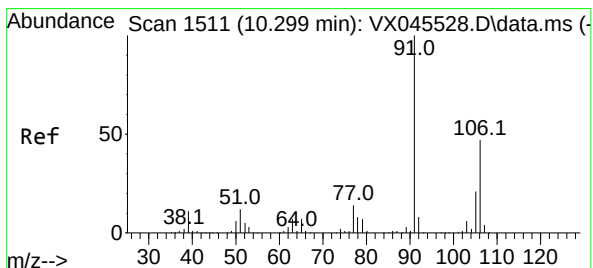
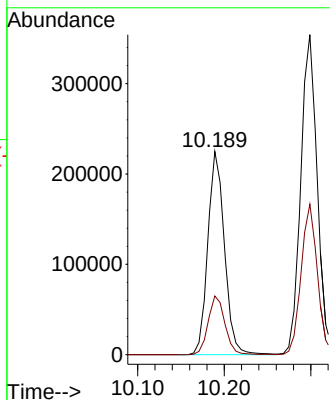
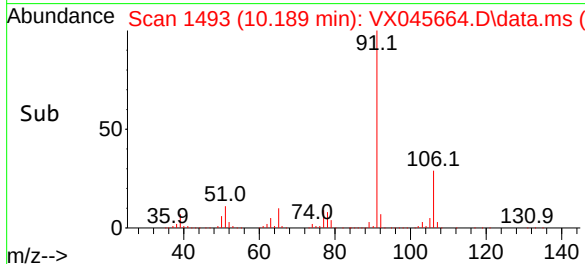
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 300672
Ion Ratio Lower Upper
91 100
106 28.9 23.7 35.5

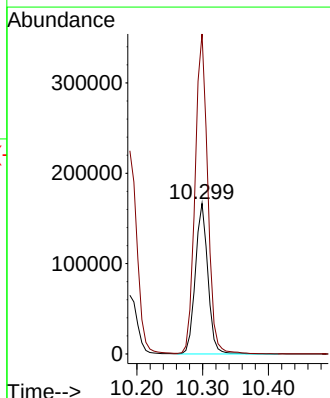
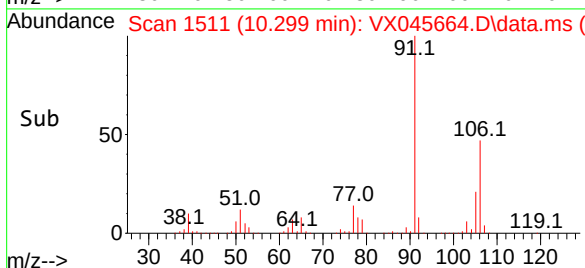
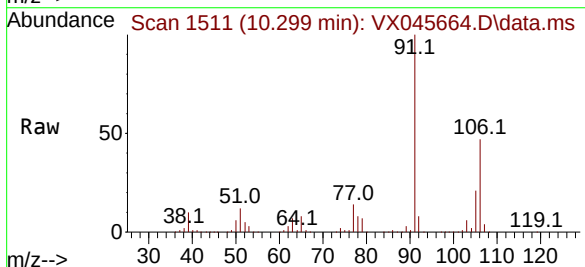
Manual Integrations
APPROVED

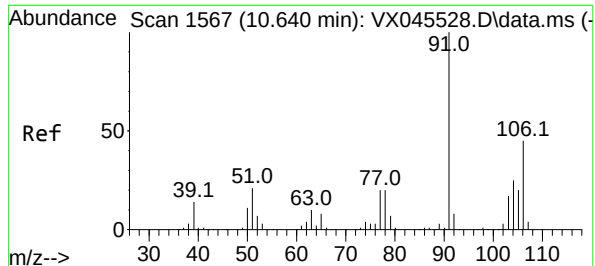
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
m/p-Xylenes
Concen: 106.594 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion:106 Resp: 219352
Ion Ratio Lower Upper
106 100
91 215.4 172.6 258.8





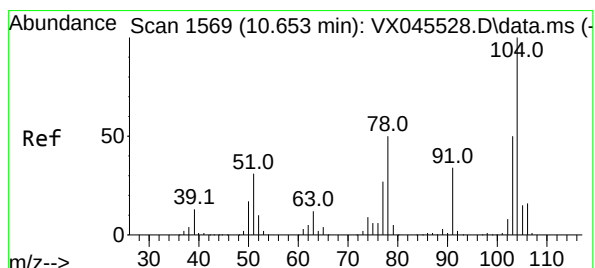
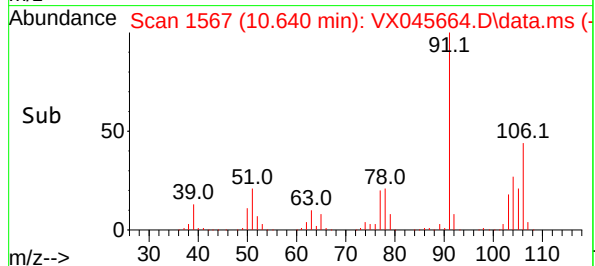
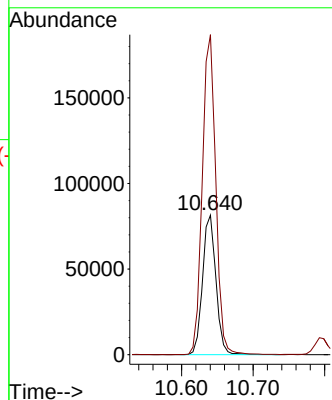
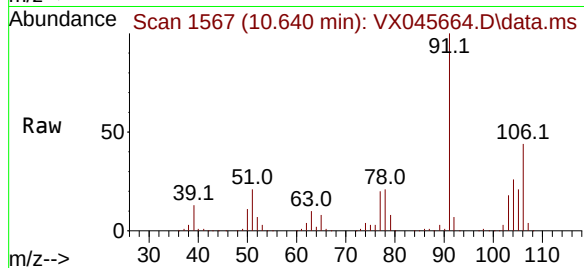
#69
o-Xylene
Concen: 52.190 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 105799
Ion Ratio Lower Upper
106 100
91 231.2 113.6 340.6

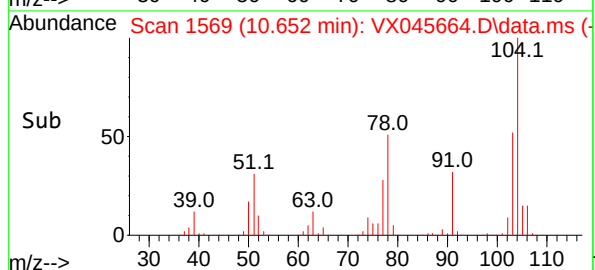
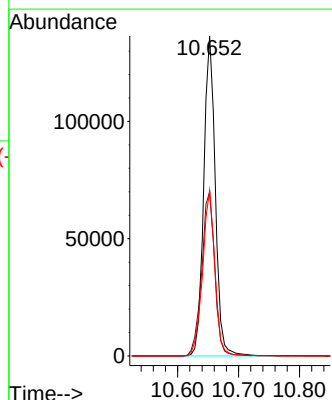
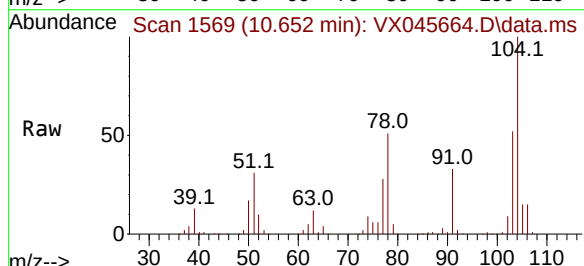
Manual Integrations
APPROVED

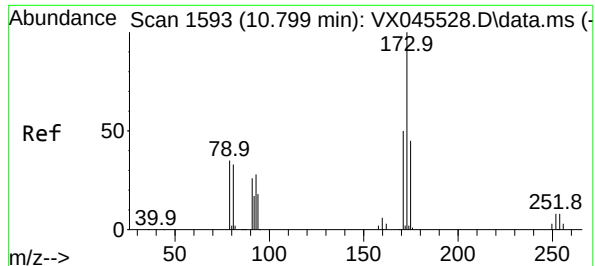
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#70
Styrene
Concen: 54.118 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion:104 Resp: 181071
Ion Ratio Lower Upper
104 100
78 57.7 45.4 68.2
103 55.5 43.8 65.8





#71

Bromoform

Concen: 54.578 ug/l

RT: 10.799 min Scan# 1593

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:173 Resp: 4469

Ion Ratio Lower Upper

173 100

175 49.0 23.4 70.2

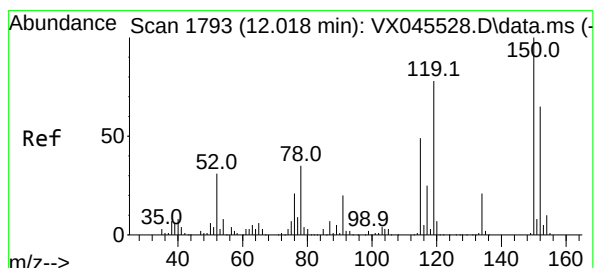
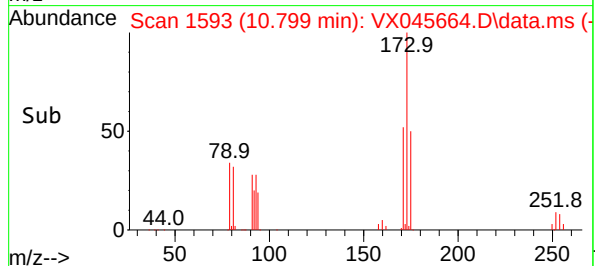
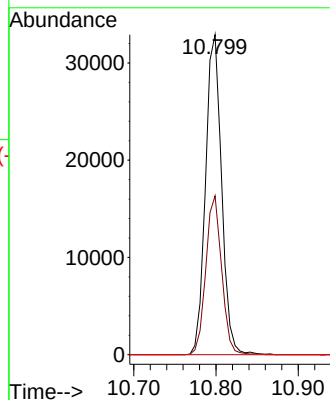
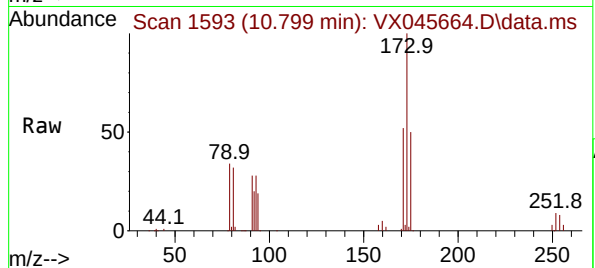
254 0.0 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

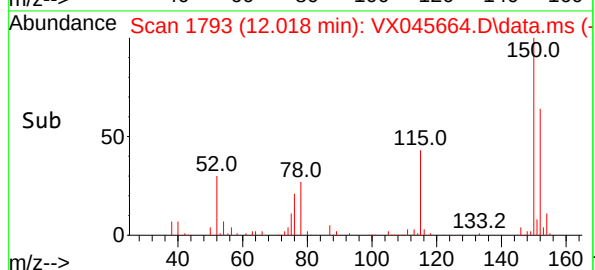
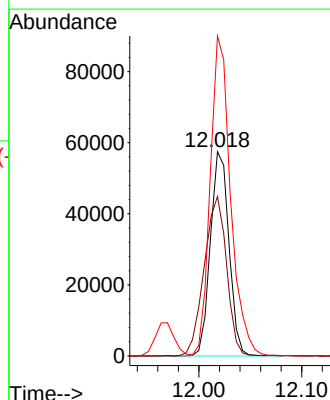
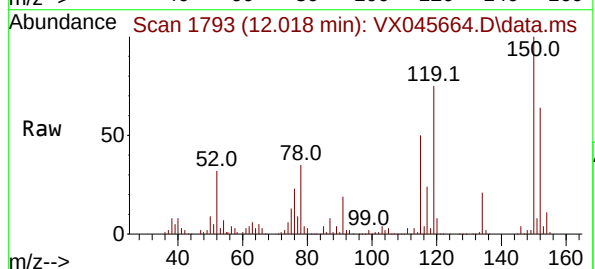
Tgt Ion:152 Resp: 71972

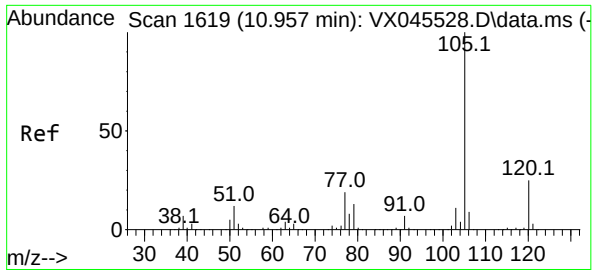
Ion Ratio Lower Upper

152 100

115 94.5 46.9 140.7

150 172.3 0.0 349.4





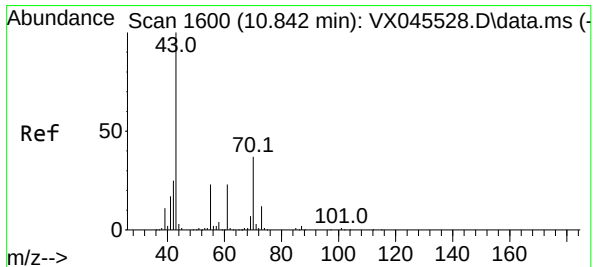
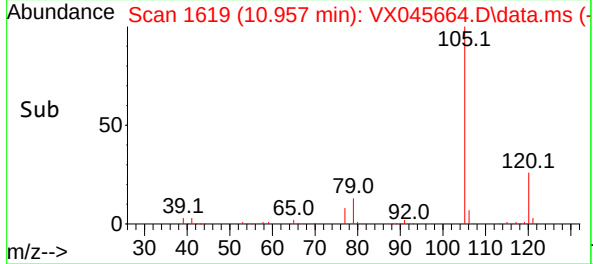
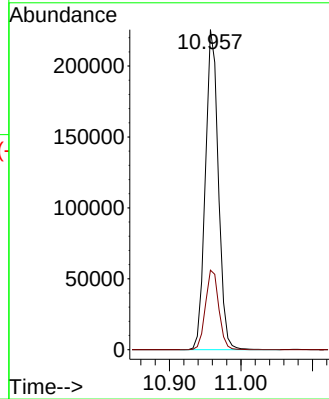
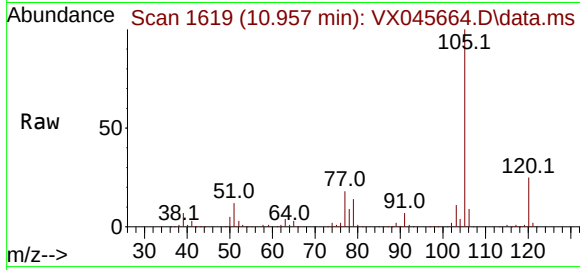
#73
Isopropylbenzene
Concen: 49.428 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 28495
Ion Ratio Lower Upper
105 100
120 25.6 12.7 38.0

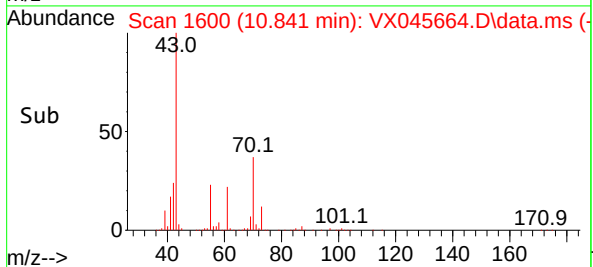
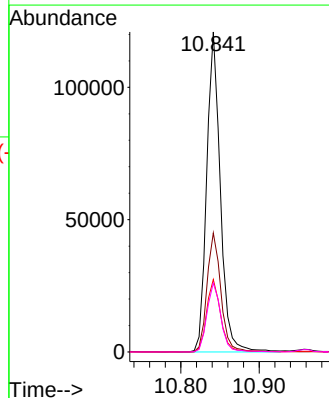
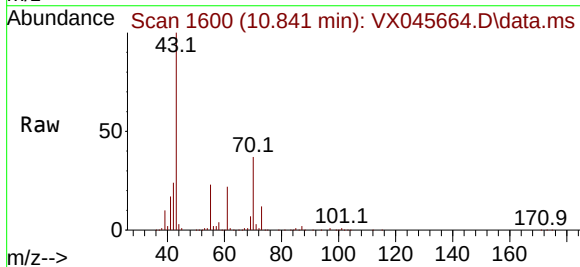
Manual Integrations
APPROVED

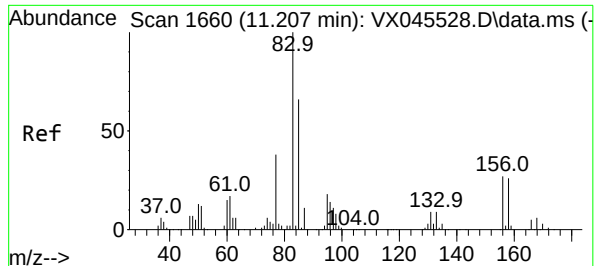
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#74
N-ethyl acetate
Concen: 52.979 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 43 Resp: 146100
Ion Ratio Lower Upper
43 100
70 37.9 30.1 45.1
55 23.5 18.3 27.5
61 21.9 17.5 26.3





#75

1,1,2,2-Tetrachloroethane

Concen: 47.526 ug/l

RT: 11.207 min Scan# 1660

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

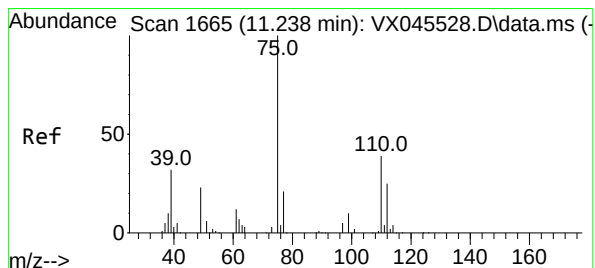
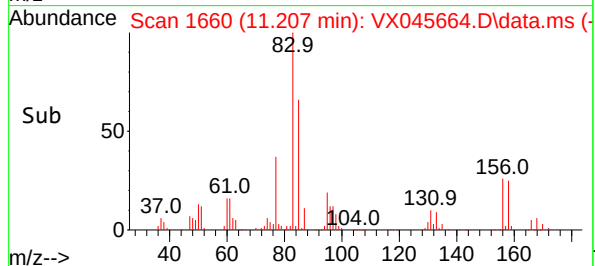
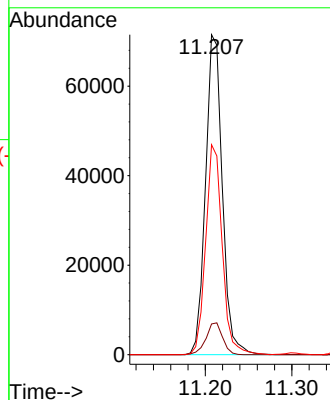
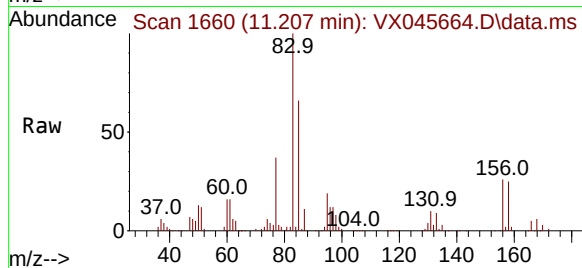
Tgt Ion:	83	Resp:	96249
Ion	Ratio	Lower	Upper
83	100		
131	9.9	4.7	14.1
85	64.7	32.4	97.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#76

1,2,3-Trichloropropane

Concen: 48.651 ug/l m

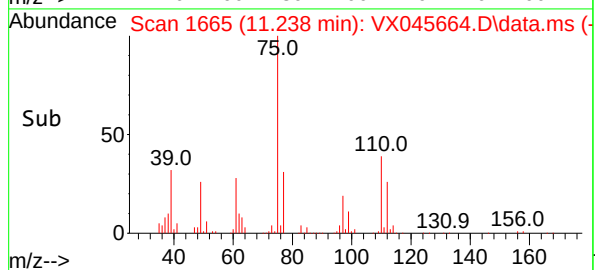
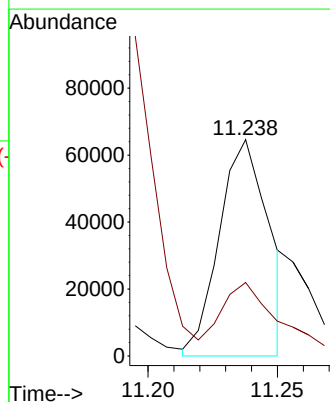
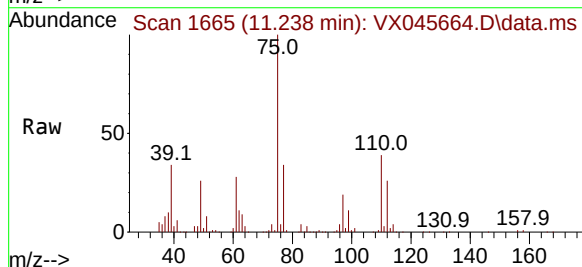
RT: 11.238 min Scan# 1665

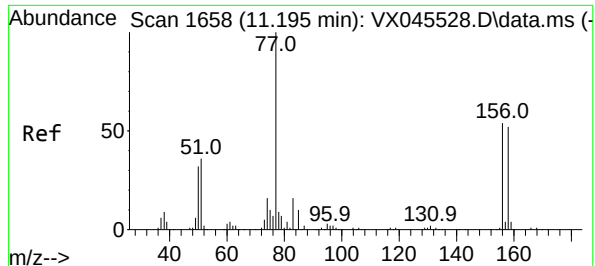
Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	75	Resp:	85411
Ion	Ratio	Lower	Upper
75	100		
77	40.8	20.0	59.9





#77

Bromobenzene

Concen: 49.171 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

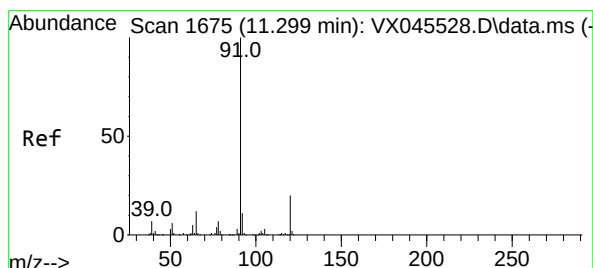
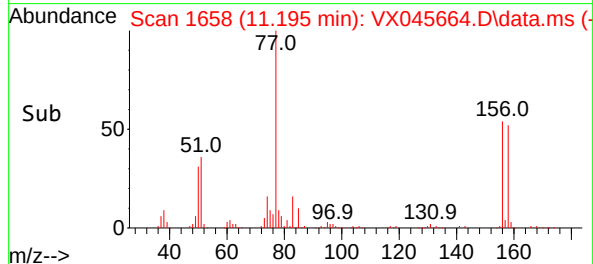
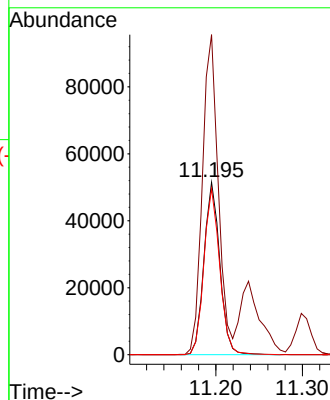
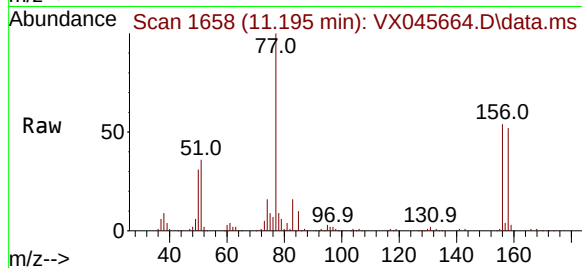
Tgt Ion:	156	Resp:	65498
Ion Ratio	Lower	Upper	
156	100		
77	186.1	92.6	277.8
158	96.4	48.1	144.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#78

n-propylbenzene

Concen: 50.914 ug/l

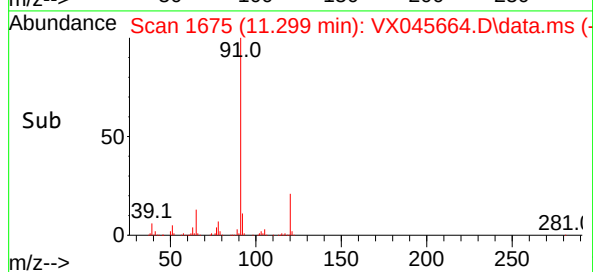
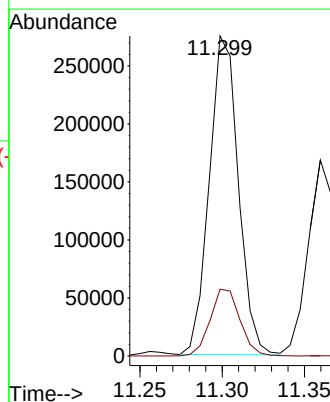
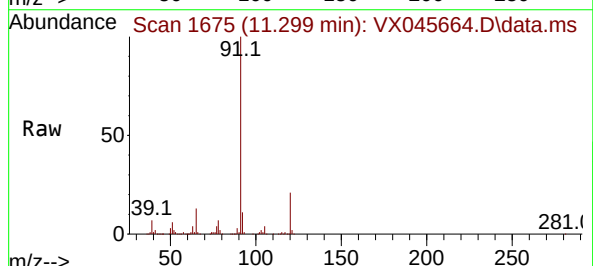
RT: 11.299 min Scan# 1675

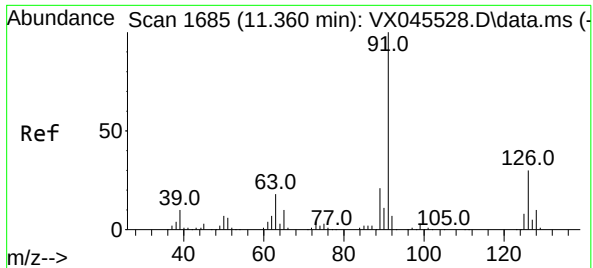
Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	91	Resp:	338085
Ion Ratio	Lower	Upper	
91	100		
120	21.5	10.8	32.3





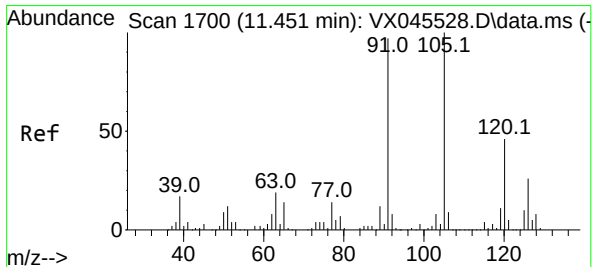
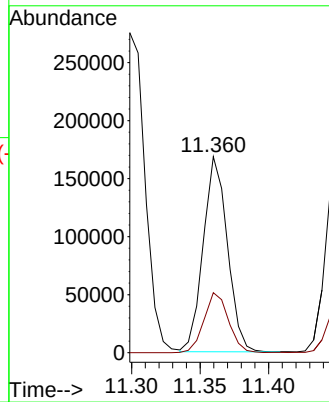
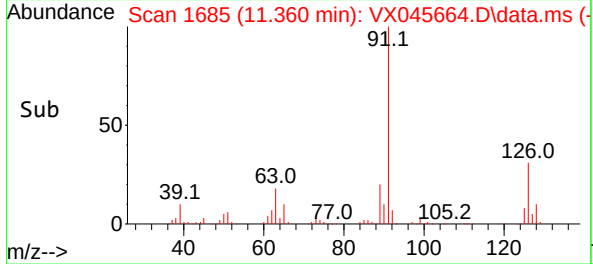
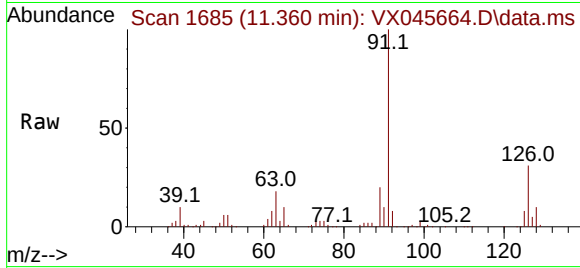
#79
2-Chlorotoluene
Concen: 48.724 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 206840
Ion Ratio Lower Upper
91 100
126 31.1 15.8 47.4

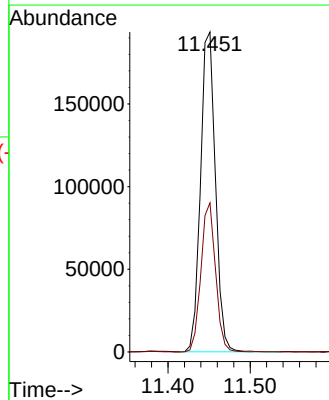
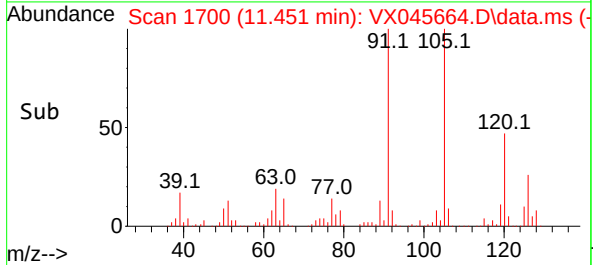
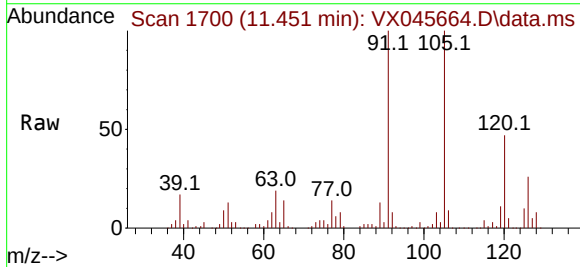
Manual Integrations
APPROVED

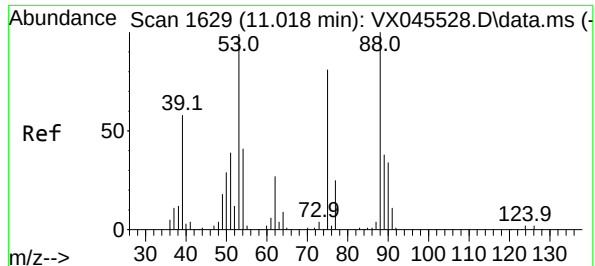
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#80
1,3,5-Trimethylbenzene
Concen: 51.048 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion:105 Resp: 243354
Ion Ratio Lower Upper
105 100
120 45.8 23.0 69.0





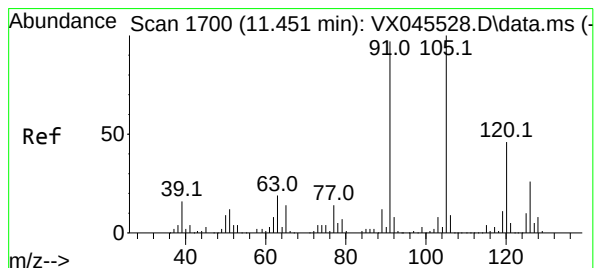
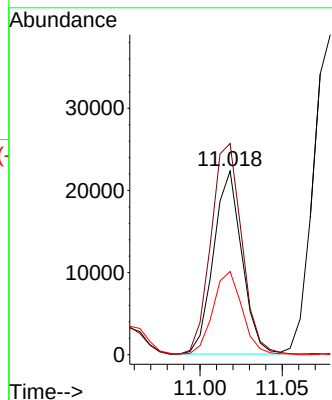
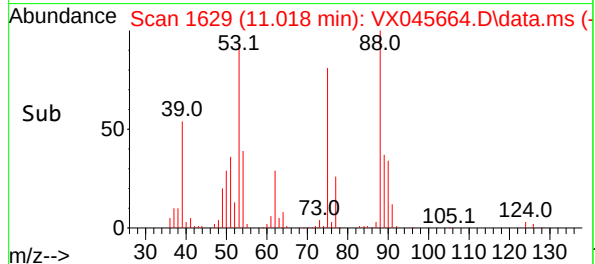
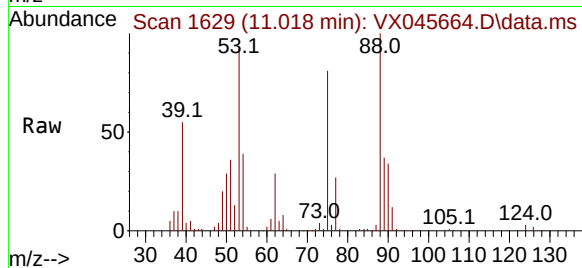
#81
trans-1,4-Dichloro-2-butene
Concen: 51.822 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 26800
Ion Ratio Lower Upper
75 100
53 125.0 101.8 152.6
89 47.0 37.2 55.8

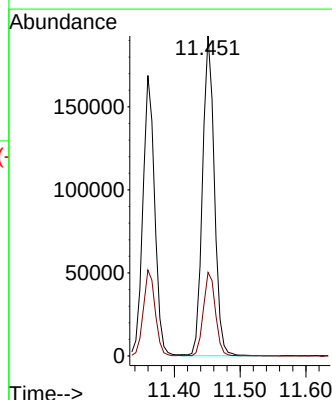
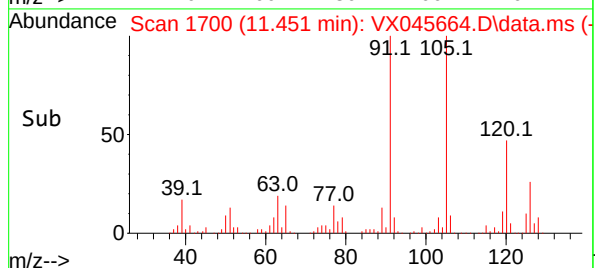
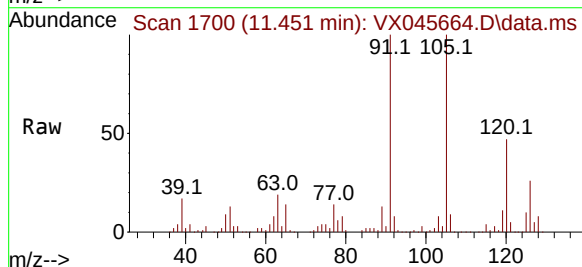
Manual Integrations
APPROVED

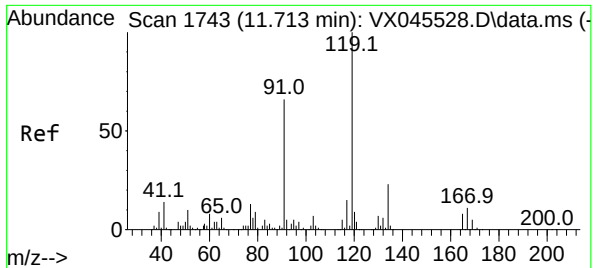
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#82
4-Chlorotoluene
Concen: 50.904 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

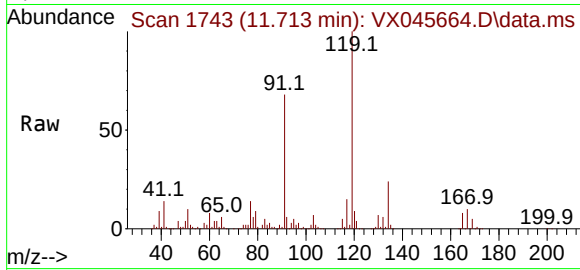
Tgt Ion: 91 Resp: 240935
Ion Ratio Lower Upper
91 100
126 26.8 13.3 39.9





#83
tert-Butylbenzene
Concen: 50.257 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

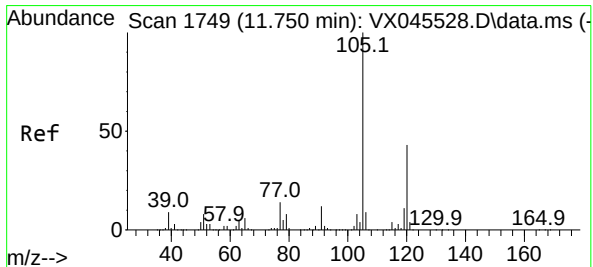
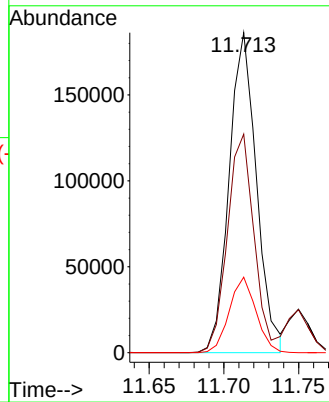
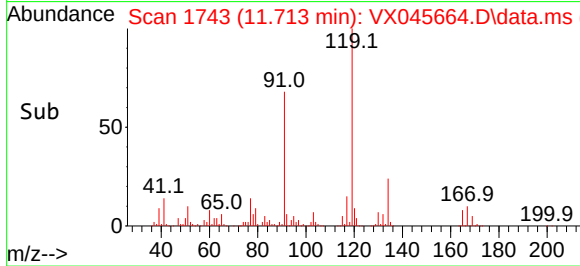
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



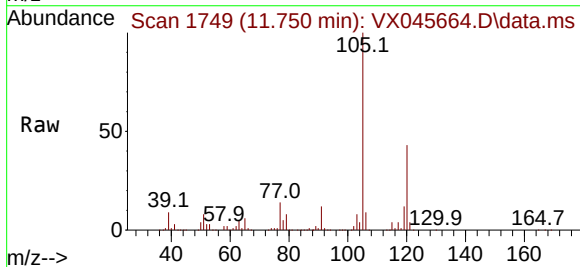
Tgt Ion:119 Resp: 237194
Ion Ratio Lower Upper
119 100
91 65.8 32.4 97.2
134 23.0 11.5 34.5

Manual Integrations
APPROVED

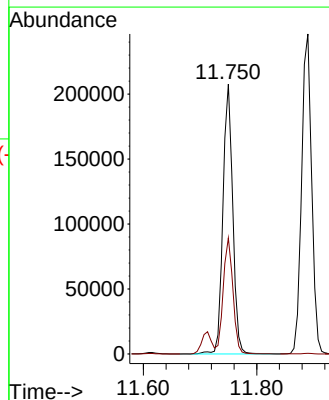
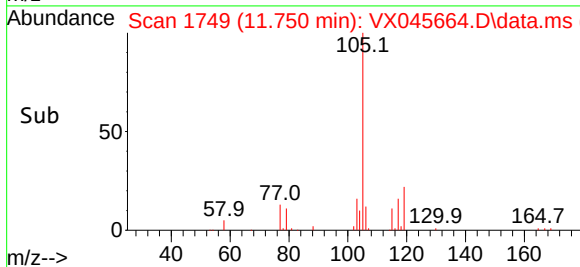
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

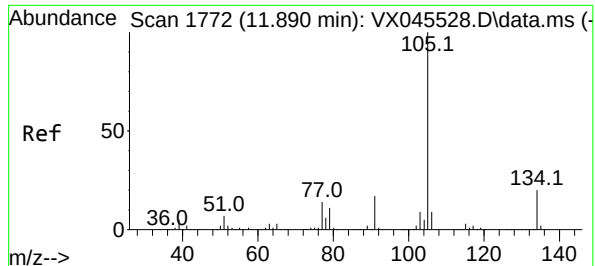


#84
1,2,4-Trimethylbenzene
Concen: 51.990 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35



Tgt Ion:105 Resp: 248759
Ion Ratio Lower Upper
105 100
120 42.8 21.4 64.3





#85

sec-Butylbenzene

Concen: 52.168 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 302409

Ion Ratio Lower Upper

105 100

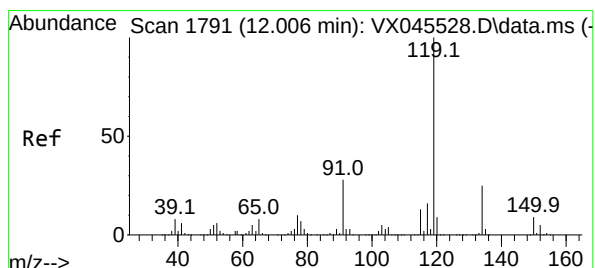
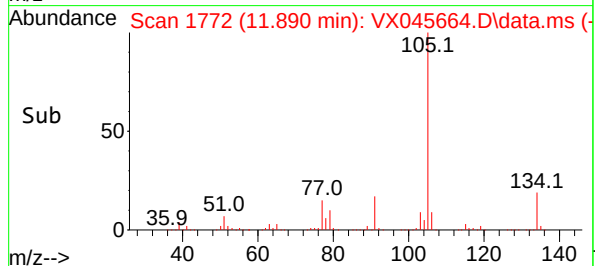
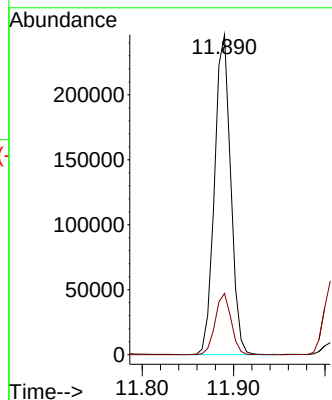
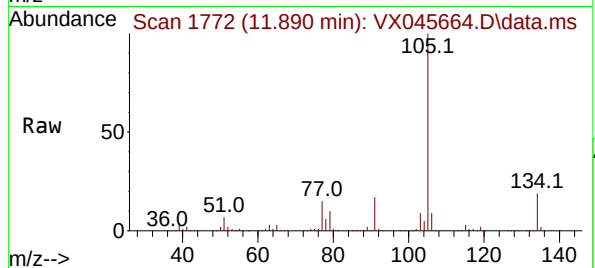
134 18.9 9.6 28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#86

p-Isopropyltoluene

Concen: 52.986 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

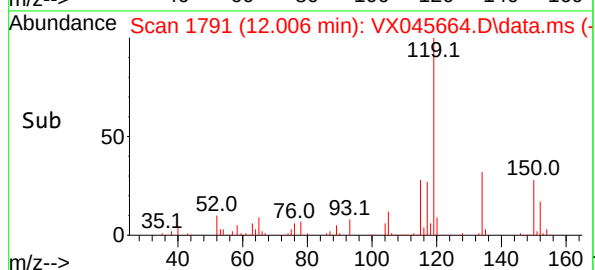
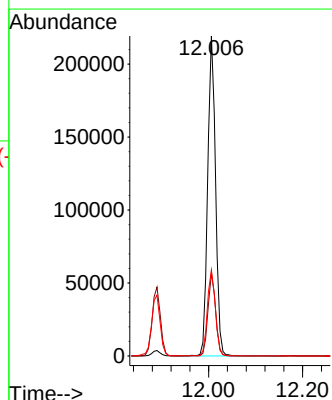
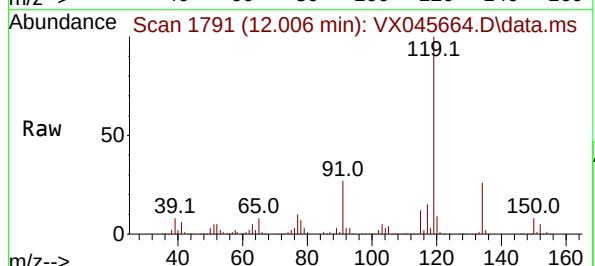
Tgt Ion:119 Resp: 253229

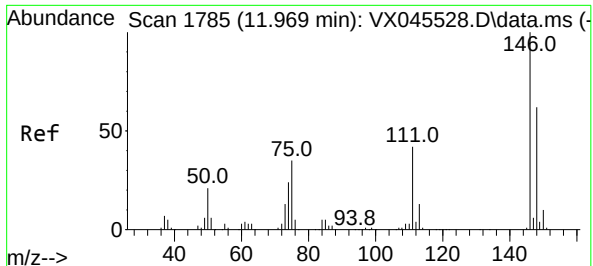
Ion Ratio Lower Upper

119 100

134 25.2 12.6 37.8

91 27.3 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 50.521 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

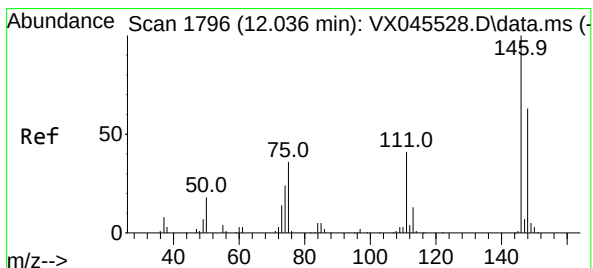
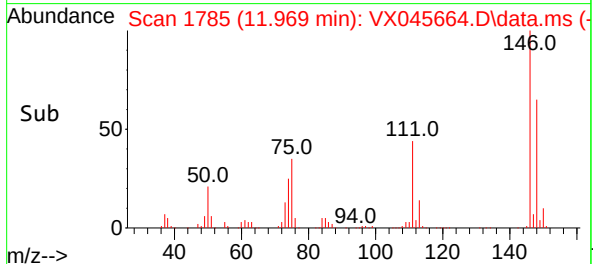
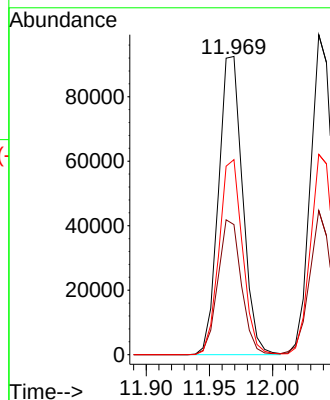
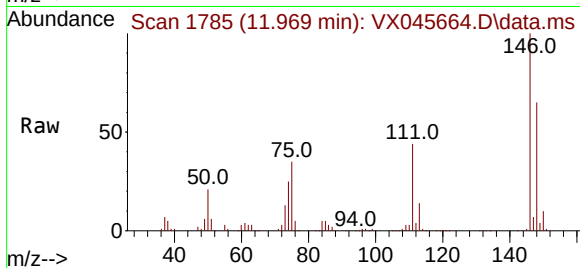
Tgt Ion:	146	Resp:	12249
Ion Ratio	Lower	Upper	
146	100		
111	44.1	22.2	66.6
148	63.7	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#88

1,4-Dichlorobenzene

Concen: 49.477 ug/l

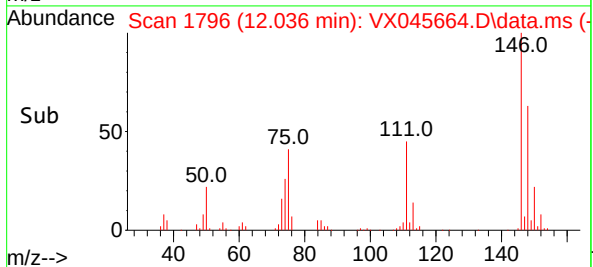
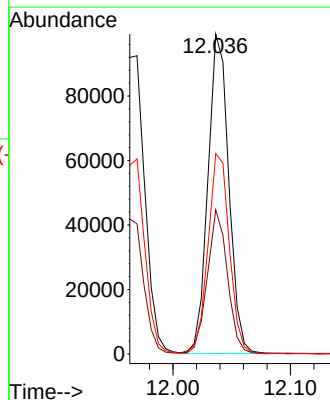
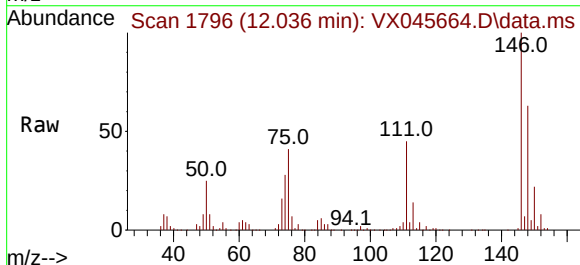
RT: 12.036 min Scan# 1796

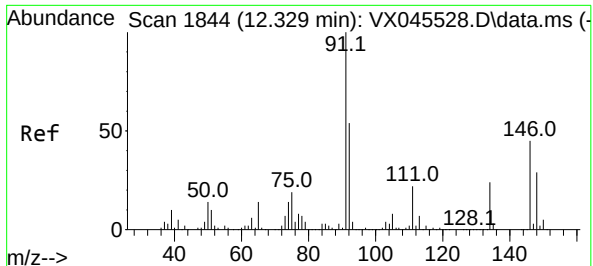
Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:	146	Resp:	121623
Ion Ratio	Lower	Upper	
146	100		
111	43.8	20.9	62.8
148	64.8	31.5	94.5





#89

n-Butylbenzene

Concen: 55.821 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 23133

Ion Ratio Lower Upper

91 100

92 53.3 26.9 80.6

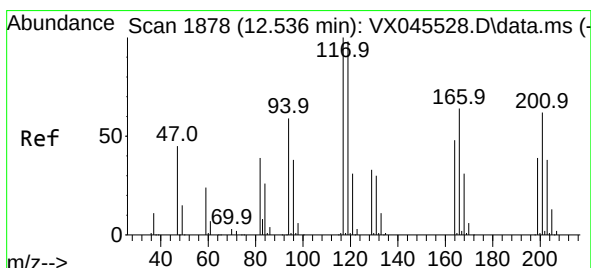
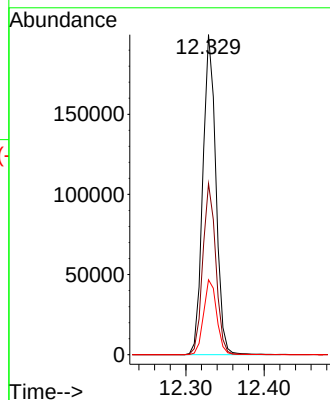
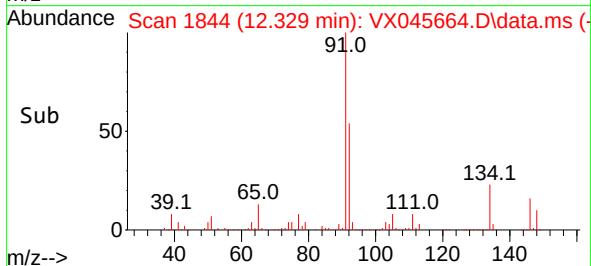
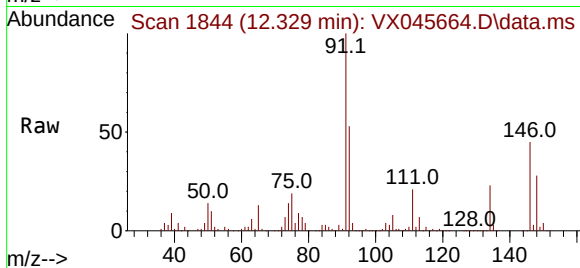
134 23.6 11.9 35.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#90

Hexachloroethane

Concen: 52.576 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. -0.000 min

Lab File: VX045664.D

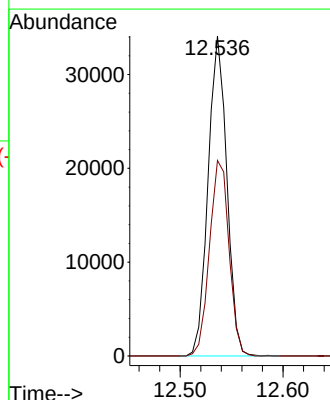
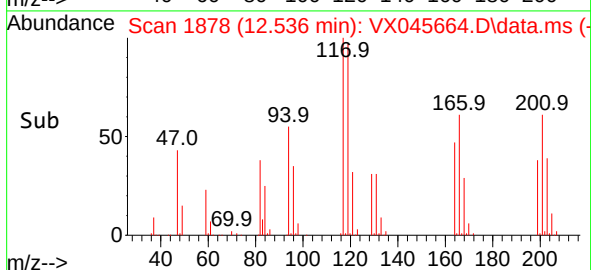
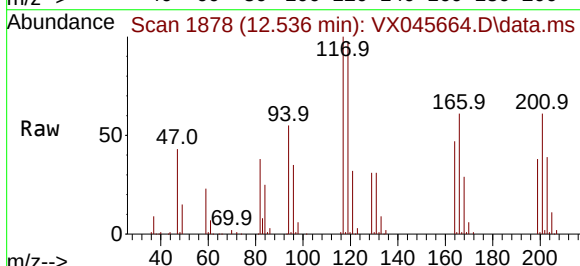
Acq: 09 Apr 2025 10:35

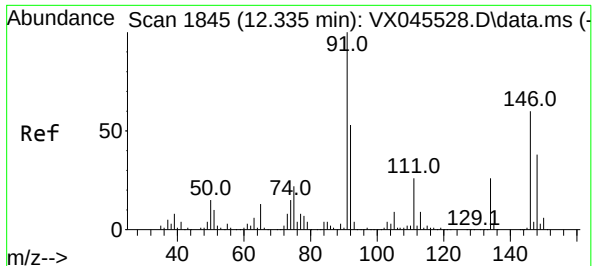
Tgt Ion:117 Resp: 43183

Ion Ratio Lower Upper

117 100

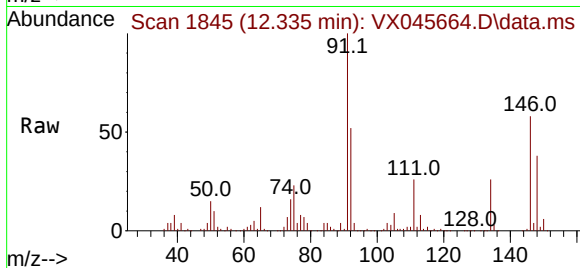
201 63.6 31.2 93.6





#91
1,2-Dichlorobenzene
Concen: 50.878 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

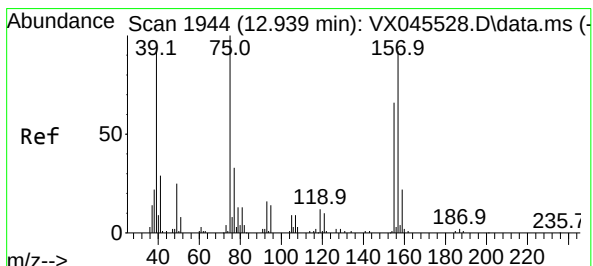
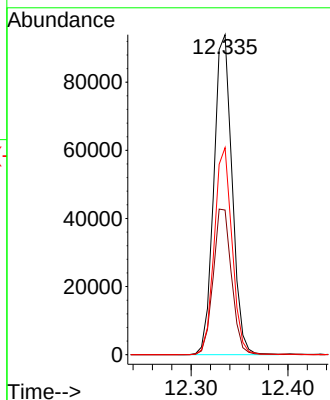
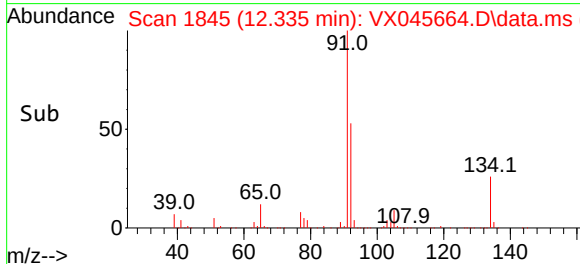
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 122650
Ion Ratio Lower Upper
146 100
111 46.0 22.9 68.8
148 63.1 31.9 95.5

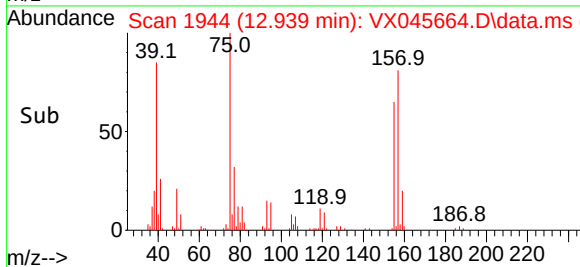
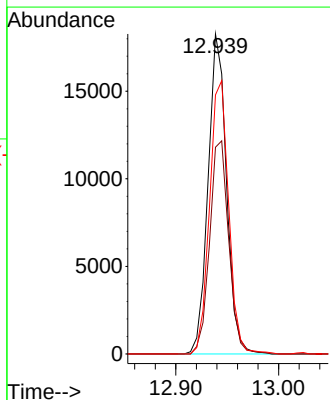
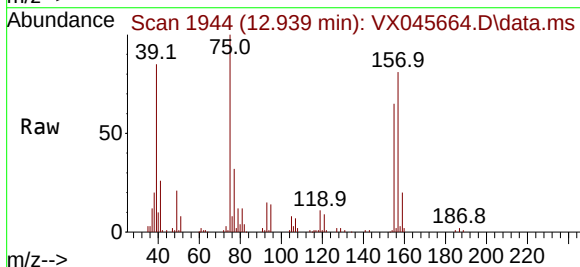
Manual Integrations
APPROVED

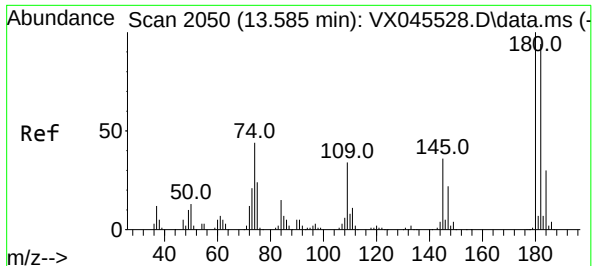
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 53.721 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX045664.D
Acq: 09 Apr 2025 10:35

Tgt Ion: 75 Resp: 22753
Ion Ratio Lower Upper
75 100
155 69.0 34.9 104.7
157 88.3 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 54.462 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

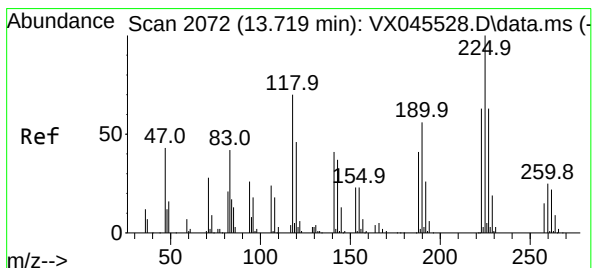
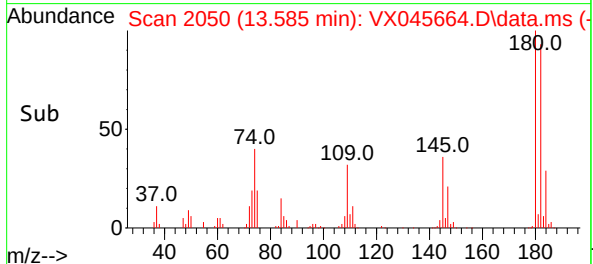
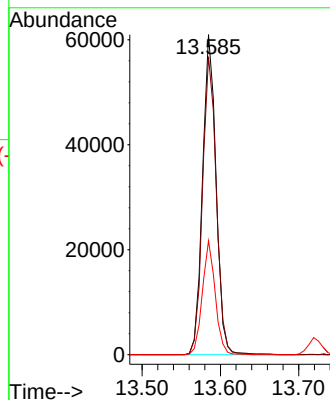
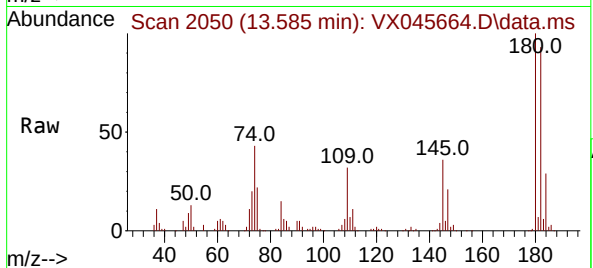
Tgt Ion:180	Resp:	73080
Ion Ratio	Lower	Upper
180	100	
182	94.8	47.9 143.6
145	33.9	17.9 53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#94

Hexachlorobutadiene

Concen: 54.285 ug/l

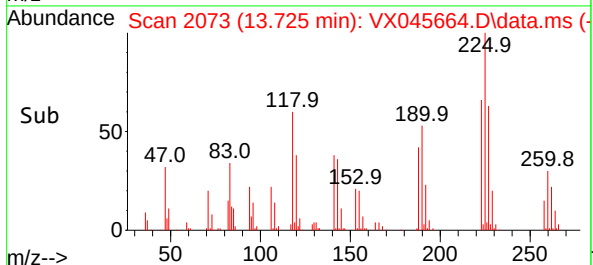
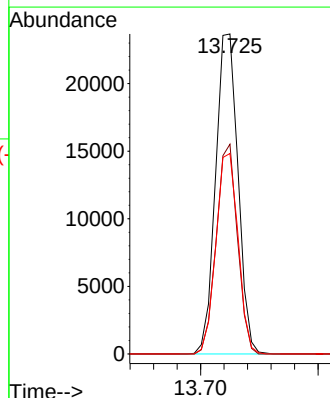
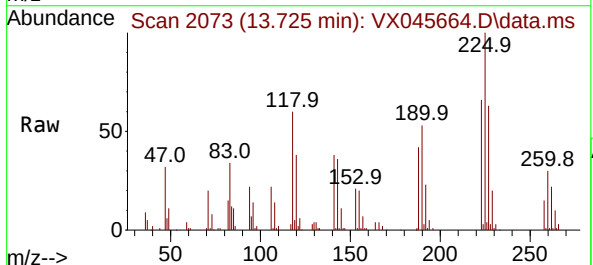
RT: 13.725 min Scan# 2073

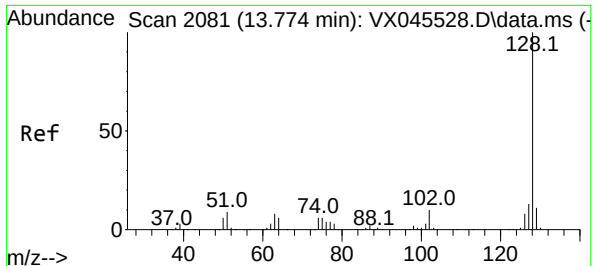
Delta R.T. 0.006 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Tgt Ion:225	Resp:	31389
Ion Ratio	Lower	Upper
225	100	
223	61.9	31.1 93.3
227	61.9	32.2 96.6





#95

Naphthalene

Concen: 53.094 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:128 Resp: 26512

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

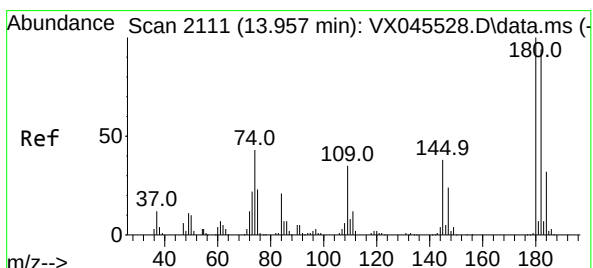
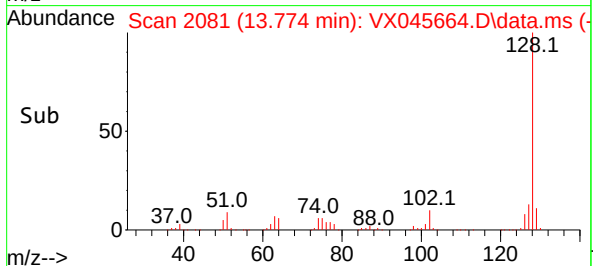
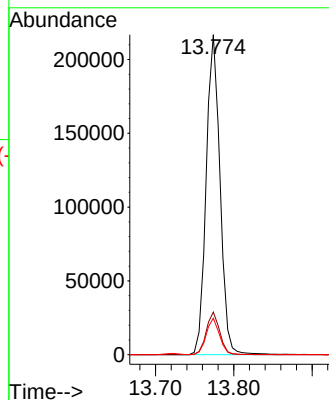
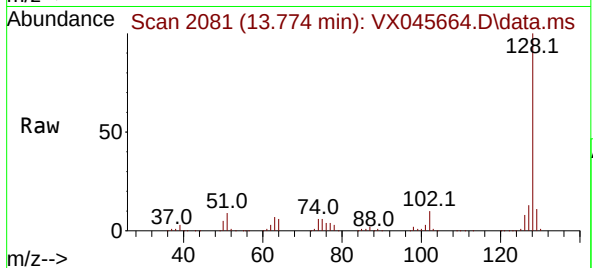
129 11.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#96

1,2,3-Trichlorobenzene

Concen: 52.232 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX045664.D

Acq: 09 Apr 2025 10:35

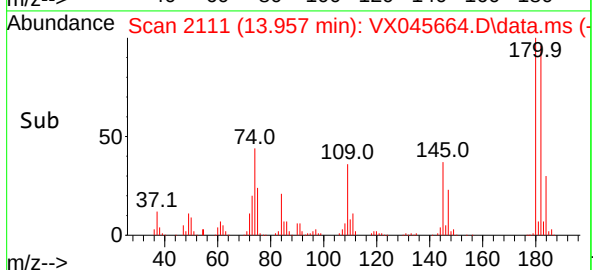
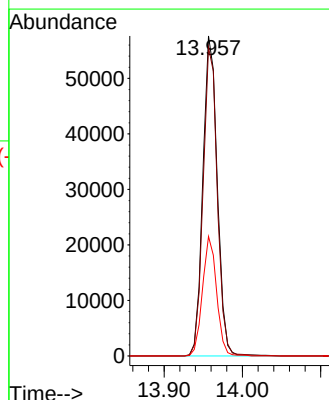
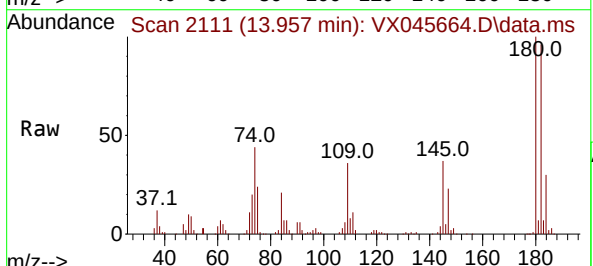
Tgt Ion:180 Resp: 73391

Ion Ratio Lower Upper

180 100

182 95.3 47.3 141.8

145 36.7 18.2 54.6



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	1.000	1.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	0.748	0.814	-8.8	102	0.00
3 P	Chloromethane	0.768	0.744	3.1	98	0.00
4 C	Vinyl Chloride	0.703	0.690	1.8#	99	0.00
5 T	Bromomethane	0.333	0.317	4.8	99	0.00
6 T	Chloroethane	0.373	0.395	-5.9	102	0.00
7 T	Trichlorofluoromethane	1.048	1.090	-4.0	103	0.00
8 T	Diethyl Ether	0.352	0.350	0.6	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	0.614	0.649	-5.7	108	0.00
10 T	Methyl Iodide	0.766	0.764	0.3	99	0.00
11 T	Tert butyl alcohol	0.123	0.123	0.0	100	0.00
12 CM	1,1-Dichloroethene	0.600	0.586	2.3#	100	0.00
13 T	Acrolein	0.169	0.146	13.6	90	0.00
14 T	Allyl chloride	1.139	1.157	-1.6	102	0.00
15 T	Acrylonitrile	0.388	0.372	4.1	94	0.00
16 T	Acetone	0.375	0.349	6.9	95	0.00
17 T	Carbon Disulfide	1.483	1.375	7.3	91	0.00
18 T	Methyl Acetate	0.864	0.925	-7.1	111	0.00
19 T	Methyl tert-butyl Ether	2.100	2.157	-2.7	105	0.00
20 T	Methylene Chloride	0.703	0.685	2.6	100	0.00
21 T	trans-1,2-Dichloroethene	0.613	0.609	0.7	101	0.00
22 T	Diisopropyl ether	2.243	2.302	-2.6	103	0.00
23 T	Vinyl Acetate	1.938	2.006	-3.5	99	0.00
24 P	1,1-Dichloroethane	1.269	1.251	1.4	102	0.00
25 T	2-Butanone	0.550	0.538	2.2	95	0.00
26 T	2,2-Dichloropropane	0.820	0.954	-16.3	116	0.00
27 T	cis-1,2-Dichloroethene	0.747	0.734	1.7	101	0.00
28 T	Bromochloromethane	0.613	0.565	7.8	98	-0.01
29 T	Tetrahydrofuran	0.356	0.342	3.9	95	0.00
30 C	Chloroform	1.306	1.317	-0.8#	103	0.00
31 T	Cyclohexane	1.122	1.092	2.7	100	0.00
32 T	1,1,1-Trichloroethane	1.105	1.107	-0.2	103	0.00
33 S	1,2-Dichloroethane-d4	0.914	0.945	-3.4	112	0.00
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	101	0.00
35 S	Dibromofluoromethane	0.355	0.379	-6.8	111	0.00
36 T	1,1-Dichloropropene	0.479	0.485	-1.3	101	0.00
37 T	Ethyl Acetate	0.604	0.588	2.6	96	0.00
38 T	Carbon Tetrachloride	0.518	0.553	-6.8	104	0.00
39 T	Methylcyclohexane	0.587	0.631	-7.5	103	0.00
40 TM	Benzene	1.463	1.461	0.1	100	0.00
41 T	Methacrylonitrile	0.318	0.341	-7.2	98	0.00
42 TM	1,2-Dichloroethane	0.604	0.626	-3.6	102	0.00
43 T	Isopropyl Acetate	0.915	0.962	-5.1	100	0.00
44 TM	Trichloroethene	0.348	0.351	-0.9	101	0.00
45 C	1,2-Dichloropropane	0.365	0.373	-2.2#	100	0.00
46 T	Dibromomethane	0.280	0.286	-2.1	99	0.00
47 T	Bromodichloromethane	0.560	0.583	-4.1	103	0.00
48 T	Methyl methacrylate	0.472	0.504	-6.8	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	0.009	0.009	0.0	100	0.00
50 S	Toluene-d8	1.238	1.272	-2.7	106	0.00
51 T	4-Methyl-2-Pentanone	0.606	0.631	-4.1	96	0.00
52 CM	Toluene	0.885	0.899	-1.6#	100	0.00
53 T	t-1,3-Dichloropropene	0.467	0.527	-12.8	105	0.00
54 T	cis-1,3-Dichloropropene	0.526	0.585	-11.2	104	0.00
55 T	1,1,2-Trichloroethane	0.353	0.360	-2.0	102	0.00
56 T	Ethyl methacrylate	0.546	0.590	-8.1	100	0.00
57 T	1,3-Dichloropropane	0.614	0.631	-2.8	101	0.00
58 T	2-Chloroethyl Vinyl ether	0.276	0.357	-29.3#	122	0.00
59 T	2-Hexanone	0.449	0.470	-4.7	97	0.00
60 T	Dibromochloromethane	0.385	0.409	-6.2	101	0.00
61 T	1,2-Dibromoethane	0.357	0.371	-3.9	101	0.00
62 S	4-Bromofluorobenzene	0.451	0.501	-11.1	112	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.00
64 T	Tetrachloroethene	0.353	0.373	-5.7	106	0.00
65 PM	Chlorobenzene	1.068	1.118	-4.7	102	0.00
66 T	1,1,1,2-Tetrachloroethane	0.371	0.386	-4.0	102	0.00
67 C	Ethyl Benzene	1.914	2.034	-6.3#	100	0.00
68 T	m/p-Xylenes	0.696	0.742	-6.6	100	0.00
69 T	o-Xylene	0.686	0.716	-4.4	98	0.00
70 T	Styrene	1.132	1.225	-8.2	99	0.00
71 P	Bromoform	0.277	0.302	-9.0	101	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
73 T	Isopropylbenzene	4.005	3.959	1.1	99	0.00
74 T	N-amyl acetate	1.916	2.030	-5.9	103	0.00
75 P	1,1,2,2-Tetrachloroethane	1.407	1.337	5.0	101	0.00
76 T	1,2,3-Trichloropropane	1.220	1.187	2.7	101	0.00
77 T	Bromobenzene	0.925	0.910	1.6	102	0.00
78 T	n-propylbenzene	4.613	4.697	-1.8	100	0.00
79 T	2-Chlorotoluene	2.949	2.874	2.5	101	0.00
80 T	1,3,5-Trimethylbenzene	3.312	3.381	-2.1	101	0.00
81 T	trans-1,4-Dichloro-2-butene	0.359	0.372	-3.6	105	0.00
82 T	4-Chlorotoluene	3.288	3.348	-1.8	102	0.00
83 T	tert-Butylbenzene	3.279	3.296	-0.5	101	0.00
84 T	1,2,4-Trimethylbenzene	3.324	3.456	-4.0	103	0.00
85 T	sec-Butylbenzene	4.027	4.202	-4.3	102	0.00
86 T	p-Isopropyltoluene	3.320	3.518	-6.0	104	0.00
87 T	1,3-Dichlorobenzene	1.684	1.702	-1.1	105	0.00
88 T	1,4-Dichlorobenzene	1.708	1.690	1.1	104	0.00
89 T	n-Butylbenzene	2.879	3.214	-11.6	106	0.00
90 T	Hexachloroethane	0.571	0.600	-5.1	105	0.00
91 T	1,2-Dichlorobenzene	1.675	1.704	-1.7	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.294	0.316	-7.5	105	0.00
93 T	1,2,4-Trichlorobenzene	0.932	1.015	-8.9	112	0.00
94 T	Hexachlorobutadiene	0.402	0.436	-8.5	113	0.00
95 T	Naphthalene	3.469	3.684	-6.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
96 T 1,2,3-Trichlorobenzene	0.976	1.020	-4.5	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	Pentafluorobenzene	50.000	50.000	0.0	103	0.00
2 T	Dichlorodifluoromethane	50.000	54.408	-8.8	102	0.00
3 P	Chloromethane	50.000	48.432	3.1	98	0.00
4 C	Vinyl Chloride	50.000	49.103	1.8#	99	0.00
5 T	Bromomethane	50.000	47.592	4.8	99	0.00
6 T	Chloroethane	50.000	52.923	-5.8	102	0.00
7 T	Trichlorofluoromethane	50.000	51.999	-4.0	103	0.00
8 T	Diethyl Ether	50.000	49.768	0.5	102	0.00
9 T	1,1,2-Trichlorotrifluoroeth	50.000	52.860	-5.7	108	0.00
10 T	Methyl Iodide	50.000	49.865	0.3	99	0.00
11 T	Tert butyl alcohol	250.000	250.751	-0.3	100	0.00
12 CM	1,1-Dichloroethene	50.000	48.810	2.4#	100	0.00
13 T	Acrolein	250.000	215.595	13.8	90	0.00
14 T	Allyl chloride	50.000	50.776	-1.6	102	0.00
15 T	Acrylonitrile	250.000	239.873	4.1	94	0.00
16 T	Acetone	250.000	232.643	6.9	95	0.00
17 T	Carbon Disulfide	50.000	46.377	7.2	91	0.00
18 T	Methyl Acetate	50.000	53.475	-7.0	111	0.00
19 T	Methyl tert-butyl Ether	50.000	51.365	-2.7	105	0.00
20 T	Methylene Chloride	50.000	48.733	2.5	100	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.674	0.7	101	0.00
22 T	Diisopropyl ether	50.000	51.300	-2.6	103	0.00
23 T	Vinyl Acetate	250.000	258.743	-3.5	99	0.00
24 P	1,1-Dichloroethane	50.000	49.288	1.4	102	0.00
25 T	2-Butanone	250.000	244.882	2.0	95	0.00
26 T	2,2-Dichloropropane	50.000	58.169	-16.3	116	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.093	1.8	101	0.00
28 T	Bromochloromethane	50.000	46.046	7.9	98	-0.01
29 T	Tetrahydrofuran	250.000	240.083	4.0	95	0.00
30 C	Chloroform	50.000	50.443	-0.9#	103	0.00
31 T	Cyclohexane	50.000	48.695	2.6	100	0.00
32 T	1,1,1-Trichloroethane	50.000	50.125	-0.3	103	0.00
33 S	1,2-Dichloroethane-d4	50.000	51.679	-3.4	112	0.00
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	101	0.00
35 S	Dibromofluoromethane	50.000	53.479	-7.0	111	0.00
36 T	1,1-Dichloropropene	50.000	50.649	-1.3	101	0.00
37 T	Ethyl Acetate	50.000	48.695	2.6	96	0.00
38 T	Carbon Tetrachloride	50.000	53.397	-6.8	104	0.00
39 T	Methylcyclohexane	50.000	53.743	-7.5	103	0.00
40 TM	Benzene	50.000	49.925	0.2	100	0.00
41 T	Methacrylonitrile	50.000	53.585	-7.2	98	0.00
42 TM	1,2-Dichloroethane	50.000	51.791	-3.6	102	0.00
43 T	Isopropyl Acetate	50.000	52.580	-5.2	100	0.00
44 TM	Trichloroethene	50.000	50.518	-1.0	101	0.00
45 C	1,2-Dichloropropane	50.000	51.125	-2.3#	100	0.00
46 T	Dibromomethane	50.000	51.004	-2.0	99	0.00
47 T	Bromodichloromethane	50.000	52.121	-4.2	103	0.00
48 T	Methyl methacrylate	50.000	53.362	-6.7	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
49 T	1,4-Dioxane	1000.000	1067.317	-6.7	100	0.00
50 S	Toluene-d8	50.000	51.382	-2.8	106	0.00
51 T	4-Methyl-2-Pentanone	250.000	259.961	-4.0	96	0.00
52 CM	Toluene	50.000	50.790	-1.6#	100	0.00
53 T	t-1,3-Dichloropropene	50.000	49.048	1.9	105	0.00
54 T	cis-1,3-Dichloropropene	50.000	55.664	-11.3	104	0.00
55 T	1,1,2-Trichloroethane	50.000	51.068	-2.1	102	0.00
56 T	Ethyl methacrylate	50.000	54.073	-8.1	100	0.00
57 T	1,3-Dichloropropane	50.000	51.377	-2.8	101	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	323.406	-29.4#	122	0.00
59 T	2-Hexanone	250.000	261.752	-4.7	97	0.00
60 T	Dibromochloromethane	50.000	53.243	-6.5	101	0.00
61 T	1,2-Dibromoethane	50.000	51.914	-3.8	101	0.00
62 S	4-Bromofluorobenzene	50.000	55.532	-11.1	112	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	98	0.00
64 T	Tetrachloroethene	50.000	52.870	-5.7	106	0.00
65 PM	Chlorobenzene	50.000	52.332	-4.7	102	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	51.972	-3.9	102	0.00
67 C	Ethyl Benzene	50.000	53.143	-6.3#	100	0.00
68 T	m/p-Xylenes	100.000	106.594	-6.6	100	0.00
69 T	o-Xylene	50.000	52.190	-4.4	98	0.00
70 T	Styrene	50.000	54.118	-8.2	99	0.00
71 P	Bromoform	50.000	54.578	-9.2	101	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	105	0.00
73 T	Isopropylbenzene	50.000	49.428	1.1	99	0.00
74 T	N-ethyl acetate	50.000	52.979	-6.0	103	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	47.526	4.9	101	0.00
76 T	1,2,3-Trichloropropane	50.000	48.651	2.7	101	0.00
77 T	Bromobenzene	50.000	49.171	1.7	102	0.00
78 T	n-propylbenzene	50.000	50.914	-1.8	100	0.00
79 T	2-Chlorotoluene	50.000	48.724	2.6	101	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.048	-2.1	101	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.822	-3.6	105	0.00
82 T	4-Chlorotoluene	50.000	50.904	-1.8	102	0.00
83 T	tert-Butylbenzene	50.000	50.257	-0.5	101	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.990	-4.0	103	0.00
85 T	sec-Butylbenzene	50.000	52.168	-4.3	102	0.00
86 T	p-Isopropyltoluene	50.000	52.986	-6.0	104	0.00
87 T	1,3-Dichlorobenzene	50.000	50.521	-1.0	105	0.00
88 T	1,4-Dichlorobenzene	50.000	49.477	1.0	104	0.00
89 T	n-Butylbenzene	50.000	55.821	-11.6	106	0.00
90 T	Hexachloroethane	50.000	52.576	-5.2	105	0.00
91 T	1,2-Dichlorobenzene	50.000	50.878	-1.8	106	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	53.721	-7.4	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	54.462	-8.9	112	0.00
94 T	Hexachlorobutadiene	50.000	54.285	-8.6	113	0.00
95 T	Naphthalene	50.000	53.094	-6.2	104	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045664.D
Acq On : 09 Apr 2025 10:35
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Apr 10 01:33:07 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
96 T	1,2,3-Trichlorobenzene	50.000	52.232	-4.5	107	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



QC SAMPLE DATA

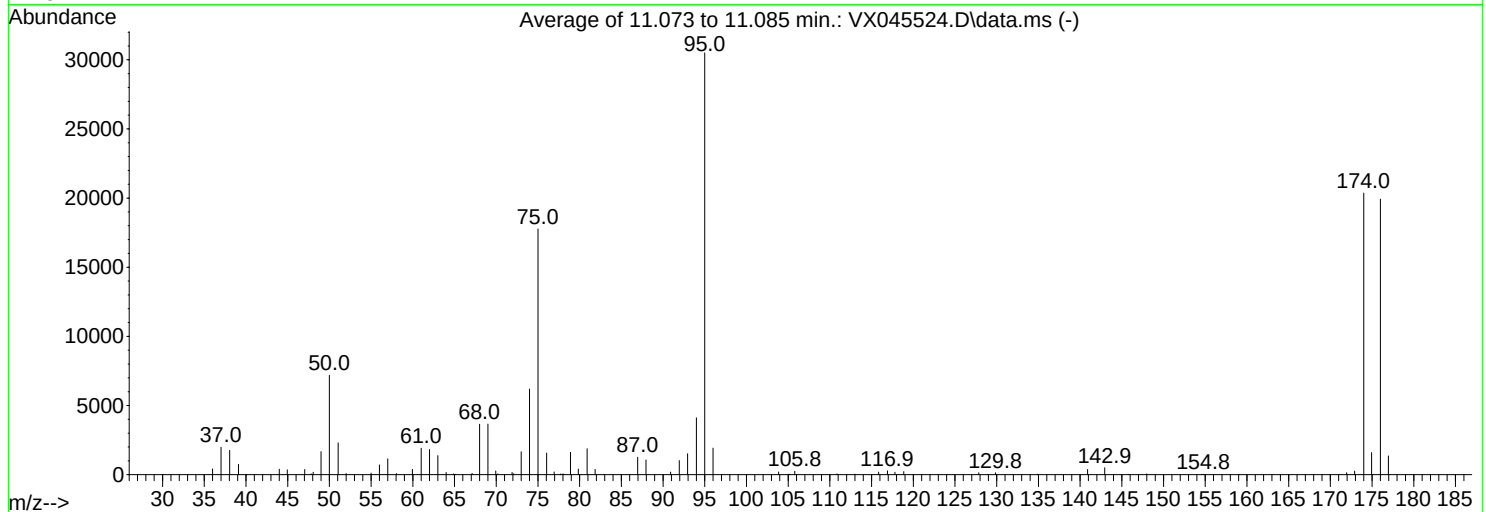
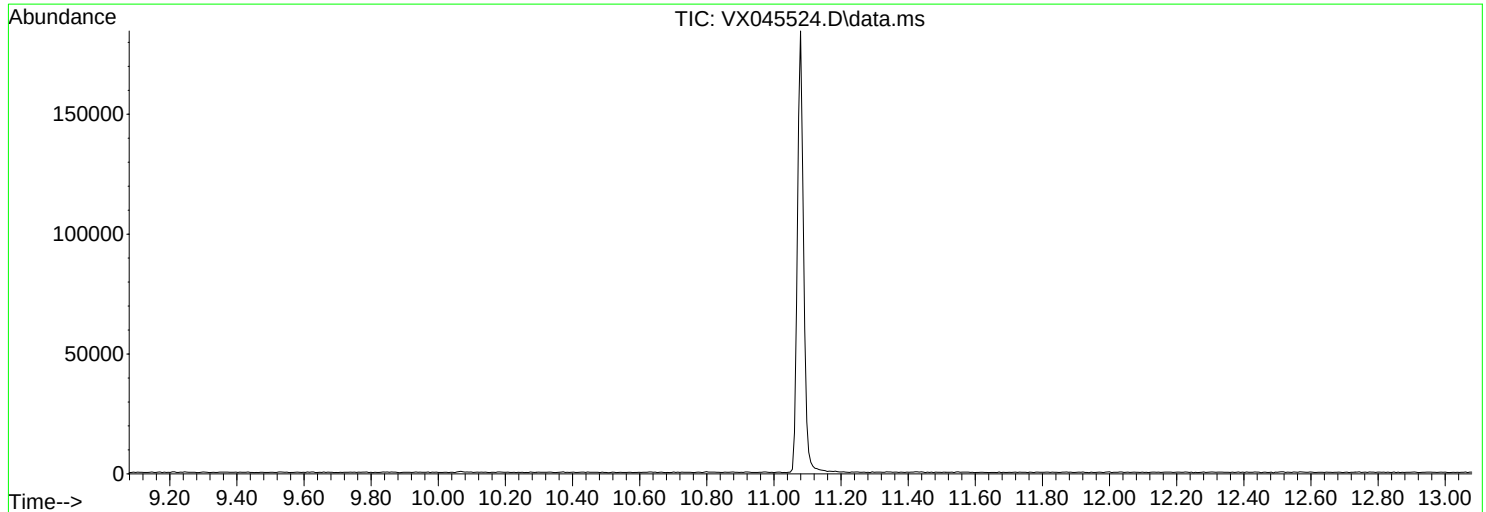
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040225\
Data File : VX045524.D
Acq On : 01 Apr 2025 16:15
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

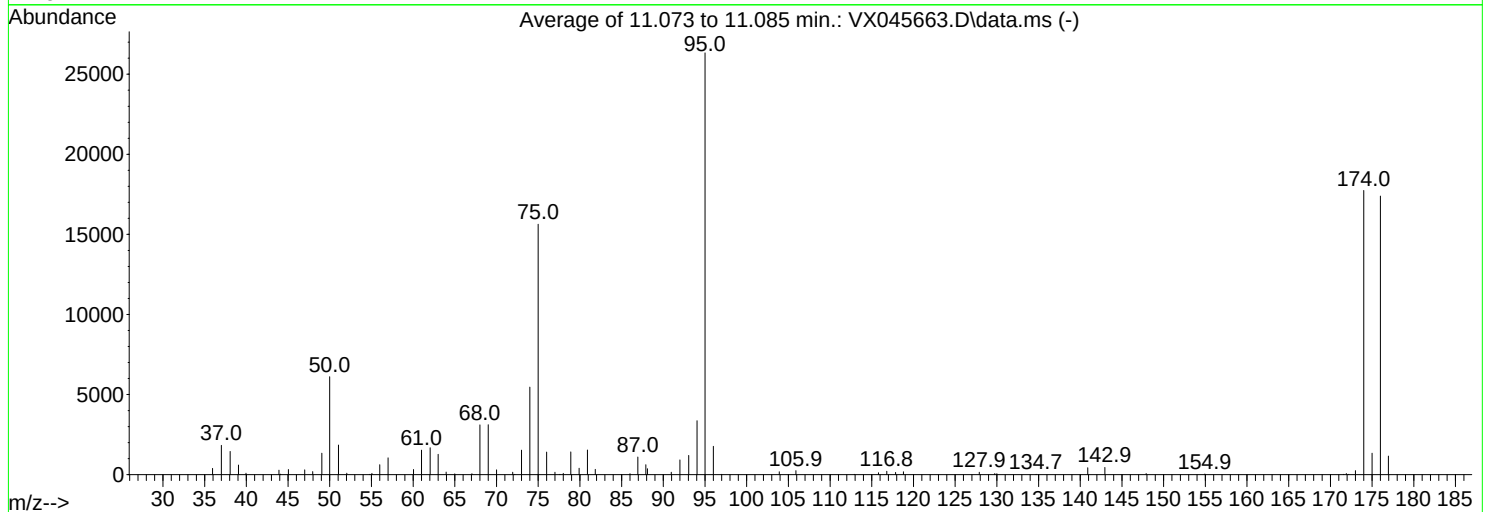
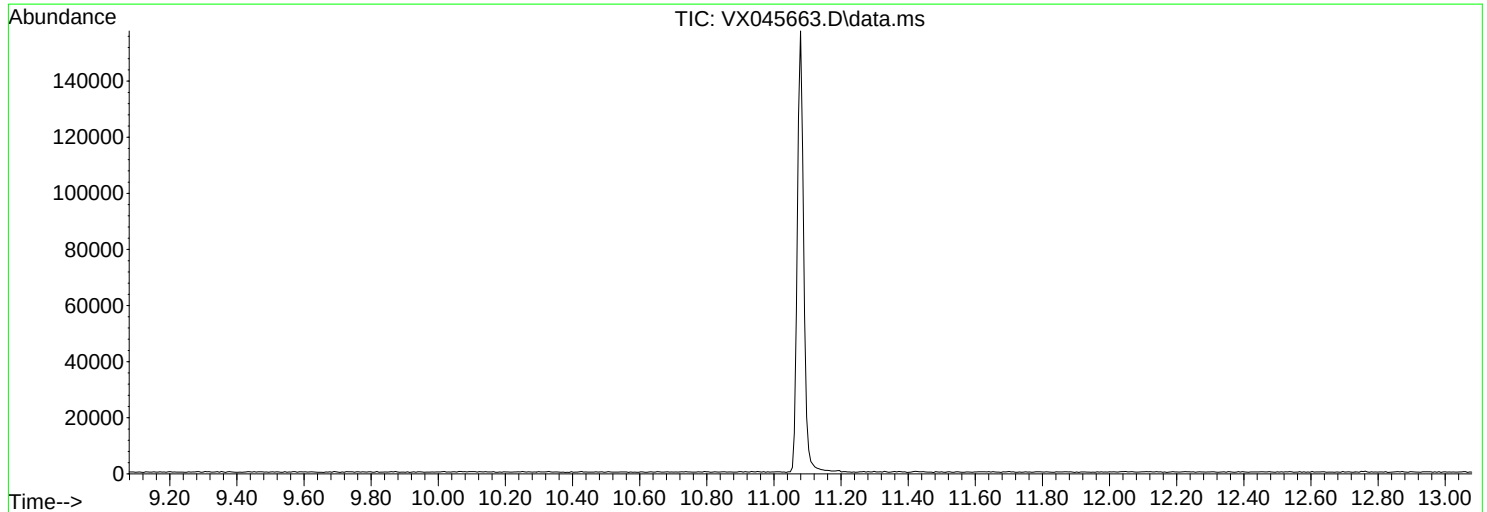
Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	23.6	7184	PASS
75	95	30	60	58.2	17768	PASS
95	95	100	100	100.0	30504	PASS
96	95	5	9	6.3	1916	PASS
173	174	0.00	2	1.2	253	PASS
174	95	50	100	66.8	20365	PASS
175	174	5	9	7.8	1596	PASS
176	174	95	101	97.8	19923	PASS
177	176	5	9	6.8	1352	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045663.D
Acq On : 09 Apr 2025 09:38
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Title : SW846 8260
Last Update : Wed Apr 02 03:11:43 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
50	95	15	40	23.2	6109	PASS
75	95	30	60	59.4	15637	PASS
95	95	100	100	100.0	26333	PASS
96	95	5	9	6.7	1772	PASS
173	174	0.00	2	1.4	252	PASS
174	95	50	100	67.4	17742	PASS
175	174	5	9	7.5	1336	PASS
176	174	95	101	98.0	17394	PASS
177	176	5	9	6.7	1162	PASS

Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison - 11th Ave-West 50th St Site	Date Received:	
Client Sample ID:	VX0409WBL01	SDG No.:	Q1739
Lab Sample ID:	VX0409WBL01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045666.D	1		04/09/25 11:26	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	0.26	U	0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.23	U	0.23	1.00	ug/L
78-93-3	2-Butanone	0.98	U	0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
67-66-3	Chloroform	0.25	U	0.25	1.00	ug/L
71-43-2	Benzene	0.15	U	0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.22	U	0.22	1.00	ug/L
79-01-6	Trichloroethene	0.090	U	0.090	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
108-90-7	Chlorobenzene	0.12	U	0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	50.5		86 - 113	101%	SPK: 50
460-00-4	4-Bromofluorobenzene	49.9		77 - 121	100%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	69900	5.544			
540-36-3	1,4-Difluorobenzene	138000	6.757			
3114-55-4	Chlorobenzene-d5	128000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	50500	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045666.D
Acq On : 09 Apr 2025 11:26
Operator : JC/MD
Sample : VX0409WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Quant Time: Apr 10 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	69921	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	138334	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	127856	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50474	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	68376	53.474	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	106.940%
35) Dibromofluoromethane	5.379	113	50392	51.343	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	102.680%
50) Toluene-d8	8.647	98	172860	50.459	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	100.920%
62) 4-Bromofluorobenzene	11.079	95	62262	49.896	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.800%

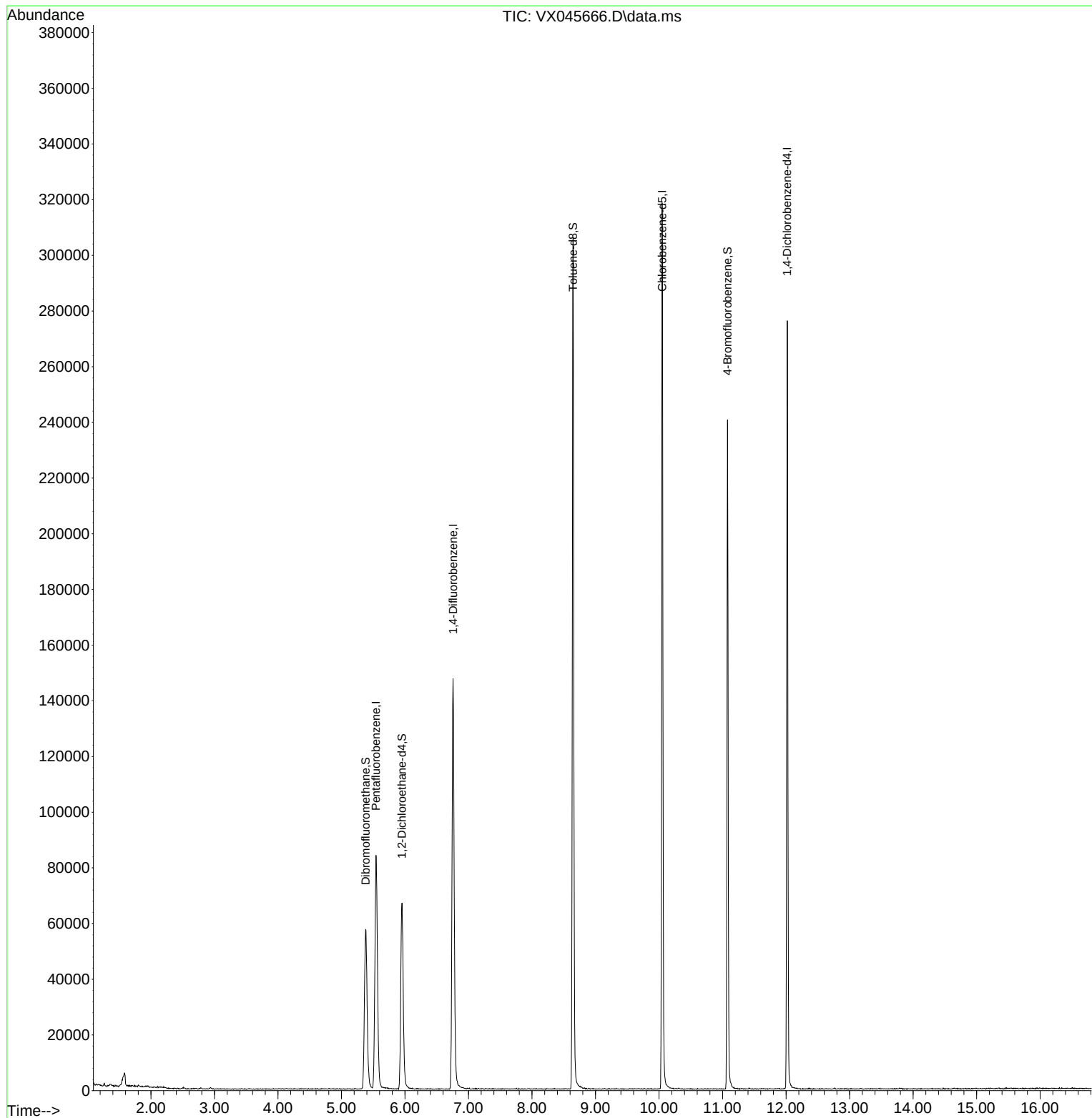
Target Compounds	Qvalue

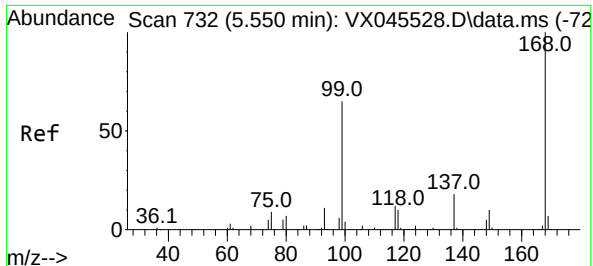
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045666.D
Acq On : 09 Apr 2025 11:26
Operator : JC/MD
Sample : VX0409WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBL01

Quant Time: Apr 10 01:33:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.006 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

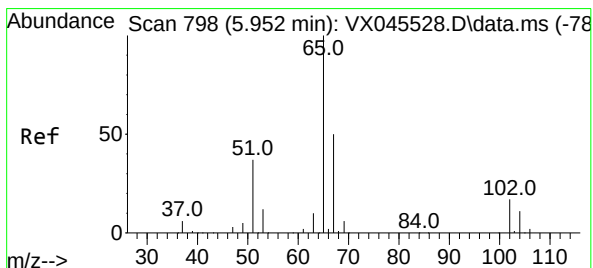
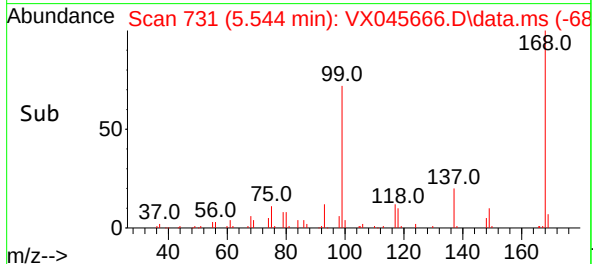
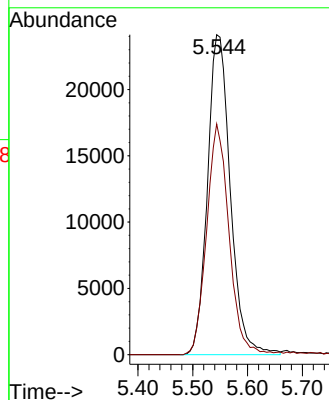
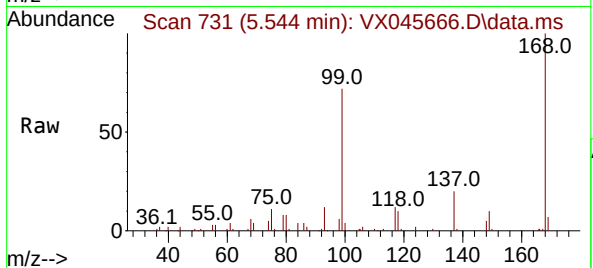
VX0409WBL01

Tgt Ion:168 Resp: 69921

Ion Ratio Lower Upper

168 100

99 72.1 52.3 78.5



#33

1,2-Dichloroethane-d4

Concen: 53.474 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045666.D

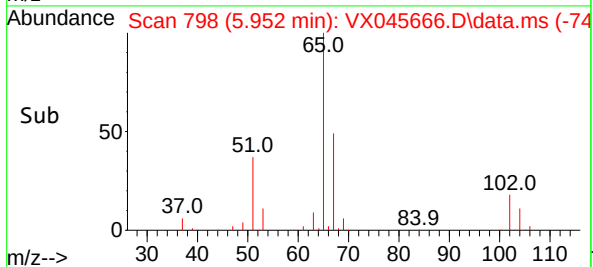
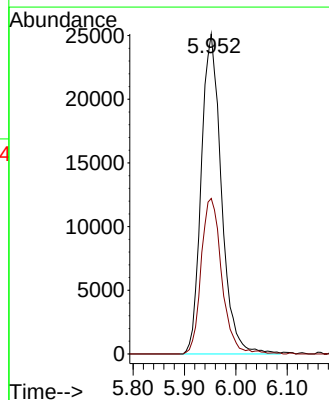
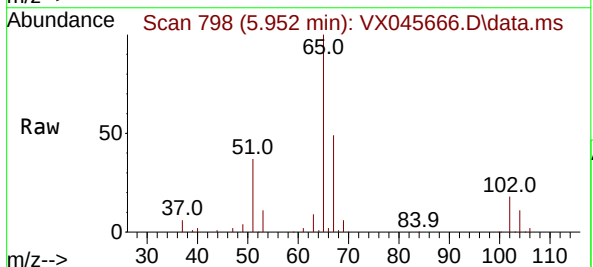
Acq: 09 Apr 2025 11:26

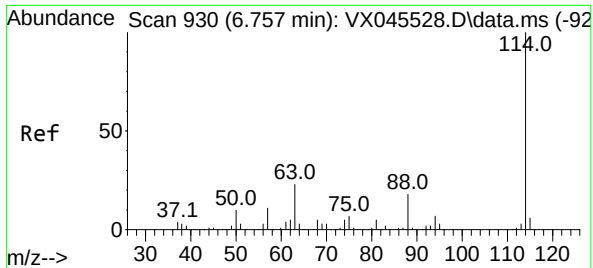
Tgt Ion: 65 Resp: 68376

Ion Ratio Lower Upper

65 100

67 49.7 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBL01

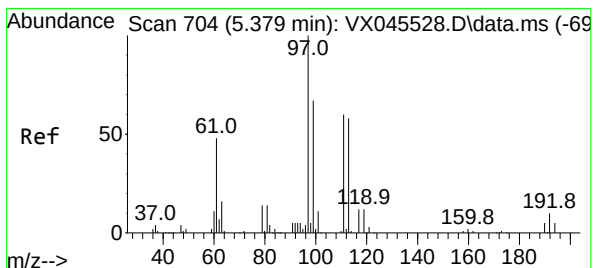
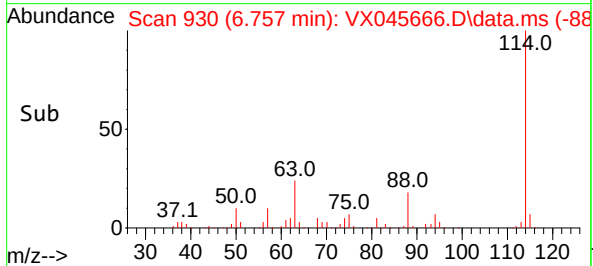
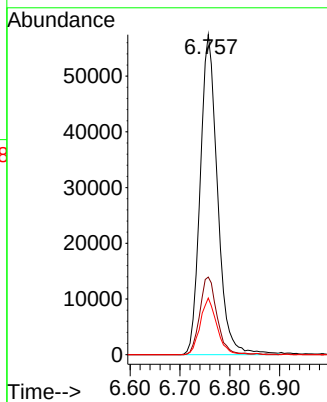
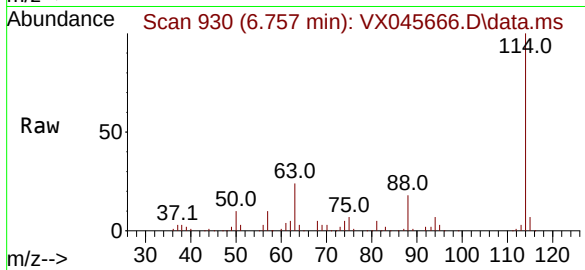
Tgt Ion:114 Resp: 138334

Ion Ratio Lower Upper

114 100

63 24.3 0.0 46.8

88 17.7 0.0 35.4



#35

Dibromofluoromethane

Concen: 51.343 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.000 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

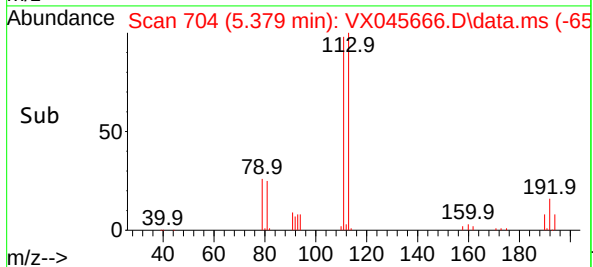
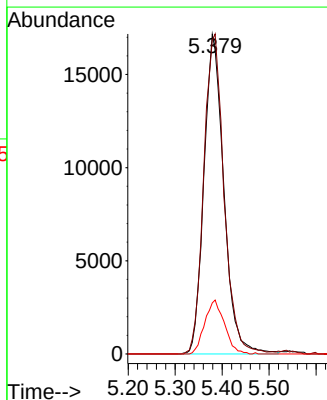
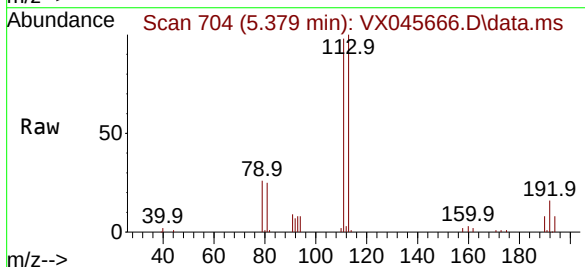
Tgt Ion:113 Resp: 50392

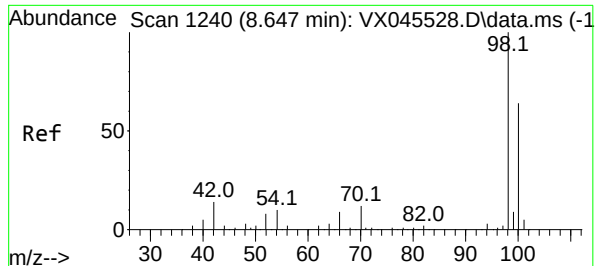
Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.6

192 16.7 13.8 20.6





#50

Toluene-d8

Concen: 50.459 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

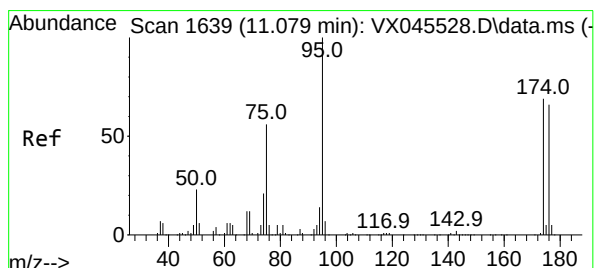
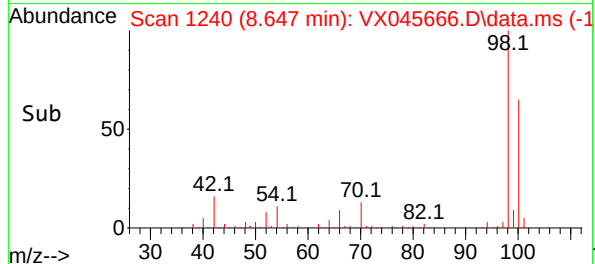
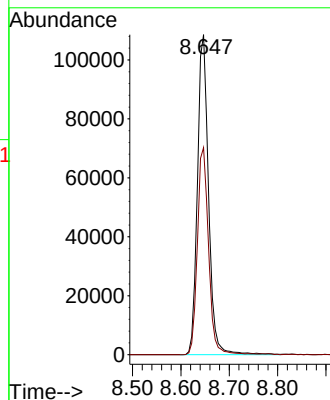
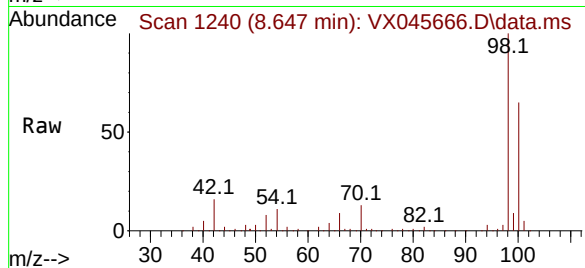
VX0409WBL01

Tgt Ion: 98 Resp: 172860

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4



#62

4-Bromofluorobenzene

Concen: 49.896 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

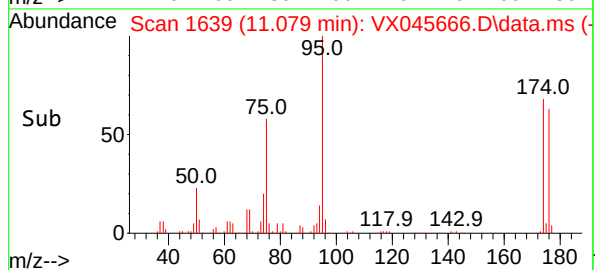
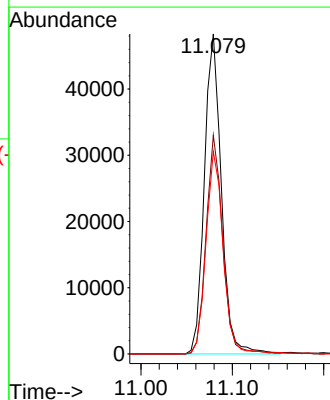
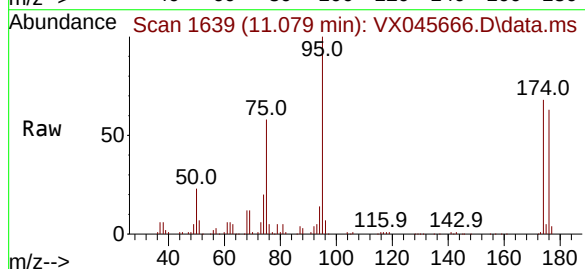
Tgt Ion: 95 Resp: 62262

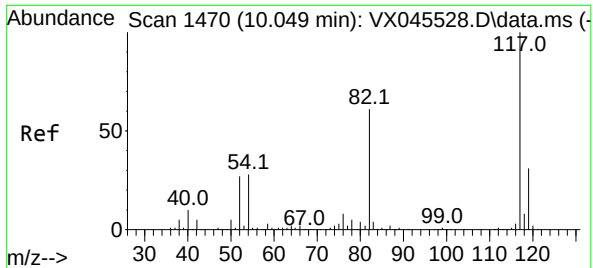
Ion Ratio Lower Upper

95 100

174 67.0 0.0 135.8

176 63.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. -0.000 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBL01

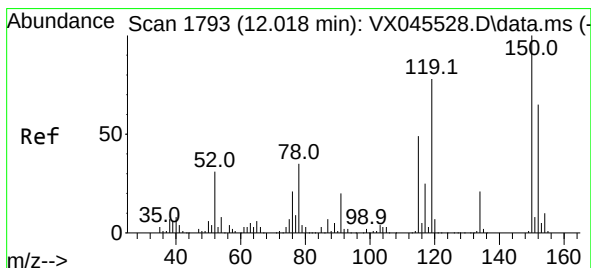
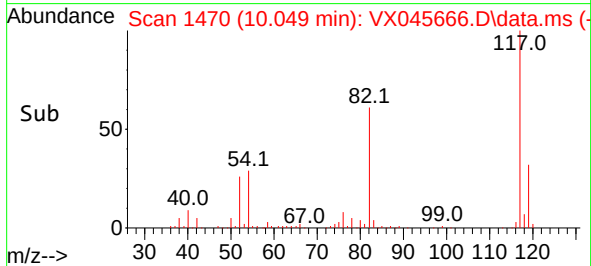
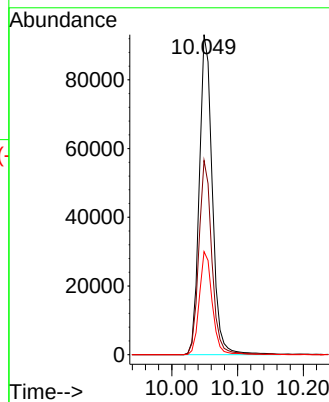
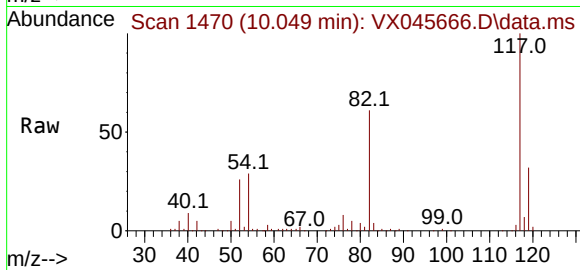
Tgt Ion:117 Resp: 127856

Ion Ratio Lower Upper

117 100

82 60.7 49.2 73.8

119 32.2 25.1 37.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX045666.D

Acq: 09 Apr 2025 11:26

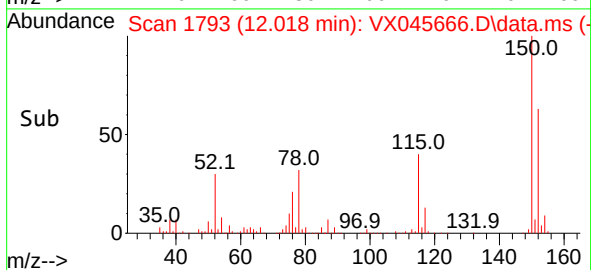
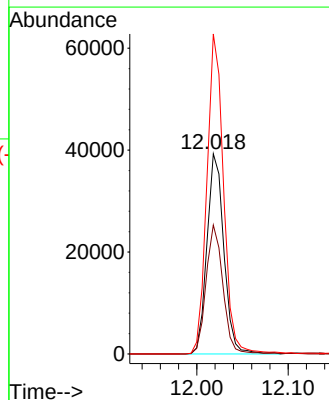
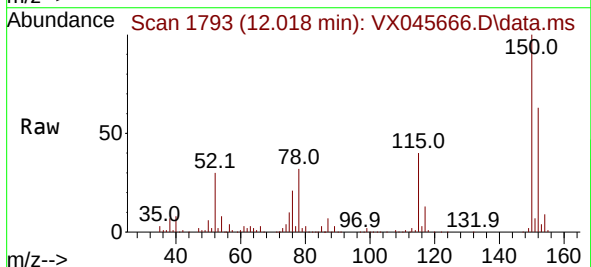
Tgt Ion:152 Resp: 50474

Ion Ratio Lower Upper

152 100

115 64.3 46.9 140.7

150 157.2 0.0 349.4



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.	Date Collected:	
Project:	Con Edison - 11th Ave-West 50th St Site	Date Received:	
Client Sample ID:	VX0409WBS01	SDG No.:	Q1739
Lab Sample ID:	VX0409WBS01	Matrix:	TCLP
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	TCLP VOA
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045667.D	1		04/09/25 11:49	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.5		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.4		0.23	1.00	ug/L
78-93-3	2-Butanone	94.6		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	20.1		0.25	1.00	ug/L
67-66-3	Chloroform	19.3		0.25	1.00	ug/L
71-43-2	Benzene	19.3		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	20.4		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	20.9		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.3		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.5		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	54.5		75 - 124	109%	SPK: 50
2037-26-5	Toluene-d8	53.1		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	52.6		77 - 121	105%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	94100	5.544			
540-36-3	1,4-Difluorobenzene	163000	6.757			
3114-55-4	Chlorobenzene-d5	141000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	64200	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
 Data File : VX045667.D
 Acq On : 09 Apr 2025 11:49
 Operator : JC/MD
 Sample : VX0409WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0409WBS01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:33:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	94074	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	163361	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	141398	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	64175	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	92053	53.508	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 107.020%			
35) Dibromofluoromethane	5.379	113	63174	54.505	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 109.020%			
50) Toluene-d8	8.647	98	214655	53.060	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.120%			
62) 4-Bromofluorobenzene	11.079	95	77473	52.574	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 105.140%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28296	20.113	ug/l	99
3) Chloromethane	1.301	50	27094	18.746	ug/l	96
4) Vinyl Chloride	1.374	62	24425	18.466	ug/l	98
5) Bromomethane	1.593	94	11395	18.169	ug/l	98
6) Chloroethane	1.672	64	14346	20.443	ug/l	100
7) Trichlorofluoromethane	1.880	101	38861	19.702	ug/l	96
8) Diethyl Ether	2.130	74	12161	18.364	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	23620	20.436	ug/l	95
10) Methyl Iodide	2.447	142	26699	18.520	ug/l	98
11) Tert butyl alcohol	2.965	59	22380	96.798	ug/l	97
12) 1,1-Dichloroethene	2.313	96	20770	18.391	ug/l	96
13) Acrolein	2.233	56	25659	80.591	ug/l	99
14) Allyl chloride	2.660	41	41579	19.404	ug/l	98
15) Acrylonitrile	3.062	53	68147	93.374	ug/l	99
16) Acetone	2.380	43	65896	93.280	ug/l	95
17) Carbon Disulfide	2.508	76	46029	16.502	ug/l	99
18) Methyl Acetate	2.703	43	32926	20.244	ug/l	100
19) Methyl tert-butyl Ether	3.111	73	76110	19.265	ug/l	100
20) Methylene Chloride	2.782	84	24229	18.320	ug/l	91
21) trans-1,2-Dichloroethene	3.087	96	21257	18.424	ug/l	97
22) Diisopropyl ether	3.757	45	79613	18.861	ug/l #	83
23) Vinyl Acetate	3.721	43	345218	94.659	ug/l	100
24) 1,1-Dichloroethane	3.605	63	45684	19.137	ug/l	99
25) 2-Butanone	4.556	43	97809	94.586	ug/l	98
26) 2,2-Dichloropropane	4.471	77	32813	21.275	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	26125	18.585	ug/l	97
28) Bromochloromethane	4.891	49	22802	19.766	ug/l	99
29) Tetrahydrofuran	5.007	42	62847	93.742	ug/l	99
30) Chloroform	5.086	83	47524	19.348	ug/l	98
31) Cyclohexane	5.458	56	39121	18.537	ug/l	95
32) 1,1,1-Trichloroethane	5.379	97	39802	19.150	ug/l	99
36) 1,1-Dichloropropene	5.684	75	30850	19.713	ug/l	98
37) Ethyl Acetate	4.715	43	35720	18.112	ug/l	99
38) Carbon Tetrachloride	5.666	117	33982	20.092	ug/l	96
39) Methylcyclohexane	7.373	83	37396	19.494	ug/l	95
40) Benzene	6.031	78	92251	19.301	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
 Data File : VX045667.D
 Acq On : 09 Apr 2025 11:49
 Operator : JC/MD
 Sample : VX0409WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0409WBS01

Quant Time: Apr 10 01:33:49 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	21224	20.397	ug/l	97
42) 1,2-Dichloroethane	6.086	62	40264	20.397	ug/l	99
43) Isopropyl Acetate	6.336	43	57645	19.285	ug/l	100
44) Trichloroethene	7.123	130	21805	19.194	ug/l	97
45) 1,2-Dichloropropane	7.428	63	23339	19.571	ug/l	100
46) Dibromomethane	7.580	93	17802	19.446	ug/l	98
47) Bromodichloromethane	7.818	83	35828	19.598	ug/l	98
48) Methyl methacrylate	7.690	41	30321	19.647	ug/l	99
49) 1,4-Dioxane	7.659	88	11977	428.937	ug/l	97
51) 4-Methyl-2-Pentanone	8.568	43	200067	100.967	ug/l	99
52) Toluene	8.714	92	55913	19.333	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	30206	18.684	ug/l	99
54) cis-1,3-Dichloropropene	8.360	75	34931	20.333	ug/l	98
55) 1,1,2-Trichloroethane	9.147	97	22964	19.926	ug/l	96
56) Ethyl methacrylate	9.116	69	35297	19.790	ug/l	99
57) 1,3-Dichloropropane	9.305	76	39607	19.736	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.238	63	88591	98.189	ug/l	100
59) 2-Hexanone	9.427	43	148084	100.919	ug/l	99
60) Dibromochloromethane	9.519	129	24830	19.763	ug/l	98
61) 1,2-Dibromoethane	9.604	107	23143	19.837	ug/l	99
64) Tetrachloroethene	9.269	164	20900	20.935	ug/l	98
65) Chlorobenzene	10.073	112	61480	20.348	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.159	131	20527	19.568	ug/l	99
67) Ethyl Benzene	10.189	91	108358	20.024	ug/l	98
68) m/p-Xylenes	10.299	106	79752	40.521	ug/l	99
69) o-Xylene	10.640	106	39137	20.186	ug/l	99
70) Styrene	10.653	104	64826	20.258	ug/l	98
71) Bromoform	10.799	173	15275	19.502	ug/l #	100
73) Isopropylbenzene	10.957	105	104506	20.330	ug/l	99
74) N-amyl acetate	10.842	43	49023	19.937	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	35954	19.910	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	31590m	20.180	ug/l	
77) Bromobenzene	11.195	156	24141	20.325	ug/l	98
78) n-propylbenzene	11.299	91	120369	20.329	ug/l	100
79) 2-Chlorotoluene	11.360	91	74998	19.813	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	88053	20.715	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8674	18.806	ug/l	95
82) 4-Chlorotoluene	11.451	91	86832	20.575	ug/l	100
83) tert-Butylbenzene	11.713	119	84807	20.152	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	86160	20.195	ug/l	99
85) sec-Butylbenzene	11.890	105	106901	20.682	ug/l	100
86) p-Isopropyltoluene	12.006	119	86083	20.201	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	42896	19.841	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	43700	19.938	ug/l	97
89) n-Butylbenzene	12.329	91	74429	20.141	ug/l	99
90) Hexachloroethane	12.536	117	14599	19.934	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	44205	20.565	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7722	20.447	ug/l	96
93) 1,2,4-Trichlorobenzene	13.585	180	22901	19.140	ug/l	99
94) Hexachlorobutadiene	13.725	225	10679	20.712	ug/l	98
95) Naphthalene	13.774	128	87230	19.591	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	24734	19.742	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045667.D
Acq On : 09 Apr 2025 11:49
Operator : JC/MD
Sample : VX0409WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:33:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

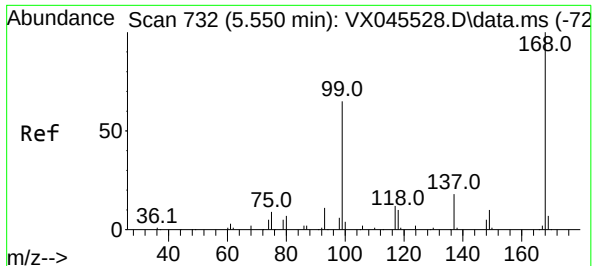
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Manual Integrations APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025





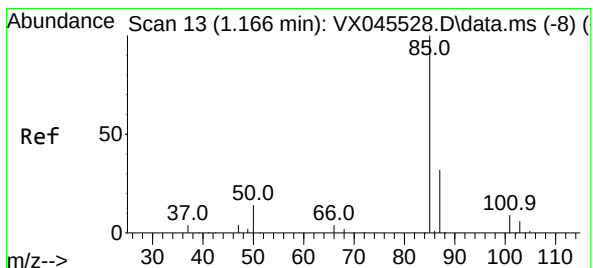
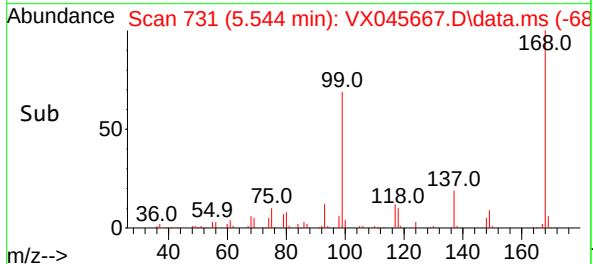
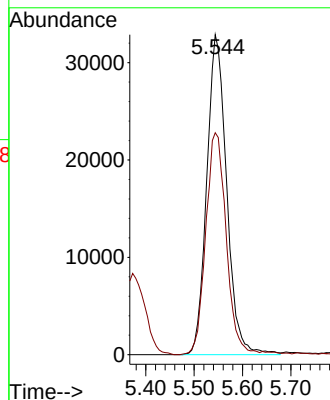
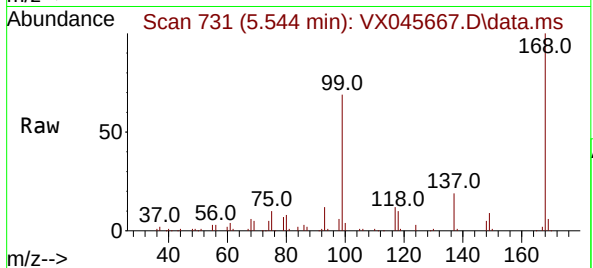
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:168 Resp: 94074
Ion Ratio Lower Upper
168 100
99 69.4 52.3 78.5

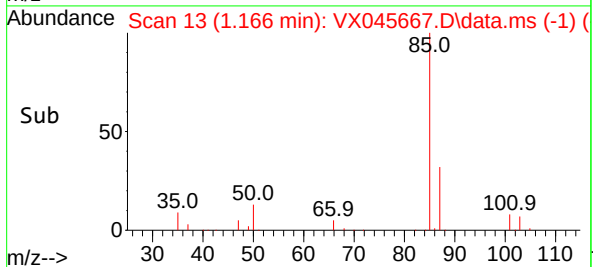
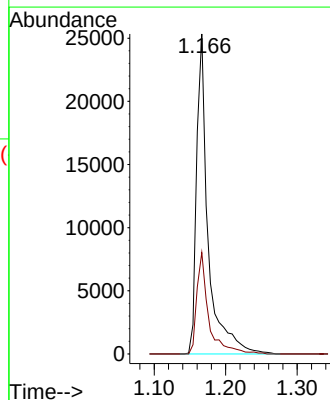
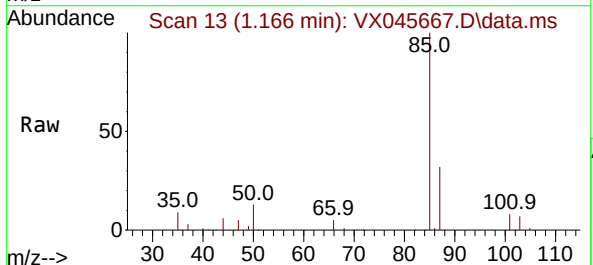
Manual Integrations
APPROVED

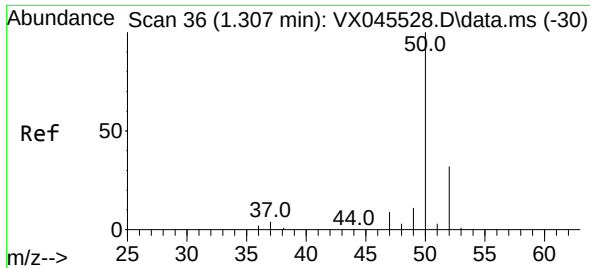
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#2
Dichlorodifluoromethane
Concen: 20.113 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 85 Resp: 28296
Ion Ratio Lower Upper
85 100
87 31.7 16.1 48.2





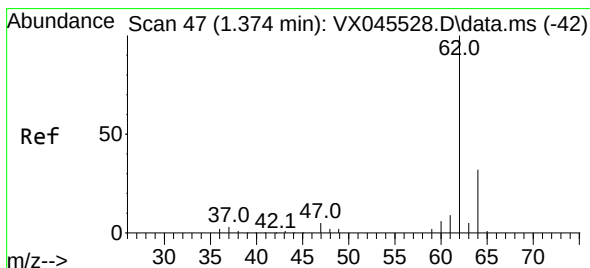
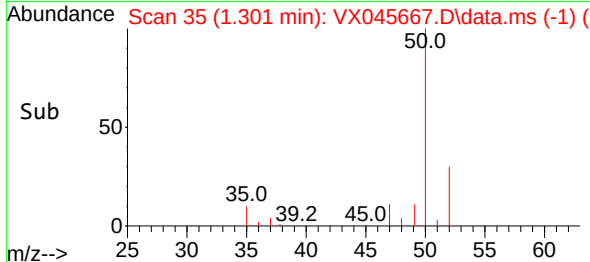
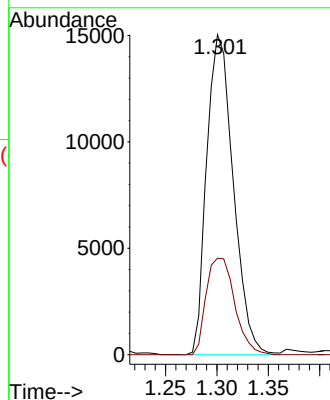
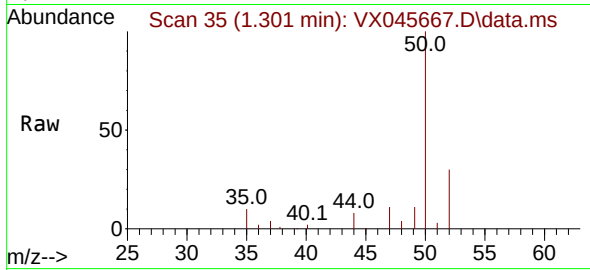
#3
Chloromethane
Concen: 18.746 ug/l
RT: 1.301 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 50 Resp: 27094
Ion Ratio Lower Upper
50 100
52 30.2 25.9 38.9

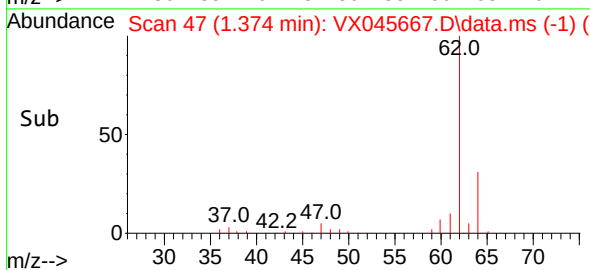
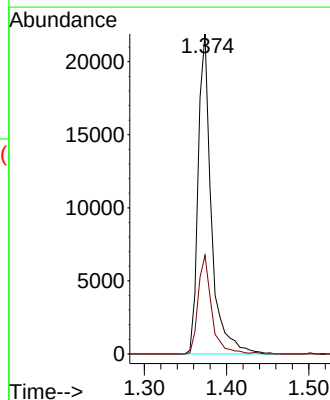
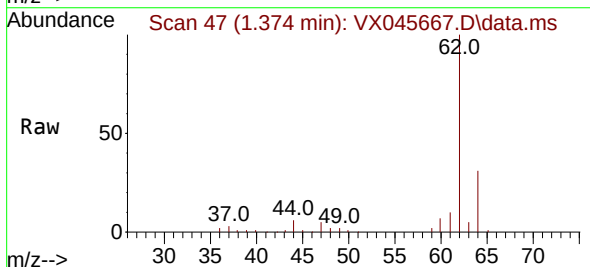
Manual Integrations
APPROVED

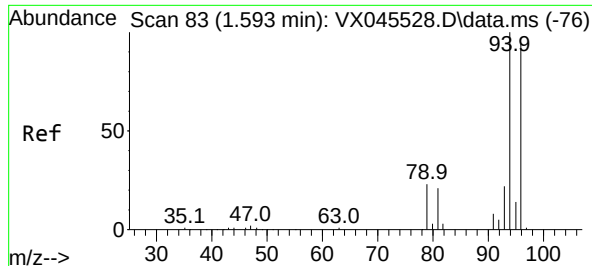
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#4
Vinyl Chloride
Concen: 18.466 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 62 Resp: 24425
Ion Ratio Lower Upper
62 100
64 30.9 25.5 38.3





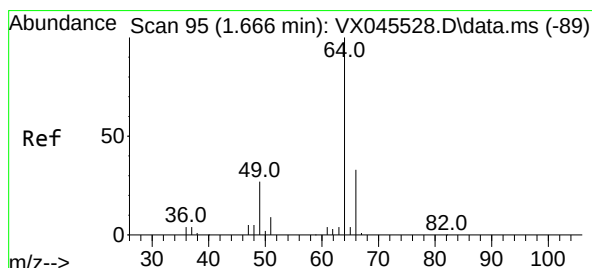
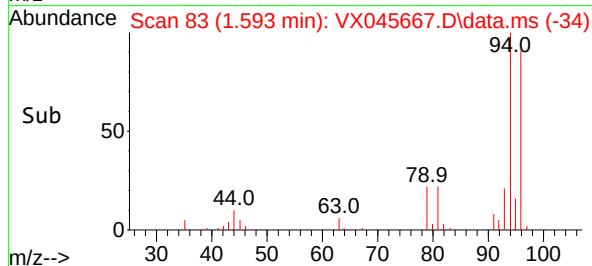
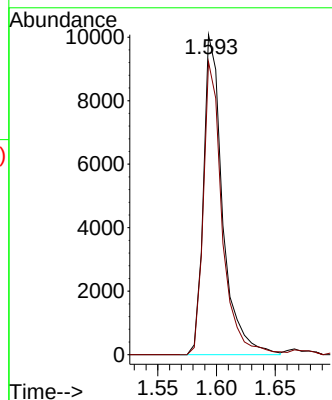
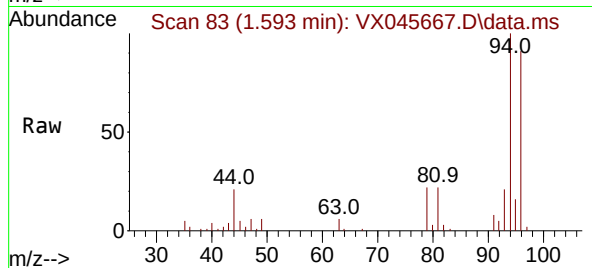
#5
Bromomethane
Concen: 18.169 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 94 Resp: 1139
Ion Ratio Lower Upper
94 100
96 91.5 74.8 112.2

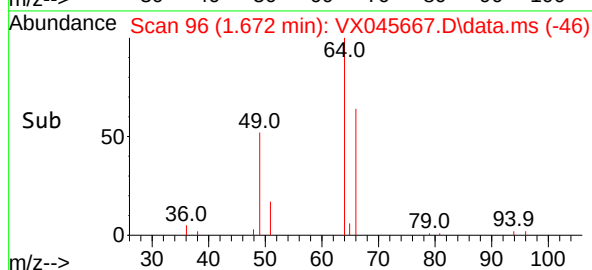
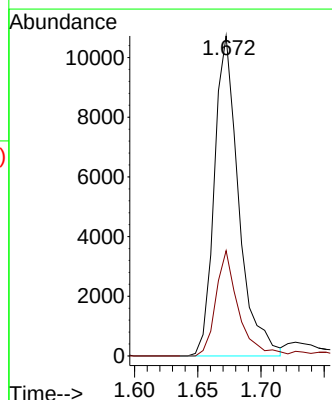
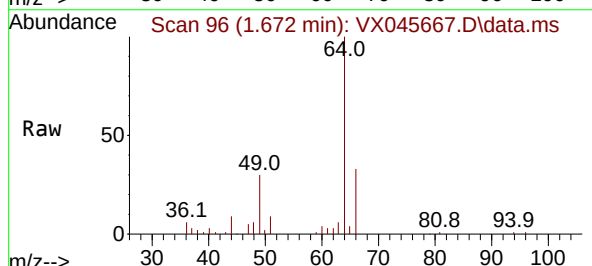
Manual Integrations
APPROVED

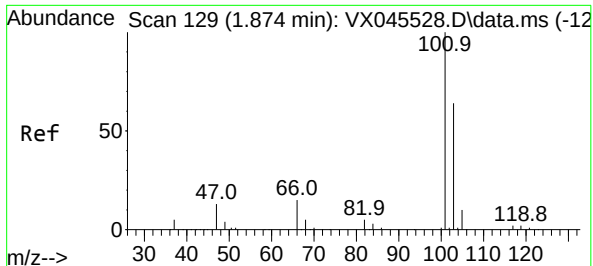
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#6
Chloroethane
Concen: 20.443 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

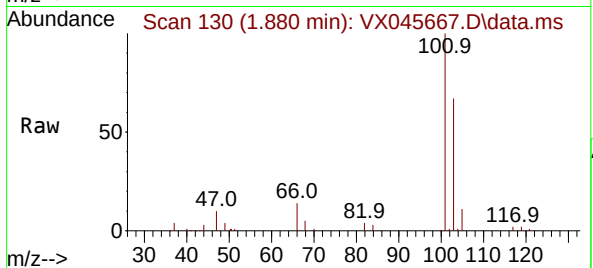
Tgt Ion: 64 Resp: 14346
Ion Ratio Lower Upper
64 100
66 32.9 26.3 39.5





#7
Trichlorofluoromethane
Concen: 19.702 ug/l
RT: 1.880 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

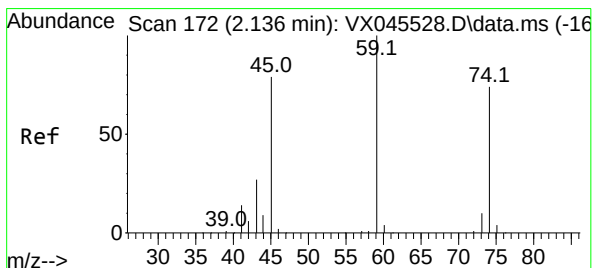
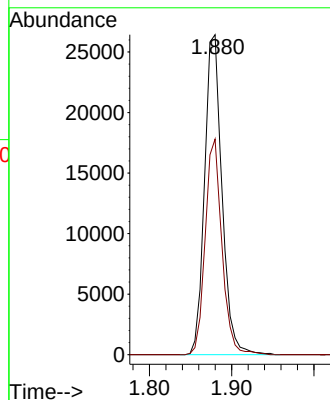
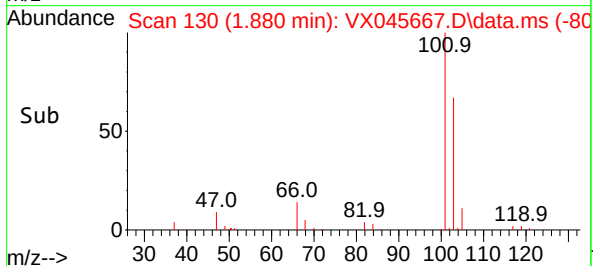
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01



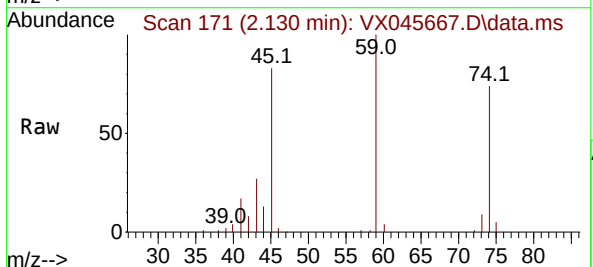
Tgt Ion:101 Resp: 3886
Ion Ratio Lower Upper
101 100
103 67.3 51.1 76.7

Manual Integrations
APPROVED

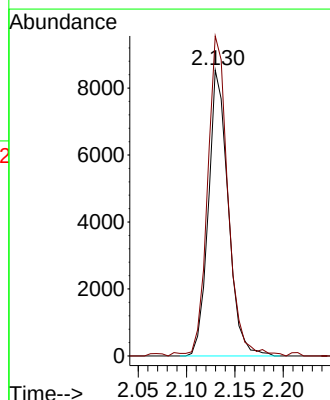
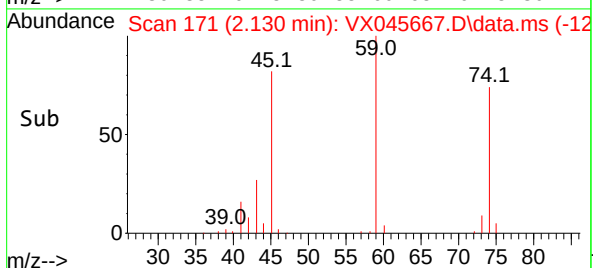
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

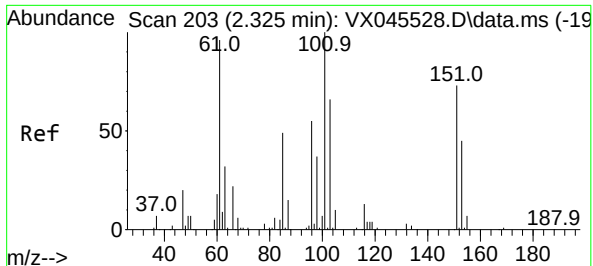


#8
Diethyl Ether
Concen: 18.364 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49



Tgt Ion: 74 Resp: 12161
Ion Ratio Lower Upper
74 100
45 115.4 53.0 159.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.436 ug/l

RT: 2.319 min Scan# 203

Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

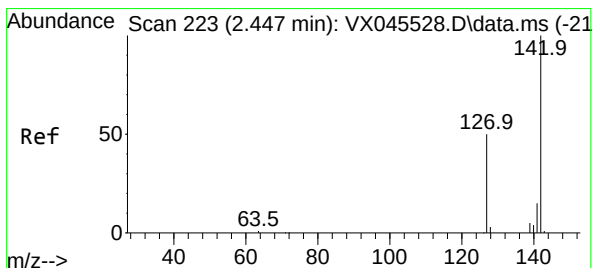
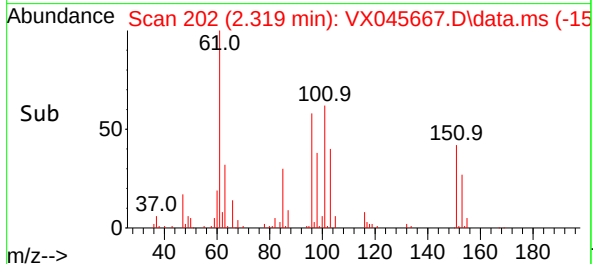
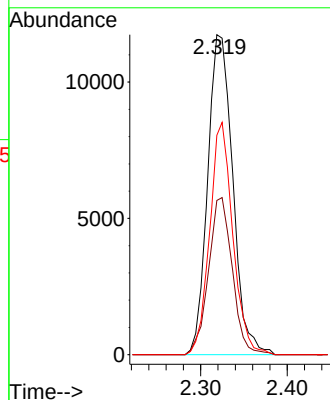
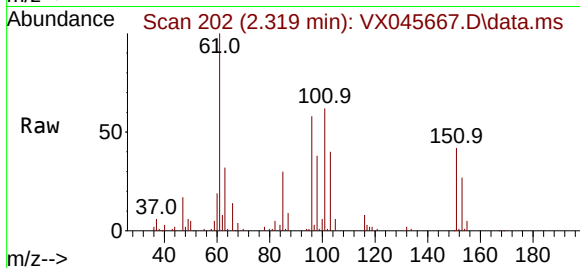
Tgt Ion:	101	Resp:	23620
Ion	Ratio	Lower	Upper
101	100		
85	46.5	38.9	58.3
151	67.0	57.5	86.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#10

Methyl Iodide

Concen: 18.520 ug/l

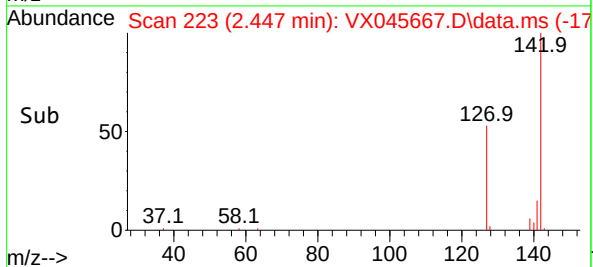
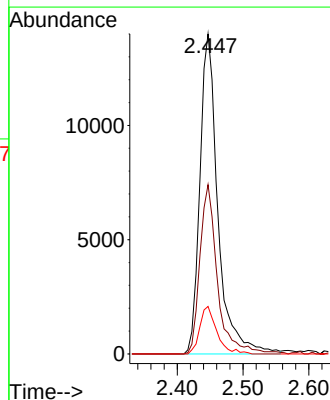
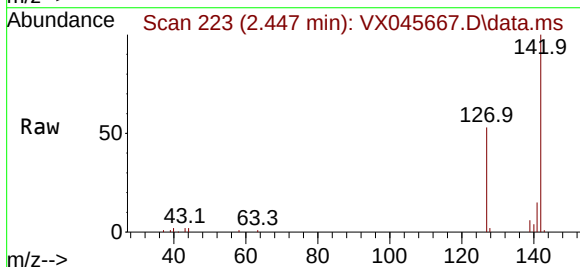
RT: 2.447 min Scan# 223

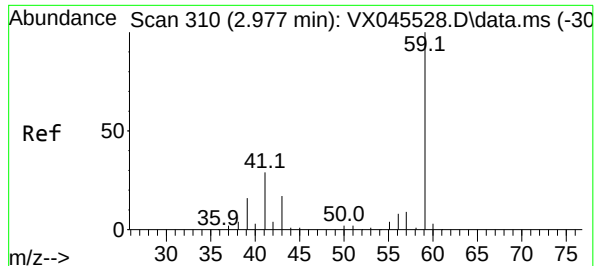
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	142	Resp:	26699
Ion	Ratio	Lower	Upper
142	100		
127	51.5	40.2	60.4
141	14.0	11.7	17.5





#11

Tert butyl alcohol

Concen: 96.798 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.012 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 59 Resp: 22380

Ion Ratio Lower Upper

59 100

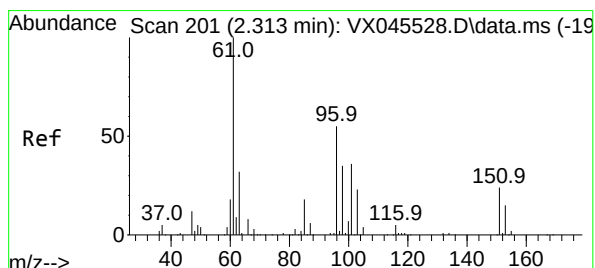
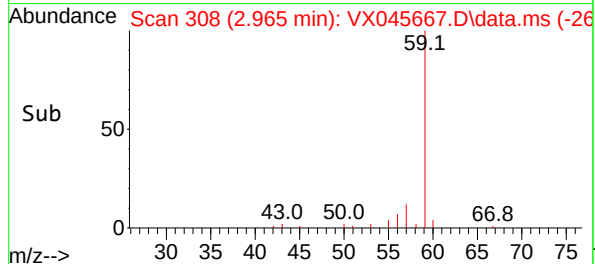
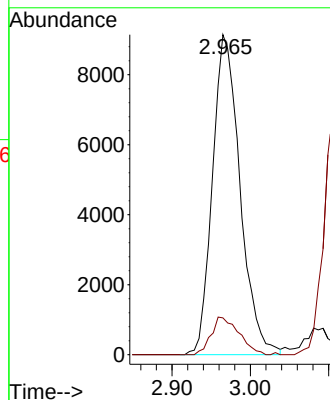
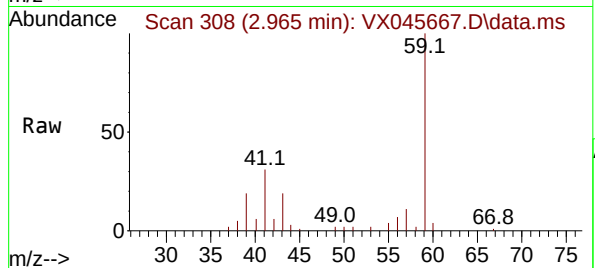
57 11.8 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#12

1,1-Dichloroethene

Concen: 18.391 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

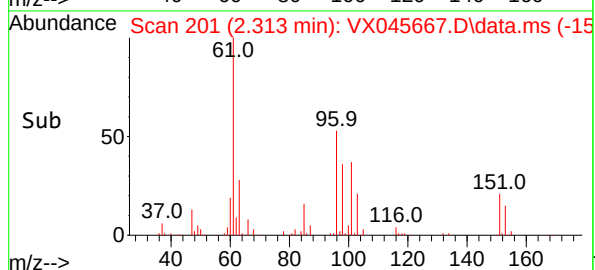
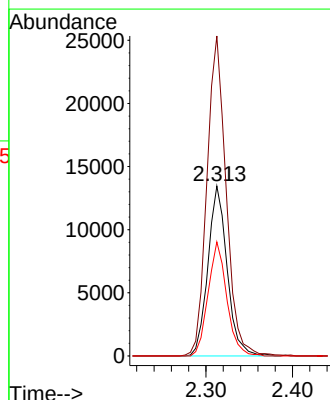
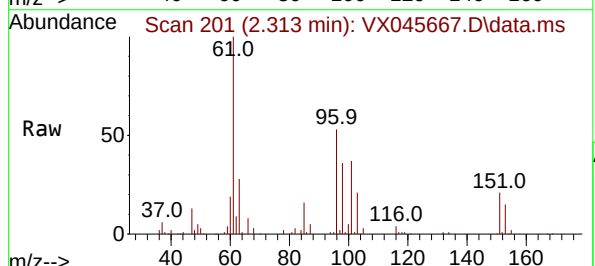
Tgt Ion: 96 Resp: 20770

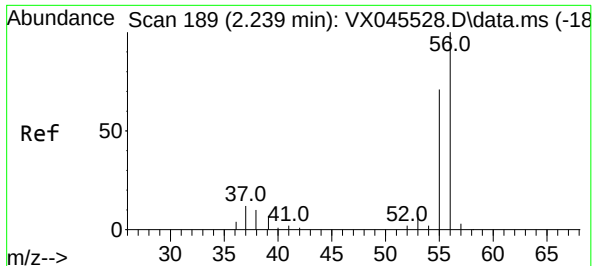
Ion Ratio Lower Upper

96 100

61 188.3 145.7 218.5

98 67.2 51.6 77.4





#13

Acrolein

Concen: 80.591 ug/l

RT: 2.233 min Scan# 189

Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 56 Resp: 25659

Ion Ratio Lower Upper

56 100

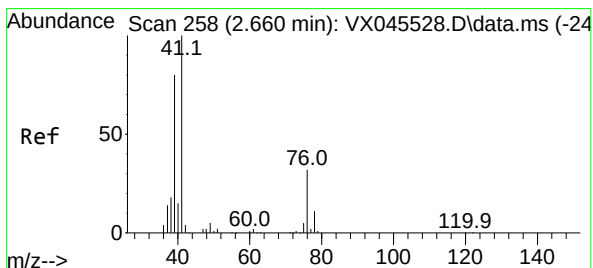
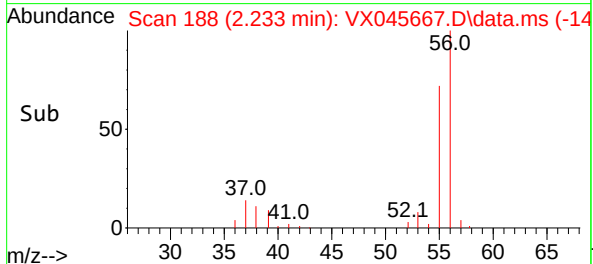
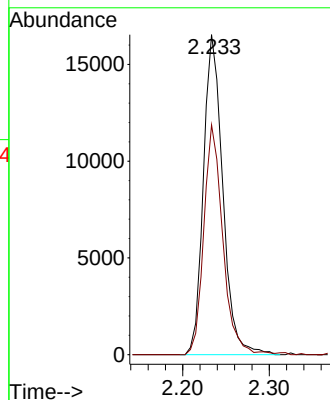
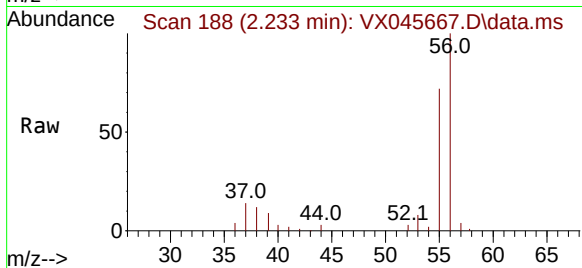
55 70.8 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#14

Allyl chloride

Concen: 19.404 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

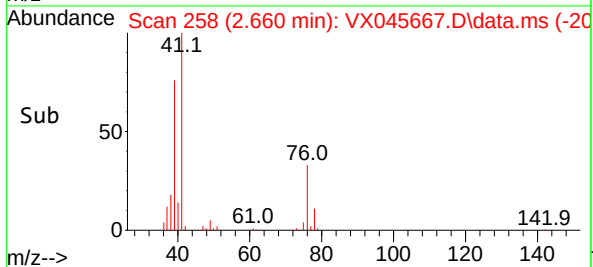
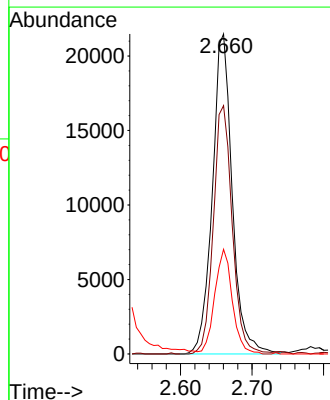
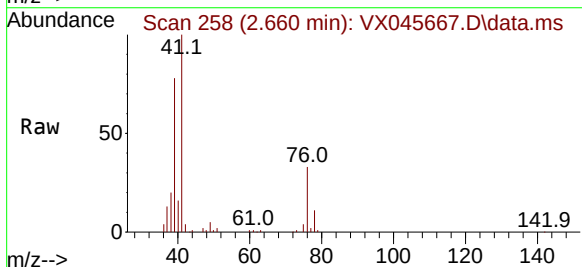
Tgt Ion: 41 Resp: 41579

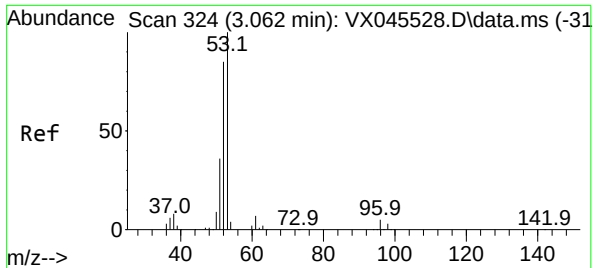
Ion Ratio Lower Upper

41 100

39 73.5 60.2 90.2

76 29.0 24.6 36.8





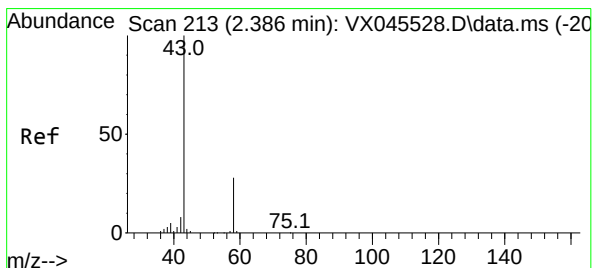
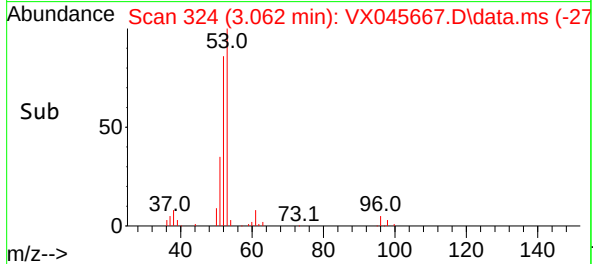
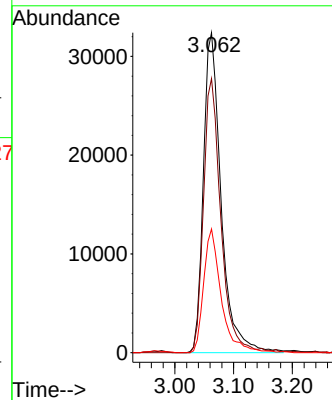
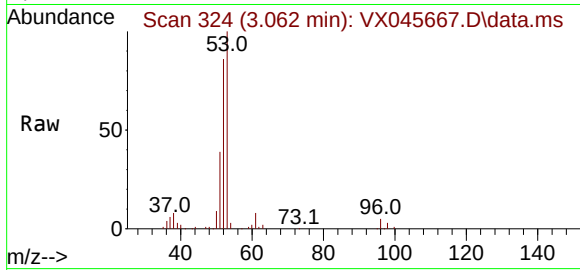
#15
Acrylonitrile
Concen: 93.374 ug/l
RT: 3.062 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:	53	Resp:	6814
Ion	Ratio	Lower	Upper
53	100		
52	84.5	67.4	101.2
51	38.4	29.9	44.9

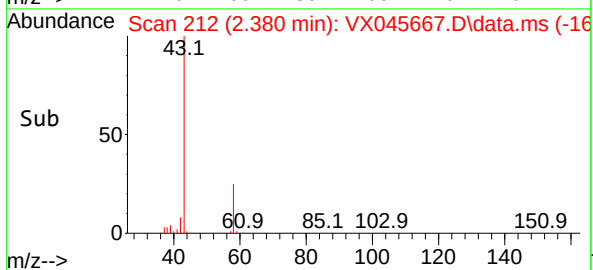
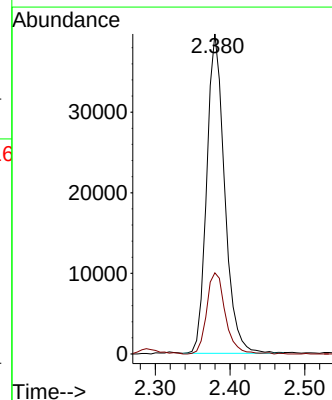
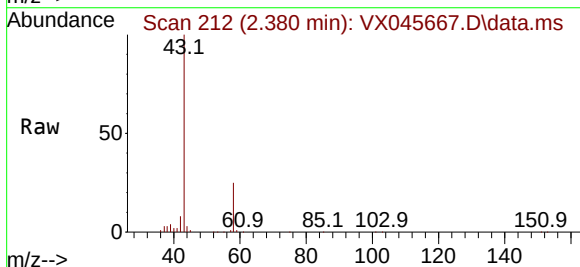
Manual Integrations
APPROVED

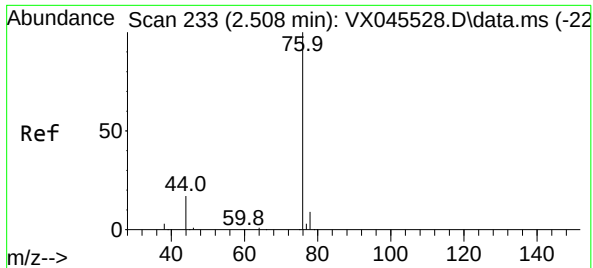
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#16
Acetone
Concen: 93.280 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion:	43	Resp:	65896
Ion	Ratio	Lower	Upper
43	100		
58	25.4	22.3	33.5





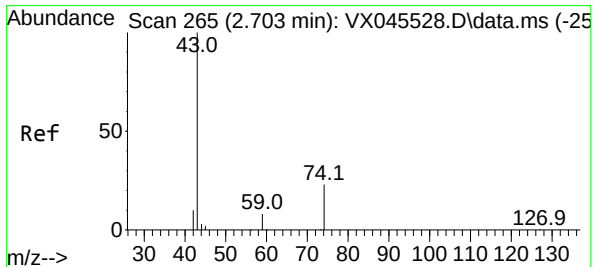
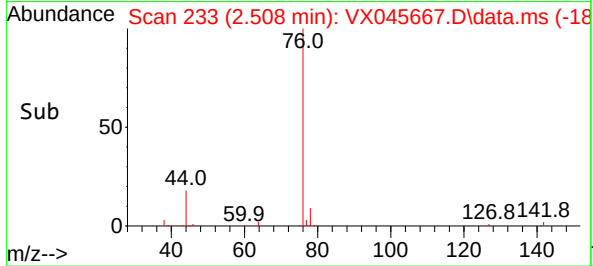
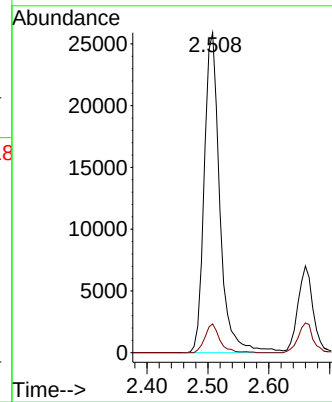
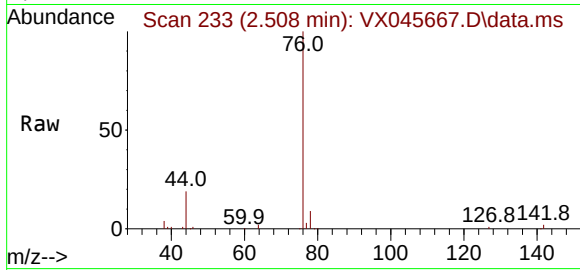
#17
Carbon Disulfide
Concen: 16.502 ug/l
RT: 2.508 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 76 Resp: 46029
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.6

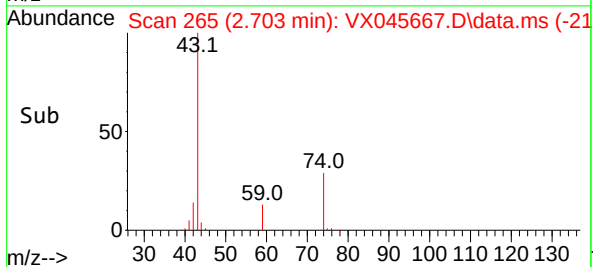
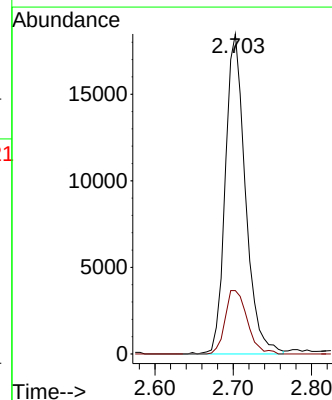
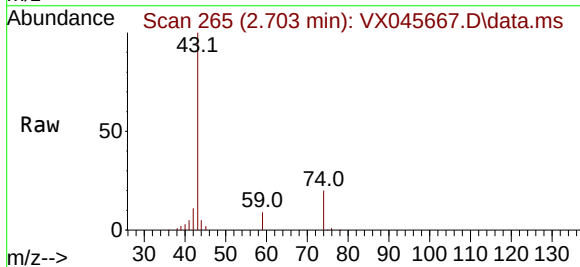
Manual Integrations
APPROVED

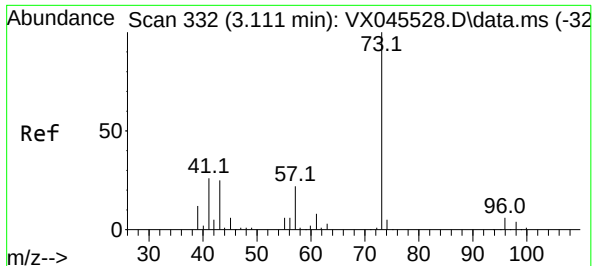
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#18
Methyl Acetate
Concen: 20.244 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 43 Resp: 32926
Ion Ratio Lower Upper
43 100
74 21.9 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 19.265 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 73 Resp: 76110

Ion Ratio Lower Upper

73 100

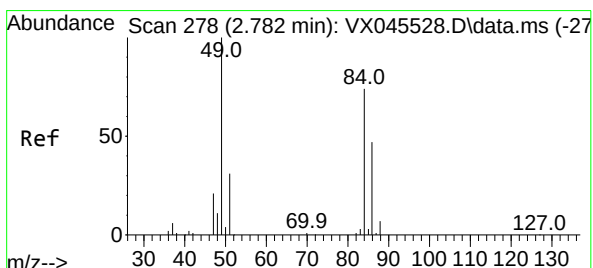
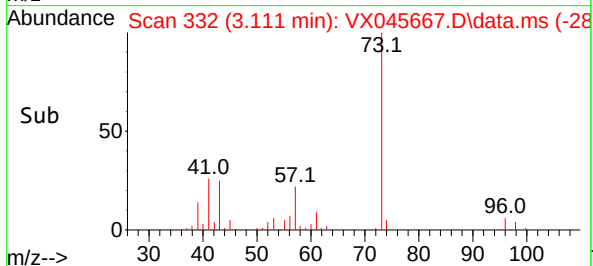
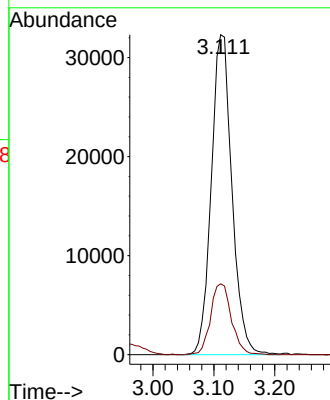
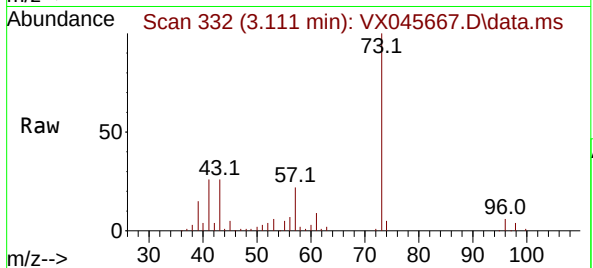
57 22.2 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#20

Methylene Chloride

Concen: 18.320 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion: 84 Resp: 24229

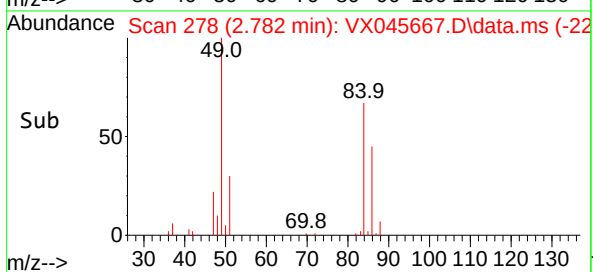
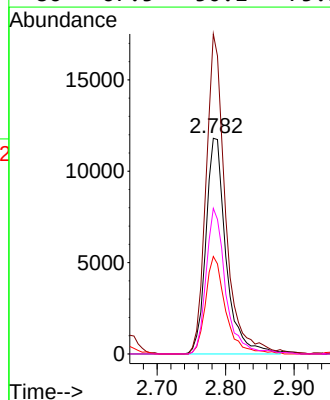
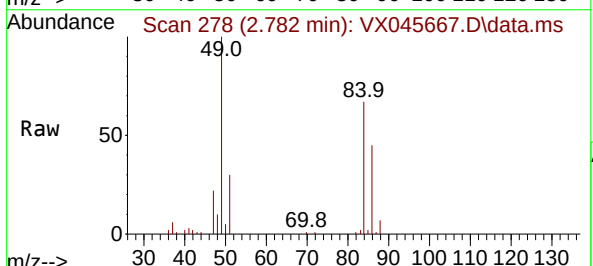
Ion Ratio Lower Upper

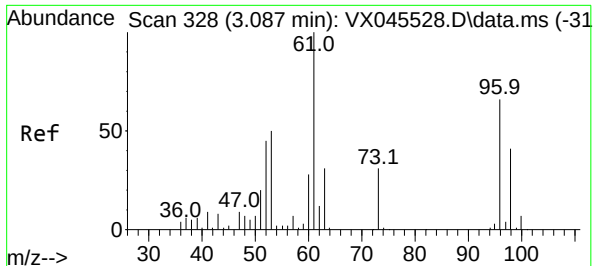
84 100

49 148.4 107.5 161.3

51 45.2 33.0 49.6

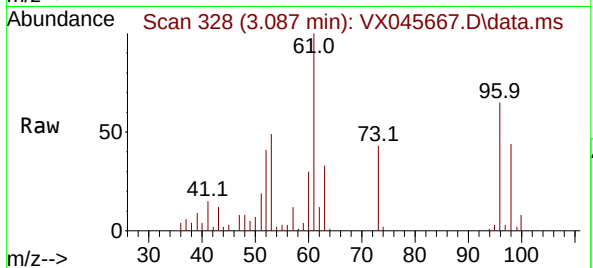
86 67.5 50.1 75.1





#21
trans-1,2-Dichloroethene
Concen: 18.424 ug/l
RT: 3.087 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

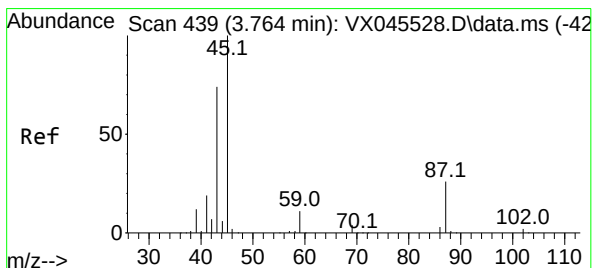
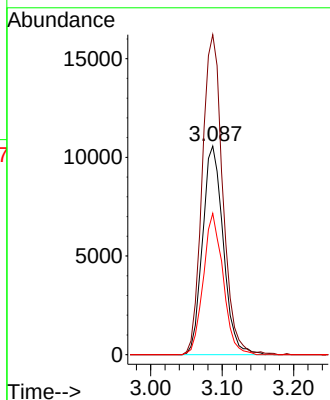
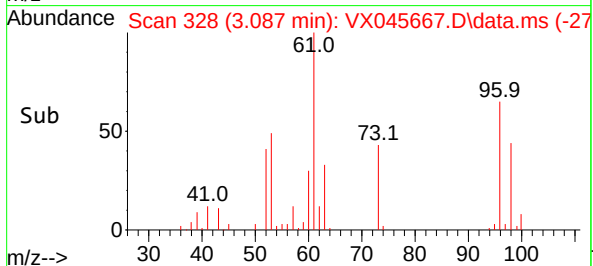
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01



Tgt Ion: 96 Resp: 2125
Ion Ratio Lower Upper
96 100
61 153.4 121.0 181.6
98 67.7 49.7 74.5

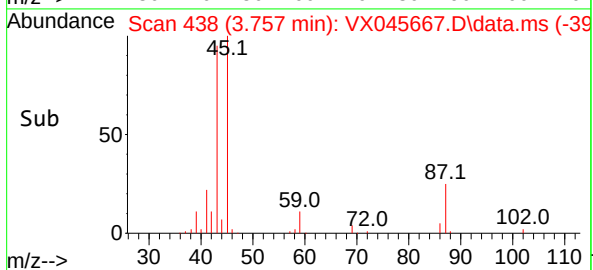
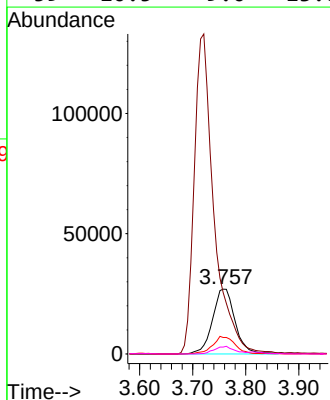
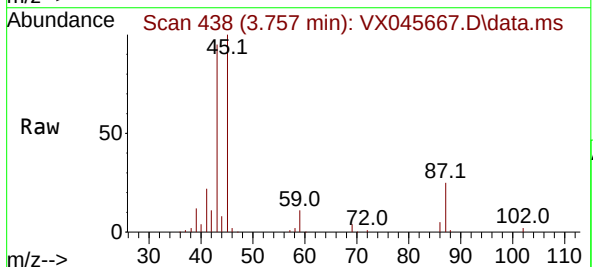
Manual Integrations
APPROVED

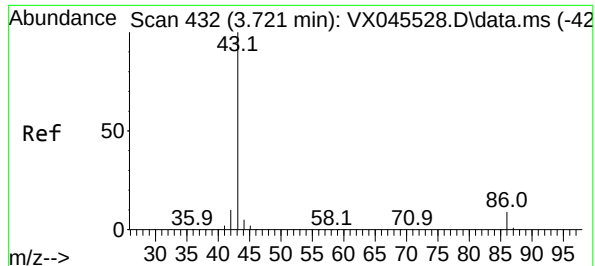
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#22
Diisopropyl ether
Concen: 18.861 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 45 Resp: 79613
Ion Ratio Lower Upper
45 100
43 94.7 59.3 88.9#
87 25.4 20.4 30.6
59 10.5 9.0 13.6





#23

Vinyl Acetate

Concen: 94.659 ug/l

RT: 3.721 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 43 Resp: 345218

Ion Ratio Lower Upper

43 100

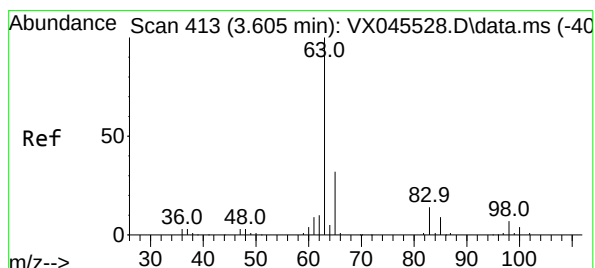
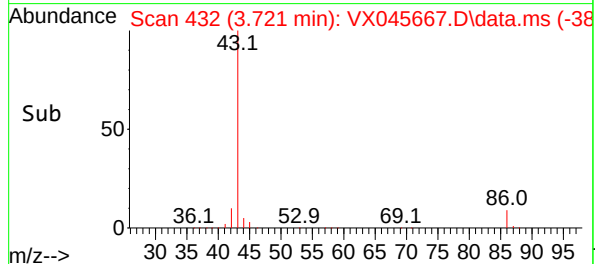
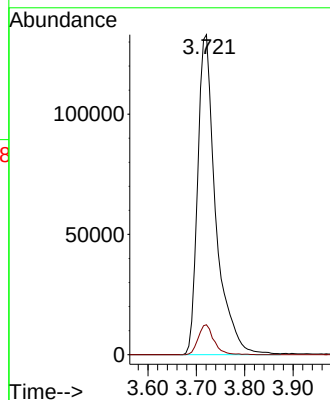
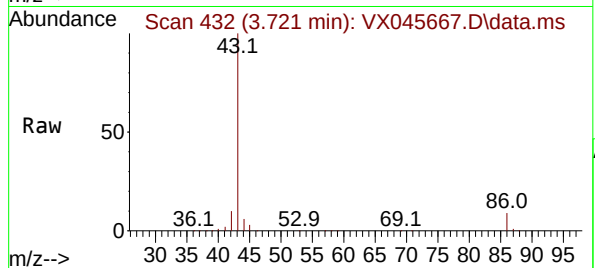
86 9.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#24

1,1-Dichloroethane

Concen: 19.137 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

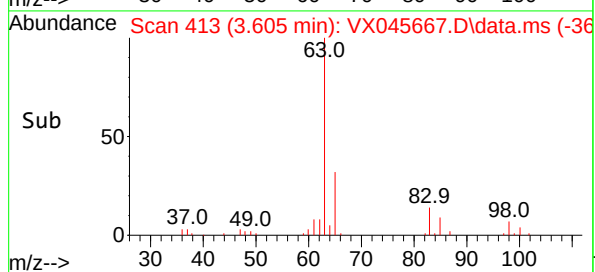
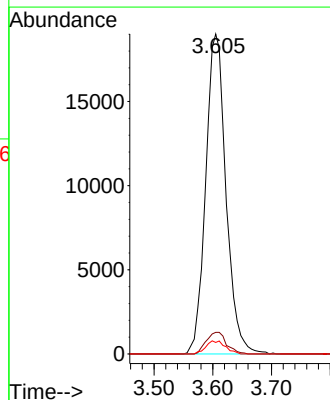
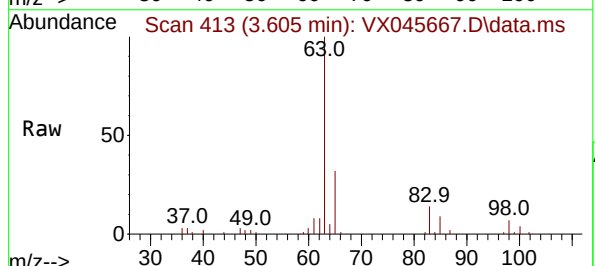
Tgt Ion: 63 Resp: 45684

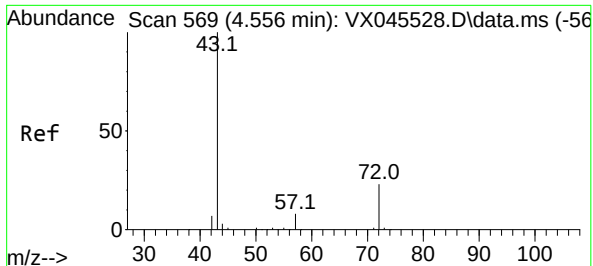
Ion Ratio Lower Upper

63 100

98 6.7 3.4 10.1

100 3.6 2.2 6.6





#25

2-Butanone

Concen: 94.586 ug/l

RT: 4.556 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 43 Resp: 97809

Ion Ratio Lower Upper

43 100

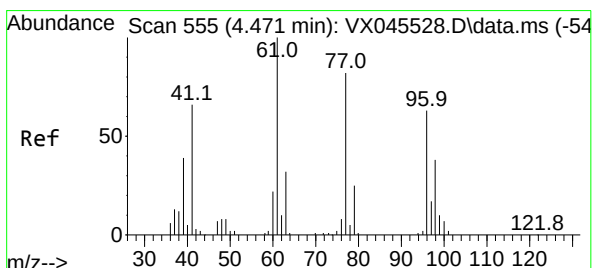
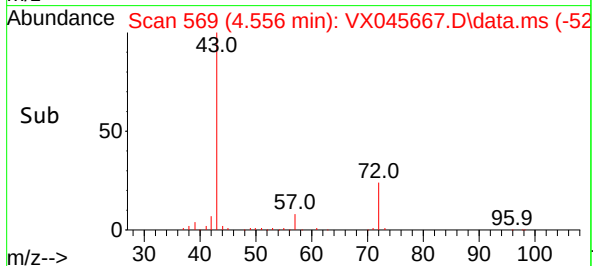
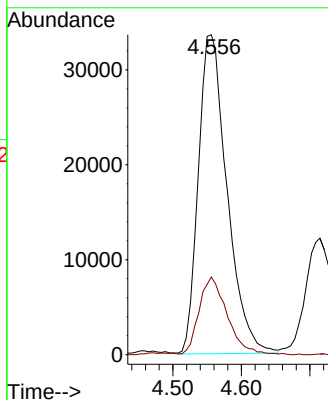
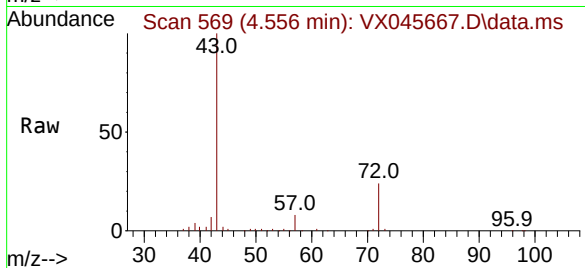
72 24.2 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#26

2,2-Dichloropropane

Concen: 21.275 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX045667.D

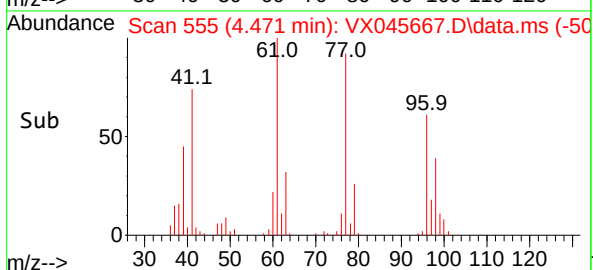
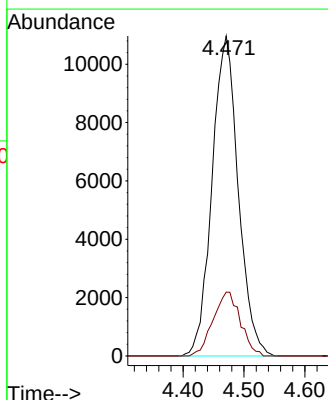
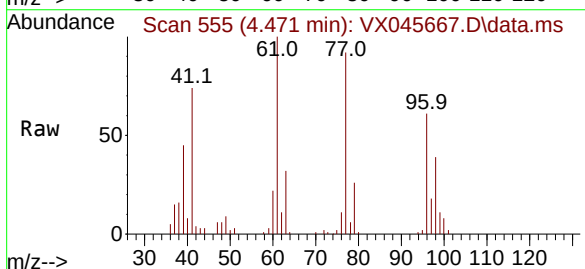
Acq: 09 Apr 2025 11:49

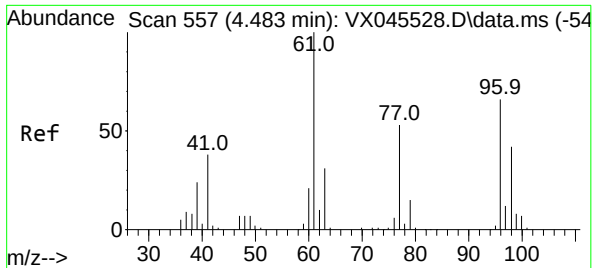
Tgt Ion: 77 Resp: 32813

Ion Ratio Lower Upper

77 100

97 20.8 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 18.585 ug/l

RT: 4.489 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 96 Resp: 2612

Ion Ratio Lower Upper

96 100

61 161.7 0.0 313.2

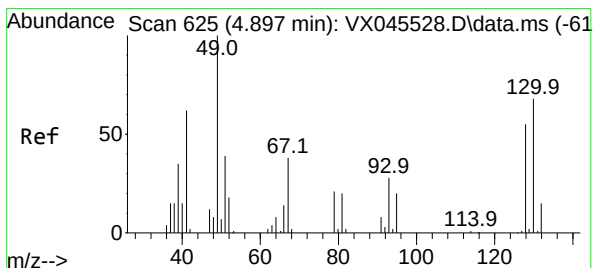
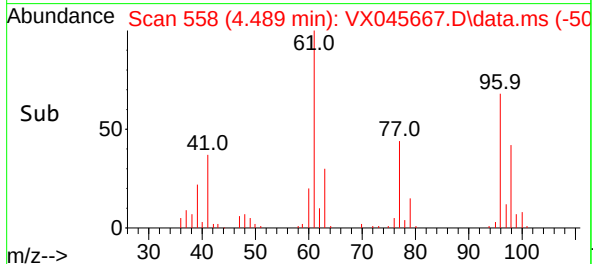
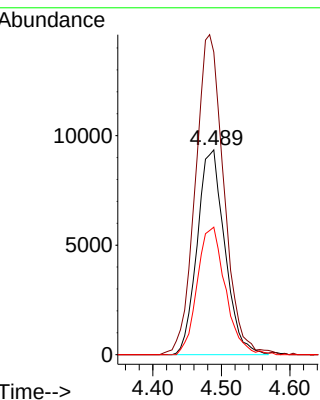
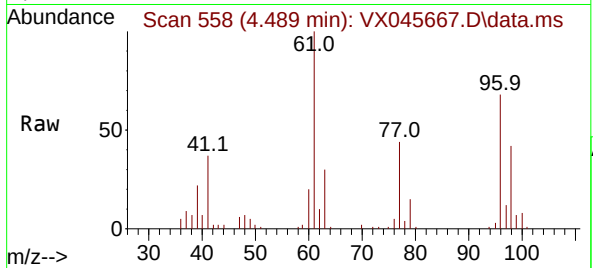
98 63.6 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#28

Bromochloromethane

Concen: 19.766 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

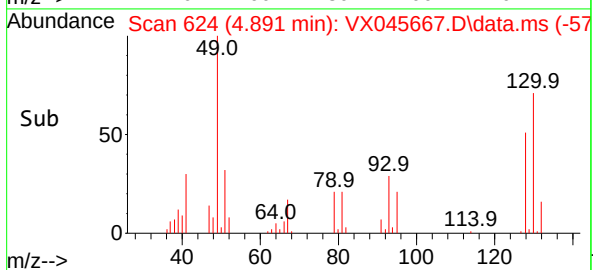
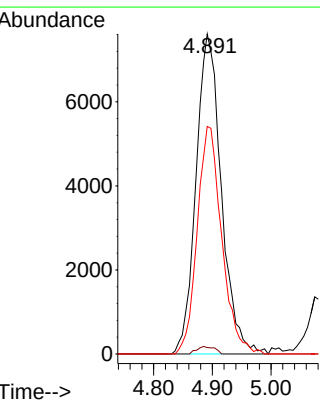
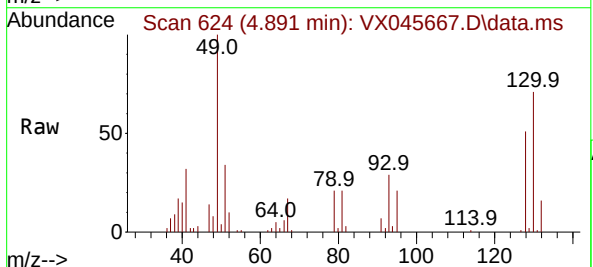
Tgt Ion: 49 Resp: 22802

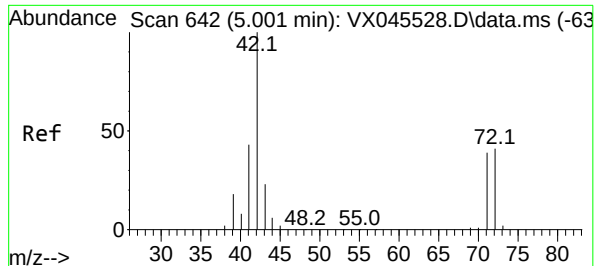
Ion Ratio Lower Upper

49 100

129 1.6 0.0 3.8

130 68.9 54.6 81.8





#29

Tetrahydrofuran

Concen: 93.742 ug/l

RT: 5.007 min Scan# 642

Delta R.T. 0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

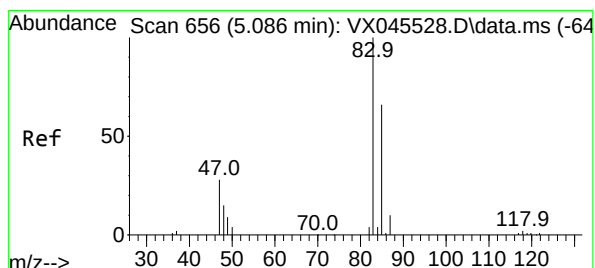
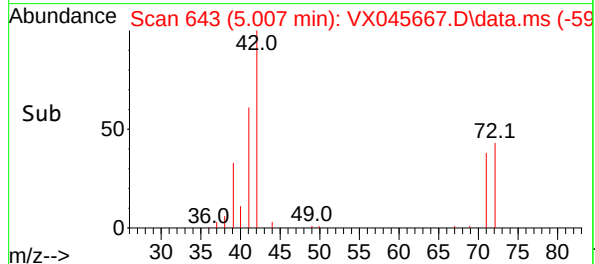
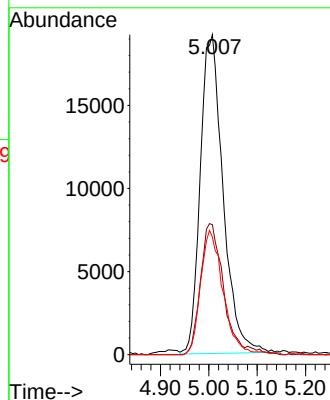
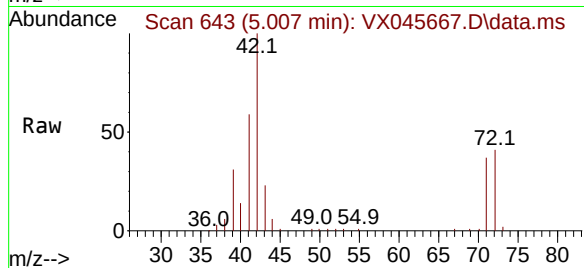
Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion:	42	Resp:	6284
Ion	Ratio	Lower	Upper
42	100		
72	42.0	33.4	50.0
71	38.5	31.4	47.0

Manual Integrations
APPROVEDReviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

#30

Chloroform

Concen: 19.348 ug/l

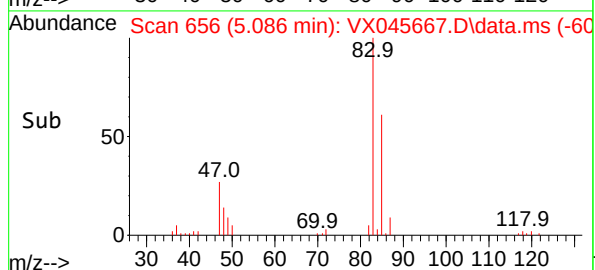
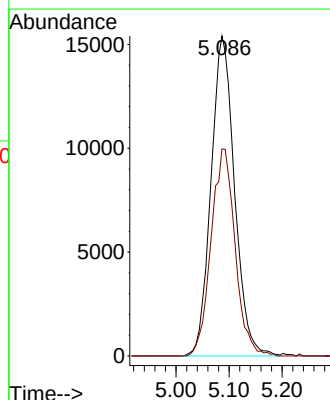
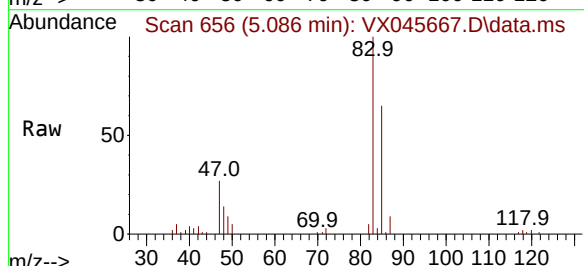
RT: 5.086 min Scan# 656

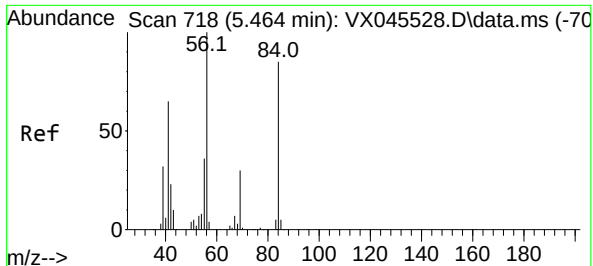
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	83	Resp:	47524
Ion	Ratio	Lower	Upper
83	100		
85	64.7	52.8	79.2





#31

Cyclohexane

Concen: 18.537 ug/l

RT: 5.458 min Scan# 717

Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 56 Resp: 3912

Ion Ratio Lower Upper

56 100

69 28.2 23.6 35.4

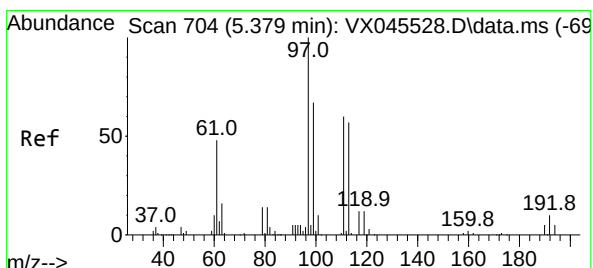
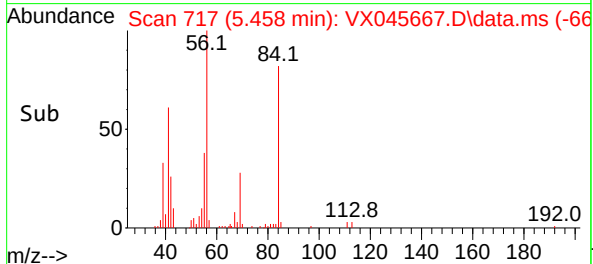
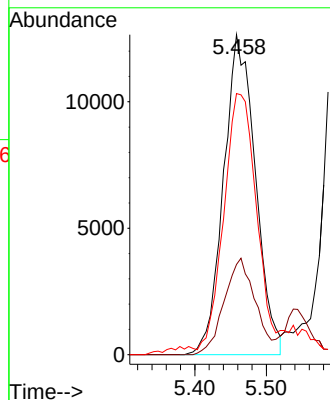
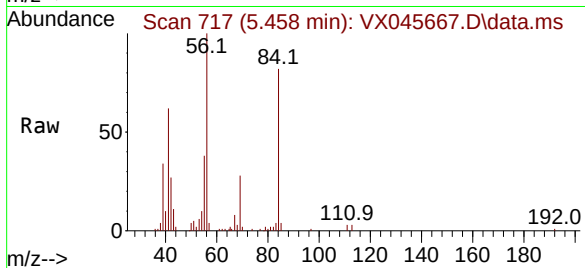
84 79.0 67.7 101.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#32

1,1,1-Trichloroethane

Concen: 19.150 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

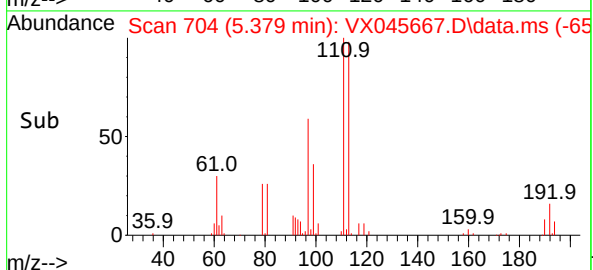
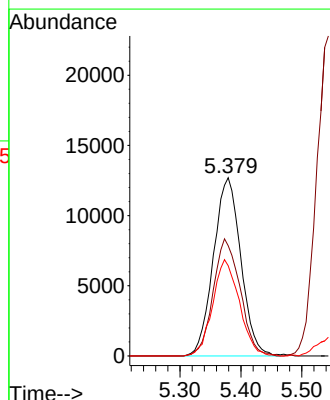
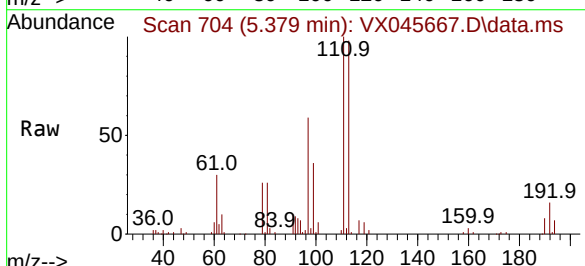
Tgt Ion: 97 Resp: 39802

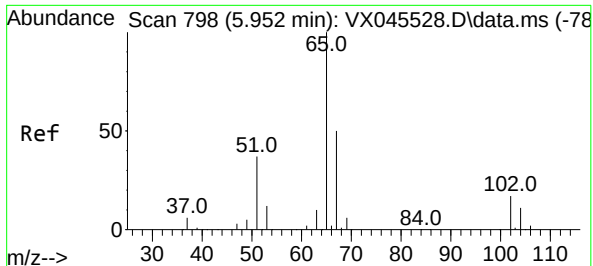
Ion Ratio Lower Upper

97 100

99 64.3 51.7 77.5

61 52.5 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 53.508 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 65 Resp: 9205

Ion Ratio Lower Upper

65 100

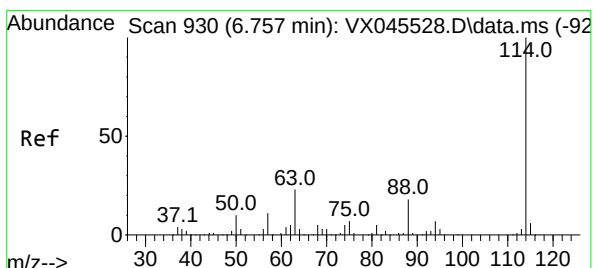
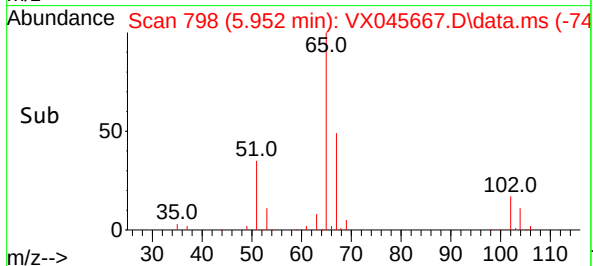
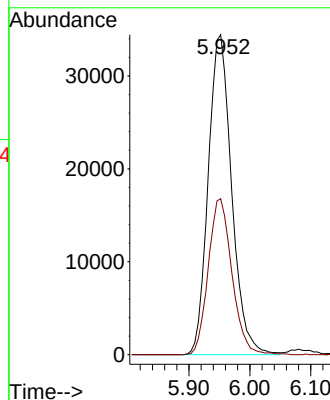
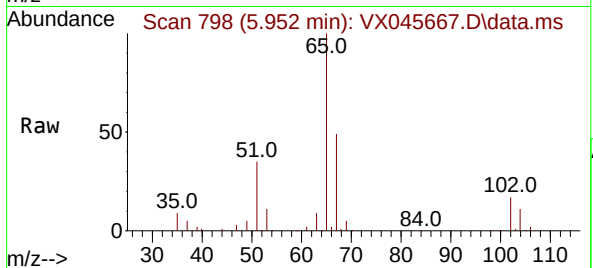
67 49.3 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

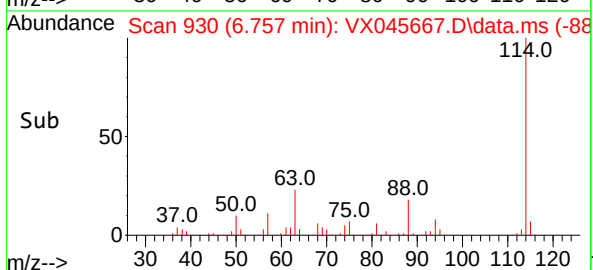
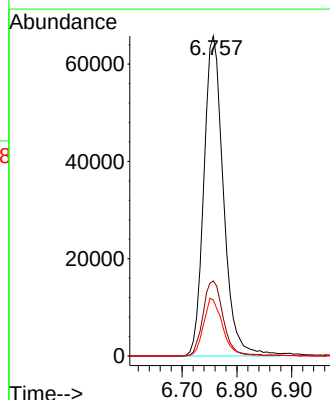
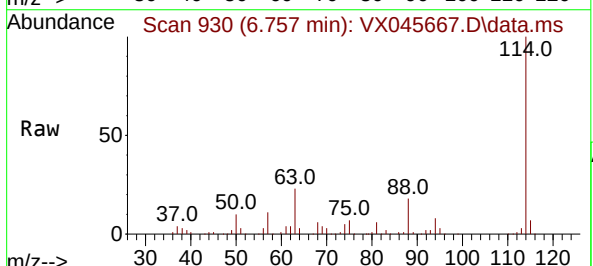
Tgt Ion:114 Resp: 163361

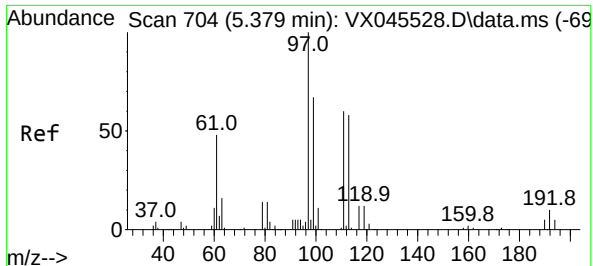
Ion Ratio Lower Upper

114 100

63 23.5 0.0 46.8

88 17.5 0.0 35.4





#35

Dibromofluoromethane

Concen: 54.505 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

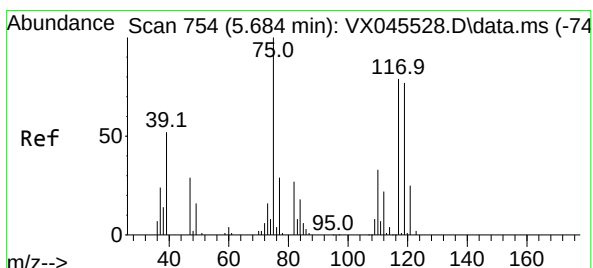
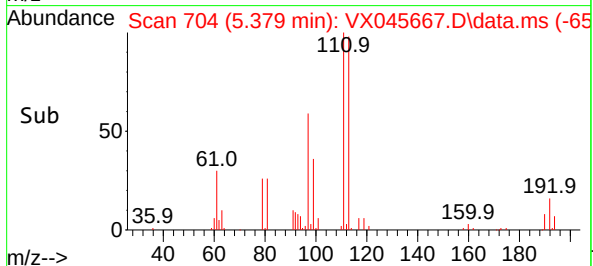
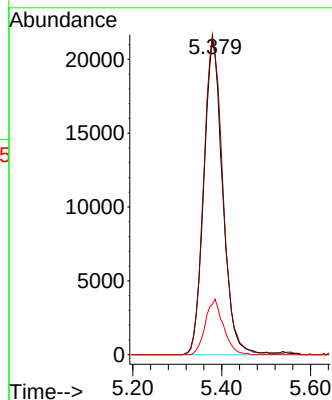
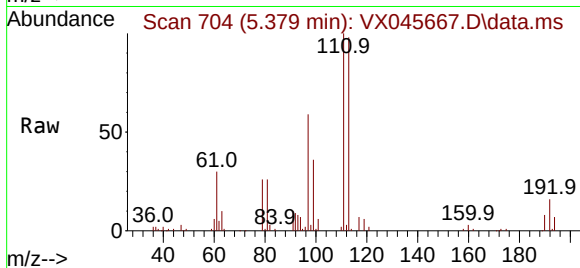
Tgt Ion:	113	Resp:	63174
Ion	Ratio	Lower	Upper
113	100		
111	102.1	81.8	122.6
192	16.7	13.8	20.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#36

1,1-Dichloropropene

Concen: 19.713 ug/l

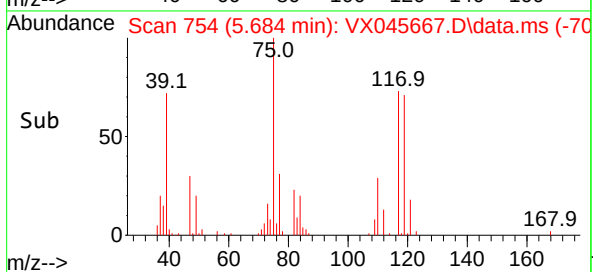
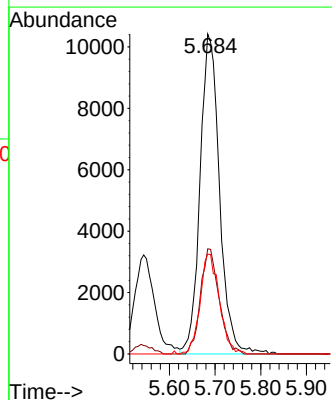
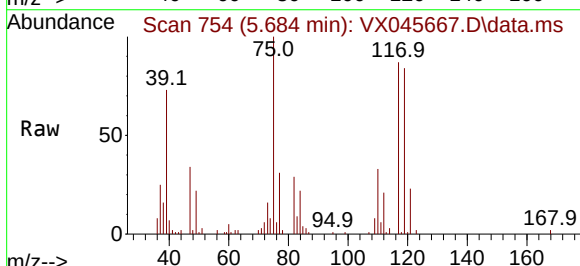
RT: 5.684 min Scan# 754

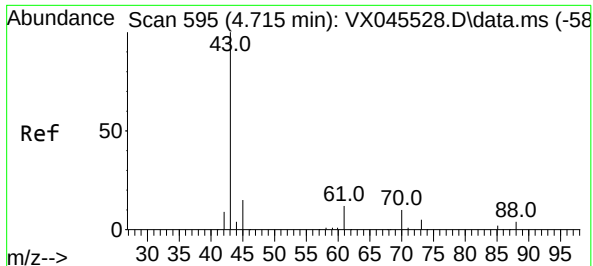
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	75	Resp:	30850
Ion	Ratio	Lower	Upper
75	100		
110	31.4	16.9	50.6
77	30.9	25.0	37.4





#37

Ethyl Acetate

Concen: 18.112 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

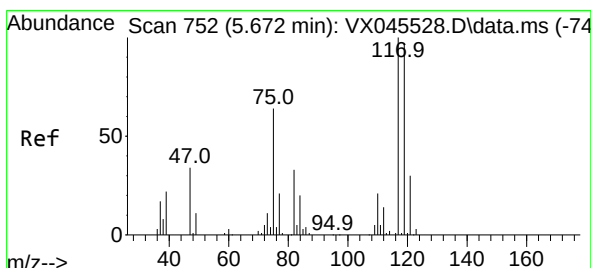
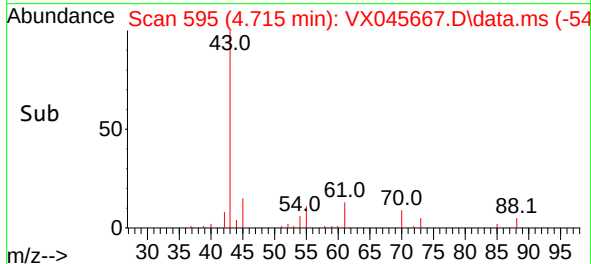
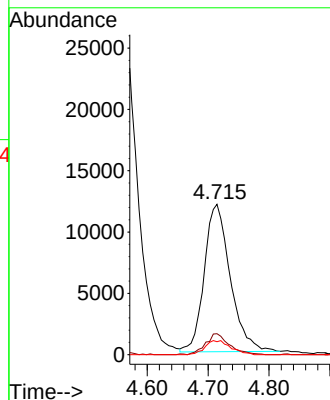
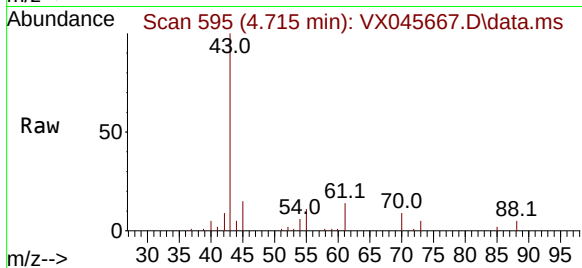
VX0409WBS01

Tgt Ion:	43	Resp:	35720
Ion	Ratio	Lower	Upper
43	100		
61	13.0	9.9	14.9
70	9.4	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#38

Carbon Tetrachloride

Concen: 20.092 ug/l

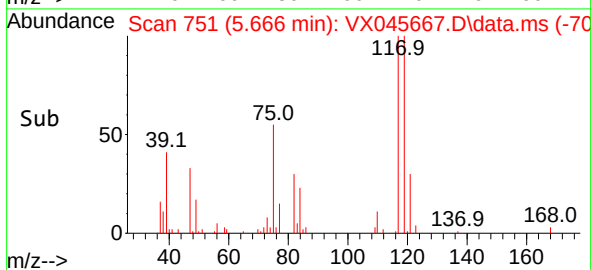
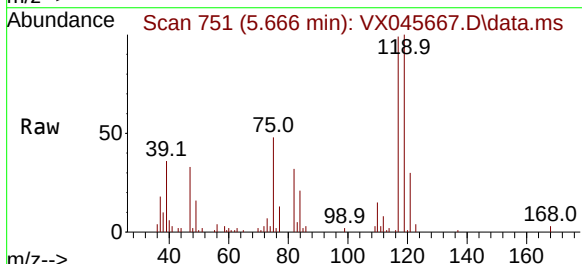
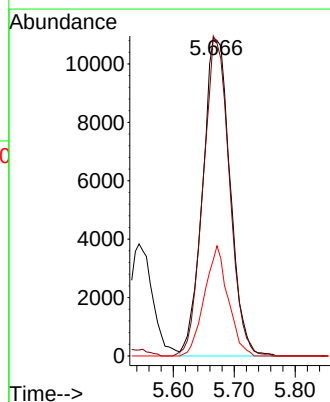
RT: 5.666 min Scan# 751

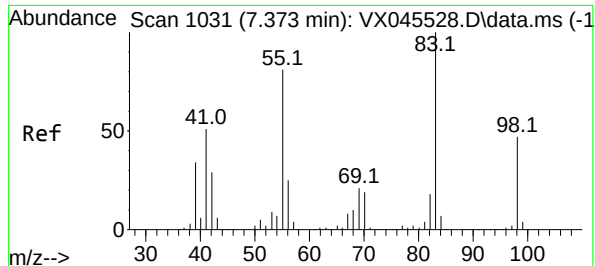
Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	117	Resp:	33982
Ion	Ratio	Lower	Upper
117	100		
119	100.6	76.9	115.3
121	30.3	24.2	36.2





#39

Methylcyclohexane

Concen: 19.494 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

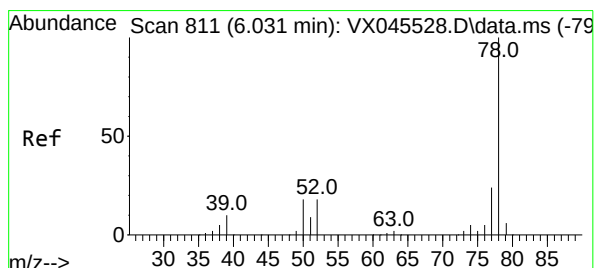
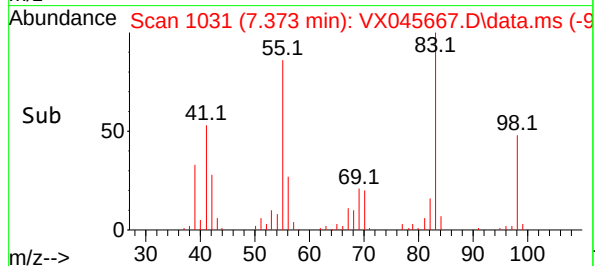
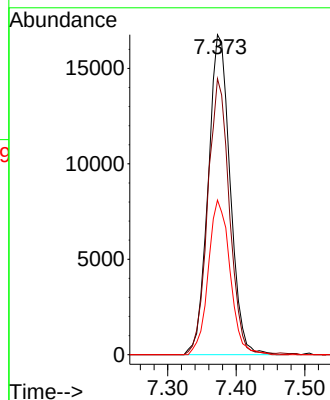
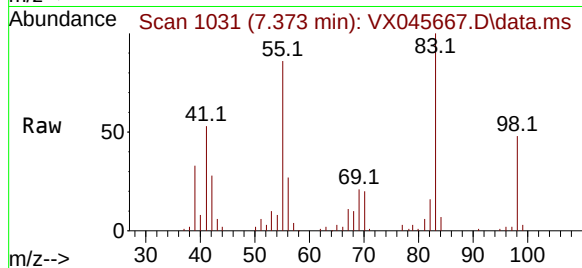
Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion:	83	Resp:	37390
Ion	Ratio	Lower	Upper
83	100		
55	86.3	64.9	97.3
98	48.3	37.4	56.0

Manual Integrations
APPROVEDReviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

#40

Benzene

Concen: 19.301 ug/l

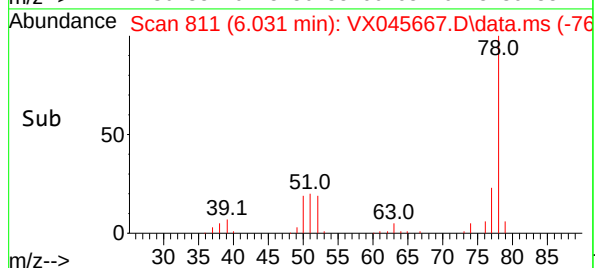
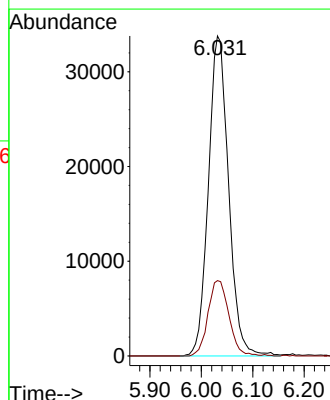
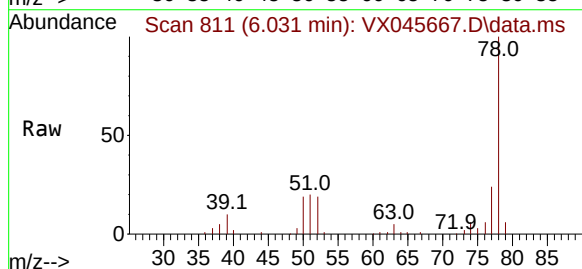
RT: 6.031 min Scan# 811

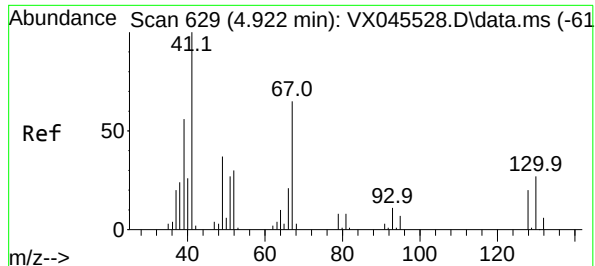
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	78	Resp:	92251
Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.0	28.6





#41

Methacrylonitrile

Concen: 20.397 ug/l

RT: 4.916 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 41 Resp: 21224

Ion Ratio Lower Upper

41 100

39 56.3 47.0 70.6

67 64.1 53.2 79.8

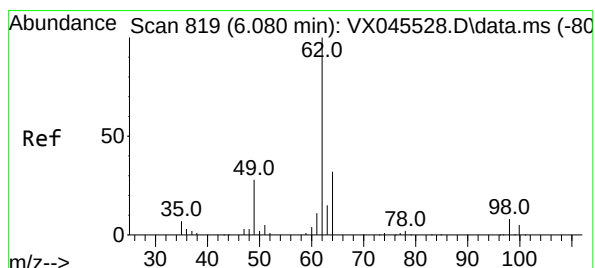
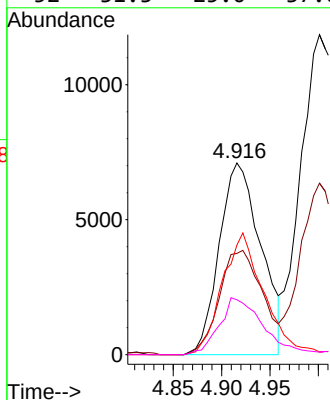
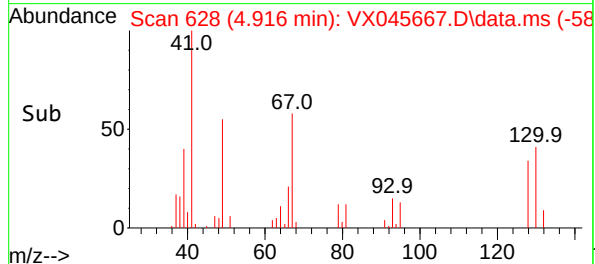
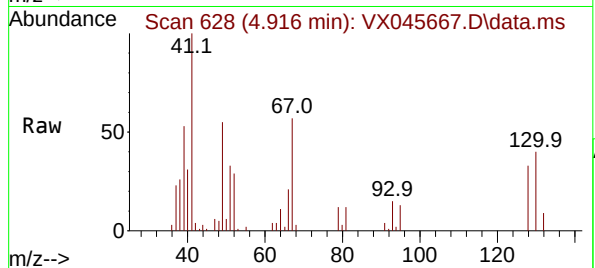
52 31.3 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#42

1,2-Dichloroethane

Concen: 20.397 ug/l

RT: 6.086 min Scan# 820

Delta R.T. 0.006 min

Lab File: VX045667.D

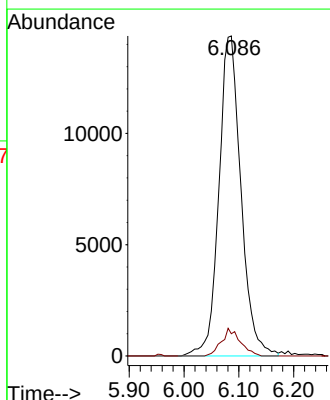
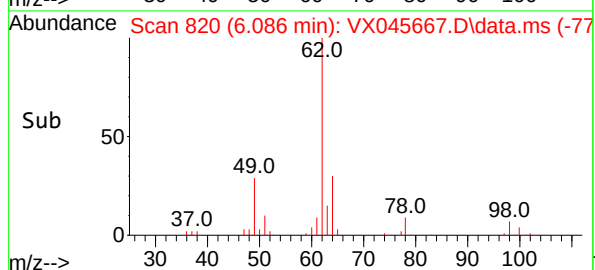
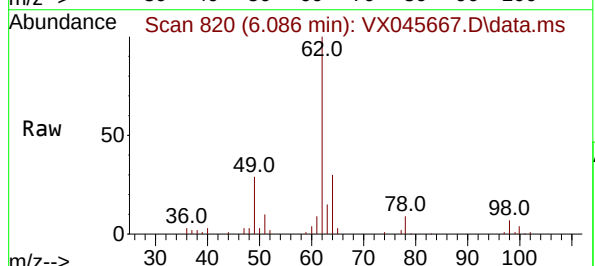
Acq: 09 Apr 2025 11:49

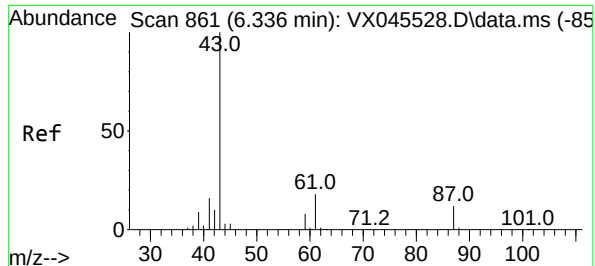
Tgt Ion: 62 Resp: 40264

Ion Ratio Lower Upper

62 100

98 7.3 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.285 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

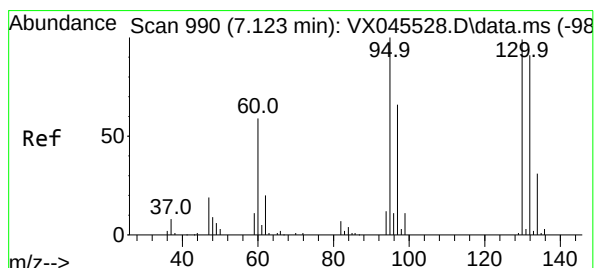
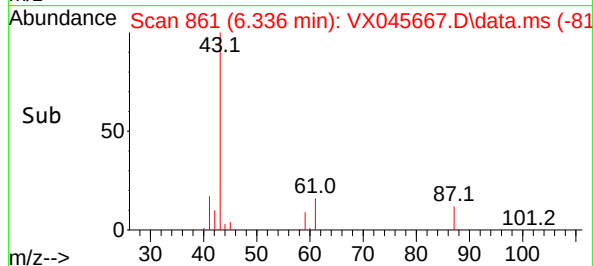
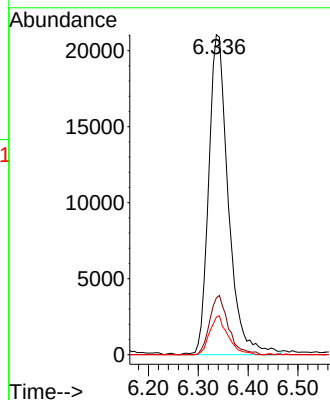
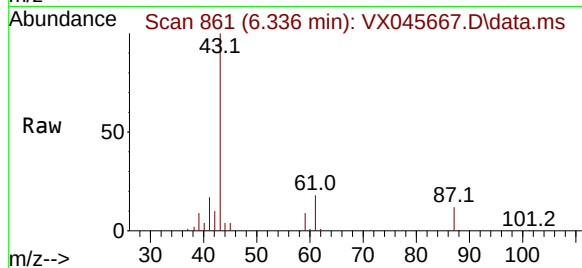
VX0409WBS01

Tgt Ion:	43	Resp:	5764
Ion Ratio	Lower	Upper	
43	100		
61	17.5	14.1	21.1
87	11.2	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#44

Trichloroethene

Concen: 19.194 ug/l

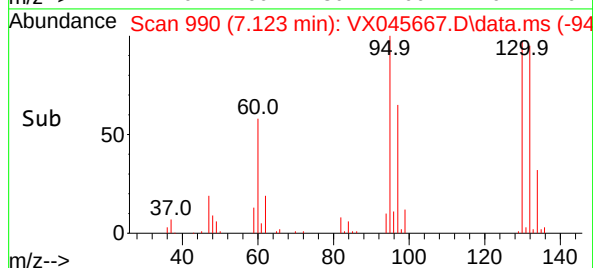
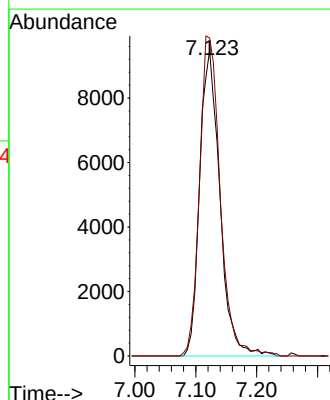
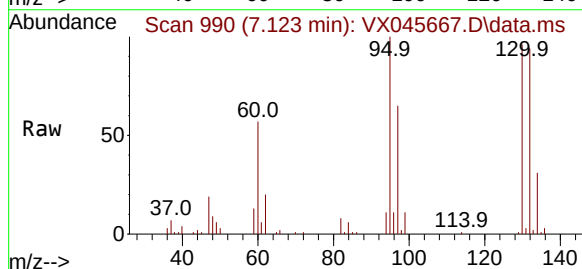
RT: 7.123 min Scan# 990

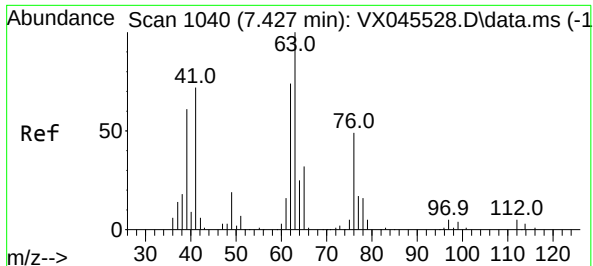
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	130	Resp:	21805
Ion Ratio	Lower	Upper	
130	100		
95	104.0	0.0	202.0





#45

1,2-Dichloropropane

Concen: 19.571 ug/l

RT: 7.428 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 63 Resp: 23339

Ion Ratio Lower Upper

63 100

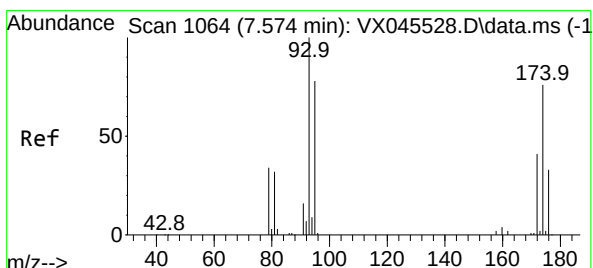
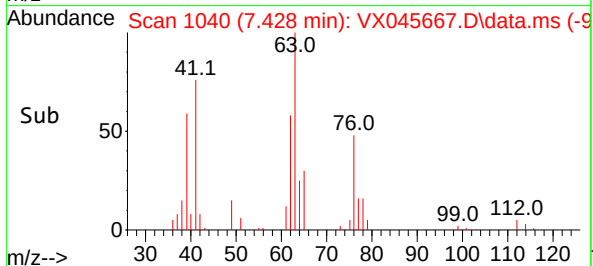
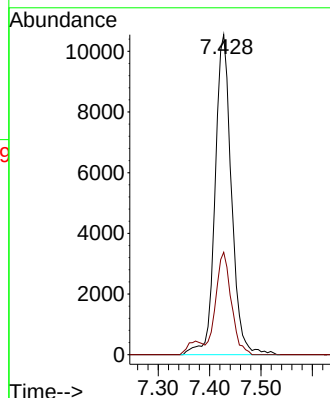
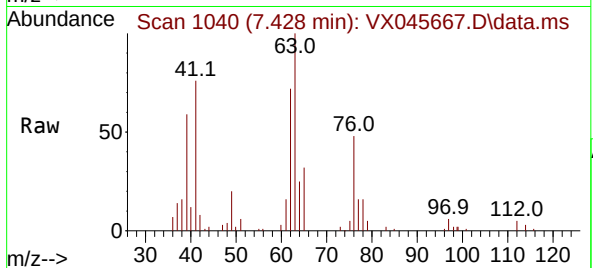
65 32.0 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#46

Dibromomethane

Concen: 19.446 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

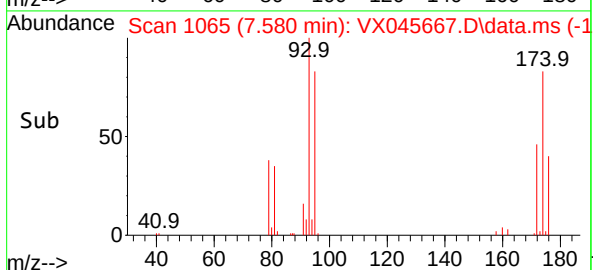
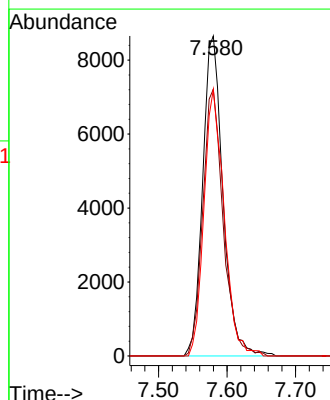
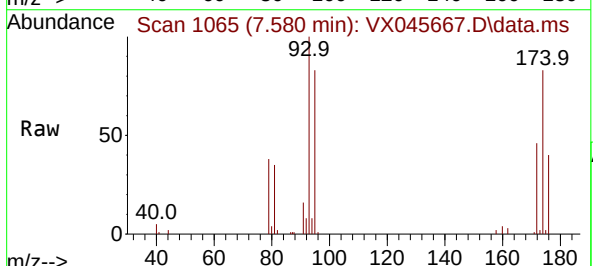
Tgt Ion: 93 Resp: 17802

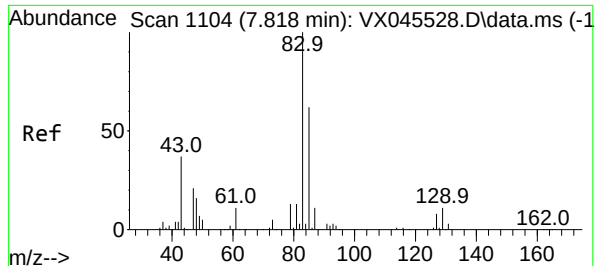
Ion Ratio Lower Upper

93 100

95 84.1 64.8 97.2

174 82.9 65.4 98.0





#47

Bromodichloromethane

Concen: 19.598 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

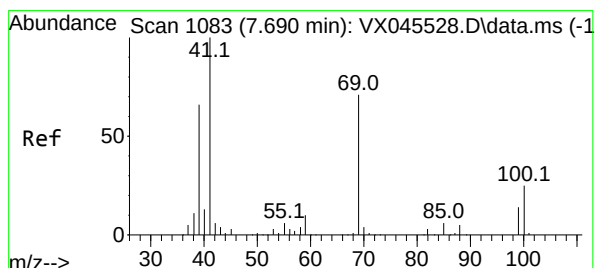
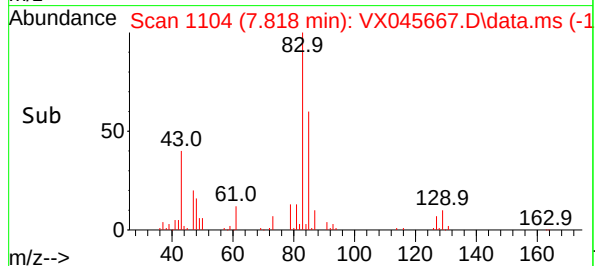
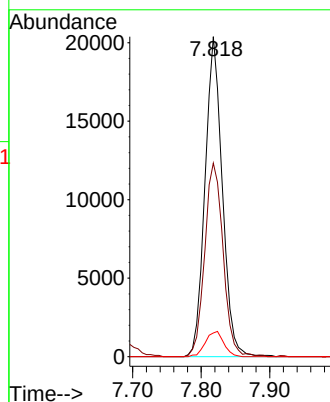
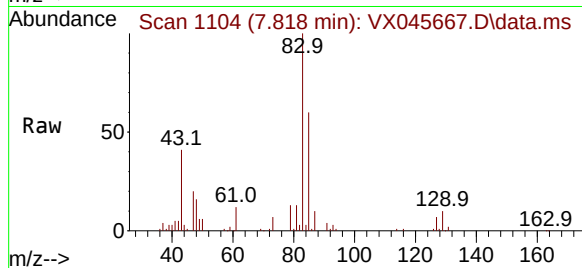
Tgt Ion:	83	Resp:	35828
Ion	Ratio	Lower	Upper
83	100		
85	60.5	49.7	74.5
127	7.4	6.1	9.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#48

Methyl methacrylate

Concen: 19.647 ug/l

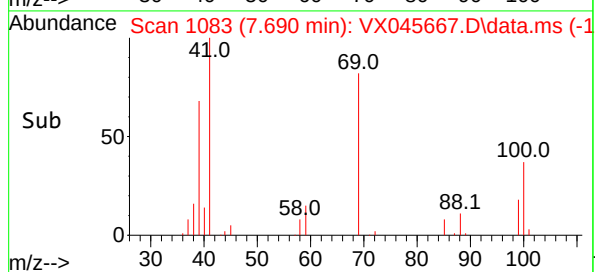
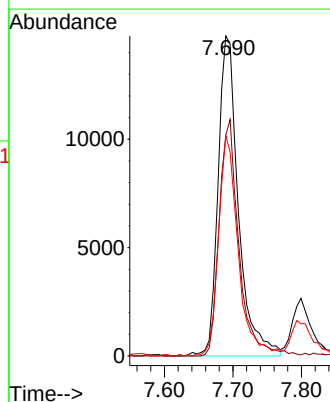
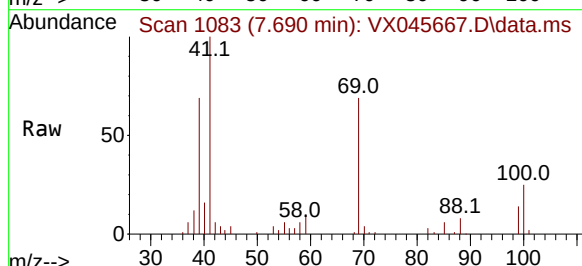
RT: 7.690 min Scan# 1083

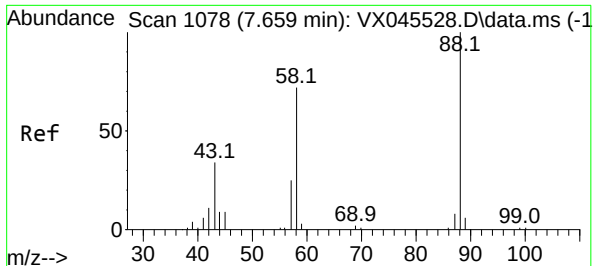
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	41	Resp:	30321
Ion	Ratio	Lower	Upper
41	100		
69	71.5	58.2	87.2
39	66.9	53.6	80.4





#49

1,4-Dioxane

Concen: 428.937 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

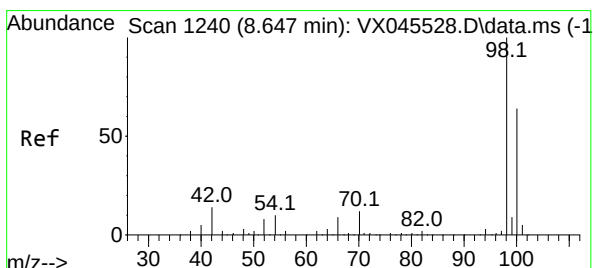
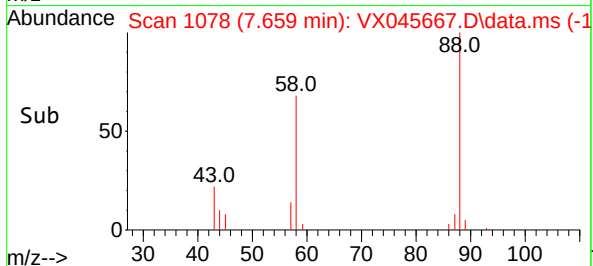
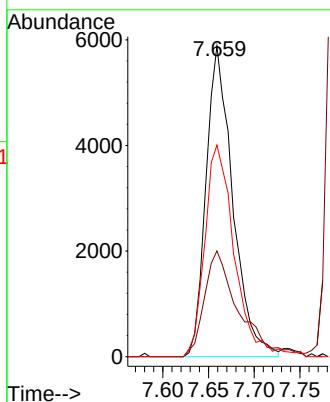
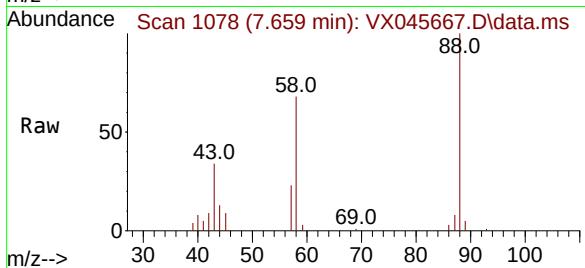
VX0409WBS01

Tgt Ion:	88	Resp:	1197
Ion	Ratio	Lower	Upper
88	100		
43	43.3	32.2	48.4
58	75.3	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#50

Toluene-d8

Concen: 53.060 ug/l

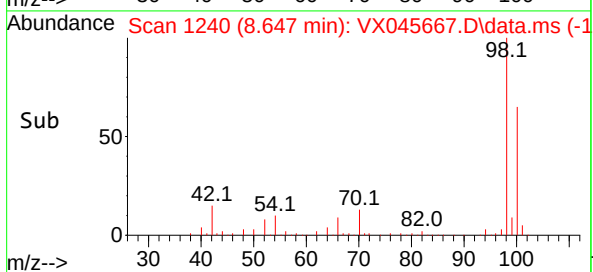
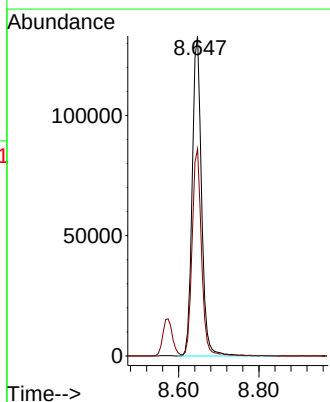
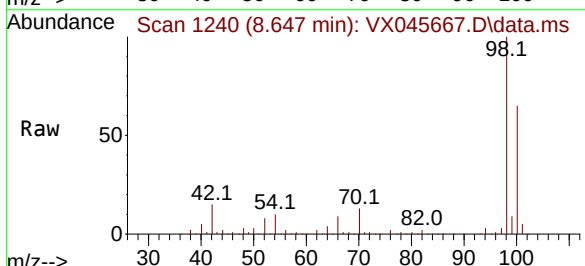
RT: 8.647 min Scan# 1240

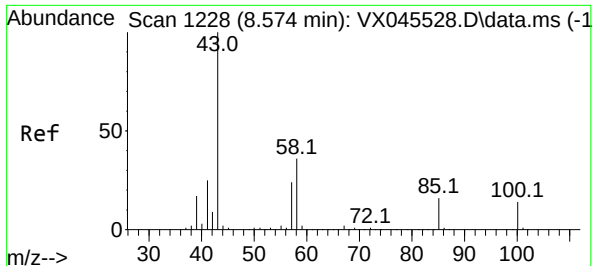
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	98	Resp:	214655
Ion	Ratio	Lower	Upper
98	100		
100	65.2	52.2	78.4





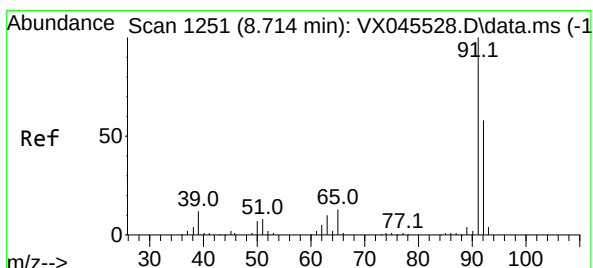
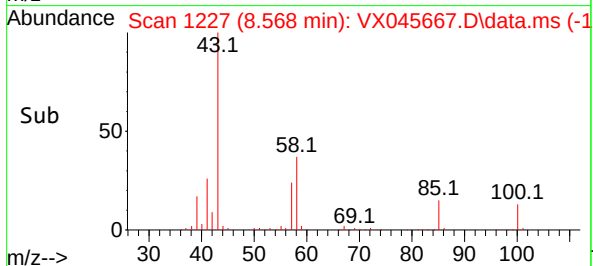
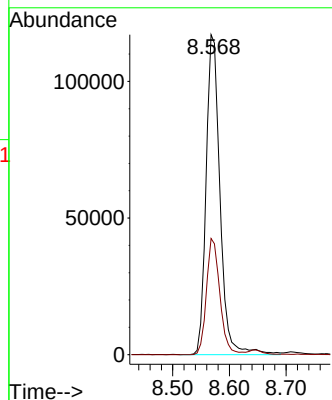
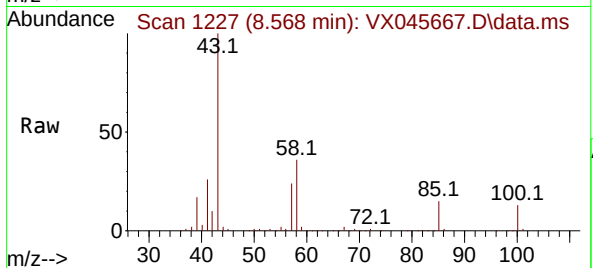
#51
4-Methyl-2-Pentanone
Concen: 100.967 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 43 Resp: 20006
Ion Ratio Lower Upper
43 100
58 35.1 28.5 42.7

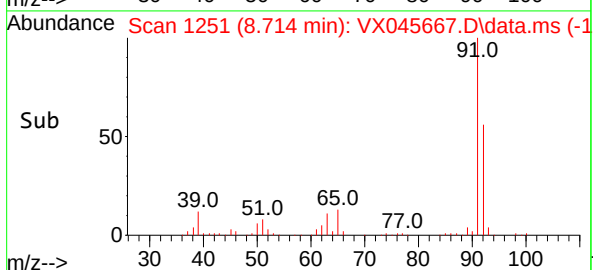
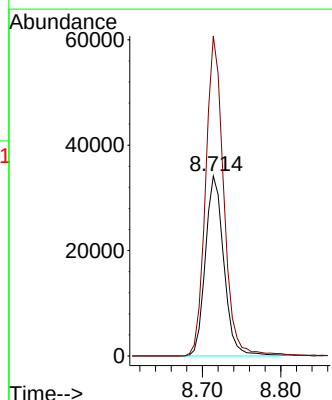
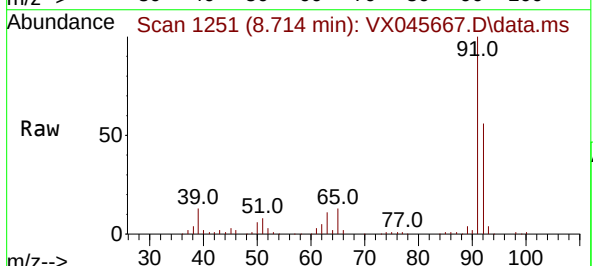
Manual Integrations
APPROVED

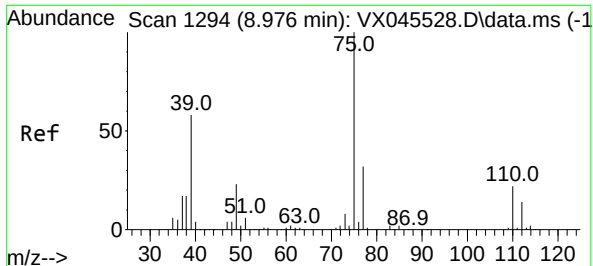
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#52
Toluene
Concen: 19.333 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 92 Resp: 55913
Ion Ratio Lower Upper
92 100
91 174.8 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 18.684 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 75 Resp: 30200

Ion Ratio Lower Upper

75 100

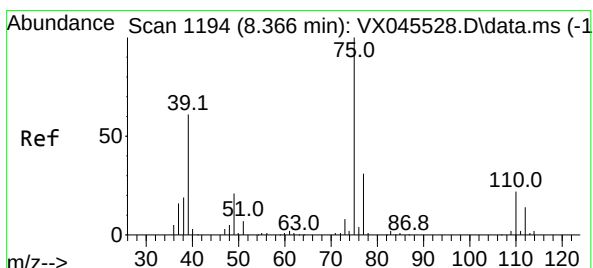
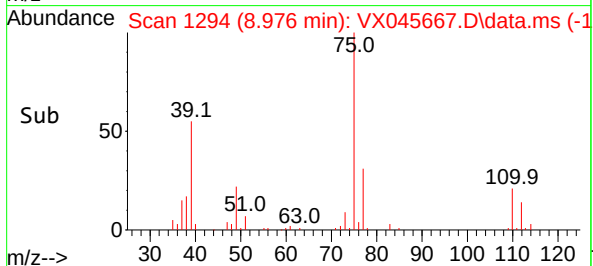
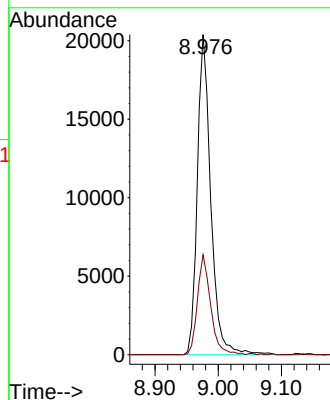
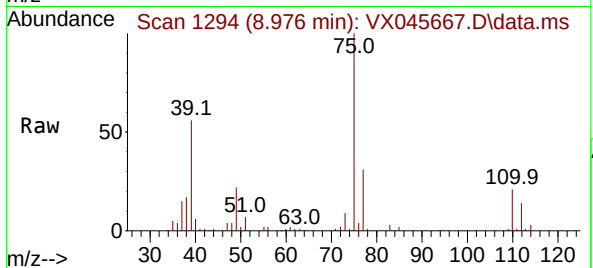
77 31.2 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#54

cis-1,3-Dichloropropene

Concen: 20.333 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

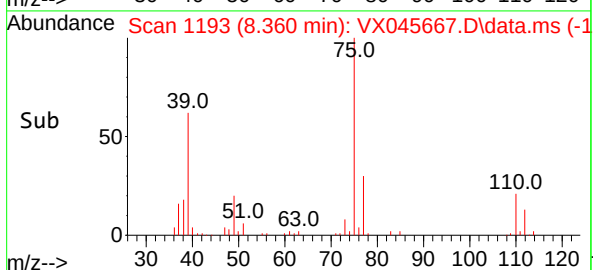
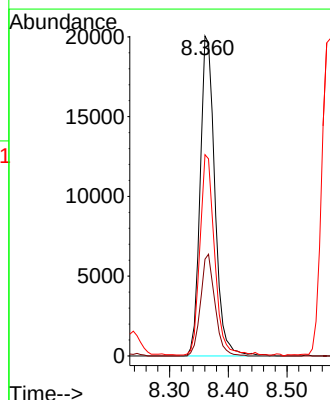
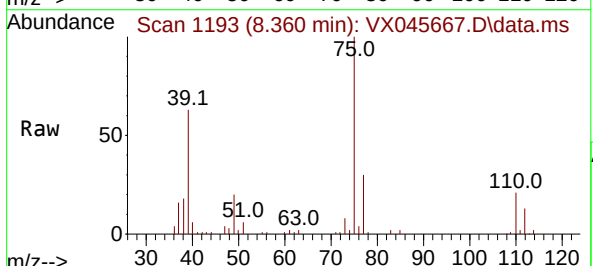
Tgt Ion: 75 Resp: 34931

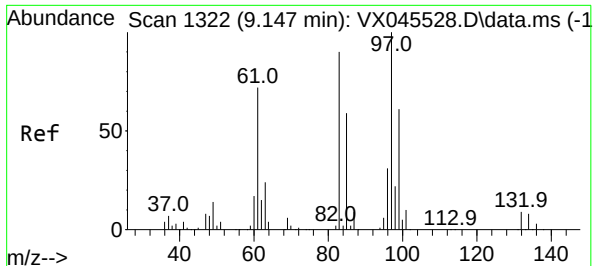
Ion Ratio Lower Upper

75 100

77 30.2 24.6 36.8

39 62.6 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 19.926 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 97 Resp: 22964

Ion Ratio Lower Upper

97 100

83 92.0 71.8 107.8

85 57.9 47.0 70.6

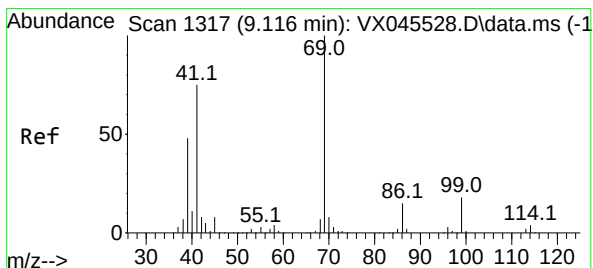
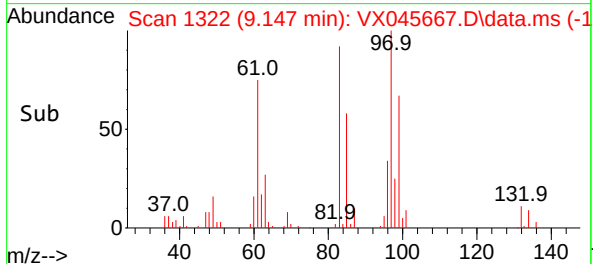
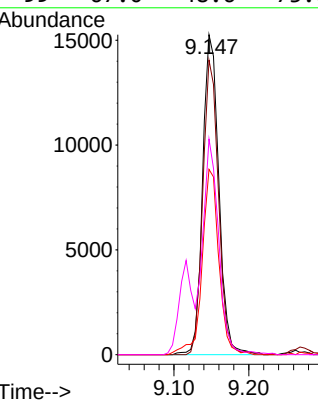
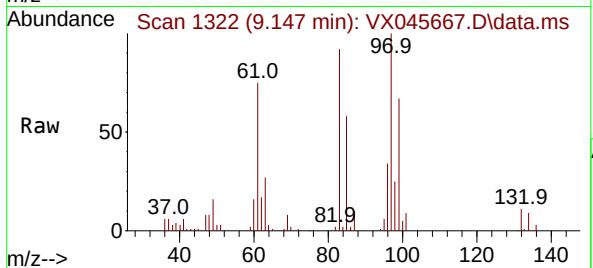
99 67.0 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#56

Ethyl methacrylate

Concen: 19.790 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

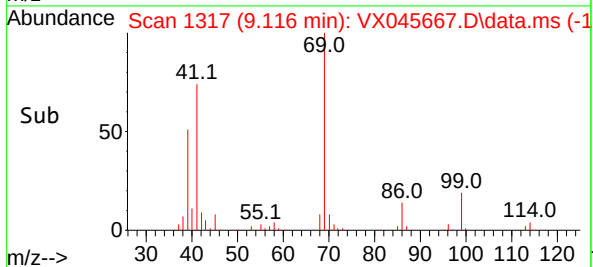
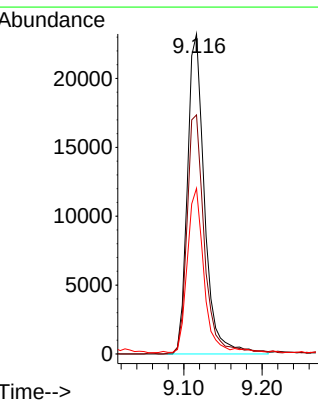
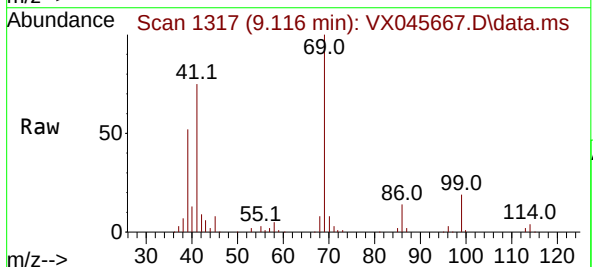
Tgt Ion: 69 Resp: 35297

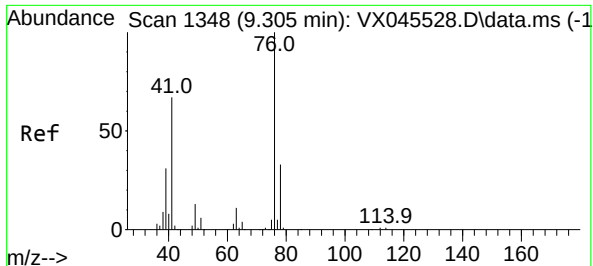
Ion Ratio Lower Upper

69 100

41 77.1 61.3 91.9

39 50.6 40.2 60.2





#57

1,3-Dichloropropane

Concen: 19.736 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 76 Resp: 3960

Ion Ratio Lower Upper

76 100

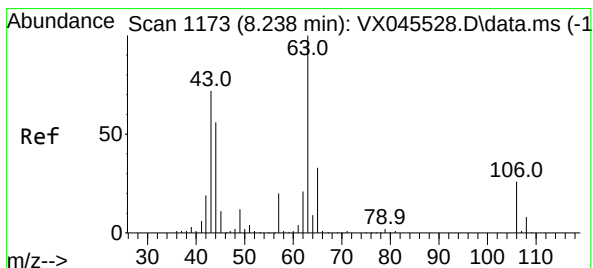
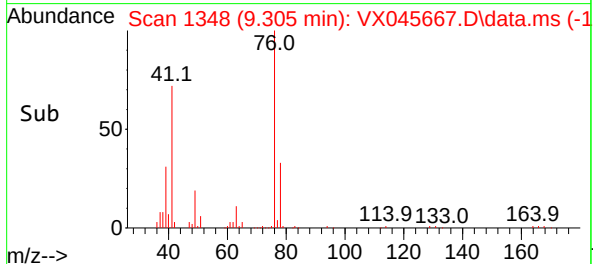
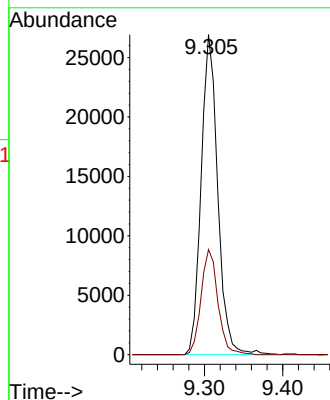
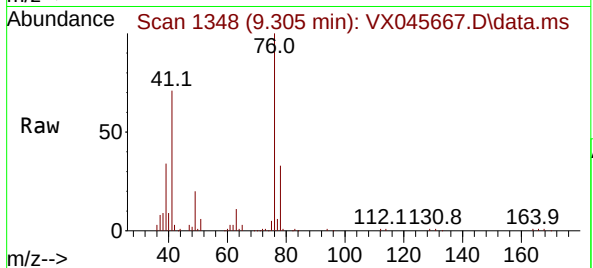
78 33.4 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#58

2-Chloroethyl Vinyl ether

Concen: 98.189 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045667.D

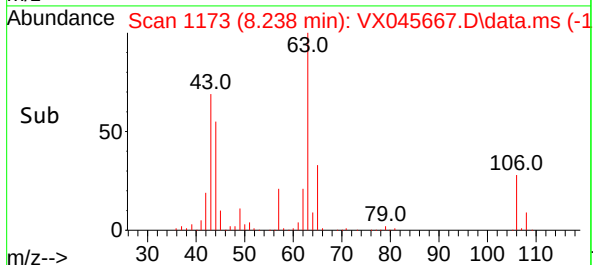
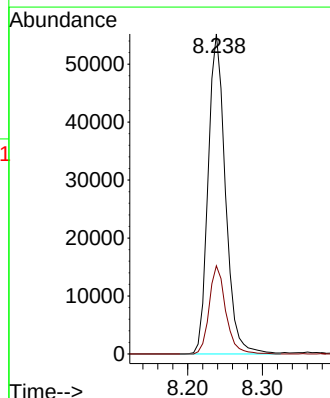
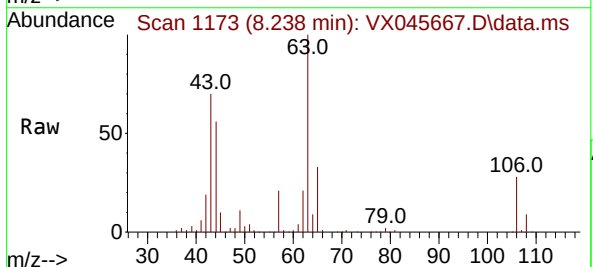
Acq: 09 Apr 2025 11:49

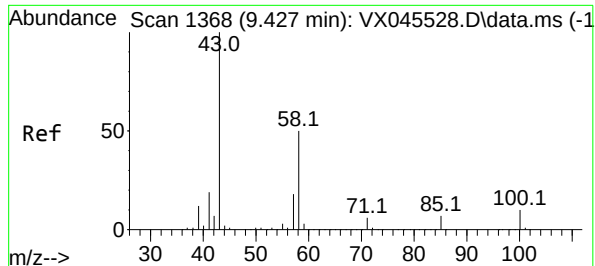
Tgt Ion: 63 Resp: 88591

Ion Ratio Lower Upper

63 100

106 26.3 21.0 31.6





#59

2-Hexanone

Concen: 100.919 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 43 Resp: 148084

Ion Ratio Lower Upper

43 100

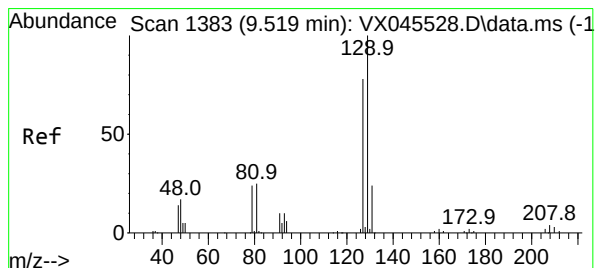
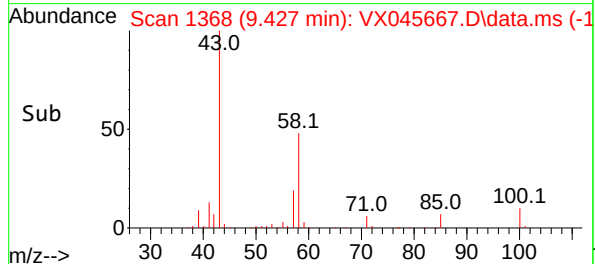
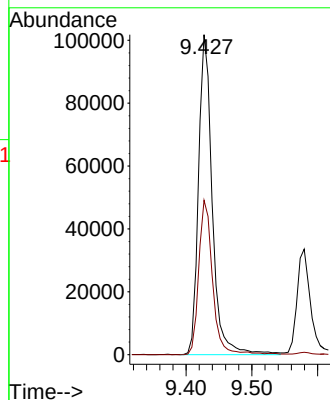
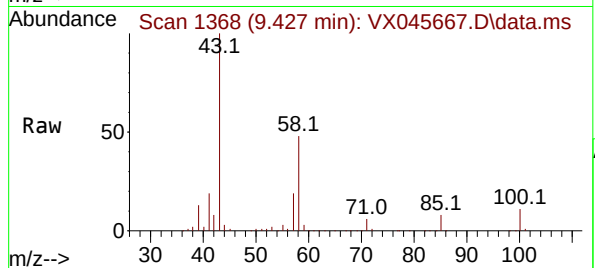
58 48.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#60

Dibromochloromethane

Concen: 19.763 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045667.D

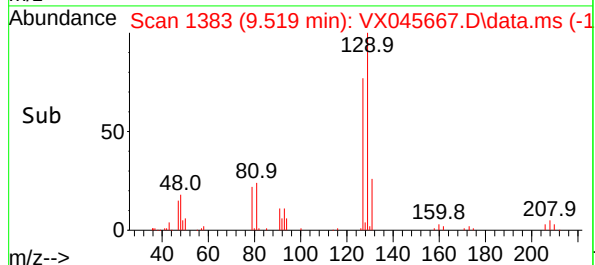
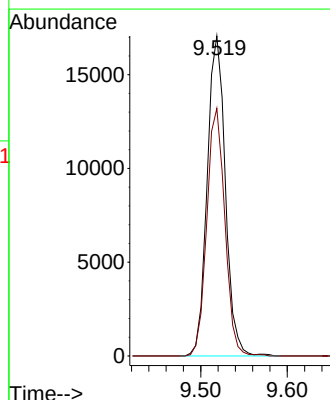
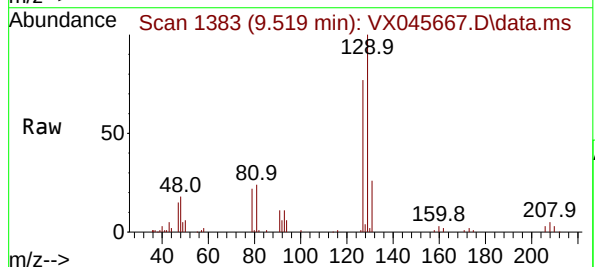
Acq: 09 Apr 2025 11:49

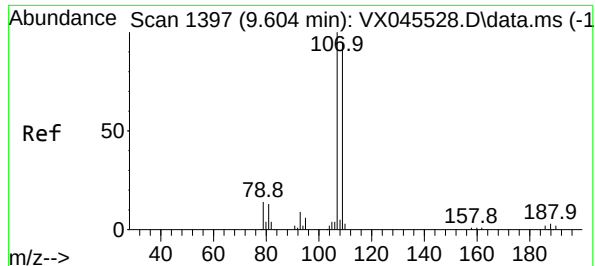
Tgt Ion:129 Resp: 24830

Ion Ratio Lower Upper

129 100

127 77.0 39.4 118.2





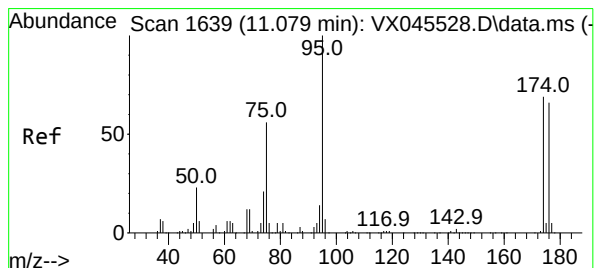
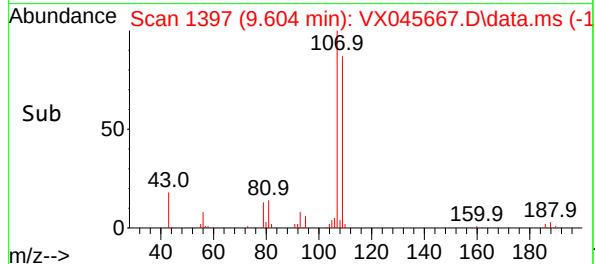
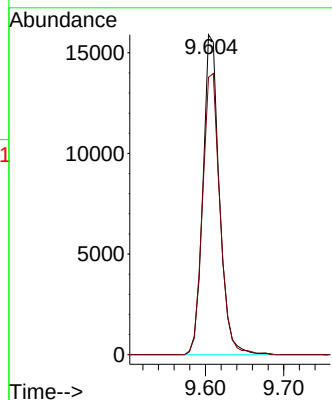
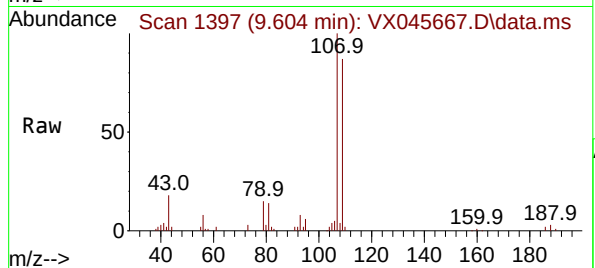
#61
1,2-Dibromoethane
Concen: 19.837 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:107 Resp: 2314
Ion Ratio Lower Upper
107 100
109 93.4 75.7 113.5

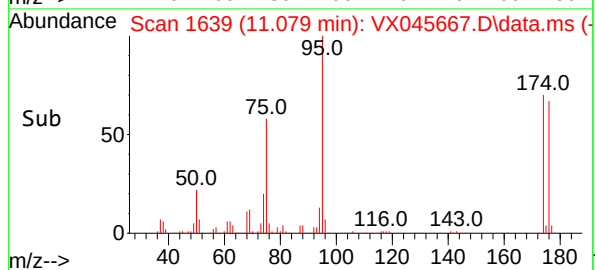
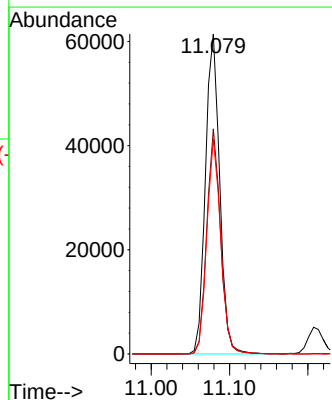
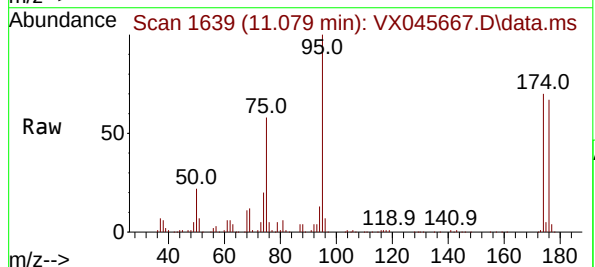
Manual Integrations
APPROVED

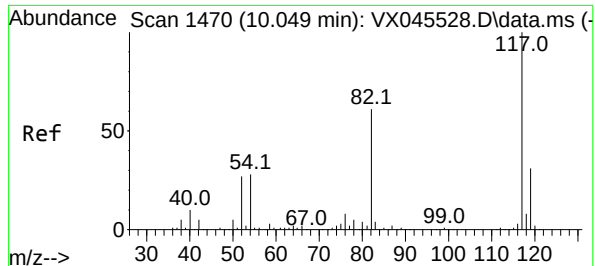
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#62
4-Bromofluorobenzene
Concen: 52.574 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 95 Resp: 77473
Ion Ratio Lower Upper
95 100
174 68.2 0.0 135.8
176 65.6 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

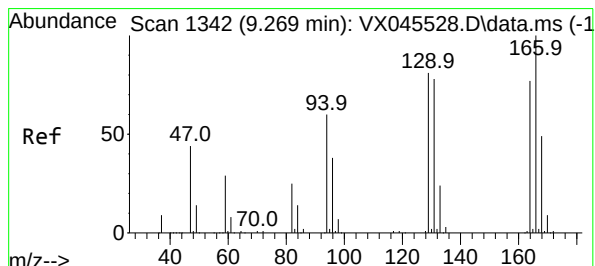
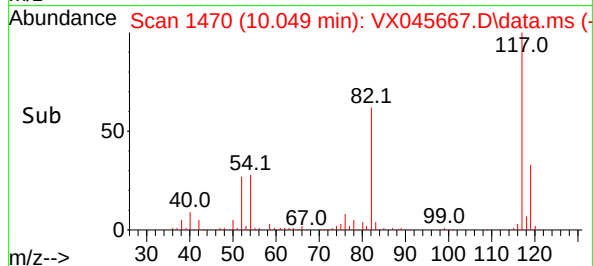
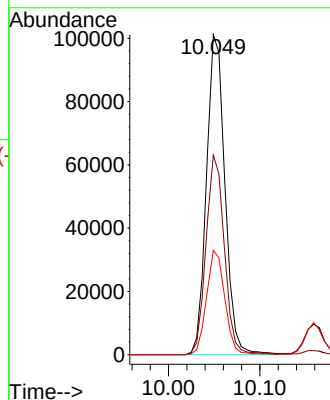
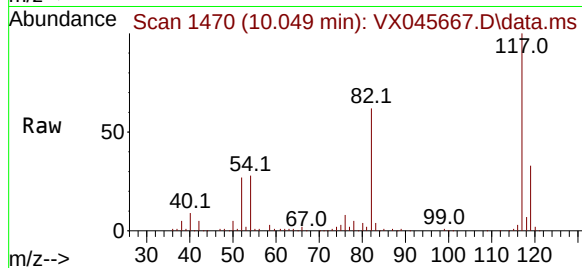
Tgt Ion:117	Resp: 14139
Ion Ratio	Lower Upper
117 100	
82 62.4	49.2 73.8
119 32.6	25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#64

Tetrachloroethene

Concen: 20.935 ug/l

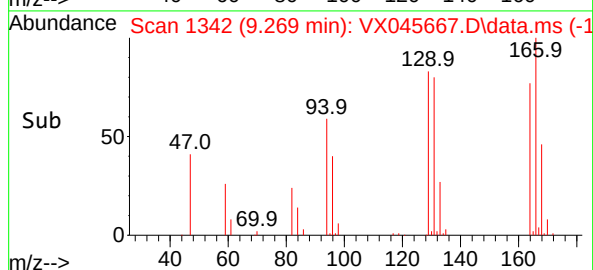
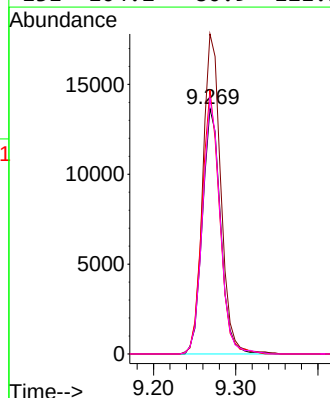
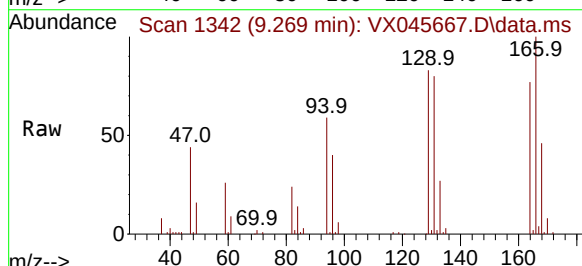
RT: 9.269 min Scan# 1342

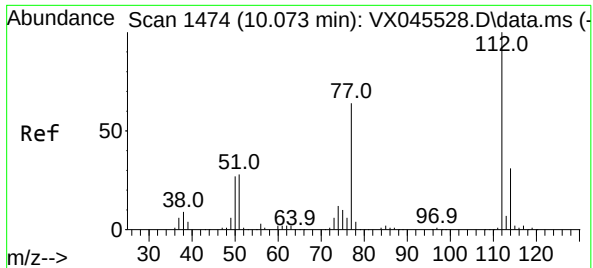
Delta R.T. -0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:164	Resp: 20900
Ion Ratio	Lower Upper
164 100	
166 130.4	103.8 155.8
129 107.6	84.3 126.5
131 104.2	80.9 121.3





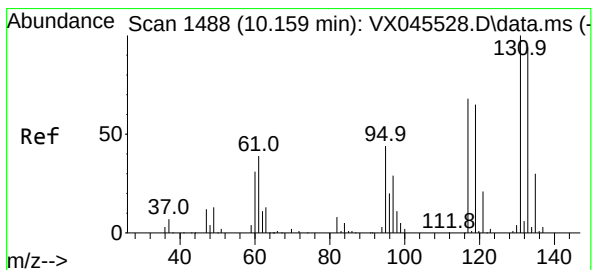
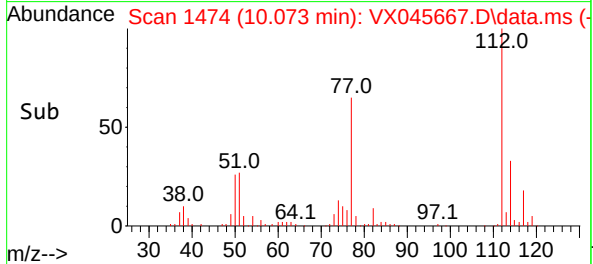
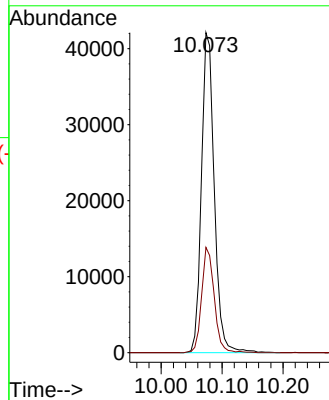
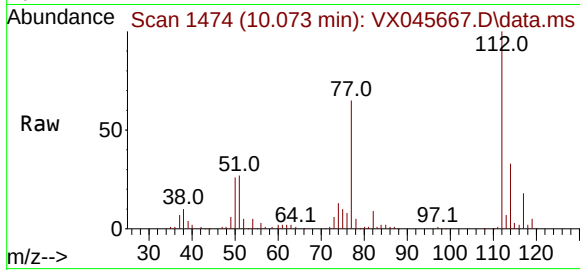
#65
Chlorobenzene
Concen: 20.348 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:112 Resp: 61480
Ion Ratio Lower Upper
112 100
114 32.9 24.7 37.1

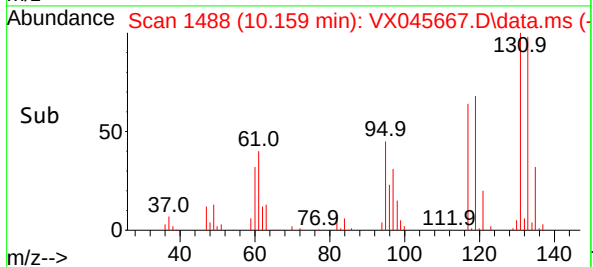
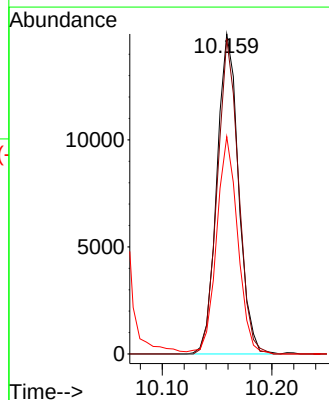
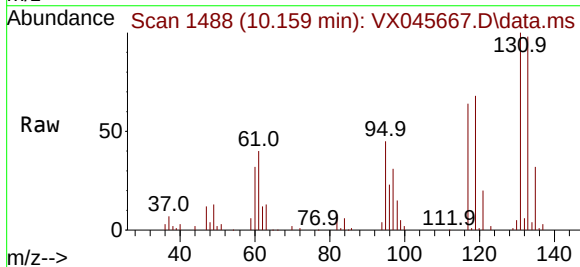
Manual Integrations
APPROVED

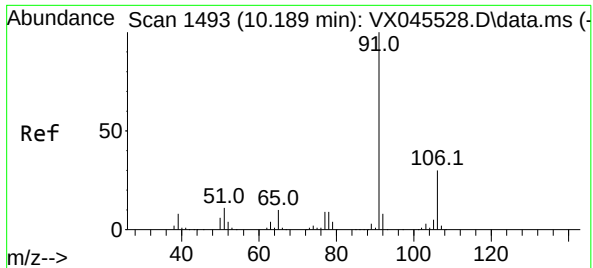
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 19.568 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion:131 Resp: 20527
Ion Ratio Lower Upper
131 100
133 96.1 47.5 142.5
119 66.3 32.9 98.6





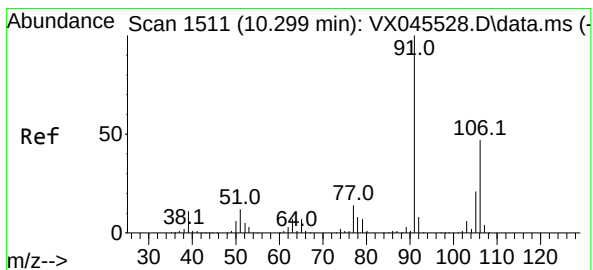
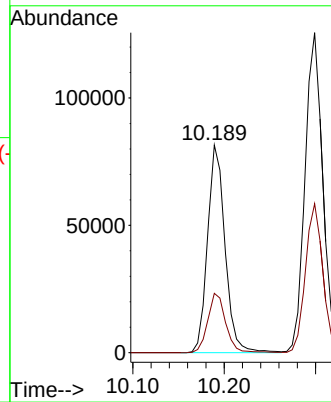
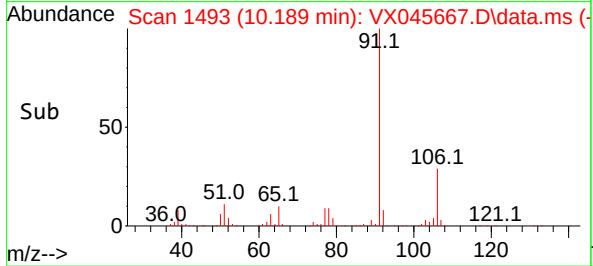
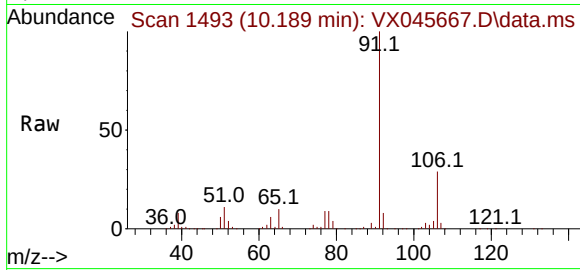
#67
Ethyl Benzene
Concen: 20.024 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 91 Resp: 108358
Ion Ratio Lower Upper
91 100
106 28.6 23.7 35.5

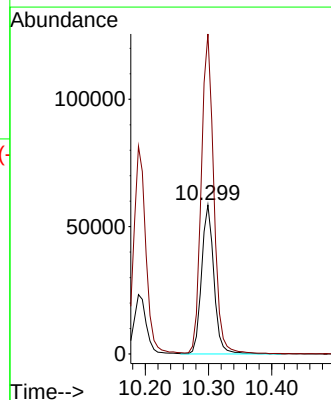
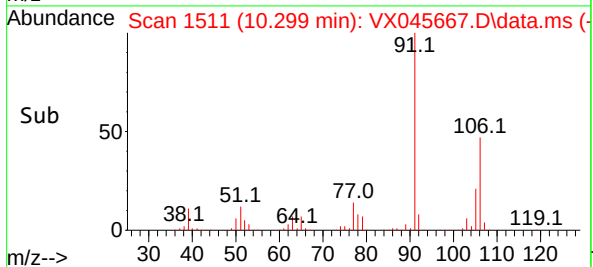
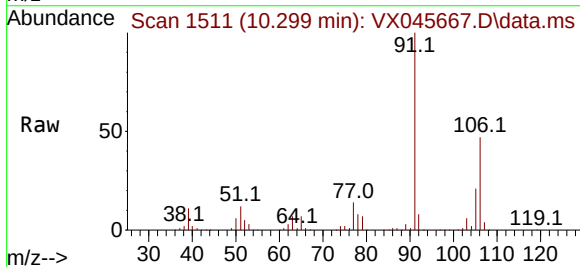
Manual Integrations
APPROVED

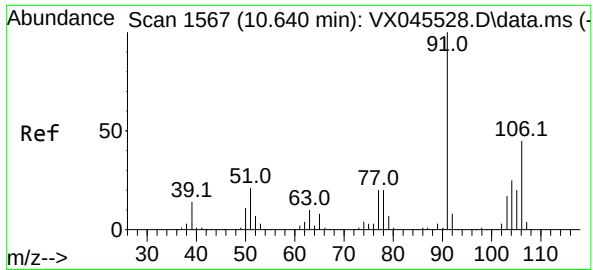
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
m/p-Xylenes
Concen: 40.521 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion:106 Resp: 79752
Ion Ratio Lower Upper
106 100
91 217.6 172.6 258.8





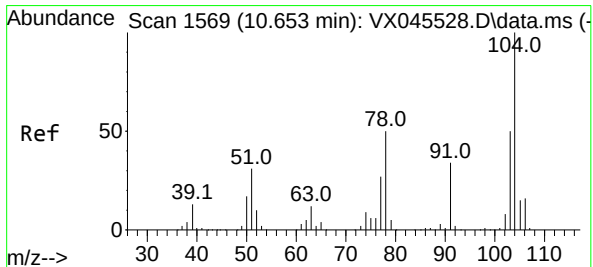
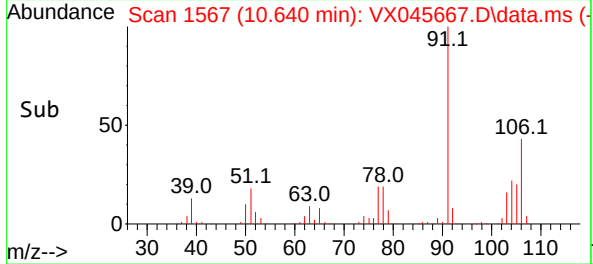
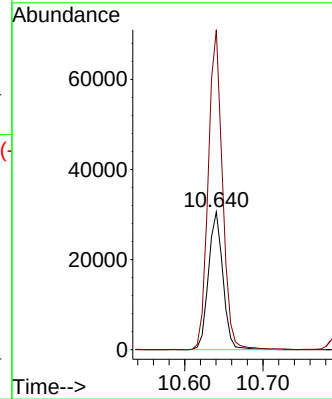
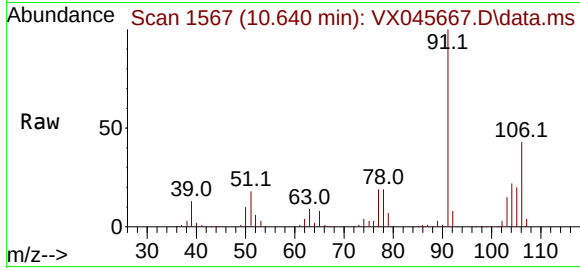
#69
o-Xylene
Concen: 20.186 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:106 Resp: 3913
Ion Ratio Lower Upper
106 100
91 229.1 113.6 340.6

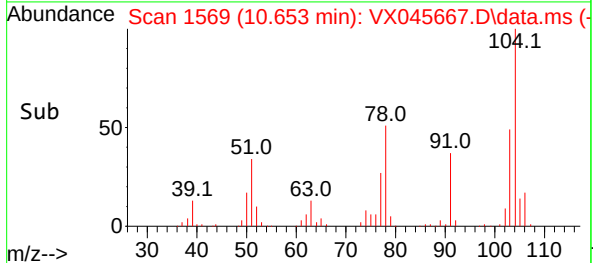
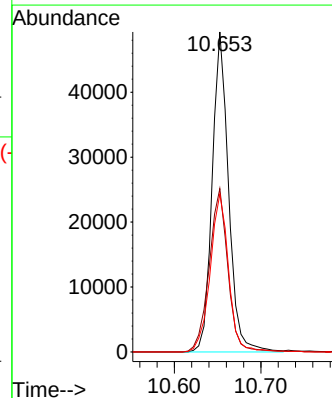
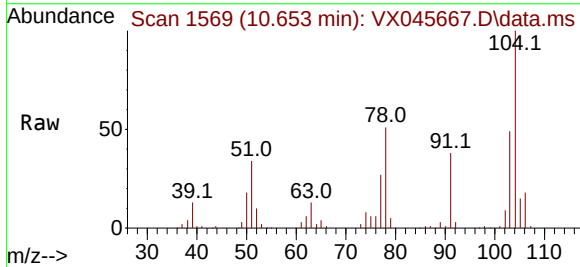
Manual Integrations
APPROVED

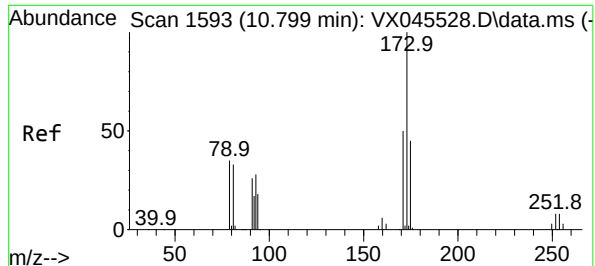
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#70
Styrene
Concen: 20.258 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

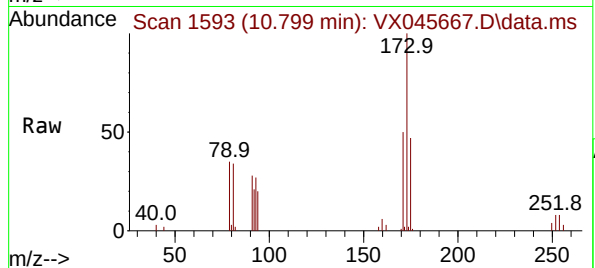
Tgt Ion:104 Resp: 64826
Ion Ratio Lower Upper
104 100
78 58.3 45.4 68.2
103 55.6 43.8 65.8





#71
Bromoform
Concen: 19.502 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

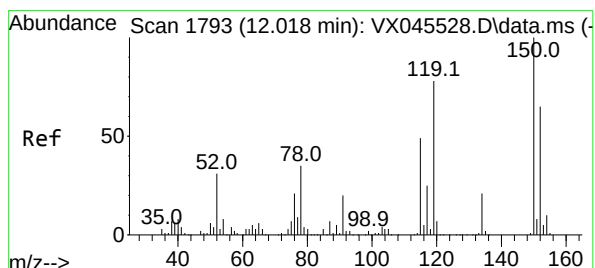
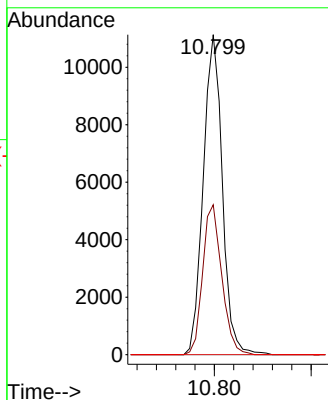
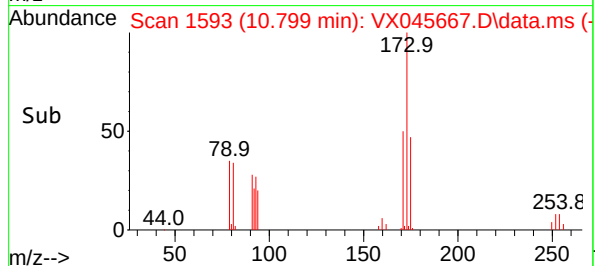
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01



Tgt Ion:173 Resp: 1527
Ion Ratio Lower Upper
173 100
175 46.9 23.4 70.2
254 0.0 0.0 0.0

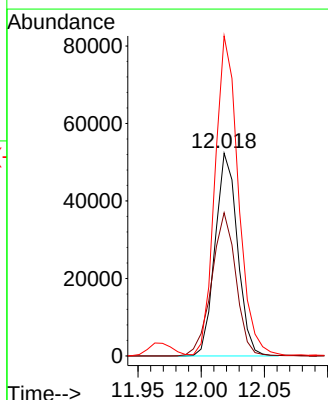
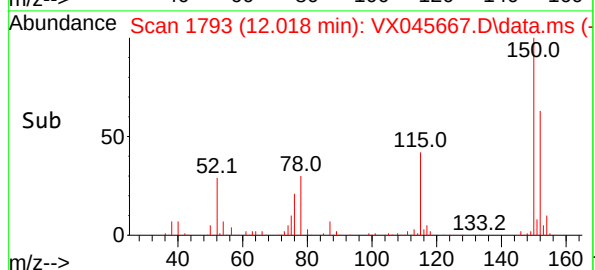
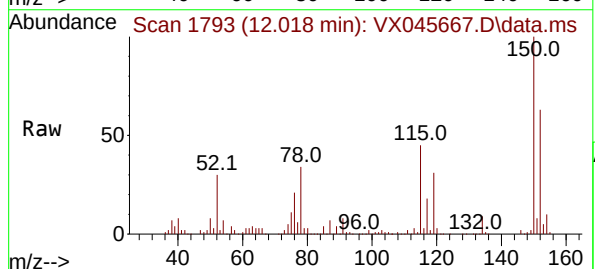
Manual Integrations
APPROVED

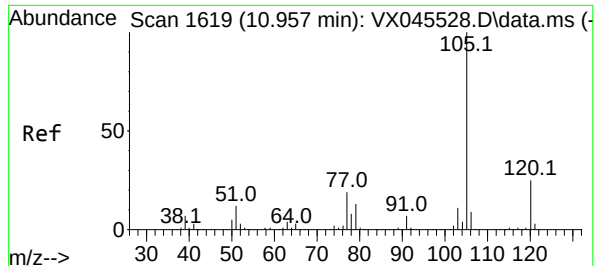
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion:152 Resp: 64175
Ion Ratio Lower Upper
152 100
115 76.7 46.9 140.7
150 164.3 0.0 349.4





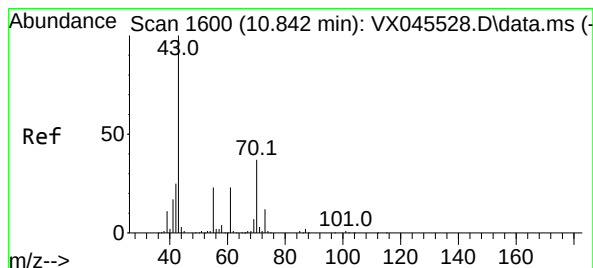
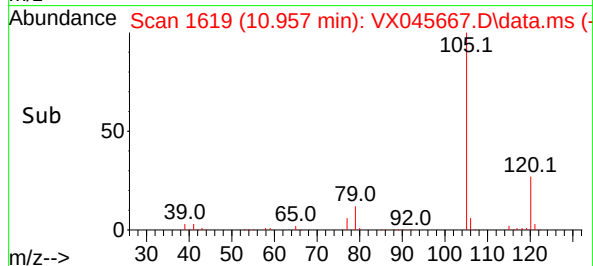
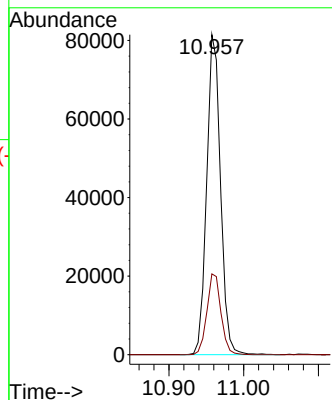
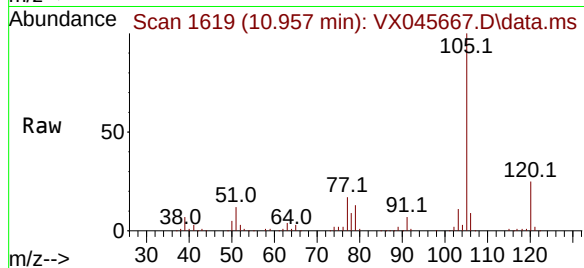
#73
Isopropylbenzene
Concen: 20.330 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:105 Resp: 104500
Ion Ratio Lower Upper
105 100
120 25.7 12.7 38.0

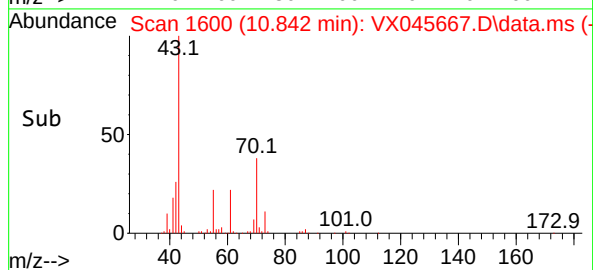
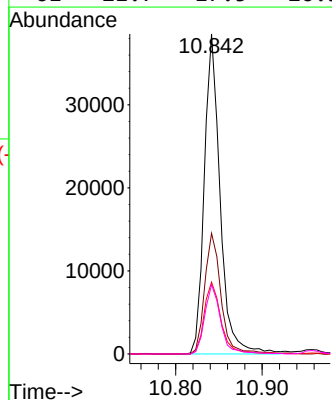
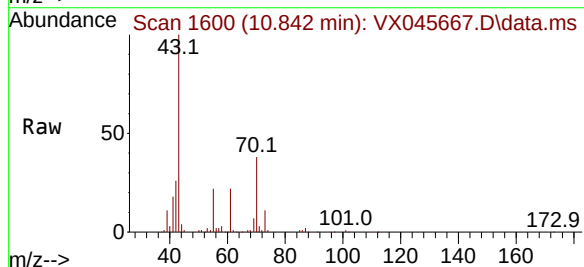
Manual Integrations
APPROVED

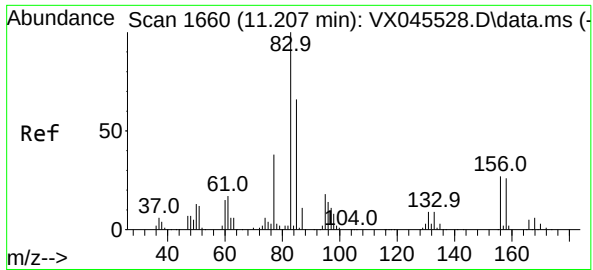
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#74
N-ethyl acetate
Concen: 19.937 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 43 Resp: 49023
Ion Ratio Lower Upper
43 100
70 38.9 30.1 45.1
55 23.9 18.3 27.5
61 21.7 17.5 26.3





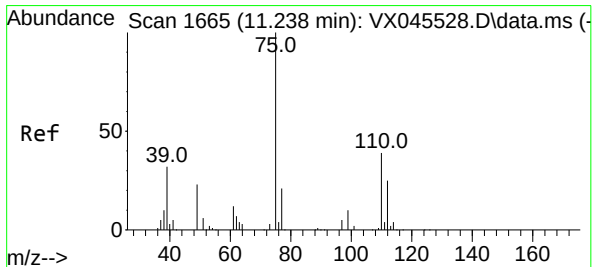
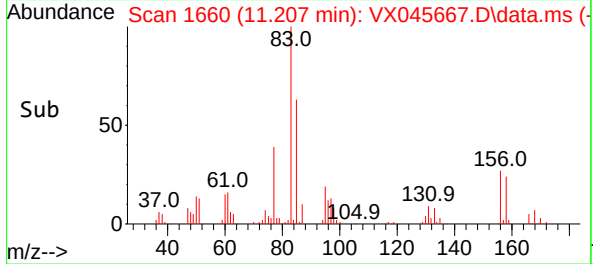
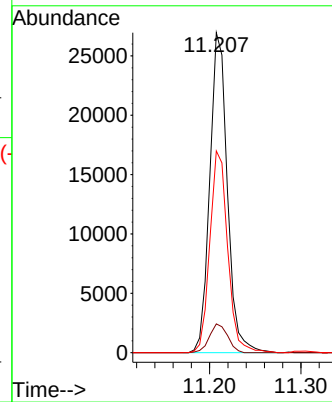
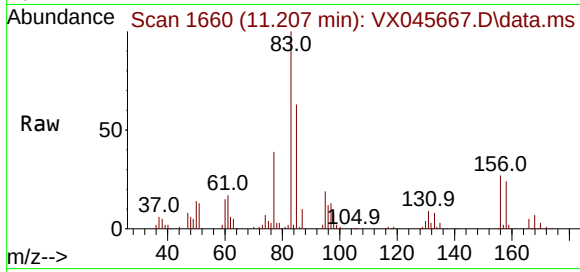
#75
1,1,2,2-Tetrachloroethane
Concen: 19.910 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 83 Resp: 35954
Ion Ratio Lower Upper
83 100
131 9.3 4.7 14.1
85 64.0 32.4 97.2

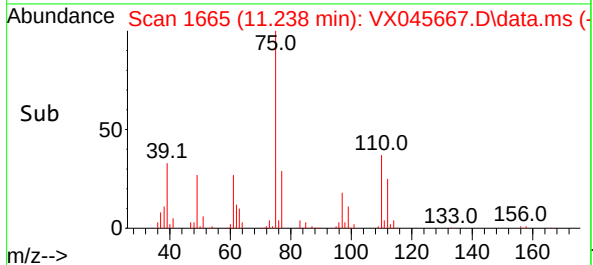
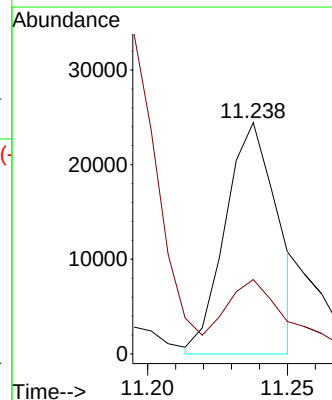
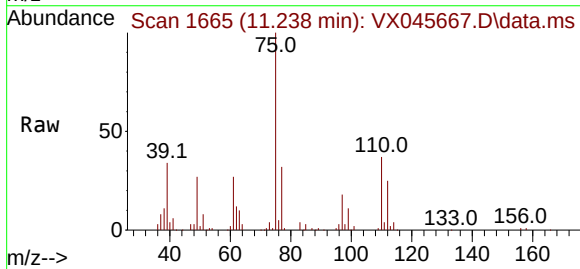
Manual Integrations
APPROVED

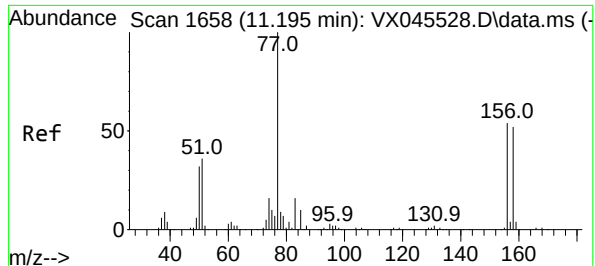
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#76
1,2,3-Trichloropropane
Concen: 20.180 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 75 Resp: 31590
Ion Ratio Lower Upper
75 100
77 39.7 20.0 59.9





#77

Bromobenzene

Concen: 20.325 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

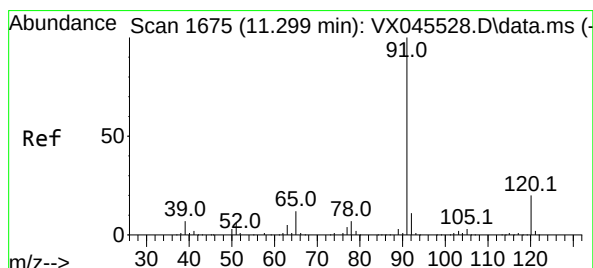
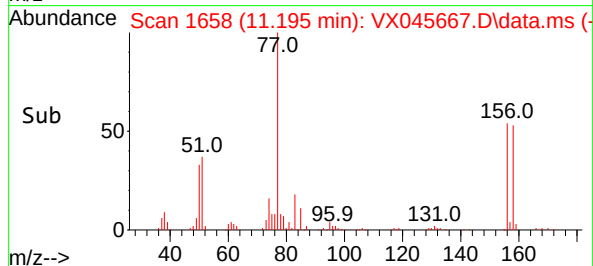
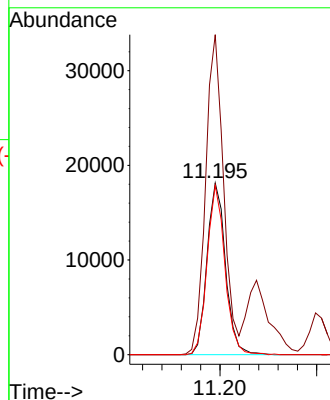
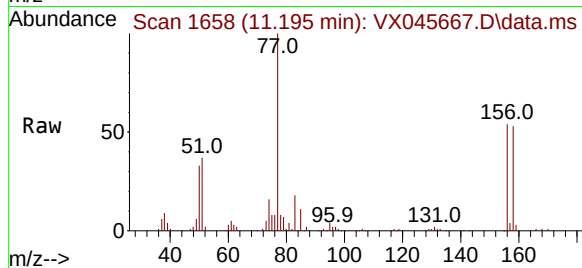
VX0409WBS01

Tgt Ion	Ratio	Lower	Upper
156	100		
77	181.5	92.6	277.8
158	95.2	48.1	144.4

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#78

n-propylbenzene

Concen: 20.329 ug/l

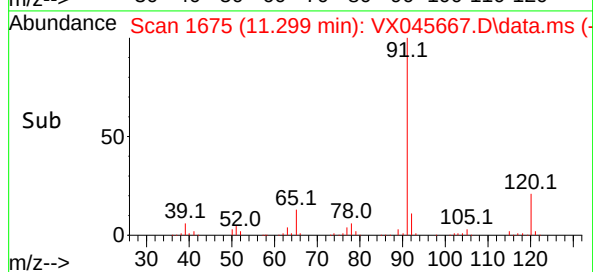
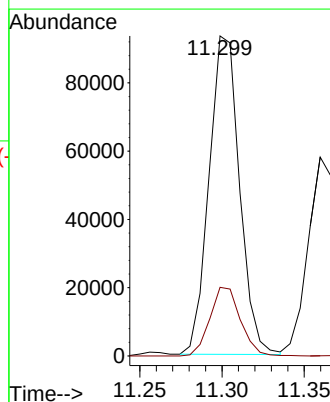
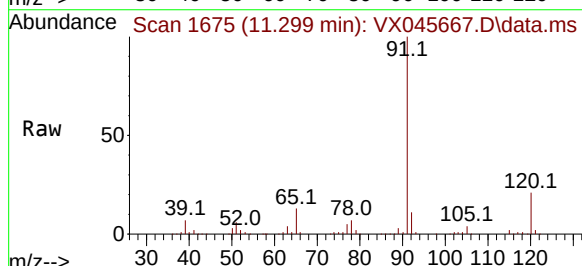
RT: 11.299 min Scan# 1675

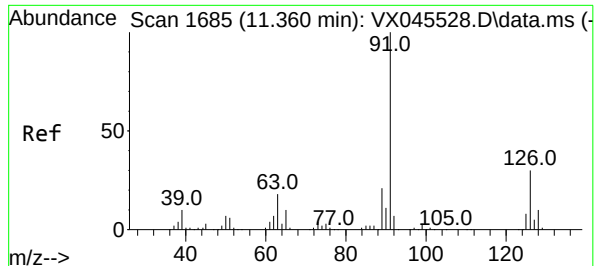
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.3





#79

2-Chlorotoluene

Concen: 19.813 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

Tgt Ion: 91 Resp: 74998

Ion Ratio Lower Upper

91 100

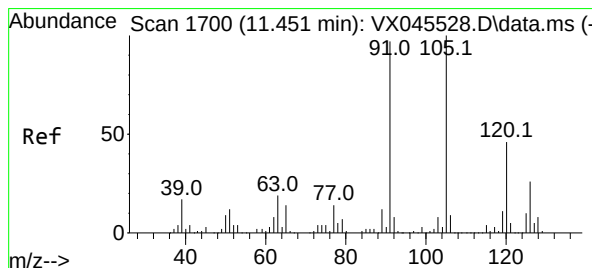
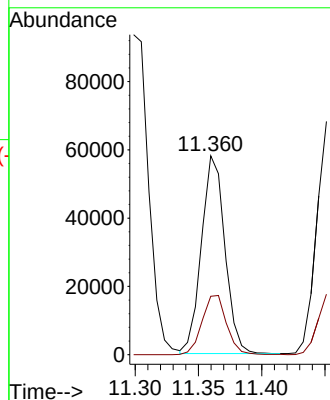
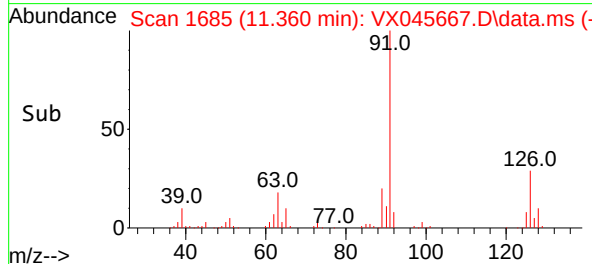
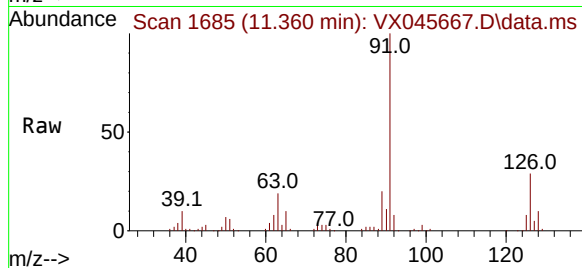
126 31.4 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.715 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045667.D

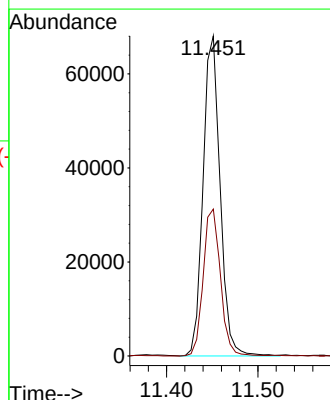
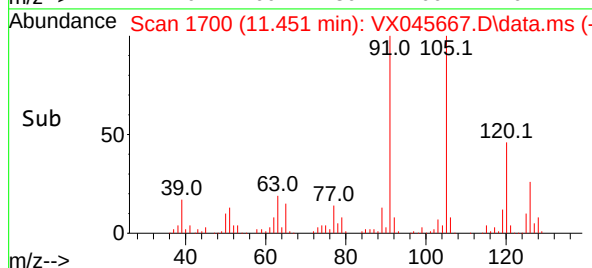
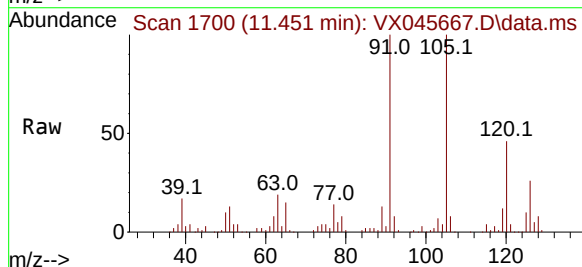
Acq: 09 Apr 2025 11:49

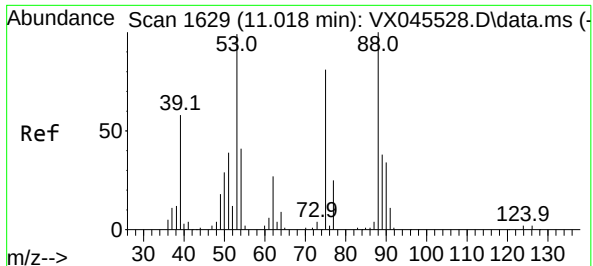
Tgt Ion:105 Resp: 88053

Ion Ratio Lower Upper

105 100

120 46.4 23.0 69.0





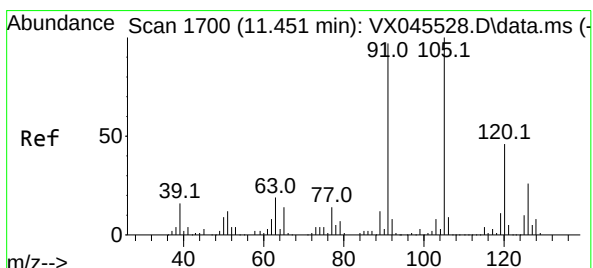
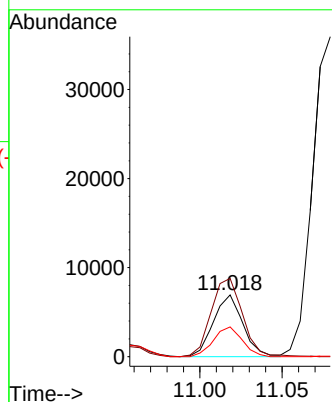
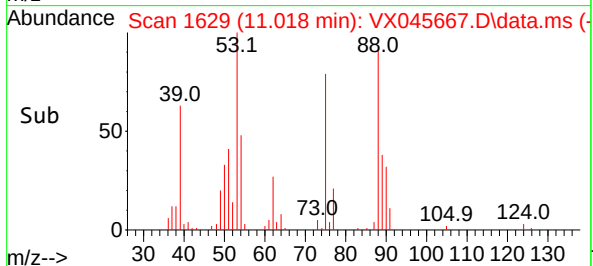
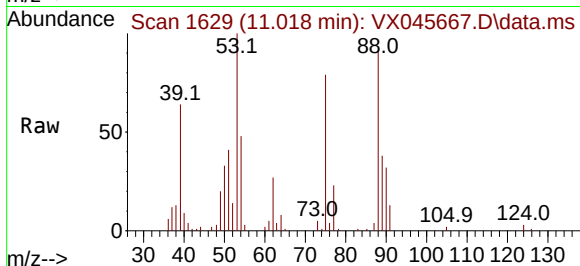
#81
trans-1,4-Dichloro-2-butene
Concen: 18.806 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion: 75 Resp: 8674
Ion Ratio Lower Upper
75 100
53 134.5 101.8 152.6
89 46.8 37.2 55.8

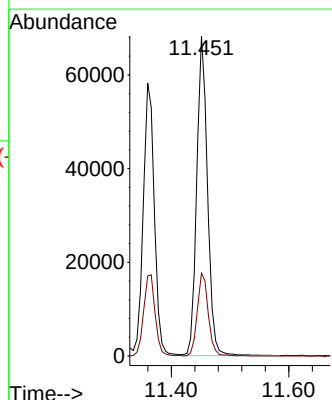
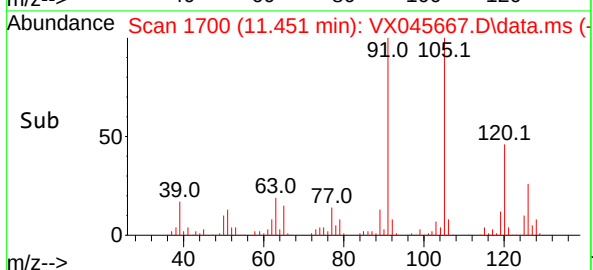
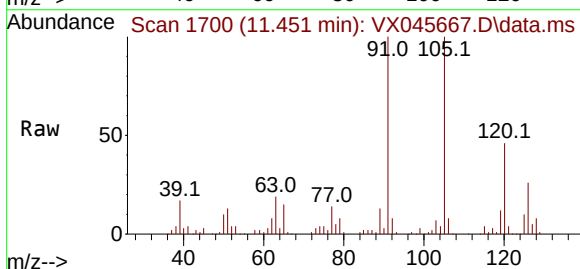
Manual Integrations
APPROVED

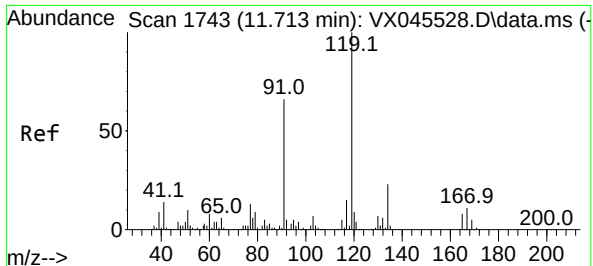
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#82
4-Chlorotoluene
Concen: 20.575 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion: 91 Resp: 86832
Ion Ratio Lower Upper
91 100
126 26.4 13.3 39.9





#83

tert-Butylbenzene

Concen: 20.152 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

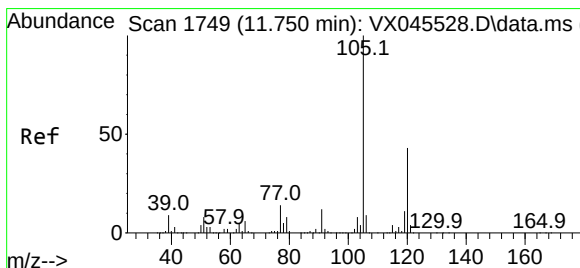
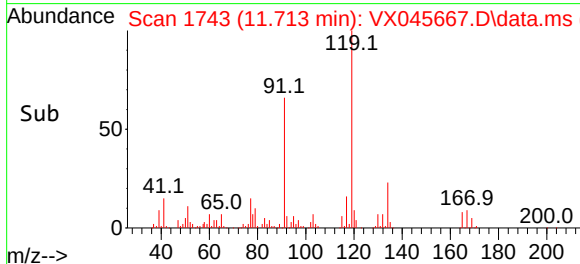
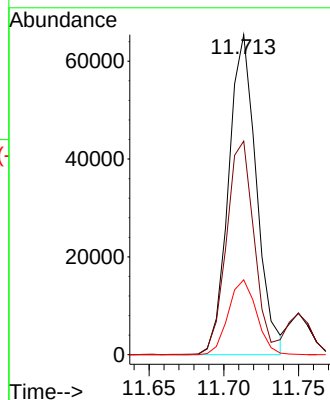
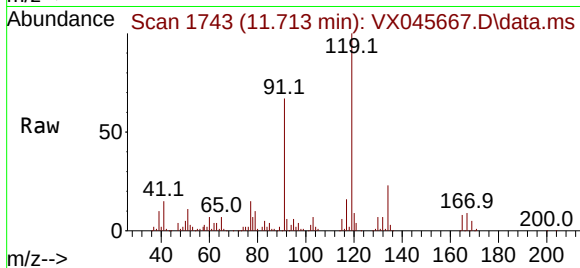
VX0409WBS01

Tgt Ion:	119	Resp:	8480
Ion Ratio	Lower	Upper	
119	100		
91	65.9	32.4	97.2
134	23.7	11.5	34.5

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#84

1,2,4-Trimethylbenzene

Concen: 20.195 ug/l

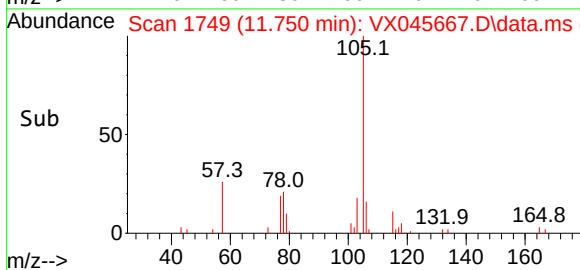
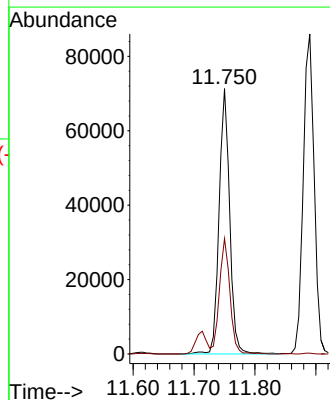
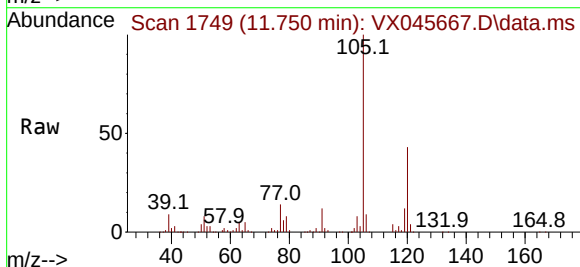
RT: 11.750 min Scan# 1749

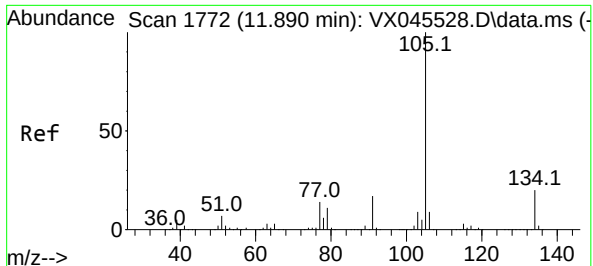
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	105	Resp:	86160
Ion Ratio	Lower	Upper	
105	100		
120	43.3	21.4	64.3





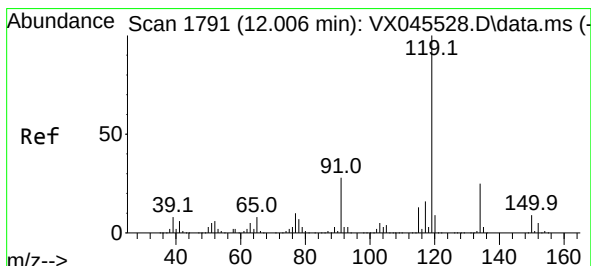
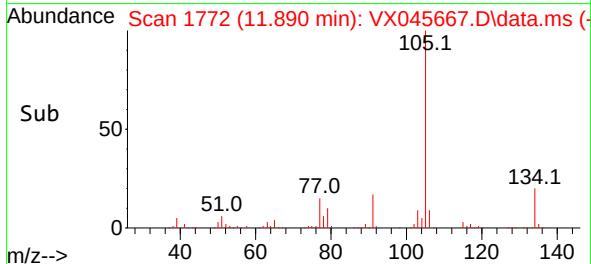
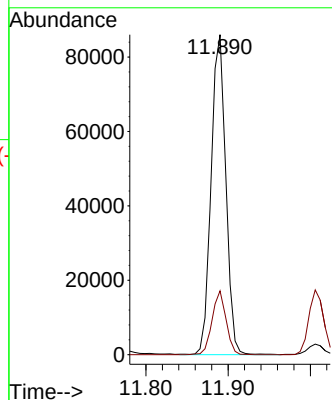
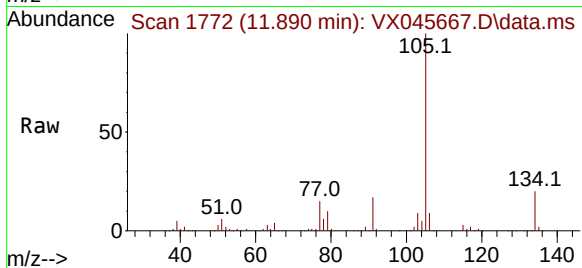
#85
sec-Butylbenzene
Concen: 20.682 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01

Tgt Ion:105 Resp: 10690
Ion Ratio Lower Upper
105 100
134 19.0 9.6 28.6

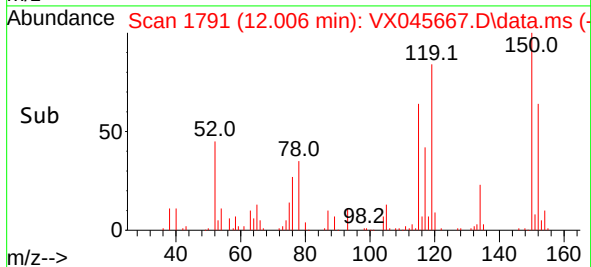
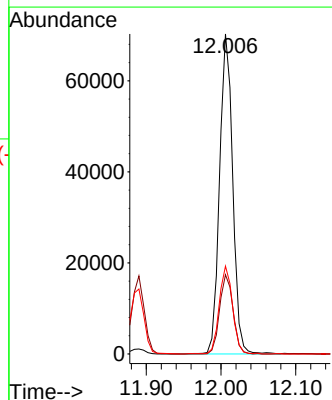
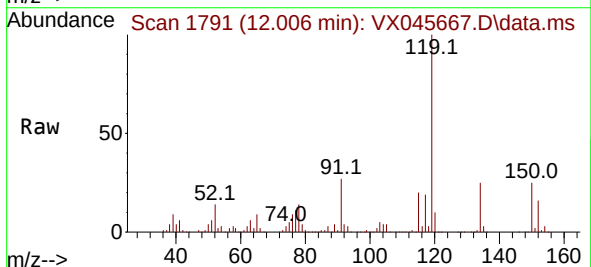
Manual Integrations
APPROVED

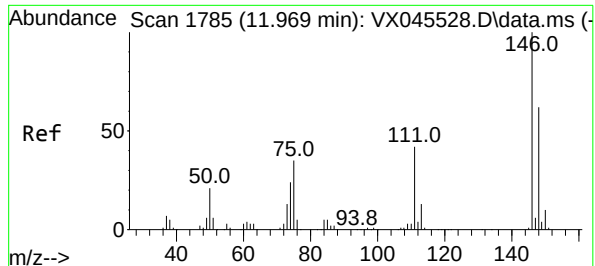
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#86
p-Isopropyltoluene
Concen: 20.201 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

Tgt Ion:119 Resp: 86083
Ion Ratio Lower Upper
119 100
134 25.3 12.6 37.8
91 27.9 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 19.841 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

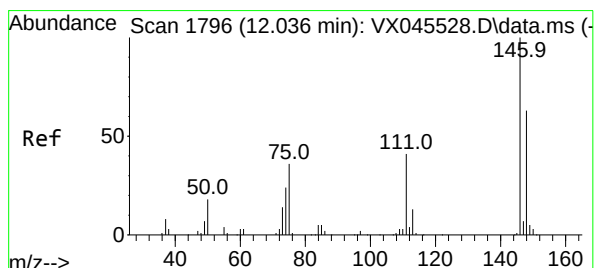
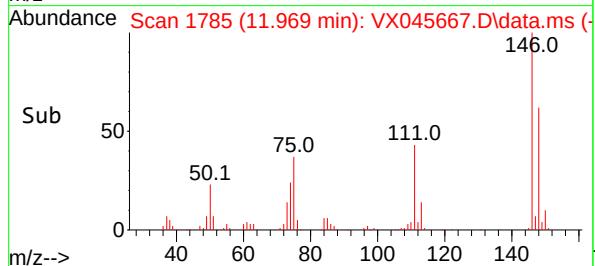
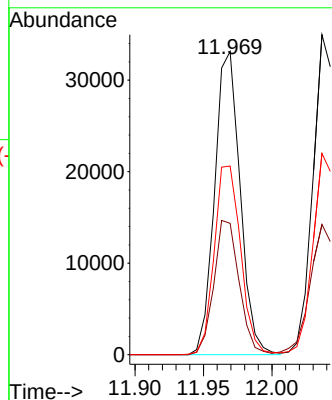
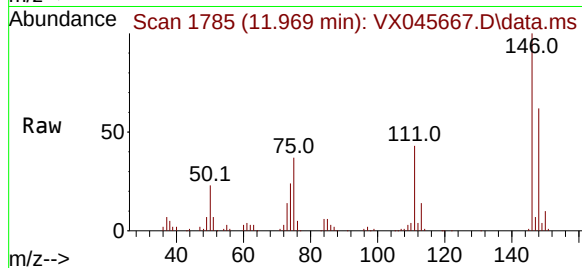
VX0409WBS01

Tgt Ion:	146	Resp:	42890
Ion Ratio	Lower	Upper	
146	100		
111	44.0	22.2	66.6
148	64.7	31.9	95.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#88

1,4-Dichlorobenzene

Concen: 19.938 ug/l

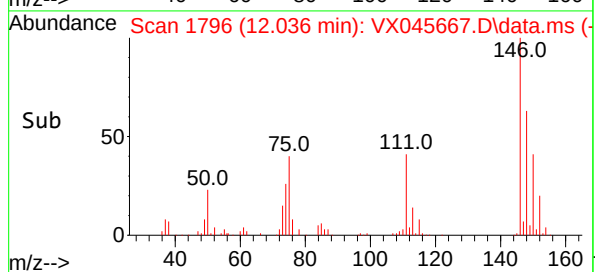
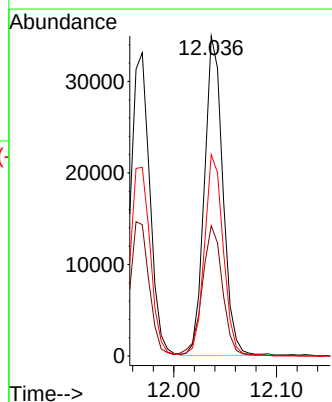
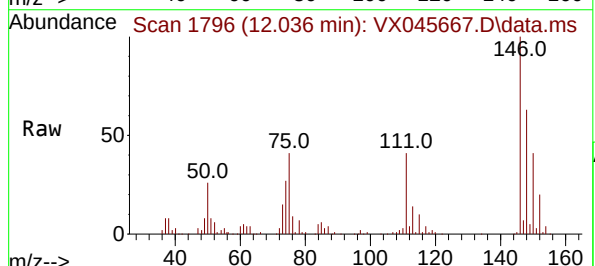
RT: 12.036 min Scan# 1796

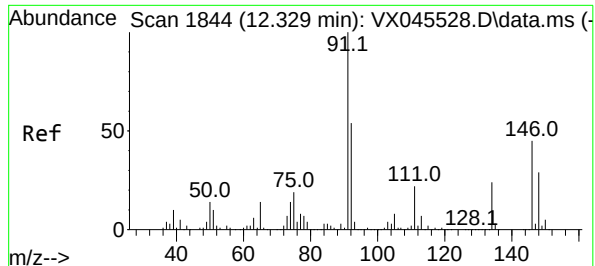
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	146	Resp:	43700
Ion Ratio	Lower	Upper	
146	100		
111	44.4	20.9	62.8
148	64.3	31.5	94.5





#89

n-Butylbenzene

Concen: 20.141 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

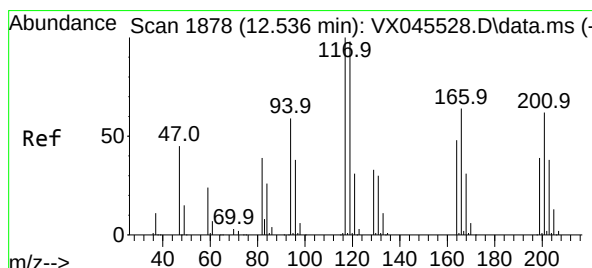
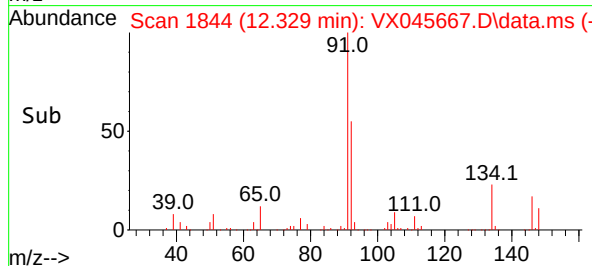
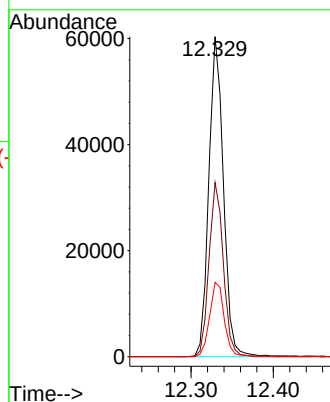
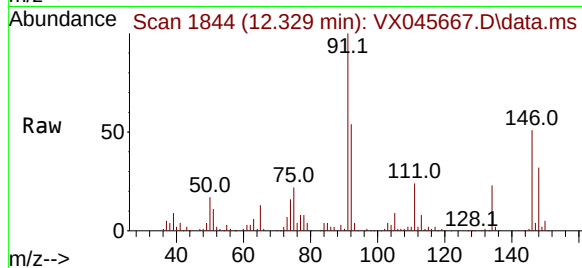
Tgt Ion: 91	Resp: 74429
Ion Ratio	Lower Upper
91	100
92	53.5 26.9 80.6
134	23.3 11.9 35.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#90

Hexachloroethane

Concen: 19.934 ug/l

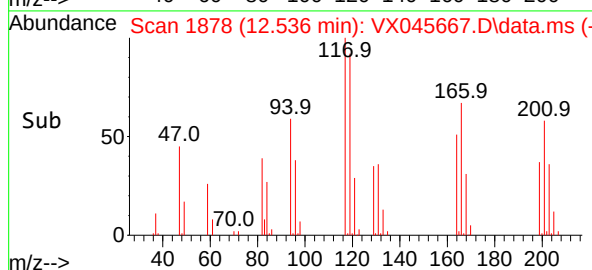
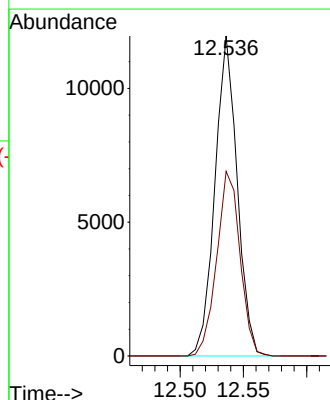
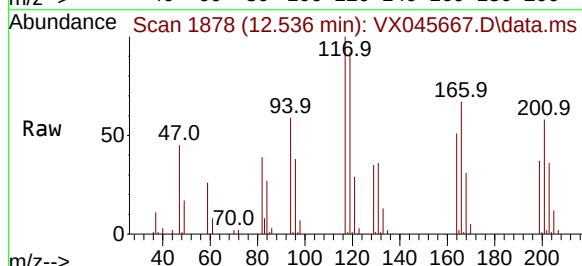
RT: 12.536 min Scan# 1878

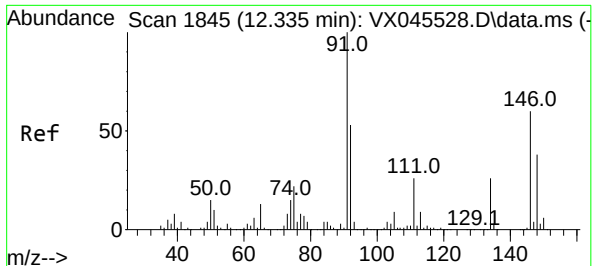
Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

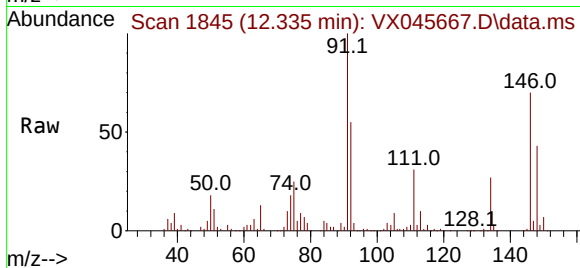
Tgt Ion: 117	Resp: 14599
Ion Ratio	Lower Upper
117	100
201	60.5 31.2 93.6





#91
1,2-Dichlorobenzene
Concen: 20.565 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49

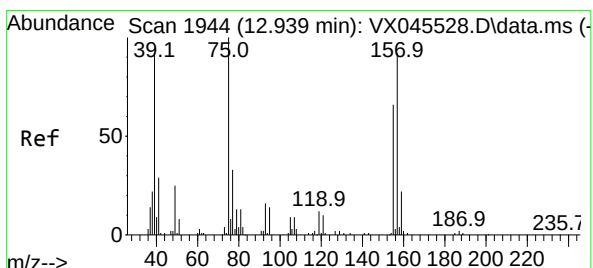
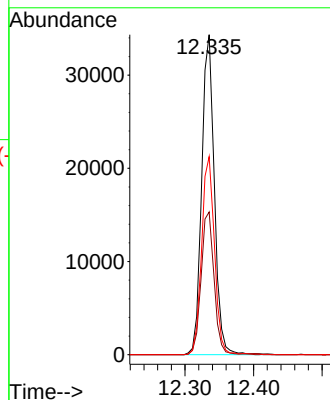
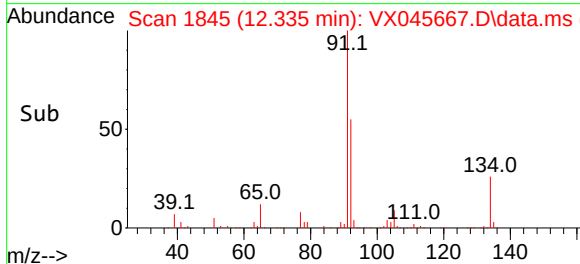
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBS01



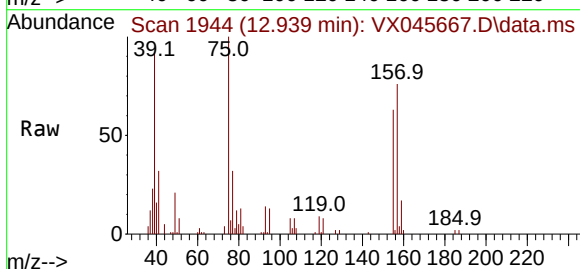
Tgt Ion:146 Resp: 4420
Ion Ratio Lower Upper
146 100
111 45.7 22.9 68.8
148 62.9 31.9 95.5

Manual Integrations
APPROVED

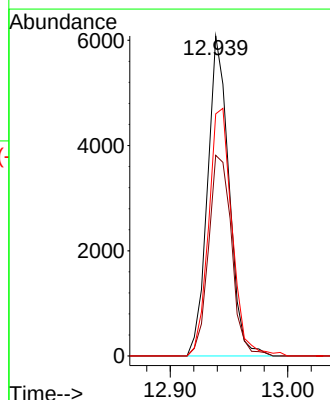
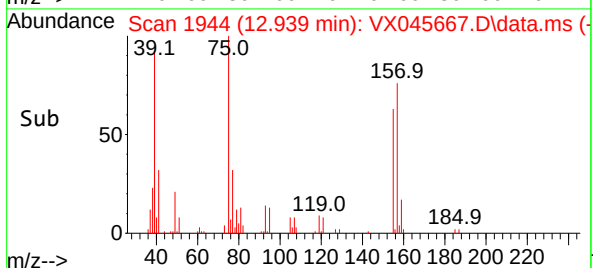
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

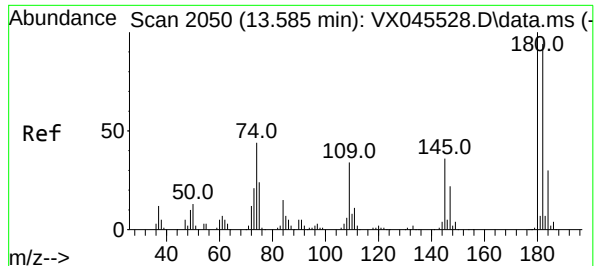


#92
1,2-Dibromo-3-Chloropropane
Concen: 20.447 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045667.D
Acq: 09 Apr 2025 11:49



Tgt Ion: 75 Resp: 7722
Ion Ratio Lower Upper
75 100
155 67.4 34.9 104.7
157 84.5 44.9 134.7





#93

1,2,4-Trichlorobenzene

Concen: 19.140 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

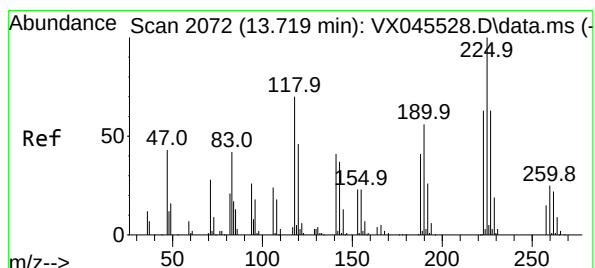
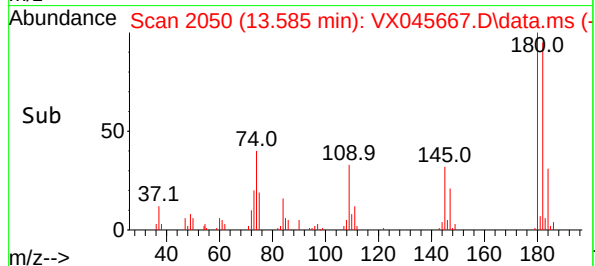
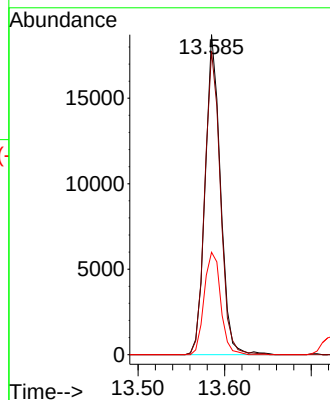
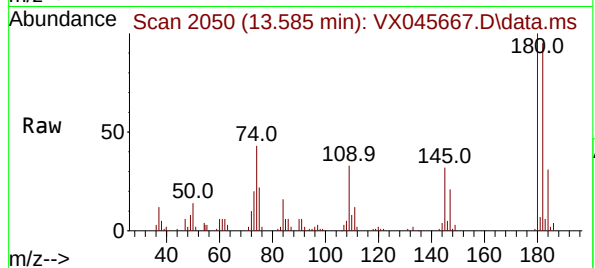
Tgt Ion:	180	Resp:	2290
Ion Ratio	Lower	Upper	
180	100		
182	96.7	47.9	143.6
145	34.5	17.9	53.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#94

Hexachlorobutadiene

Concen: 20.712 ug/l

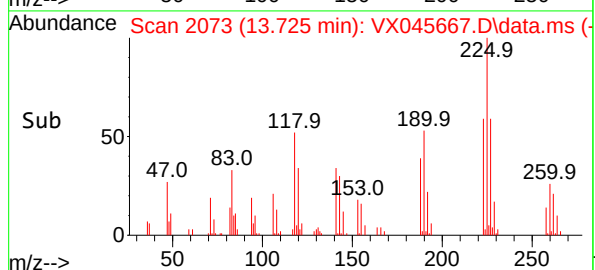
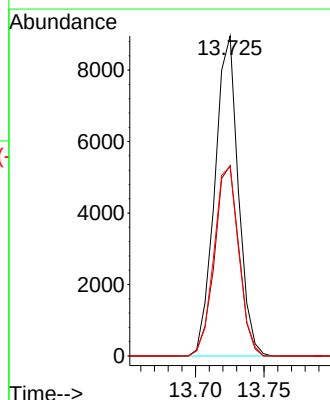
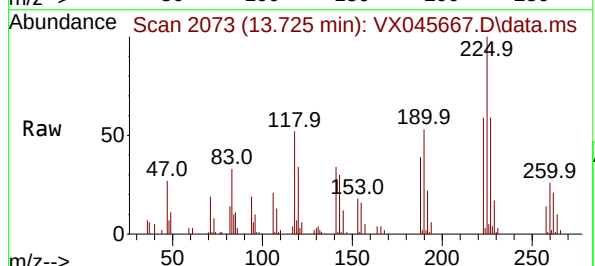
RT: 13.725 min Scan# 2073

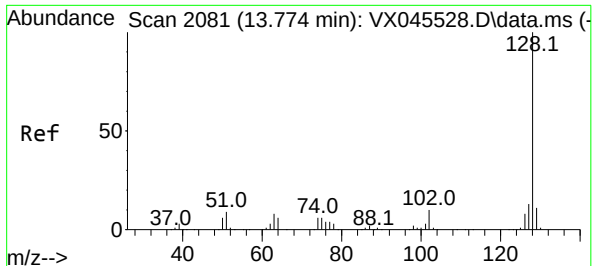
Delta R.T. 0.006 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion:	225	Resp:	10679
Ion Ratio	Lower	Upper	
225	100		
223	61.4	31.1	93.3
227	62.4	32.2	96.6





#95

Naphthalene

Concen: 19.591 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBS01

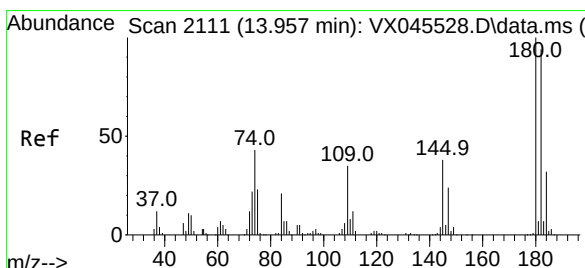
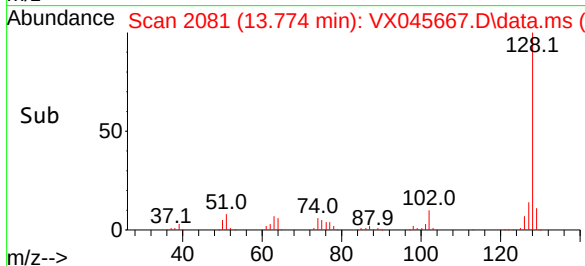
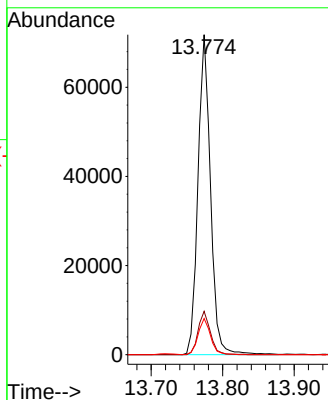
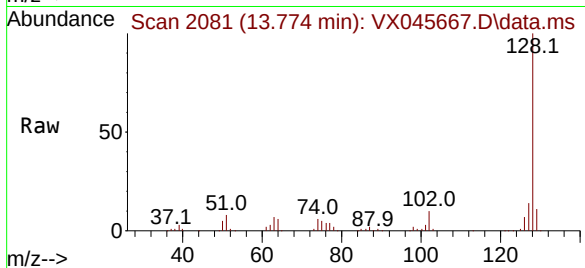
Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.3	15.5
129	11.2	8.6	12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#96

1,2,3-Trichlorobenzene

Concen: 19.742 ug/l

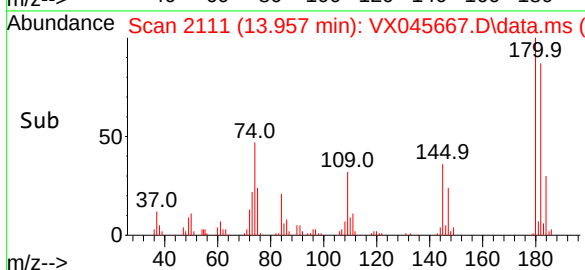
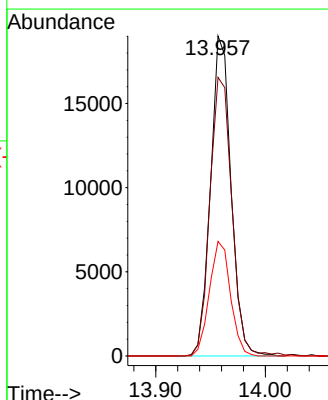
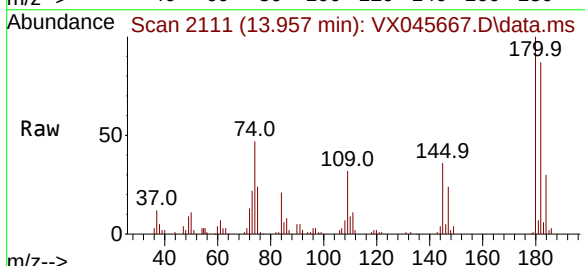
RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX045667.D

Acq: 09 Apr 2025 11:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.3	47.3	141.8
145	36.8	18.2	54.6



Report of Analysis

Client:	PARSONS Engineering of New York, Inc.		Date Collected:	
Project:	Con Edison - 11th Ave-West 50th St Site		Date Received:	
Client Sample ID:	VX0409WBSD01		SDG No.:	Q1739
Lab Sample ID:	VX0409WBSD01		Matrix:	TCLP
Analytical Method:	SW8260		% Solid:	0
Sample Wt/Vol:	5	Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:		uL	Test:	TCLP VOA
GC Column:	DB-624UI	ID : 0.18	Level :	LOW
Prep Method :				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX045668.D	1		04/09/25 12:14	VX040925

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	18.9		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	19.2		0.23	1.00	ug/L
78-93-3	2-Butanone	100		0.98	5.00	ug/L
56-23-5	Carbon Tetrachloride	21.2		0.25	1.00	ug/L
67-66-3	Chloroform	20.8		0.25	1.00	ug/L
71-43-2	Benzene	20.4		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	21.5		0.22	1.00	ug/L
79-01-6	Trichloroethene	20.4		0.090	1.00	ug/L
127-18-4	Tetrachloroethene	22.0		0.23	1.00	ug/L
108-90-7	Chlorobenzene	20.9		0.12	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.1		74 - 125	108%	SPK: 50
1868-53-7	Dibromofluoromethane	53.8		75 - 124	108%	SPK: 50
2037-26-5	Toluene-d8	53.1		86 - 113	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.3		77 - 121	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	83900	5.544			
540-36-3	1,4-Difluorobenzene	147000	6.757			
3114-55-4	Chlorobenzene-d5	129000	10.049			
3855-82-1	1,4-Dichlorobenzene-d4	60500	12.018			

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
 Data File : VX045668.D
 Acq On : 09 Apr 2025 12:14
 Operator : JC/MD
 Sample : VX0409WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0409WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:34:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	83922	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	147335	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	129399	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60456	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	83081	54.134	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.260%			
35) Dibromofluoromethane	5.379	113	56225	53.786	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.580%			
50) Toluene-d8	8.647	98	193619	53.066	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 106.140%			
62) 4-Bromofluorobenzene	11.079	95	72225	54.344	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.680%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	26359	21.002	ug/l	97
3) Chloromethane	1.301	50	24598	19.078	ug/l	96
4) Vinyl Chloride	1.374	62	22249	18.856	ug/l	98
5) Bromomethane	1.593	94	10738	19.193	ug/l	96
6) Chloroethane	1.672	64	13084	20.900	ug/l	96
7) Trichlorofluoromethane	1.874	101	37130	21.102	ug/l	98
8) Diethyl Ether	2.130	74	12288	20.801	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.319	101	22284	21.613	ug/l	98
10) Methyl Iodide	2.447	142	25440	19.781	ug/l	98
11) Tert butyl alcohol	2.971	59	21640	104.919	ug/l	97
12) 1,1-Dichloroethene	2.313	96	19384	19.240	ug/l	96
13) Acrolein	2.233	56	24667	86.848	ug/l	100
14) Allyl chloride	2.660	41	38545	20.164	ug/l	100
15) Acrylonitrile	3.062	53	66469	102.092	ug/l	98
16) Acetone	2.380	43	63148	100.204	ug/l	100
17) Carbon Disulfide	2.502	76	43259	17.385	ug/l	98
18) Methyl Acetate	2.703	43	32001	22.055	ug/l	99
19) Methyl tert-butyl Ether	3.111	73	74214	21.058	ug/l	99
20) Methylene Chloride	2.782	84	23629	20.028	ug/l	98
21) trans-1,2-Dichloroethene	3.081	96	20510	19.927	ug/l	95
22) Diisopropyl ether	3.757	45	76032	20.192	ug/l #	84
23) Vinyl Acetate	3.715	43	337495	103.736	ug/l	100
24) 1,1-Dichloroethane	3.605	63	42727	20.064	ug/l	98
25) 2-Butanone	4.556	43	93998	101.897	ug/l	98
26) 2,2-Dichloropropane	4.471	77	31085	22.593	ug/l	99
27) cis-1,2-Dichloroethene	4.483	96	24738	19.727	ug/l	97
28) Bromochloromethane	4.891	49	22944	22.295	ug/l	95
29) Tetrahydrofuran	5.001	42	60710	101.509	ug/l	99
30) Chloroform	5.086	83	45617	20.818	ug/l	95
31) Cyclohexane	5.464	56	36967	19.636	ug/l	97
32) 1,1,1-Trichloroethane	5.373	97	37694	20.330	ug/l	99
36) 1,1-Dichloropropene	5.684	75	29168	20.666	ug/l	97
37) Ethyl Acetate	4.715	43	35265	19.826	ug/l	99
38) Carbon Tetrachloride	5.666	117	32304	21.177	ug/l	96
39) Methylcyclohexane	7.373	83	36184	20.914	ug/l	97
40) Benzene	6.031	78	88084	20.434	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
 Data File : VX045668.D
 Acq On : 09 Apr 2025 12:14
 Operator : JC/MD
 Sample : VX0409WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0409WBSD01

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2025
 Supervised By : Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:34:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.916	41	19925	21.231	ug/l	98
42) 1,2-Dichloroethane	6.080	62	38327	21.527	ug/l	98
43) Isopropyl Acetate	6.336	43	56680	21.025	ug/l	99
44) Trichloroethene	7.117	130	20859	20.359	ug/l	98
45) 1,2-Dichloropropane	7.421	63	22357	20.787	ug/l	97
46) Dibromomethane	7.580	93	17307	20.962	ug/l	99
47) Bromodichloromethane	7.818	83	34699	21.045	ug/l	97
48) Methyl methacrylate	7.690	41	29460	21.165	ug/l	99
49) 1,4-Dioxane	7.659	88	12023	477.420	ug/l	97
51) 4-Methyl-2-Pentanone	8.568	43	193392	108.215	ug/l	99
52) Toluene	8.714	92	53050	20.338	ug/l	100
53) t-1,3-Dichloropropene	8.976	75	28240	19.284	ug/l	98
54) cis-1,3-Dichloropropene	8.360	75	33764	21.791	ug/l	96
55) 1,1,2-Trichloroethane	9.147	97	21842	21.014	ug/l	97
56) Ethyl methacrylate	9.116	69	34262	21.299	ug/l	99
57) 1,3-Dichloropropane	9.305	76	38282	21.151	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	86030	105.722	ug/l	99
59) 2-Hexanone	9.427	43	144024	108.828	ug/l	100
60) Dibromochloromethane	9.519	129	23898	21.090	ug/l	100
61) 1,2-Dibromoethane	9.604	107	22040	20.947	ug/l	100
64) Tetrachloroethene	9.269	164	20103	22.004	ug/l	98
65) Chlorobenzene	10.073	112	57784	20.898	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	20170	21.011	ug/l	99
67) Ethyl Benzene	10.189	91	103577	20.915	ug/l	97
68) m/p-Xylenes	10.299	106	76264	42.342	ug/l	99
69) o-Xylene	10.640	106	36814	20.748	ug/l	97
70) Styrene	10.653	104	62023	21.179	ug/l	99
71) Bromoform	10.799	173	14473	20.192	ug/l #	96
73) Isopropylbenzene	10.957	105	100080	20.667	ug/l	100
74) N-amyl acetate	10.842	43	48343	20.869	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.207	83	34910	20.522	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30554m	20.719	ug/l	
77) Bromobenzene	11.195	156	22419	20.037	ug/l	99
78) n-propylbenzene	11.299	91	114673	20.559	ug/l	100
79) 2-Chlorotoluene	11.360	91	72313	20.279	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	84415	21.081	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.018	75	8233	18.948	ug/l	91
82) 4-Chlorotoluene	11.451	91	81662	20.540	ug/l	99
83) tert-Butylbenzene	11.713	119	81324	20.513	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	84218	20.954	ug/l	98
85) sec-Butylbenzene	11.890	105	102552	21.061	ug/l	99
86) p-Isopropyltoluene	12.006	119	83431	20.783	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	41742	20.495	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	41769	20.229	ug/l	97
89) n-Butylbenzene	12.329	91	72507	20.828	ug/l	99
90) Hexachloroethane	12.536	117	13954	20.226	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	42899	21.185	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7403	20.808	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	23347	20.713	ug/l	98
94) Hexachlorobutadiene	13.725	225	10328	21.264	ug/l	99
95) Naphthalene	13.774	128	85609	20.410	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	23965	20.305	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045668.D
Acq On : 09 Apr 2025 12:14
Operator : JC/MD
Sample : VX0409WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration

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

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

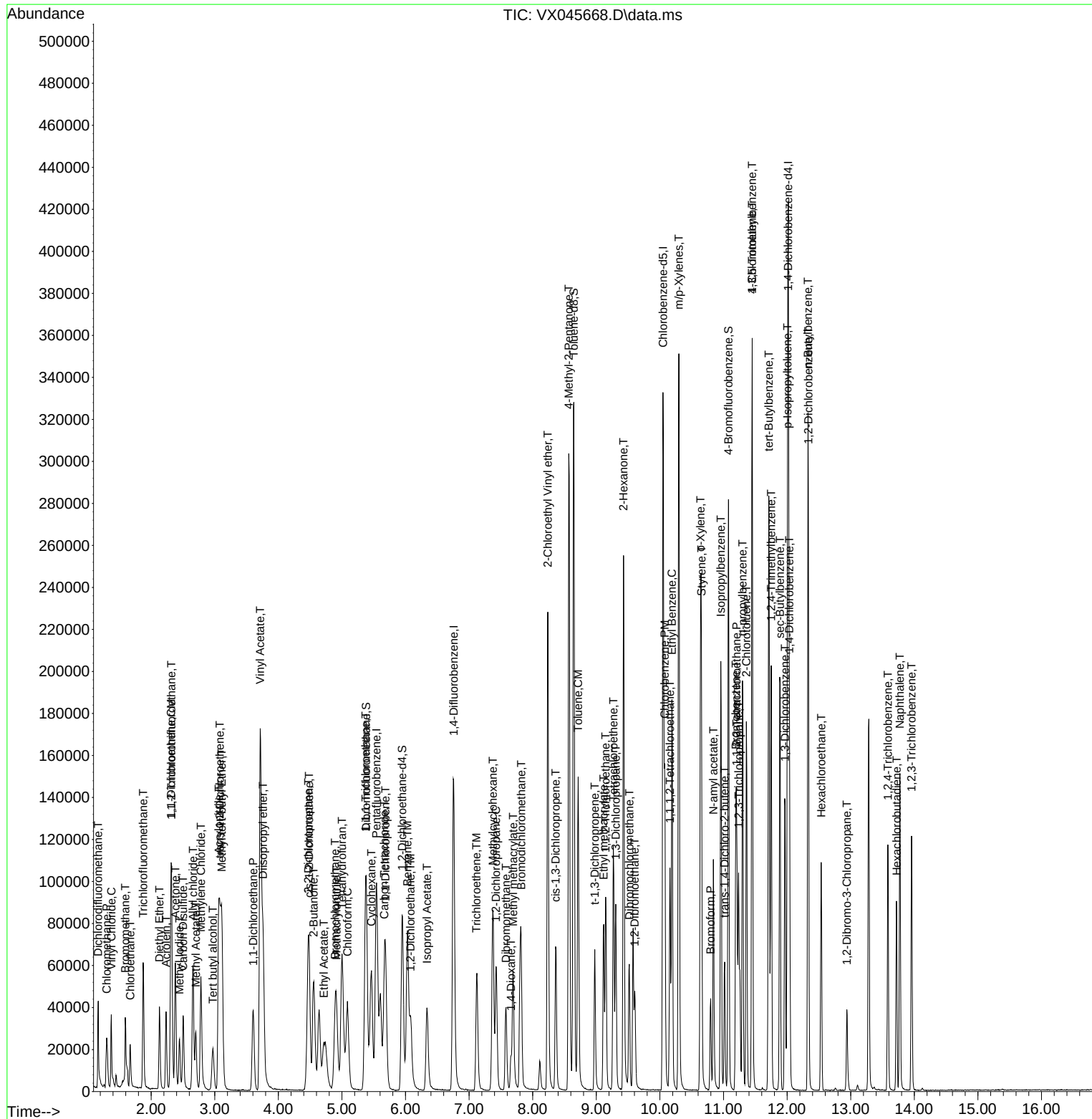
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040925\
Data File : VX045668.D
Acq On : 09 Apr 2025 12:14
Operator : JC/MD
Sample : VX0409WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

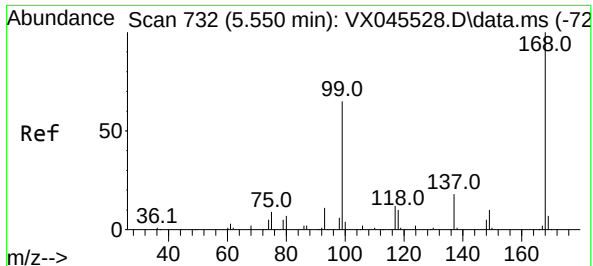
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025

Quant Time: Apr 10 01:34:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
Quant Title : SW846 8260
QLast Update : Wed Apr 02 03:11:43 2025
Response via : Initial Calibration





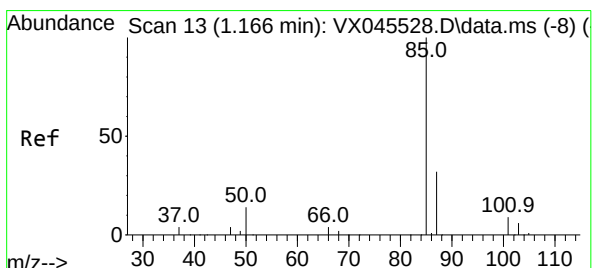
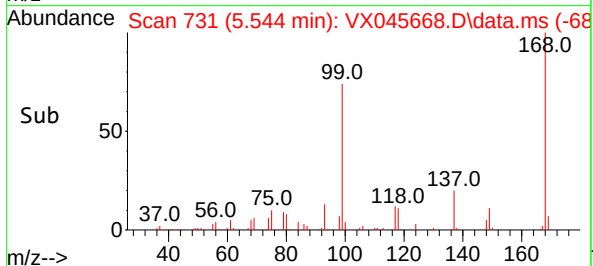
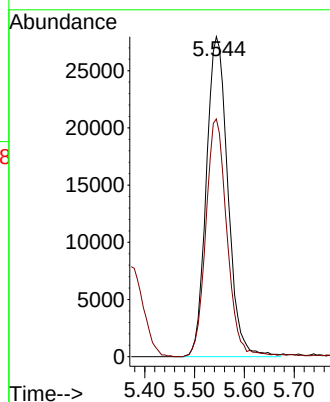
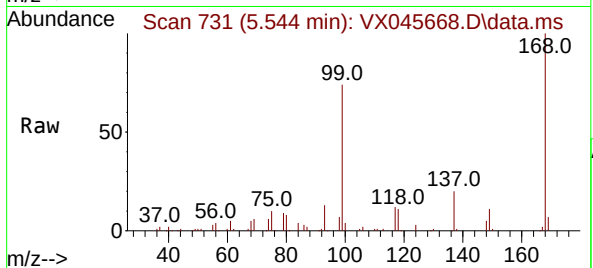
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion:168 Resp: 8392
Ion Ratio Lower Upper
168 100
99 74.3 52.3 78.5

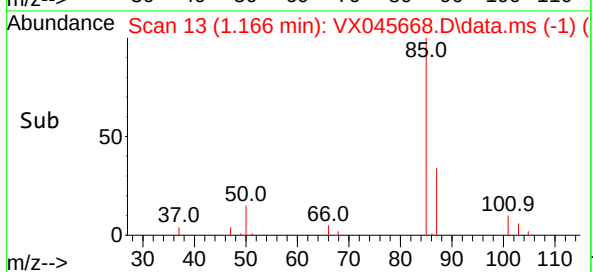
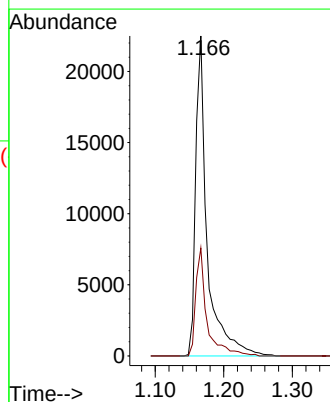
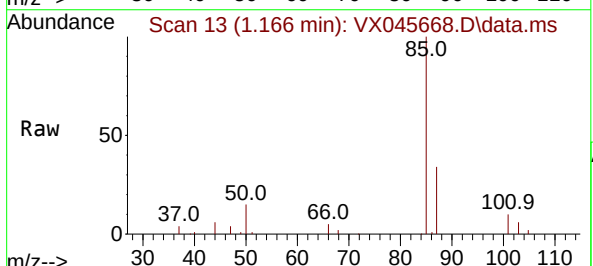
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

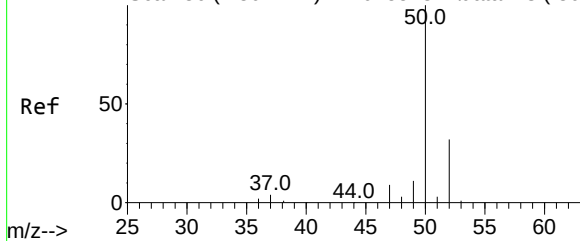


#2
Dichlorodifluoromethane
Concen: 21.002 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion: 85 Resp: 26359
Ion Ratio Lower Upper
85 100
87 33.8 16.1 48.2



Abundance Scan 36 (1.307 min): VX045528.D\data.ms (-30)



#3

Chloromethane

Concen: 19.078 ug/l

RT: 1.301 min Scan# 3

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 50 Resp: 2459

Ion Ratio Lower Upper

50 100

52 34.7 25.9 38.9

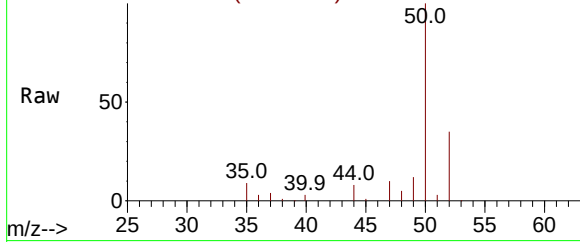
Manual Integrations

APPROVED

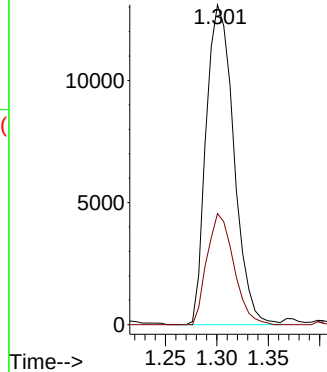
Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025

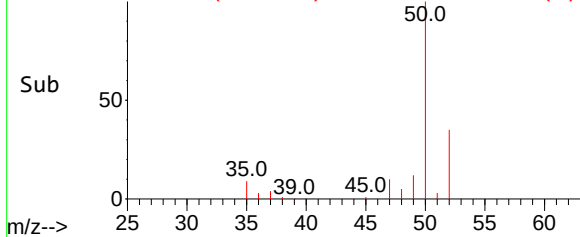
Abundance Scan 35 (1.301 min): VX045668.D\data.ms



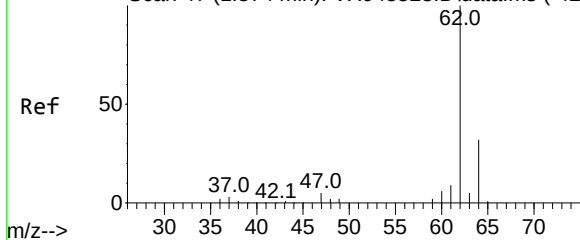
Abundance



Abundance Scan 35 (1.301 min): VX045668.D\data.ms (-1)



Abundance Scan 47 (1.374 min): VX045528.D\data.ms (-42)



#4

Vinyl Chloride

Concen: 18.856 ug/l

RT: 1.374 min Scan# 47

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

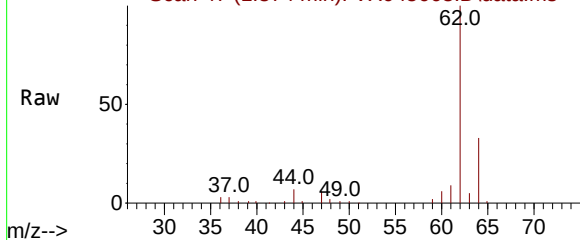
Tgt Ion: 62 Resp: 22249

Ion Ratio Lower Upper

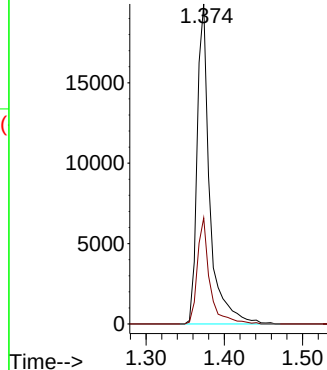
62 100

64 33.1 25.5 38.3

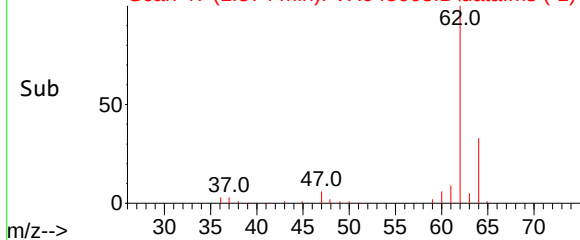
Abundance Scan 47 (1.374 min): VX045668.D\data.ms

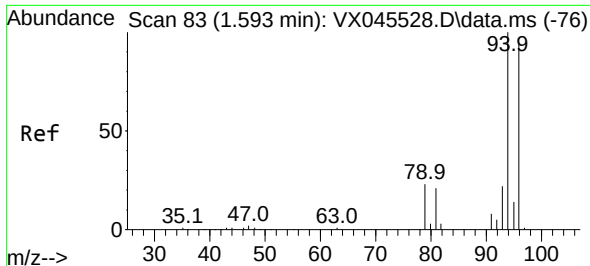


Abundance



Abundance Scan 47 (1.374 min): VX045668.D\data.ms (-1)





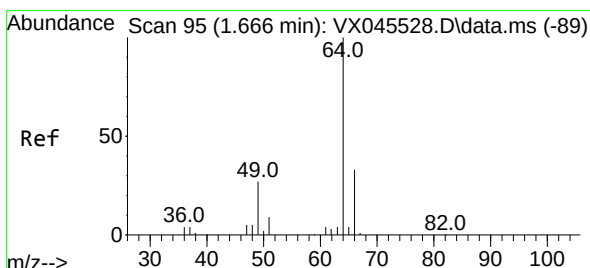
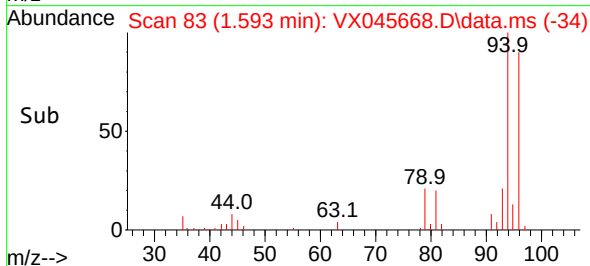
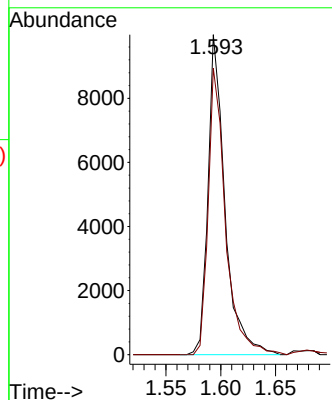
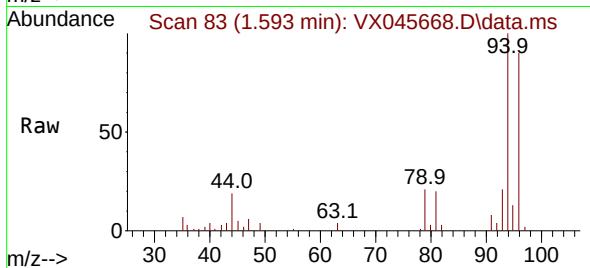
#5
Bromomethane
Concen: 19.193 ug/l
RT: 1.593 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion: 94 Resp: 10738
Ion Ratio Lower Upper
94 100
96 89.5 74.8 112.2

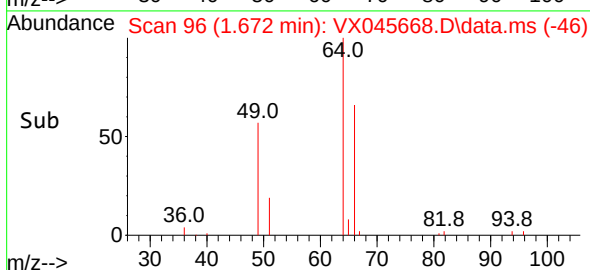
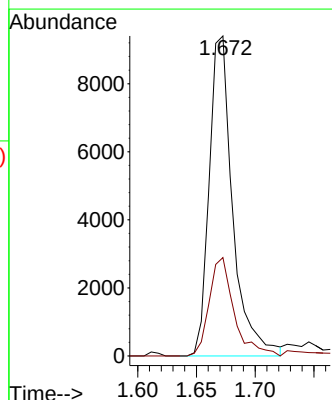
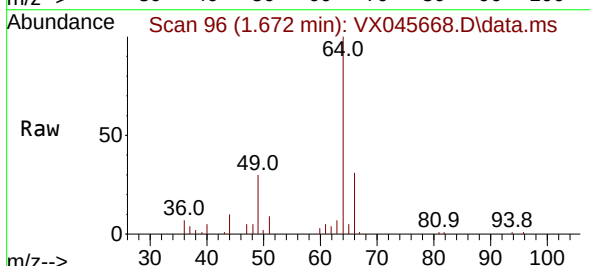
Manual Integrations
APPROVED

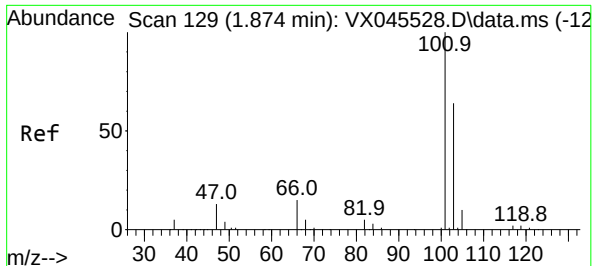
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#6
Chloroethane
Concen: 20.900 ug/l
RT: 1.672 min Scan# 96
Delta R.T. 0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

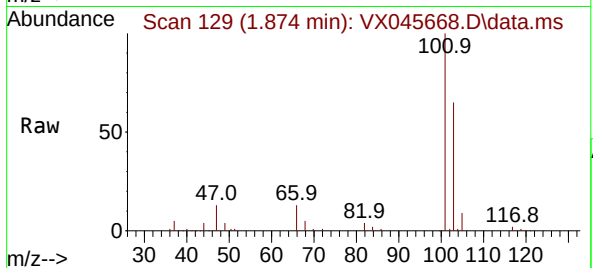
Tgt Ion: 64 Resp: 13084
Ion Ratio Lower Upper
64 100
66 30.8 26.3 39.5





#7
Trichlorofluoromethane
Concen: 21.102 ug/l
RT: 1.874 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

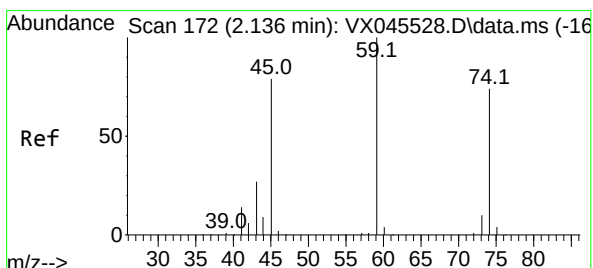
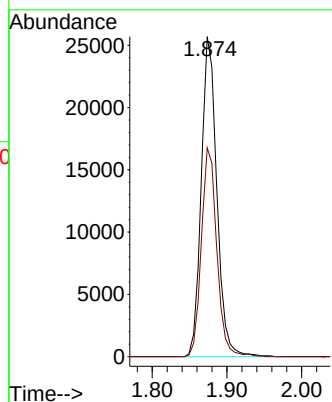
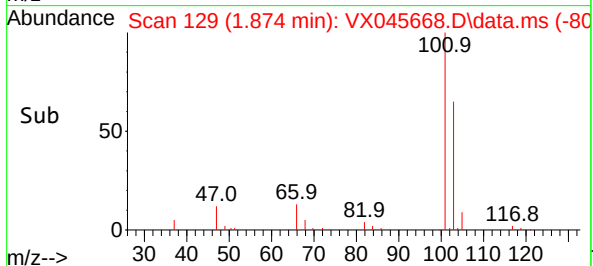
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



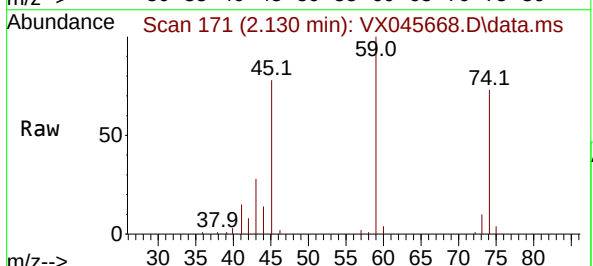
Tgt Ion:101 Resp: 37130
Ion Ratio Lower Upper
101 100
103 65.2 51.1 76.7

Manual Integrations
APPROVED

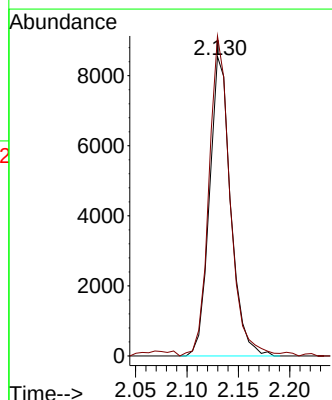
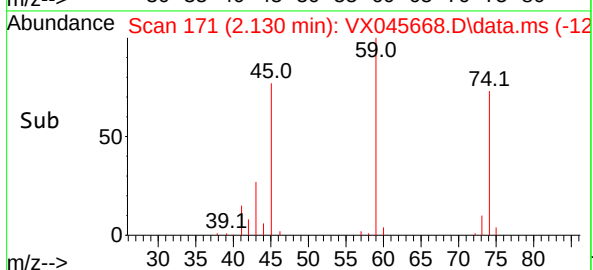
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

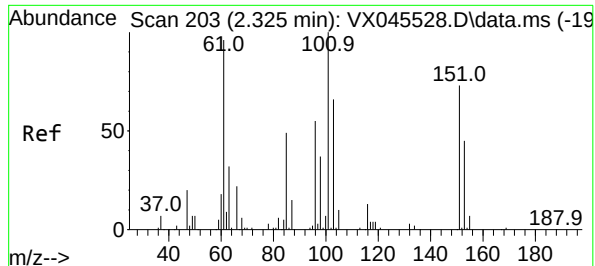


#8
Diethyl Ether
Concen: 20.801 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14



Tgt Ion: 74 Resp: 12288
Ion Ratio Lower Upper
74 100
45 106.8 53.0 159.1





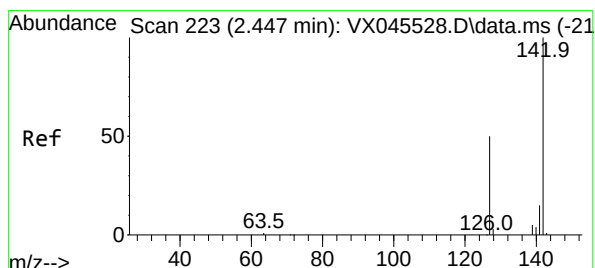
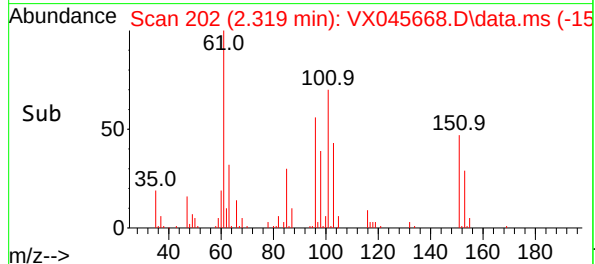
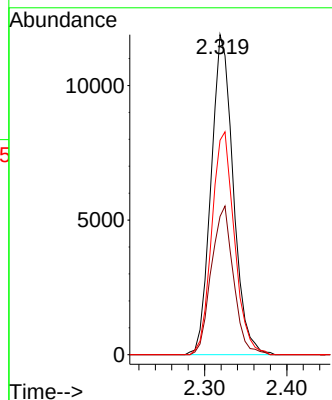
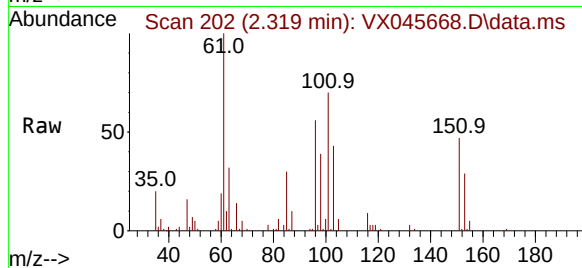
#9
1,1,2-Trichlorotrifluoroethane
Concen: 21.613 ug/l
RT: 2.319 min Scan# 203
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion:101 Resp: 22284
Ion Ratio Lower Upper
101 100
85 46.3 38.9 58.3
151 71.2 57.5 86.3

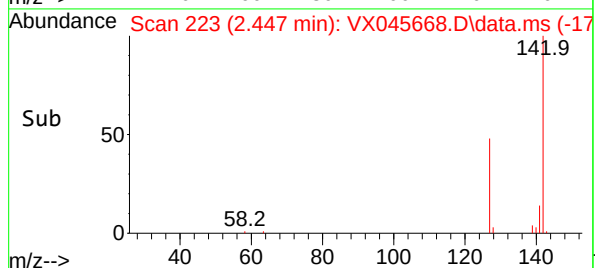
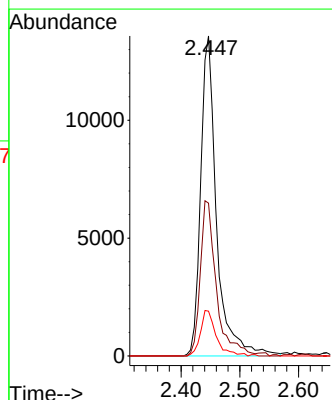
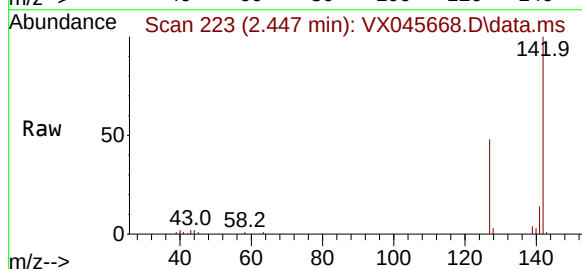
Manual Integrations
APPROVED

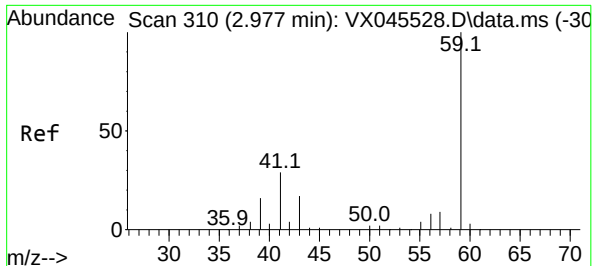
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#10
Methyl Iodide
Concen: 19.781 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion:142 Resp: 25440
Ion Ratio Lower Upper
142 100
127 49.0 40.2 60.4
141 14.2 11.7 17.5





#11

Tert butyl alcohol

Concen: 104.919 ug/l

RT: 2.971 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 59 Resp: 21640

Ion Ratio Lower Upper

59 100

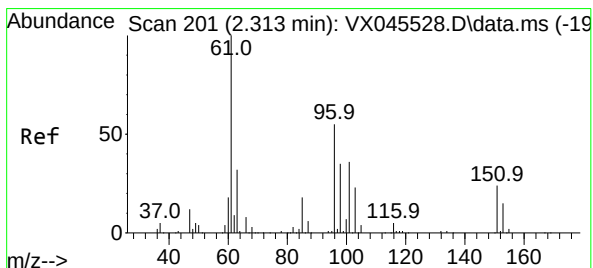
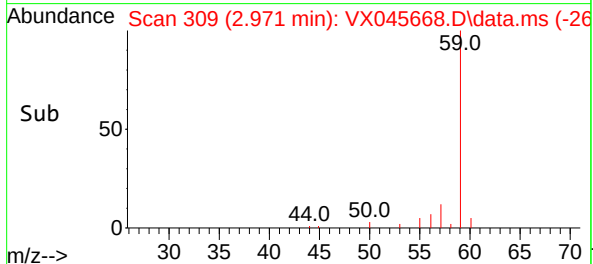
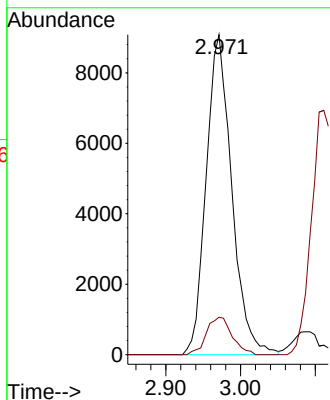
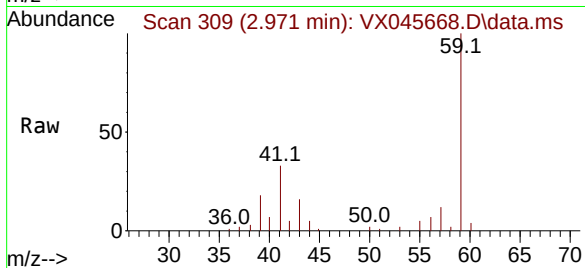
57 11.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#12

1,1-Dichloroethene

Concen: 19.240 ug/l

RT: 2.313 min Scan# 201

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

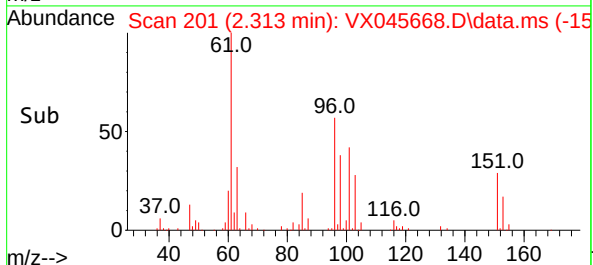
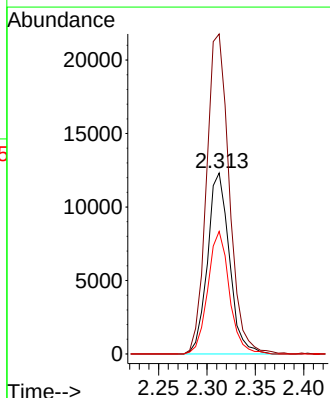
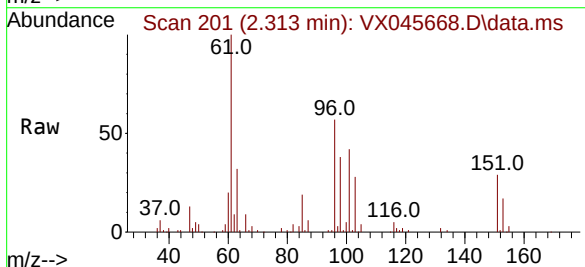
Tgt Ion: 96 Resp: 19384

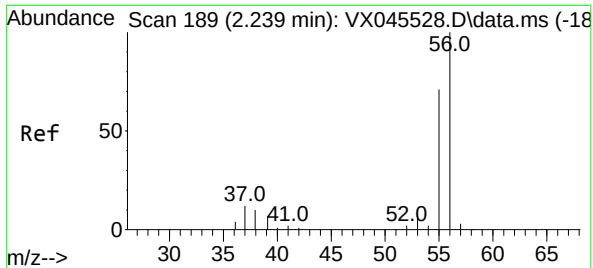
Ion Ratio Lower Upper

96 100

61 176.9 145.7 218.5

98 67.7 51.6 77.4





#13

Acrolein

Concen: 86.848 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 56 Resp: 2466

Ion Ratio Lower Upper

56 100

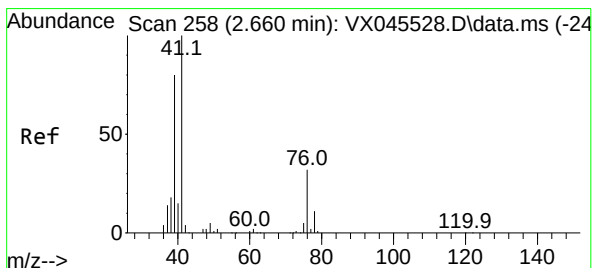
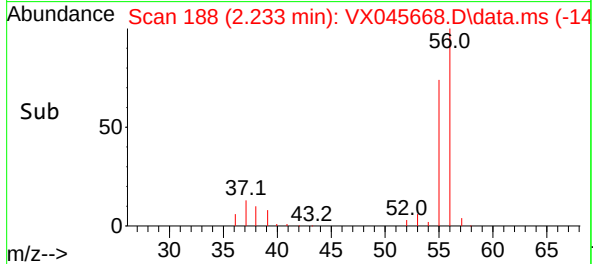
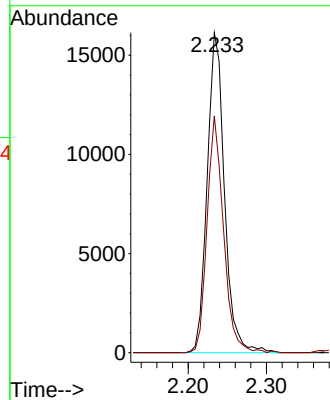
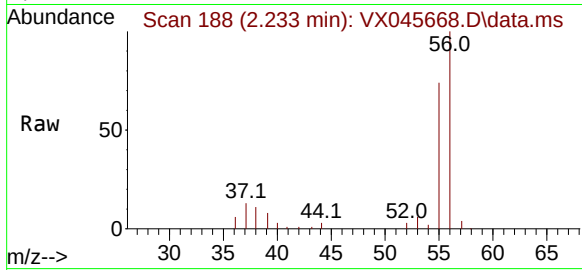
55 70.5 56.2 84.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#14

Allyl chloride

Concen: 20.164 ug/l

RT: 2.660 min Scan# 258

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

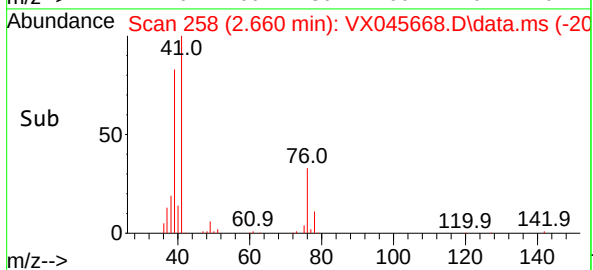
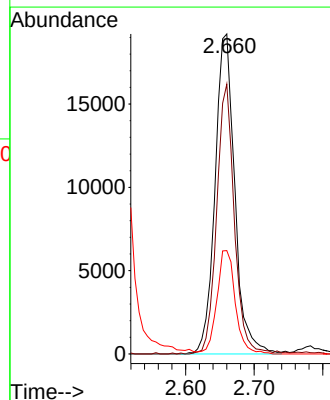
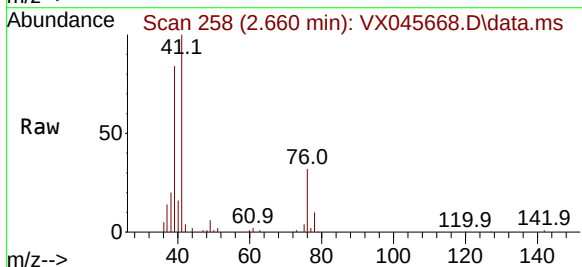
Tgt Ion: 41 Resp: 38545

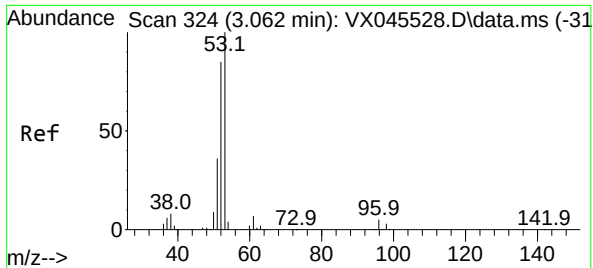
Ion Ratio Lower Upper

41 100

39 75.2 60.2 90.2

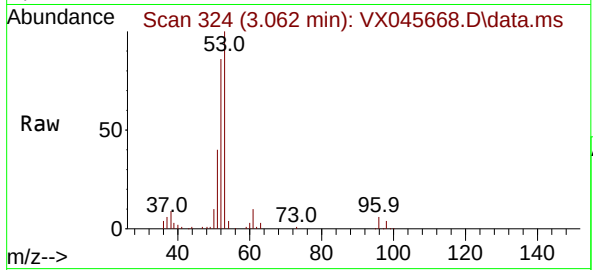
76 30.1 24.6 36.8





#15
Acrylonitrile
Concen: 102.092 ug/l
RT: 3.062 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

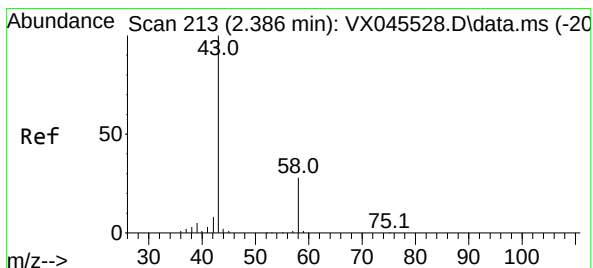
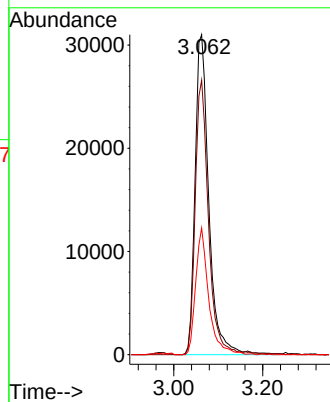
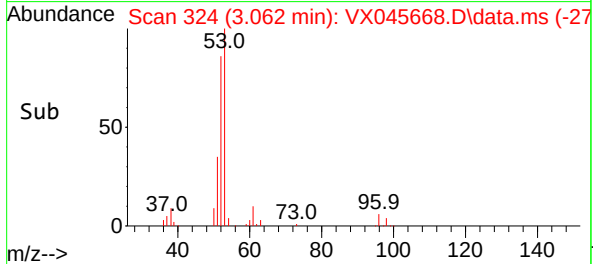
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



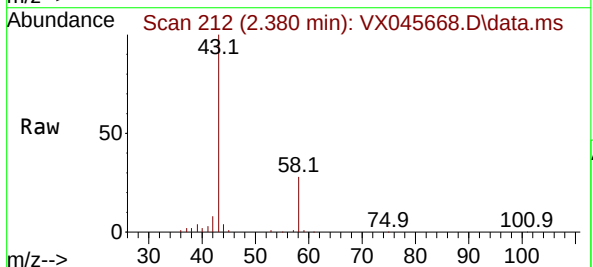
Tgt Ion: 53 Resp: 66469
Ion Ratio Lower Upper
53 100
52 82.2 67.4 101.2
51 37.8 29.9 44.9

Manual Integrations
APPROVED

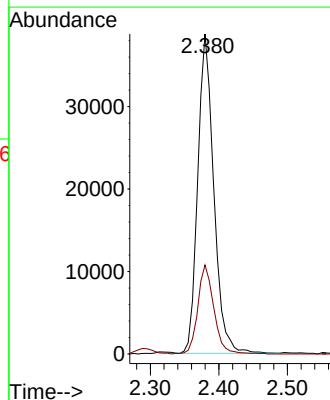
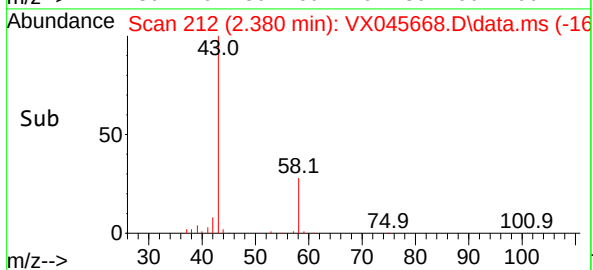
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

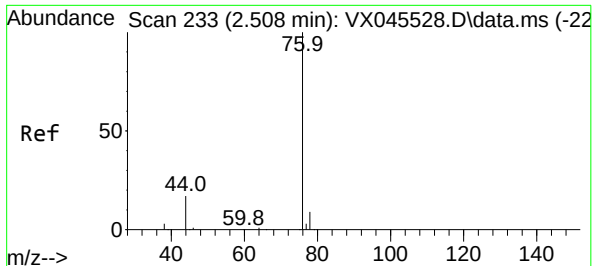


#16
Acetone
Concen: 100.204 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14



Tgt Ion: 43 Resp: 63148
Ion Ratio Lower Upper
43 100
58 27.8 22.3 33.5





#17

Carbon Disulfide

Concen: 17.385 ug/l

RT: 2.502 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 76 Resp: 43259

Ion Ratio Lower Upper

76 100

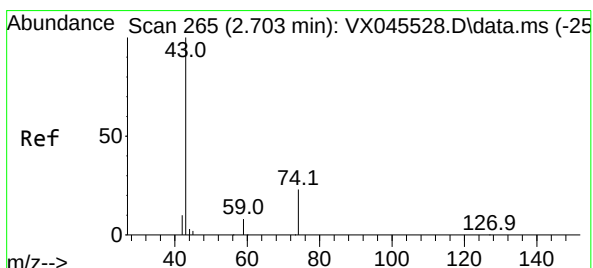
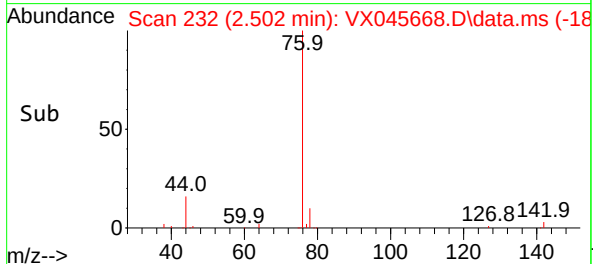
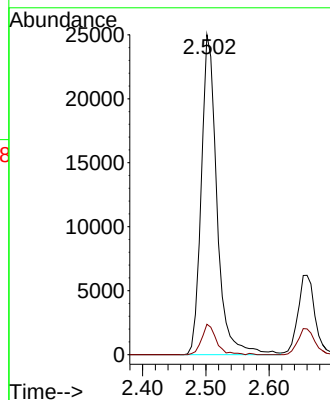
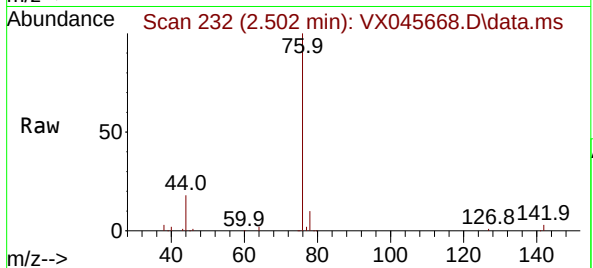
78 9.5 7.0 10.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#18

Methyl Acetate

Concen: 22.055 ug/l

RT: 2.703 min Scan# 265

Delta R.T. 0.000 min

Lab File: VX045668.D

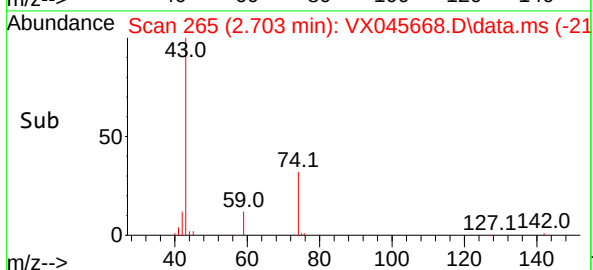
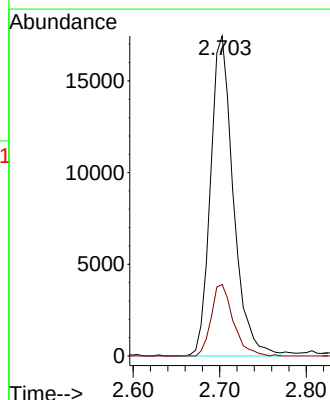
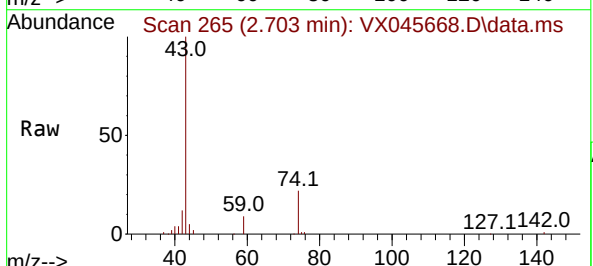
Acq: 09 Apr 2025 12:14

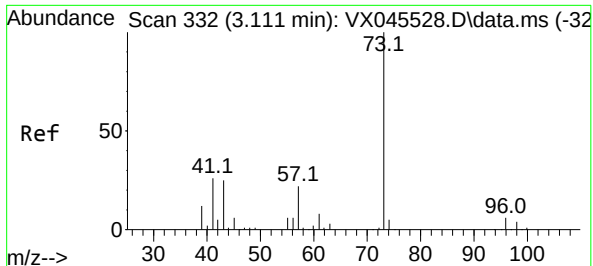
Tgt Ion: 43 Resp: 32001

Ion Ratio Lower Upper

43 100

74 21.6 17.5 26.3





#19

Methyl tert-butyl Ether

Concen: 21.058 ug/l

RT: 3.111 min Scan# 311

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 73 Resp: 74214

Ion Ratio Lower Upper

73 100

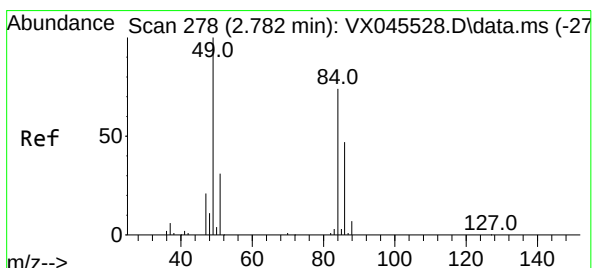
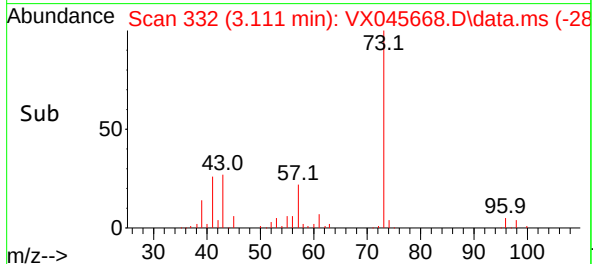
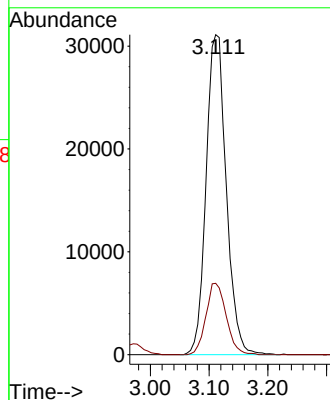
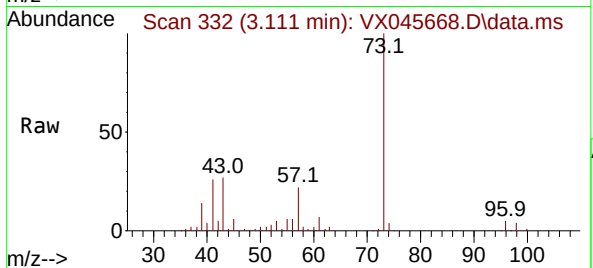
57 22.3 17.6 26.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#20

Methylene Chloride

Concen: 20.028 ug/l

RT: 2.782 min Scan# 278

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion: 84 Resp: 23629

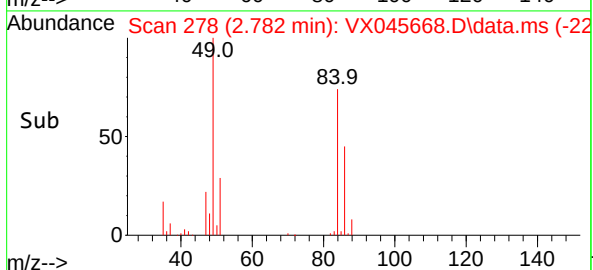
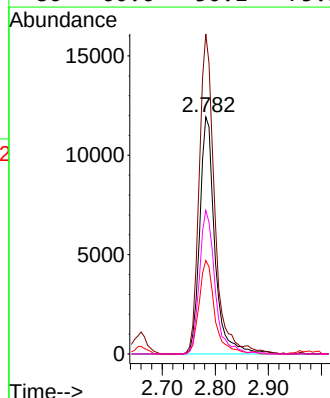
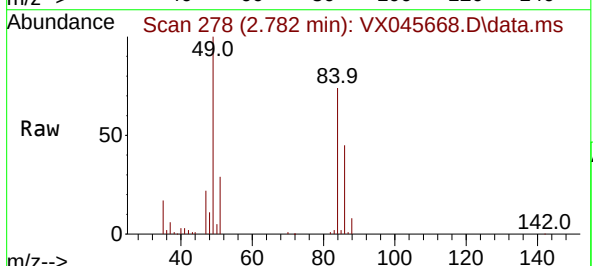
Ion Ratio Lower Upper

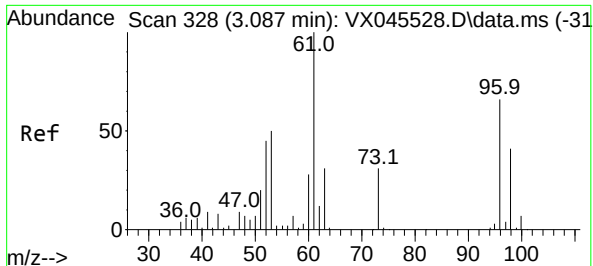
84 100

49 135.0 107.5 161.3

51 39.4 33.0 49.6

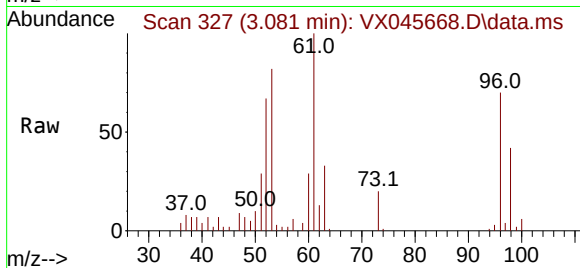
86 60.6 50.1 75.1





#21
trans-1,2-Dichloroethene
Concen: 19.927 ug/l
RT: 3.081 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

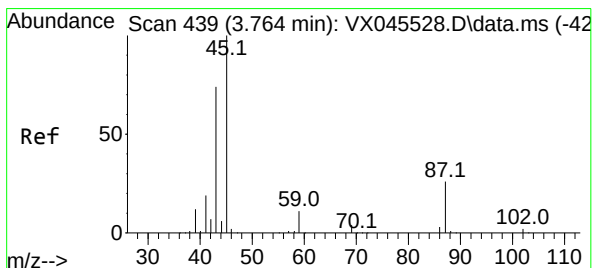
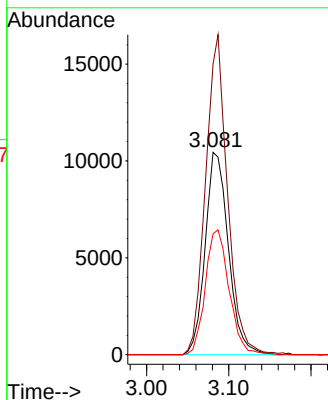
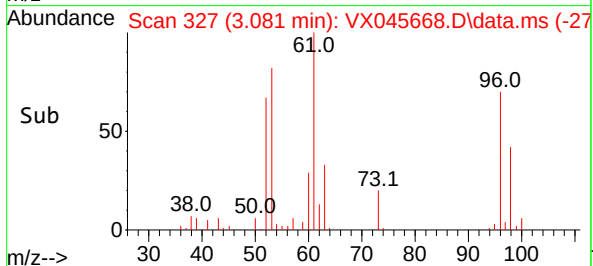
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



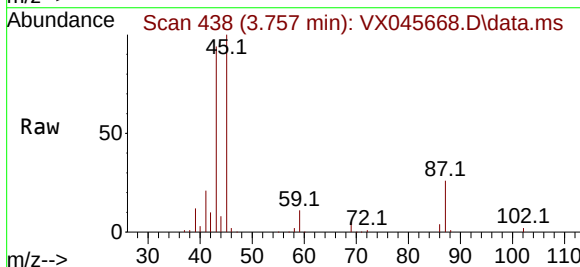
Tgt Ion: 96 Resp: 20510
Ion Ratio Lower Upper
96 100
61 143.6 121.0 181.6
98 59.8 49.7 74.5

Manual Integrations
APPROVED

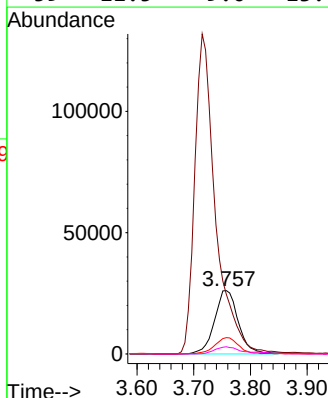
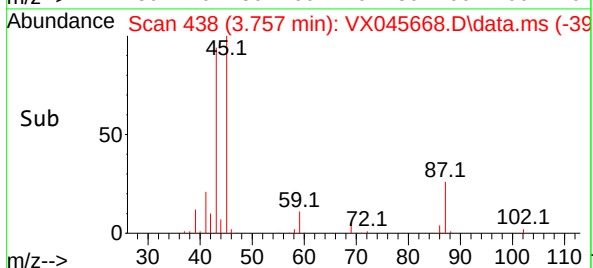
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

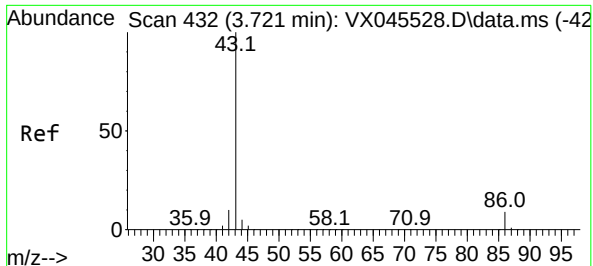


#22
Diisopropyl ether
Concen: 20.192 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14



Tgt Ion: 45 Resp: 76032
Ion Ratio Lower Upper
45 100
43 93.6 59.3 88.9#
87 25.8 20.4 30.6
59 11.5 9.0 13.6





#23

Vinyl Acetate

Concen: 103.736 ug/l

RT: 3.715 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 43 Resp: 33749

Ion Ratio Lower Upper

43 100

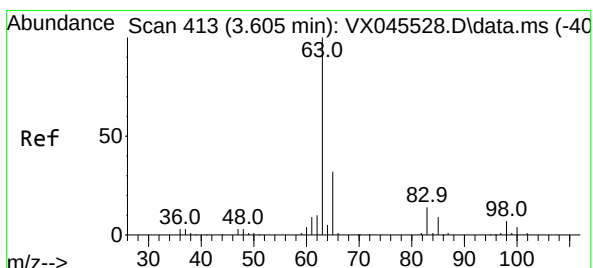
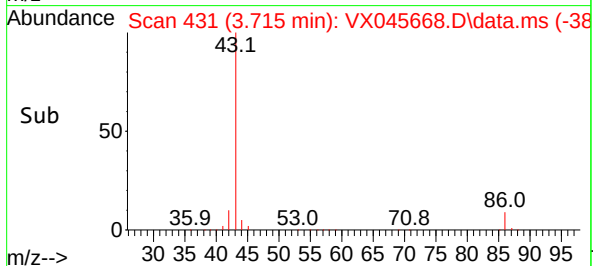
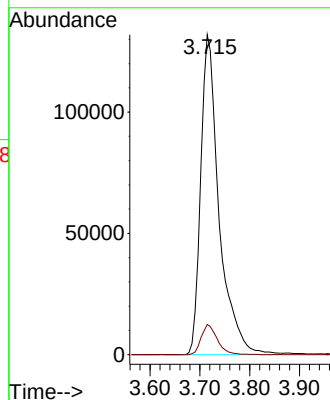
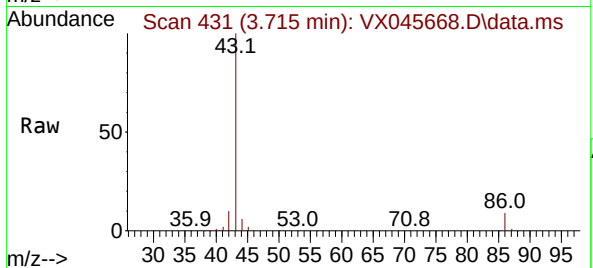
86 9.5 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#24

1,1-Dichloroethane

Concen: 20.064 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

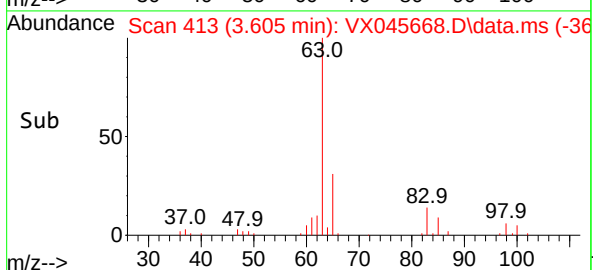
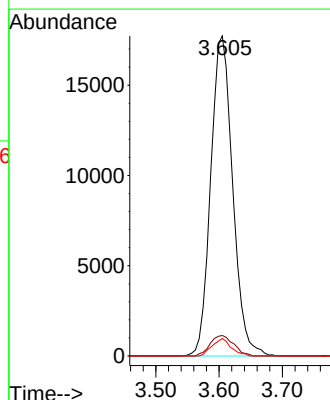
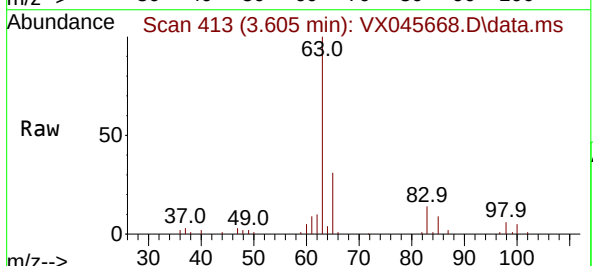
Tgt Ion: 63 Resp: 42727

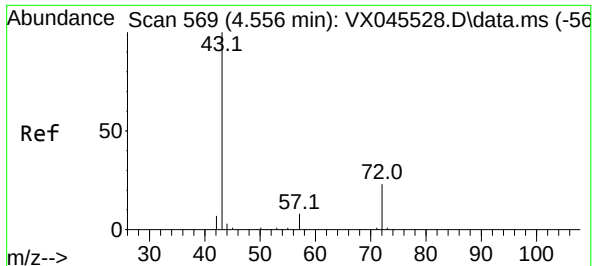
Ion Ratio Lower Upper

63 100

98 6.4 3.4 10.1

100 5.4 2.2 6.6





#25

2-Butanone

Concen: 101.897 ug/l

RT: 4.556 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 43 Resp: 93998

Ion Ratio Lower Upper

43 100

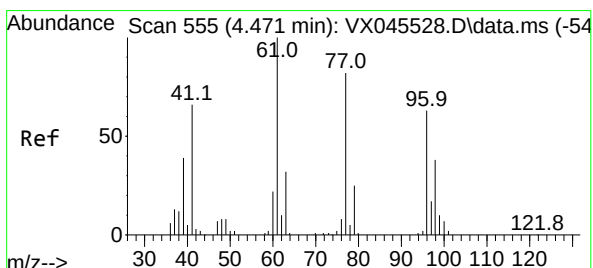
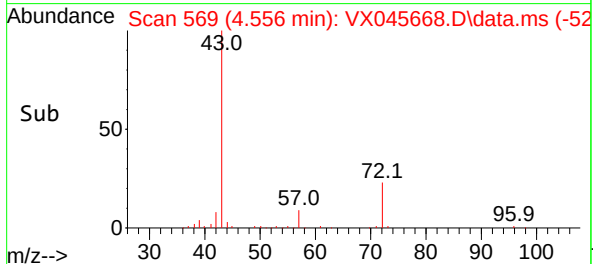
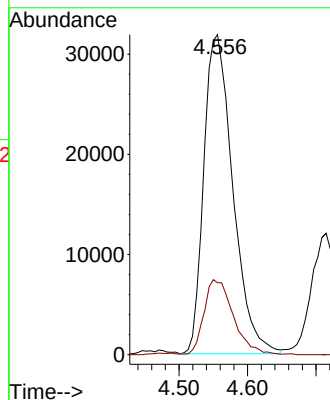
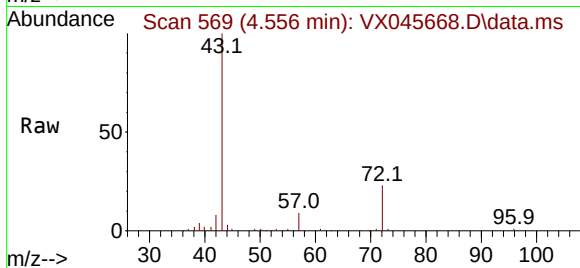
72 22.4 18.6 28.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#26

2,2-Dichloropropane

Concen: 22.593 ug/l

RT: 4.471 min Scan# 555

Delta R.T. 0.000 min

Lab File: VX045668.D

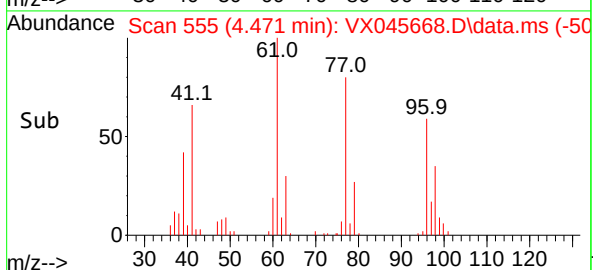
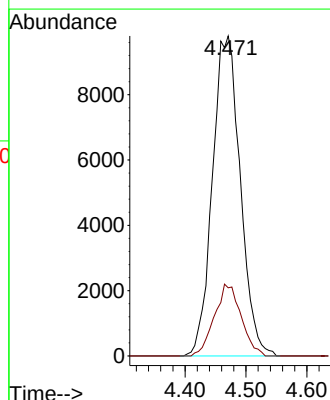
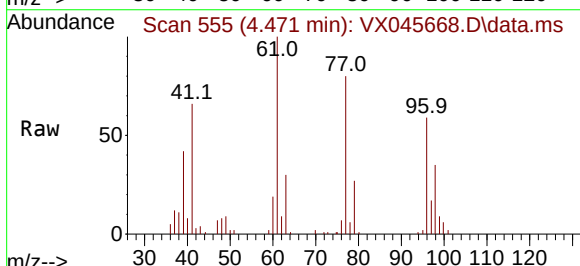
Acq: 09 Apr 2025 12:14

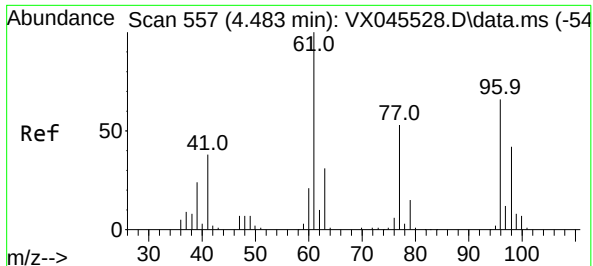
Tgt Ion: 77 Resp: 31085

Ion Ratio Lower Upper

77 100

97 21.5 10.6 31.8





#27

cis-1,2-Dichloroethene

Concen: 19.727 ug/l

RT: 4.483 min Scan# 557

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 96 Resp: 24738

Ion Ratio Lower Upper

96 100

61 161.1 0.0 313.2

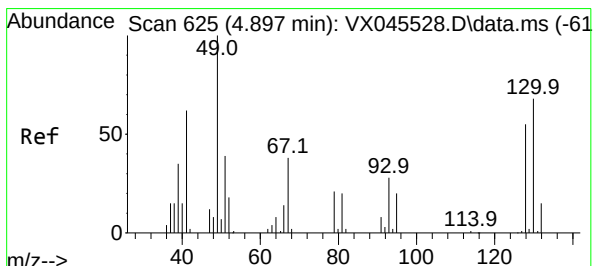
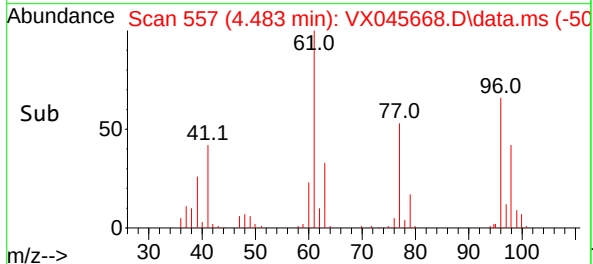
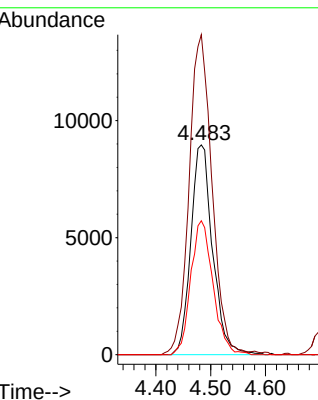
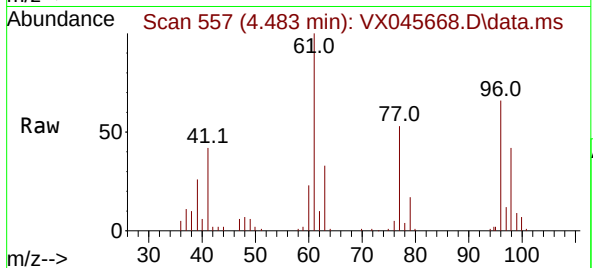
98 65.2 0.0 126.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#28

Bromochloromethane

Concen: 22.295 ug/l

RT: 4.891 min Scan# 624

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

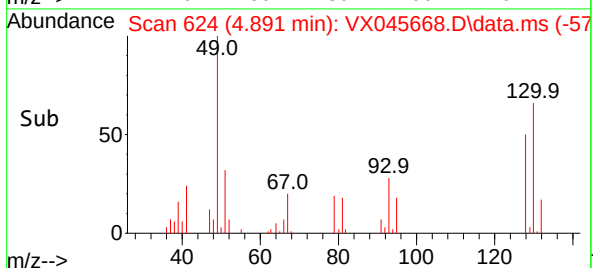
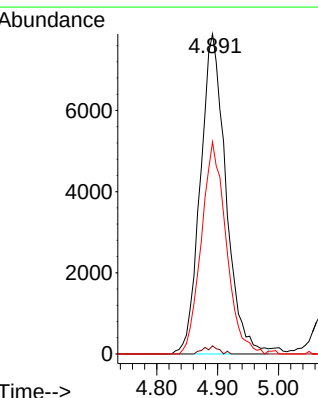
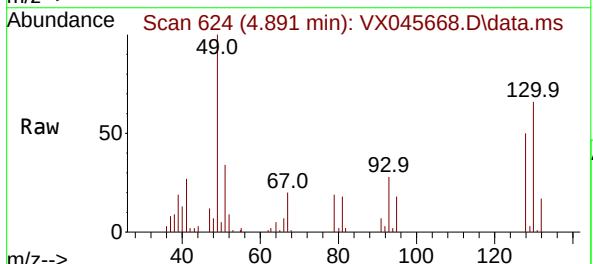
Tgt Ion: 49 Resp: 22944

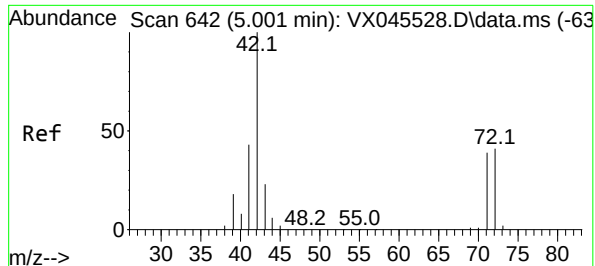
Ion Ratio Lower Upper

49 100

129 1.5 0.0 3.8

130 64.3 54.6 81.8





#29

Tetrahydrofuran

Concen: 101.509 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

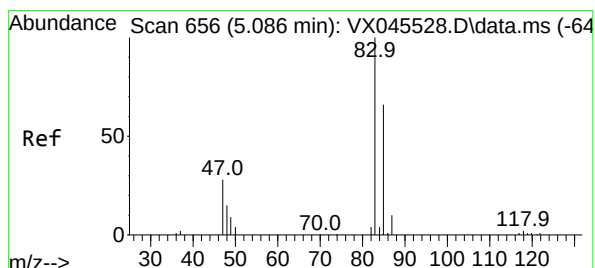
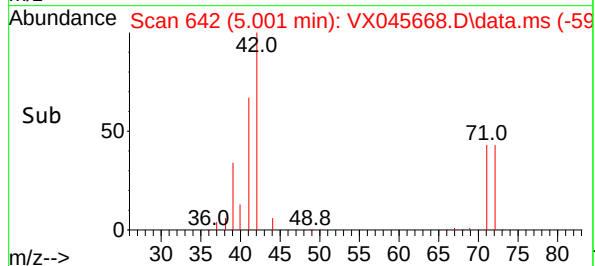
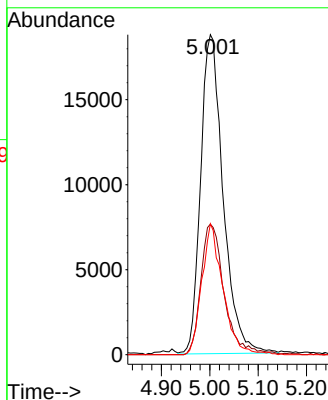
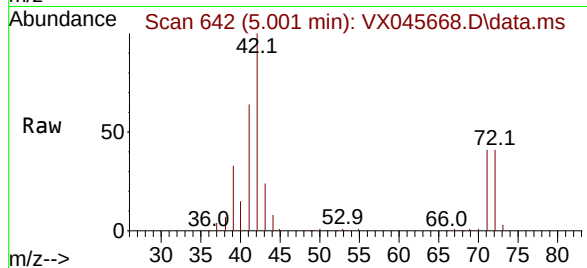
Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion:	42	Resp:	60710
Ion	Ratio	Lower	Upper
42	100		
72	42.4	33.4	50.0
71	38.7	31.4	47.0

Manual Integrations
APPROVEDReviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

#30

Chloroform

Concen: 20.818 ug/l

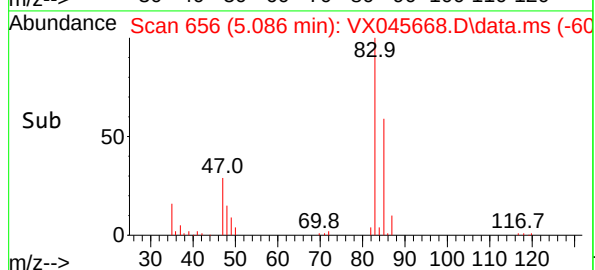
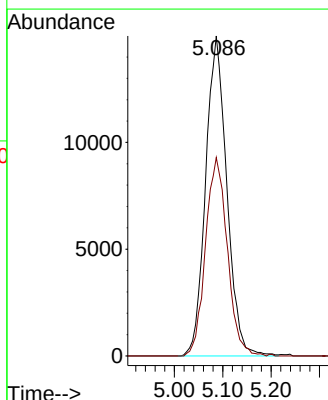
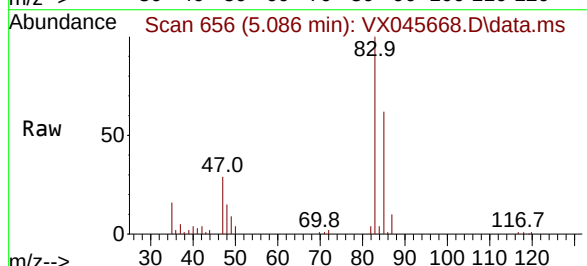
RT: 5.086 min Scan# 656

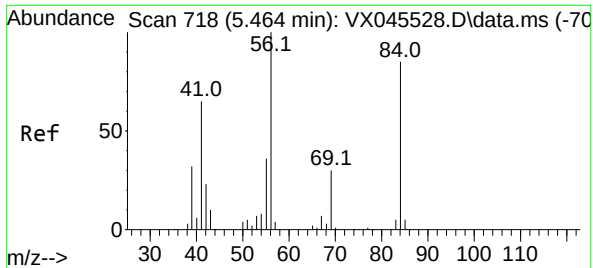
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	83	Resp:	45617
Ion	Ratio	Lower	Upper
83	100		
85	62.0	52.8	79.2





#31

Cyclohexane

Concen: 19.636 ug/l

RT: 5.464 min Scan# 718

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 56 Resp: 3696

Ion Ratio Lower Upper

56 100

69 29.6 23.6 35.4

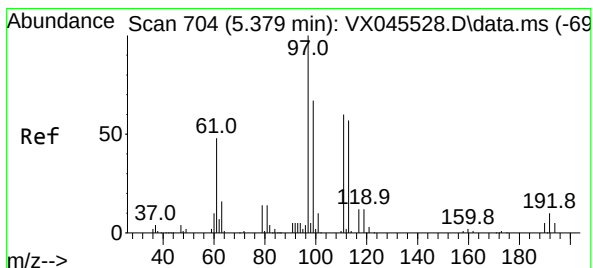
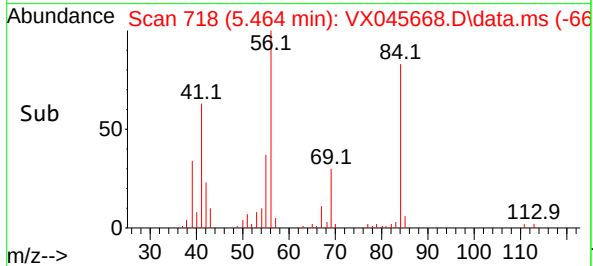
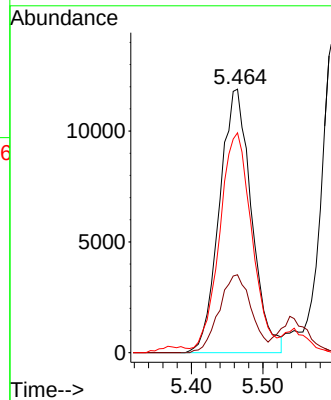
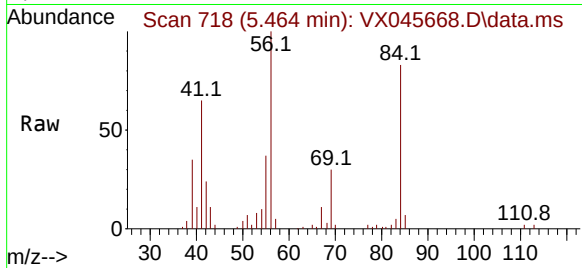
84 81.2 67.7 101.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#32

1,1,1-Trichloroethane

Concen: 20.330 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

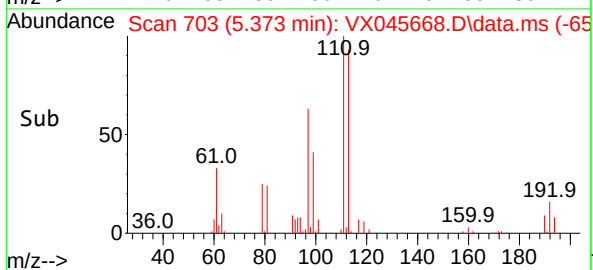
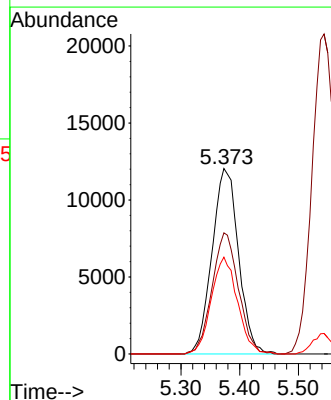
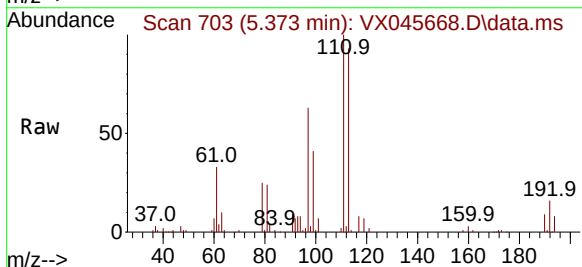
Tgt Ion: 97 Resp: 37694

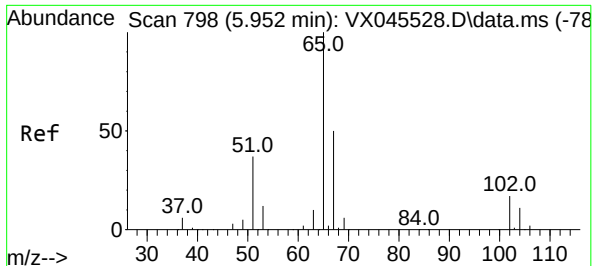
Ion Ratio Lower Upper

97 100

99 65.1 51.7 77.5

61 51.7 41.0 61.4





#33

1,2-Dichloroethane-d4

Concen: 54.134 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 65 Resp: 8308

Ion Ratio Lower Upper

65 100

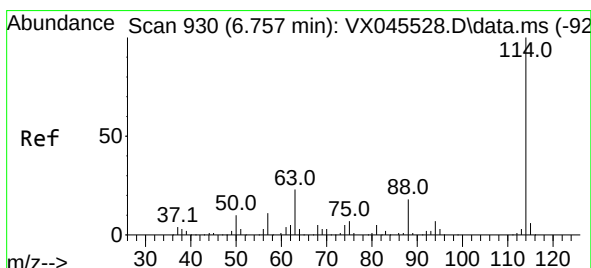
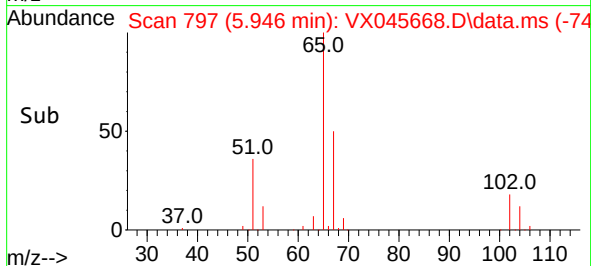
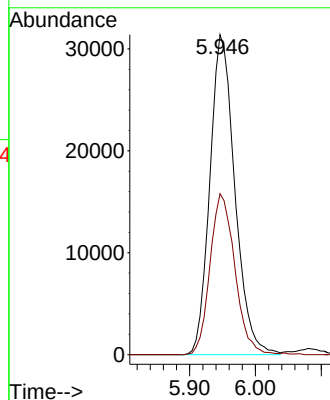
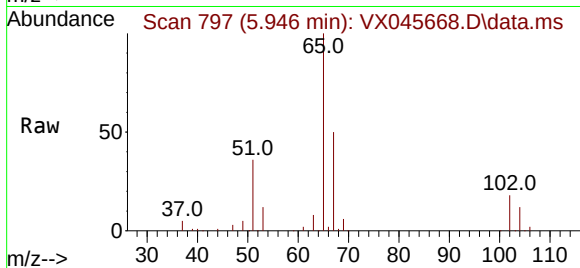
67 50.0 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

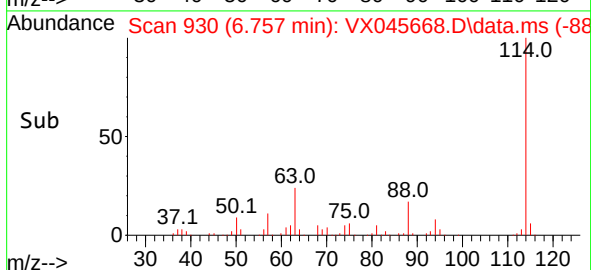
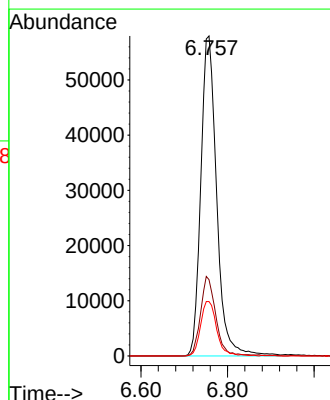
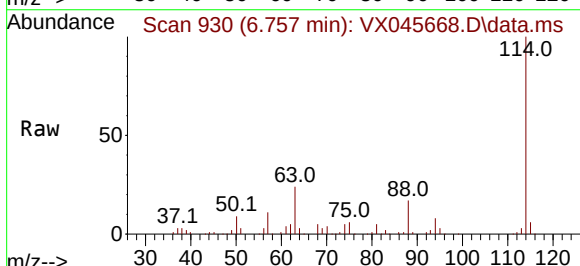
Tgt Ion:114 Resp: 147335

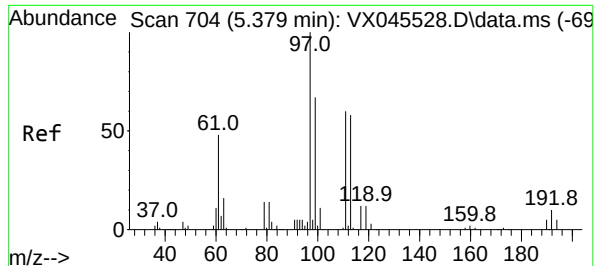
Ion Ratio Lower Upper

114 100

63 23.9 0.0 46.8

88 17.0 0.0 35.4





#35

Dibromofluoromethane

Concen: 53.786 ug/l

RT: 5.379 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

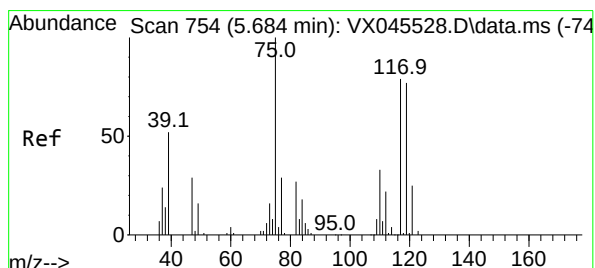
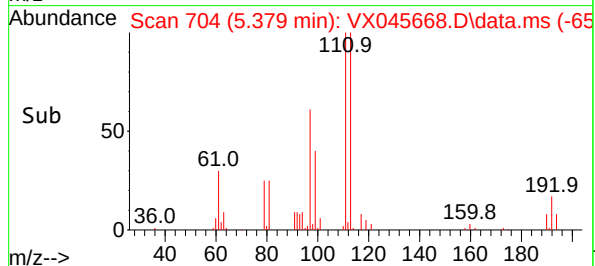
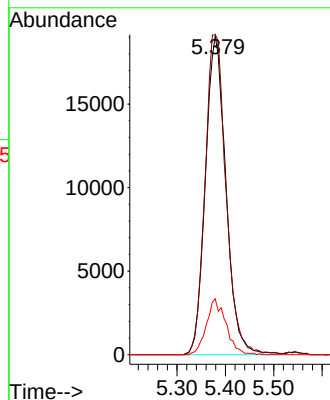
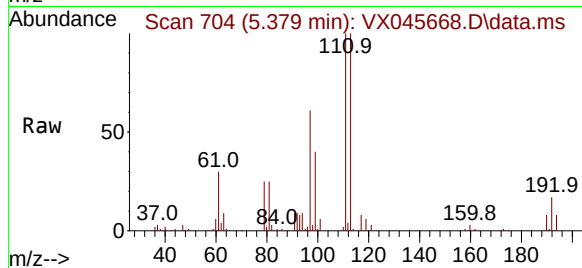
VX0409WBSD01

Tgt Ion:	113	Resp:	5622
Ion	Ratio	Lower	Upper
113	100		
111	102.7	81.8	122.6
192	16.7	13.8	20.6

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#36

1,1-Dichloropropene

Concen: 20.666 ug/l

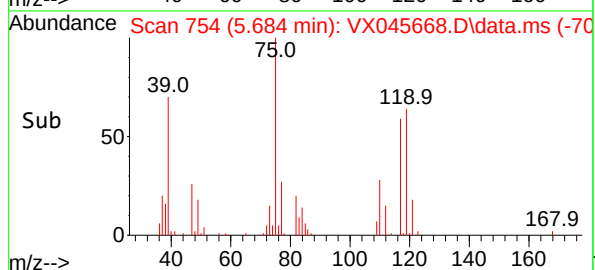
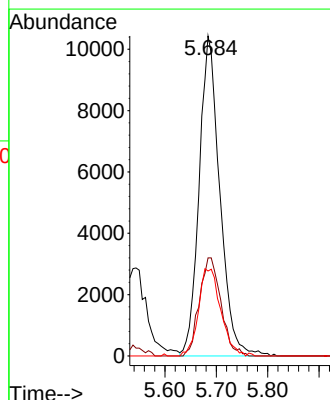
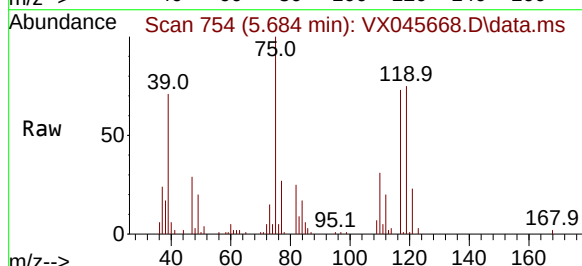
RT: 5.684 min Scan# 754

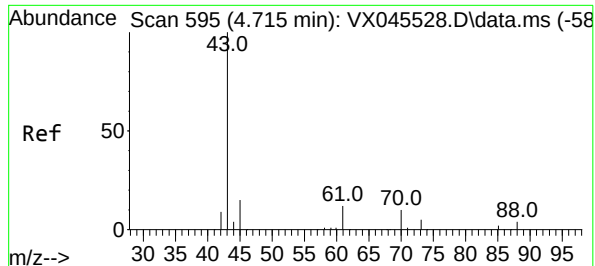
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	75	Resp:	29168
Ion	Ratio	Lower	Upper
75	100		
110	32.0	16.9	50.6
77	29.3	25.0	37.4





#37

Ethyl Acetate

Concen: 19.826 ug/l

RT: 4.715 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

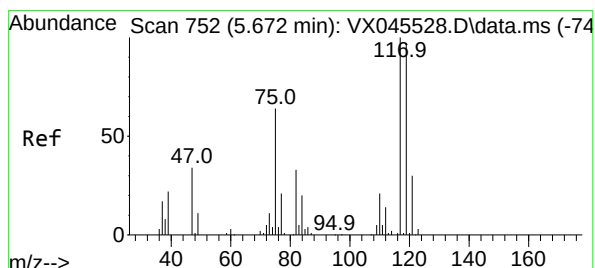
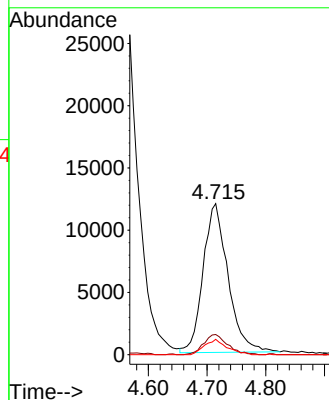
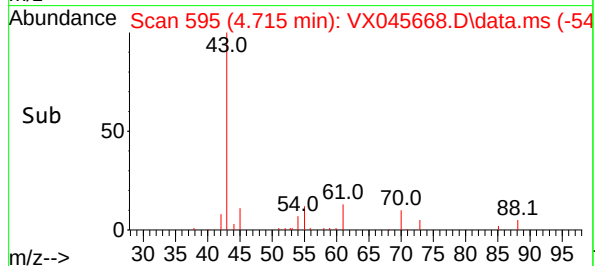
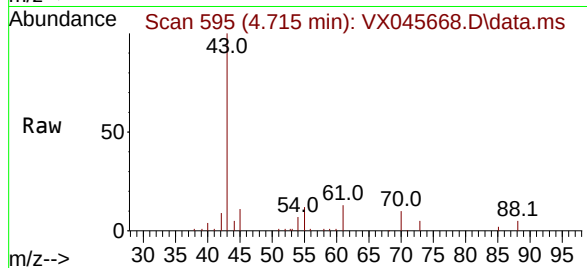
VX0409WBSD01

Tgt Ion:	43	Resp:	3526
Ion Ratio	Lower	Upper	
43	100		
61	13.0	9.9	14.9
70	9.3	7.5	11.3

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#38

Carbon Tetrachloride

Concen: 21.177 ug/l

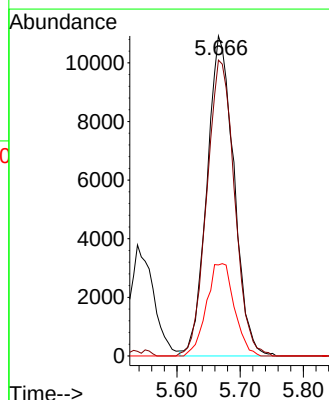
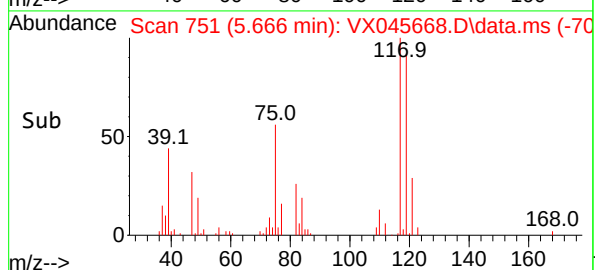
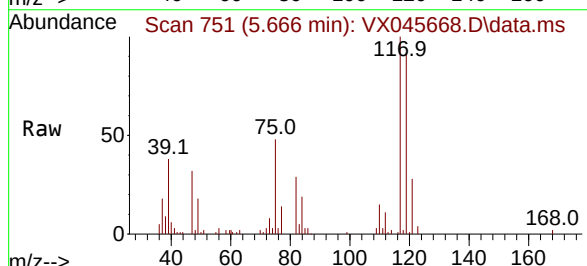
RT: 5.666 min Scan# 751

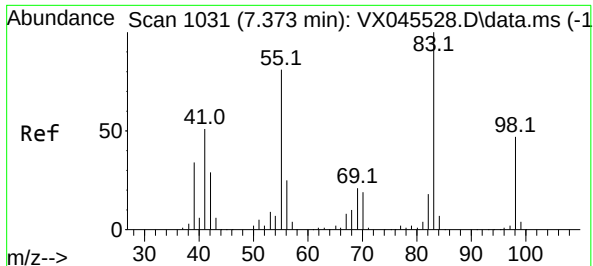
Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	117	Resp:	32304
Ion Ratio	Lower	Upper	
117	100		
119	92.5	76.9	115.3
121	28.4	24.2	36.2





#39

Methylcyclohexane

Concen: 20.914 ug/l

RT: 7.373 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

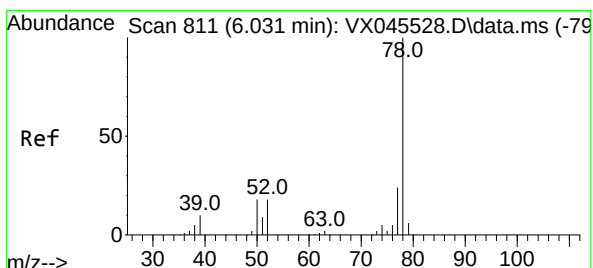
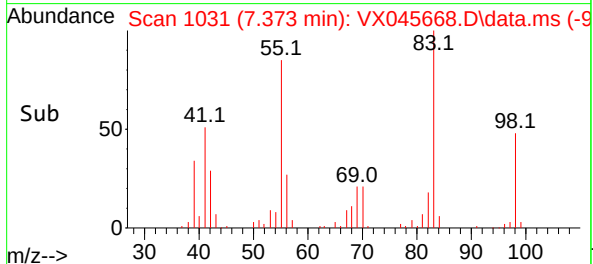
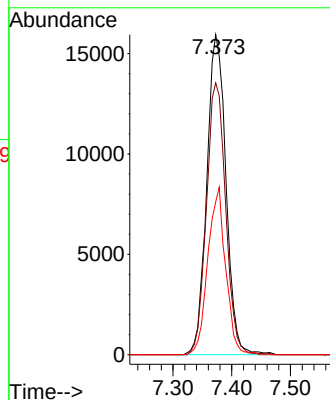
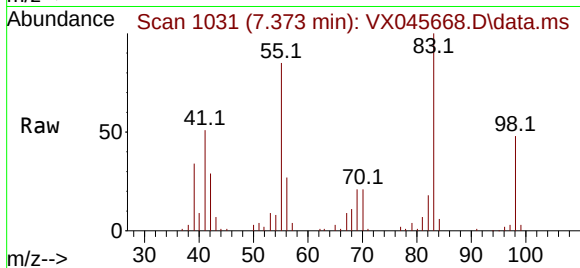
VX0409WBSD01

Tgt Ion:	83	Resp:	36184
Ion	Ratio	Lower	Upper
83	100		
55	85.0	64.9	97.3
98	47.8	37.4	56.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#40

Benzene

Concen: 20.434 ug/l

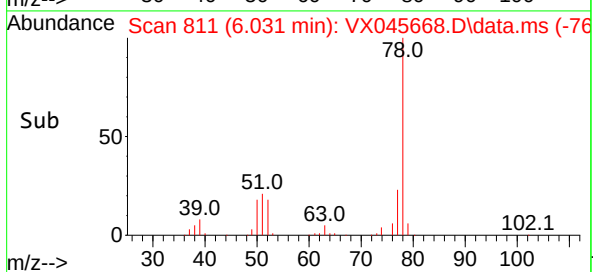
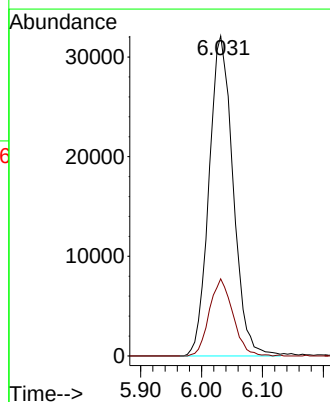
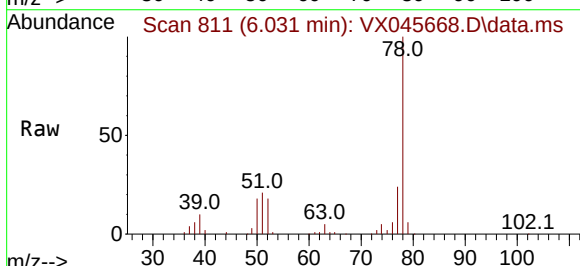
RT: 6.031 min Scan# 811

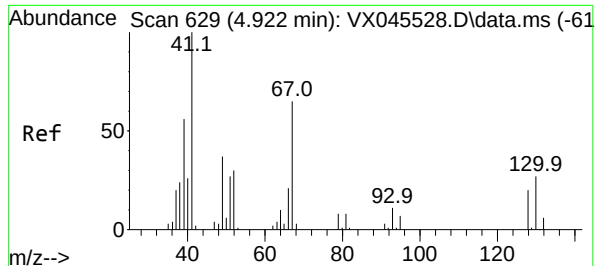
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	78	Resp:	88084
Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.0	28.6





#41

Methacrylonitrile

Concen: 21.231 ug/l

RT: 4.916 min Scan# 61

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 41 Resp: 1992

Ion Ratio Lower Upper

41 100

39 58.5 47.0 70.6

67 69.6 53.2 79.8

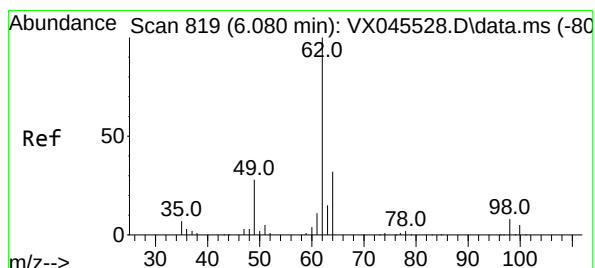
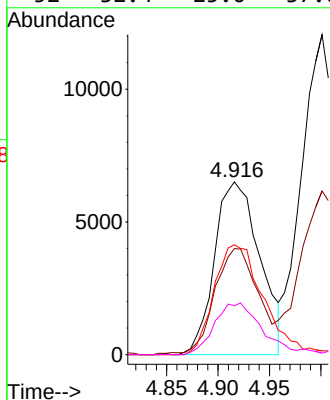
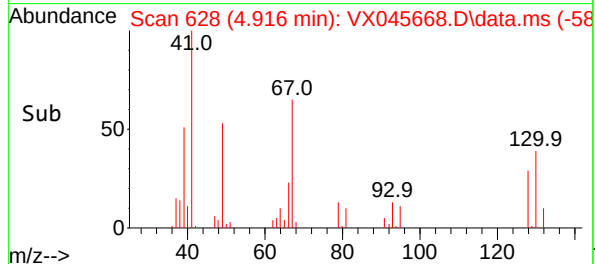
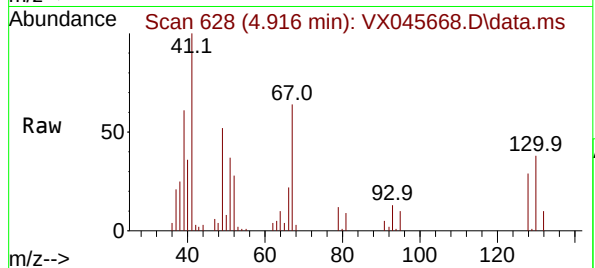
52 32.4 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#42

1,2-Dichloroethane

Concen: 21.527 ug/l

RT: 6.080 min Scan# 819

Delta R.T. 0.000 min

Lab File: VX045668.D

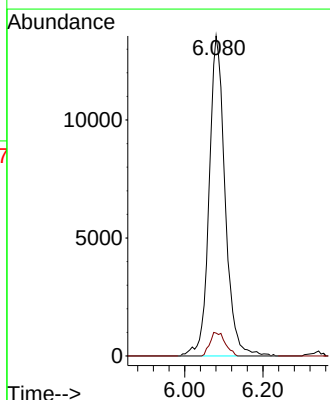
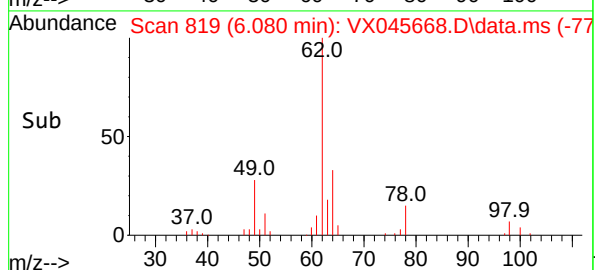
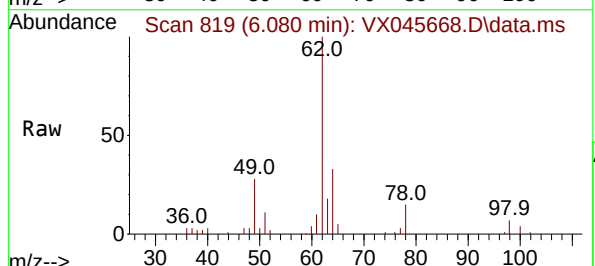
Acq: 09 Apr 2025 12:14

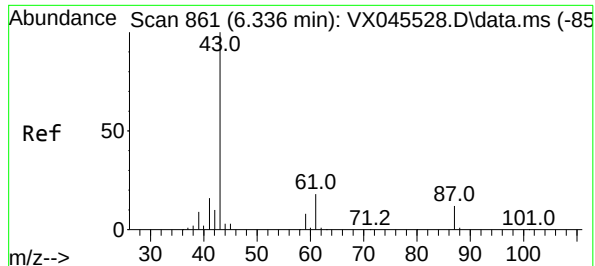
Tgt Ion: 62 Resp: 38327

Ion Ratio Lower Upper

62 100

98 7.0 0.0 15.2





#43

Isopropyl Acetate

Concen: 21.025 ug/l

RT: 6.336 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

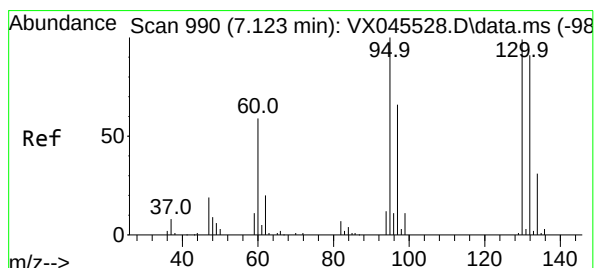
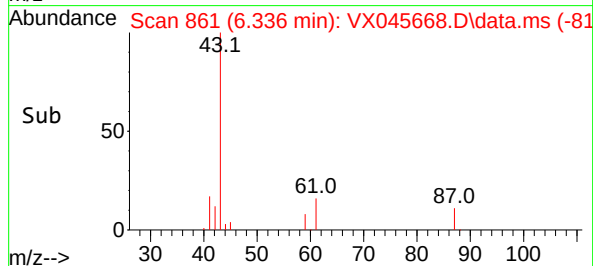
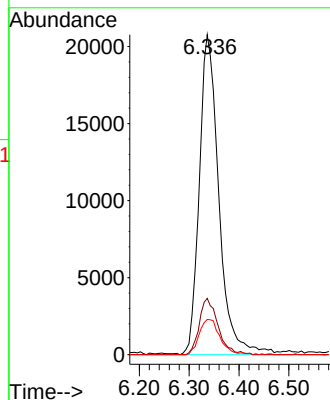
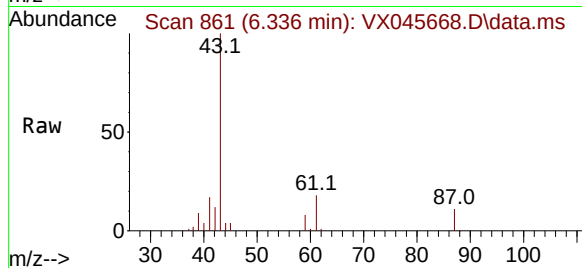
VX0409WBSD01

Tgt Ion:	43	Resp:	5668
Ion	Ratio	Lower	Upper
43	100		
61	16.9	14.1	21.1
87	11.7	9.2	13.8

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#44

Trichloroethene

Concen: 20.359 ug/l

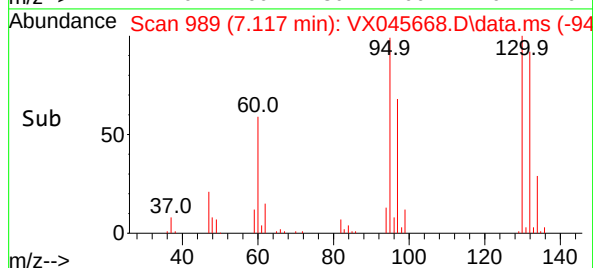
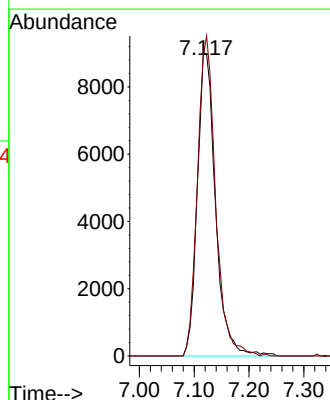
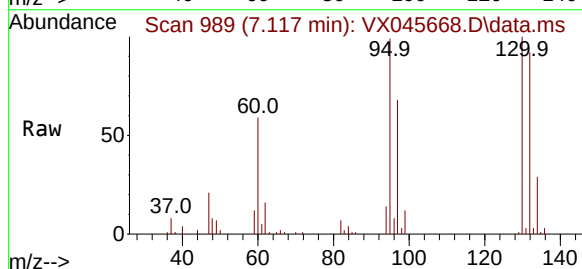
RT: 7.117 min Scan# 989

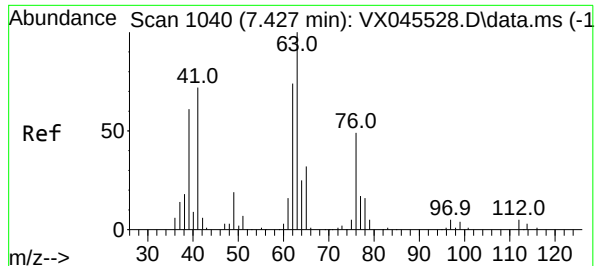
Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	130	Resp:	20859
Ion	Ratio	Lower	Upper
130	100		
95	99.0	0.0	202.0





#45

1,2-Dichloropropane

Concen: 20.787 ug/l

RT: 7.421 min Scan# 1039

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 63 Resp: 2235

Ion Ratio Lower Upper

63 100

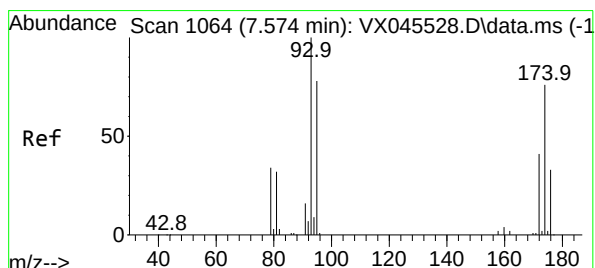
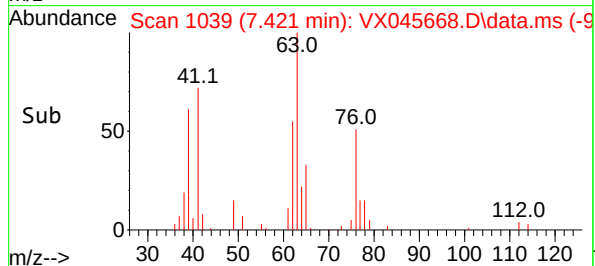
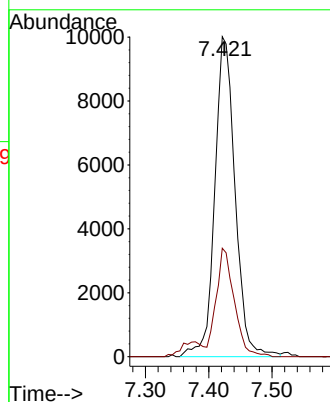
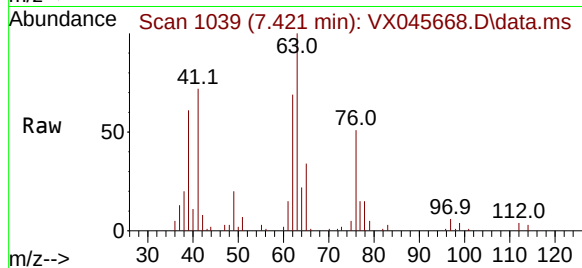
65 33.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#46

Dibromomethane

Concen: 20.962 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. 0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

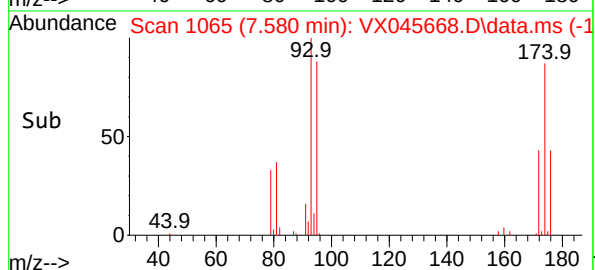
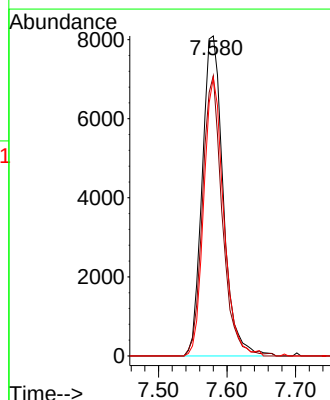
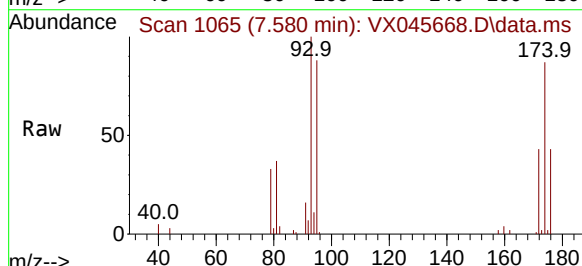
Tgt Ion: 93 Resp: 17307

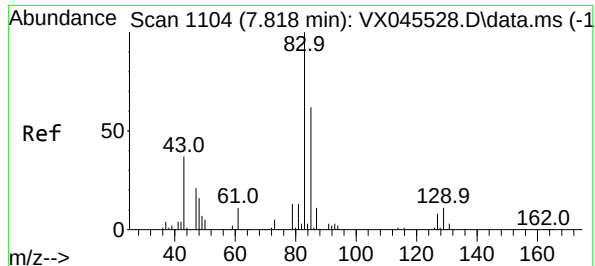
Ion Ratio Lower Upper

93 100

95 82.0 64.8 97.2

174 82.1 65.4 98.0





#47

Bromodichloromethane

Concen: 21.045 ug/l

RT: 7.818 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

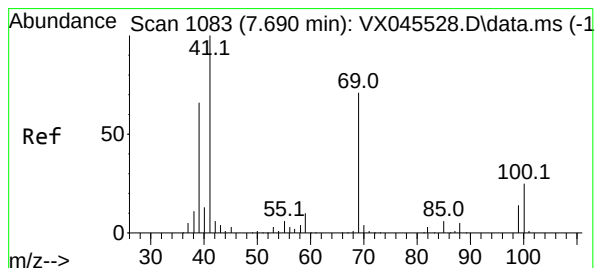
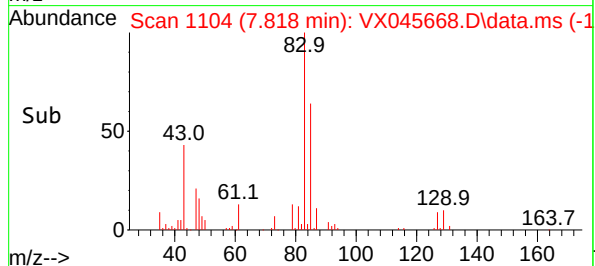
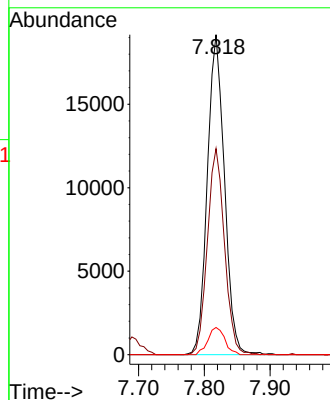
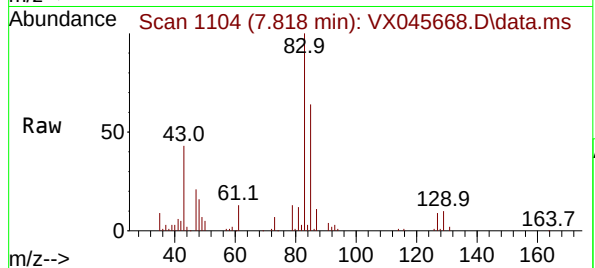
Tgt Ion:	83	Resp:	3469
Ion	Ratio	Lower	Upper
83	100		
85	64.4	49.7	74.5
127	8.5	6.1	9.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#48

Methyl methacrylate

Concen: 21.165 ug/l

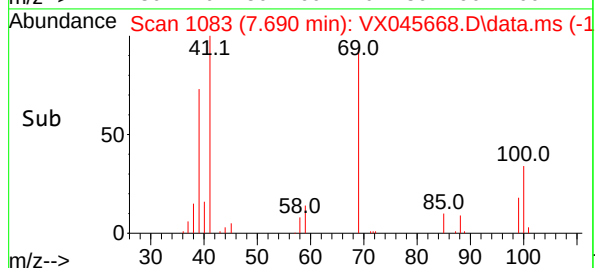
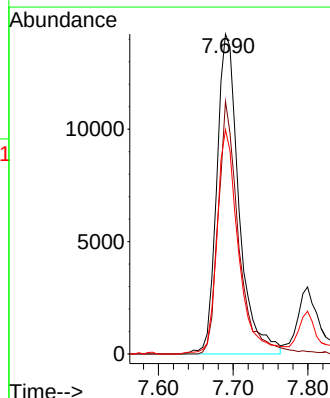
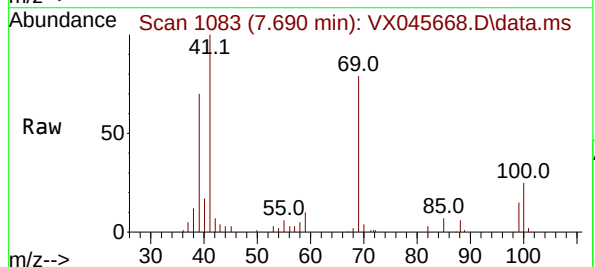
RT: 7.690 min Scan# 1083

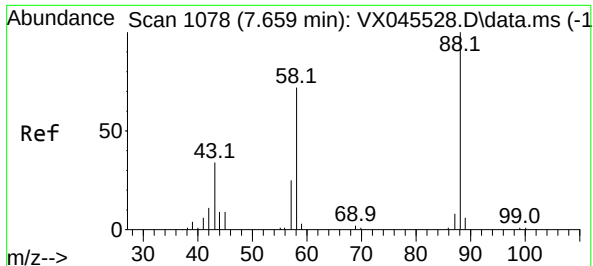
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	41	Resp:	29460
Ion	Ratio	Lower	Upper
41	100		
69	73.1	58.2	87.2
39	67.9	53.6	80.4





#49

1,4-Dioxane

Concen: 477.420 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

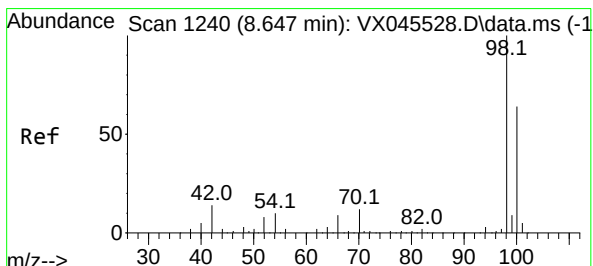
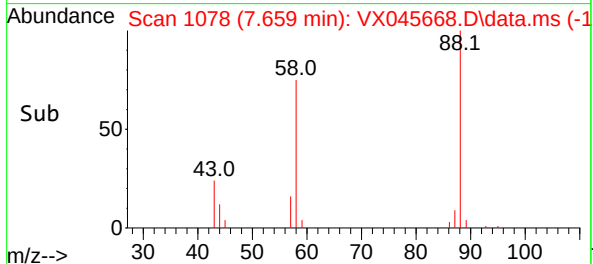
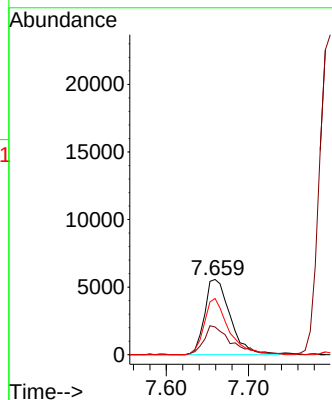
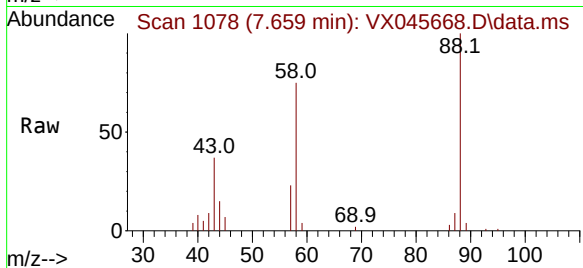
VX0409WBSD01

Tgt Ion:	88	Resp:	1202
Ion	Ratio	Lower	Upper
88	100		
43	41.7	32.2	48.4
58	71.1	58.6	88.0

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#50

Toluene-d8

Concen: 53.066 ug/l

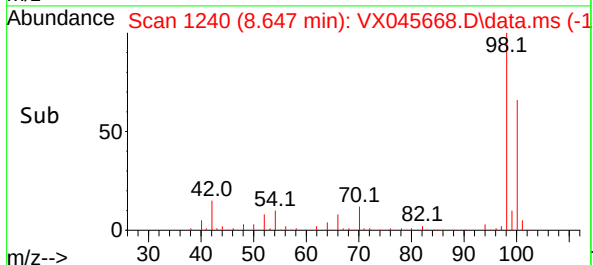
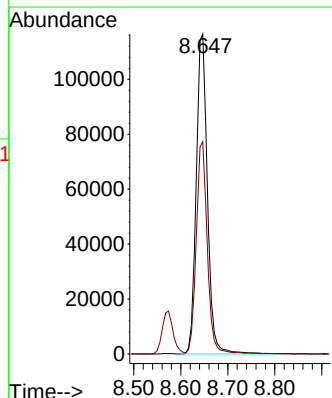
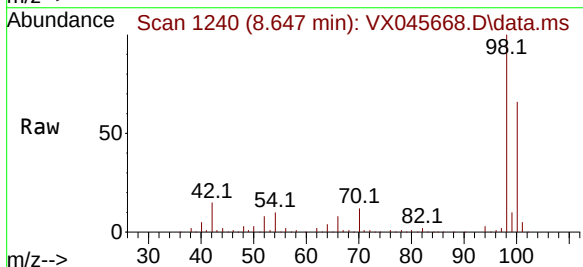
RT: 8.647 min Scan# 1240

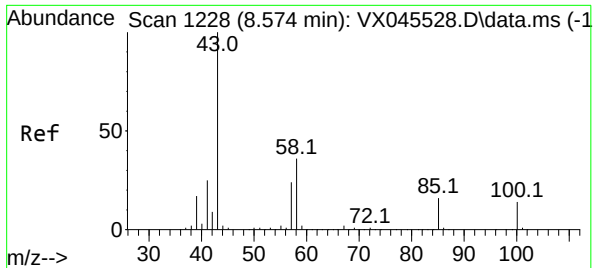
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

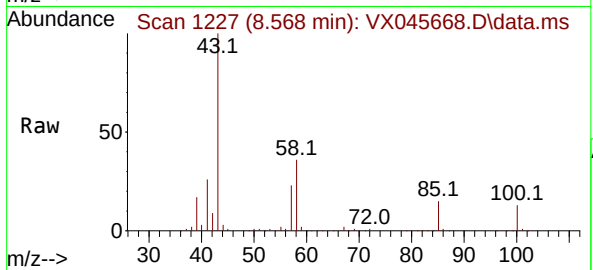
Tgt Ion:	98	Resp:	193619
Ion	Ratio	Lower	Upper
98	100		
100	65.3	52.2	78.4





#51
4-Methyl-2-Pentanone
Concen: 108.215 ug/l
RT: 8.568 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

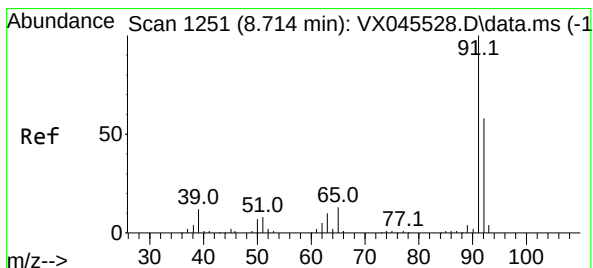
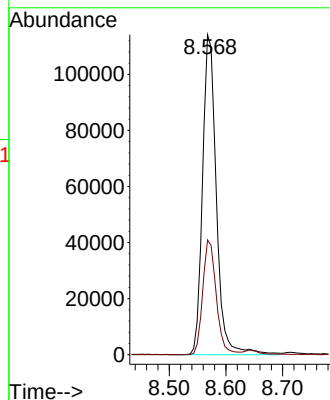
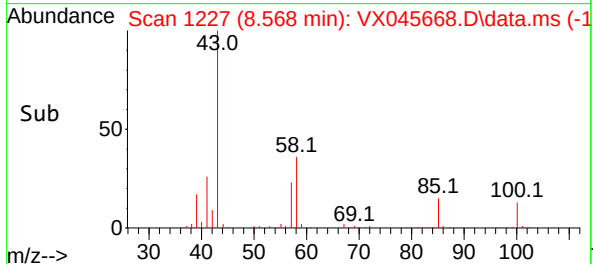
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



Tgt Ion: 43 Resp: 193392
Ion Ratio Lower Upper
43 100
58 35.2 28.5 42.7

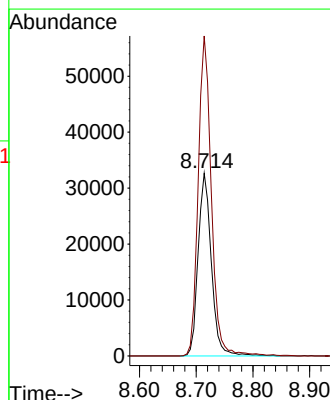
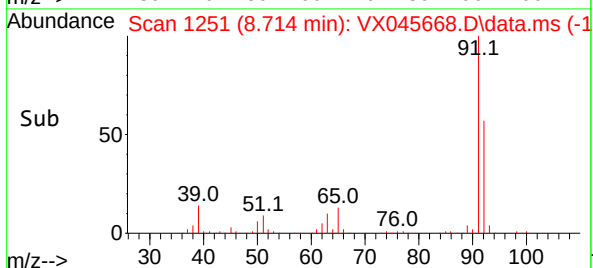
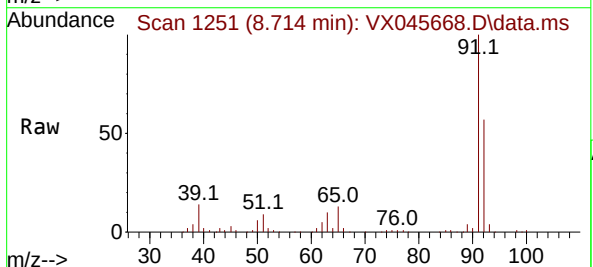
Manual Integrations
APPROVED

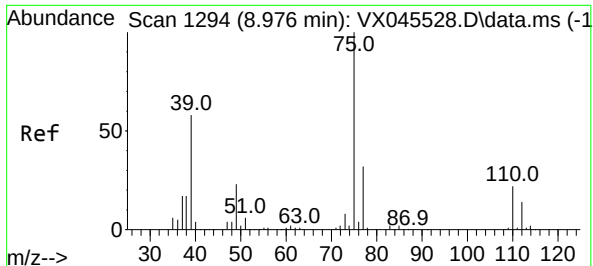
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#52
Toluene
Concen: 20.338 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion: 92 Resp: 53050
Ion Ratio Lower Upper
92 100
91 173.3 138.7 208.1





#53

t-1,3-Dichloropropene

Concen: 19.284 ug/l

RT: 8.976 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 75 Resp: 28240

Ion Ratio Lower Upper

75 100

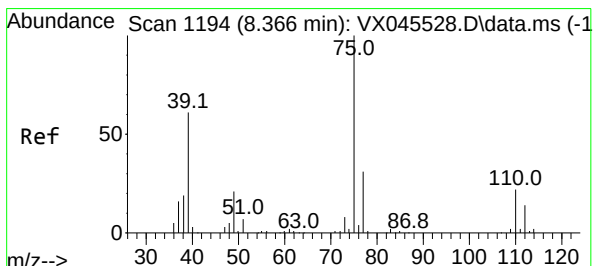
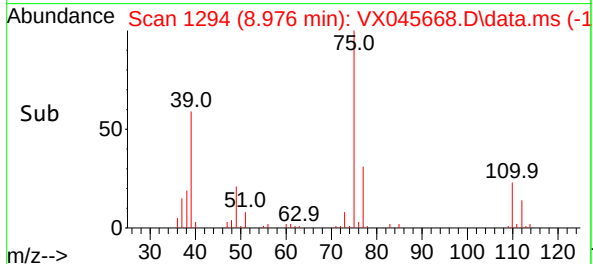
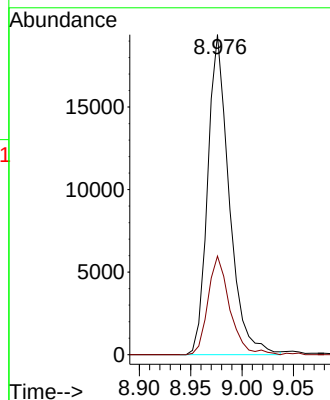
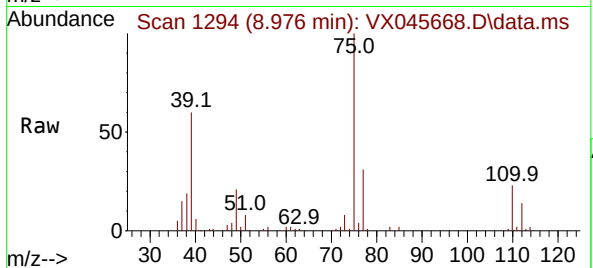
77 30.8 25.4 38.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#54

cis-1,3-Dichloropropene

Concen: 21.791 ug/l

RT: 8.360 min Scan# 1193

Delta R.T. -0.006 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

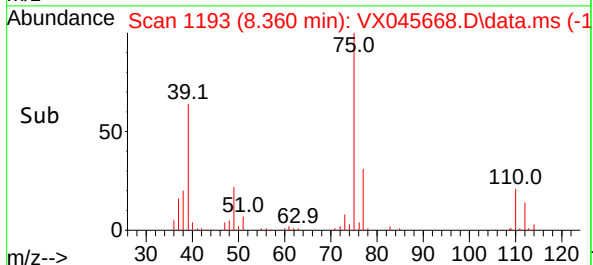
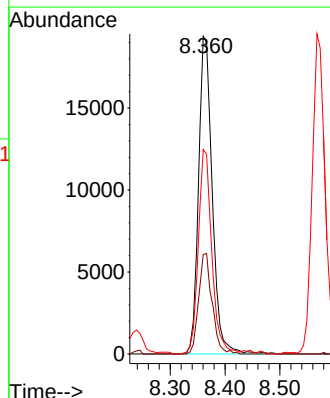
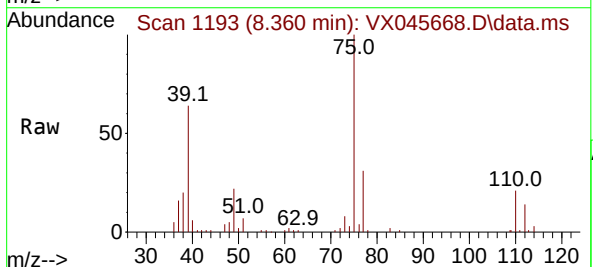
Tgt Ion: 75 Resp: 33764

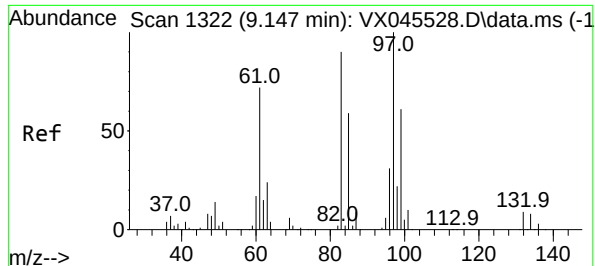
Ion Ratio Lower Upper

75 100

77 31.3 24.6 36.8

39 64.3 48.4 72.6





#55

1,1,2-Trichloroethane

Concen: 21.014 ug/l

RT: 9.147 min Scan# 1322

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 97 Resp: 2184

Ion Ratio Lower Upper

97 100

83 90.1 71.8 107.8

85 56.5 47.0 70.6

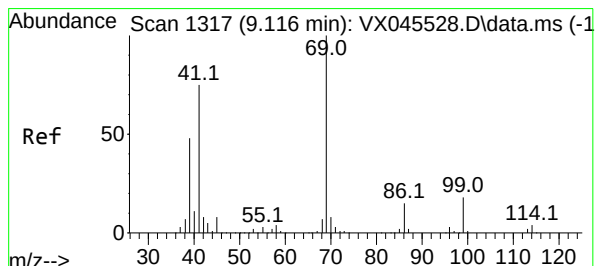
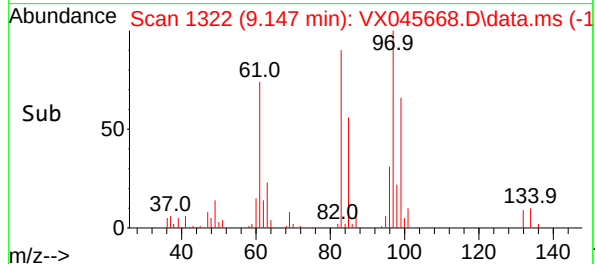
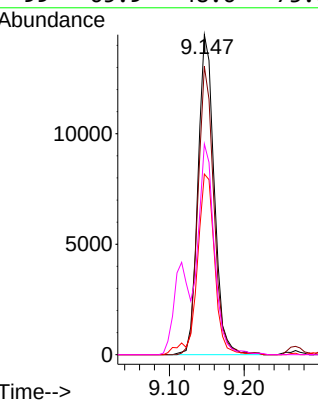
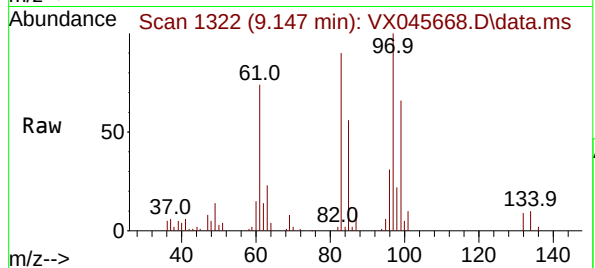
99 65.9 48.6 73.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#56

Ethyl methacrylate

Concen: 21.299 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

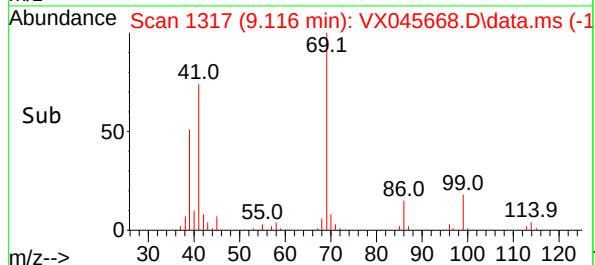
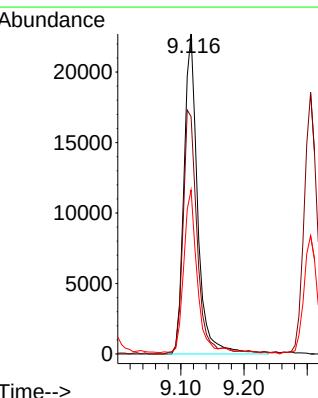
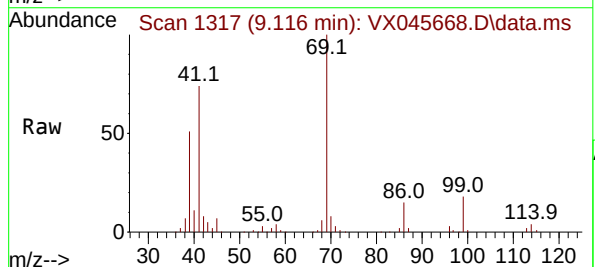
Tgt Ion: 69 Resp: 34262

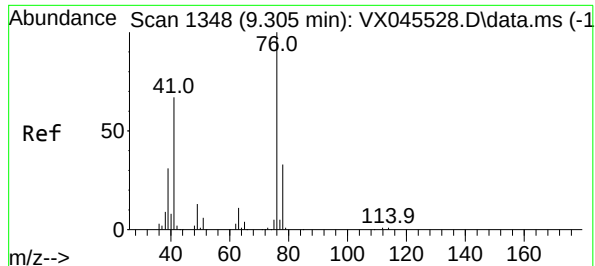
Ion Ratio Lower Upper

69 100

41 78.1 61.3 91.9

39 50.2 40.2 60.2





#57

1,3-Dichloropropane

Concen: 21.151 ug/l

RT: 9.305 min Scan# 11348

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 76 Resp: 3828

Ion Ratio Lower Upper

76 100

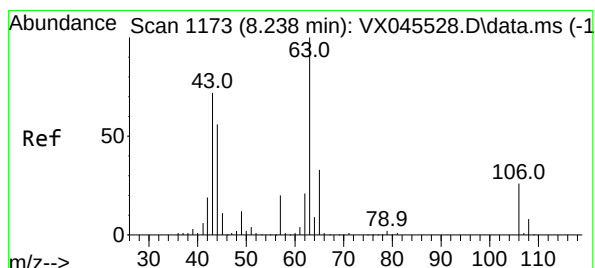
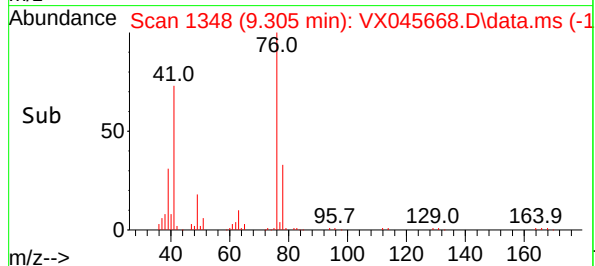
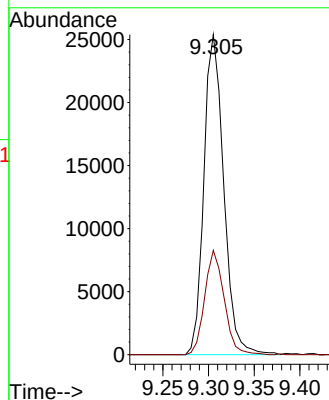
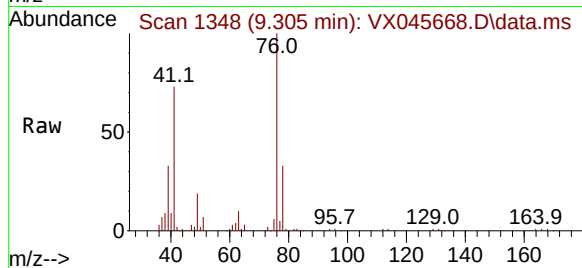
78 31.9 26.0 39.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#58

2-Chloroethyl Vinyl ether

Concen: 105.722 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. 0.000 min

Lab File: VX045668.D

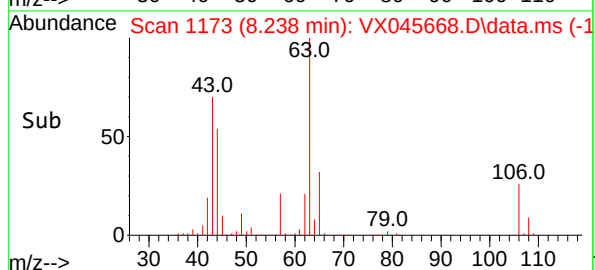
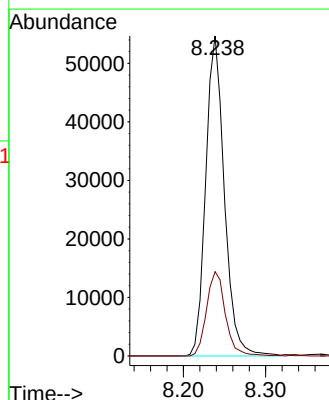
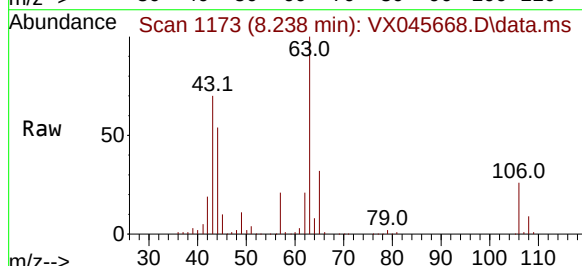
Acq: 09 Apr 2025 12:14

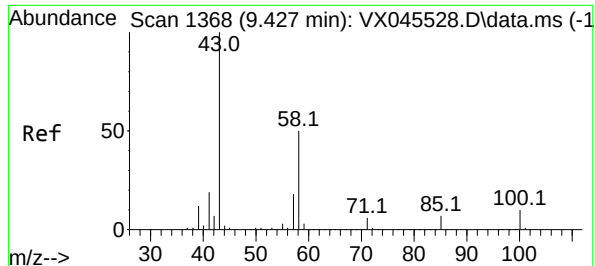
Tgt Ion: 63 Resp: 86030

Ion Ratio Lower Upper

63 100

106 26.7 21.0 31.6





#59

2-Hexanone

Concen: 108.828 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 43 Resp: 144024

Ion Ratio Lower Upper

43 100

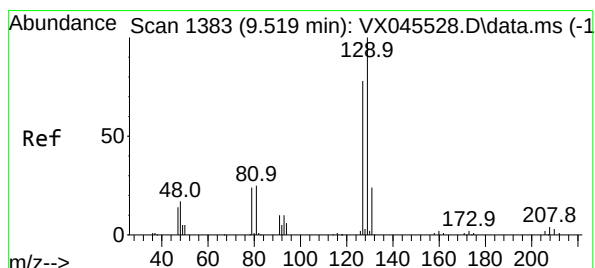
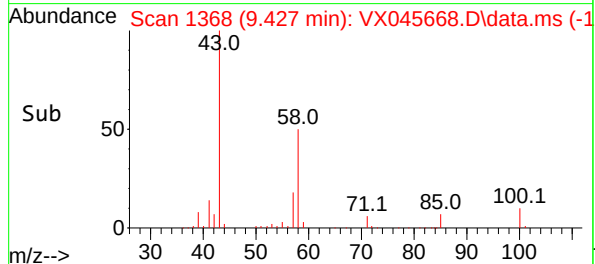
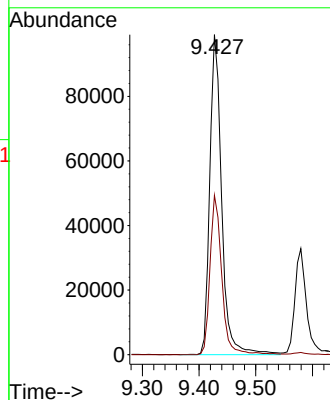
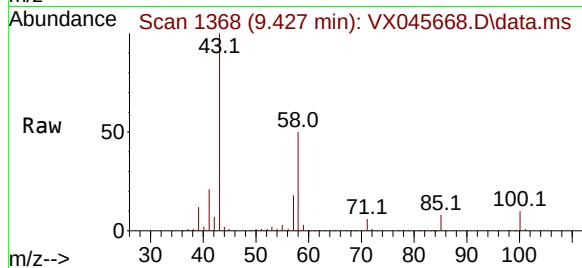
58 49.6 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#60

Dibromochloromethane

Concen: 21.090 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. 0.000 min

Lab File: VX045668.D

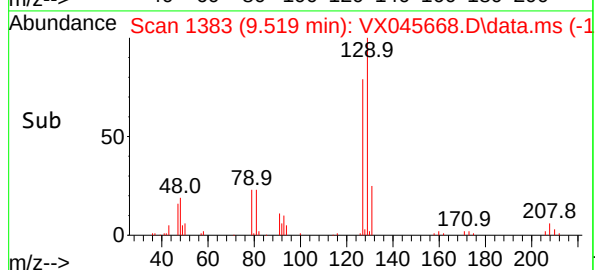
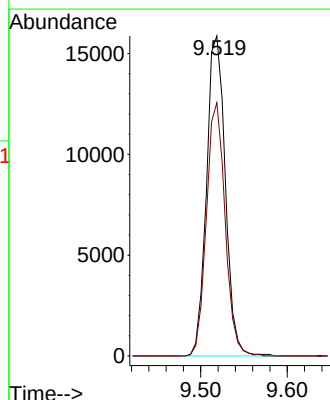
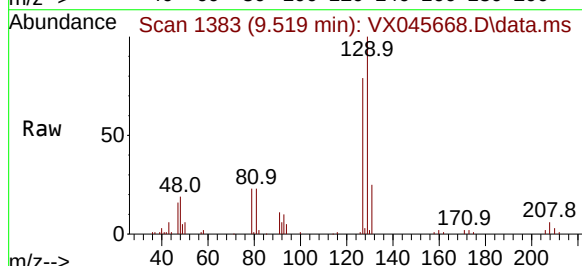
Acq: 09 Apr 2025 12:14

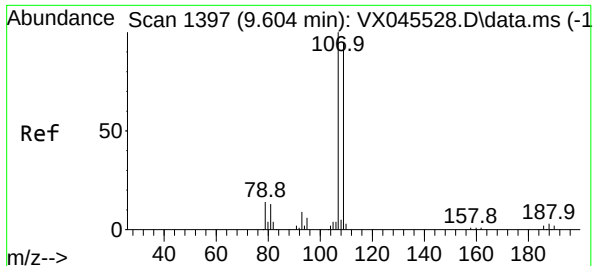
Tgt Ion:129 Resp: 23898

Ion Ratio Lower Upper

129 100

127 78.8 39.4 118.2





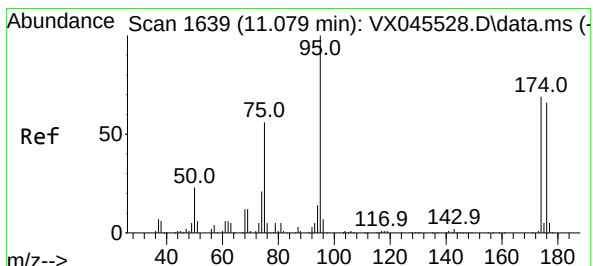
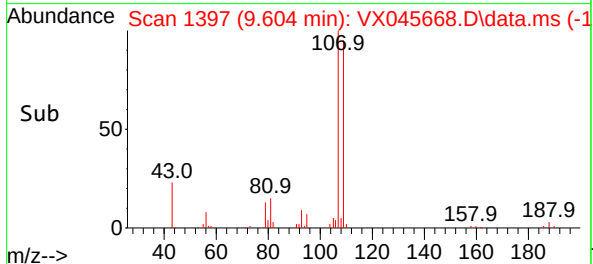
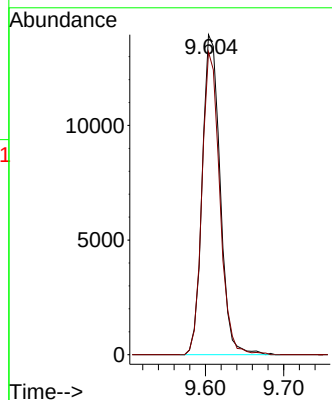
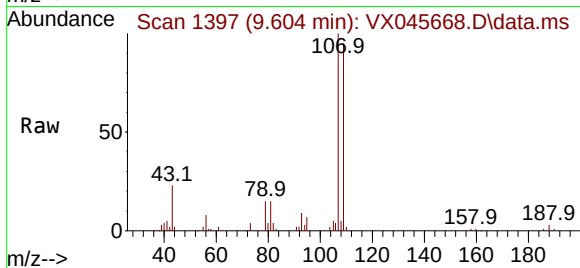
#61
1,2-Dibromoethane
Concen: 20.947 ug/l
RT: 9.604 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion:107 Resp: 22040
Ion Ratio Lower Upper
107 100
109 94.3 75.7 113.5

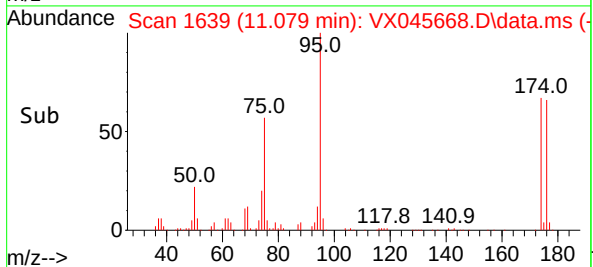
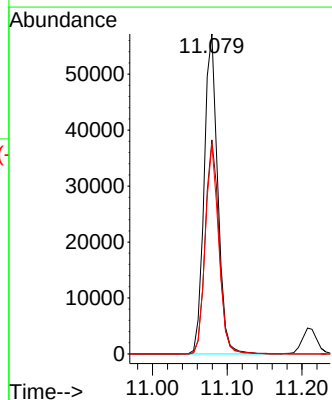
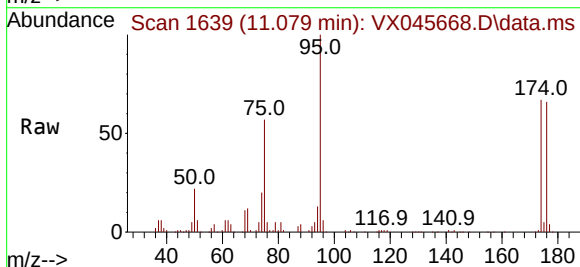
Manual Integrations
APPROVED

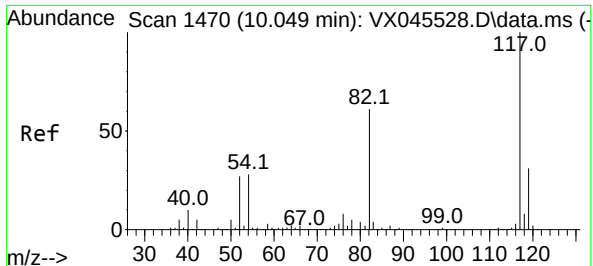
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#62
4-Bromofluorobenzene
Concen: 54.344 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion: 95 Resp: 72225
Ion Ratio Lower Upper
95 100
174 67.5 0.0 135.8
176 64.8 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.049 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion:117 Resp: 12939

Ion Ratio Lower Upper

117 100

82 62.6 49.2 73.8

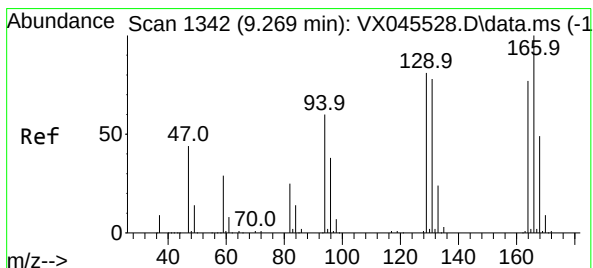
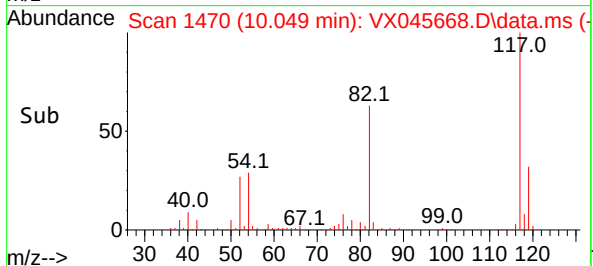
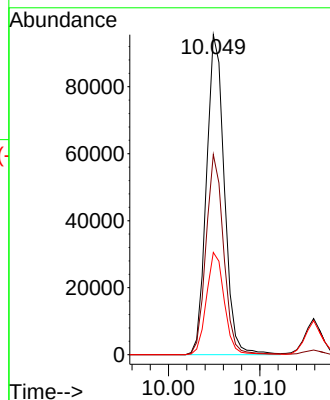
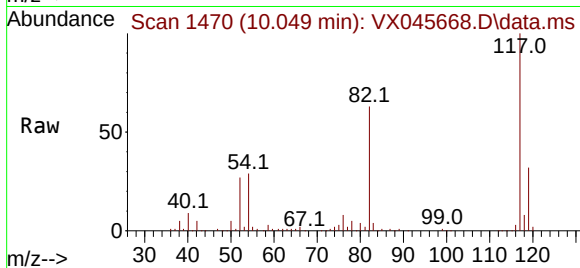
119 32.0 25.1 37.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#64

Tetrachloroethene

Concen: 22.004 ug/l

RT: 9.269 min Scan# 1342

Delta R.T. -0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:164 Resp: 20103

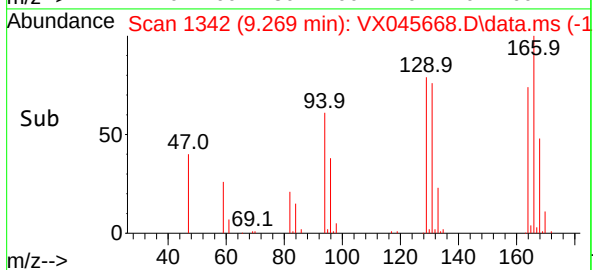
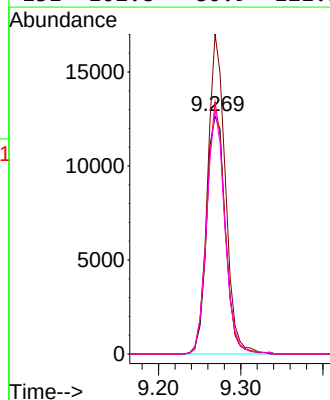
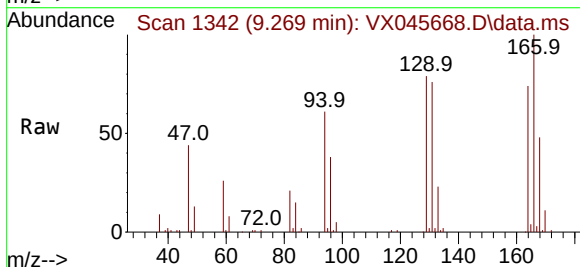
Ion Ratio Lower Upper

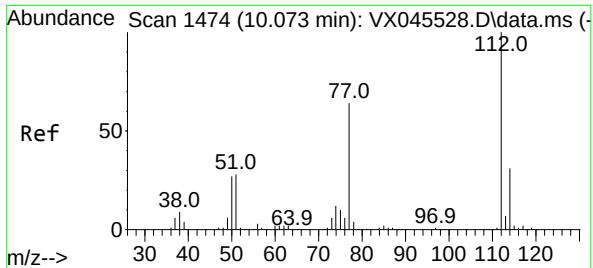
164 100

166 134.7 103.8 155.8

129 106.0 84.3 126.5

131 102.8 80.9 121.3





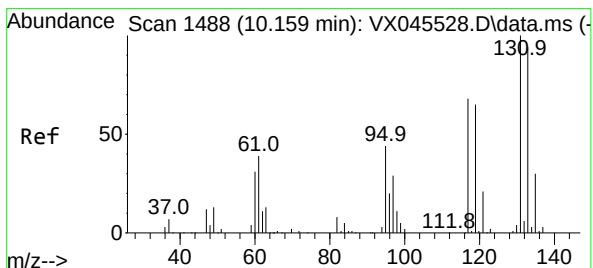
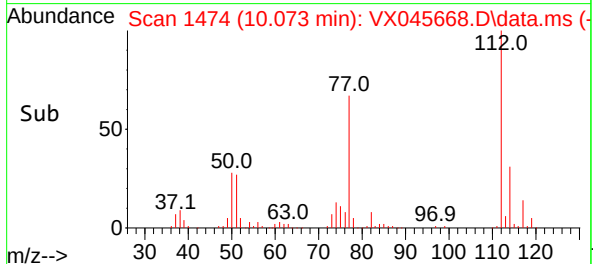
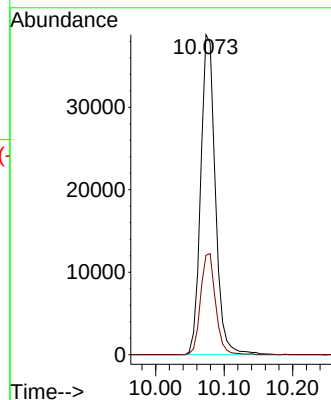
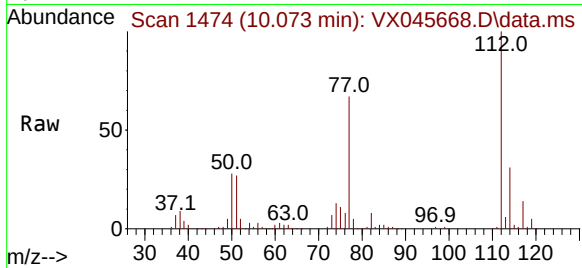
#65
Chlorobenzene
Concen: 20.898 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion:112 Resp: 57784
Ion Ratio Lower Upper
112 100
114 31.1 24.7 37.1

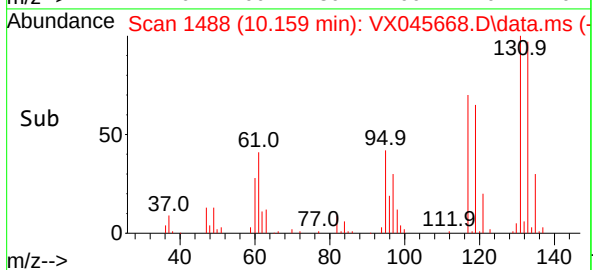
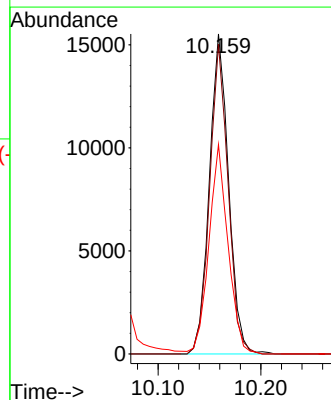
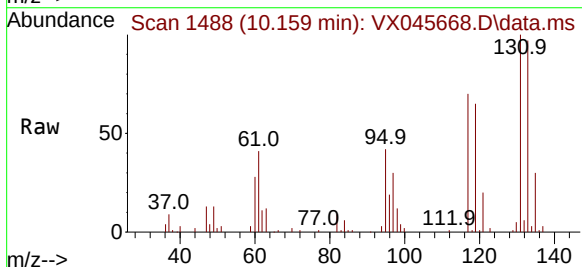
Manual Integrations
APPROVED

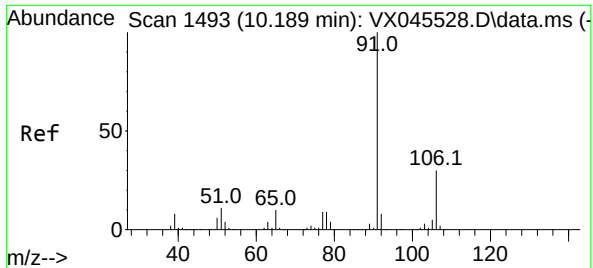
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 21.011 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion:131 Resp: 20170
Ion Ratio Lower Upper
131 100
133 93.1 47.5 142.5
119 65.1 32.9 98.6





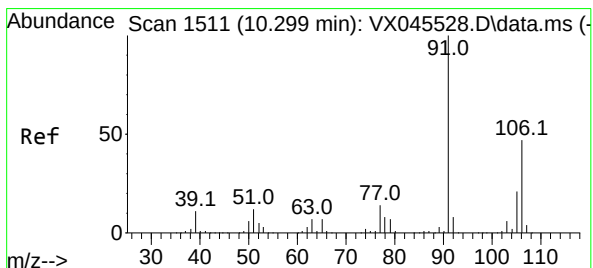
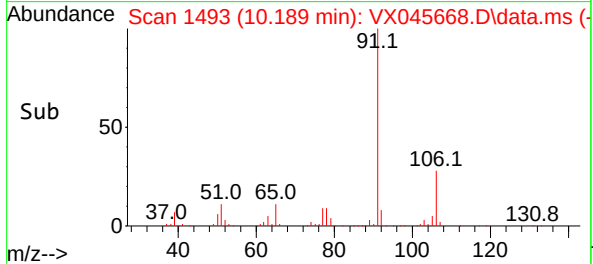
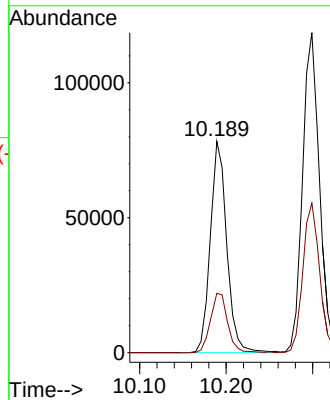
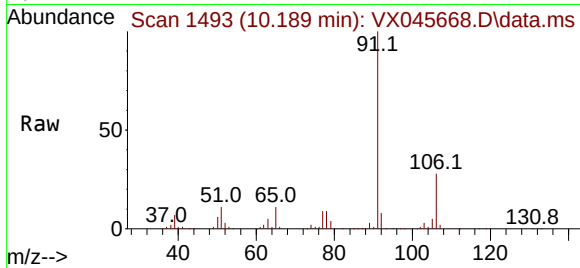
#67
Ethyl Benzene
Concen: 20.915 ug/l
RT: 10.189 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion: 91 Resp: 10357
Ion Ratio Lower Upper
91 100
106 28.1 23.7 35.5

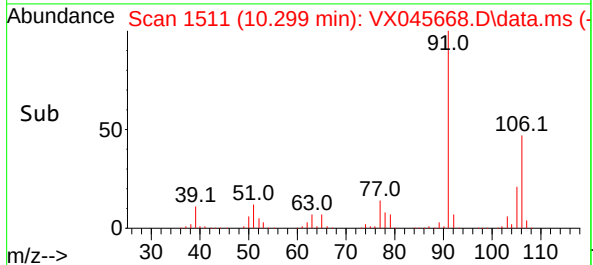
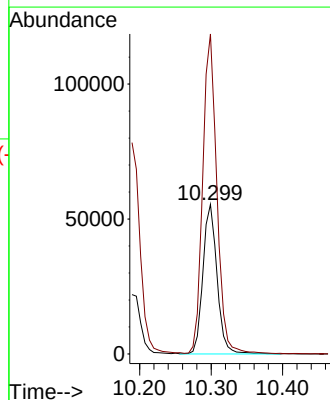
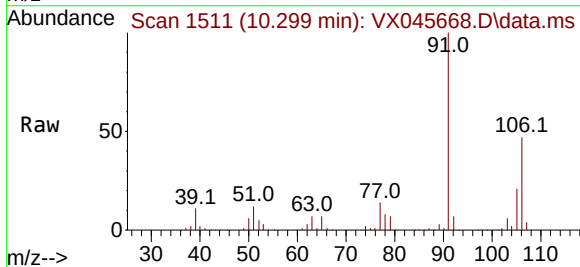
Manual Integrations
APPROVED

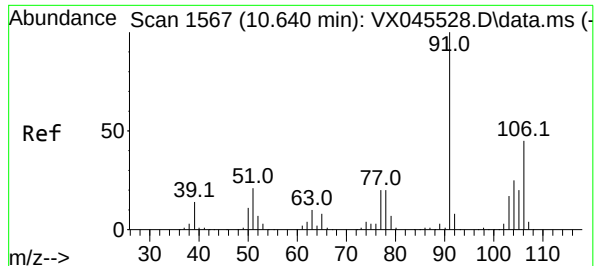
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#68
m/p-Xylenes
Concen: 42.342 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion:106 Resp: 76264
Ion Ratio Lower Upper
106 100
91 213.6 172.6 258.8





#69

o-Xylene

Concen: 20.748 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion:106 Resp: 36814

Ion Ratio Lower Upper

106 100

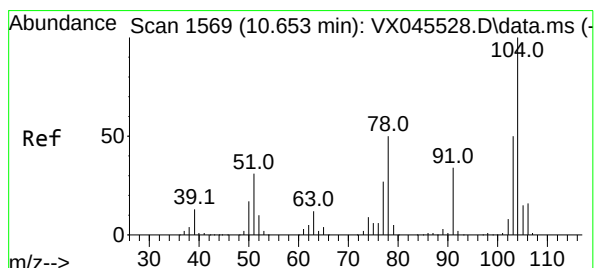
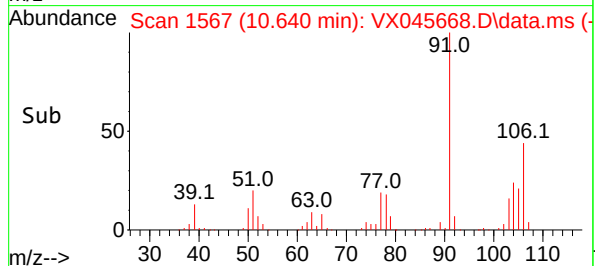
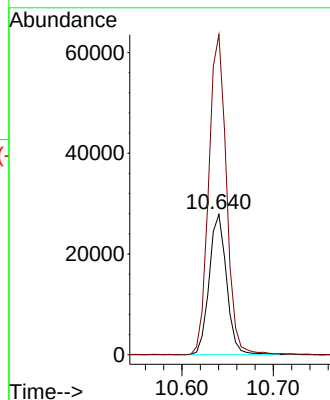
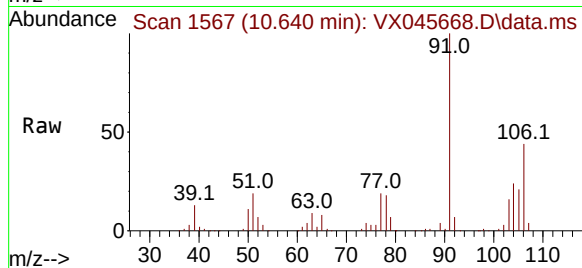
91 232.7 113.6 340.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#70

Styrene

Concen: 21.179 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

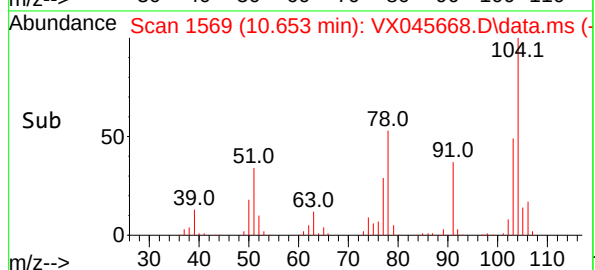
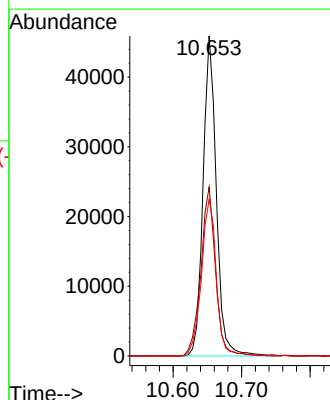
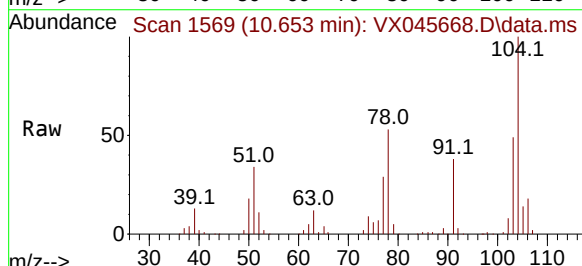
Tgt Ion:104 Resp: 62023

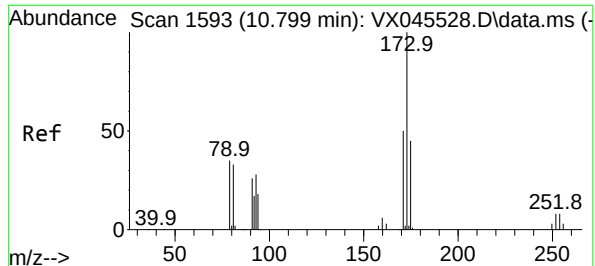
Ion Ratio Lower Upper

104 100

78 58.4 45.4 68.2

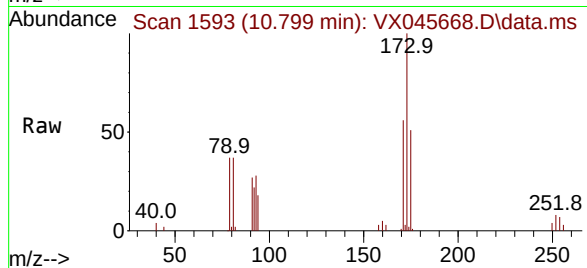
103 55.1 43.8 65.8





#71
Bromoform
Concen: 20.192 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

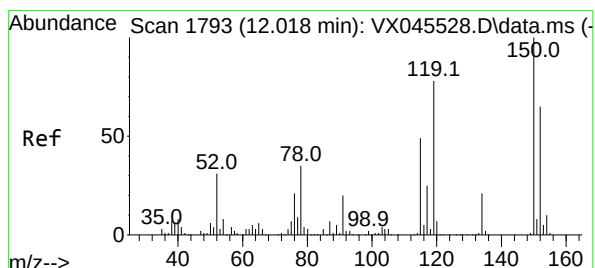
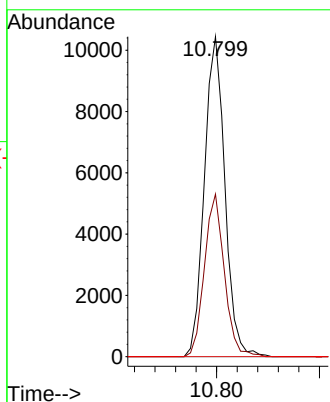
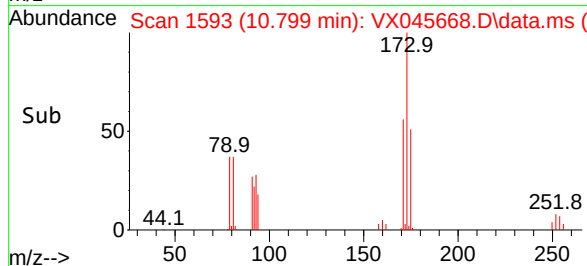
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



Tgt Ion:173 Resp: 1447
Ion Ratio Lower Upper
173 100
175 49.3 23.4 70.2
254 0.0 0.0 0.0

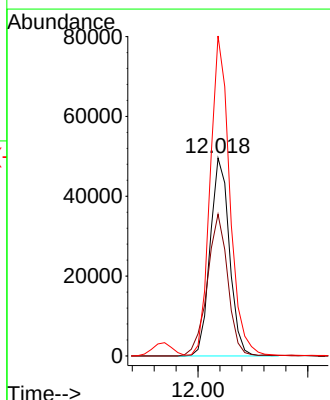
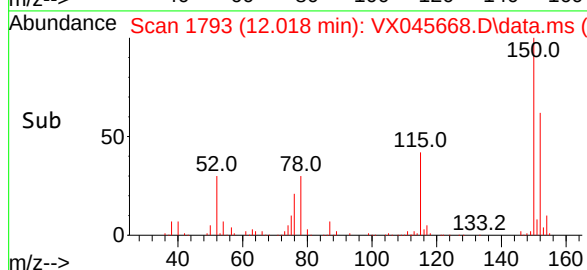
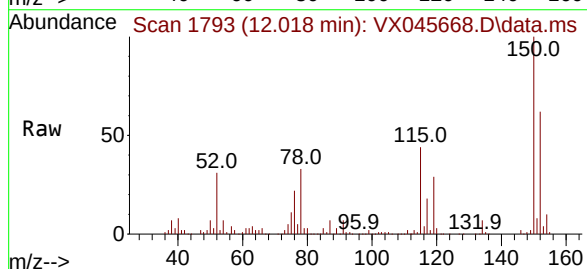
Manual Integrations
APPROVED

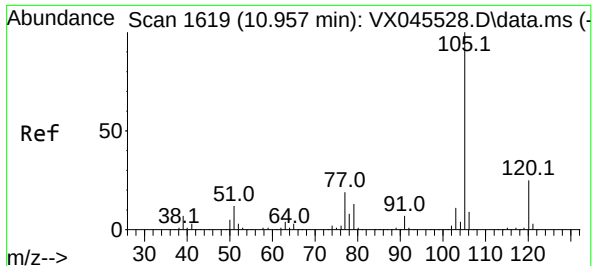
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion:152 Resp: 60456
Ion Ratio Lower Upper
152 100
115 76.3 46.9 140.7
150 164.0 0.0 349.4





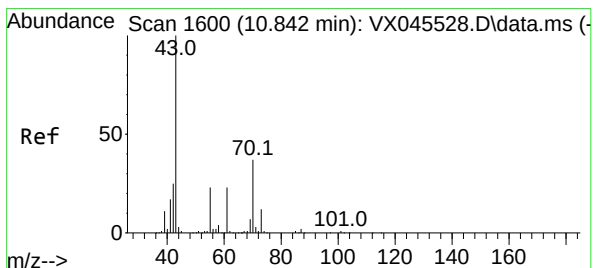
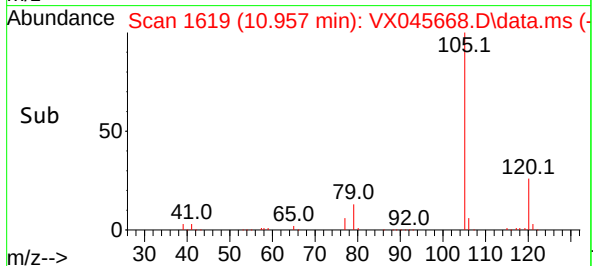
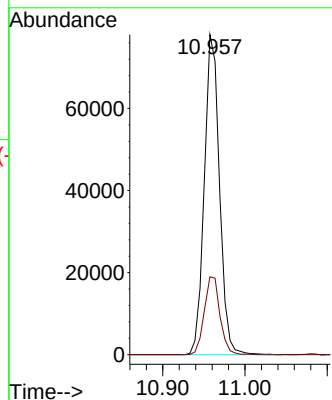
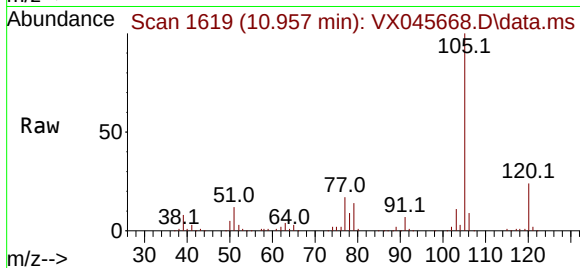
#73
Isopropylbenzene
Concen: 20.667 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion: 105 Resp: 100080
Ion Ratio Lower Upper
105 100
120 25.2 12.7 38.0

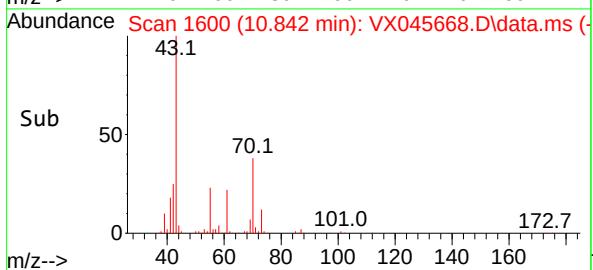
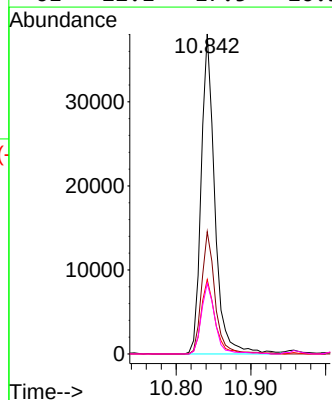
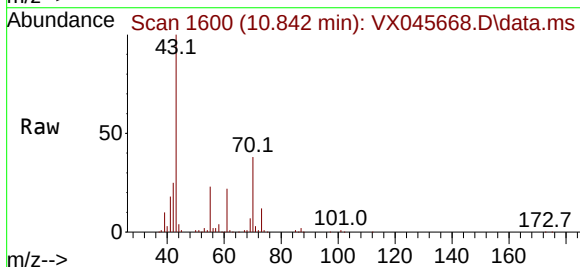
Manual Integrations
APPROVED

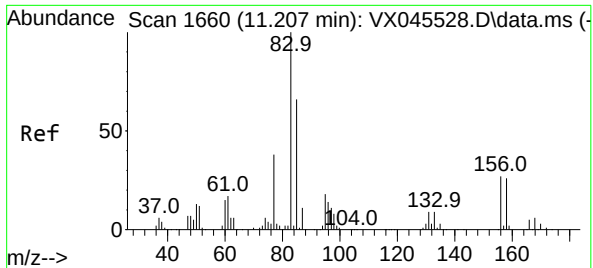
Reviewed By : John Carlone 04/10/2025
Supervised By : Mahesh Dadoda 04/10/2025



#74
N-ethyl acetate
Concen: 20.869 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion: 43 Resp: 48343
Ion Ratio Lower Upper
43 100
70 37.8 30.1 45.1
55 23.8 18.3 27.5
61 22.1 17.5 26.3





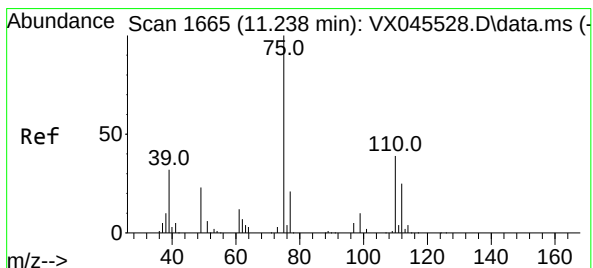
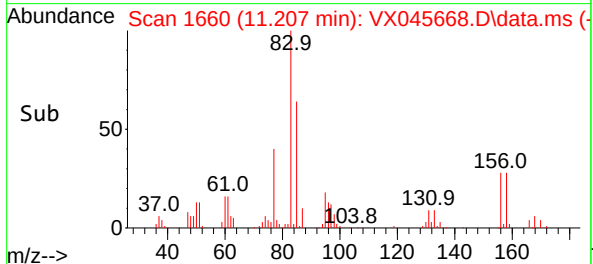
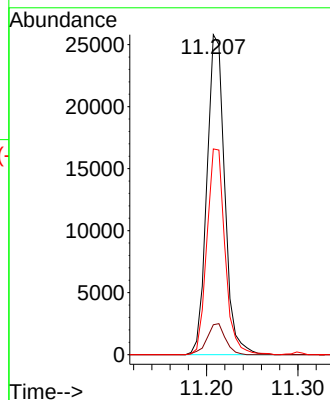
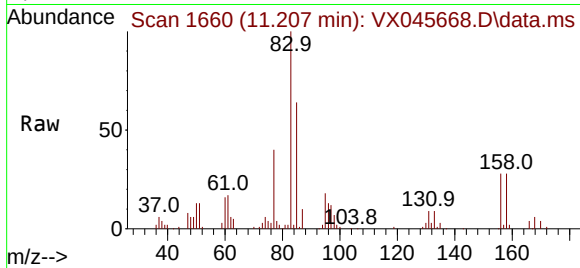
#75
1,1,2,2-Tetrachloroethane
Concen: 20.522 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion: 83 Resp: 34910
Ion Ratio Lower Upper
83 100
131 10.0 4.7 14.1
85 65.3 32.4 97.2

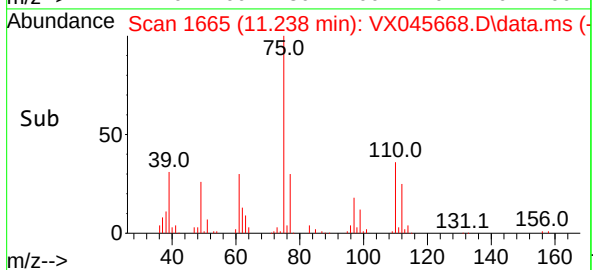
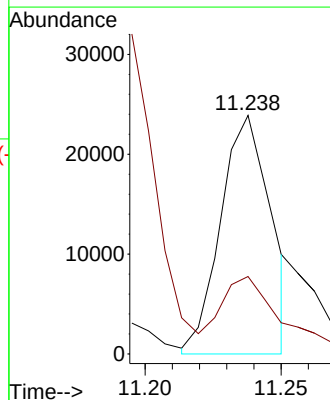
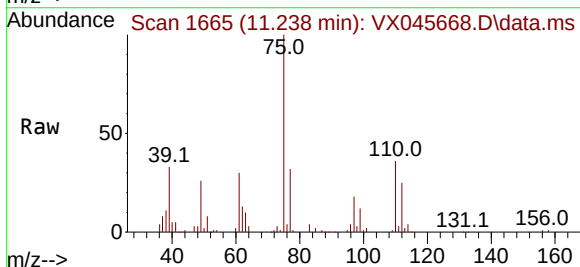
Manual Integrations
APPROVED

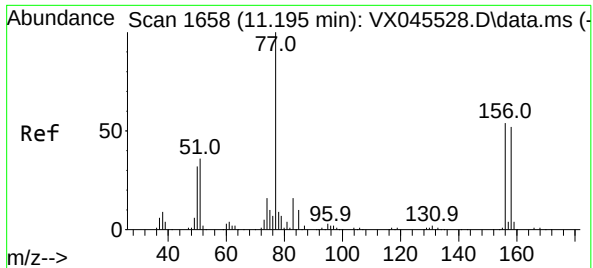
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#76
1,2,3-Trichloropropane
Concen: 20.719 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

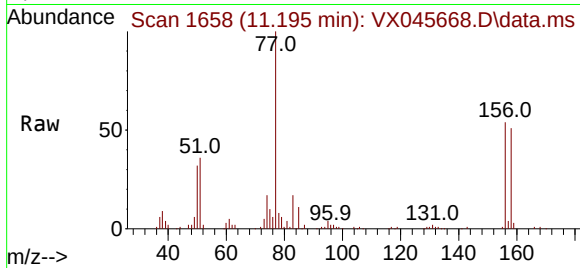
Tgt Ion: 75 Resp: 30554
Ion Ratio Lower Upper
75 100
77 40.3 20.0 59.9





#77
Bromobenzene
Concen: 20.037 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

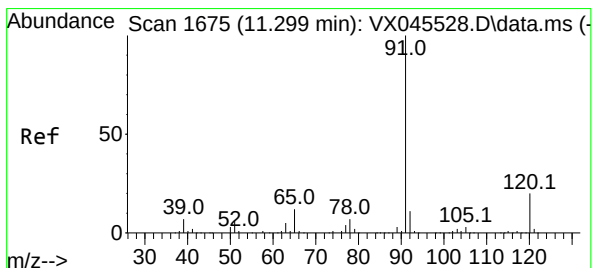
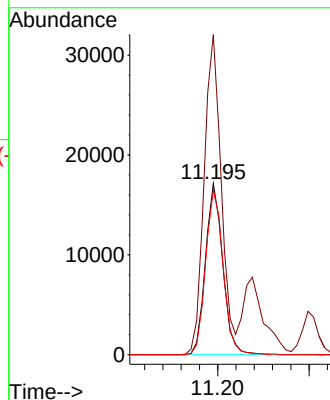
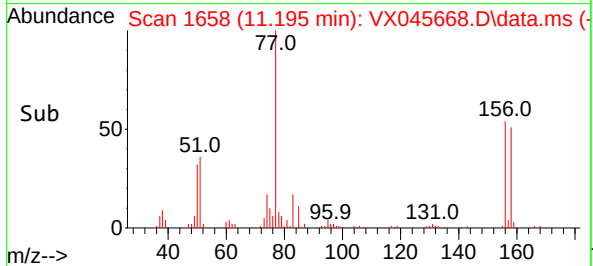
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



Tgt Ion:156 Resp: 22419
Ion Ratio Lower Upper
156 100
77 185.7 92.6 277.8
158 97.8 48.1 144.4

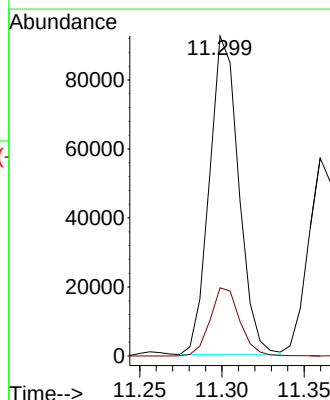
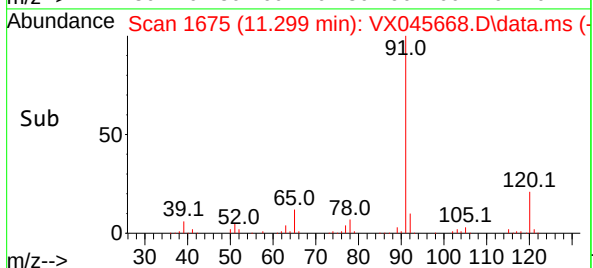
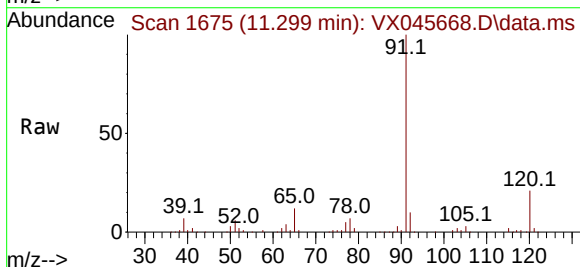
Manual Integrations
APPROVED

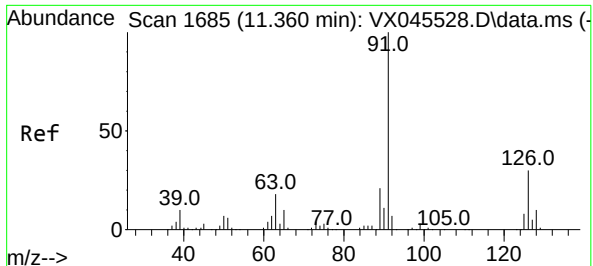
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#78
n-propylbenzene
Concen: 20.559 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion: 91 Resp: 114673
Ion Ratio Lower Upper
91 100
120 21.6 10.8 32.3





#79

2-Chlorotoluene

Concen: 20.279 ug/l

RT: 11.360 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion: 91 Resp: 7231

Ion Ratio Lower Upper

91 100

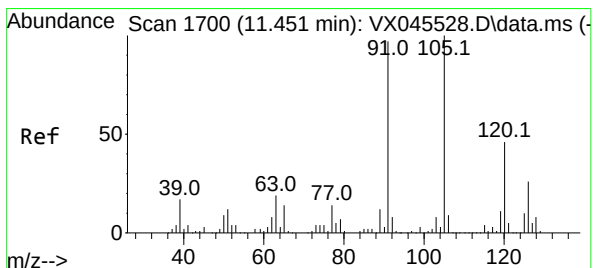
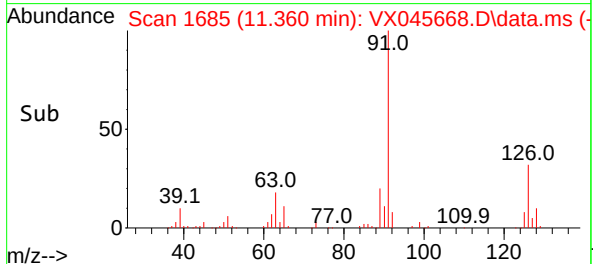
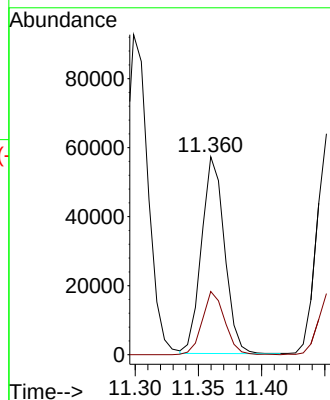
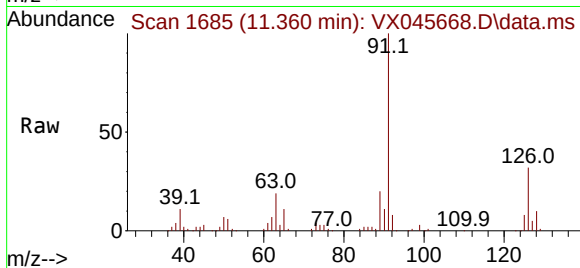
126 31.4 15.8 47.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#80

1,3,5-Trimethylbenzene

Concen: 21.081 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX045668.D

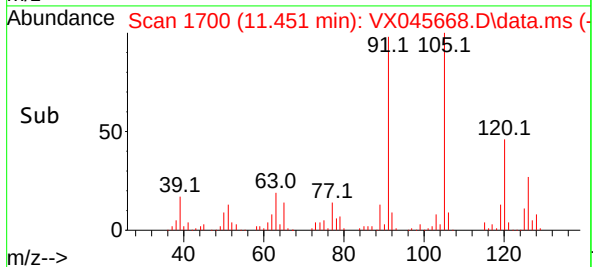
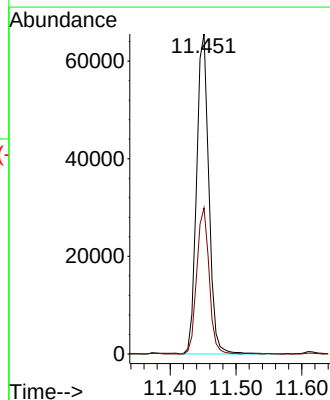
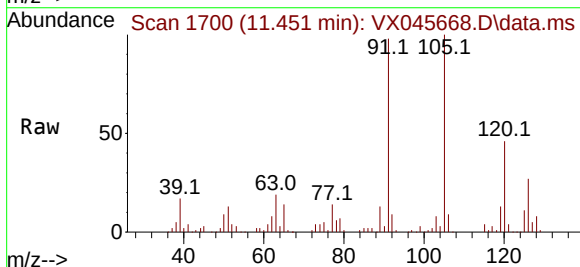
Acq: 09 Apr 2025 12:14

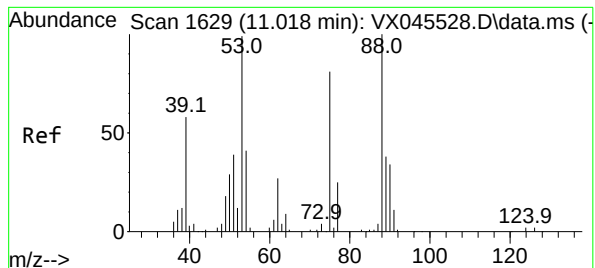
Tgt Ion:105 Resp: 84415

Ion Ratio Lower Upper

105 100

120 46.0 23.0 69.0





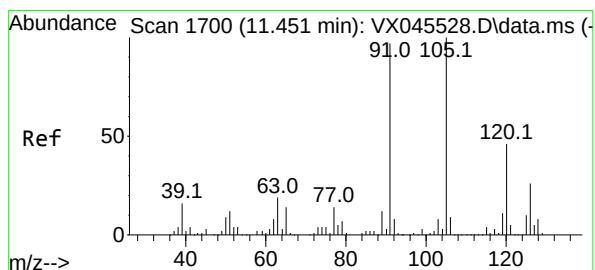
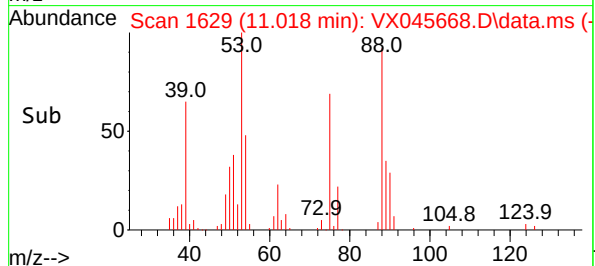
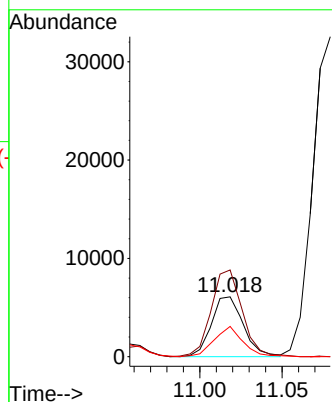
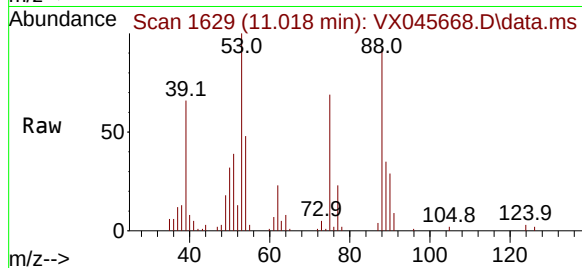
#81
trans-1,4-Dichloro-2-butene
Concen: 18.948 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion: 75 Resp: 823
Ion Ratio Lower Upper
75 100
53 140.4 101.8 152.6
89 45.7 37.2 55.8

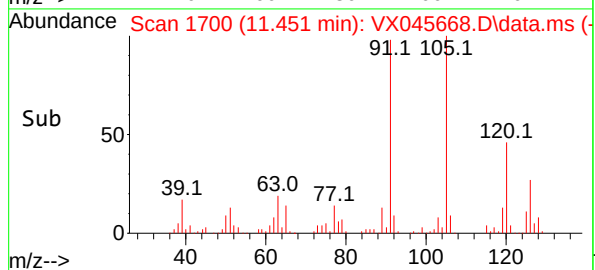
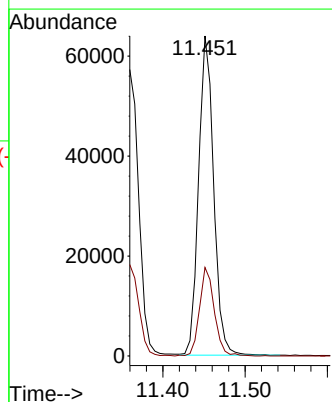
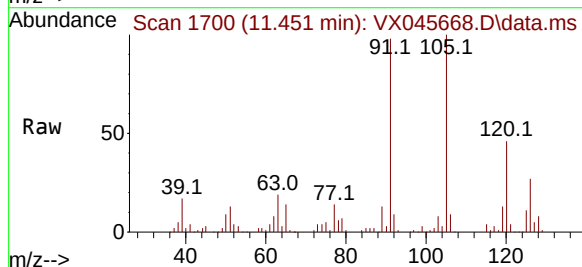
Manual Integrations
APPROVED

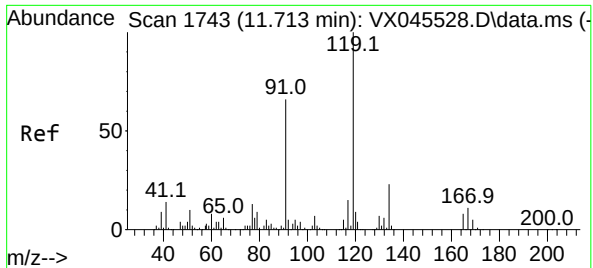
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#82
4-Chlorotoluene
Concen: 20.540 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

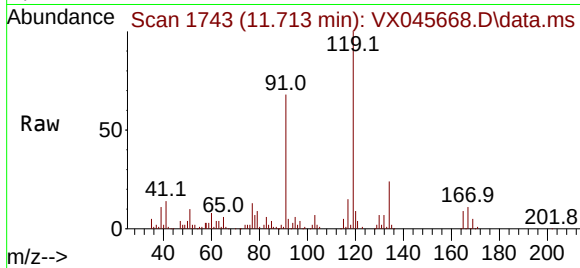
Tgt Ion: 91 Resp: 81662
Ion Ratio Lower Upper
91 100
126 27.1 13.3 39.9





#83
tert-Butylbenzene
Concen: 20.513 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

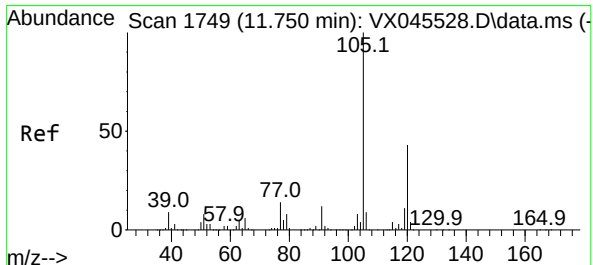
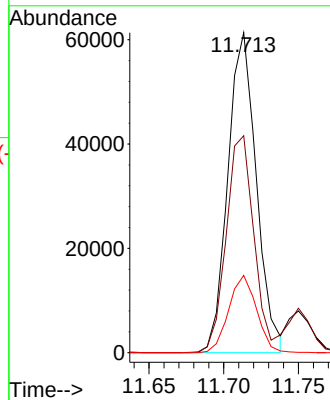
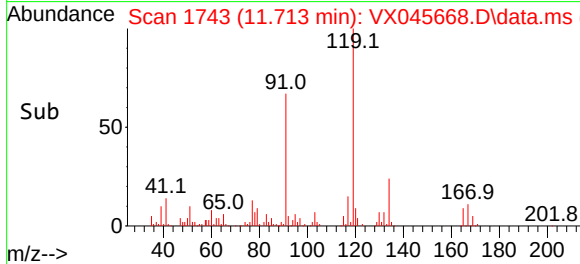
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



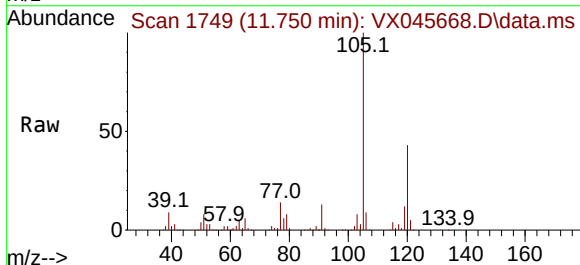
Tgt Ion:119 Resp: 81324
Ion Ratio Lower Upper
119 100
91 65.5 32.4 97.2
134 23.6 11.5 34.5

Manual Integrations
APPROVED

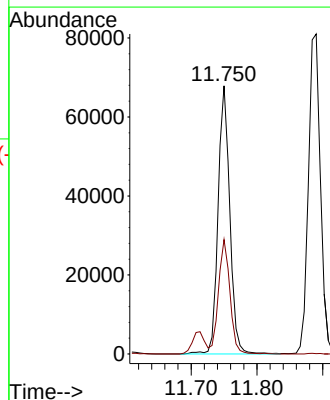
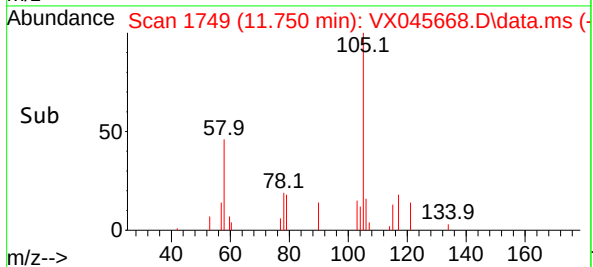
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025

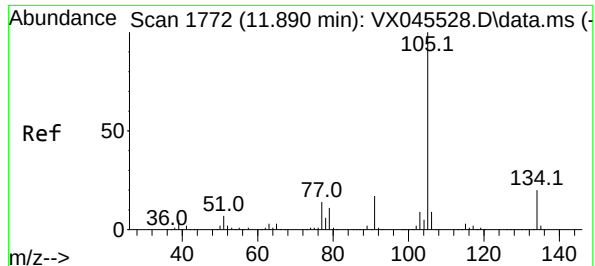


#84
1,2,4-Trimethylbenzene
Concen: 20.954 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14



Tgt Ion:105 Resp: 84218
Ion Ratio Lower Upper
105 100
120 41.4 21.4 64.3





#85

sec-Butylbenzene

Concen: 21.061 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

VX0409WBSD01

Tgt Ion:105 Resp: 10255

Ion Ratio Lower Upper

105 100

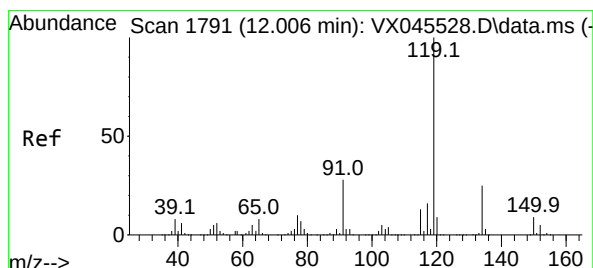
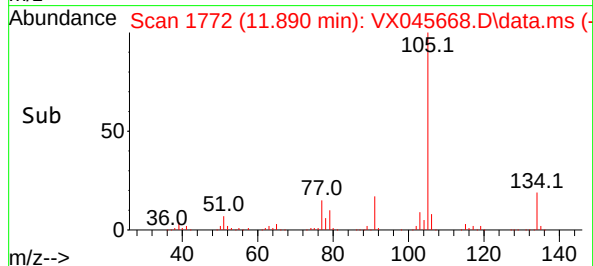
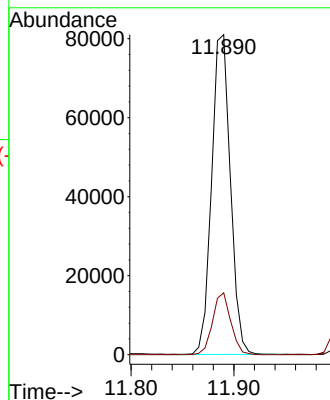
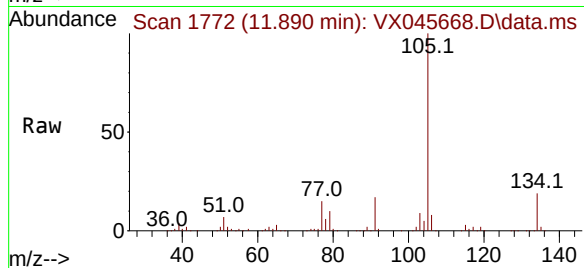
134 18.7 9.6 28.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#86

p-Isopropyltoluene

Concen: 20.783 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

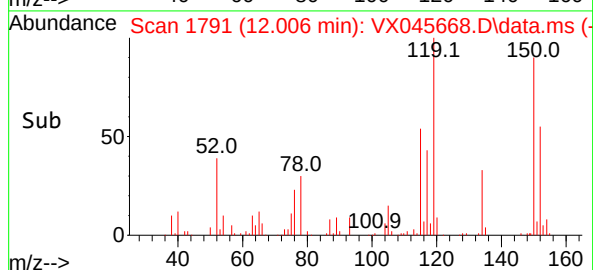
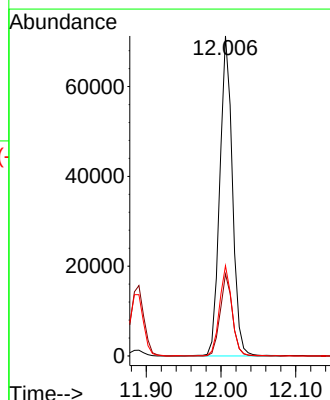
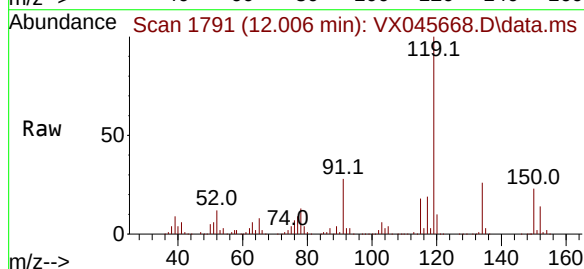
Tgt Ion:119 Resp: 83431

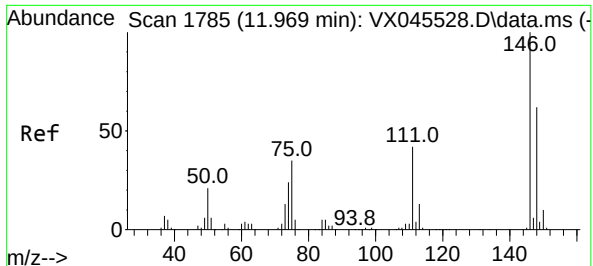
Ion Ratio Lower Upper

119 100

134 24.6 12.6 37.8

91 27.7 13.7 41.1





#87

1,3-Dichlorobenzene

Concen: 20.495 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

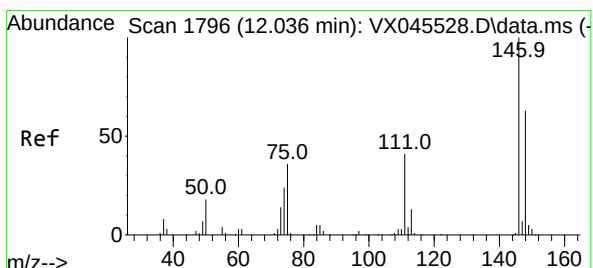
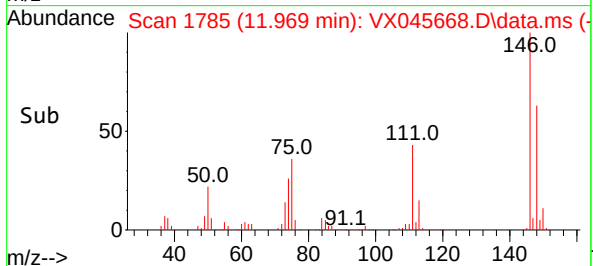
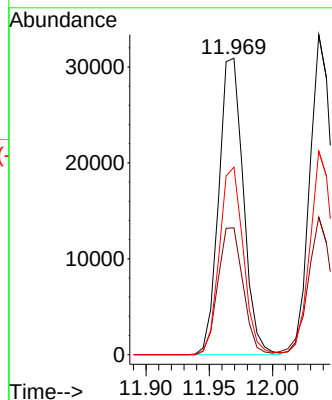
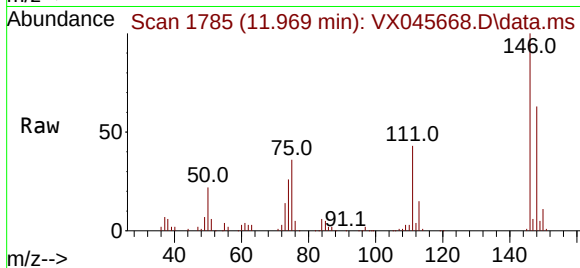
VX0409WBSD01

Tgt Ion:146	Resp:	4174
Ion Ratio	Lower	Upper
146	100	
111	43.8	22.2 66.6
148	61.7	31.9 95.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#88

1,4-Dichlorobenzene

Concen: 20.229 ug/l

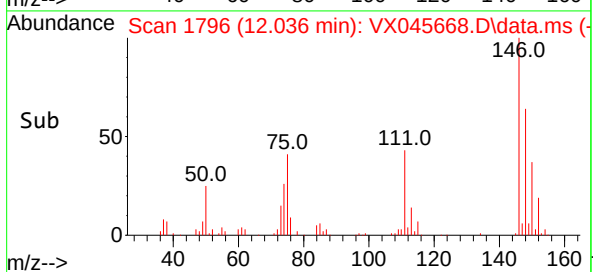
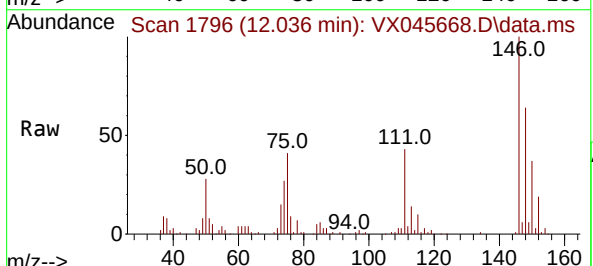
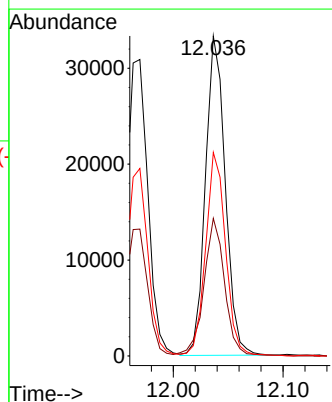
RT: 12.036 min Scan# 1796

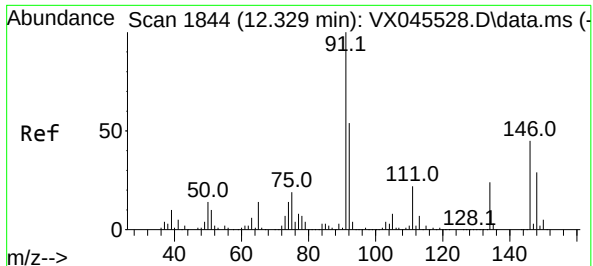
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:146	Resp:	41769
Ion Ratio	Lower	Upper
146	100	
111	45.3	20.9 62.8
148	64.4	31.5 94.5





#89

n-Butylbenzene

Concen: 20.828 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Instrument :

MSVOA_X

ClientSampleId :

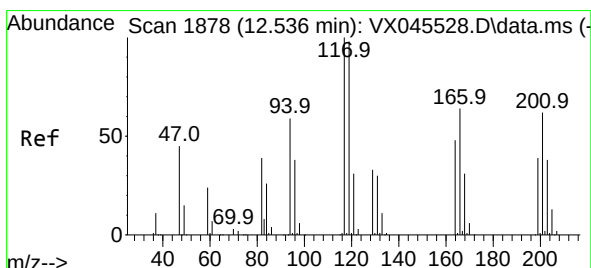
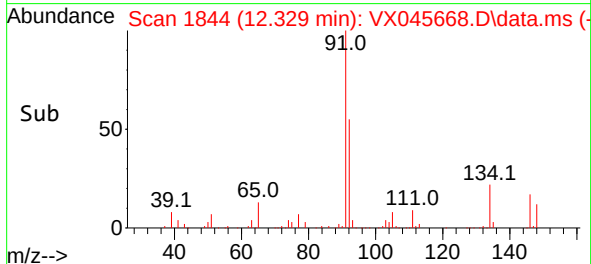
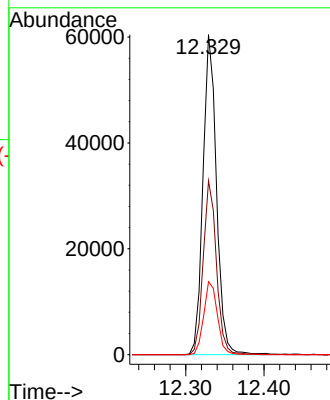
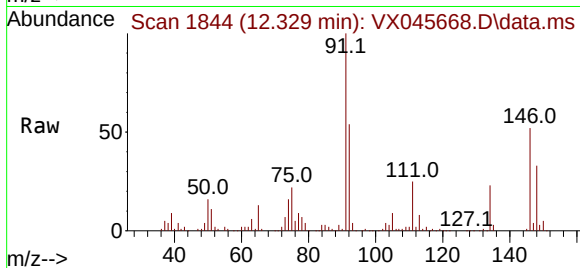
VX0409WBSD01

Tgt Ion:	91	Resp:	7250
Ion Ratio	Lower	Upper	
91	100		
92	53.2	26.9	80.6
134	23.0	11.9	35.7

Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025

Supervised By :Mahesh Dadoda 04/10/2025



#90

Hexachloroethane

Concen: 20.226 ug/l

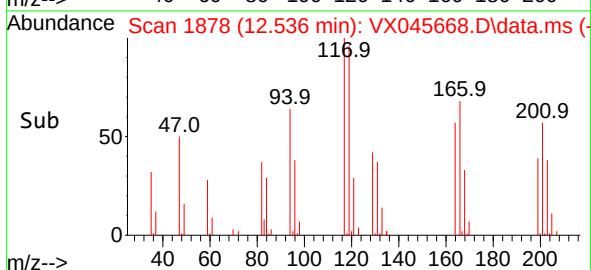
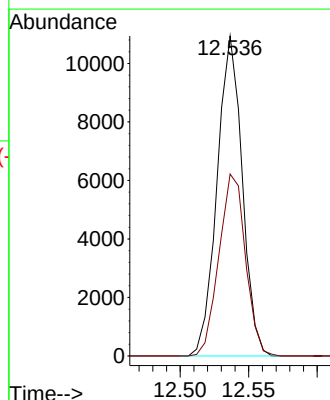
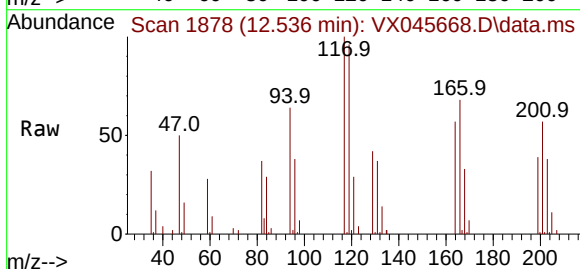
RT: 12.536 min Scan# 1878

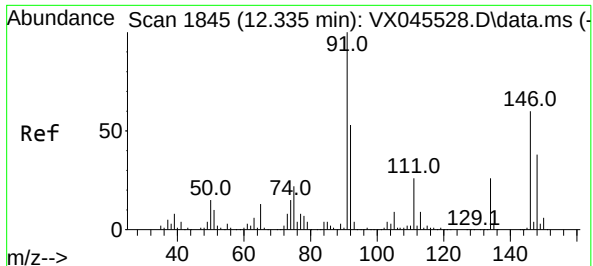
Delta R.T. 0.000 min

Lab File: VX045668.D

Acq: 09 Apr 2025 12:14

Tgt Ion:	117	Resp:	13954
Ion Ratio	Lower	Upper	
117	100		
201	60.0	31.2	93.6





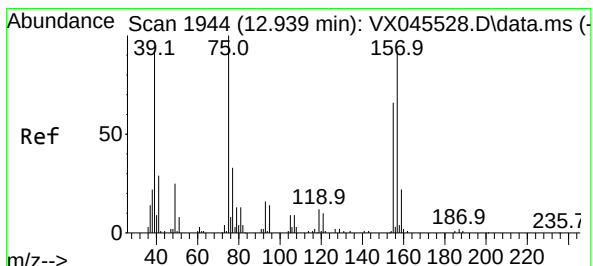
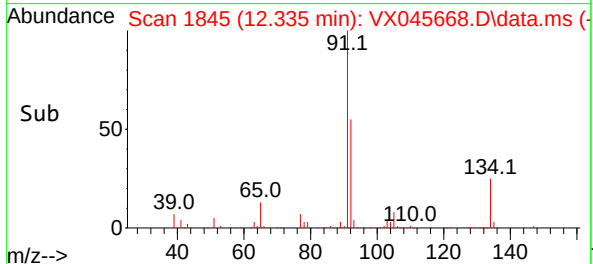
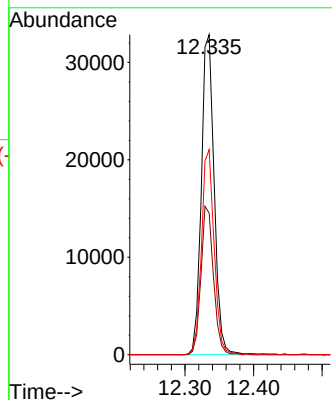
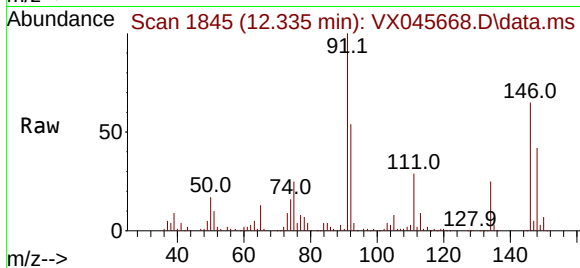
#91
1,2-Dichlorobenzene
Concen: 21.185 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion:146 Resp: 4289
Ion Ratio Lower Upper
146 100
111 45.2 22.9 68.8
148 63.0 31.9 95.5

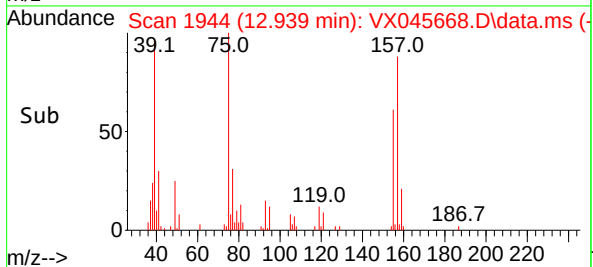
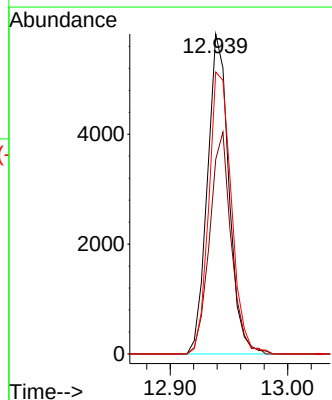
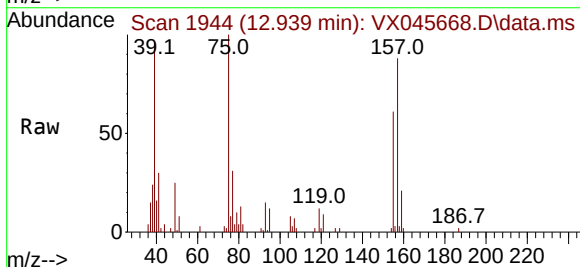
Manual Integrations
APPROVED

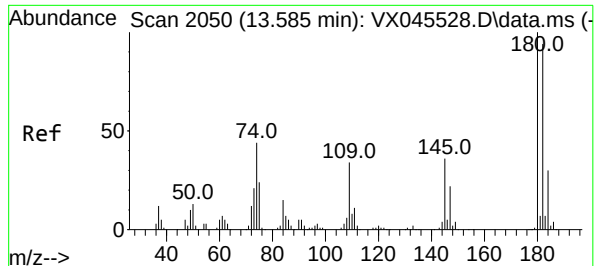
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.808 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion: 75 Resp: 7403
Ion Ratio Lower Upper
75 100
155 69.6 34.9 104.7
157 92.7 44.9 134.7





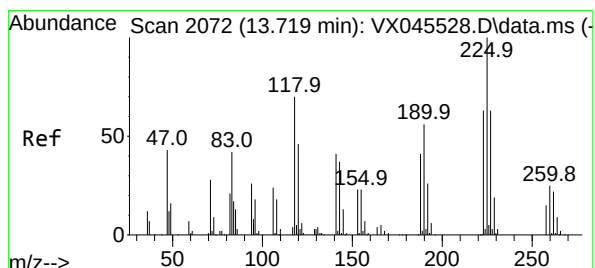
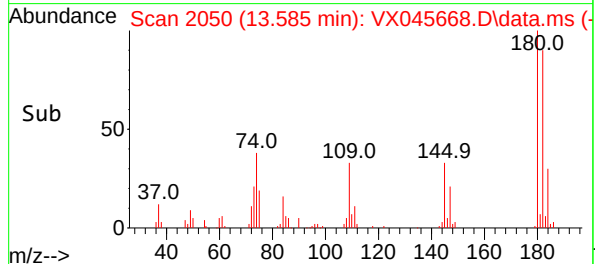
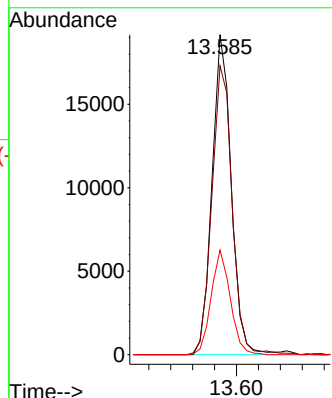
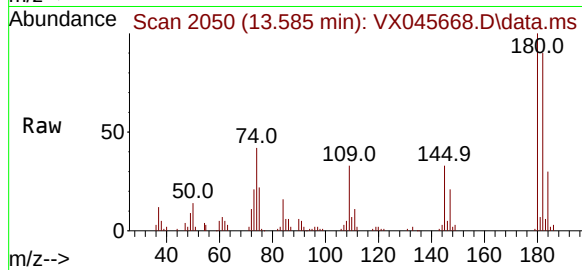
#93
1,2,4-Trichlorobenzene
Concen: 20.713 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	47.9	143.6
145	32.6	17.9	53.8

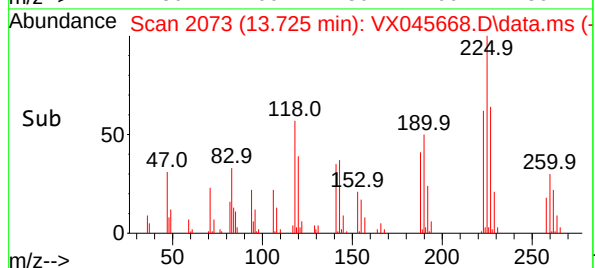
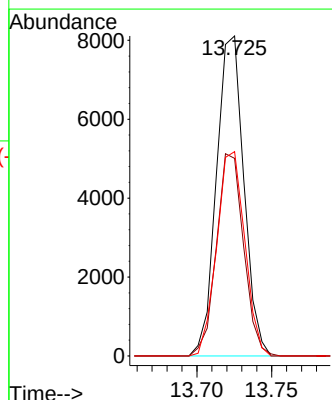
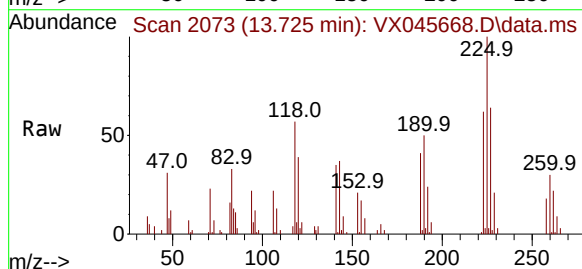
Manual Integrations
APPROVED

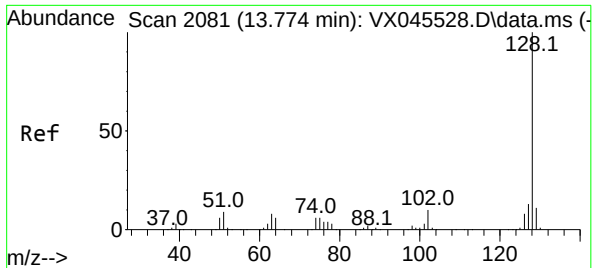
Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#94
Hexachlorobutadiene
Concen: 21.264 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.006 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

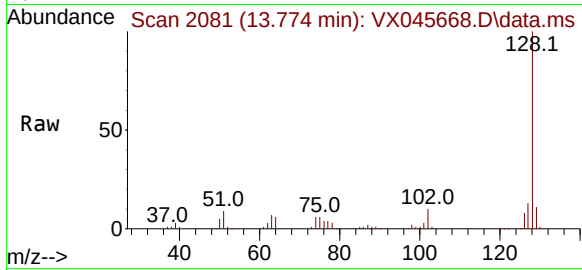
Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	31.1	93.3
227	65.1	32.2	96.6





#95
Naphthalene
Concen: 20.410 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

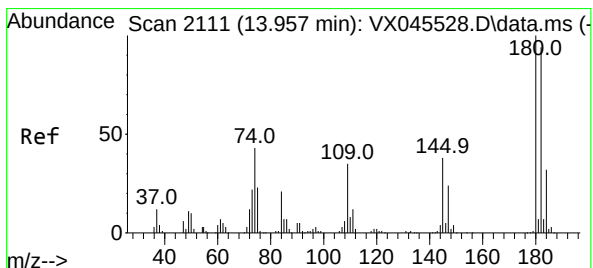
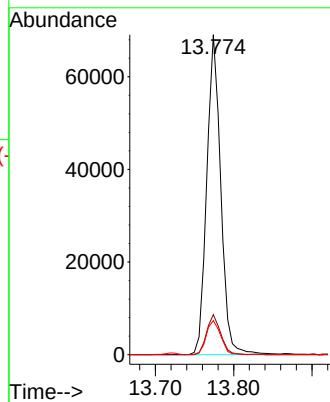
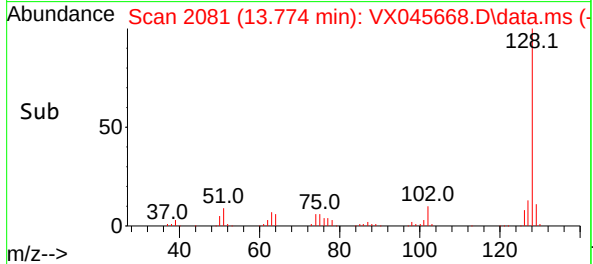
Instrument :
MSVOA_X
ClientSampleId :
VX0409WBSD01



Tgt Ion:128 Resp: 85609
Ion Ratio Lower Upper
128 100
127 12.4 10.3 15.5
129 11.1 8.6 12.8

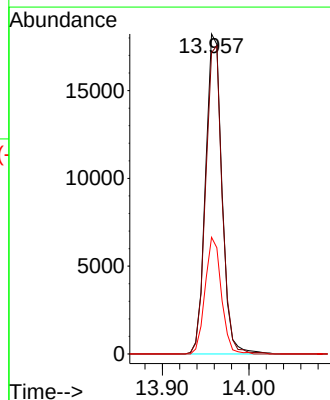
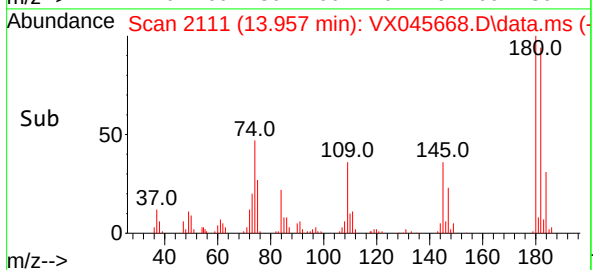
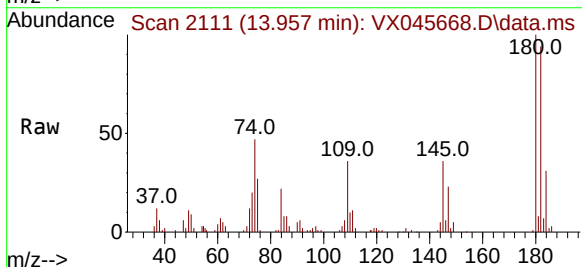
Manual Integrations
APPROVED

Reviewed By :John Carlone 04/10/2025
Supervised By :Mahesh Dadoda 04/10/2025



#96
1,2,3-Trichlorobenzene
Concen: 20.305 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX045668.D
Acq: 09 Apr 2025 12:14

Tgt Ion:180 Resp: 23965
Ion Ratio Lower Upper
180 100
182 96.2 47.3 141.8
145 36.0 18.2 54.6



Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDICC001	VX045525.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dichlorobenzene	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	1,4-Dioxane	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Ethyl methacrylate	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC001	VX045525.D	Methacrylonitrile	Amit	4/2/2025 2:14:20 PM	MMDadoda	4/2/2025 2:16:05 PM	Peak Integrated by Software
VSTDICC005	VX045526.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:22 PM	MMDadoda	4/2/2025 2:16:07 PM	Peak Integrated by Software
VSTDICC020	VX045527.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:25 PM	MMDadoda	4/2/2025 2:16:09 PM	Peak Integrated by Software
VSTDICCC050	VX045528.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:26 PM	MMDadoda	4/2/2025 2:16:11 PM	Peak Integrated by Software
VSTDICC100	VX045529.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:28 PM	MMDadoda	4/2/2025 2:16:15 PM	Peak Integrated by Software
VSTDICC150	VX045530.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:30 PM	MMDadoda	4/2/2025 2:16:46 PM	Peak Integrated by Software
VSTDICV050	VX045532.D	1,2,3-Trichloropropane	Amit	4/2/2025 2:14:32 PM	MMDadoda	4/2/2025 2:17:50 PM	Peak Integrated by Software
VSTDCCC050	VX045534.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:10 AM	MMDadoda	4/3/2025 1:12:02 PM	Peak Integrated by Software
VSTDCCC050	VX045557.D	1,2,3-Trichloropropane	JOHN	4/3/2025 10:04:58 AM	MMDadoda	4/3/2025 1:12:08 PM	Peak Integrated by Software



Manual Integration Report

Sequence:	VX040225	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Manual Integration Report

Sequence:

vx040925

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX045664.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:23 AM	MMDadoda	4/10/2025 10:14:42 AM	Peak Integrated by Software
VX0409WBS01	VX045667.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:27 AM	MMDadoda	4/10/2025 10:14:37 AM	Peak Integrated by Software
VX0409WBSD01	VX045668.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:33 AM	MMDadoda	4/10/2025 10:14:34 AM	Peak Integrated by Software
VSTDCCC050	VX045684.D	1,2,3-Trichloropropane	JOHN	4/10/2025 9:50:38 AM	MMDadoda	4/10/2025 10:14:29 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045524.D	01 Apr 2025 16:15	JC/MD	Ok
2	VSTDICCC001	VX045525.D	01 Apr 2025 17:06	JC/MD	Ok,M
3	VSTDICCC005	VX045526.D	01 Apr 2025 17:29	JC/MD	Ok,M
4	VSTDICCC020	VX045527.D	01 Apr 2025 17:52	JC/MD	Ok,M
5	VSTDICCC050	VX045528.D	01 Apr 2025 18:15	JC/MD	Ok,M
6	VSTDICCC100	VX045529.D	01 Apr 2025 18:38	JC/MD	Ok,M
7	VSTDICCC150	VX045530.D	01 Apr 2025 19:02	JC/MD	Ok,M
8	IBLK	VX045531.D	01 Apr 2025 19:25	JC/MD	Ok
9	VSTDICV050	VX045532.D	01 Apr 2025 19:48	JC/MD	Ok,M
10	BFB	VX045533.D	02 Apr 2025 09:30	JC/MD	Ok
11	VSTDICCC050	VX045534.D	02 Apr 2025 10:02	JC/MD	Ok,M
12	VX0402MBL01	VX045535.D	02 Apr 2025 10:30	JC/MD	Ok
13	VX0402WBL01	VX045536.D	02 Apr 2025 10:53	JC/MD	Ok
14	VX0402WBS01	VX045537.D	02 Apr 2025 11:16	JC/MD	Ok,M
15	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44	JC/MD	Ok,M
16	Q1697-01	VX045539.D	02 Apr 2025 12:07	JC/MD	Dilution
17	Q1697-02	VX045540.D	02 Apr 2025 12:30	JC/MD	Dilution
18	IBLK	VX045541.D	02 Apr 2025 12:54	JC/MD	Ok
19	Q1697-01DL	VX045542.D	02 Apr 2025 13:21	JC/MD	Ok
20	Q1697-02DL	VX045543.D	02 Apr 2025 13:44	JC/MD	Ok
21	Q1697-03	VX045544.D	02 Apr 2025 14:07	JC/MD	Not Ok

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QCBatch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1697-04	VX045545.D	02 Apr 2025 14:31	JC/MD	Not Ok
23	Q1697-05	VX045546.D	02 Apr 2025 14:54	JC/MD	Not Ok
24	Q1697-07	VX045547.D	02 Apr 2025 15:18	JC/MD	Not Ok
25	IBLK	VX045548.D	02 Apr 2025 15:41	JC/MD	Ok
26	Q1697-03	VX045549.D	02 Apr 2025 16:04	JC/MD	Ok
27	Q1697-04	VX045550.D	02 Apr 2025 16:27	JC/MD	Ok
28	Q1697-05	VX045551.D	02 Apr 2025 16:51	JC/MD	Ok
29	Q1697-06	VX045552.D	02 Apr 2025 17:14	JC/MD	ReRun
30	Q1623-01	VX045553.D	02 Apr 2025 17:37	JC/MD	Ok
31	Q1623-02	VX045554.D	02 Apr 2025 18:01	JC/MD	Ok
32	Q1623-03	VX045555.D	02 Apr 2025 18:24	JC/MD	Ok
33	Q1623-04	VX045556.D	02 Apr 2025 18:47	JC/MD	Ok
34	VSTDCCC050	VX045557.D	02 Apr 2025 19:10	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM
Supervise By	Maresh Dadoda	Supervise On	4/10/2025 10:14:57 AM
SubDirectory	VX040925	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133622		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133623,VP133624		

Sr #	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX045663.D	09 Apr 2025 09:38	JC/MD	Ok
2	VSTDCCC050	VX045664.D	09 Apr 2025 10:35	JC/MD	Ok,M
3	VX0409MBL01	VX045665.D	09 Apr 2025 11:03	JC/MD	Ok
4	VX0409WBL01	VX045666.D	09 Apr 2025 11:26	JC/MD	Ok
5	VX0409WBS01	VX045667.D	09 Apr 2025 11:49	JC/MD	Ok,M
6	VX0409WBSD01	VX045668.D	09 Apr 2025 12:14	JC/MD	Ok,M
7	Q1739-01	VX045669.D	09 Apr 2025 12:38	JC/MD	Ok
8	Q1739-02	VX045670.D	09 Apr 2025 13:01	JC/MD	Ok
9	PB167487TB	VX045671.D	09 Apr 2025 13:24	JC/MD	Ok
10	IBLK	VX045672.D	09 Apr 2025 13:47	JC/MD	Ok
11	Q1729-01	VX045673.D	09 Apr 2025 14:10	JC/MD	Ok
12	Q1729-02	VX045674.D	09 Apr 2025 14:33	JC/MD	Ok
13	Q1729-03	VX045675.D	09 Apr 2025 14:57	JC/MD	Ok
14	Q1729-04	VX045676.D	09 Apr 2025 15:20	JC/MD	Ok
15	PB167492TB	VX045677.D	09 Apr 2025 15:43	JC/MD	Ok
16	Q1746-02	VX045678.D	09 Apr 2025 16:06	JC/MD	Ok
17	Q1746-04	VX045679.D	09 Apr 2025 16:29	JC/MD	Ok
18	IBLK	VX045680.D	09 Apr 2025 16:52	JC/MD	Ok
19	Q1762-01	VX045681.D	09 Apr 2025 17:16	JC/MD	Dilution
20	Q1762-02	VX045682.D	09 Apr 2025 17:39	JC/MD	Ok
21	IBLK	VX045683.D	09 Apr 2025 18:02	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 10:14:57 AM
SubDirectory	VX040925	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133622		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133623,VP133624		

22	VSTDCCC050	VX045684.D	09 Apr 2025 18:25	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M

STD. NAME	STD REF.#
Tune/Reschk	VP133559,VP133563
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574
CCC	VP133564,VP133565
Internal Standard/PEM	
ICV/I.BLK	VP133575
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr #	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045524.D	01 Apr 2025 16:15		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX045525.D	01 Apr 2025 17:06	%D failed for Comp. #53 in 01PPB	JC/MD	Ok,M
3	VSTDIC005	VSTDIC005	VX045526.D	01 Apr 2025 17:29		JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX045527.D	01 Apr 2025 17:52		JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX045528.D	01 Apr 2025 18:15		JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX045529.D	01 Apr 2025 18:38		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX045530.D	01 Apr 2025 19:02		JC/MD	Ok,M
8	IBLK	IBLK	VX045531.D	01 Apr 2025 19:25		JC/MD	Ok
9	VSTDICV050	ICVVX040225	VX045532.D	01 Apr 2025 19:48		JC/MD	Ok,M
10	BFB	BFB	VX045533.D	02 Apr 2025 09:30		JC/MD	Ok
11	VSTDIC050	VSTDIC050	VX045534.D	02 Apr 2025 10:02	pH#Lot#V12668	JC/MD	Ok,M
12	VX0402MBL01	VX0402MBL01	VX045535.D	02 Apr 2025 10:30		JC/MD	Ok
13	VX0402WBL01	VX0402WBL01	VX045536.D	02 Apr 2025 10:53		JC/MD	Ok
14	VX0402WBS01	VX0402WBS01	VX045537.D	02 Apr 2025 11:16		JC/MD	Ok,M
15	VX0402WBSD01	VX0402WBSD01	VX045538.D	02 Apr 2025 11:44		JC/MD	Ok,M
16	Q1697-01	MW-19B-72-040125	VX045539.D	02 Apr 2025 12:07	vial A pH<2 Need 200X	JC/MD	Dilution
17	Q1697-02	IW-01-55-040125	VX045540.D	02 Apr 2025 12:30	vial A pH<2 Need 10X	JC/MD	Dilution

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040225

Review By	John Carlone	Review On	4/2/2025 9:42:46 AM
Supervise By	Amit Patel	Supervise On	4/2/2025 2:14:39 PM
SubDirectory	VX040225	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP133559,VP133563		
Initial Calibration Stds	VP133569,VP133570,VP133571,VP133572,VP133573,VP133574		
CCC	VP133564,VP133565		
Internal Standard/PEM			
ICV/I.BLK	VP133575		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	IBLK	IBLK	VX045541.D	02 Apr 2025 12:54		JC/MD	Ok
19	Q1697-01DL	MW-19B-72-040125DL	VX045542.D	02 Apr 2025 13:21	vial B pH<2	JC/MD	Ok
20	Q1697-02DL	IW-01-55-040125DL	VX045543.D	02 Apr 2025 13:44	vial B pH<2	JC/MD	Ok
21	Q1697-03	IW-02-55-040125	VX045544.D	02 Apr 2025 14:07	Need lower dilution	JC/MD	Not Ok
22	Q1697-04	IW-02-55-040125-FD	VX045545.D	02 Apr 2025 14:31	Need lower dilution	JC/MD	Not Ok
23	Q1697-05	IW-03-55-040125	VX045546.D	02 Apr 2025 14:54	Need lower dilution	JC/MD	Not Ok
24	Q1697-07	MW-19B-72-040125	VX045547.D	02 Apr 2025 15:18	Not On Login	JC/MD	Not Ok
25	IBLK	IBLK	VX045548.D	02 Apr 2025 15:41		JC/MD	Ok
26	Q1697-03	IW-02-55-040125	VX045549.D	02 Apr 2025 16:04	vial A pH<2	JC/MD	Ok
27	Q1697-04	IW-02-55-040125-FD	VX045550.D	02 Apr 2025 16:27	vial A pH<2	JC/MD	Ok
28	Q1697-05	IW-03-55-040125	VX045551.D	02 Apr 2025 16:51	vial A pH<2	JC/MD	Ok
29	Q1697-06	TB-01-040125	VX045552.D	02 Apr 2025 17:14	vial A pH<2 TB;Hit of comp.#44	JC/MD	ReRun
30	Q1623-01	Storage-Blank-SOIL-RE	VX045553.D	02 Apr 2025 17:37	vial A pH<2	JC/MD	Ok
31	Q1623-02	Storage-Blank-WATER	VX045554.D	02 Apr 2025 18:01	vial A pH<2	JC/MD	Ok
32	Q1623-03	Storage-Blank-WATER	VX045555.D	02 Apr 2025 18:24	vial A pH<2	JC/MD	Ok
33	Q1623-04	Storage-Blank-SAMPLE	VX045556.D	02 Apr 2025 18:47	vial A pH<2	JC/MD	Ok
34	VSTDCCC050	VSTDCCC050EC	VX045557.D	02 Apr 2025 19:10		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM
Supervise By	Mahesh Dadoda	Supervise On	4/10/2025 10:14:57 AM
SubDirectory	VX040925	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133622		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133623,VP133624		

Sr #	Sampleld	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX045663.D	09 Apr 2025 09:38		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX045664.D	09 Apr 2025 10:35	pH#Lot#V12668	JC/MD	Ok,M
3	VX0409MBL01	VX0409MBL01	VX045665.D	09 Apr 2025 11:03		JC/MD	Ok
4	VX0409WBL01	VX0409WBL01	VX045666.D	09 Apr 2025 11:26		JC/MD	Ok
5	VX0409WBS01	VX0409WBS01	VX045667.D	09 Apr 2025 11:49		JC/MD	Ok,M
6	VX0409WBSD01	VX0409WBSD01	VX045668.D	09 Apr 2025 12:14		JC/MD	Ok,M
7	Q1739-01	WC-LIQUID-20250404	VX045669.D	09 Apr 2025 12:38	vial A pH<2 oily sample	JC/MD	Ok
8	Q1739-02	WC-LIQUID-20250404	VX045670.D	09 Apr 2025 13:01	vial A pH<2 oily sample	JC/MD	Ok
9	PB167487TB	PB167487TB	VX045671.D	09 Apr 2025 13:24		JC/MD	Ok
10	IBLK	IBLK	VX045672.D	09 Apr 2025 13:47		JC/MD	Ok
11	Q1729-01	Storage-Blank-SOIL-RE	VX045673.D	09 Apr 2025 14:10	vial A pH<2	JC/MD	Ok
12	Q1729-02	Storage-Blank-WATER-	VX045674.D	09 Apr 2025 14:33	vial A pH<2	JC/MD	Ok
13	Q1729-03	Storage-Blank-WATER-	VX045675.D	09 Apr 2025 14:57	vial A pH<2	JC/MD	Ok
14	Q1729-04	Storage-Blank-SAMPLE	VX045676.D	09 Apr 2025 15:20	vial A pH<2	JC/MD	Ok
15	PB167492TB	PB167492TB	VX045677.D	09 Apr 2025 15:43		JC/MD	Ok
16	Q1746-02	B-149-SB01	VX045678.D	09 Apr 2025 16:06	vial A pH#5.0	JC/MD	Ok
17	Q1746-04	B-149-SB02	VX045679.D	09 Apr 2025 16:29	vial A pH#5.0	JC/MD	Ok
18	IBLK	IBLK	VX045680.D	09 Apr 2025 16:52		JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX040925

Review By	John Carlone	Review On	4/10/2025 9:52:48 AM
Supervise By	Maresh Dadoda	Supervise On	4/10/2025 10:14:57 AM
SubDirectory	VX040925	HP Acquire Method	HP Processing Method 82X040225W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP133622		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP133623,VP133624		

19	Q1762-01	MW4	VX045681.D	09 Apr 2025 17:16	vial A pH<2 Need 5X	JC/MD	Dilution
20	Q1762-02	MW5	VX045682.D	09 Apr 2025 17:39	vial A pH<2	JC/MD	Ok
21	IBLK	IBLK	VX045683.D	09 Apr 2025 18:02		JC/MD	Ok
22	VSTDCCC050	VSTDCCC050EC	VX045684.D	09 Apr 2025 18:25		JC/MD	Ok,M

M : Manual Integration

SOP ID :	M1311-TCLP-15		
SDG No :	N/A	Start Prep Date :	N/A Time : N/A
Weigh By :	N/A	End Prep Date :	N/A Time : N/A
Balance ID :	N/A	Combination Ratio :	N/A
pH Meter ID :	WC PH METER-1	ZHE Cleaning Batch :	N/A
Extraction By :	N/A	Initial Room Temperature:	N/A
Filter By :	N/A	Final Room Temperature:	N/A
Pippete ID :	N/A	TCLP Technician Signature :	<i>[Signature]</i>
Tumbler ID :	N/A	Supervisor By :	12
TCLP Filter ID :	N/A		

Standardized Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

We receive water sample in 40 ml vial tr to VOC LAB without fiftation and tumbling.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
04/10/25 12:30	<i>[Signature]</i> Prep Room	<i>[Signature]</i> VOC LAB
	Preparation Group	Analysis Group

Sample ID	ClientID	ZHE Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB167487TB	LEB487	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB167487TB	LEB487	N/A	N/A	N/A	N/A	N/A	N/A
Q1739-02	WC-LIQUID-20250404	N/A	N/A	N/A	N/A	<0.5	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : TCLP ZHE Q1743

WorkList ID : 188771

Department : TCLP Extraction

Date : 04-07-2025 11:24:58

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1739-02	WC-LIQUID-20250404	Water	TCLP ZHE Extraction	Cool 4 deg C	PARS02	L31	04/04/2025	1311 ZHE

Date/Time 04/07/25 11:35

Raw Sample Received by: RP WOC

Raw Sample Relinquished by: CP SM

Q1739-TCLP VOA

Date/Time 04/07/25

Raw Sample Received by: CP SM

Raw Sample Relinquished by: RP WOC

Prep Standard - Chemical Standard Summary

Order ID : Q1739

Test : TCLP VOA

Prepbatch ID :

Sequence ID/Qc Batch ID: vx040925,

Standard ID :

VP131746,VP131767,VP132035,VP132096,VP133174,VP133342,VP133544,VP133622,VP133623,VP133624,

Chemical ID :

V13391,V13457,V13460,V13465,V13466,V13706,V14154,V14289,V14431,V14435,V14501,V14502,V14523,V14524,V14613,V14614,V14615,V14630,V14631,V14632,V14633,V14719,V14720,V14726,V14744,V14753,V14804,V14805,V14842,V14883,V14896,V14897,V14898,V14899,W3112,

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
247	8260 Internal Standard, 250PPM	VP131746	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/23/2024								

FROM 0.50000ml of V14289 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
218	BFB, 25PPM	VP131767	11/22/2024	05/18/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
11/27/2024								

FROM 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1810	8260 Working Std(2-CVE)-800ppm	VP132035	12/10/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/12/2024

FROM 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final
Quantity: 50.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
719	8260 Working STD (BCM)-First source, 400PPM	VP132096	12/12/2024	06/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								12/19/2024

FROM 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final
Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
617	8260 Surrogate, 400PPM	VP133174	02/27/2025	08/27/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/04/2025

FROM 0.40000ml of V13706 + 24.60000ml of V14613 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
51	8260 Working STD (Acrolein) -first source, 800PPM	VP133342	03/18/2025	04/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/20/2025

FROM 1.00000ml of V14896 + 1.00000ml of V14897 + 1.00000ml of V14898 + 1.00000ml of V14899 + 21.00000ml of V14883 = Final Quantity: 25.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
257	8260 Calibration Working STD Mix-First source, 160PPM	VP133544	04/01/2025	05/10/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 04/03/2025

FROM 0.40000ml of V14842 + 1.00000ml of V14431 + 1.00000ml of V14435 + 1.00000ml of V14501 + 1.00000ml of V14502 + 1.00000ml of V14523 + 1.00000ml of V14524 + 1.00000ml of V14726 + 1.00000ml of V14744 + 1.00000ml of V14753 + 1.00000ml of V14804 + 1.00000ml of V14805 + 1.50000ml of V14719 + 1.50000ml of V14720 + 10.60000ml of V14615 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
589	BFB TUNE CHECK	VP133622	04/09/2025	04/10/2025	John Carlone	None	None	Maresh Dadoda 04/11/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133623	04/09/2025	04/10/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
620	50 PPB CCC, 8260-Water	VP133624	04/09/2025	04/10/2025	John Carlone	None	None	Maresh Dadoda
FROM 39.94450ml of W3112 + 0.00500ml of VP132096 + 0.00500ml of VP133174 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP133342 + 0.01250ml of VP133544 = Final Quantity: 40.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30067 / BFB tuneing solution	A0191805	11/22/2025	11/22/2024 / SAM	01/13/2023 / SAM	V13391

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13457

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13460

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13465

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul	A0193071	06/12/2025	12/12/2024 / SAM	01/27/2023 / SAM	V13466

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2]	A0196865	02/27/2026	02/27/2025 / SAM	04/12/2023 / SAM	V13706

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	05/18/2025	11/18/2024 / pedro	02/06/2024 / SAM	V14154

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555581 / Custom Standard, 8260 Internal Std [CS 5179-1]	A0210184	11/22/2025	11/22/2024 / SAM	04/15/2024 / SAM	V14289

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14431

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL	A0209618	09/20/2025	03/20/2025 / SAM	08/15/2024 / SAM	V14435

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95317 / Universal VOA Mega Mix (Min order = 5)	021624	09/20/2025	03/20/2025 / SAM	09/17/2024 / SAM	V14502

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14523

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95319 / Revised Additions Mix (Min = 5)	091724	09/20/2025	03/20/2025 / SAM	09/18/2024 / SAM	V14524

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	08/27/2025	02/27/2025 / SAM	11/26/2024 / SAM	V14613

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	06/10/2025	12/10/2024 / SAM	11/26/2024 / SAM	V14614

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	09/19/2025	03/19/2025 / SAM	11/26/2024 / SAM	V14615

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14630

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14631

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14632

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	06/10/2025	12/10/2024 / SAM	12/06/2024 / SAM	V14633

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14719

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	09/20/2025	03/20/2025 / SAM	12/17/2024 / SAM	V14720

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml	A02110618	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14726

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	08/27/2025	02/27/2025 / SAM	12/17/2024 / SAM	V14744

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml	A0216826	07/30/2025	01/30/2025 / SAM	12/17/2024 / SAM	V14753

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14804

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE	A0220471	09/20/2025	03/20/2025 / SAM	01/08/2025 / SAM	V14805

LOTS

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0217535	08/27/2025	02/27/2025 / SAM	01/21/2025 / SAM	V14842

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA9077-02 / Methanol, Purge/Trap (cs=6x1L)	22L0562016	10/25/2025	02/19/2025 / Jaswal	04/22/2024 / Jaswal	V14883

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14896

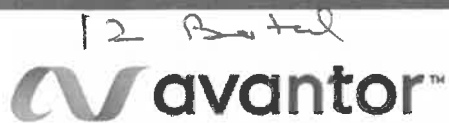
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14897

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14898

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	031725	04/17/2025	03/18/2025 / SAM	03/18/2025 / SAM	V14899

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

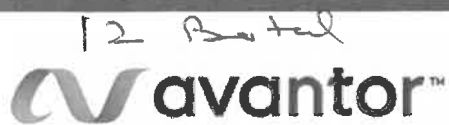
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



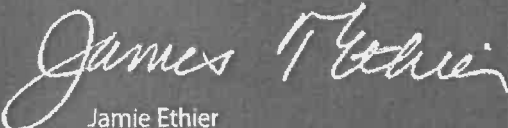
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

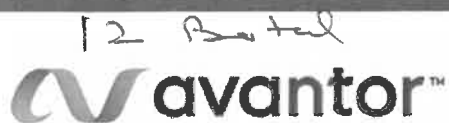
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



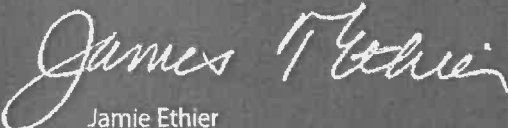
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(KME)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
														(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2400mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-6	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP9041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	N/A
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 14800mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 75mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 3460mg/kg
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 120mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H) (skin)	or-rat 277mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG02JXK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Pentachloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18990	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	or-rat 848mg/kg
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	or-rat 1235mg/kg
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 930mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 106mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	or-rat 725mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	N/A
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-83-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40005.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	109-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1060mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	109-46-7	75 ppm (450mg/m3/8H)	

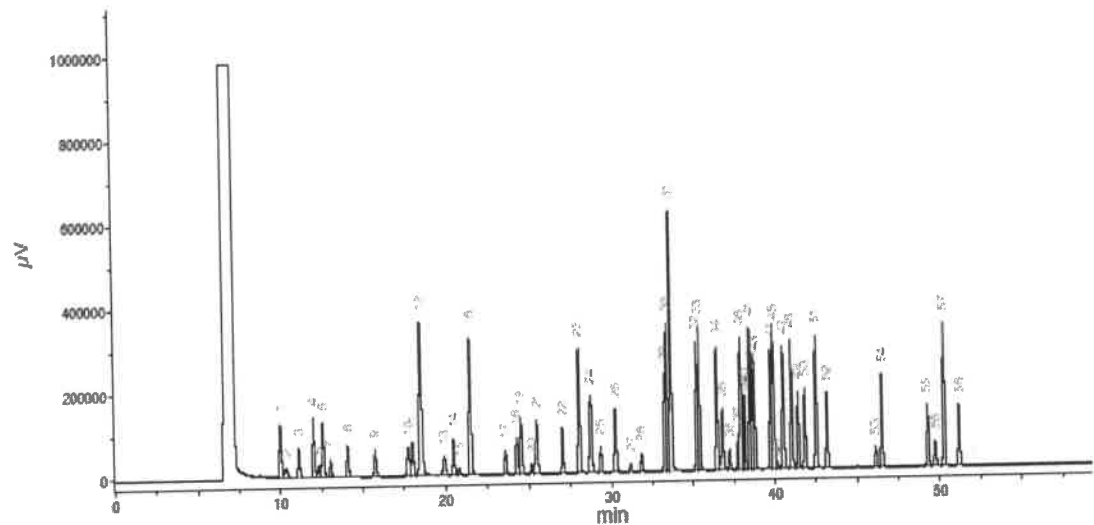


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.21
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloropropane	27.07
23	Toluene	28.03
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethane/1,2-Dichloropropane	30.94
27	Dibromochloromethane	31.16
28	1,2-Dibromomethane	32.84
29	Chlorobenzene	33.26
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.85
32	o-Xylene	35.53
33	Styrene	35.70
34	Isopropylbenzene/Bromofarm	35.78
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water

			Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Ree 03117/24

CERTIFIED WEIGHT REPORT

Part Number: 95317

Lot Number: 021624

Description: Universal VOA Megamix

69 components

Expiration Date: 021627

Recommended Storage: Freezer (0 °C)

Nominal Concentration (µg/mL): 2000

NIST Test ID#: BUTB

Solvent(s): Lot#
Methanol EG359-USQ12

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

5E-05 Balance Uncertainty

Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

Compound	(K049)	Lot	Dil.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Expanded	SDS Information			
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight (g)	Weight (g)	Conc. (µg/mL)	Uncertainty	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	8.1	75-05-8	40 ppm (70mg/m3/8H)	or-rat 2480mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102396	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	107-05-1	1 ppm (3mg/m3/8H)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8561	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20023	2001.6	8.1	75-15-0	4 ppm (12mg/m3) (skin)	or-rat 1200mg/kg
4. cis-1,4-Dichloro-2-butene	(1196)	14718EF	NA	NA	NA	2000	95	0.2	NA	0.21056	0.21069	2001.1	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0486)	MKBP6041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20746	2001.7	8.4	110-57-6	N/A	N/A
6. Diethyl ether	(0153)	IK18CAS000C	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06128PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	97-63-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8718V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20121	2001.5	8.2	74-88-4	5 ppm (28mg/m3/8H) (skin)	or-rat 75mg/kg
9. 2-Methyl-1-propanol	(0445)	15241EB	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20120	2001.4	8.1	78-83-1	50 ppm (150mg/m3/8H)	or-rat 2480mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20221	2001.4	8.2	128-98-7	1 ppm (3mg/m3/8H) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(0755)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20040	2001.5	8.1	96-33-3	10 ppm (35mg/m3/8H) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKGW6137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20041	2001.6	8.1	80-62-6	100 ppm (410mg/m3/8H)	or-rat 7872mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20220	2001.3	8.2	98-95-3	1 ppm (5mg/m3/8H) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	HG02JXK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (35mg/m3/8H)	or-rat 720mg/kg
15. Perchloroethane	(0460)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20430	2001.6	8.3	78-01-7	N/A	N/A
16. 1,1,2-Trichlorotrifluoroethane	(0474)	18930	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20225	2001.8	8.2	78-13-1	1000 ppm (7600mg/m3/8H)	or-rat 43g/kg
17. Bromodichloromethane	35171	101623	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-27-4	N/A	or-rat 915mg/kg
18. Dibromochloromethane	35171	101623	0.05	5.00	40002.1	2000	NA	NA	0.017	NA	NA	1999.6	23.0	124-48-1	N/A	or-rat 848mg/kg
19. cis-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-59-2	N/A	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.4	2000	NA	NA	0.017	NA	NA	1999.6	23.0	156-60-5	N/A	N/A
21. Methylene chloride	35171	101623	0.05	5.00	40002.8	2000	NA	NA	0.017	NA	NA	1999.6	22.9	75-09-2	500 ppm	or-rat 820mg/kg
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-35-4	1 ppm (4mg/m3/8H)	or-rat 200mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	56-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20004.0	2000	NA	NA	0.042	NA	NA	2001.3	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	N/A	or-rat 108mg/kg
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	75-34-3	100 ppm	or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg
33. 1,2-Dichloropropane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
34. 1,2-Dichloroethane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1947mg/kg
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	N/A	or-rat 3600mg/kg
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	N/A	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10061-01-5	N/A	N/A
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10061-02-6	N/A	N/A
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	2000.6	29.7	87-68-3	0.02 ppm (0.24mg/m3/8H)	or-rat 82mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H) (skin)	or-rat 800mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H) (skin)	or-rat 936mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.9	22.9	98-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	or-rat 2699mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-42-5	100 ppm	or-rat 5000mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-98-3	200 ppm	or-rat 5000mg/kg
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-rat 1390mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	23.0	95-63-6	N/A	or-rat 5g/kg
55. 1,2,4-Trimethylbenzene	35162	050823	0.05	5.00	40001.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	96-06-6	N/A	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	N/A	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-49-8	50 ppm (250mg/m3/8H)	or-rat 3900mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	106-43-4	N/A	or-rat 2100mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	N/A	or-mus 1062mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	22.9	108-46-7	75 ppm (450mg/m3/8H)	or-rat 500mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05	5.00	40000.8	2000	NA	NA	0.017							

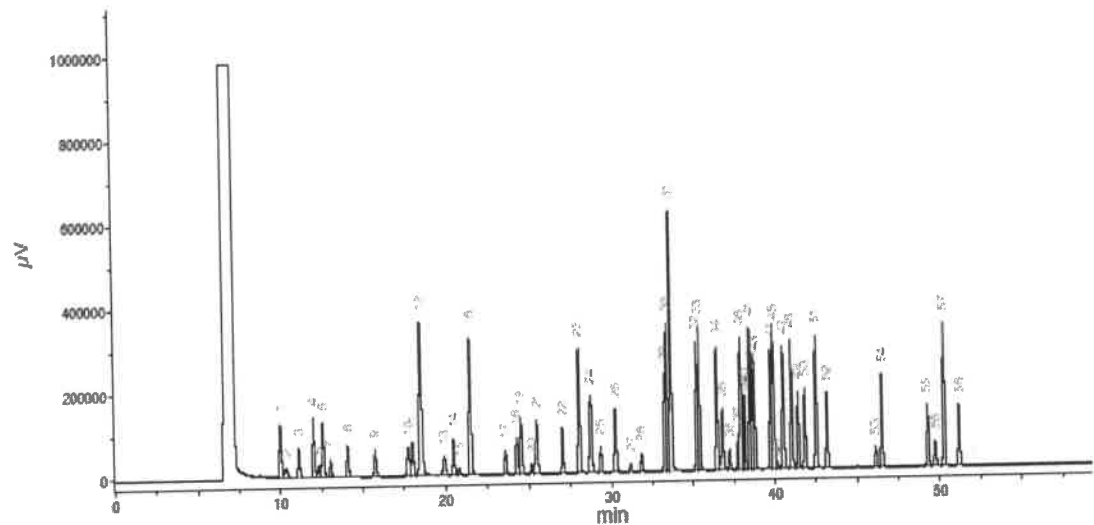


Run 16, "P95317 L021624 (2000µg/mL in MeOH)"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydrogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3



Peak #	Name	FID RT (min.)
1	Ether	9.97
2	1,1,2-Trichloro-1,2,2-trifluoroethane	10.53
3	1,1-Dichloroethane	11.10
4	Acetonitrile	12.60
5	Iodomethane	12.91
6	Allyl chloride	12.96
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethane	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethane	18.00
12	Hexamethylcyclotrisiloxane/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	18.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethane	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromodichloromethane	25.46
21	Dibromomethane/2,2-Dichloropropane	27.07
22	cis-1,2-Dichloroethane	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloroethane	29.34
25	1,1,2-Trichloroethane	30.94
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	32.84
28	1,2-Dibromomethane	33.26
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.53
32	o-Xylene	35.70
33	Styrene	35.76
34	Isopropylbenzene/Bromofarm	36.48
35	cis-1,4-Dichloro-3-butene	36.80
36	1,1,2-Trichloropropane	37.23
37	n-Propylbenzene	37.77
38	trans-1,4-Dichloro-3-butene	37.92
39	Bromobenzene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,3,5-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropylbenzene	41.02
49	1,3-Trichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	42.18
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.40
55	1,2,4-Trifluorobenzene	49.28
56	Hexachlorocyclopentadiene	49.72
57	Naphthalene	50.56
58	1,2,3-Trichlorobenzene	51.16

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225 H370 P271 P302,332	Highly Flammable Liquid and Vapor Cause damage to organs Use in ventilated area If on skin, wash with soap and water	H301, 311, 331 H351 P280 P305,351,338	Toxic if swallowed, skin contact, inhaled Suspected of causing cancer Use gloves, eye protection/face shield If in eyes, remove contacts, rinse with water

			Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))	CAS#	% (optional)
Methanol METHYL ALCOHOL	67-56-1	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Storage Conditions	Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1 TWA 200 ppm
Skin notation	TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.	
Personal protective equipment	Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.	

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

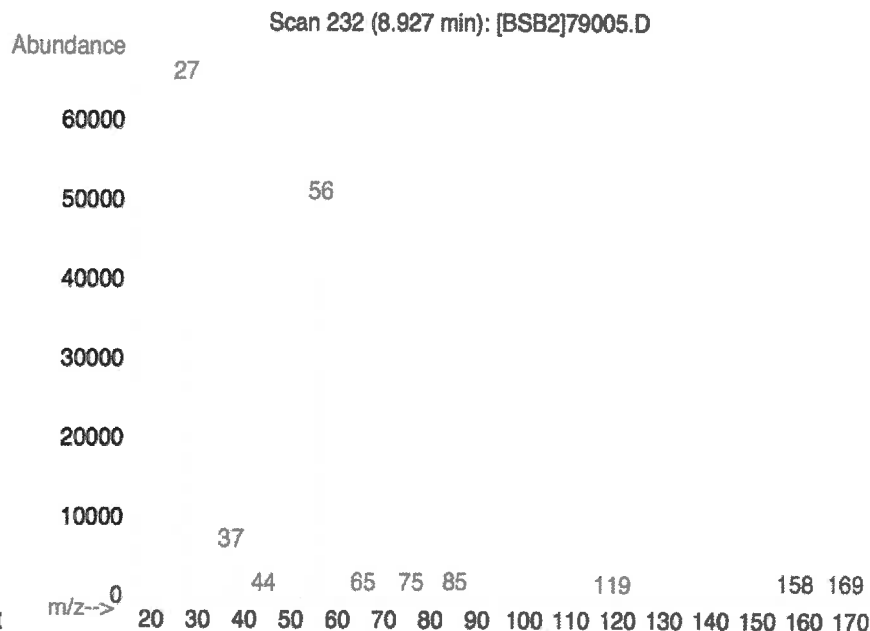
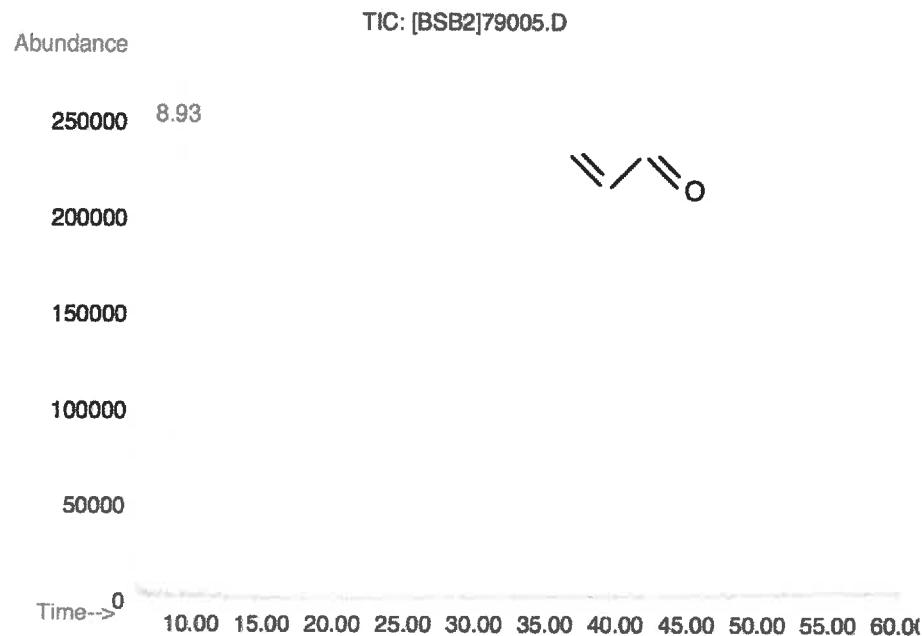
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm	
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.	Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.			

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

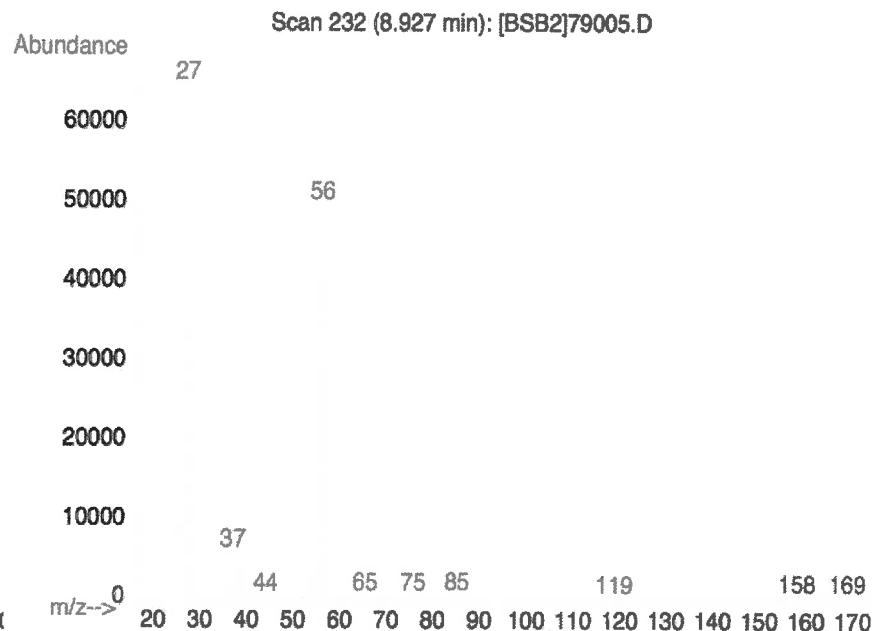
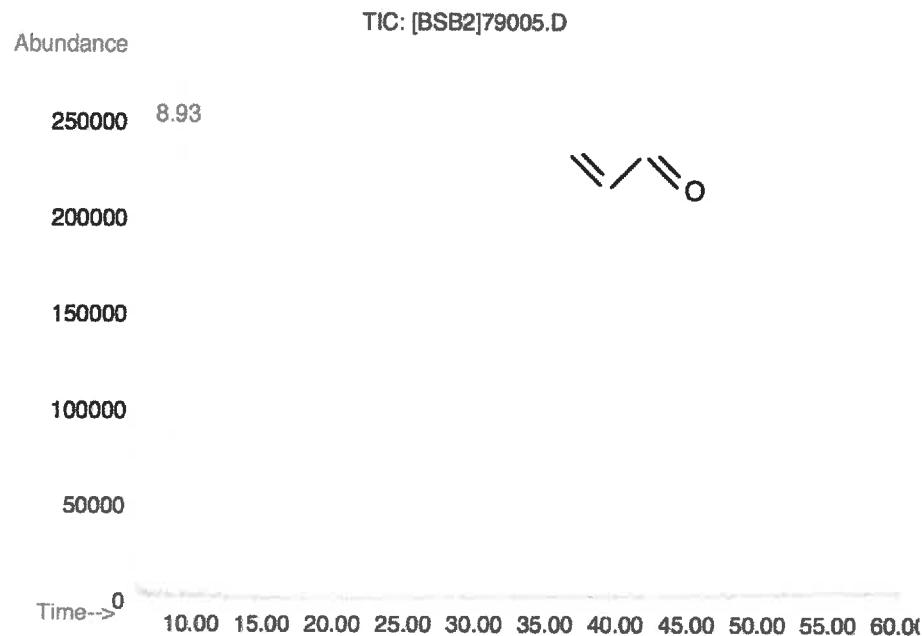
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	CAS#	OSHA PEL (TWA)
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

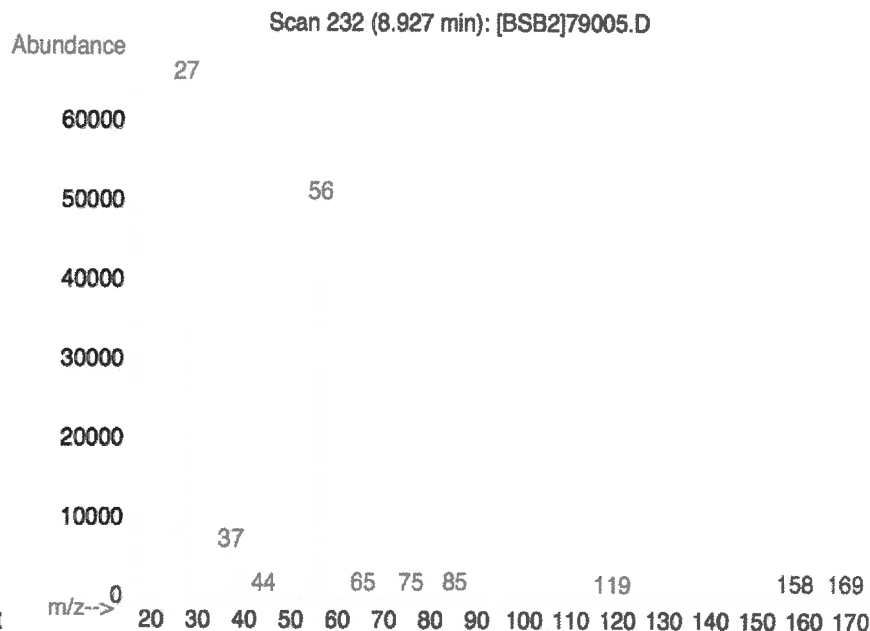
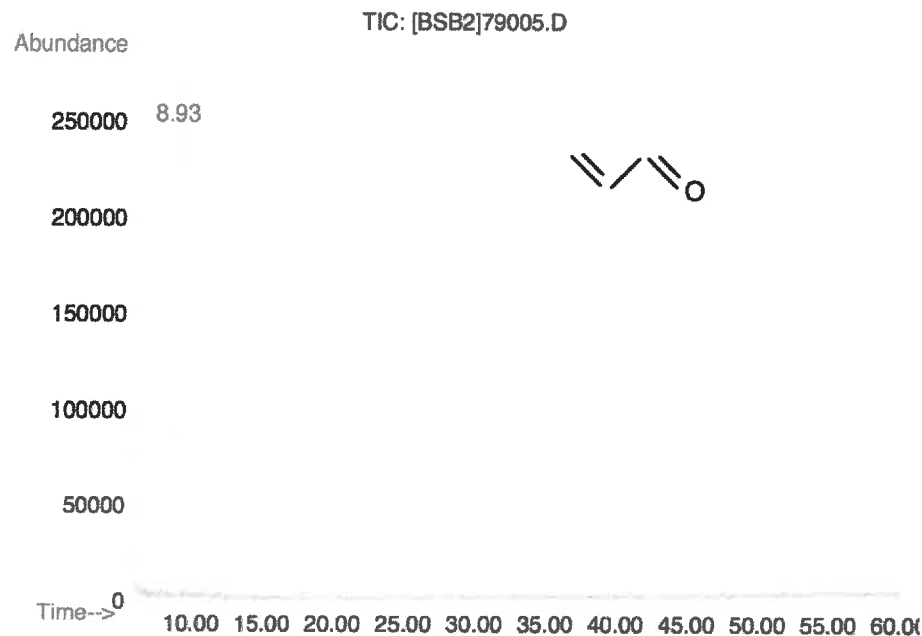
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	orl-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)		NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water		Completely miscible		NA
Appearance and Odor		CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



222 03/18/24



CERTIFIED WEIGHT REPORT

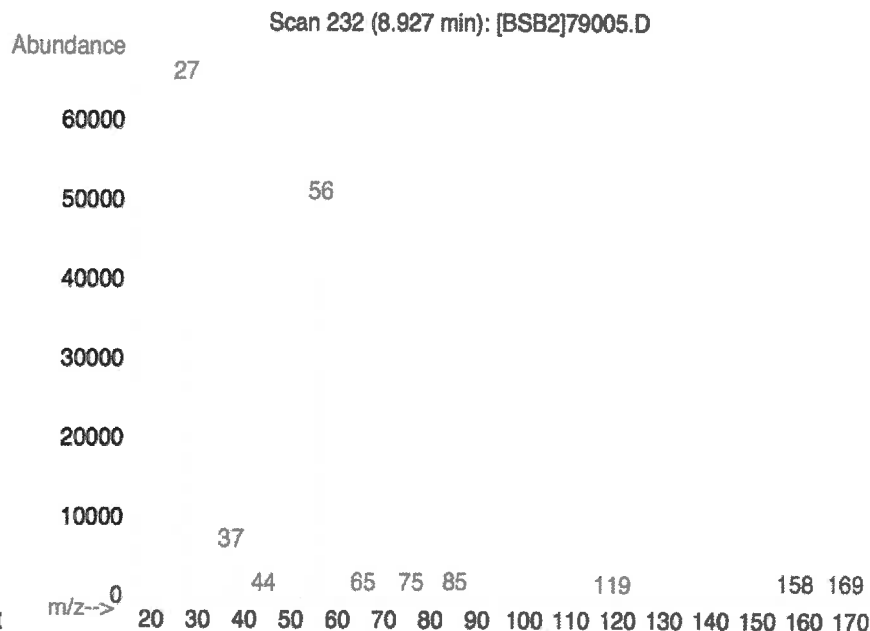
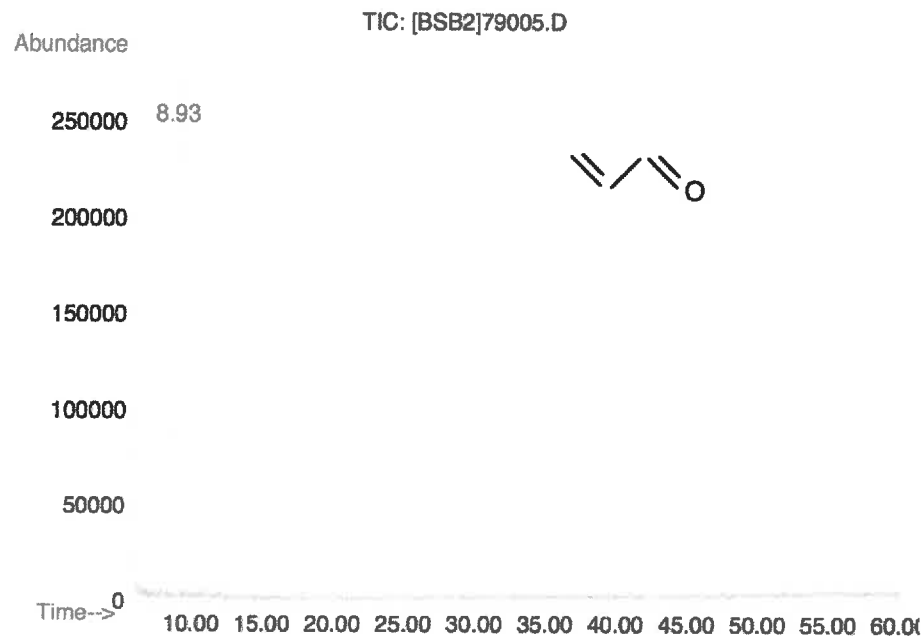
Part Number: 91980
Lot Number: 031725
Description: AcroleinSolvent(s): Water
Lot#: 072324QV14895 to
V14899Expiration Date: 041725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		031725
Formulated By:	Lawrence Barry	DATE
		031725
Reviewed By:	Pedro L. Rentas	DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded	SDS Information		
									Uncertainty (+/-) (µg/mL)	(Solvent Safety Info. On Attached pg.)	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05170	5004.1	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C (Time 2 = 8.75 min.)
Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately.
Long term storage is not recommended. Please contact our technical department if further information is required.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN WATER

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr. Hamden CT, 06514	Emergency Telephone International	1-352-323-3500
		Date Prepared/Revised	January 1, 2025

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

P271	Use in ventilated area	H315	Causes skin and eye irritation.
P302,332	If on skin, wash with soap and water	P280	Use gloves, eye protection/face shield
		P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Water	CAS#: 7732-18-5	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous Decomposition products	Carbon oxides

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water	CAS#: 7732-18-5	TWA: 500 ppm
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		Eye protection.

Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point	100°C	Specific Gravity (H2O = 1)	1
Vapor Pressure (mm Hg)		Melting Point	

Vapor Density (AIR = 1)	NA	Evaporation rate (Butyl Acetate = 1)	0°C
Solubility in Water	Completely miscible	NA	NA
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	NA
Conditions to avoid	NA
Materials to avoid	NA
Hazardous decomposition products - No data available	

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat	NA
LC50 Inhalation - Rat	NA
LD50 Dermal - Guinea pig	NA
Causes skin irritation.	
Eye irritation	

Section XII. ECOLOGICAL INFORMATION

LC50	NA
EC50	NA

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
Not dangerous goods	Not dangerous goods
Proper shipping name: Water	Proper shipping name: Water

Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 091424
Description: AcroleinSolvent(s):
Water Lot# 072324QExpiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTBWeight(s) shown below were combined and diluted to (mL): 10.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Formulated By:	Justin Dippold
091424 DATE	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance TIC: [BSB2]79005.D

Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



Abundance

27

60000

50000

40000

30000

20000

10000

m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

37

44

65

75

85

119

158 169

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM

Dec 09/17/24

2 vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **091424**
Description: **Acrolein**Solvent(s):
Water Lot#
072324Q

<i>Justin Dippold</i>	
Formulated By:	Justin Dippold
091424 DATE	
<i>Pedro L. Rentas</i>	
Reviewed By:	Pedro L. Rentas
091424 DATE	

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. Acrolein	5	103755V10F	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

Method: GC6MSD-1. Detector: Mass Selective Detector (Scan mode). Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Oven Profile: Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2 = 200°C (Time 2 = 8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Analyst: Pedro Rentas. NOTE: Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

Abundance TIC: [BSB2]79005.D

Abundance Scan 232 (8.927 min): [BSB2]79005.D

250000 8.93

200000

150000

100000

50000

Time--> 0

10.00 15.00 20.00 25.00 30.00 35.00 40.00 45.00 50.00 55.00 60.00



m/z--> 0

20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

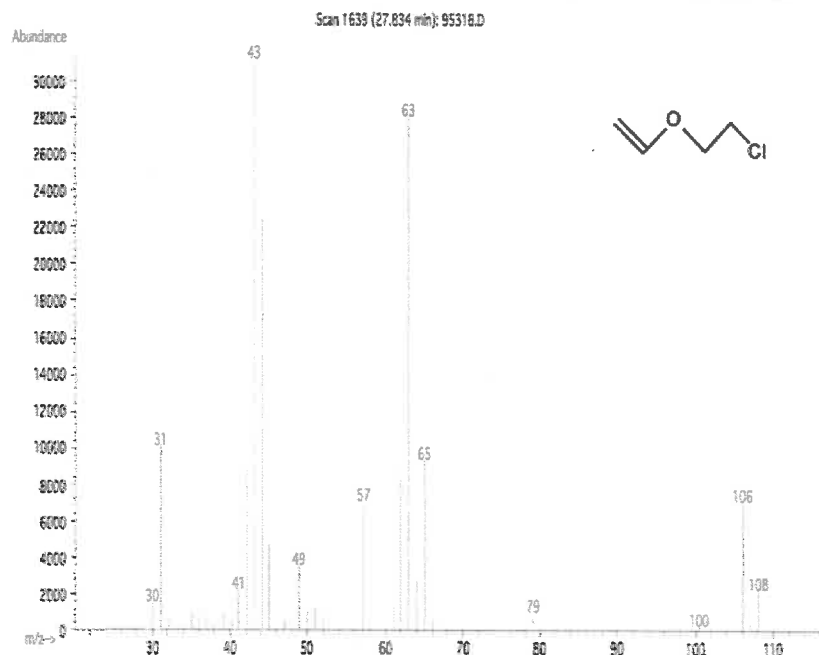
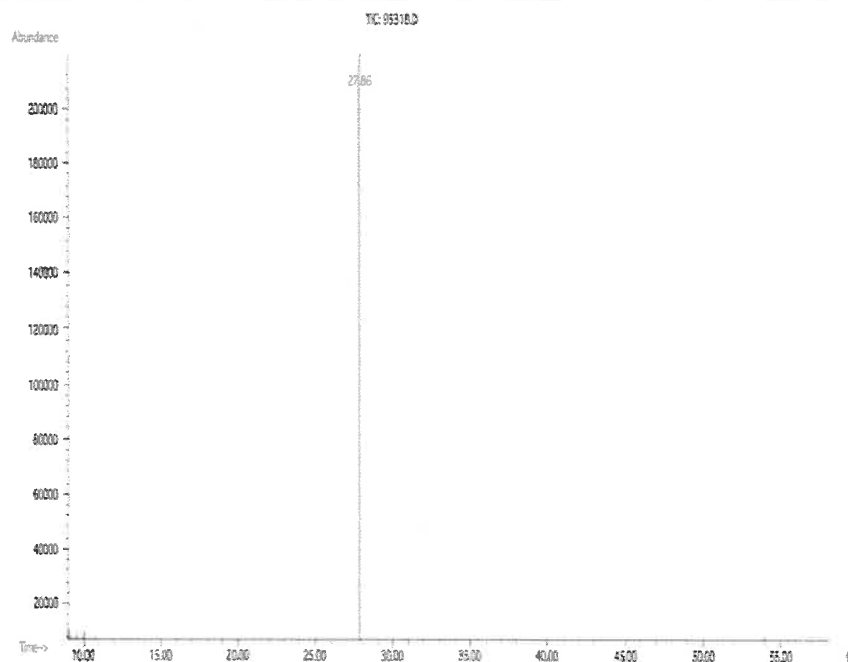
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

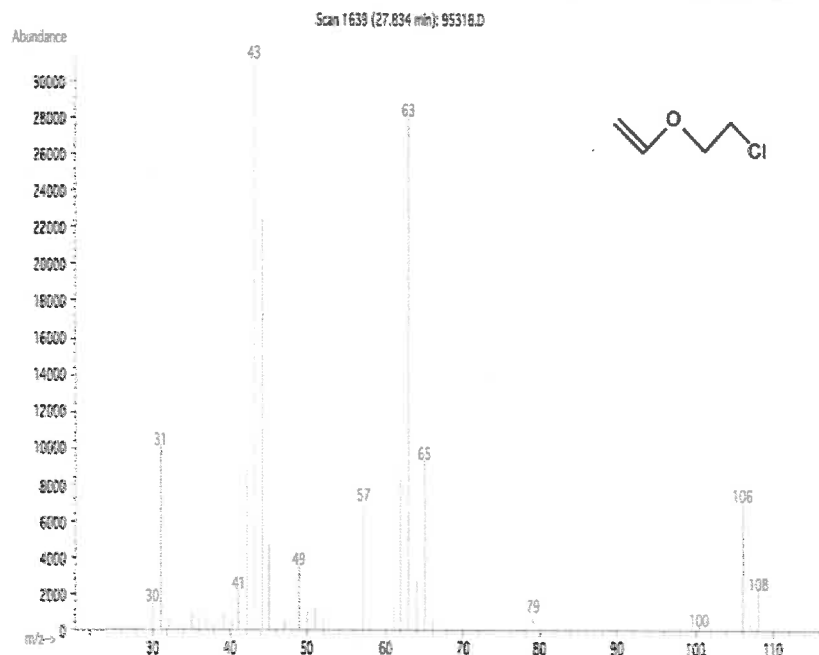
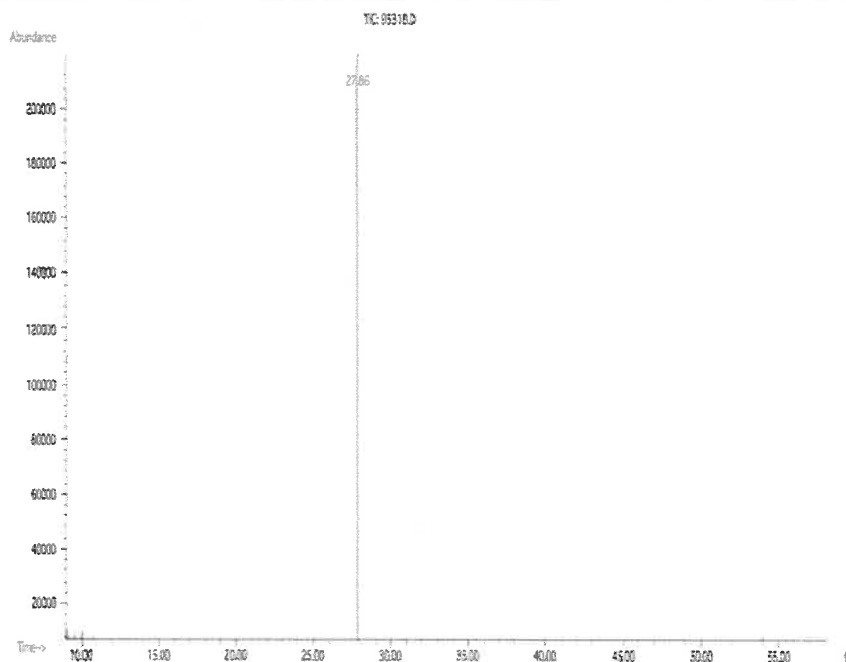
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min.,
Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H2O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

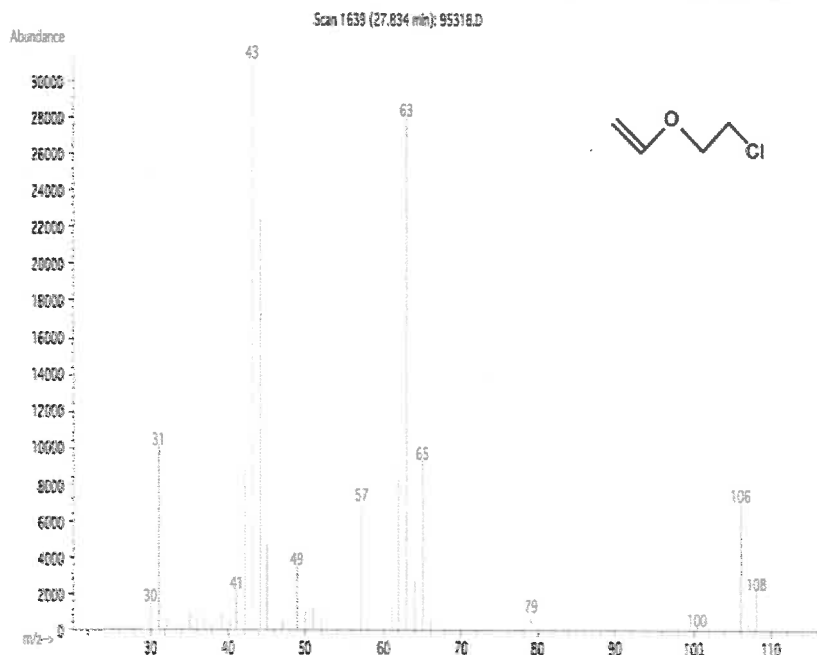
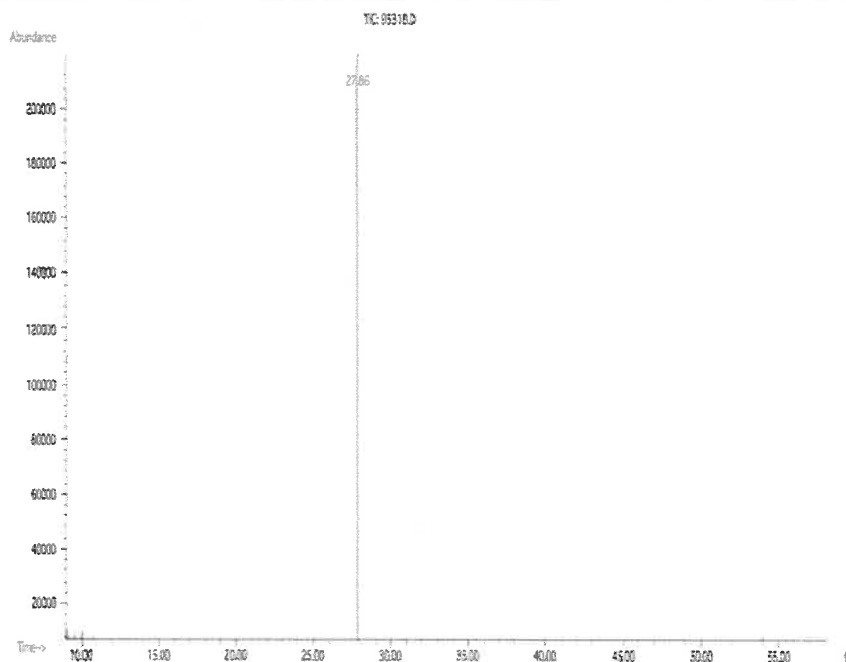
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



Certified Reference Material CRM



CERTIFIED WEIGHT REPORT

Part Number: **95318**
Lot Number: **120524**
Description: **2-Chloroethyl vinyl ether**

Solvent(s):
Methanol

Lot#
EJ143-US

Expiration Date: **120527**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**

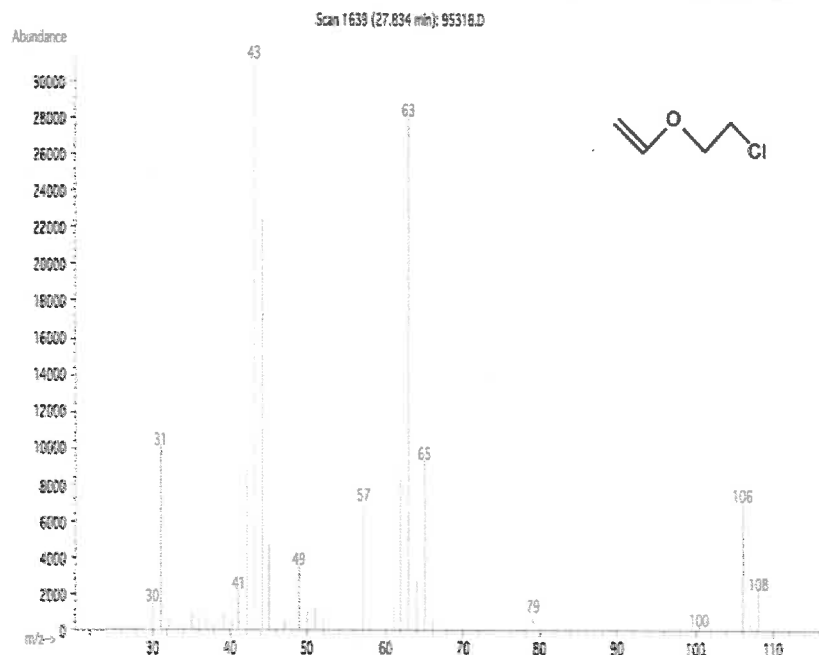
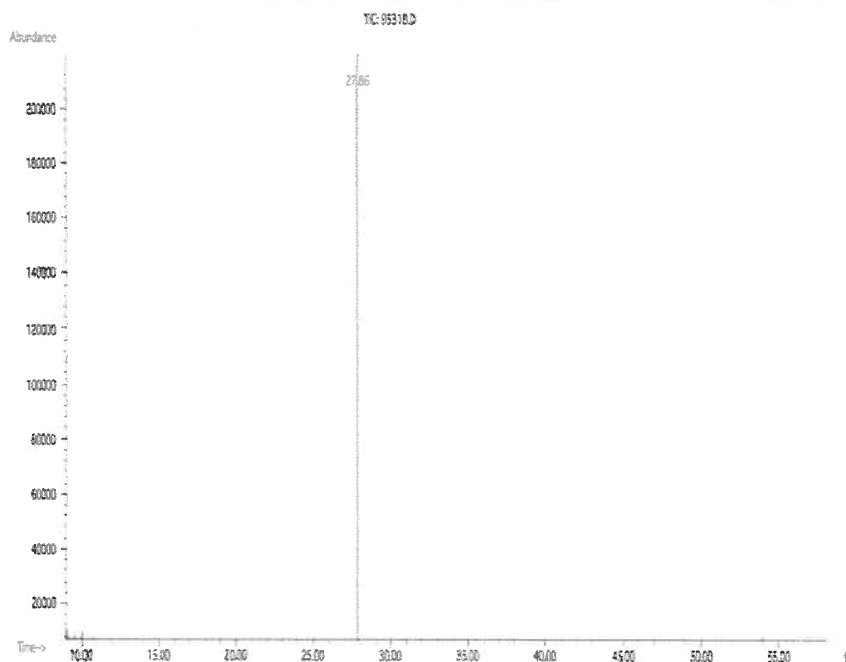
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Prashant Chauhan 120524
Formulated By: Prashant Chauhan DATE
Pedro L. Rentas 120524
Reviewed By: Pedro L. Rentas DATE

✓ 14630 to
✓ 14649

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight (g)	Actual Weight (g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.)		
										CAS#	OSHA PEL (TWA)	LD50
1. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50536	0.50550	10002.9	40.5	110-75-8	N/A	ori-rat 250mg/kg

Method: GC6MSD-1.M. Detector: MSD. Column: (60m X 0.25mm X 1.5 µm). Oven Profile: Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp = 200°C, Detector B Temp = 220°C. Analyst: Candice Warren.



- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Safety Data Sheet (SDS)

GHS/OSHA Compliant

Section I Product and Company Identification

IDENTITY ANALYTICAL STANDARD DISSOLVED IN METHANOL

Manufacturer's Name	ABSOLUTE STANDARDS INC	Emergency Telephone USA & CANADA	1-800-535-5053
Address	44 Rossotto Dr.	Emergency Telephone International	1-352-323-3500
	Hamden CT, 06514	Date Prepared/Revised	January 1, 2024

Section II - Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

H225	Highly Flammable Liquid and Vapor	H301, 311, 331	Toxic if swallowed, skin contact, inhaled
H370	Cause damage to organs	H351	Suspected of causing cancer
P271	Use in ventilated area	P280	Use gloves, eye protection/face shield
P302,332	If on skin, wash with soap and water	P305,351,338	If in eyes, remove contacts, rinse with water



Signal Word: DANGER

Section III - Composition

Components (Specific Chemical Identity; Common Name(s))		% (optional)
Methanol	METHYL ALCOHOL	> 97

See Certified Weight Report For Other Analytes Present At Trace Quantities.

INTENDED USE: REFERENCE MATERIAL

Section IV. FIRST AID MEASURES

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance. Move to safe area.
If inhaled	If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact	Wash with soap and water. Consult a physician.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

Section V. FIREFIGHTING MEASURES

Flammability	Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Protective equipment for fire	Wear self contained breathing apparatus for fire fighting if necessary.

Section VI. ACCIDENTAL RELEASE MEASURES

Personal precautions	Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Clean up	Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13).

Section VII. HANDLING AND STORAGE

Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation. Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge.
Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol	67-56-1	TWA 200 ppm
Skin notation		TWA 200 ppm
Potential for skin absorption, ingestion and inhalation.		
Personal protective equipment	Respiratory protection	Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.		

Section IX - Physical/Chemical Characteristics

Boiling Point	65°C	Specific Gravity (H ₂ O = 1)	0.79
Vapor Pressure (mm Hg)	96	Melting Point	-98°C
Vapor Density (AIR = 1)	1.11	Evaporation rate (Butyl Acetate = 1)	4.6
Solubility in Water	COMPLETE		
Appearance and Odor	CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.		

Section X. STABILITY AND REACTIVITY

Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Vapours may form explosive mixture with air.
Conditions to avoid	Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid	Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions.	- Carbon oxides

Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

LC50 15,400 mg/l - 96 h
EC50 24,500.00 mg/l - 48 h
EC100 10,000.00 mg/l - 24 h

Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

Section XIV. TRANSPORT INFORMATION

DOT (US)	IATA
UN number: 1230 Class: 3 Packing group: II	UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol	Proper shipping name: Methanol

Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30067 **Lot No.:** A0191805

Description : 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	2,483.9 µg/mL	+/- 139.5488

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

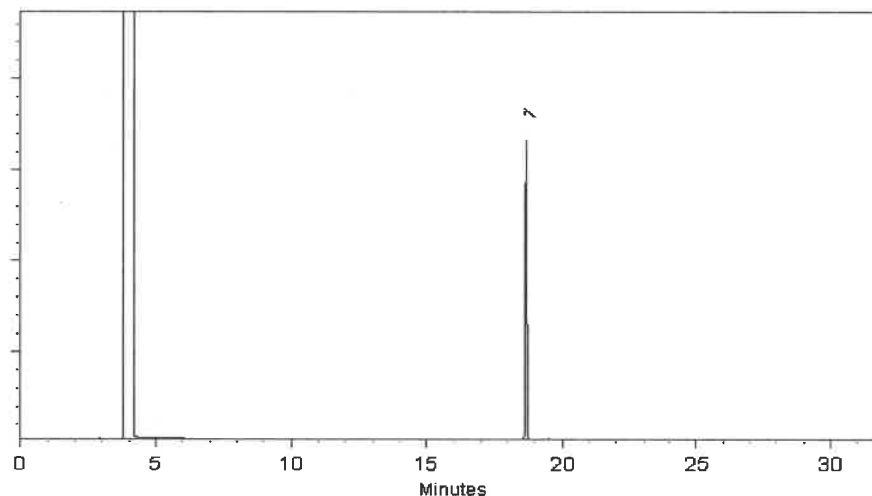
FID

Split Vent:

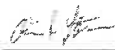
40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Alicia Leathers - Operation Technician I

Date Mixed: 17-Nov-2022

Balance Serial # B251644995


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

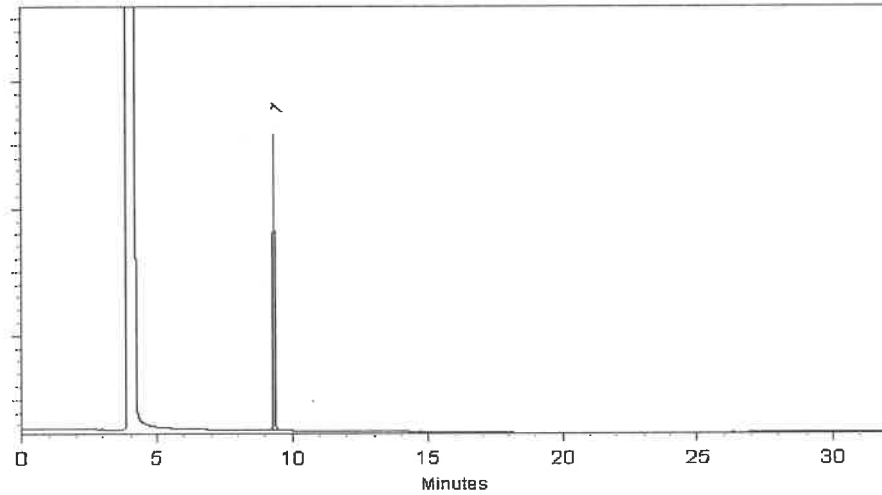
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022

Balance Serial # B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071

Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

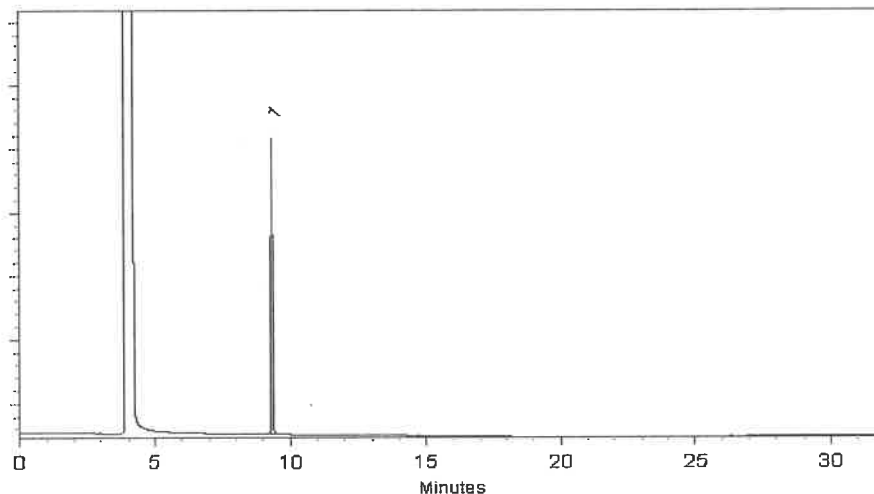
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

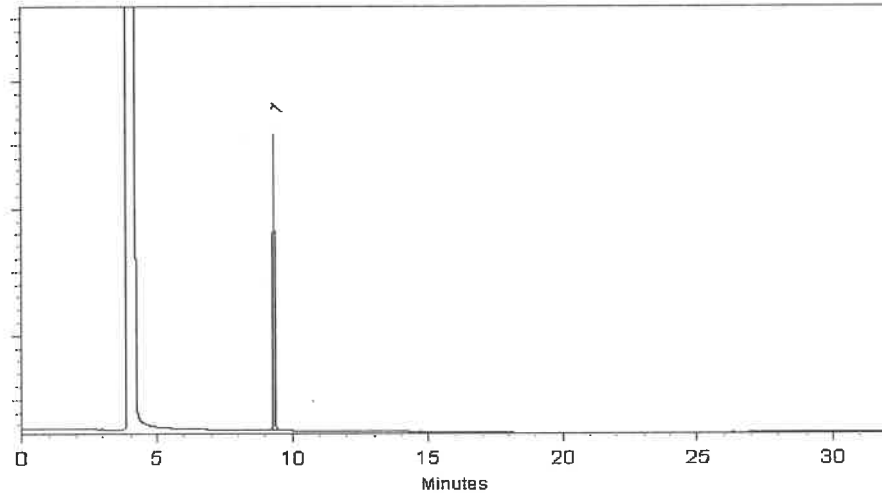
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022

Balance Serial # B707717271

Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30225 **Lot No.:** A0193071
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : December 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Bromochloromethane	74-97-5	00008541	99%	2,018.0 µg/mL	+/- 113.3890

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

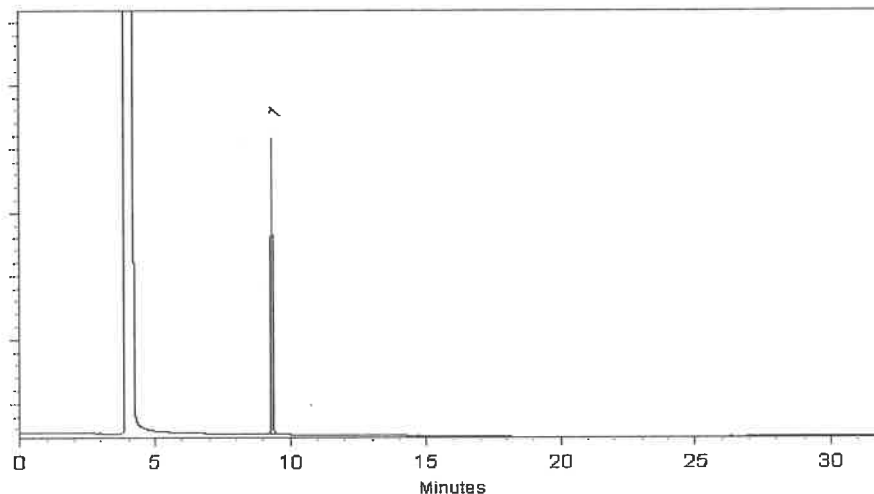
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2022 Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 03-Jan-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555582 **Lot No.:** A0196865

Description : Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol,
1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2-Dichloroethane-d4	17060-07-0	PR-32845	99%	25,036.0 µg/mL	+/- 1,417.9179
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	184975	99%	25,132.0 µg/mL	+/- 1,423.3549
3	Dibromofluoromethane	1868-53-7	022013	99%	25,040.0 µg/mL	+/- 1,418.1445
4	Toluene-d8	2037-26-5	PR-33397	99%	25,028.0 µg/mL	+/- 1,417.4648

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 11-Apr-2023

Balance: 1127510105

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618

Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** -20°C or colder

Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

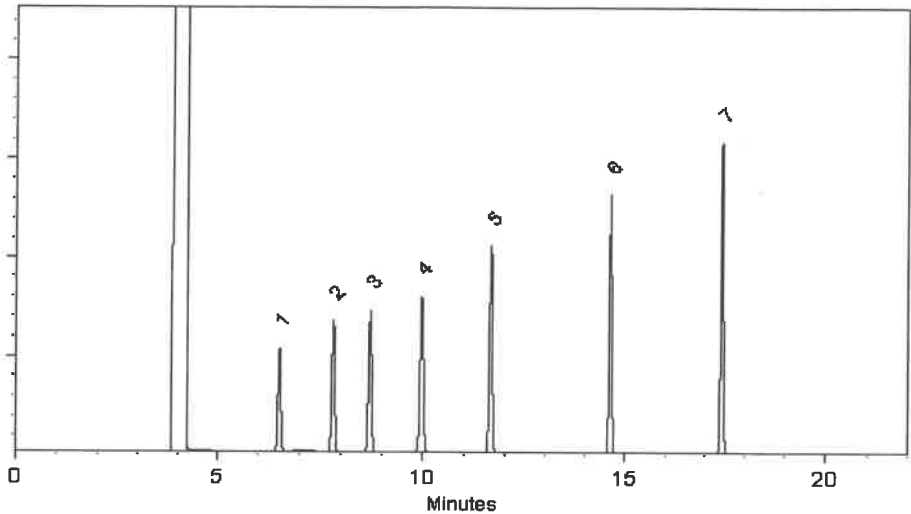
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30489 **Lot No.:** A0209618
Description : 8260B Acetates Mix
8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : September 30, 2025 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty* (95% C.L.; K=2)
1	Methyl acetate	79-20-9	SHBP3100	99%	2,019.3 µg/mL	+/- 69.7974
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,016.8 µg/mL	+/- 69.7112
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,010.7 µg/mL	+/- 69.4979
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,016.0 µg/mL	+/- 69.6822
5	Propyl acetate	109-60-4	P8XLN	99%	2,008.0 µg/mL	+/- 69.4057
6	Butyl acetate	123-86-4	SHBP6314	99%	2,007.3 µg/mL	+/- 69.3826
7	Amyl acetate	628-63-7	41325/1	97%	2,004.7 µg/mL	+/- 69.2905

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

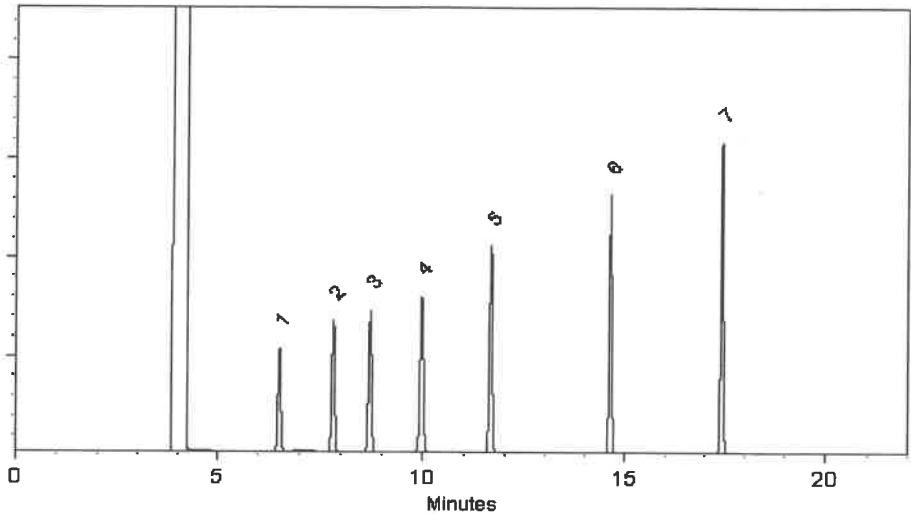
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 28-Mar-2024 Balance Serial # B707717271

Dylan Murphy
Dylan Murphy - Operations Technician I

Date Passed: 01-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555581 **Lot No.:** A0210184

Description : Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

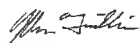
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	25,212.0 µg/mL	+/- 1,427.8857
2	1,4-Difluorobenzene	540-36-3	MKCS8657	99%	25,220.0 µg/mL	+/- 1,428.3388
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,116.0 µg/mL	+/- 1,422.4487
4	Pentafluorobenzene	363-72-4	MKCR9383	99%	25,180.0 µg/mL	+/- 1,426.0734

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%


John Friedline - Operations Technician I

Date Mixed: 11-Apr-2024

Balance: 1127510105

REVISED
By Restek Review of 11-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

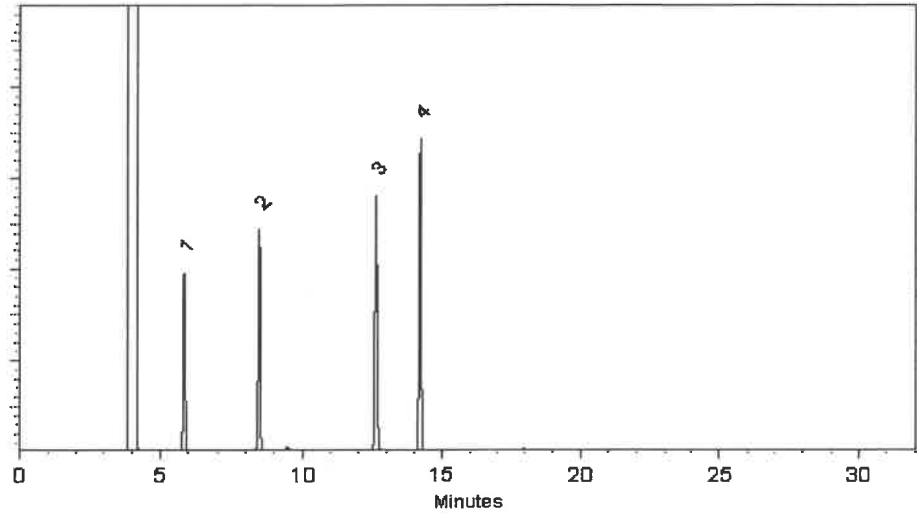
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

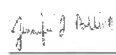


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

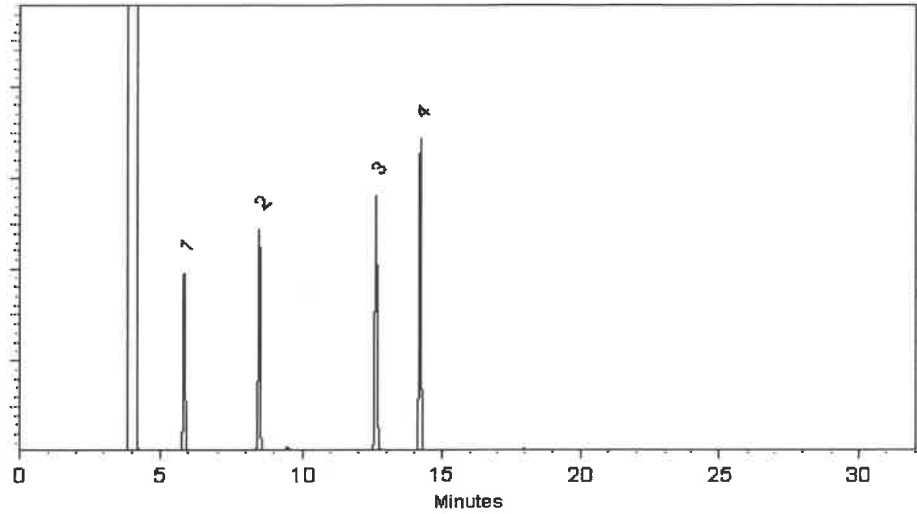
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

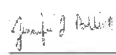


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Dec 12/17/24
30 v. 4
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus
V14697-to-14726



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30006 **Lot No.:** A0210618
Description : VOA Calibration Mix #1
VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : July 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Acetone	67-64-1	SHBQ8504	99%	5,014.8 µg/mL	+/- 173.2883
2	2-Butanone (MEK)	78-93-3	SHBQ4704	99%	5,012.4 µg/mL	+/- 173.2054
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP9200	99%	5,011.6 µg/mL	+/- 173.1777
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,013.0 µg/mL	+/- 173.2261

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol/Water (90:10)
CAS # 67-56-1/7732-18-5
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

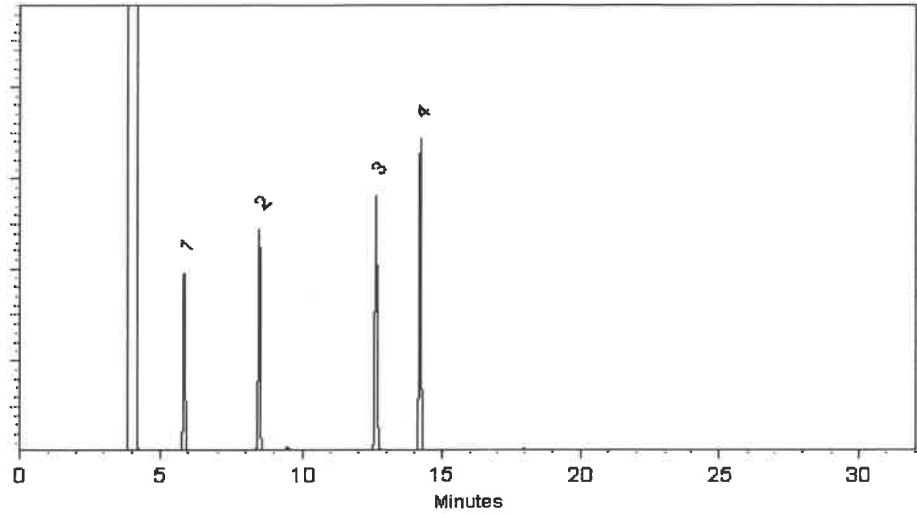
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

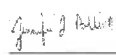


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 22-Apr-2024

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Apr-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
30 ml
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826
Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2031 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

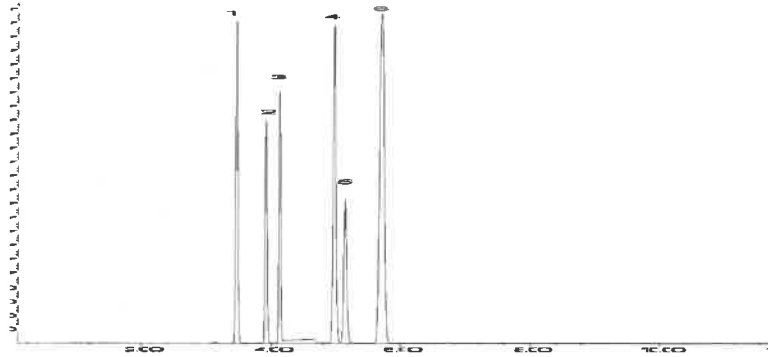
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

Rec 12/17/24
CERTIFIED REFERENCE MATERIAL
30 ml

Certificate of Analysis

chromatographic plus

V14727 to
V14756



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30042 **Lot No.:** A0216826

Description : 502.2 Calibration Mix #1
502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2031 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Dichlorodifluoromethane (CFC-12)	75-71-8	00022922	99%	2,000.9 µg/mL	+/- 112.4144
2	Chloromethane (methyl chloride)	74-87-3	00022694	99%	2,000.7 µg/mL	+/- 112.3998
3	Vinyl chloride	75-01-4	00015559	99%	2,000.3 µg/mL	+/- 112.3779
4	Bromomethane (methyl bromide)	74-83-9	00017022	99%	2,001.8 µg/mL	+/- 112.4650
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.1 µg/mL	+/- 112.3700
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCJ8658	99%	2,000.7 µg/mL	+/- 112.3992

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

Carrier Gas:

helium-constant flow 2.0 mL/min.

Temp. Program:

40°C (hold 6 min.) to 100°C
@ 6°C/min.

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

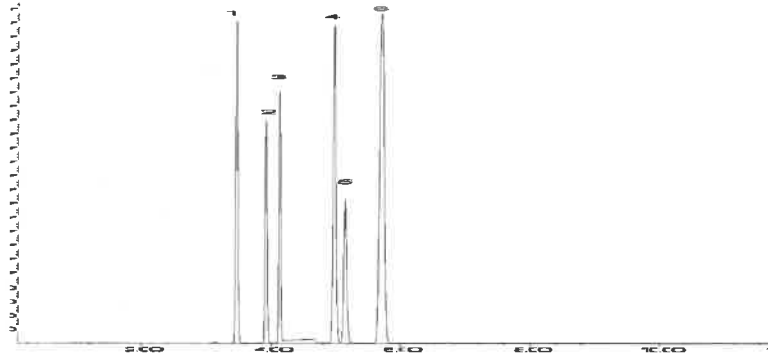
MSD

Split Vent:

Split ratio 10:1

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckal - Mix Technician

Date Mixed: 23-Sep-2024

Balance Serial # B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 04-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

✓ 14842 to 14846



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 30470 **Lot No.:** A0217535
Description : tert-Butanol Standard
tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : October 31, 2027 **Storage:** 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	tert-Butanol (TBA)	75-65-0	SHBQ8002-1	99%	50,007.5 µg/mL	+/- 717.6137

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

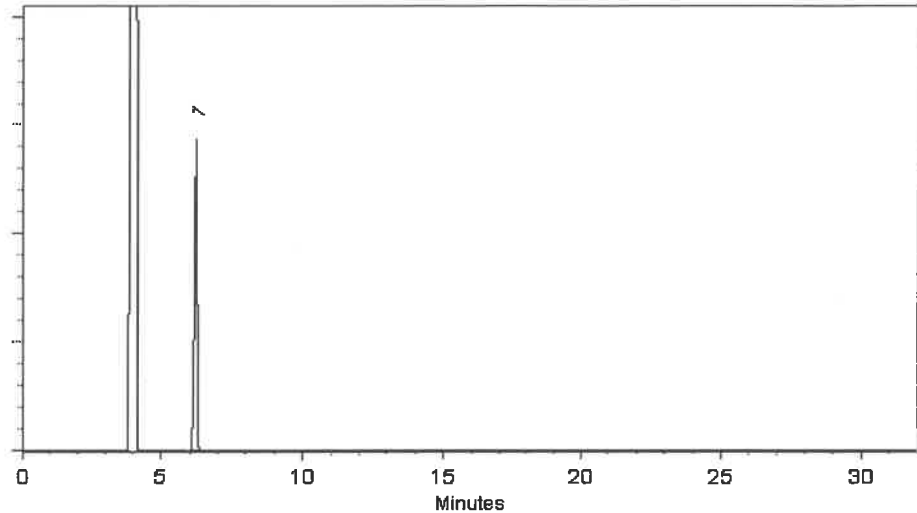
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

A.O.E.
Aaron Enyart - Operations Tech I

Date Mixed: 07-Oct-2024

Balance Serial # B251644995

Brittany Federinko
Brittany Federinko - Operations Tech I

Date Passed: 09-Oct-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/ μ ECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

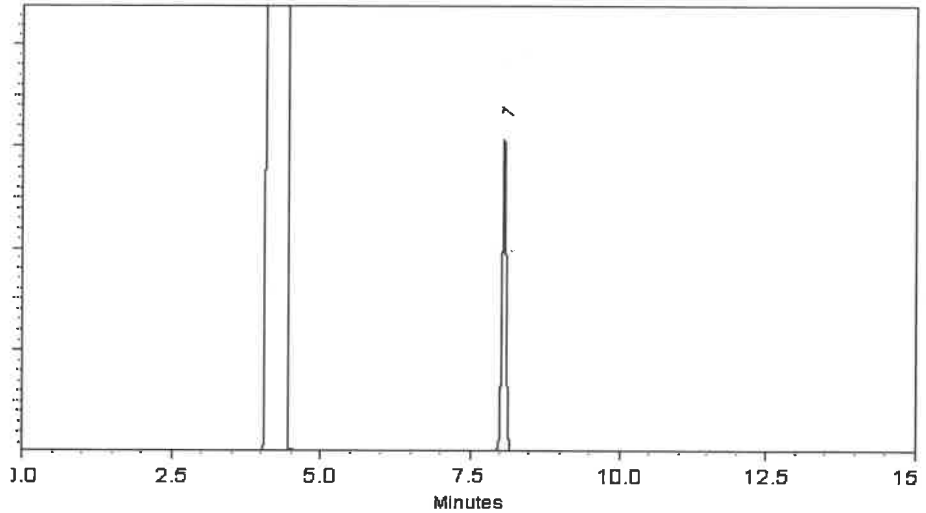
FID

Split Vent:

40 ml/min

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105

Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pollock at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

2014 Dec 01/08/21
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

V14803 - V14822



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555408-SL **Lot No.:** A0220471
Description : Custom Vinyl Acetate Standard
Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2026 **Storage:** -20°C or colder
Handling: This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Vinyl acetate	108-05-4	RD240423RSR	99%	8,066.0 µg/mL	+/- 278.7979

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Tech Tips:

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

Quality Confirmation Test

Column:

105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:

hydrogen-constant pressure 11.0 psi.

Temp. Program:

40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:

200°C

Det. Temp:

250°C

Det. Type:

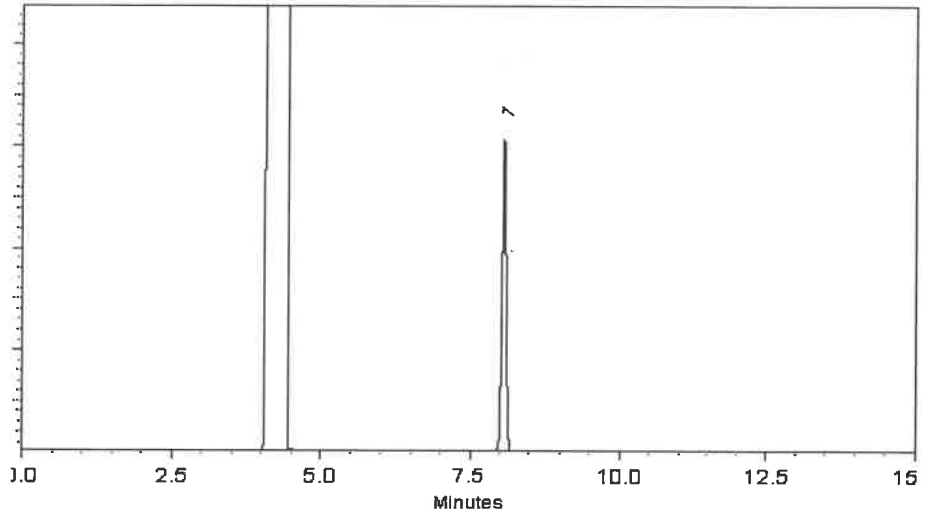
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

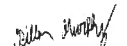


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 24-Dec-2024

Balance Serial # 1127510105


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pabon at 7:12 am, Jan 05, 2025

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (µeq/g)	≤ 0.3	0.2
Titration Base (µeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis - Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



V14883
V14884

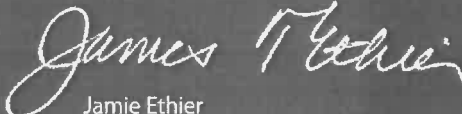
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	Conforms

For Laboratory, Research, or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC


Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087, U.S.A. Phone 610.386.1700
Page 1 of 1



SHIPPING DOCUMENTS

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Parsons
ADDRESS: 301 Plainfield Rd
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore
PHONE: 315-552-9738 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Con Ed 11th Ave
PROJECT NO.: LOCATION: 11th Ave New York, NY
PROJECT MANAGER: Stephen Liberatore
e-mail: Stephen.Liberatore@parsons.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Parsons PO#: 454053
ADDRESS: 301 Plainfield Road
CITY Syracuse STATE: NY ZIP: 13212
ATTENTION: Stephen Liberatore PHONE: 315-552-9738

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) 5-day rush DAYS*
HARDCOPY (DATA PACKAGE): 5-day rush DAYS*
EDD: 5-day rush DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☒ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B
+ Raw Data ☐ Other
☐ EDD FORMAT

1. TPH ~~7/11/13~~
2. TCLP Pesticide/Herbicide
3. Flash Point/TCLP VOC
4. SVOC-TCLP BNA-2013
5. TCLP BNA/Extractive
6. pH Reactive Gaseous/Soluble
7. OC-TCLP BNA-10/11
8. Mercury Methyl-TCLP
9. TCLP ICP Metals/Mercury

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	WC-Liquid-20250404	L	X		4/1/25	0940	16	X	X	X	X	X	X	X	X	X		
2.																		
3.																		
4.																		
5.																		
6.																		
7.																		
8.																		
9.																		
10.																		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <u>Francine Phillips</u>	DATE/TIME: <u>1400</u> <u>4/1/25</u>	RECEIVED BY: <u>[Signature]</u> <u>4-4-25</u>	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>2.4</u> °C
RELINQUISHED BY SAMPLER: 2.	DATE/TIME:	RECEIVED BY:	Comments: <u>Include Kirsten.valentini@parsons.com</u>
RELINQUISHED BY SAMPLER: 3. <u>[Signature]</u>	DATE/TIME: <u>1630</u> <u>4-4-25</u>	RECEIVED BY: 3.	Temp <u>2.4</u> °C Adjustment Factor <u>+1</u> IR Gun # <u>1</u>
Page <u>1</u> of <u>1</u>			CLIENT: ☐ Hand Delivered ☐ Other
			Shipment Complete ☐ YES ☐ NO

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1739 PARS02	Order Date : 4/4/2025 2:08:31 PM	Project Mgr :
Client Name : PARSONS Engineering of I	Project Name : Con Edison - 11th Ave-Wes	Report Type : ~~Results Only~~ Level 4
Client Contact : Stephen Liberatore	Receive DateTime : 4/4/2025 ~~12:00:00 AM~~	EDD Type : Excel NY
Invoice Name : PARSONS Engineering of I	Purchase Order : 04:30 PM	Hard Copy Date :
Invoice Contact : Stephen Liberatore	yg 04/11/25	Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1739-01	WC-LIQUID-20250404	Water	04/04/2025	09:40	VOC-TCLVOA-10		8260D		10 Bus. Days

Relinquished By :



Date / Time : 4/7/25 0915

Received By :



Date / Time : 4/7/25 09:15



Storage Area : VOA Refridgerator Room