

Cover Page

Order ID : Q2249

Project ID : Former Schlumberger STC PTC Site D3868221

Client : JACOBS Engineering Group, Inc.

Lab Sample Number

Q2249-01

Client Sample Number

MW-06-6.5-060525

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

Signature : _____

Date: 6/17/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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CASE NARRATIVE

JACOBS Engineering Group, Inc.

Project Name: Former Schlumberger STC PTC Site D3868221

Project # N/A

Order ID # Q2249

Test Name: VOCMS Group3

A. Number of Samples and Date of Receipt:

1 Water sample was received on 06/05/2025.

B. Parameters

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

C. Analytical Techniques:

The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UI. The analysis of VOCMS Group3 was based on method 8260D.

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 except for MW-06-6.5-060525, MW-06-6.5-060525RE, sample was reanalyzed to confirm the failure and reported.

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 File ID VX046657.D met the requirements except for Vinyl Chloride is failing marginally low while 1,2-Dichloroethane-d4 which is not our target compound, therefore no corrective action taken.

The Tuning criteria met requirements.



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Sample MW-06-6.5-060525 was diluted at straight dilution after checking past history of this sample.

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.

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2249

MATRIX: Water

METHOD: 8260D

		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 File ID VX046657.D met the requirements except for Vinyl Chloride is failing marginally low while 1,2-Dichloroethane-d4 which is not our target compound, therefore no corrective action taken.		✓	
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: The Internal Standards Areas met the acceptable requirements except for MW-06-6.5-060525, MW-06-6.5-060525RE, sample was reanalyzed to confirm the failure and reported.		✓	
10.	Analysis Holding Time Met If not met, list number of days exceeded for each sample:			✓

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NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

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

NA NO YES

ADDITIONAL COMMENTS:

Sample MW-06-6.5-060525 was diluted at straight dilution after checking past history of this sample.

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.

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2249

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 Custody

✓

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: 06/17/2025

LAB CHRONICLE

OrderID:	Q2249	OrderDate:	6/5/2025 4:19:00 PM
Client:	JACOBS Engineering Group, Inc.	Project:	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	Location:	--Select--,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2249-01	MW-06-6.5-060525	Water	VOCMS Group3	8260-Low	06/05/25		06/11/25	06/05/25
Q2249-01RE	MW-06-6.5-060525RE	Water	VOCMS Group3	8260-Low	06/05/25		06/12/25	06/05/25

Hit Summary Sheet
SW-846

SDG No.: Q2249

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	MW-06-6.5-060525							
Q2249-01	MW-06-6.5-060525	Water	cis-1,2-Dichloroethene	14.2		1.90	10.0	ug/L
Q2249-01	MW-06-6.5-060525	Water	Trichloroethene	1300		0.93	10.0	ug/L
Q2249-01	MW-06-6.5-060525	Water	Tetrachloroethene	11.9		2.30	10.0	ug/L
			Total Voc :	1330				
			Total Concentration:	1330				
Client ID:	MW-06-6.5-060525RE							
Q2249-01RE	MW-06-6.5-060525	Water	cis-1,2-Dichloroethene	12.6		1.90	10.0	ug/L
Q2249-01RE	MW-06-6.5-060525	Water	Trichloroethene	1000		0.93	10.0	ug/L
Q2249-01RE	MW-06-6.5-060525	Water	Tetrachloroethene	8.10	J	2.30	10.0	ug/L
			Total Voc :	1020				
			Total Concentration:	1020				



QC SUMMARY

Surrogate Summary

SDG No.: **Q2249**

Client: **JACOBS Engineering Group, Inc.**

Analytical Method: **SW8260-Low**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
Q2249-01	MW-06-6.5-060525	1,2-Dichloroethane-d4	50	42.5	85	70 (74)	130 (125)
		Dibromofluoromethane	50	42.5	85	70 (75)	130 (124)
		Toluene-d8	50	53.4	107	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.5	111	70 (77)	130 (121)
Q2249-01RE	MW-06-6.5-060525RE	1,2-Dichloroethane-d4	50	45.9	92	70 (74)	130 (125)
		Dibromofluoromethane	50	48.7	97	70 (75)	130 (124)
		Toluene-d8	50	52.9	106	70 (86)	130 (113)
		4-Bromofluorobenzene	50	53.8	108	70 (77)	130 (121)
VX0611WBL02	VX0611WBL02	1,2-Dichloroethane-d4	50	49.7	99	70 (74)	130 (125)
		Dibromofluoromethane	50	50.4	101	70 (75)	130 (124)
		Toluene-d8	50	54.3	109	70 (86)	130 (113)
		4-Bromofluorobenzene	50	55.3	111	70 (77)	130 (121)
VX0611WBS02	VX0611WBS02	1,2-Dichloroethane-d4	50	44.0	88	70 (74)	130 (125)
		Dibromofluoromethane	50	47.8	96	70 (75)	130 (124)
		Toluene-d8	50	47.2	94	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.5	97	70 (77)	130 (121)
VX0611WBSD0	VX0611WBSD02	1,2-Dichloroethane-d4	50	44.5	89	70 (74)	130 (125)
		Dibromofluoromethane	50	47.4	95	70 (75)	130 (124)
		Toluene-d8	50	46.5	93	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.7	97	70 (77)	130 (121)
VX0612WBL01	VX0612WBL01	1,2-Dichloroethane-d4	50	46.2	92	70 (74)	130 (125)
		Dibromofluoromethane	50	48.5	97	70 (75)	130 (124)
		Toluene-d8	50	52.4	105	70 (86)	130 (113)
		4-Bromofluorobenzene	50	54.6	109	70 (77)	130 (121)
VX0612WBS01	VX0612WBS01	1,2-Dichloroethane-d4	50	41.5	83	70 (74)	130 (125)
		Dibromofluoromethane	50	48.0	96	70 (75)	130 (124)
		Toluene-d8	50	47.8	96	70 (86)	130 (113)
		4-Bromofluorobenzene	50	48.1	96	70 (77)	130 (121)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2249

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VX046639.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0611WBS02	Vinyl chloride	20	16.3	ug/L	81			70 (65)	130 (117)	
	1,1-Dichloroethene	20	18.6	ug/L	93			70 (74)	130 (110)	
	1,1-Dichloroethane	20	19.3	ug/L	97			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	19.6	ug/L	98			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	19.7	ug/L	99			70 (80)	130 (108)	
	Benzene	20	19.6	ug/L	98			70 (82)	130 (109)	
	1,2-Dichloroethane	20	19.1	ug/L	96			70 (80)	130 (115)	
	Trichloroethene	20	19.2	ug/L	96			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	21.8	ug/L	109			70 (83)	130 (112)	
	Tetrachloroethene	20	18.0	ug/L	90			70 (67)	130 (123)	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2249

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VX046640.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0611WBSD02	Vinyl chloride	20	15.8	ug/L	79	3		70 (65)	130 (117)	20 (19)
	1,1-Dichloroethene	20	18.3	ug/L	92	1		70 (74)	130 (110)	20 (20)
	1,1-Dichloroethane	20	19.2	ug/L	96	1		70 (78)	130 (112)	20 (20)
	cis-1,2-Dichloroethene	20	19.2	ug/L	96	2		70 (77)	130 (110)	20 (20)
	1,1,1-Trichloroethane	20	19.0	ug/L	95	4		70 (80)	130 (108)	20 (20)
	Benzene	20	19.5	ug/L	98	0		70 (82)	130 (109)	20 (15)
	1,2-Dichloroethane	20	19.7	ug/L	99	3		70 (80)	130 (115)	20 (20)
	Trichloroethene	20	18.8	ug/L	94	2		70 (77)	130 (113)	20 (15)
	1,1,2-Trichloroethane	20	21.8	ug/L	109	0		70 (83)	130 (112)	20 (20)
	Tetrachloroethene	20	18.0	ug/L	90	0		70 (67)	130 (123)	20 (15)

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2249

Client: JACOBS Engineering Group, Inc.

Analytical Method: SW8260-Low

Datafile : VX046660.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits High	RPD
VX0612WBS01	Vinyl chloride	20	15.1	ug/L	76			70 (65)	130 (117)	
	1,1-Dichloroethene	20	17.3	ug/L	86			70 (74)	130 (110)	
	1,1-Dichloroethane	20	17.8	ug/L	89			70 (78)	130 (112)	
	cis-1,2-Dichloroethene	20	18.1	ug/L	91			70 (77)	130 (110)	
	1,1,1-Trichloroethane	20	17.8	ug/L	89			70 (80)	130 (108)	
	Benzene	20	18.7	ug/L	94			70 (82)	130 (109)	
	1,2-Dichloroethane	20	17.6	ug/L	88			70 (80)	130 (115)	
	Trichloroethene	20	18.5	ug/L	93			70 (77)	130 (113)	
	1,1,2-Trichloroethane	20	20.6	ug/L	103			70 (83)	130 (112)	
	Tetrachloroethene	20	18.9	ug/L	95			70 (67)	130 (123)	

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0611WBL02

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2249

SAS No.: Q2249 SDG NO.: Q2249

Lab File ID: VX046637.D

Lab Sample ID: VX0611WBL02

Date Analyzed: 06/11/2025

Time Analyzed: 15:14

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
VX0611WBS02	VX0611WBS02	VX046639.D	06/11/2025
VX0611WBSD02	VX0611WBSD02	VX046640.D	06/11/2025
MW-06-6.5-060525	Q2249-01	VX046644.D	06/11/2025

COMMENTS: _____

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0612WBL01

Lab Name: CHEMTECH

Contract: JAC005

Lab Code: CHEM Case No.: Q2249

SAS No.: Q2249 SDG NO.: Q2249

Lab File ID: VX046659.D

Lab Sample ID: VX0612WBL01

Date Analyzed: 06/12/2025

Time Analyzed: 13:10

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
VX0612WBS01	VX0612WBS01	VX046660.D	06/12/2025
MW-06-6.5-060525RE	Q2249-01RE	VX046661.D	06/12/2025

COMMENTS: _____



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Fax : 908 789 8922

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
Lab File ID: VX046516.D BFB Injection Date: 06/06/2025
Instrument ID: MSVOA_X BFB Injection Time: 08:47
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	21
75	30.0 - 60.0% of mass 95	56.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (1) 1
174	50.0 - 100.0% of mass 95	65.2
175	5.0 - 9.0% of mass 174	5 (7.7) 1
176	95.0 - 101.0% of mass 174	62.7 (96.1) 1
177	5.0 - 9.0% of mass 176	4.2 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDIC005	VSTDIC005	VX046518.D	06/06/2025	09:42
VSTDIC020	VSTDIC020	VX046519.D	06/06/2025	10:18
VSTDIC050	VSTDIC050	VX046520.D	06/06/2025	10:40
VSTDIC100	VSTDIC100	VX046521.D	06/06/2025	11:02
VSTDIC150	VSTDIC150	VX046522.D	06/06/2025	11:25
VSTDIC001	VSTDIC001	VX046524.D	06/06/2025	12:57



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
Lab File ID: VX046635.D BFB Injection Date: 06/11/2025
Instrument ID: MSVOA_X BFB Injection Time: 14:01
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	21
75	30.0 - 60.0% of mass 95	52.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	1.1 (1.6) 1
174	50.0 - 100.0% of mass 95	66.1
175	5.0 - 9.0% of mass 174	5 (7.5) 1
176	95.0 - 101.0% of mass 174	63.6 (96.3) 1
177	5.0 - 9.0% of mass 176	4.5 (7) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046636.D	06/11/2025	14:46
VX0611WBL02	VX0611WBL02	VX046637.D	06/11/2025	15:14
VX0611WBS02	VX0611WBS02	VX046639.D	06/11/2025	15:58
VX0611WBSD02	VX0611WBSD02	VX046640.D	06/11/2025	16:25
MW-06-6.5-060525	Q2249-01	VX046644.D	06/11/2025	17:53



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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
Lab File ID: VX046656.D BFB Injection Date: 06/12/2025
Instrument ID: MSVOA_X BFB Injection Time: 09:44
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	19.2
75	30.0 - 60.0% of mass 95	51
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.6 (0.8) 1
174	50.0 - 100.0% of mass 95	73.3
175	5.0 - 9.0% of mass 174	5.9 (8.1) 1
176	95.0 - 101.0% of mass 174	72.3 (98.6) 1
177	5.0 - 9.0% of mass 176	4.6 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VX046657.D	06/12/2025	10:11
VX0612WBL01	VX0612WBL01	VX046659.D	06/12/2025	13:10
VX0612WBS01	VX0612WBS01	VX046660.D	06/12/2025	13:38
MW-06-6.5-060525RE	Q2249-01RE	VX046661.D	06/12/2025	14:04

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
 Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
 Lab File ID: VX046636.D Date Analyzed: 06/11/2025
 Instrument ID: MSVOA_X Time Analyzed: 14:46
 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	77468	5.56	133266	6.76	119186	10.06
UPPER LIMIT	154936	6.062	266532	7.263	238372	10.555
LOWER LIMIT	38734	5.062	66633	6.263	59593	9.555
EPA SAMPLE NO.						
MW-06-6.5-060525	113972	5.57	227958	6.78	237036	10.06
VX0611WBL02	73470	5.56	147517	6.77	153084	10.06
VX0611WBS02	79398	5.57	136732	6.78	125565	10.06
VX0611WBSD02	75823	5.56	130739	6.76	119823	10.06

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: JACO05
 Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
 Lab File ID: VX046636.D Date Analyzed: 06/11/2025
 Instrument ID: MSVOA_X Time Analyzed: 14:46
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60295	12.018				
UPPER LIMIT	120590	12.518				
LOWER LIMIT	30147.5	11.518				
EPA SAMPLE NO.						
MW-06-6.5-060525	124632 *	12.02				
VX0611WBL02	77047	12.02				
VX0611WBS02	66542	12.02				
VX0611WBSD02	62816	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.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: JACO05
Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
Lab File ID: VX046657.D Date Analyzed: 06/12/2025
Instrument ID: MSVOA_X Time Analyzed: 10:11
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	82603	5.56	125406	6.77	118101	10.06
UPPER LIMIT	165206	6.056	250812	7.269	236202	10.555
LOWER LIMIT	41301.5	5.056	62703	6.269	59050.5	9.555
EPA SAMPLE NO.						
MW-06-6.5-060525RE	130843	5.56	256854 *	6.77	263328 *	10.06
VX0612WBL01	92224	5.57	180952	6.78	188641	10.06
VX0612WBS01	85578	5.56	144622	6.77	130715	10.06

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: JACO05
 Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG NO.: Q2249
 Lab File ID: VX046657.D Date Analyzed: 06/12/2025
 Instrument ID: MSVOA_X Time Analyzed: 10:11
 GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

	IS4 AREA #	RT #				
12 HOUR STD	60636	12.018				
UPPER LIMIT	121272	12.518				
LOWER LIMIT	30318	11.518				
EPA SAMPLE NO.						
MW-06-6.5-060525RE	135069 *	12.02				
VX0612WBL01	95358	12.02				
VX0612WBS01	69016	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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-06-6.5-060525	SDG No.:	Q2249
Lab Sample ID:	Q2249-01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046644.D	10		06/11/25 17:53	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	14.2		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	1300		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	11.9		2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	42.5		70 (74) - 130 (125)	85%	SPK: 50
1868-53-7	Dibromofluoromethane	42.5		70 (75) - 130 (124)	85%	SPK: 50
2037-26-5	Toluene-d8	53.4		70 (86) - 130 (113)	107%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.5		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	114000	5.574			
540-36-3	1,4-Difluorobenzene	228000	6.775			
3114-55-4	Chlorobenzene-d5	237000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	125000	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\VX061125\
 Data File : VX046644.D
 Acq On : 11 Jun 2025 17:53
 Operator : JC/MD
 Sample : Q2249-01 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-6.5-060525

Quant Time: Jun 12 02:34:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

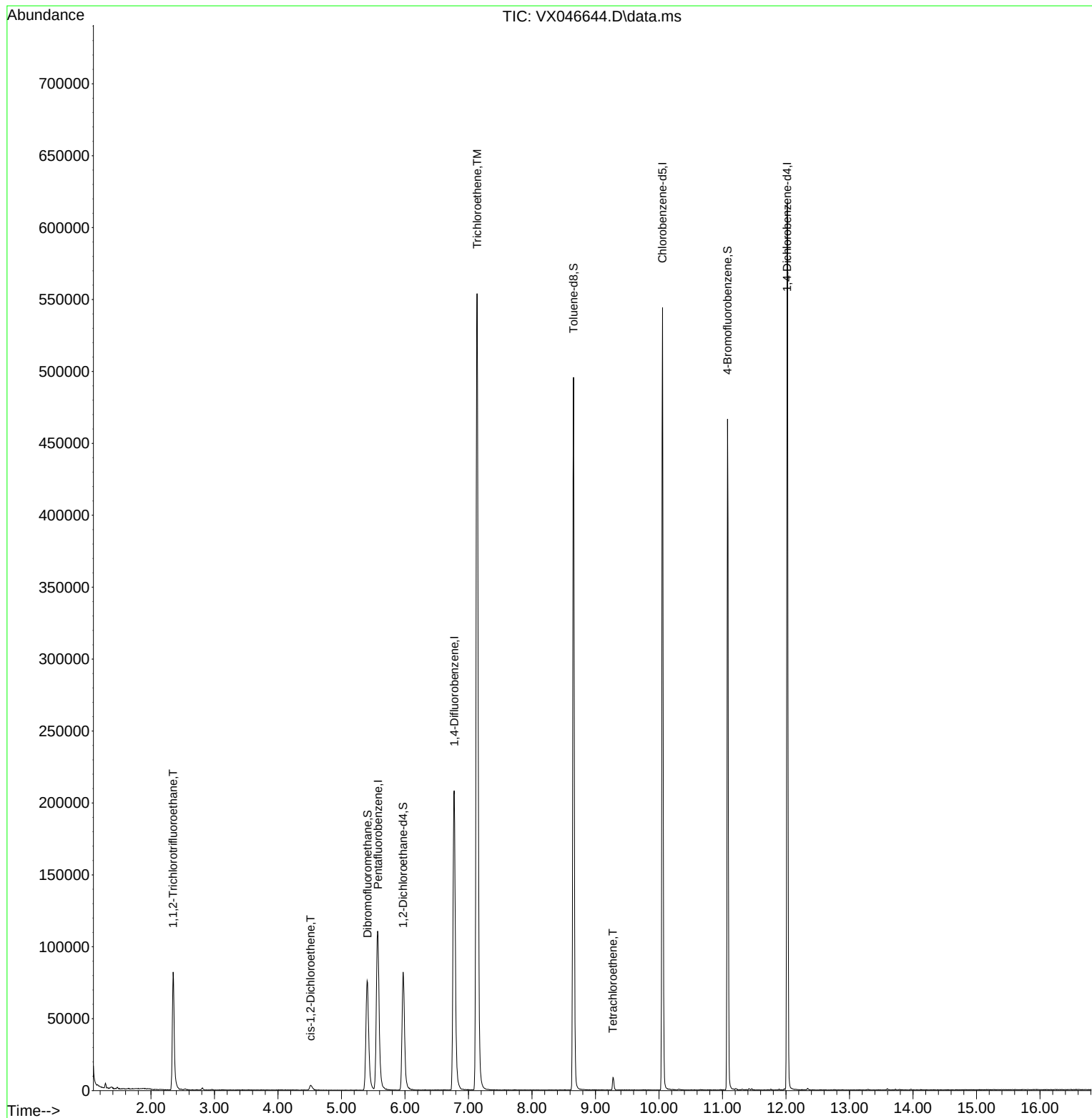
Internal Standards						
1) Pentafluorobenzene	5.574	168	113972	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	227958	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	237036	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	124632	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	86239	42.531	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	85.060%
35) Dibromofluoromethane	5.410	113	71170	42.454	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	84.900%
50) Toluene-d8	8.653	98	295147	53.402	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	106.800%
62) 4-Bromofluorobenzene	11.079	95	126952	55.517	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	111.040%
Target Compounds						
9) 1,1,2-Trichlorotrifluo...	2.349	101	37948	25.356	ug/l	91
27) cis-1,2-Dichloroethene	4.513	96	2501	1.419	ug/l	84
44) Trichloroethene	7.135	130	227940	133.077	ug/l	98
64) Tetrachloroethene	9.275	164	1879	1.185	ug/l	88

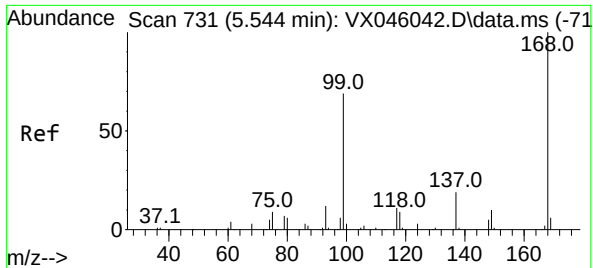
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046644.D
Acq On : 11 Jun 2025 17:53
Operator : JC/MD
Sample : Q2249-01 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 18 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-060525

Quant Time: Jun 12 02:34:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.574 min Scan# 71

Delta R.T. 0.006 min

Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

Instrument :

MSVOA_X

ClientSampleId :

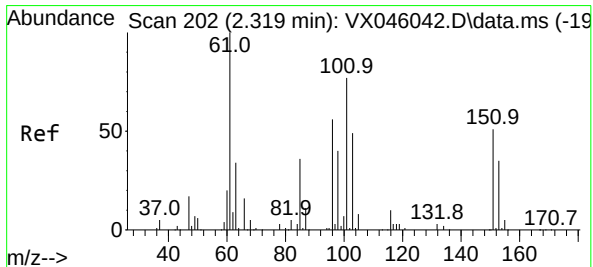
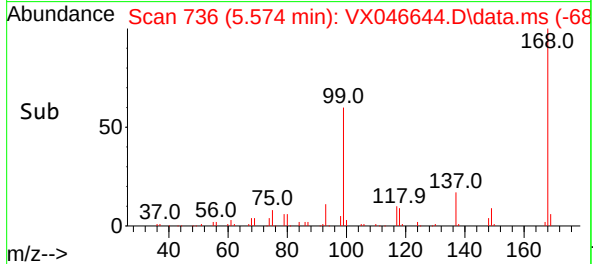
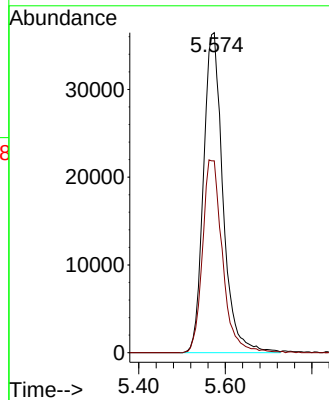
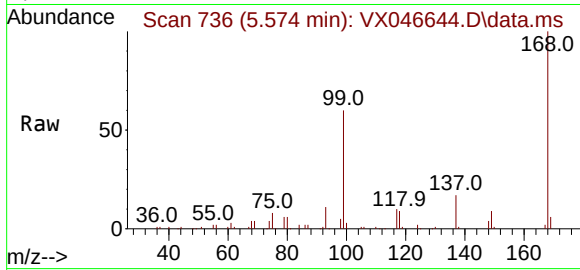
MW-06-6.5-060525

Tgt Ion:168 Resp: 113972

Ion Ratio Lower Upper

168 100

99 60.0 54.9 82.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 25.356 ug/l

RT: 2.349 min Scan# 207

Delta R.T. 0.000 min

Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

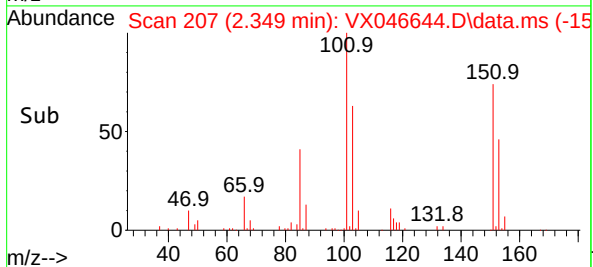
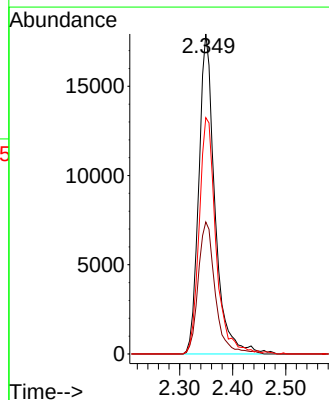
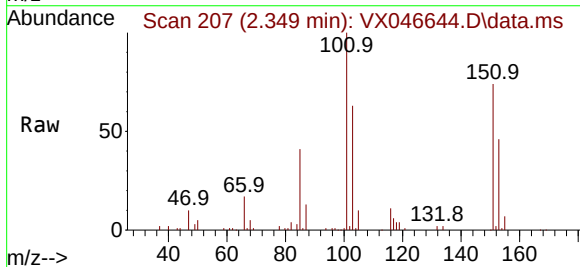
Tgt Ion:101 Resp: 37948

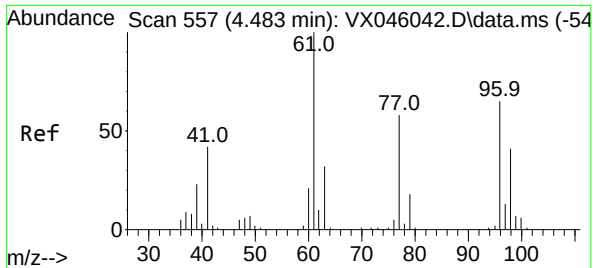
Ion Ratio Lower Upper

101 100

85 43.4 38.6 58.0

151 77.3 55.2 82.8





#27

cis-1,2-Dichloroethene

Concen: 1.419 ug/l

RT: 4.513 min Scan# 501

Delta R.T. 0.006 min

Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

Instrument :

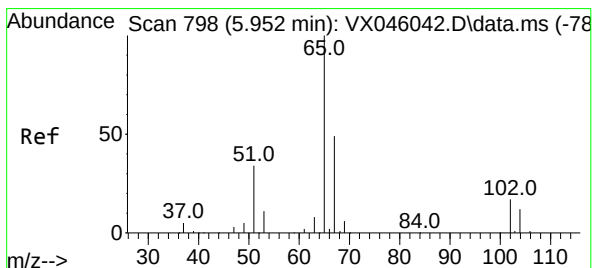
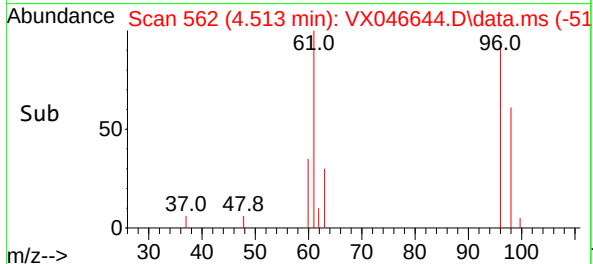
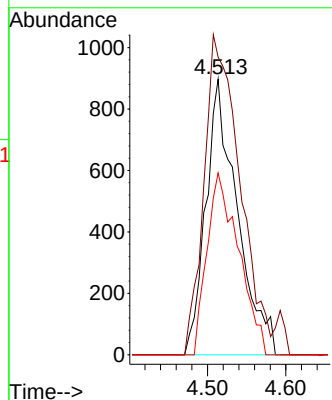
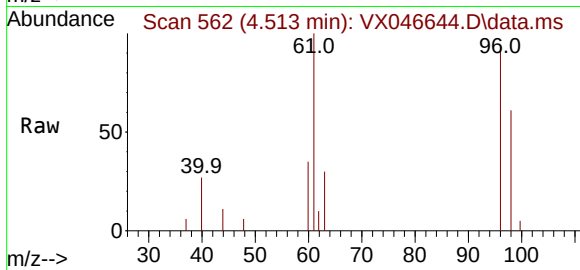
MSVOA_X

ClientSampleId :

MW-06-6.5-060525

Tgt Ion: 96 Resp: 2501

Ion	Ratio	Lower	Upper
96	100		
61	132.1	0.0	322.8
98	66.5	0.0	129.0



#33

1,2-Dichloroethane-d4

Concen: 42.531 ug/l

RT: 5.971 min Scan# 801

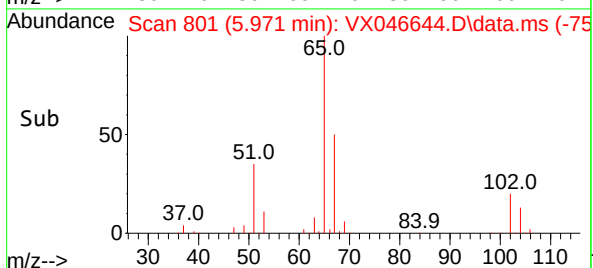
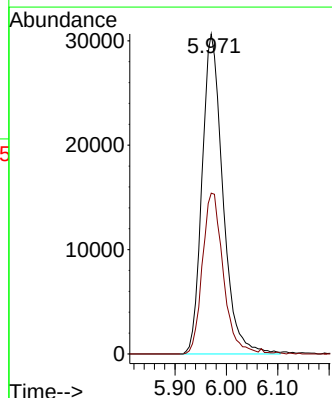
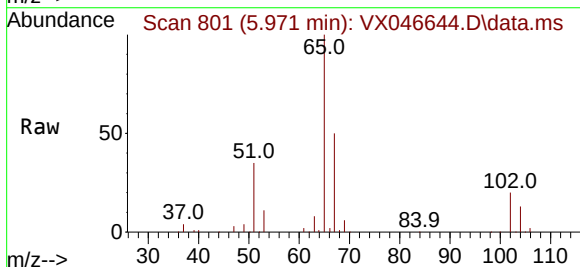
Delta R.T. 0.001 min

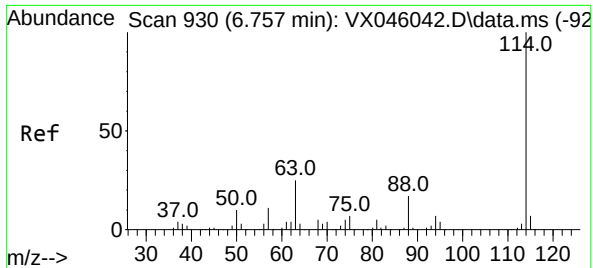
Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

Tgt Ion: 65 Resp: 86239

Ion	Ratio	Lower	Upper
65	100		
67	50.3	0.0	99.0

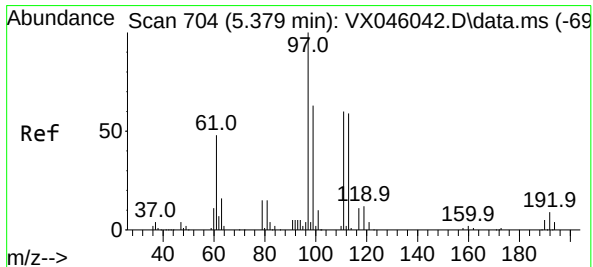
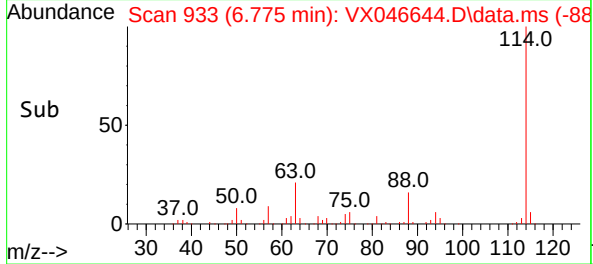
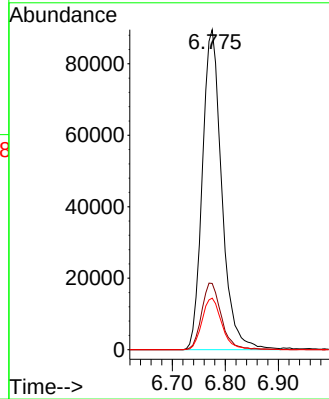
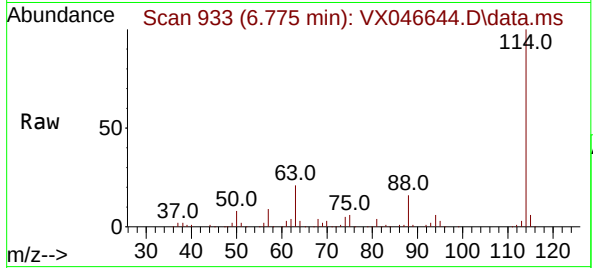




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX046644.D
Acq: 11 Jun 2025 17:53

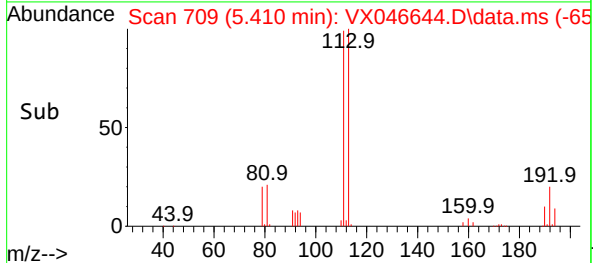
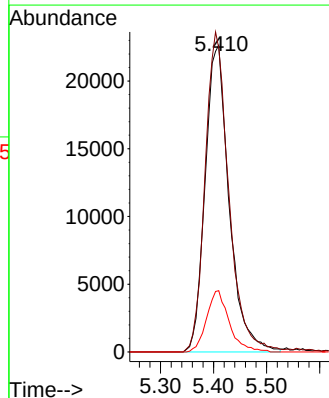
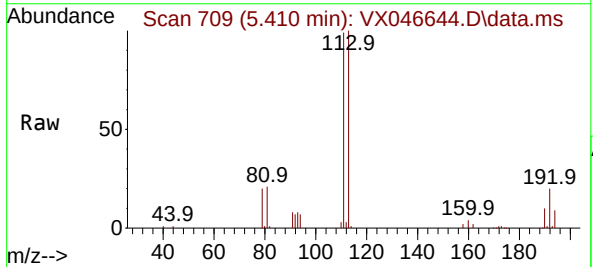
Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-060525

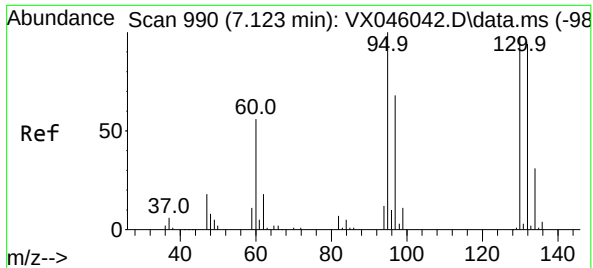
Tgt Ion:114 Resp: 227958
Ion Ratio Lower Upper
114 100
63 20.7 0.0 49.2
88 16.1 0.0 33.6



#35
Dibromofluoromethane
Concen: 42.454 ug/l
RT: 5.410 min Scan# 709
Delta R.T. 0.007 min
Lab File: VX046644.D
Acq: 11 Jun 2025 17:53

Tgt Ion:113 Resp: 71170
Ion Ratio Lower Upper
113 100
111 103.1 83.1 124.7
192 18.9 13.3 19.9

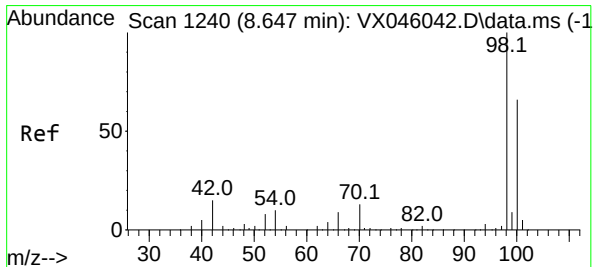
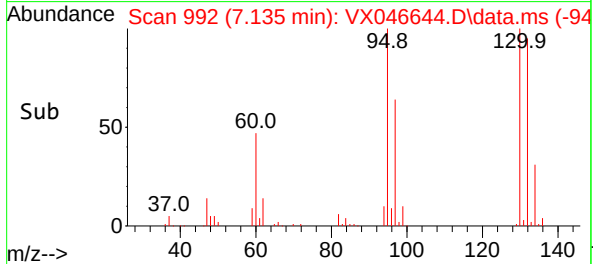
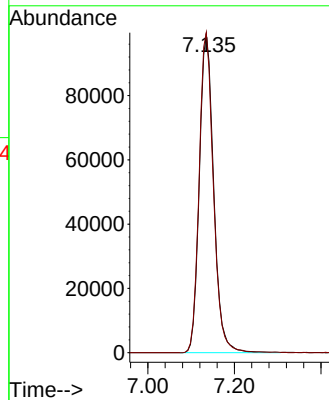
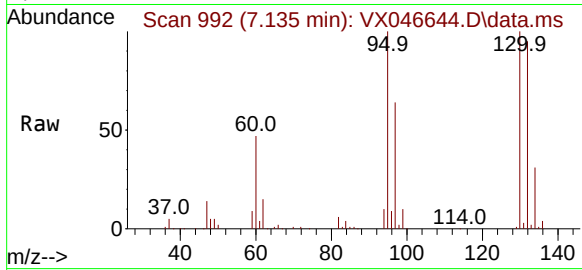




#44
Trichloroethene
Concen: 133.077 ug/l
RT: 7.135 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX046644.D
Acq: 11 Jun 2025 17:53

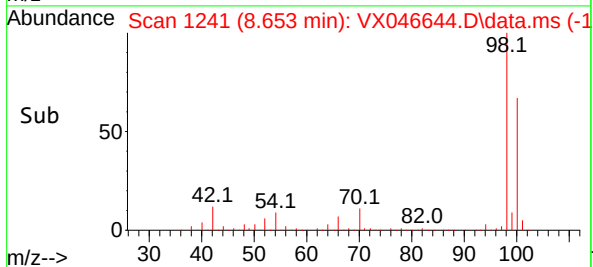
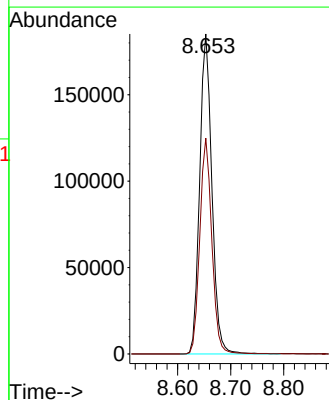
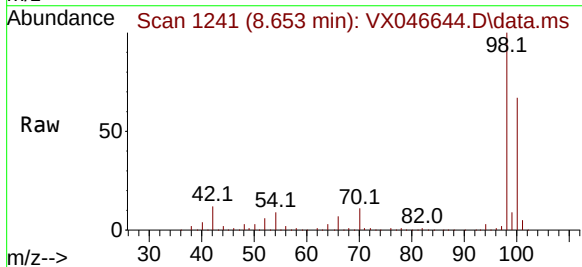
Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-060525

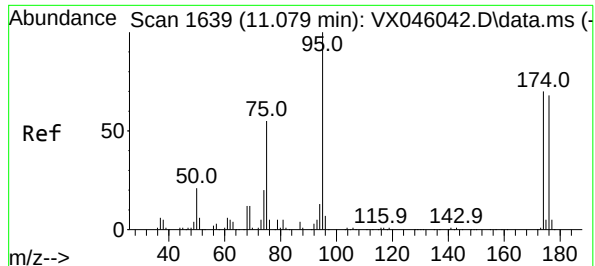
Tgt Ion:130 Resp: 227940
Ion Ratio Lower Upper
130 100
95 100.4 0.0 204.2



#50
Toluene-d8
Concen: 53.402 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.000 min
Lab File: VX046644.D
Acq: 11 Jun 2025 17:53

Tgt Ion: 98 Resp: 295147
Ion Ratio Lower Upper
98 100
100 66.6 53.5 80.3





#62

4-Bromofluorobenzene

Concen: 55.517 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-060525

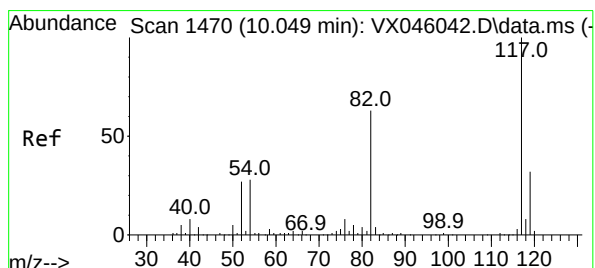
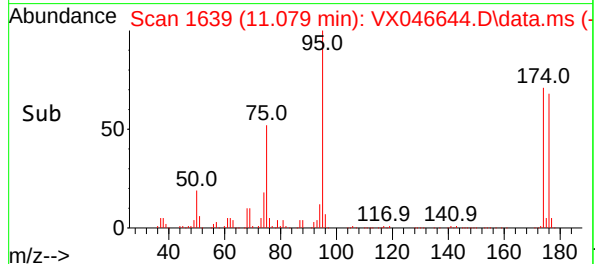
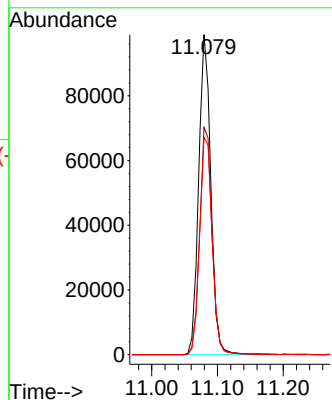
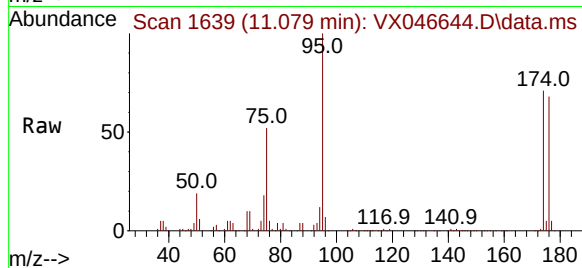
Tgt Ion: 95 Resp: 126952

Ion Ratio Lower Upper

95 100

174 72.4 0.0 135.8

176 70.3 0.0 131.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

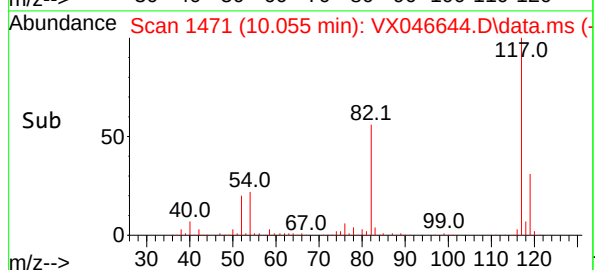
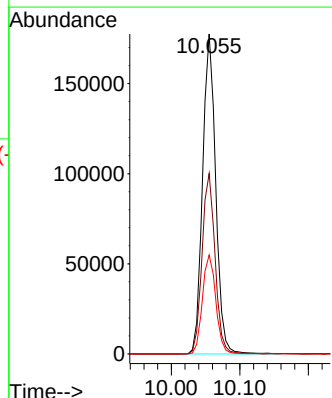
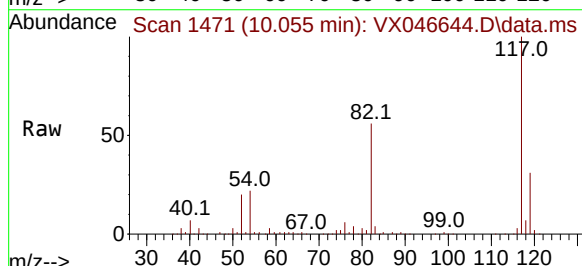
Tgt Ion: 117 Resp: 237036

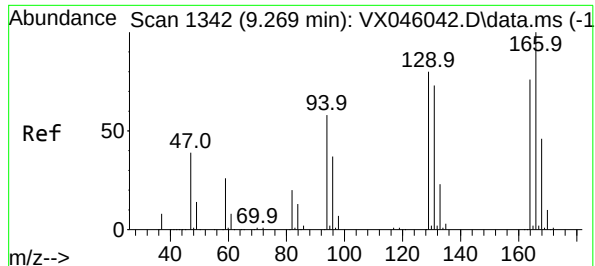
Ion Ratio Lower Upper

117 100

82 56.4 50.6 76.0

119 31.0 25.8 38.6





#64

Tetrachloroethene

Concen: 1.185 ug/l

RT: 9.275 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX046644.D

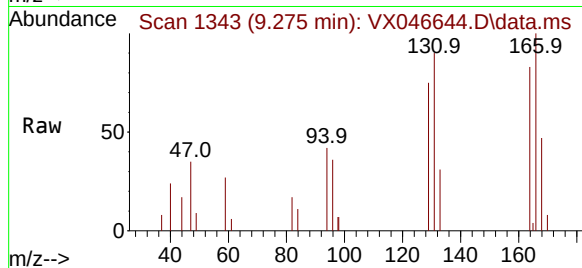
Acq: 11 Jun 2025 17:53

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-060525



Tgt Ion:164 Resp: 1879

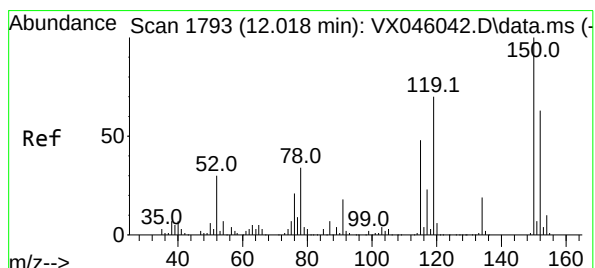
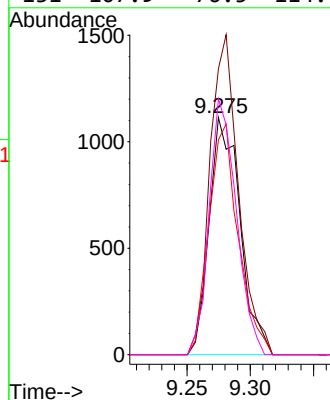
Ion Ratio Lower Upper

164 100

166 120.6 105.0 157.6

129 90.6 83.5 125.3

131 107.9 76.5 114.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX046644.D

Acq: 11 Jun 2025 17:53

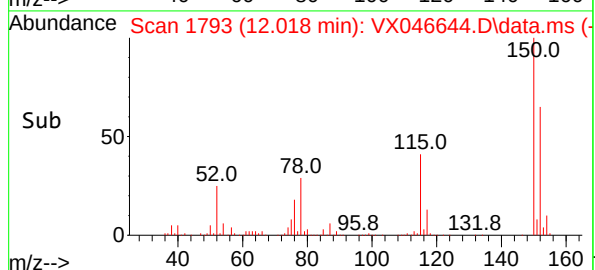
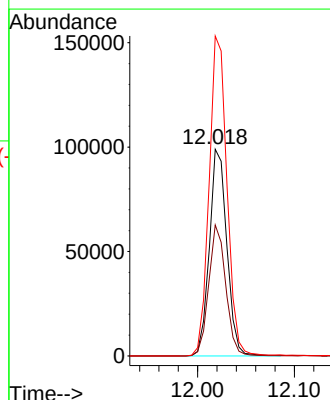
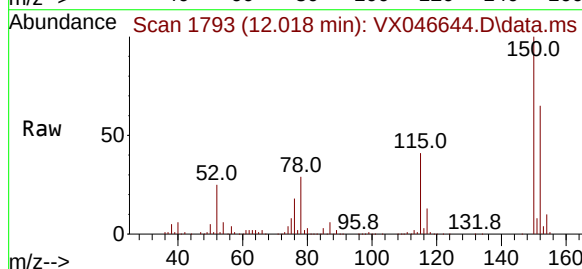
Tgt Ion:152 Resp: 124632

Ion Ratio Lower Upper

152 100

115 61.9 46.9 140.7

150 158.5 0.0 351.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	06/05/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	06/05/25
Client Sample ID:	MW-06-6.5-060525RE	SDG No.:	Q2249
Lab Sample ID:	Q2249-01RE	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046661.D	10		06/12/25 14:04	VX061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	2.60	U	2.60	10.0	ug/L
75-35-4	1,1-Dichloroethene	2.30	U	2.30	10.0	ug/L
75-34-3	1,1-Dichloroethane	2.30	U	2.30	10.0	ug/L
156-59-2	cis-1,2-Dichloroethene	12.6		1.90	10.0	ug/L
71-55-6	1,1,1-Trichloroethane	2.00	U	2.00	10.0	ug/L
71-43-2	Benzene	1.50	U	1.50	10.0	ug/L
107-06-2	1,2-Dichloroethane	2.20	U	2.20	10.0	ug/L
79-01-6	Trichloroethene	1000		0.93	10.0	ug/L
79-00-5	1,1,2-Trichloroethane	2.10	U	2.10	10.0	ug/L
127-18-4	Tetrachloroethene	8.10	J	2.30	10.0	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	45.9		70 (74) - 130 (125)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.7		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	52.9		70 (86) - 130 (113)	106%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.8		70 (77) - 130 (121)	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	131000	5.556			
540-36-3	1,4-Difluorobenzene	257000	6.769			
3114-55-4	Chlorobenzene-d5	263000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	135000	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\VX061225\
 Data File : VX046661.D
 Acq On : 12 Jun 2025 14:04
 Operator : JC/MD
 Sample : Q2249-01RE 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-6.5-060525RE

Quant Time: Jun 12 14:23:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

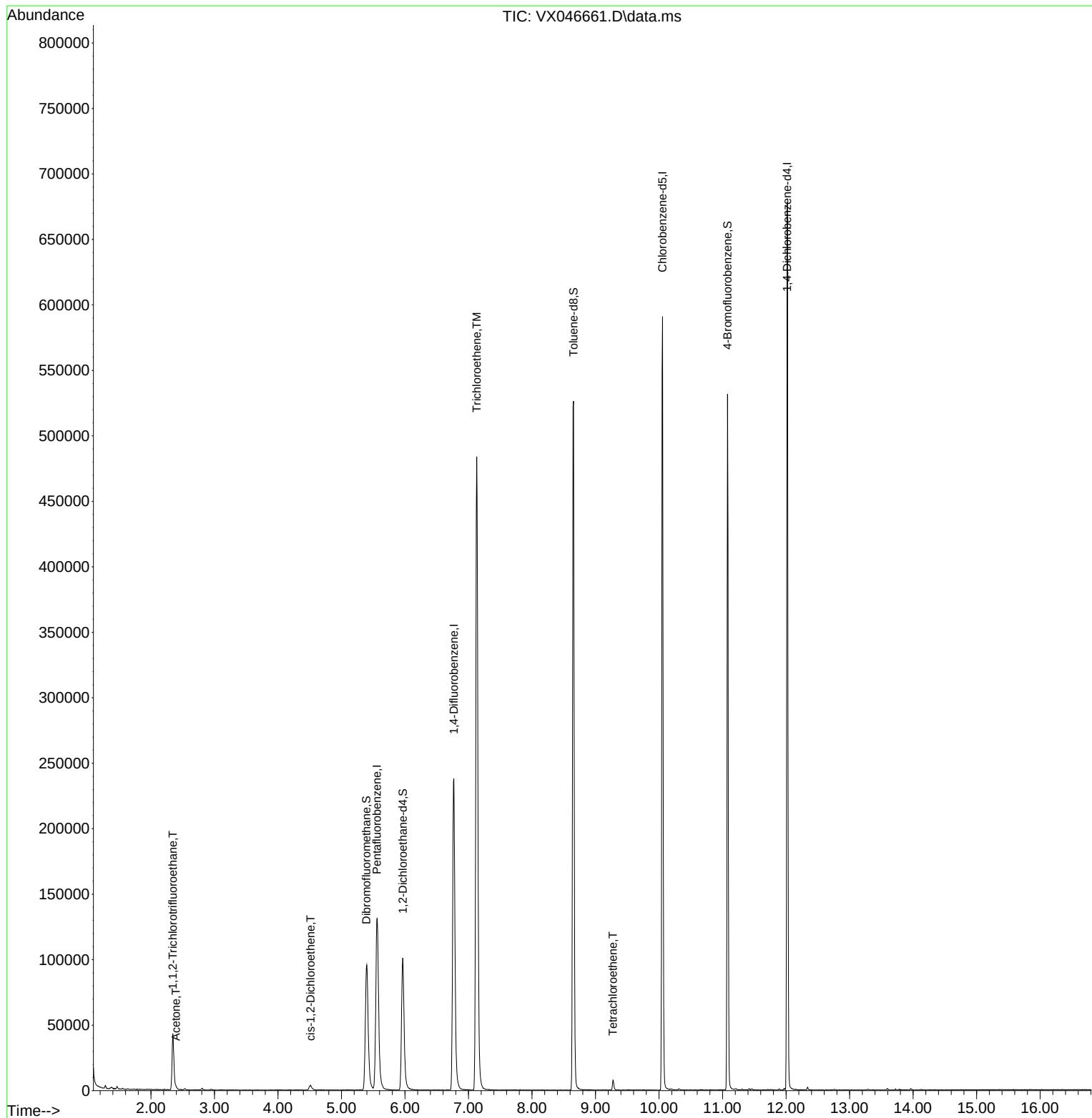
Internal Standards						
1) Pentafluorobenzene	5.556	168	130843	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.769	114	256854	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	263328	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	135069	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	106796	45.878	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	91.760%
35) Dibromofluoromethane	5.391	113	91952	48.680	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	97.360%
50) Toluene-d8	8.653	98	329160	52.856	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	105.720%
62) 4-Bromofluorobenzene	11.079	95	138615	53.798	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	107.600%
Target Compounds						
					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.343	101	19559	11.384	ug/l	94
16) Acetone	2.392	43	1345	6.039	ug/l #	83
27) cis-1,2-Dichloroethene	4.513	96	2540	1.255	ug/l	87
44) Trichloroethene	7.129	130	197730	102.453	ug/l	99
64) Tetrachloroethene	9.275	164	1427	0.810	ug/l	97

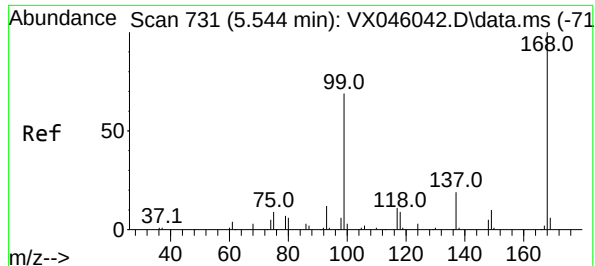
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046661.D
Acq On : 12 Jun 2025 14:04
Operator : JC/MD
Sample : Q2249-01RE 10X
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MW-06-6.5-060525RE

Quant Time: Jun 12 14:23:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration



#1
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.556 min Scan# 71

Delta R.T. -0.012 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

ClientSampleId :

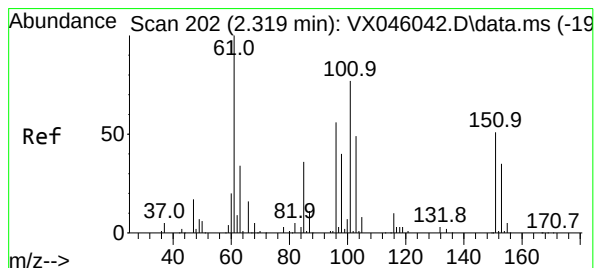
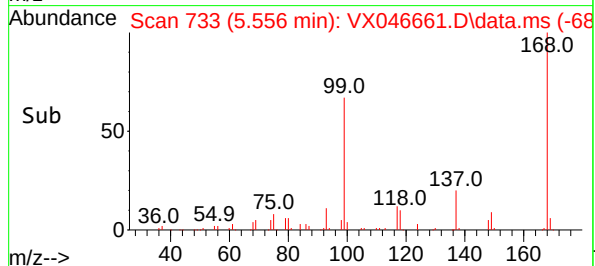
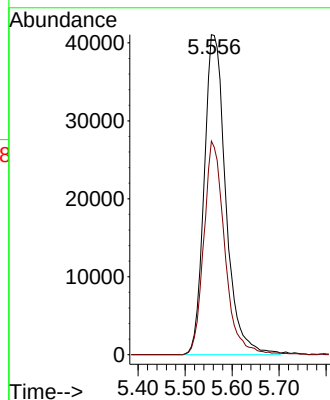
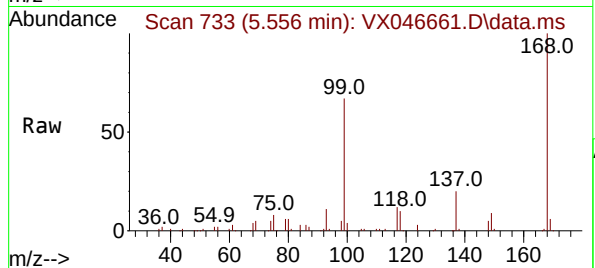
MW-06-6.5-060525RE

Tgt Ion:168 Resp: 130843

Ion Ratio Lower Upper

168 100

99 66.7 54.9 82.3



#9

1,1,2-Trichlorotrifluoroethane

Concen: 11.384 ug/l

RT: 2.343 min Scan# 206

Delta R.T. -0.006 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

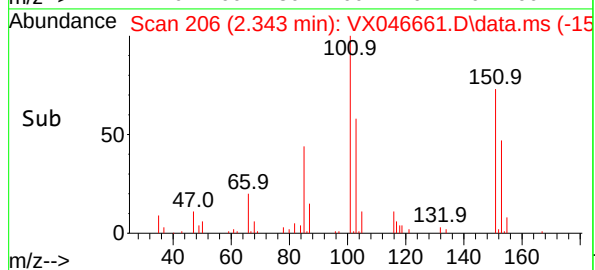
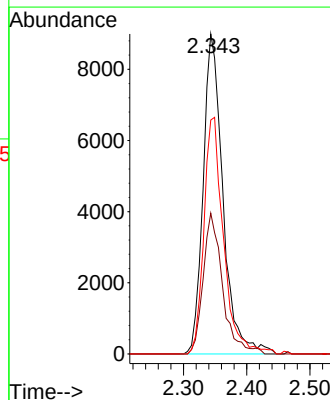
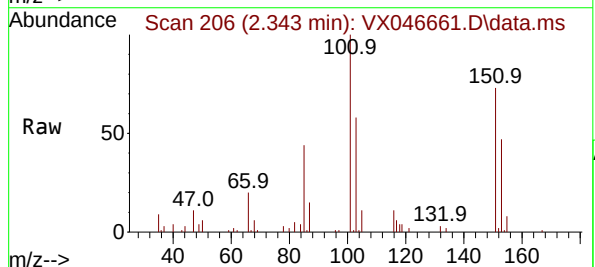
Tgt Ion:101 Resp: 19559

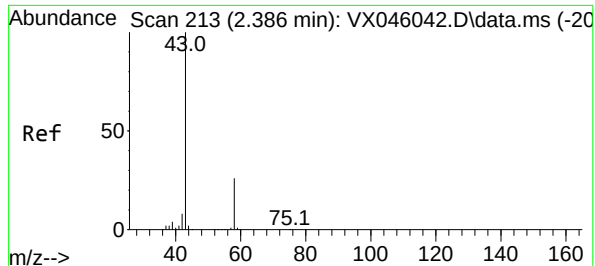
Ion Ratio Lower Upper

101 100

85 43.2 38.6 58.0

151 73.4 55.2 82.8





#16

Acetone

Concen: 6.039 ug/l

RT: 2.392 min Scan# 213

Delta R.T. -0.000 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

ClientSampleId :

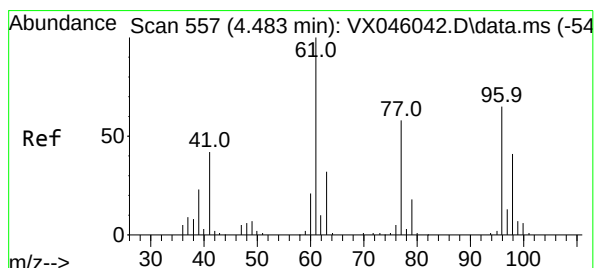
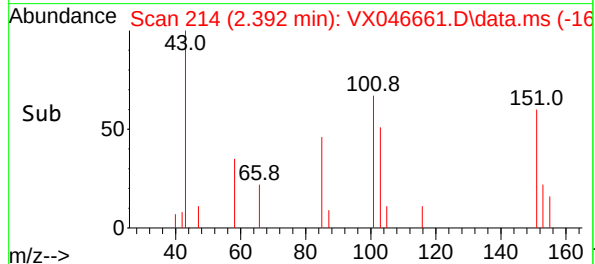
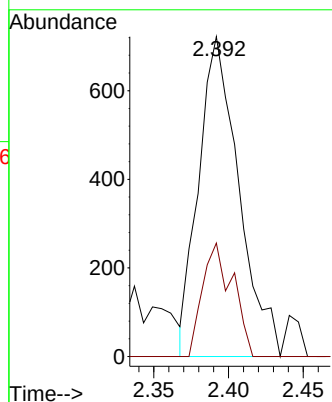
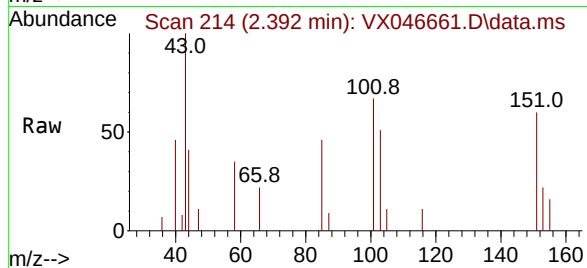
MW-06-6.5-060525RE

Tgt Ion: 43 Resp: 1345

Ion Ratio Lower Upper

43 100

58 35.5 21.2 31.8#



#27

cis-1,2-Dichloroethene

Concen: 1.255 ug/l

RT: 4.513 min Scan# 562

Delta R.T. 0.006 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

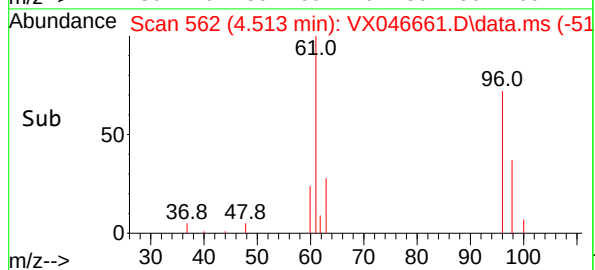
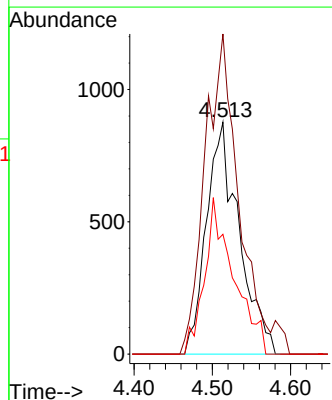
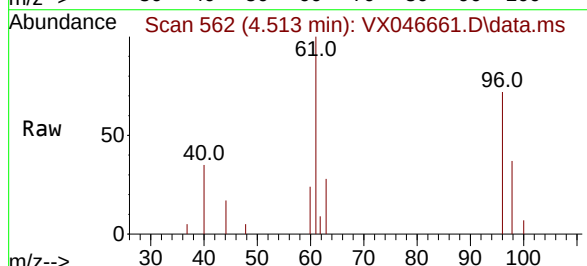
Tgt Ion: 96 Resp: 2540

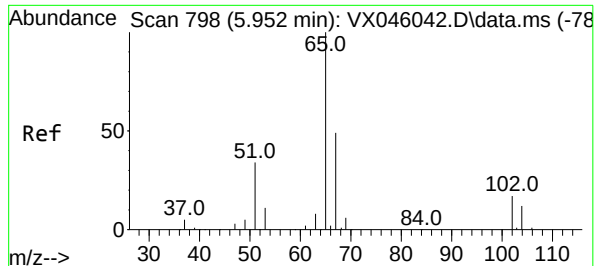
Ion Ratio Lower Upper

96 100

61 141.0 0.0 322.8

98 60.2 0.0 129.0





#33

1,2-Dichloroethane-d4

Concen: 45.878 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

ClientSampleId :

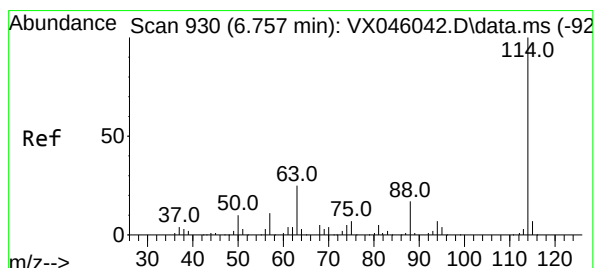
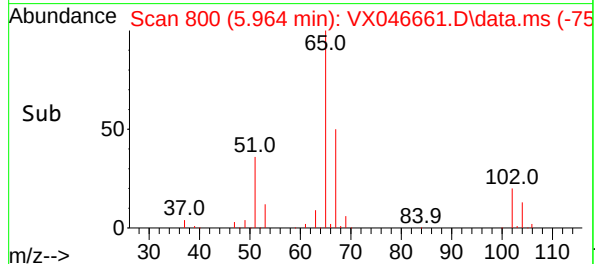
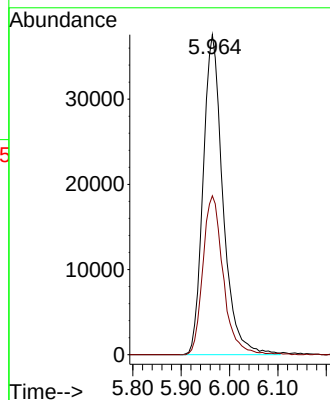
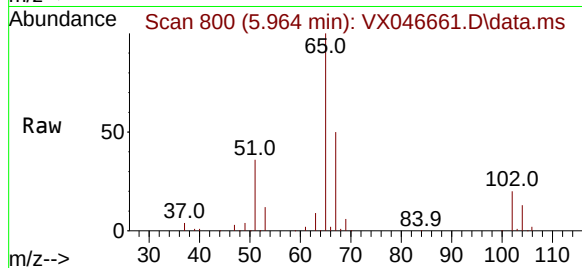
MW-06-6.5-060525RE

Tgt Ion: 65 Resp: 106796

Ion Ratio Lower Upper

65 100

67 51.1 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

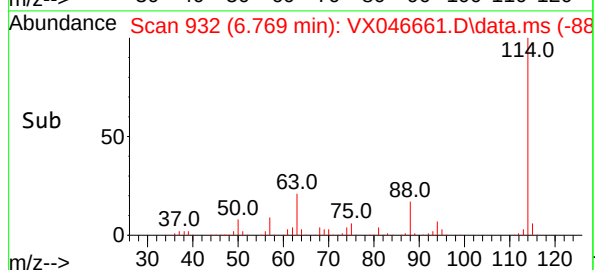
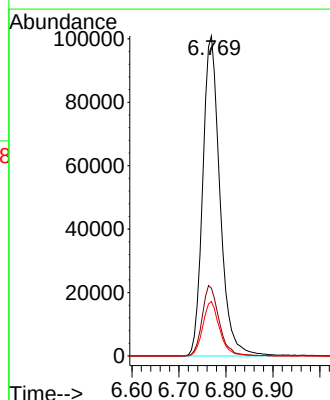
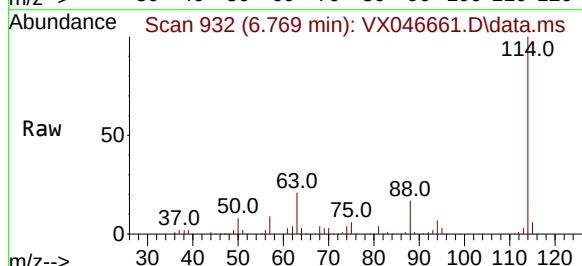
Tgt Ion: 114 Resp: 256854

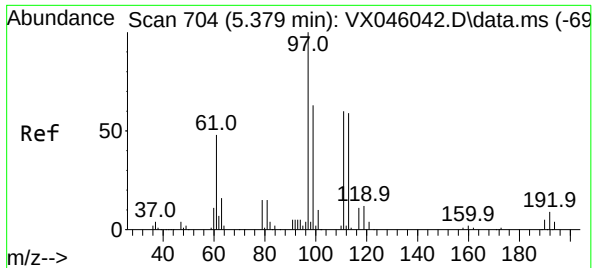
Ion Ratio Lower Upper

114 100

63 21.2 0.0 49.2

88 17.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 48.680 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046661.D

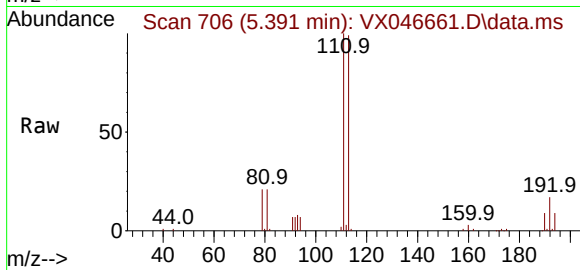
Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

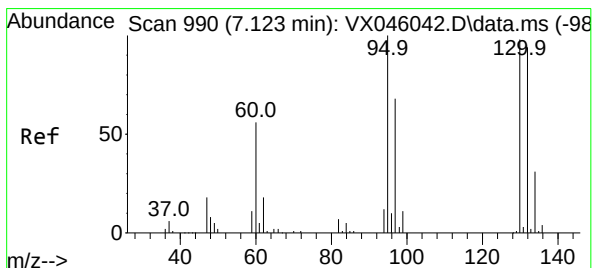
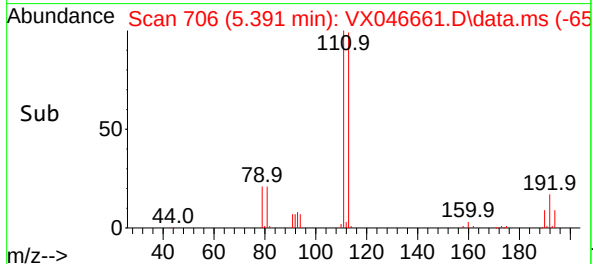
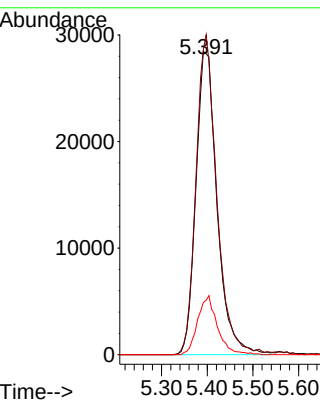
ClientSampleId :

MW-06-6.5-060525RE



Tgt Ion:113 Resp: 91952

Ion	Ratio	Lower	Upper
113	100		
111	102.4	83.1	124.7
192	18.1	13.3	19.9



#44

Trichloroethene

Concen: 102.453 ug/l

RT: 7.129 min Scan# 991

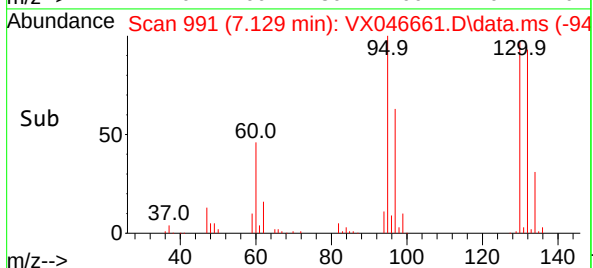
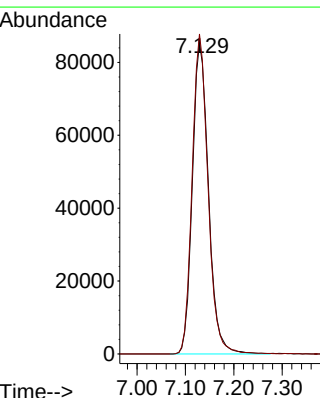
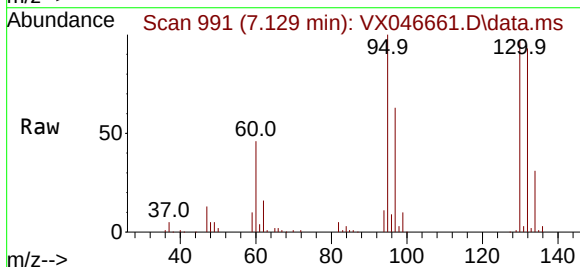
Delta R.T. -0.006 min

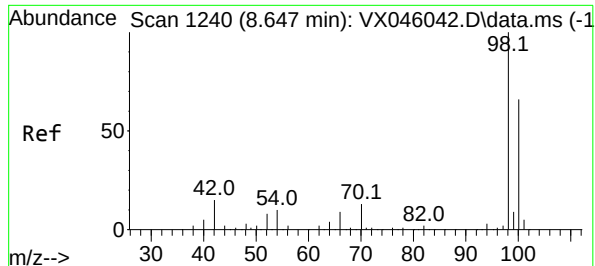
Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Tgt Ion:130 Resp: 197730

Ion	Ratio	Lower	Upper
130	100		
95	102.9	0.0	204.2





#50

Toluene-d8

Concen: 52.856 ug/l

RT: 8.653 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

ClientSampleId :

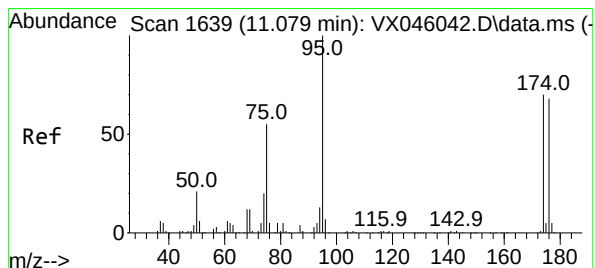
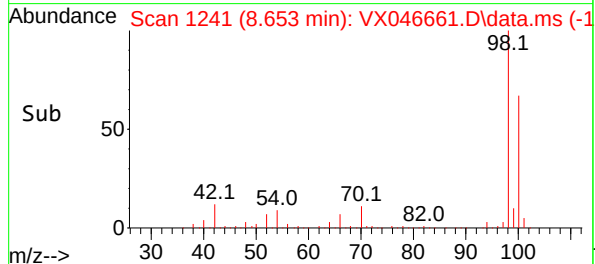
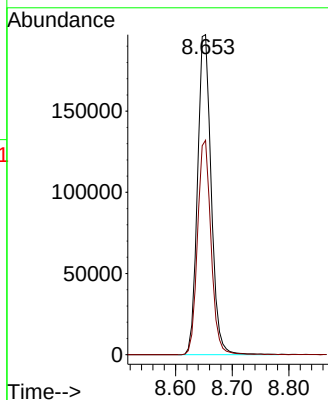
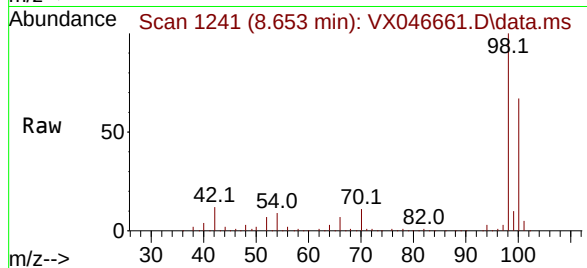
MW-06-6.5-060525RE

Tgt Ion: 98 Resp: 329160

Ion Ratio Lower Upper

98 100

100 66.4 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 53.798 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

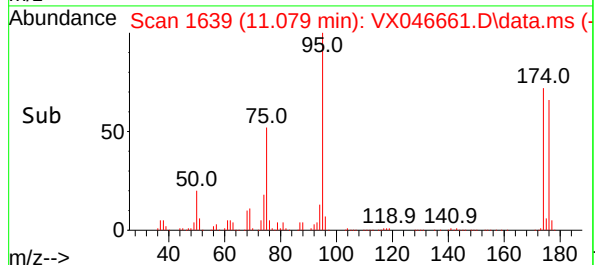
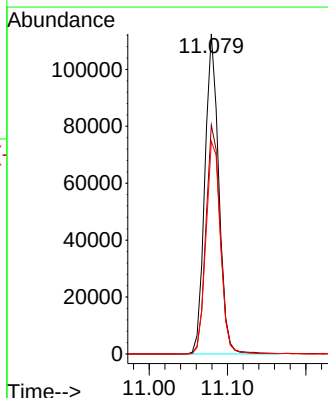
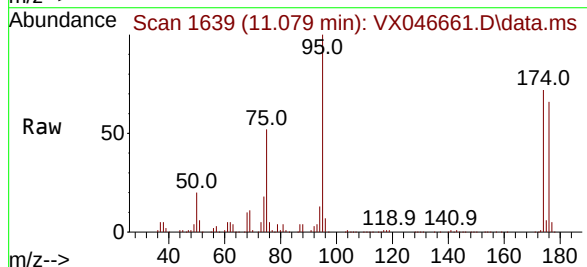
Tgt Ion: 95 Resp: 138615

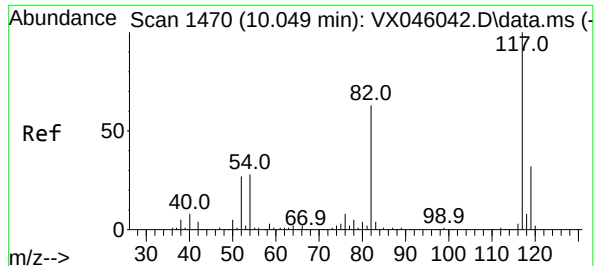
Ion Ratio Lower Upper

95 100

174 73.7 0.0 135.8

176 69.7 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-060525RE

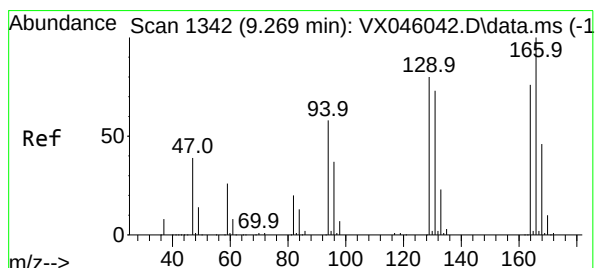
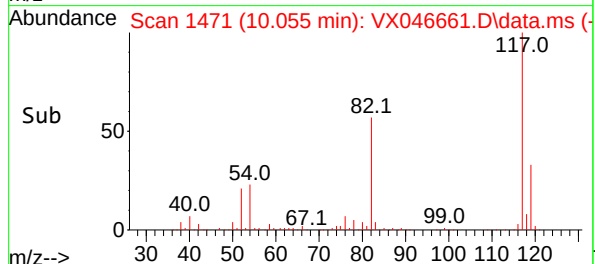
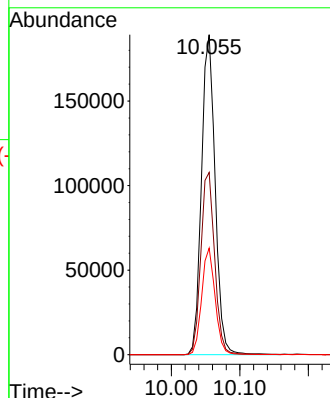
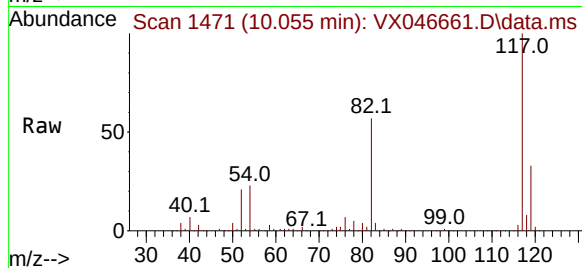
Tgt Ion:117 Resp: 263328

Ion Ratio Lower Upper

117 100

82 57.0 50.6 76.0

119 33.3 25.8 38.6



#64

Tetrachloroethene

Concen: 0.810 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX046661.D

Acq: 12 Jun 2025 14:04

Tgt Ion:164 Resp: 1427

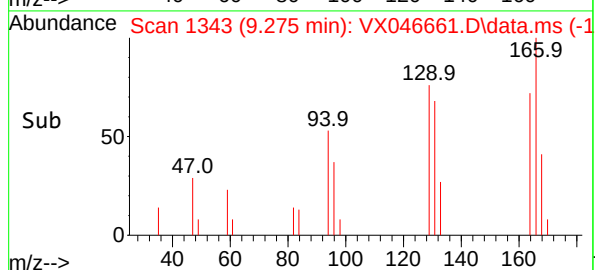
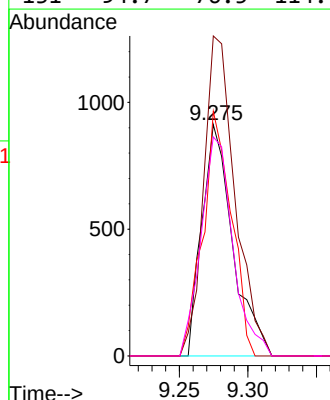
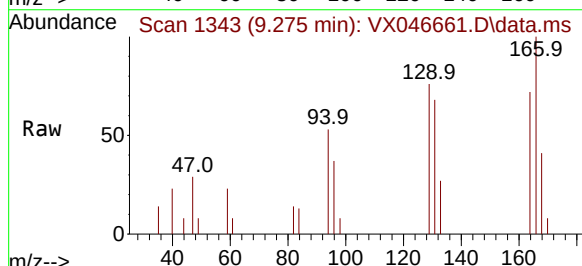
Ion Ratio Lower Upper

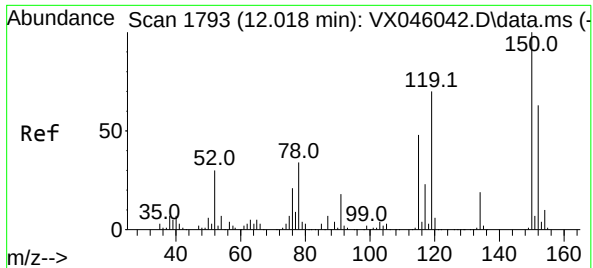
164 100

166 138.4 105.0 157.6

129 105.8 83.5 125.3

131 94.7 76.5 114.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX046661.D

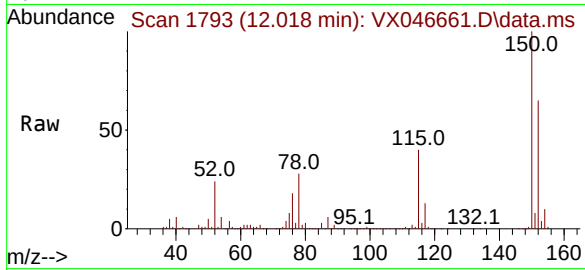
Acq: 12 Jun 2025 14:04

Instrument :

MSVOA_X

ClientSampleId :

MW-06-6.5-060525RE



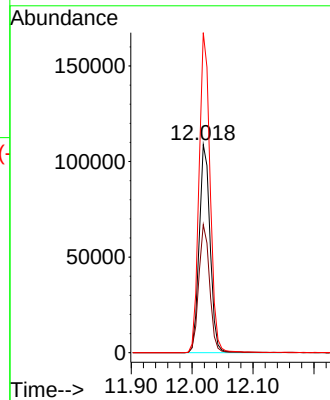
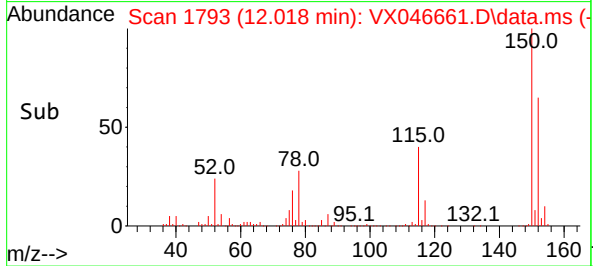
Tgt Ion:152 Resp: 135069

Ion Ratio Lower Upper

152 100

115 61.3 46.9 140.7

150 155.7 0.0 351.0





CALIBRATION SUMMARY



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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: JAC005
 Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG No.: Q2249
 Instrument ID: MSVOA_X Calibration Date(s): 06/06/2025 06/06/2025
 Heated Purge: (Y/N) N Calibration Time(s): 09:42 12:57
 GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID:		RRF005 = VX046518.D		RRF020 = VX046519.D		RRF050 = VX046520.D			
		RRF100 = VX046521.D		RRF150 = VX046522.D		RRF001 = VX046524.D			
COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF001	RRF	% RSD	
Vinyl Chloride	0.697	0.593	0.596	0.591	0.622	0.679	0.630	7.5	
1,1-Dichloroethene	0.663	0.550	0.567	0.561	0.585	0.635	0.594	7.6	
1,1-Dichloroethane	1.349	1.266	1.259	1.234	1.297	1.281	1.281	3.1	
cis-1,2-Dichloroethene	0.786	0.752	0.741	0.728	0.767	0.866	0.773	6.4	
1,1,1-Trichloroethane	1.170	1.131	1.141	1.128	1.188	1.131	1.148	2.2	
Benzene	1.597	1.503	1.427	1.380	1.442	1.522	1.479	5.3	
1,2-Dichloroethane	0.646	0.641	0.610	0.586	0.602	0.606	0.615	3.8	
Trichloroethene	0.385	0.356	0.351	0.332	0.354	0.476	0.376	13.8	
1,1,2-Trichloroethane	0.375	0.389	0.366	0.356	0.372	0.331	0.365	5.4	
Tetrachloroethene	0.347	0.324	0.310	0.301	0.314	0.410	0.334	12.1	
1,2-Dichloroethane-d4	0.997	0.848	0.873	0.828	0.900		0.890	7.4	
Dibromofluoromethane	0.392	0.353	0.368	0.347	0.379		0.368	5	
Toluene-d8	1.362	1.159	1.188	1.132	1.220		1.212	7.4	
4-Bromofluorobenzene	0.564	0.482	0.493	0.468	0.501		0.502	7.4	

* 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 : 82X060625W.M
 Title : SW846 8260
 Last Update : Fri Jun 06 16:56:12 2025
 Response Via : Initial Calibration

Calibration Files

1 =VX046524.D 5 =VX046518.D 20 =VX046519.D 50 =VX046520.D 100 =VX046521.D 150 =VX046522.D

	Compound	1	5	20	50	100	150	Avg	%RSD
1) I	Pentafluorobenzene	-----ISTD-----							
2) T	Dichlorodifluo...	0.838	0.740	0.653	0.645	0.635	0.654	0.694	11.52
3) P	Chloromethane	0.713	0.737	0.586	0.573	0.568	0.614	0.632	11.76
4) C	Vinyl Chloride	0.679	0.697	0.593	0.596	0.591	0.622	0.630	7.46#
5) T	Bromomethane		0.592	0.429	0.398	0.256	0.237	0.382	37.77
6) T	Chloroethane	0.509	0.456	0.384	0.373	0.357	0.373	0.409	14.73
7) T	Trichlorofluor...	1.019	1.136	1.055	1.021	0.988	1.034	1.042	4.89
8) T	Diethyl Ether	0.412	0.368	0.355	0.356	0.349	0.368	0.368	6.23
9) T	1,1,2-Trichlor...	0.697	0.699	0.651	0.638	0.616	0.639	0.657	5.19
10) T	Methyl Iodide		0.653	0.664	0.716	0.744	0.782	0.712	7.65
11) T	Tert butyl alc...		0.087	0.090	0.098	0.104	0.114	0.099	10.94
12) CM	1,1-Dichloroet...	0.635	0.663	0.550	0.567	0.561	0.585	0.594	7.64#
13) T	Acrolein		0.040	0.110	0.112	0.117	0.135	0.103	35.72
14) T	Allyl chloride	1.283	1.198	1.115	1.130	1.138	1.131	1.166	5.52
15) T	Acrylonitrile	0.342	0.367	0.368	0.379	0.381	0.403	0.373	5.42
16) T	Acetone	0.566	0.347	0.334	0.340	0.341	0.360	0.381	23.86
17) T	Carbon Disulfide	2.313	1.618	1.229	1.218	1.220	1.288	1.481	29.41
18) T	Methyl Acetate	0.883	0.870	1.082	1.130	1.155	1.237	1.060	14.20
19) T	Methyl tert-bu...	1.873	2.038	2.050	2.115	2.131	2.256	2.077	6.11
20) T	Methylene Chlo...	0.868	0.752	0.676	0.662	0.646	0.678	0.714	11.77
21) T	trans-1,2-Dich...	0.785	0.661	0.580	0.582	0.567	0.594	0.628	13.34
22) T	Diisopropyl ether	2.017	2.338	2.344	2.343	2.319	2.429	2.298	6.22
23) T	Vinyl Acetate	1.639	1.727	1.682	1.828	1.831	1.940	1.775	6.31
24) P	1,1-Dichloroet...	1.281	1.349	1.266	1.259	1.234	1.297	1.281	3.09
25) T	2-Butanone	0.484	0.459	0.469	0.503	0.511	0.544	0.495	6.28
26) T	2,2-Dichloropr...	0.900	0.931	0.919	0.966	0.968	1.022	0.951	4.61
27) T	cis-1,2-Dichlo...	0.866	0.786	0.752	0.741	0.728	0.767	0.773	6.43
28) T	Bromochloromet...	0.650	0.652	0.592	0.590	0.594	0.589	0.611	5.04
29) T	Tetrahydrofuran	0.306	0.301	0.291	0.316	0.320	0.342	0.313	5.64
30) C	Chloroform	1.349	1.392	1.356	1.318	1.290	1.349	1.342	2.59#
31) T	Cyclohexane		1.172	1.012	0.995	0.974	1.018	1.034	7.64
32) T	1,1,1-Trichlor...	1.131	1.170	1.131	1.141	1.128	1.188	1.148	2.17
33) S	1,2-Dichloroet...		0.997	0.848	0.873	0.828	0.900	0.890	7.42
34) I	1,4-Difluorobenzene	-----ISTD-----							
35) S	Dibromofluorom...		0.392	0.353	0.368	0.347	0.379	0.368	5.01
36) T	1,1-Dichloropr...	0.660	0.554	0.506	0.485	0.461	0.485	0.525	13.89
37) T	Ethyl Acetate	0.355	0.483	0.522	0.554	0.566	0.596	0.513	16.84
38) T	Carbon Tetrach...	0.655	0.599	0.579	0.564	0.554	0.579	0.588	6.09
39) T	Methylcyclohexane	0.725	0.696	0.576	0.572	0.565	0.587	0.620	11.41
40) TM	Benzene	1.522	1.597	1.503	1.427	1.380	1.442	1.479	5.25
41) T	Methacrylonitrile	0.279	0.310	0.335	0.323	0.320	0.344	0.318	7.09
42) TM	1,2-Dichloroet...	0.606	0.646	0.641	0.610	0.586	0.602	0.615	3.80
43) T	Isopropyl Acetate	0.772	0.842	0.887	0.923	0.935	1.002	0.894	8.92
44) TM	Trichloroethene	0.476	0.385	0.356	0.351	0.332	0.354	0.376	13.85
45) C	1,2-Dichloropr...	0.359	0.393	0.396	0.381	0.370	0.390	0.382	3.84#
46) T	Dibromomethane	0.291	0.308	0.286	0.279	0.272	0.286	0.287	4.22
47) T	Bromodichlorom...	0.534	0.580	0.617	0.603	0.589	0.618	0.590	5.32
48) T	Methyl methacr...	0.395	0.423	0.454	0.481	0.490	0.517	0.460	9.79
49) T	1,4-Dioxane	0.004	0.006	0.007	0.006	0.007	0.007	0.006	14.38
50) S	Toluene-d8		1.362	1.159	1.188	1.132	1.220	1.212	7.42
51) T	4-Methyl-2-Pen...	0.492	0.548	0.583	0.593	0.582	0.609	0.568	7.47
52) CM	Toluene	0.938	0.980	0.911	0.884	0.849	0.888	0.908	5.04#
53) T	t-1,3-Dichloro...	0.480	0.469	0.524	0.542	0.559	0.601	0.529	9.38
54) T	cis-1,3-Dichlo...	0.567	0.567	0.580	0.590	0.595	0.633	0.589	4.15
55) T	1,1,2-Trichlor...	0.331	0.375	0.389	0.366	0.356	0.372	0.365	5.41
56) T	Ethyl methacry...	0.456	0.536	0.566	0.583	0.594	0.632	0.561	10.79

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
 Method File : 82X060625W.M

57)	T	1,3-Dichloropr...	0.653	0.664	0.666	0.636	0.612	0.637	0.644	3.15
58)	T	2-Chloroethyl ...	0.278	0.301	0.302	0.316	0.312	0.326	0.306	5.46
59)	T	2-Hexanone	0.368	0.376	0.416	0.426	0.419	0.438	0.407	6.99
60)	T	Dibromochlorom...	0.405	0.431	0.438	0.432	0.422	0.447	0.429	3.35
61)	T	1,2-Dibromoethane	0.420	0.367	0.380	0.370	0.365	0.378	0.380	5.37
62)	S	4-Bromofluorob...	0.564	0.482	0.493	0.468	0.501	0.502		7.36
63)	I	Chlorobenzene-d5	-----ISTD-----							
64)	T	Tetrachloroethene	0.410	0.347	0.324	0.310	0.301	0.314	0.334	12.07
65)	PM	Chlorobenzene	1.356	1.187	1.152	1.126	1.096	1.139	1.176	7.91
66)	T	1,1,1,2-Tetrac...	0.362	0.394	0.401	0.403	0.404	0.420	0.397	4.87
67)	C	Ethyl Benzene	2.166	2.093	2.029	2.018	1.971	2.041	2.053	3.30#
68)	T	m/p-Xylenes	0.773	0.756	0.750	0.737	0.714	0.738	0.745	2.67
69)	T	o-Xylene	0.719	0.728	0.731	0.716	0.703	0.724	0.720	1.42
70)	T	Styrene	1.209	1.205	1.257	1.257	1.213	1.257	1.233	2.15
71)	P	Bromoform	0.286	0.269	0.300	0.311	0.317	0.335	0.303	7.76
72)	I	1,4-Dichlorobenzen...	-----ISTD-----							
73)	T	Isopropylbenzene	3.896	3.936	3.949	3.909	3.828	4.064	3.930	1.98
74)	T	N-amyl acetate	1.424	1.613	1.673	1.803	1.854	2.019	1.731	11.98
75)	P	1,1,2,2-Tetrac...	1.148	1.294	1.294	1.257	1.249	1.306	1.258	4.65
76)	T	1,2,3-Trichlor...	1.091	1.022	1.076	1.049	1.025	1.092	1.059	2.97
77)	T	Bromobenzene	0.958	0.904	0.925	0.881	0.878	0.928	0.912	3.36
78)	T	n-propylbenzene	5.051	4.659	4.775	4.693	4.553	4.813	4.757	3.58
79)	T	2-Chlorotoluene	3.087	2.885	2.870	2.786	2.721	2.866	2.869	4.31
80)	T	1,3,5-Trimethy...	3.322	3.329	3.297	3.243	3.147	3.314	3.275	2.14
81)	T	trans-1,4-Dich...	0.274	0.352	0.370	0.398	0.442	0.367		16.86
82)	T	4-Chlorotoluene	3.872	3.390	3.342	3.293	3.177	3.329	3.400	7.12
83)	T	tert-Butylbenzene	3.284	3.341	3.364	3.287	3.248	3.482	3.334	2.50
84)	T	1,2,4-Trimethy...	3.406	3.309	3.360	3.256	3.194	3.356	3.313	2.34
85)	T	sec-Butylbenzene	4.458	4.350	4.296	4.172	4.096	4.334	4.284	3.04
86)	T	p-Isopropyltol...	3.910	3.509	3.554	3.484	3.397	3.575	3.572	4.96
87)	T	1,3-Dichlorobe...	2.105	1.745	1.714	1.684	1.642	1.740	1.772	9.46
88)	T	1,4-Dichlorobe...	2.421	1.804	1.736	1.675	1.627	1.752	1.836	15.98
89)	T	n-Butylbenzene	4.197	3.319	3.378	3.354	3.310	3.487	3.507	9.80
90)	T	Hexachloroethane	0.682	0.599	0.602	0.610	0.633	0.683	0.635	6.11
91)	T	1,2-Dichlorobe...	1.908	1.730	1.693	1.639	1.595	1.695	1.710	6.32
92)	T	1,2-Dibromo-3-...	0.238	0.250	0.272	0.285	0.309	0.337	0.282	13.06
93)	T	1,2,4-Trichlor...	1.513	1.038	1.085	1.077	1.093	1.194	1.167	15.22
94)	T	Hexachlorobuta...	0.695	0.526	0.508	0.501	0.497	0.525	0.542	14.01
95)	T	Naphthalene	3.783	3.138	3.527	3.726	3.816	4.205	3.699	9.53
96)	T	1,2,3-Trichlor...	1.500	1.042	1.078	1.092	1.108	1.198	1.170	14.55

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046518.D
 Acq On : 06 Jun 2025 09:42
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:40:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	104428	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	181356	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	164496	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	81515	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	10415	5.606	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	11.220%#		
35) Dibromofluoromethane	5.391	113	7110	5.331	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	10.660%#		
50) Toluene-d8	8.653	98	24704	5.618	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	11.240%#		
62) 4-Bromofluorobenzene	11.079	95	10224	5.620	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	11.240%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	7726	5.329	ug/l	99
3) Chloromethane	1.307	50	7698	5.833	ug/l	99
4) Vinyl Chloride	1.386	62	7283	5.536	ug/l	92
5) Bromomethane	1.618	94	6181	7.740	ug/l	89
6) Chloroethane	1.697	64	4764	5.582	ug/l	98
7) Trichlorofluoromethane	1.904	101	11861	5.450	ug/l	97
8) Diethyl Ether	2.148	74	3843	4.997	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	7299	5.323	ug/l	98
10) Methyl Iodide	2.465	142	6815	4.585	ug/l	96
11) Tert butyl alcohol	2.971	59	4565	22.143	ug/l	97
12) 1,1-Dichloroethene	2.331	96	6923	5.584	ug/l	92
13) Acrolein	2.246	56	2067	37.301	ug/l	95
14) Allyl chloride	2.678	41	12513	5.139	ug/l	99
15) Acrylonitrile	3.075	53	19139	24.554	ug/l	100
16) Acetone	2.392	43	18117	28.970	ug/l	92
17) Carbon Disulfide	2.526	76	16895	6.594	ug/l	99
18) Methyl Acetate	2.715	43	9089	4.107	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	21281	4.905	ug/l	100
20) Methylene Chloride	2.800	84	7851	5.267	ug/l	95
21) trans-1,2-Dichloroethene	3.105	96	6901	5.260	ug/l	87
22) Diisopropyl ether	3.770	45	24417	5.086	ug/l #	55
23) Vinyl Acetate	3.739	43	90187	24.333	ug/l	97
24) 1,1-Dichloroethane	3.617	63	14092	5.267	ug/l	98
25) 2-Butanone	4.581	43	23977	23.183	ug/l	98
26) 2,2-Dichloropropane	4.483	77	9718	4.893	ug/l	95
27) cis-1,2-Dichloroethene	4.495	96	8212	5.084	ug/l	97
28) Bromochloromethane	4.910	49	6807	5.334	ug/l #	99
29) Tetrahydrofuran	5.026	42	15713	24.057	ug/l	93
30) Chloroform	5.099	83	14532	5.184	ug/l	94
31) Cyclohexane	5.483	56	12241	5.667	ug/l	89
32) 1,1,1-Trichloroethane	5.391	97	12216	5.094	ug/l	97
36) 1,1-Dichloropropene	5.702	75	10048	5.274	ug/l	96
37) Ethyl Acetate	4.733	43	8766	4.716	ug/l #	89
38) Carbon Tetrachloride	5.690	117	10857	5.088	ug/l	98
39) Methylcyclohexane	7.385	83	12614	5.610	ug/l	97
40) Benzene	6.044	78	28961	5.400	ug/l	96

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046518.D
 Acq On : 06 Jun 2025 09:42
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:40:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	5621	4.868	ug/l #	90
42) 1,2-Dichloroethane	6.092	62	11718	5.252	ug/l	100
43) Isopropyl Acetate	6.349	43	15275	4.712	ug/l #	97
44) Trichloroethene	7.129	130	6978	5.121	ug/l	99
45) 1,2-Dichloropropane	7.434	63	7132	5.152	ug/l	97
46) Dibromomethane	7.586	93	5588	5.366	ug/l	97
47) Bromodichloromethane	7.824	83	10524	4.915	ug/l	97
48) Methyl methacrylate	7.708	41	7663	4.595	ug/l	97
49) 1,4-Dioxane	7.665	88	2221	99.585	ug/l	98
51) 4-Methyl-2-Pentanone	8.574	43	49709	24.133	ug/l	99
52) Toluene	8.720	92	17773	5.394	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	8503	4.429	ug/l	100
54) cis-1,3-Dichloropropene	8.373	75	10282	4.817	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	6794	5.136	ug/l	97
56) Ethyl methacrylate	9.122	69	9723	4.777	ug/l	97
57) 1,3-Dichloropropane	9.311	76	12033	5.148	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.245	63	27324	24.645	ug/l	97
59) 2-Hexanone	9.433	43	34128	23.102	ug/l	98
60) Dibromochloromethane	9.519	129	7808	5.018	ug/l	96
61) 1,2-Dibromoethane	9.610	107	6661	4.833	ug/l	94
64) Tetrachloroethene	9.275	164	5704	5.186	ug/l	90
65) Chlorobenzene	10.080	112	19529	5.048	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	6488	4.963	ug/l	98
67) Ethyl Benzene	10.195	91	34429	5.098	ug/l	98
68) m/p-Xylenes	10.299	106	24857	10.146	ug/l	99
69) o-Xylene	10.640	106	11976	5.054	ug/l	99
70) Styrene	10.659	104	19826	4.888	ug/l	98
71) Bromoform	10.799	173	4418	4.432	ug/l #	96
73) Isopropylbenzene	10.964	105	32087	5.007	ug/l	99
74) N-amyl acetate	10.848	43	13145	4.658	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.214	83	10551	5.144	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	8330m	4.746	ug/l	
77) Bromobenzene	11.195	156	7367	4.953	ug/l	98
78) n-propylbenzene	11.305	91	37974	4.896	ug/l	99
79) 2-Chlorotoluene	11.366	91	23514	5.028	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	27140	5.083	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	2236	3.736	ug/l #	77
82) 4-Chlorotoluene	11.457	91	27633	4.985	ug/l	97
83) tert-Butylbenzene	11.713	119	27238	5.011	ug/l	99
84) 1,2,4-Trimethylbenzene	11.750	105	26973	4.993	ug/l	97
85) sec-Butylbenzene	11.890	105	35458	5.077	ug/l	97
86) p-Isopropyltoluene	12.006	119	28606	4.913	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	14222	4.924	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	14704	4.913	ug/l	87
89) n-Butylbenzene	12.329	91	27055	4.731	ug/l	99
90) Hexachloroethane	12.536	117	4884	4.719	ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	14100	5.058	ug/l	98
92) 1,2-Dibromo-3-Chloropr...	12.945	75	2035	4.431	ug/l	95
93) 1,2,4-Trichlorobenzene	13.585	180	8458	4.447	ug/l	99
94) Hexachlorobutadiene	13.725	225	4285	4.848	ug/l	97
95) Naphthalene	13.774	128	25583	4.242	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	8491	4.453	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046518.D
Acq On : 06 Jun 2025 09:42
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:40:47 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

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

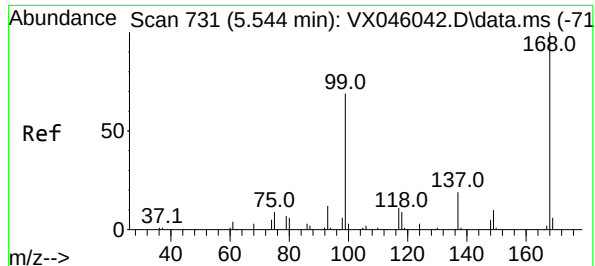
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Manual Integrations

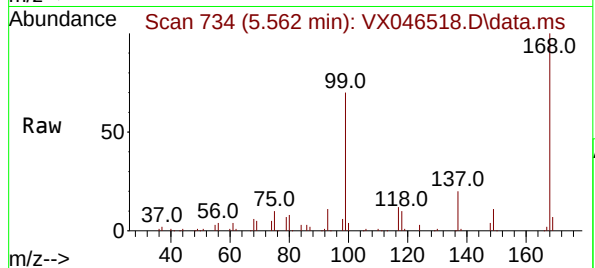
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

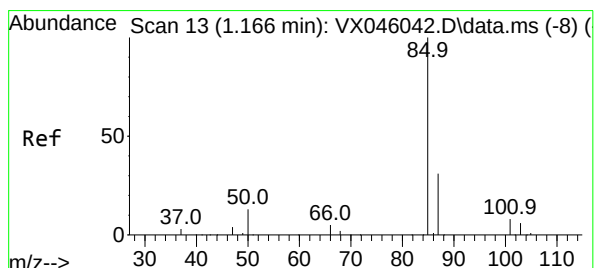
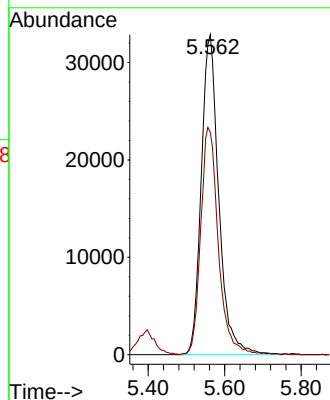
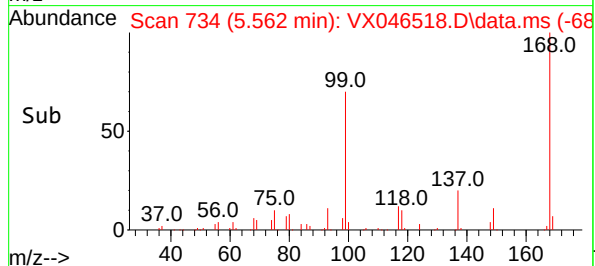
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:168 Resp: 104428
Ion Ratio Lower Upper
168 100
99 69.6 54.9 82.3

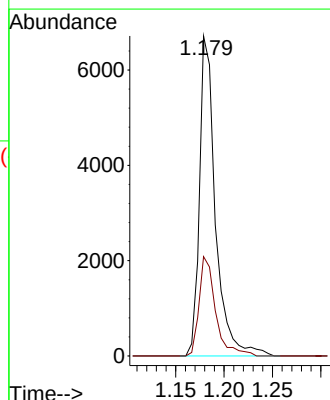
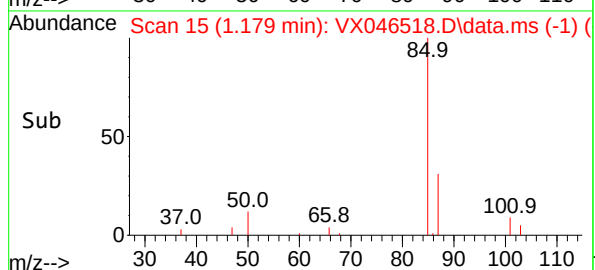
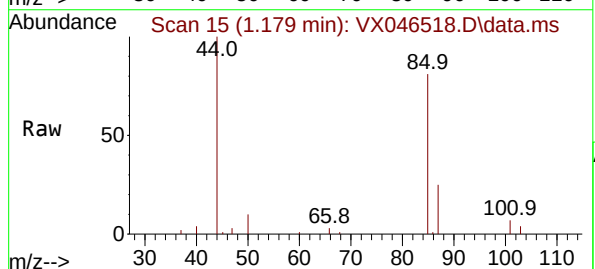
Manual Integrations
APPROVED

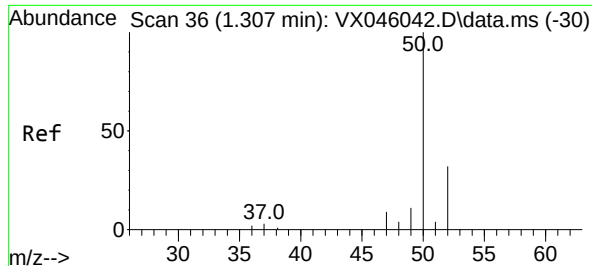
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 5.329 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

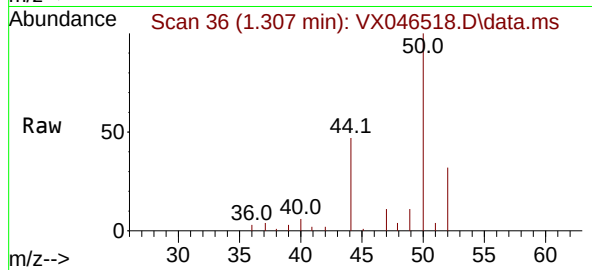
Tgt Ion: 85 Resp: 7726
Ion Ratio Lower Upper
85 100
87 31.1 15.7 47.1





#3
Chloromethane
Concen: 5.833 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

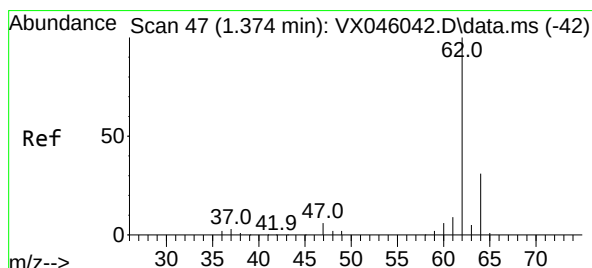
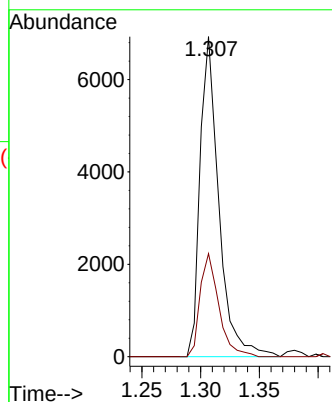
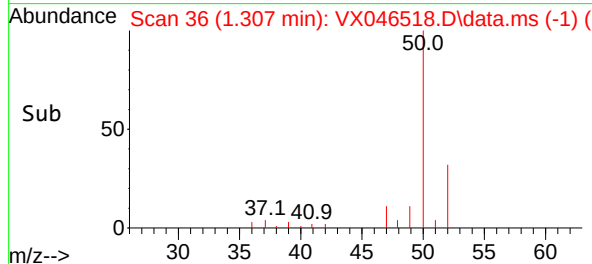
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 50 Resp: 7698
Ion Ratio Lower Upper
50 100
52 32.2 25.4 38.2

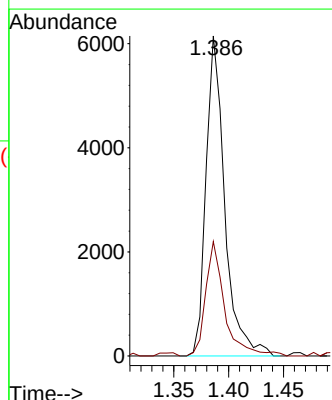
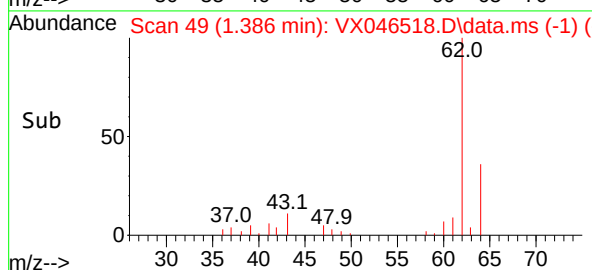
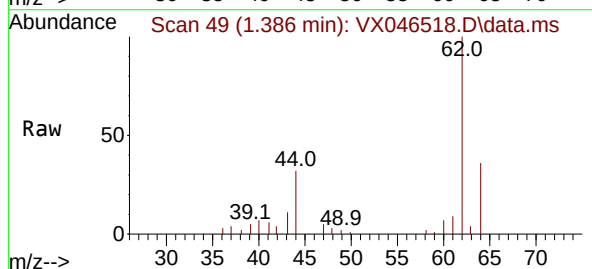
Manual Integrations
APPROVED

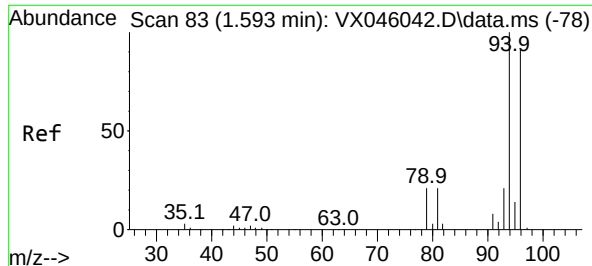
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 5.536 ug/l
RT: 1.386 min Scan# 49
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

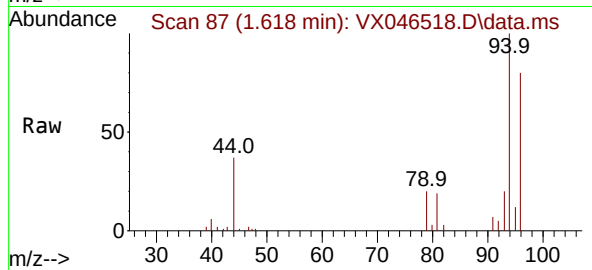
Tgt Ion: 62 Resp: 7283
Ion Ratio Lower Upper
62 100
64 35.8 25.2 37.8





#5
Bromomethane
Concen: 7.740 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

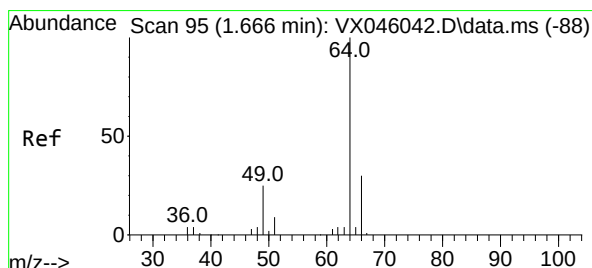
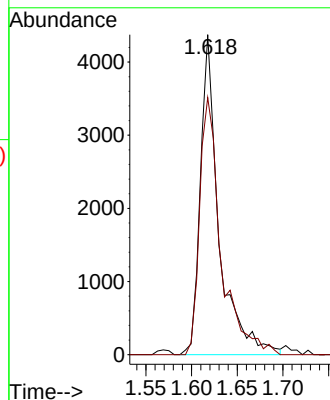
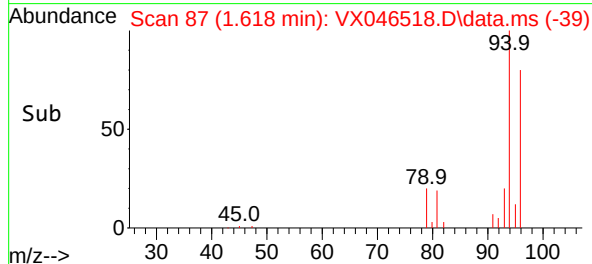
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 94 Resp: 618
Ion Ratio Lower Upper
94 100
96 80.3 72.8 109.2

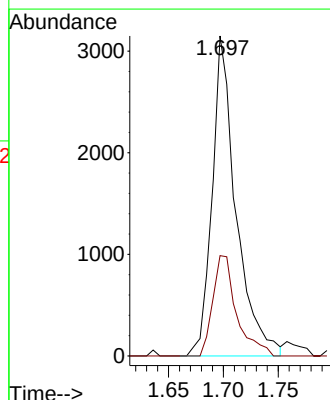
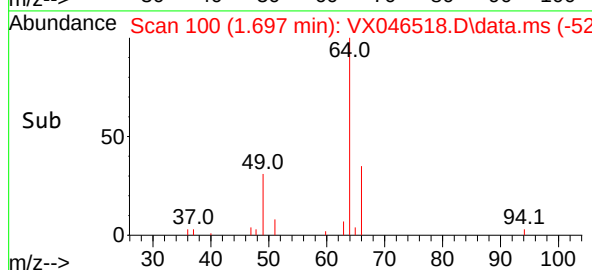
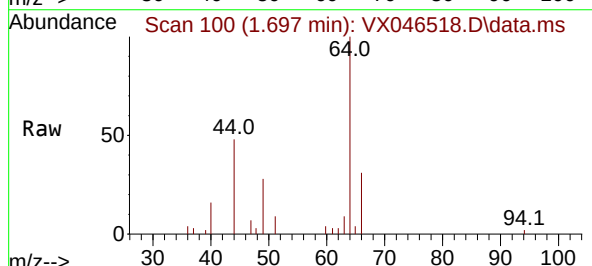
Manual Integrations
APPROVED

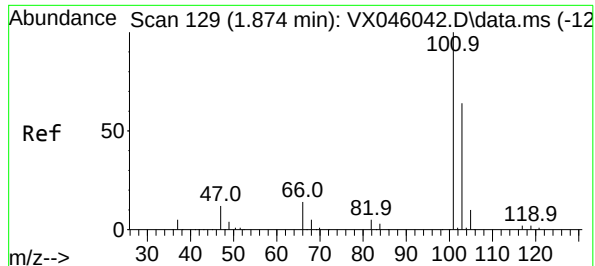
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 5.582 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

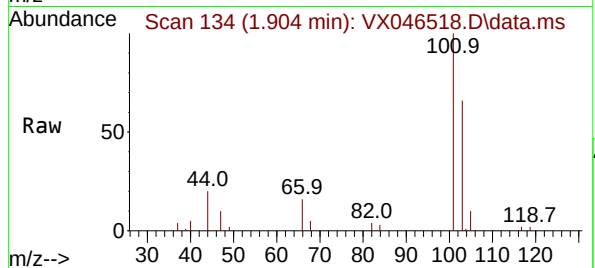
Tgt Ion: 64 Resp: 4764
Ion Ratio Lower Upper
64 100
66 31.3 24.3 36.5





#7
Trichlorofluoromethane
Concen: 5.450 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

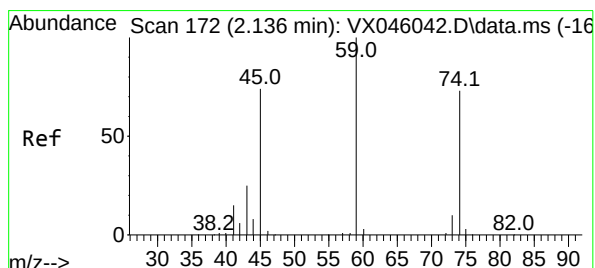
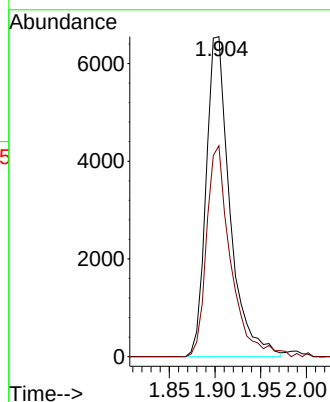
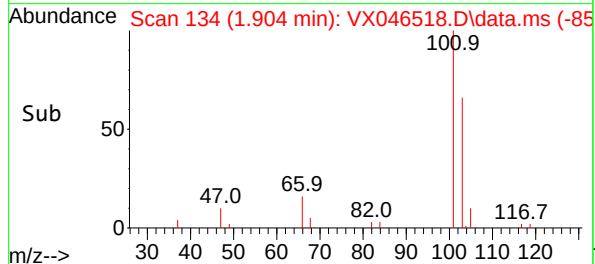
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:101 Resp: 1186
Ion Ratio Lower Upper
101 100
103 65.9 51.0 76.4

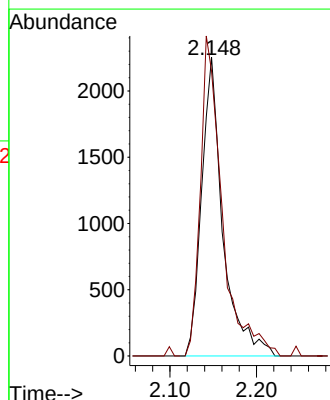
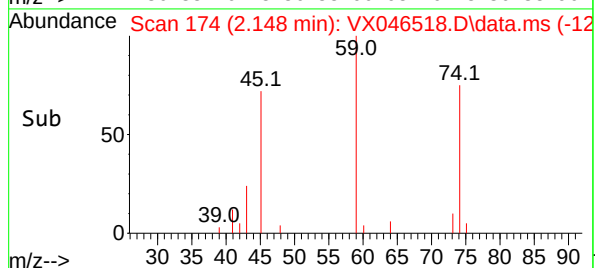
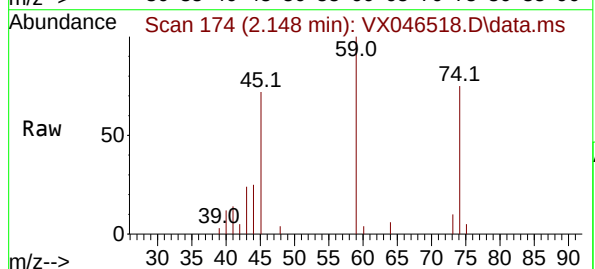
Manual Integrations
APPROVED

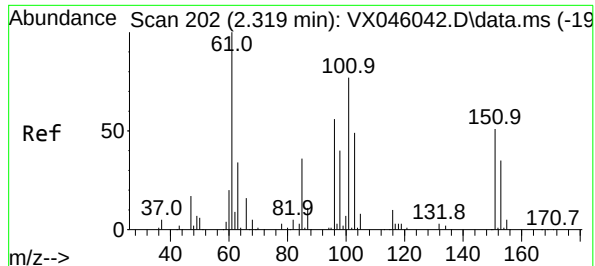
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 4.997 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 74 Resp: 3843
Ion Ratio Lower Upper
74 100
45 110.0 54.9 164.8





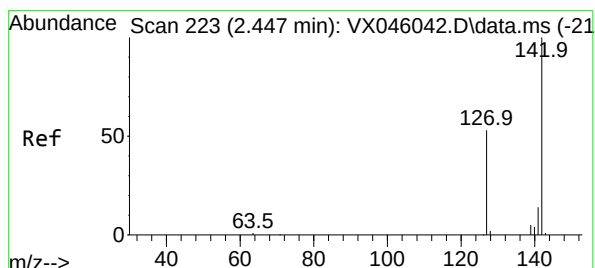
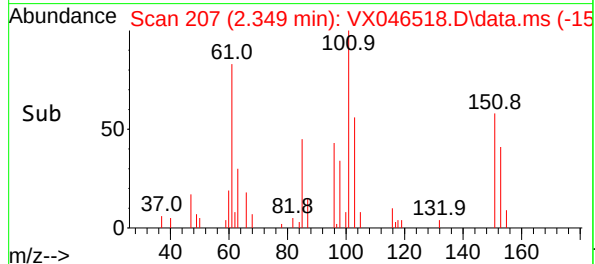
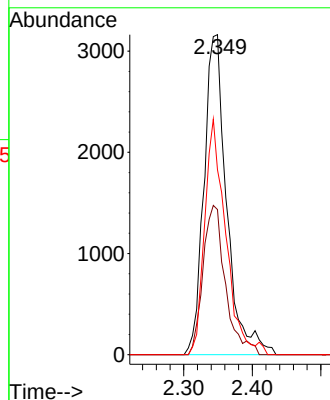
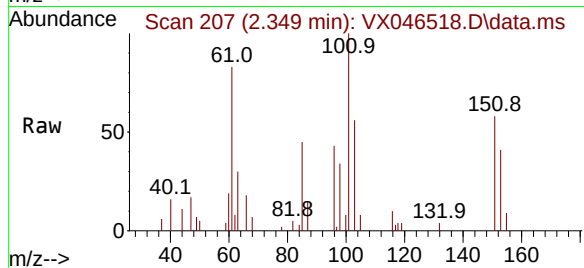
#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.323 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion:101 Resp: 7295
Ion Ratio Lower Upper
101 100
85 46.0 38.6 58.0
151 68.4 55.2 82.8

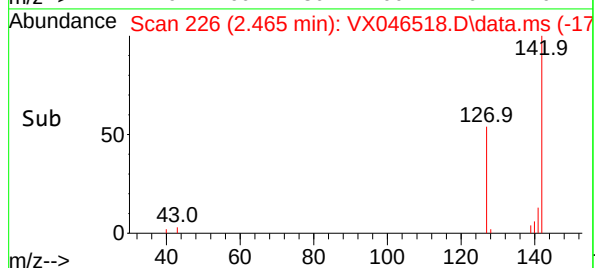
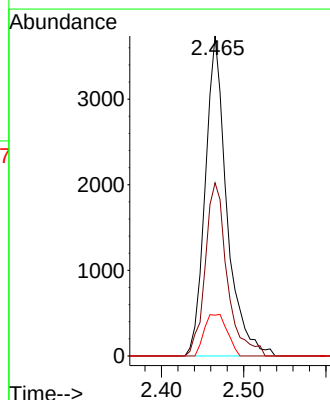
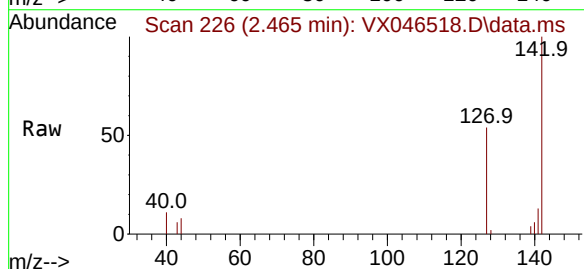
Manual Integrations
APPROVED

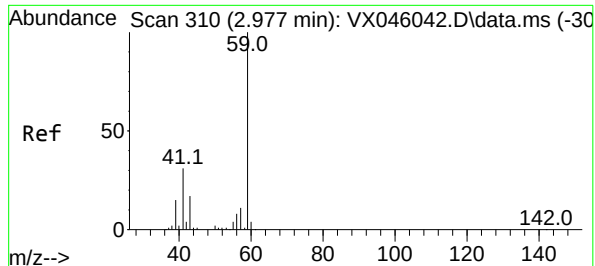
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 4.585 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:142 Resp: 6815
Ion Ratio Lower Upper
142 100
127 55.0 41.7 62.5
141 13.8 11.5 17.3





#11

Tert butyl alcohol

Concen: 22.143 ug/l

RT: 2.971 min Scan# 309

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 59 Resp: 456

Ion Ratio Lower Upper

59 100

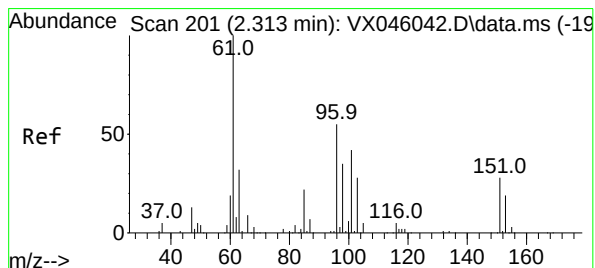
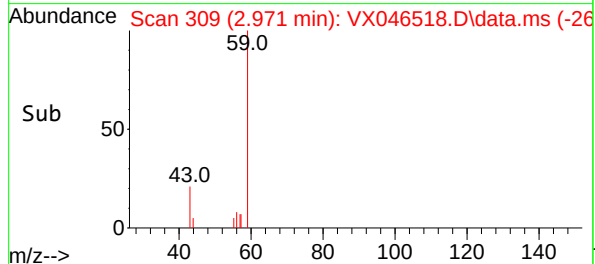
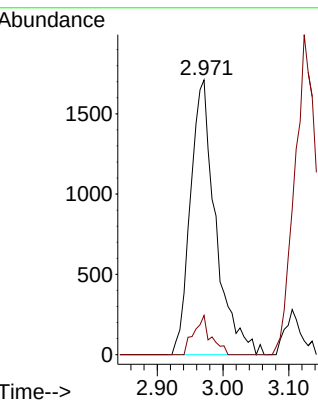
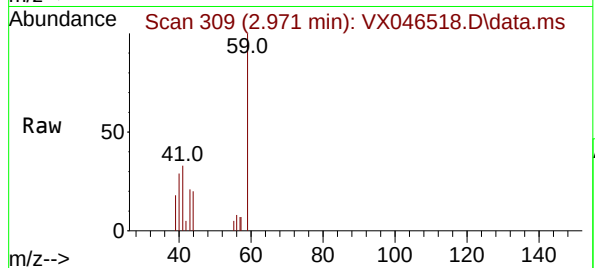
57 9.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 5.584 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

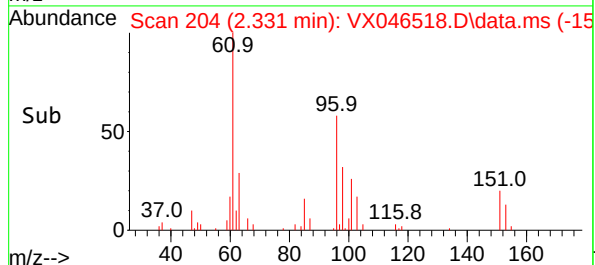
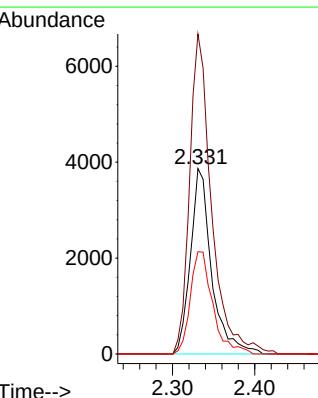
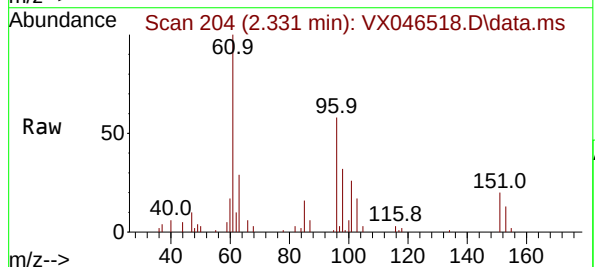
Tgt Ion: 96 Resp: 6923

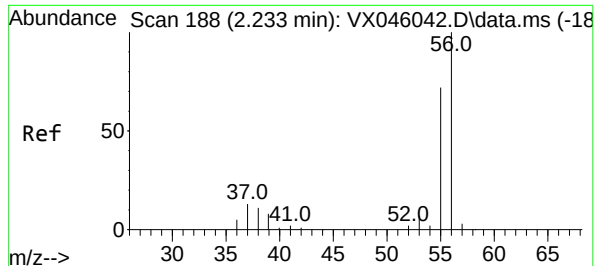
Ion Ratio Lower Upper

96 100

61 172.5 146.2 219.2

98 55.2 51.0 76.6





#13

Acrolein

Concen: 37.301 ug/l

RT: 2.246 min Scan# 190

Delta R.T. -0.005 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion: 56 Resp: 206

Ion Ratio Lower Upper

56 100

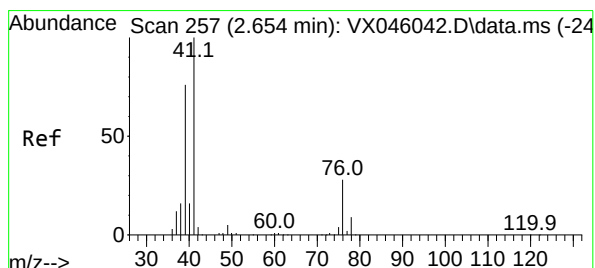
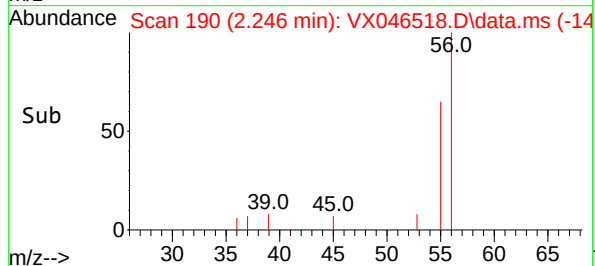
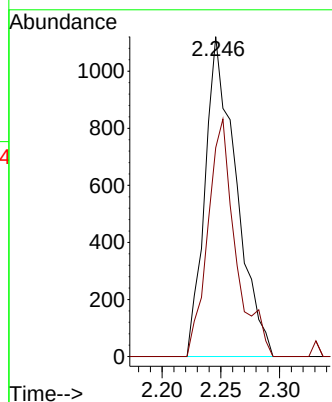
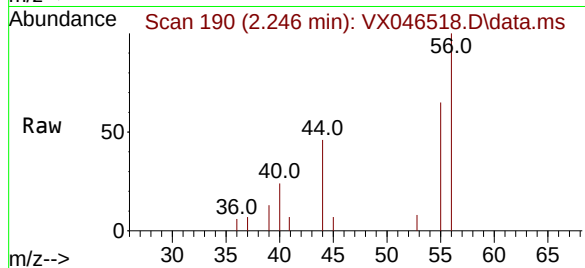
55 66.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 5.139 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

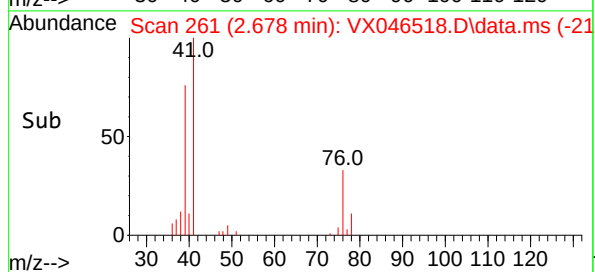
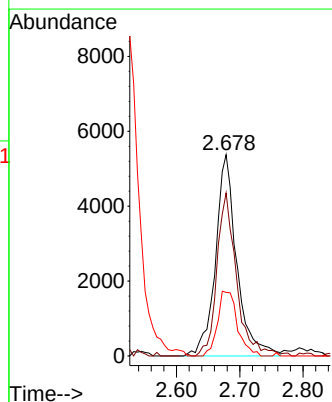
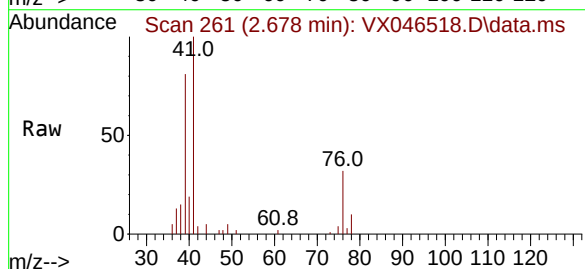
Tgt Ion: 41 Resp: 12513

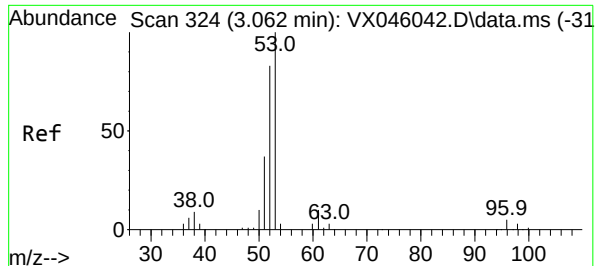
Ion Ratio Lower Upper

41 100

39 74.9 60.6 90.8

76 30.0 24.9 37.3





#15

Acrylonitrile

Concen: 24.554 ug/l

RT: 3.075 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

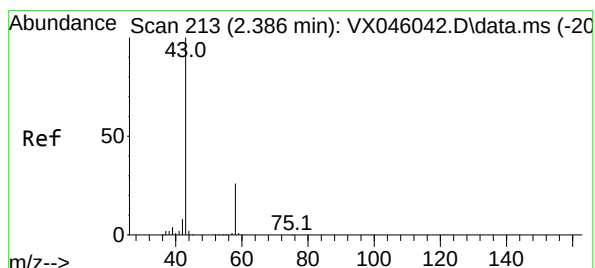
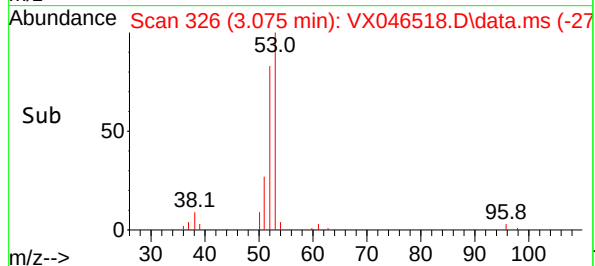
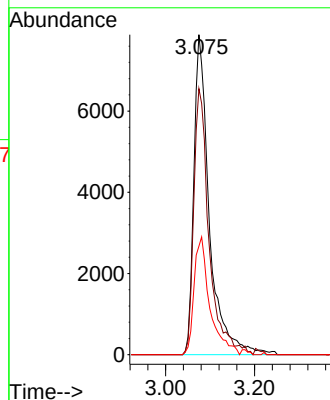
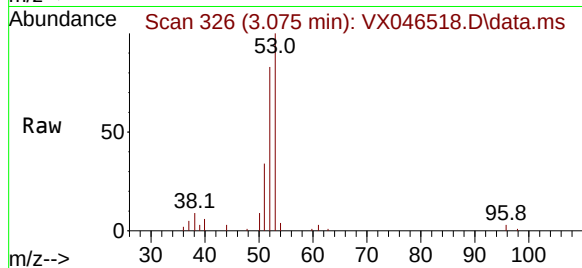
Tgt Ion:	53	Resp:	19139
Ion	Ratio	Lower	Upper
53	100		
52	81.8	65.3	97.9
51	37.2	29.8	44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 28.970 ug/l

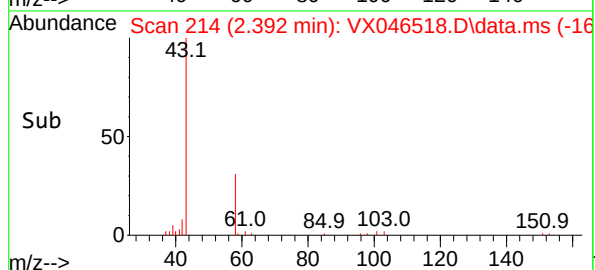
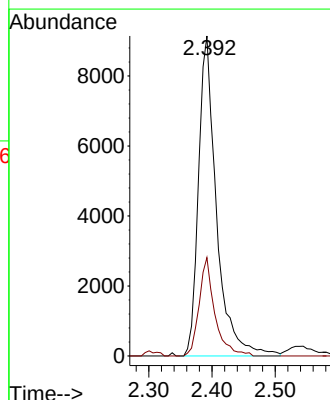
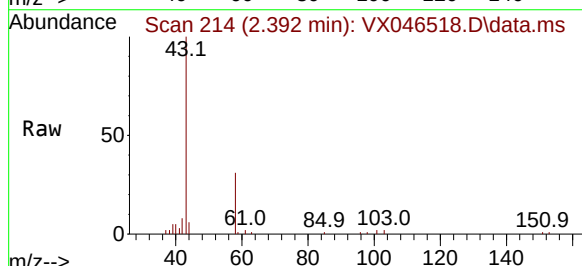
RT: 2.392 min Scan# 214

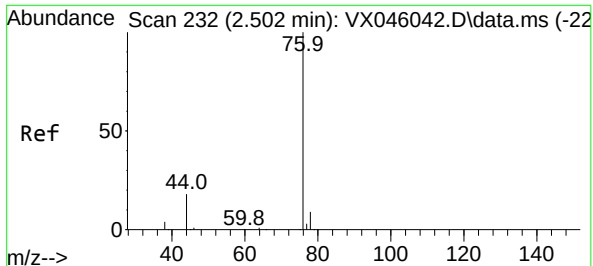
Delta R.T. -0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	43	Resp:	18117
Ion	Ratio	Lower	Upper
43	100		
58	30.8	21.2	31.8





#17

Carbon Disulfide

Concen: 6.594 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046518.D

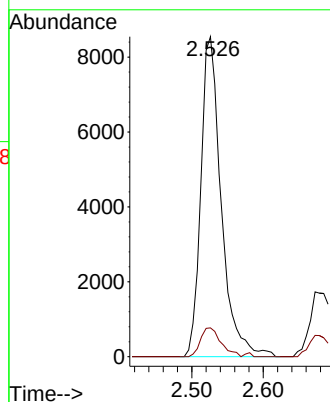
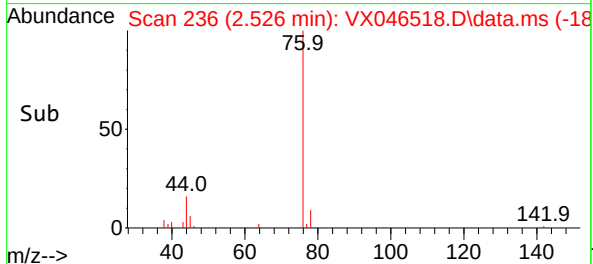
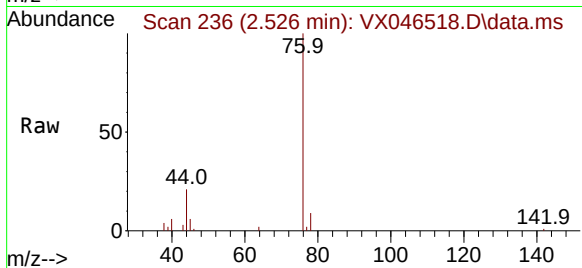
Acq: 06 Jun 2025 09:42

Tgt Ion: 76 Resp: 1689

Ion Ratio Lower Upper

76 100

78 9.0 7.0 10.4



Instrument :

MSVOA_X

ClientSampleId :

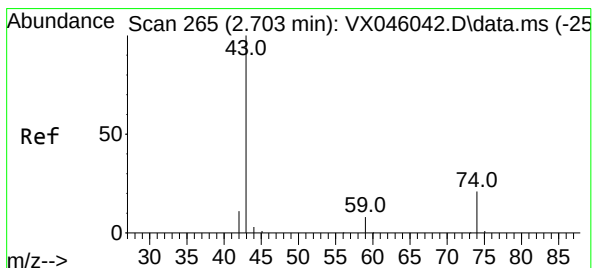
VSTDIC005

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 4.107 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.006 min

Lab File: VX046518.D

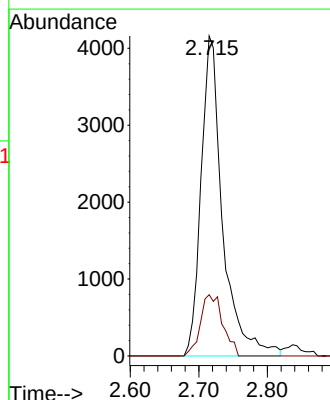
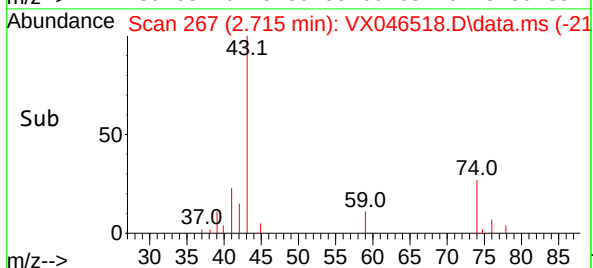
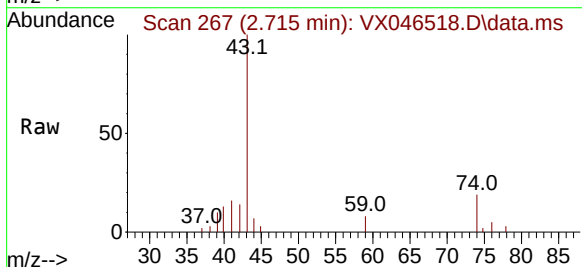
Acq: 06 Jun 2025 09:42

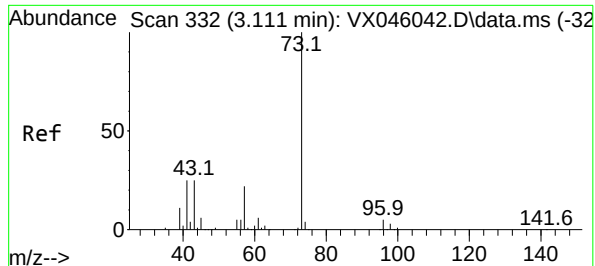
Tgt Ion: 43 Resp: 9089

Ion Ratio Lower Upper

43 100

74 19.9 16.7 25.1





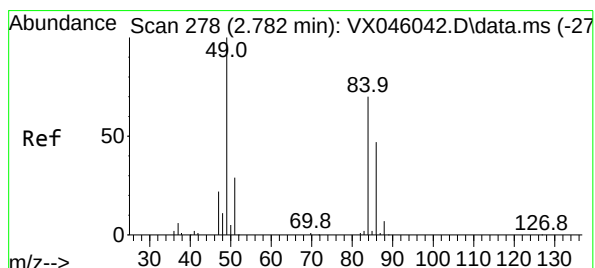
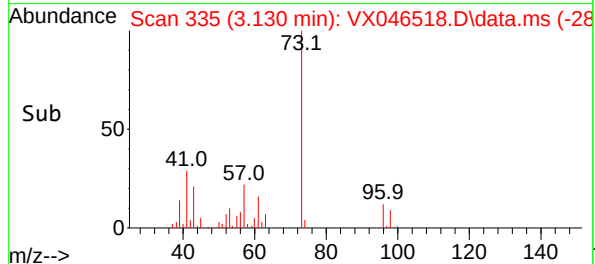
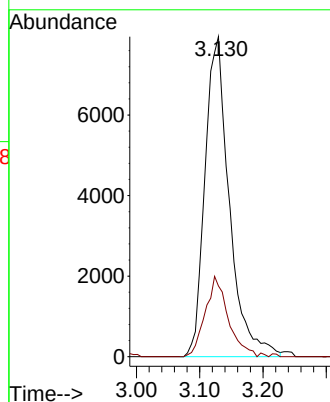
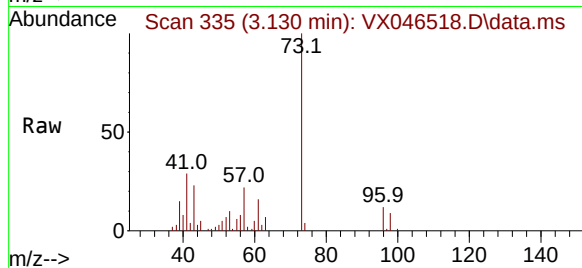
#19
Methyl tert-butyl Ether
Concen: 4.905 ug/l
RT: 3.130 min Scan# 311
Delta R.T. -0.005 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 73 Resp: 2128
Ion Ratio Lower Upper
73 100
57 22.1 17.7 26.5

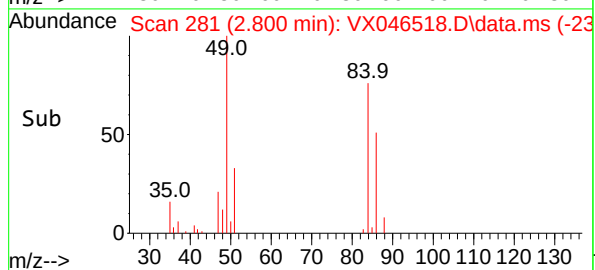
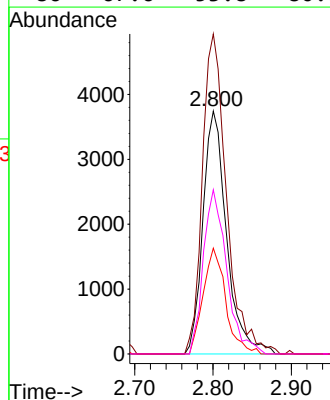
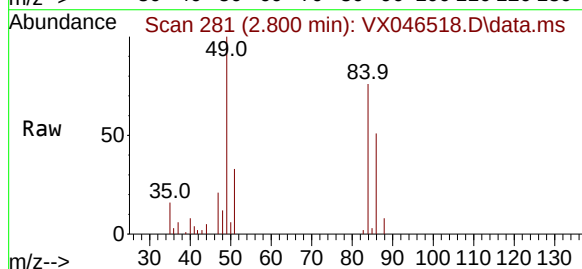
Manual Integrations
APPROVED

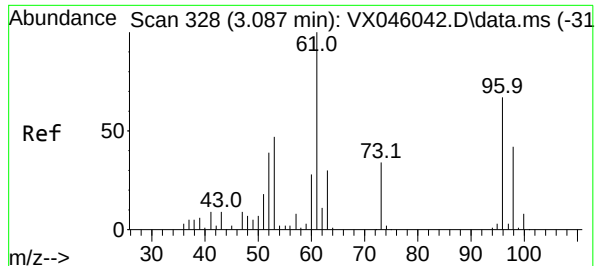
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 5.267 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

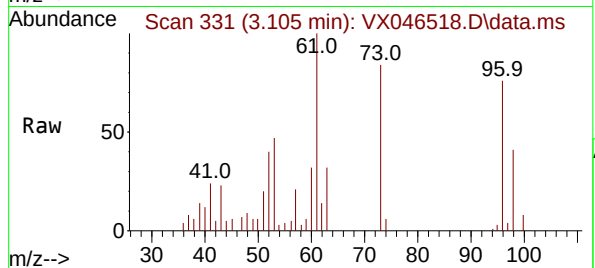
Tgt Ion: 84 Resp: 7851
Ion Ratio Lower Upper
84 100
49 131.8 113.9 170.9
51 43.5 33.5 50.3
86 67.6 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 5.260 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

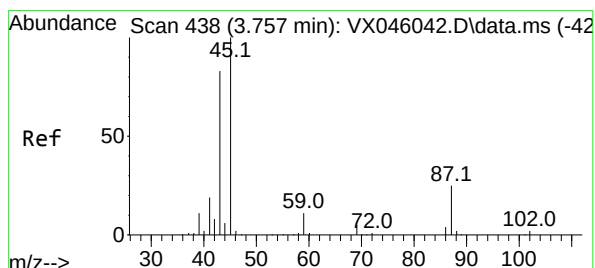
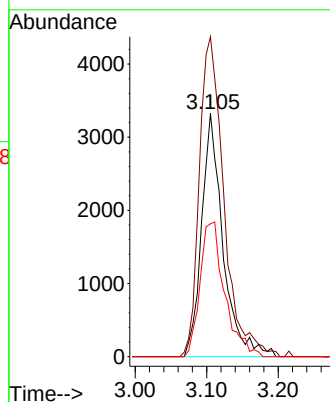
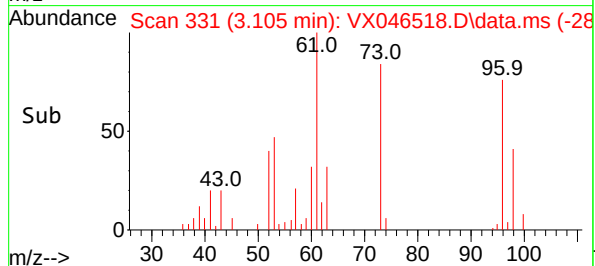
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion: 96 Resp: 690
Ion Ratio Lower Upper
96 100
61 131.6 119.5 179.3
98 54.6 50.0 75.0

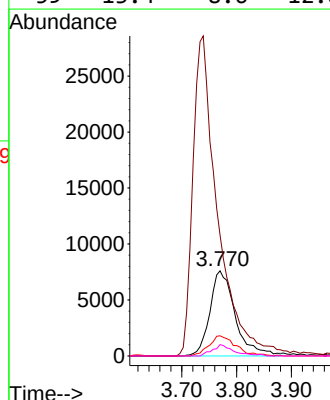
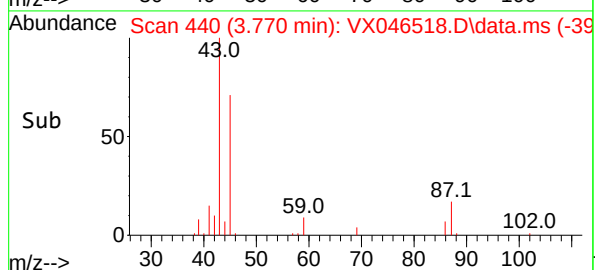
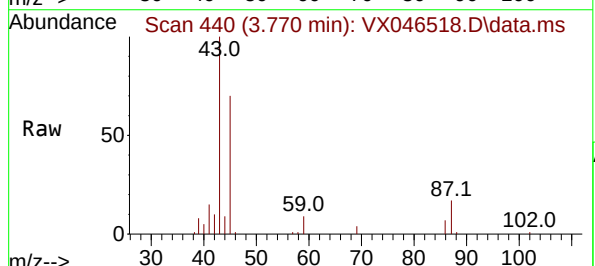
Manual Integrations
APPROVED

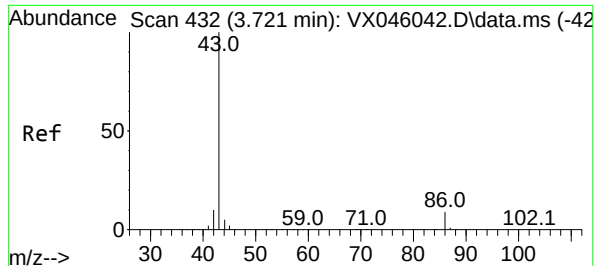
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 5.086 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.012 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

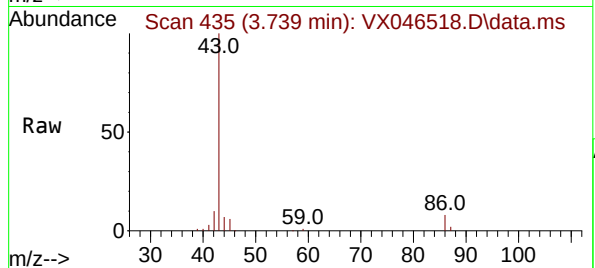
Tgt Ion: 45 Resp: 24417
Ion Ratio Lower Upper
45 100
43 139.2 66.6 100.0#
87 23.6 19.8 29.6
59 13.4 8.6 12.8#





#23
Vinyl Acetate
Concen: 24.333 ug/l
RT: 3.739 min Scan# 415
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

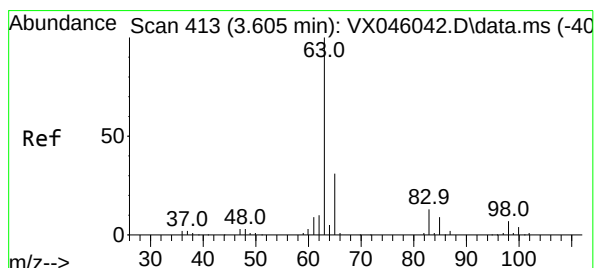
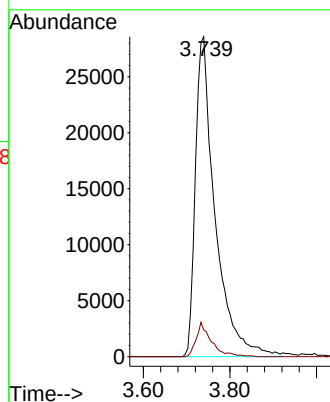
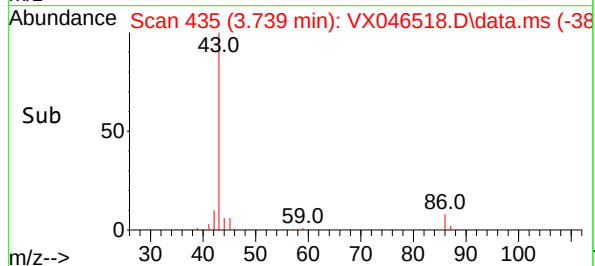
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 43 Resp: 9018
Ion Ratio Lower Upper
43 100
86 8.4 7.5 11.3

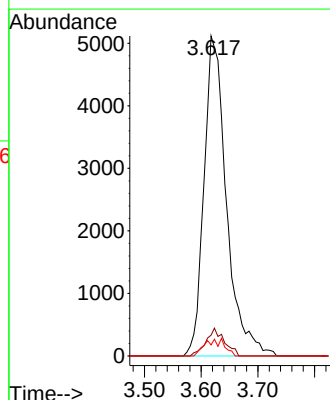
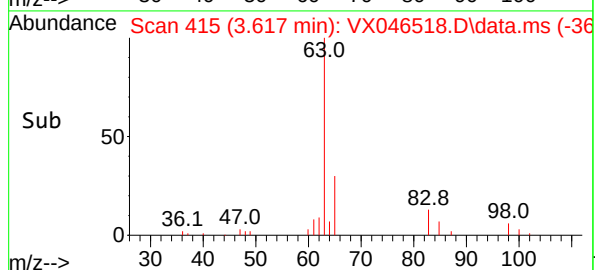
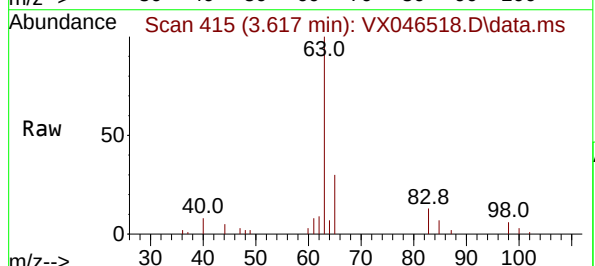
Manual Integrations
APPROVED

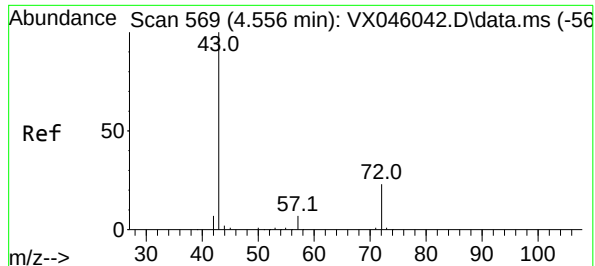
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 5.267 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 63 Resp: 14092
Ion Ratio Lower Upper
63 100
98 6.5 3.6 10.8
100 3.4 2.1 6.3





#25

2-Butanone

Concen: 23.183 ug/l

RT: 4.581 min Scan# 51

Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 2397

Ion Ratio Lower Upper

43 100

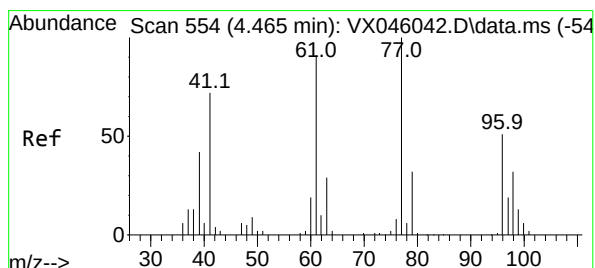
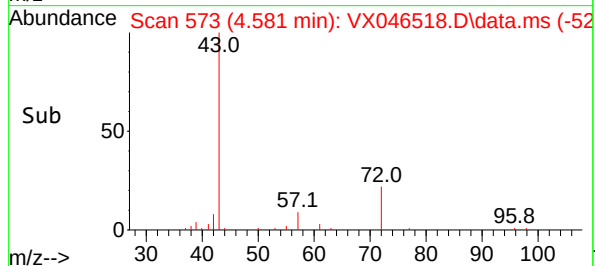
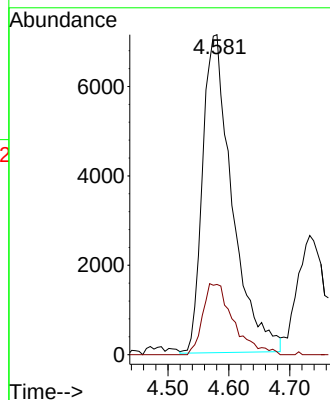
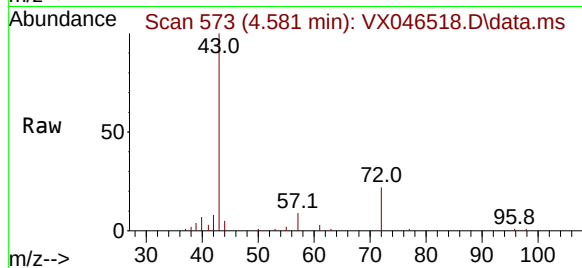
72 22.1 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 4.893 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046518.D

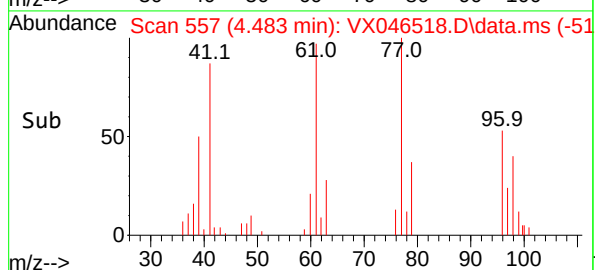
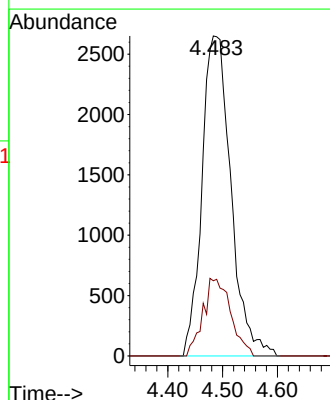
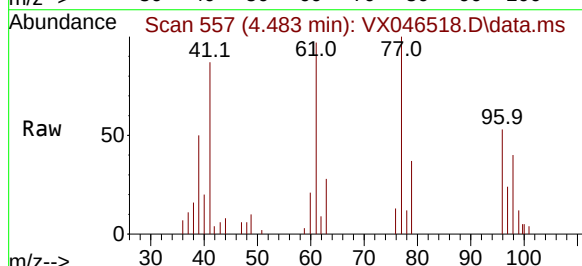
Acq: 06 Jun 2025 09:42

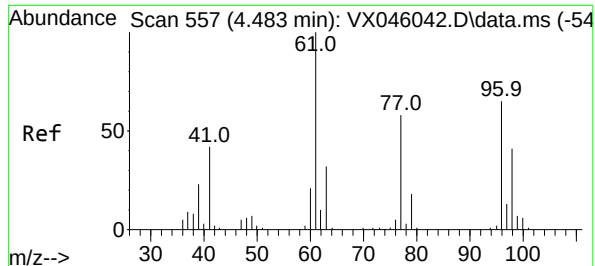
Tgt Ion: 77 Resp: 9718

Ion Ratio Lower Upper

77 100

97 23.2 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 5.084 ug/l

RT: 4.495 min Scan# 511

Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 96 Resp: 821

Ion Ratio Lower Upper

96 100

61 157.9 0.0 322.8

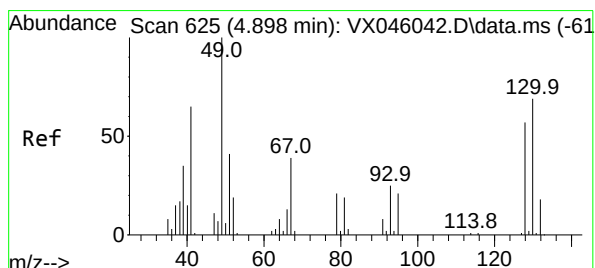
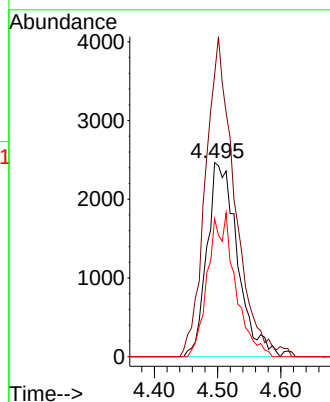
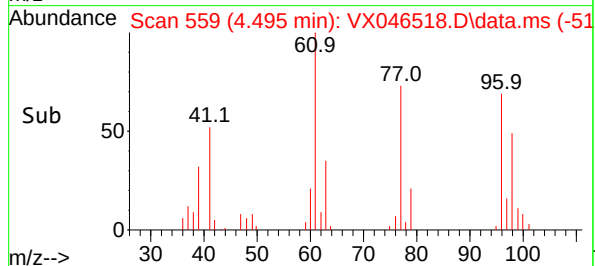
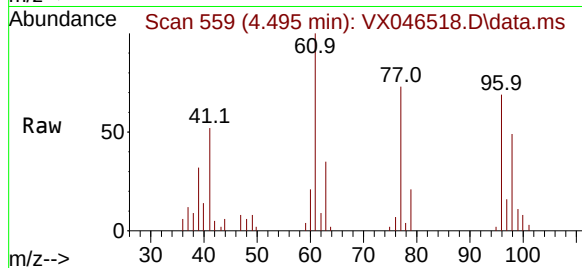
98 66.6 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 5.334 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

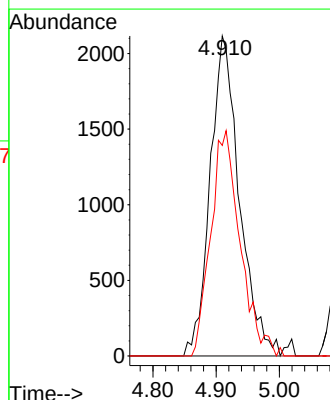
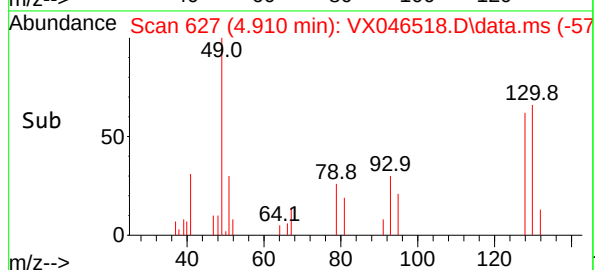
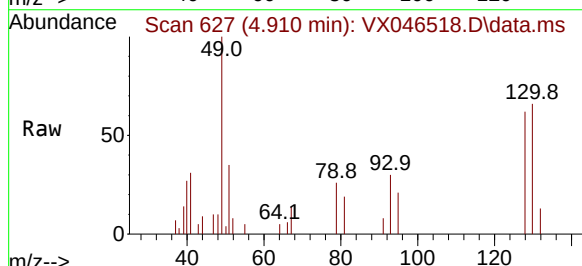
Tgt Ion: 49 Resp: 6807

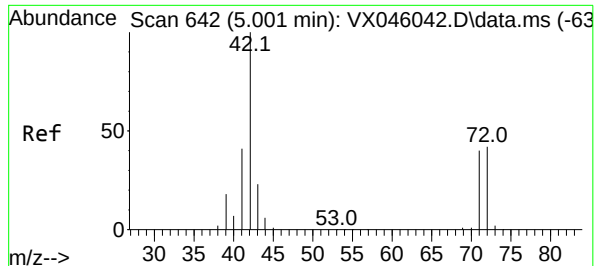
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 70.8 56.2 84.2





#29

Tetrahydrofuran

Concen: 24.057 ug/l

RT: 5.026 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

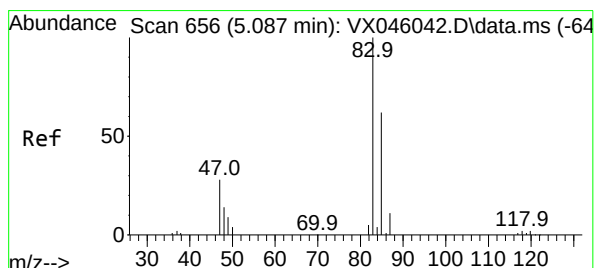
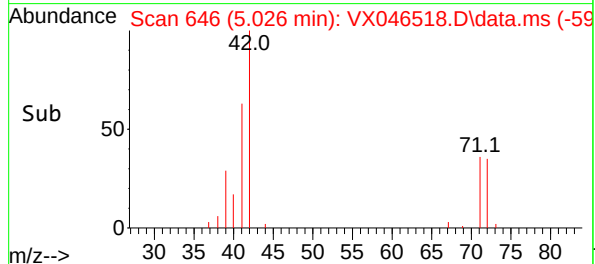
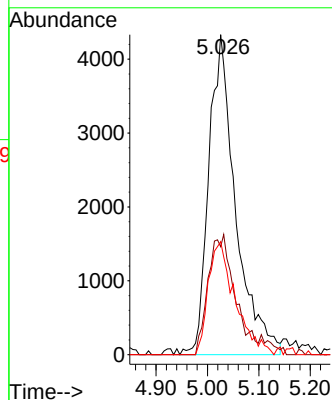
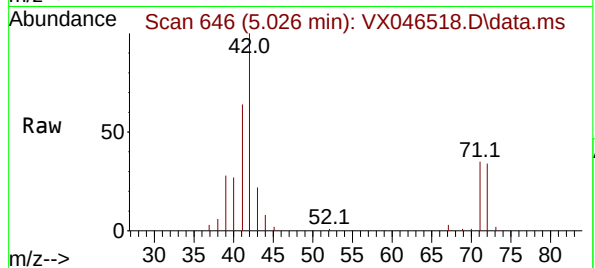
Tgt Ion:	42	Resp:	1571
Ion	Ratio	Lower	Upper
42	100		
72	37.4	33.7	50.5
71	35.4	31.4	47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 5.184 ug/l

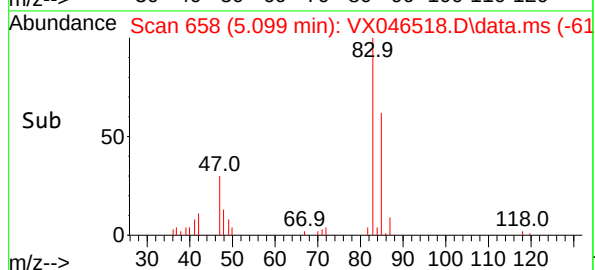
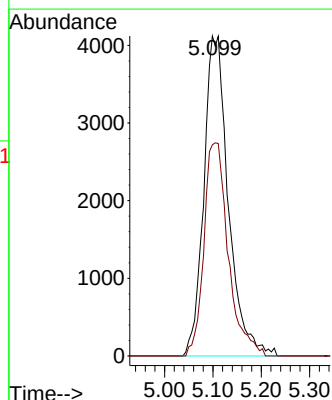
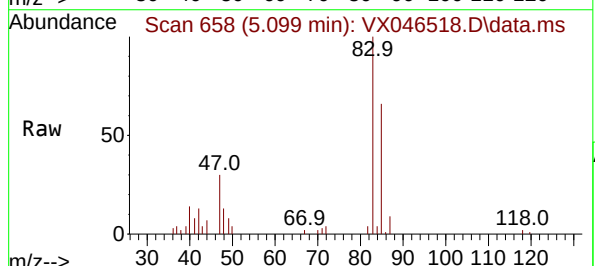
RT: 5.099 min Scan# 658

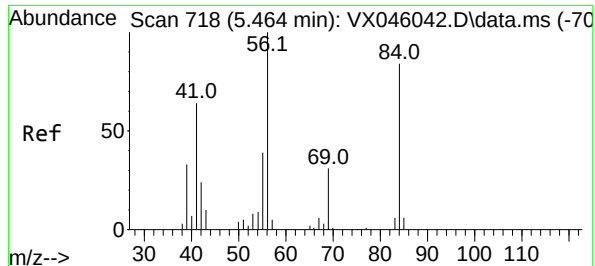
Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	83	Resp:	14532
Ion	Ratio	Lower	Upper
83	100		
85	66.0	49.3	73.9





#31

Cyclohexane

Concen: 5.667 ug/l

RT: 5.483 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 56 Resp: 1224

Ion Ratio Lower Upper

56 100

69 30.6 24.4 36.6

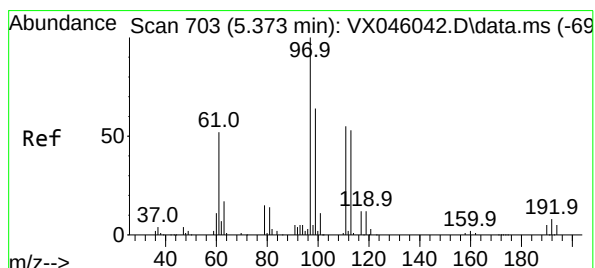
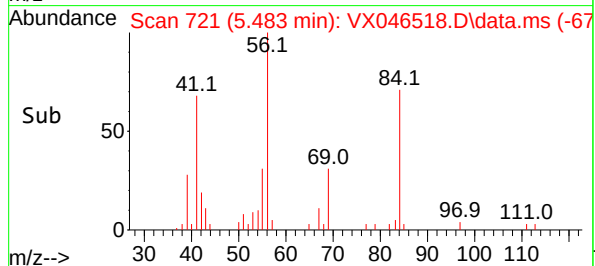
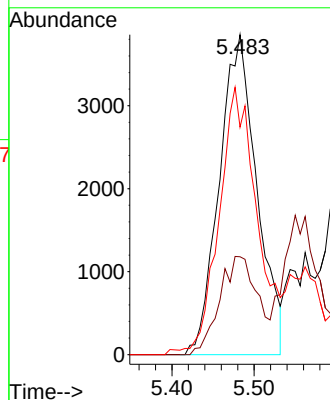
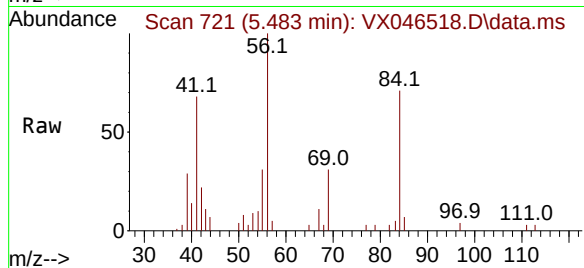
84 69.7 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 5.094 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

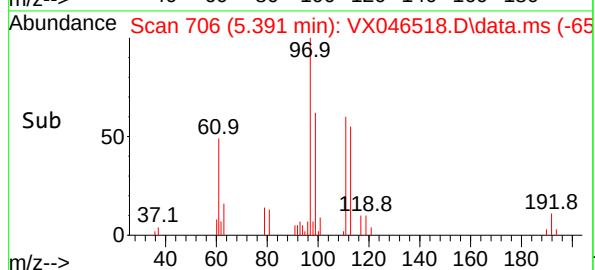
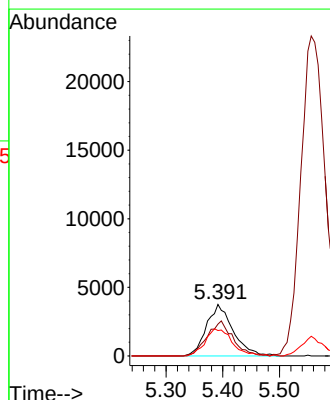
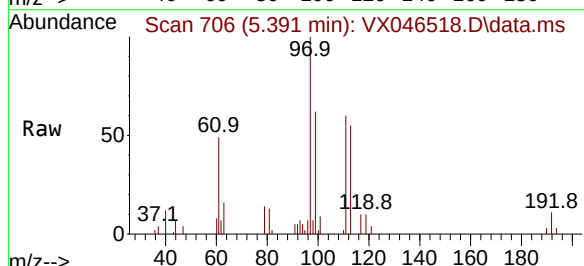
Tgt Ion: 97 Resp: 12216

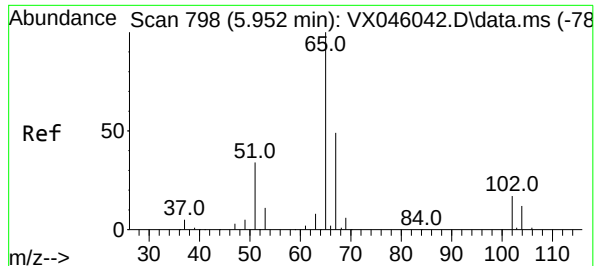
Ion Ratio Lower Upper

97 100

99 65.5 51.8 77.6

61 53.6 40.1 60.1





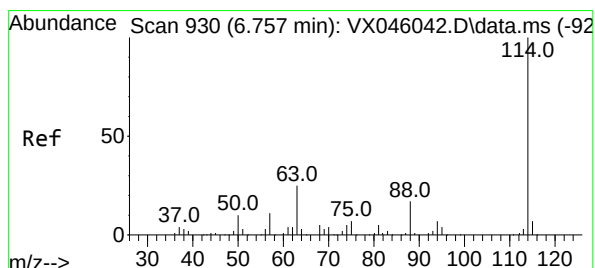
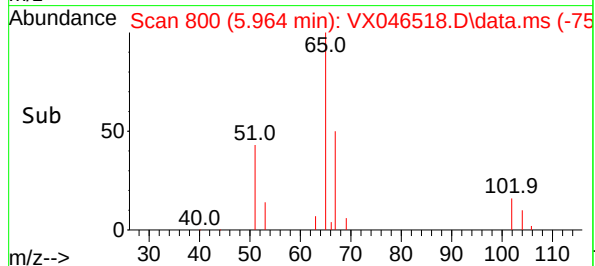
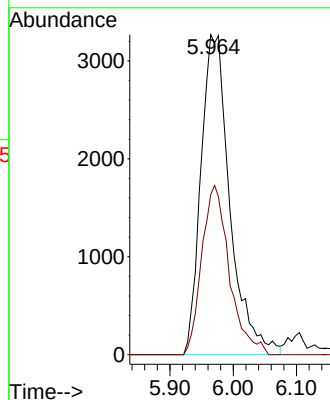
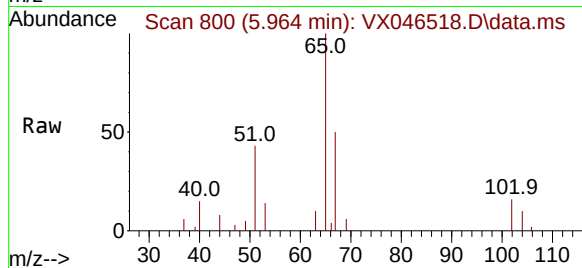
#33
1,2-Dichloroethane-d4
Concen: 5.606 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tgt Ion: 65 Resp: 1041
Ion Ratio Lower Upper
65 100
67 50.4 0.0 99.0

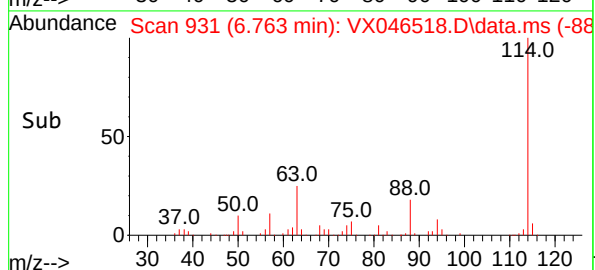
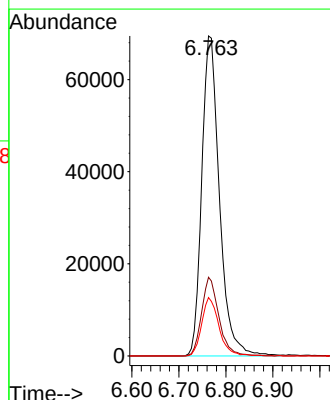
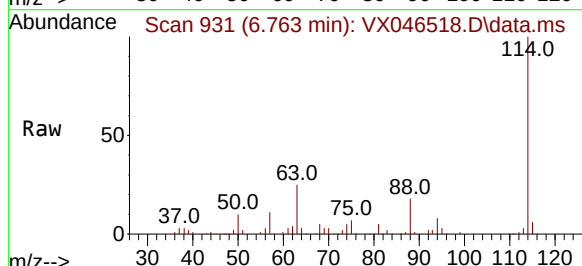
Manual Integrations
APPROVED

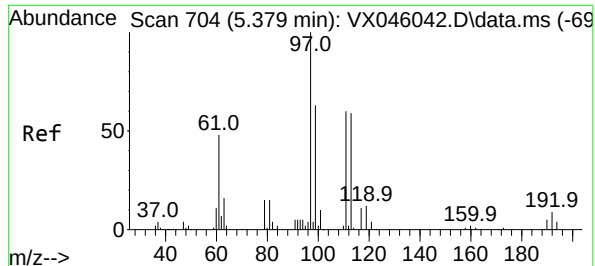
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.012 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:114 Resp: 181356
Ion Ratio Lower Upper
114 100
63 24.6 0.0 49.2
88 18.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 5.331 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.012 min

Lab File: VX046518.D

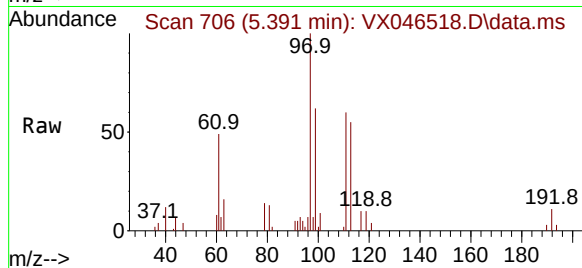
Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005



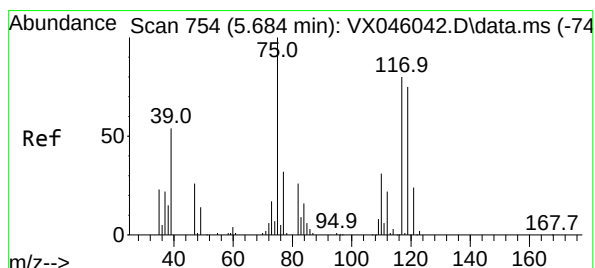
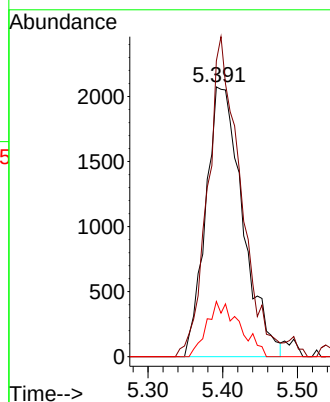
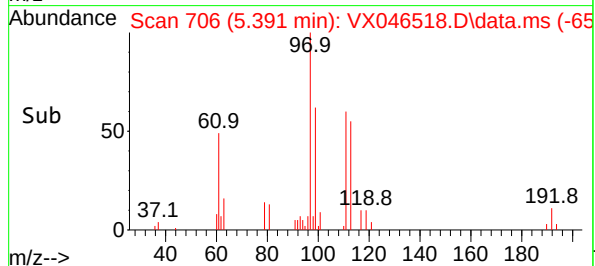
Tgt Ion:	113	Resp:	7110
Ion	Ratio	Lower	Upper
113	100		
111	105.5	83.1	124.7
192	18.1	13.3	19.9

Manual Integrations

APPROVED

Reviewed By :John Carbone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

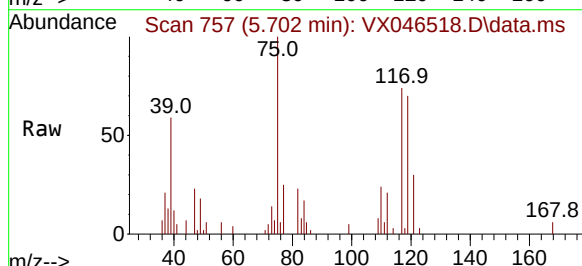
Concen: 5.274 ug/l

RT: 5.702 min Scan# 757

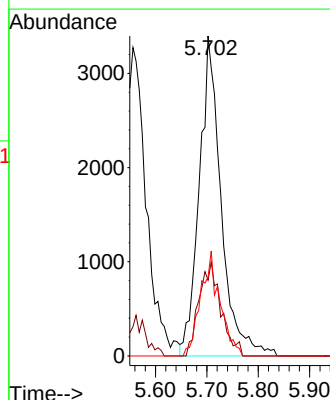
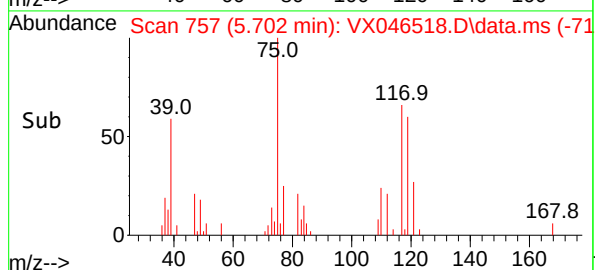
Delta R.T. -0.012 min

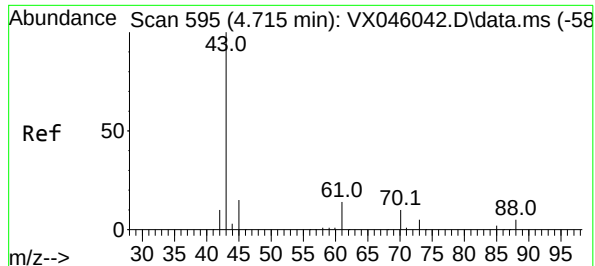
Lab File: VX046518.D

Acq: 06 Jun 2025 09:42



Tgt Ion:	75	Resp:	10048
Ion	Ratio	Lower	Upper
75	100		
110	29.2	16.3	48.9
77	29.0	24.3	36.5





#37

Ethyl Acetate

Concen: 4.716 ug/l

RT: 4.733 min Scan# 598

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 8760

Ion Ratio Lower Upper

43 100

61 5.6 10.3 15.5

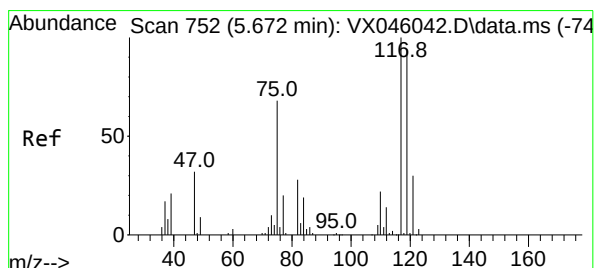
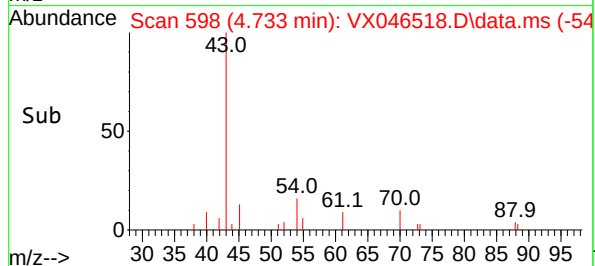
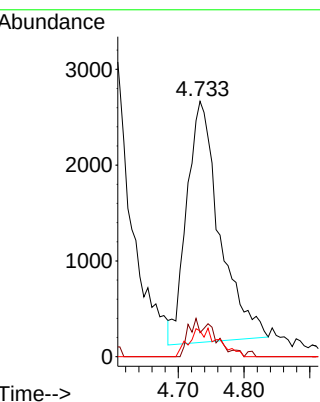
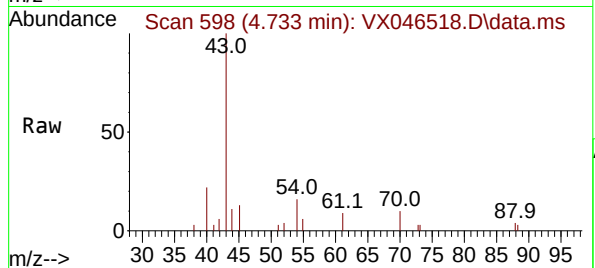
70 10.5 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 5.088 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

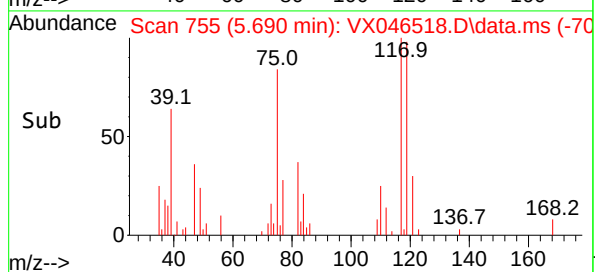
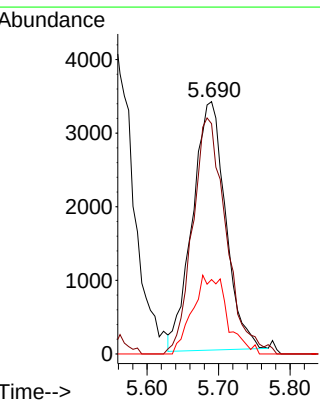
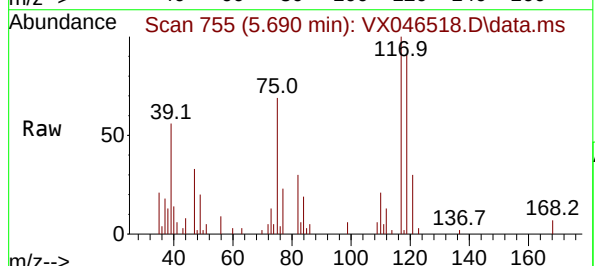
Tgt Ion:117 Resp: 10857

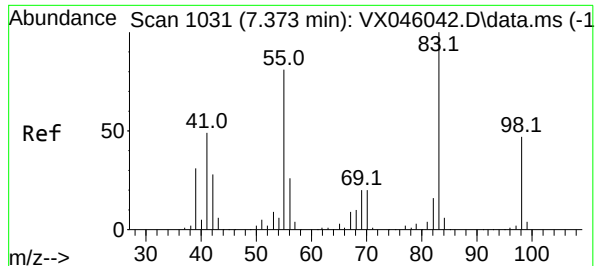
Ion Ratio Lower Upper

117 100

119 91.3 75.2 112.8

121 30.2 24.2 36.4





#39

Methylcyclohexane

Concen: 5.610 ug/l

RT: 7.385 min Scan# 1031

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

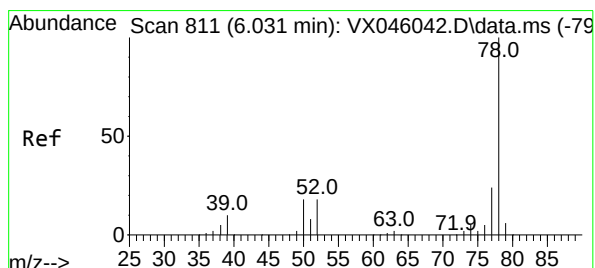
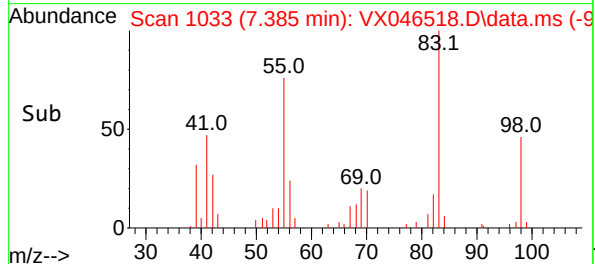
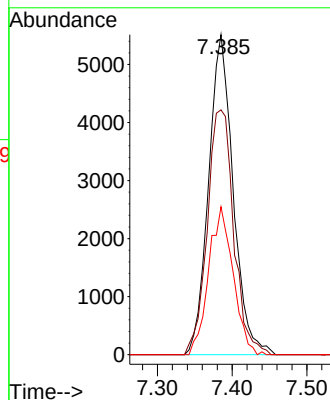
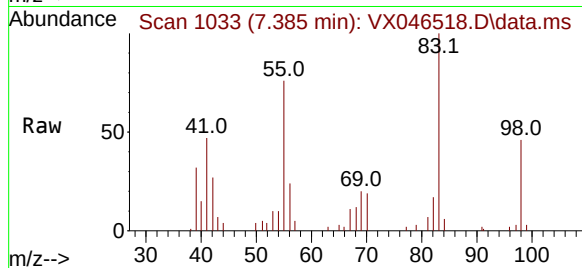
Tgt Ion:	83	Resp:	12614
Ion	Ratio	Lower	Upper
83	100		
55	76.5	64.7	97.1
98	46.2	37.4	56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 5.400 ug/l

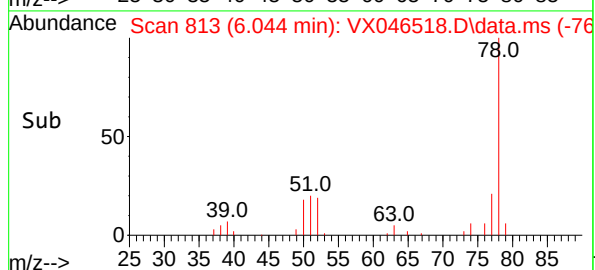
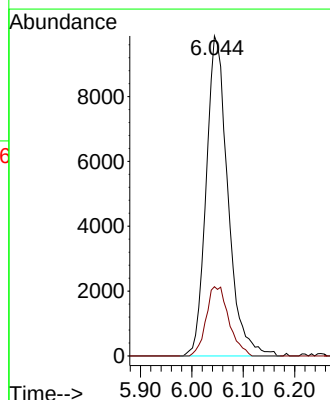
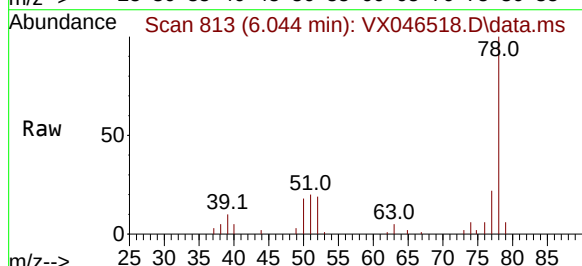
RT: 6.044 min Scan# 813

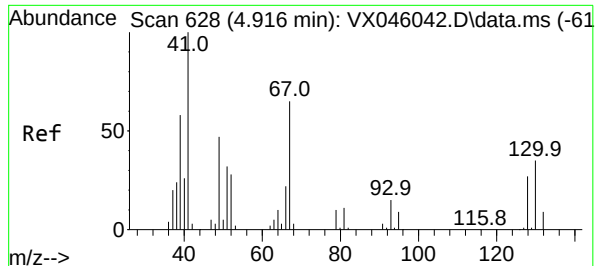
Delta R.T. -0.012 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

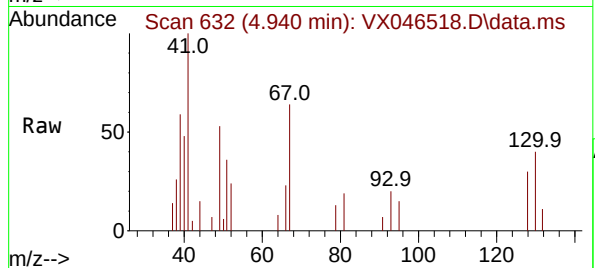
Tgt Ion:	78	Resp:	28961
Ion	Ratio	Lower	Upper
78	100		
77	21.7	19.0	28.4





#41
Methacrylonitrile
Concen: 4.868 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

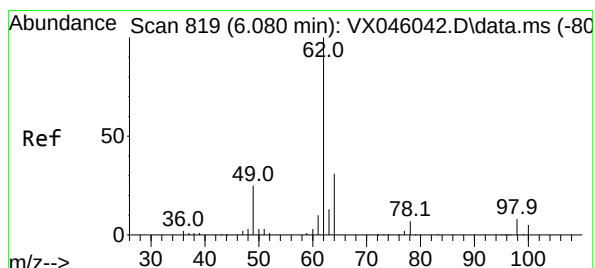
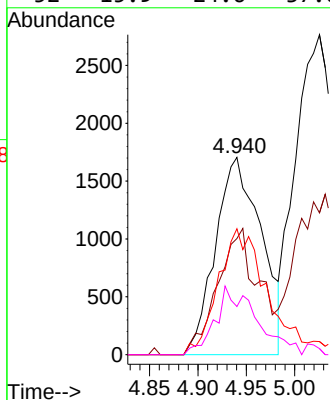
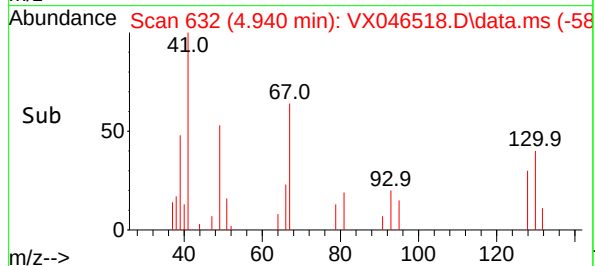
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 41 Resp: 562
Ion Ratio Lower Upper
41 100
39 55.9 47.2 70.8
67 69.4 50.7 76.1
52 15.9 24.6 37.0#

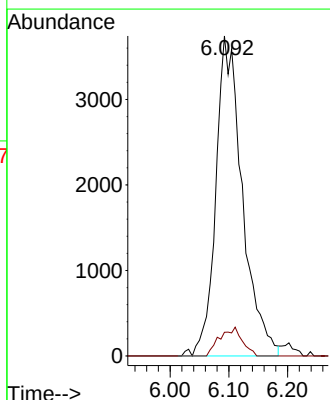
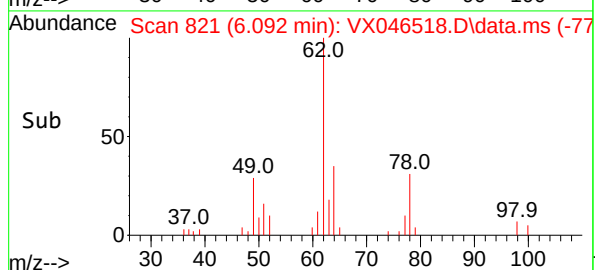
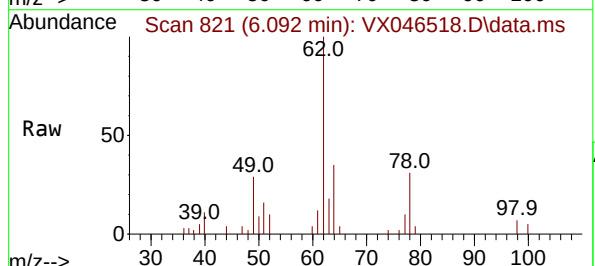
Manual Integrations
APPROVED

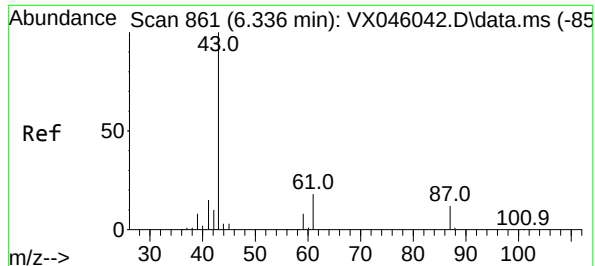
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 5.252 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 62 Resp: 11718
Ion Ratio Lower Upper
62 100
98 7.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 4.712 ug/l

RT: 6.349 min Scan# 863

Delta R.T. -0.006 min

Lab File: VX046518.D

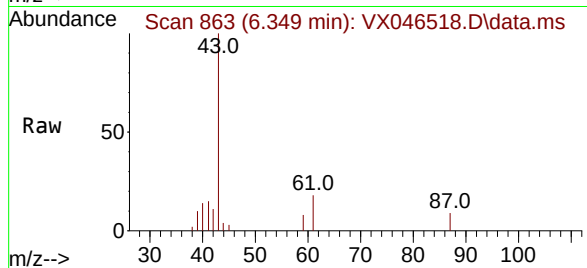
Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005



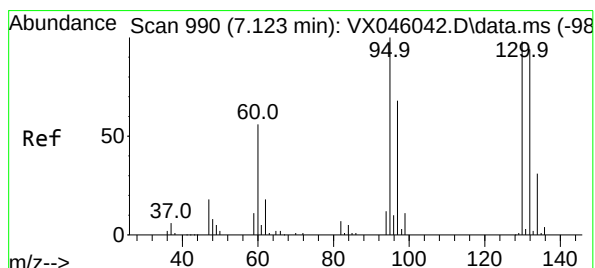
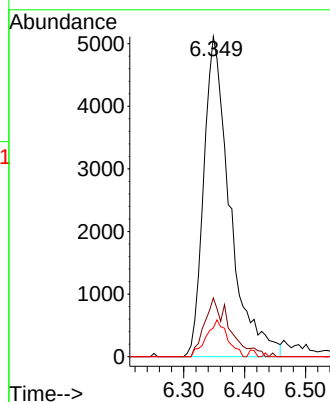
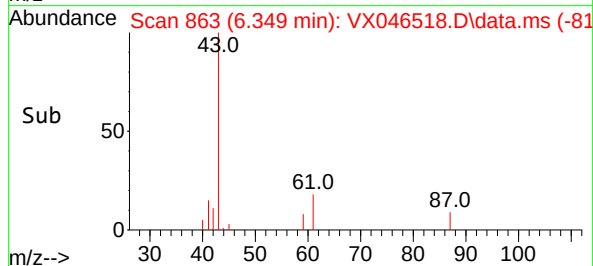
Tgt Ion: 43	Resp: 1527
Ion Ratio	Lower Upper
43	100
61	17.6 14.3 21.5
87	9.2 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 5.121 ug/l

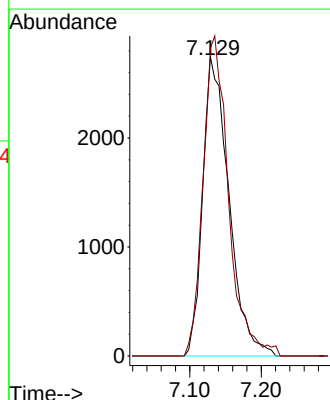
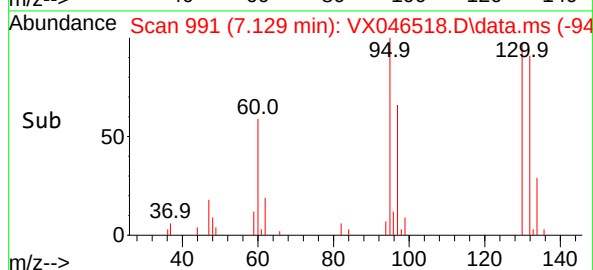
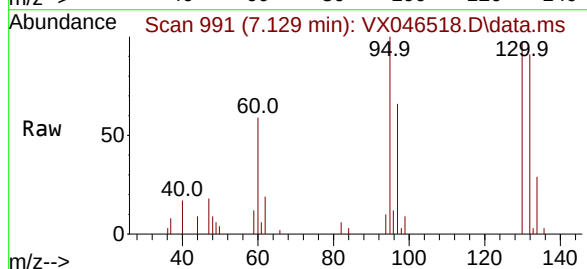
RT: 7.129 min Scan# 991

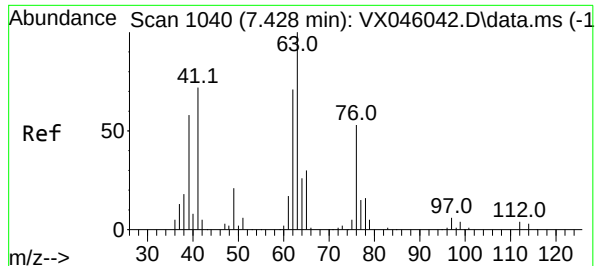
Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:130	Resp: 6978
Ion Ratio	Lower Upper
130	100
95	102.9 0.0 204.2





#45

1,2-Dichloropropane

Concen: 5.152 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 63 Resp: 713

Ion Ratio Lower Upper

63 100

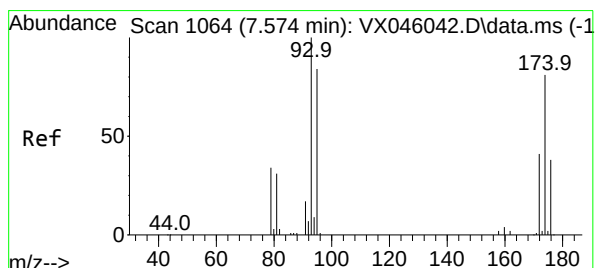
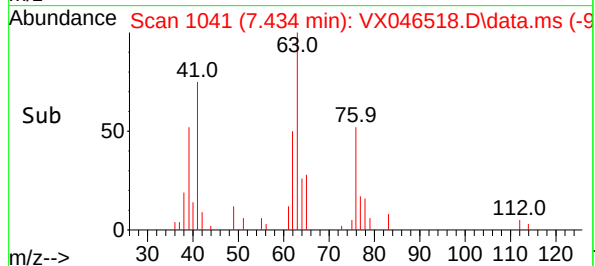
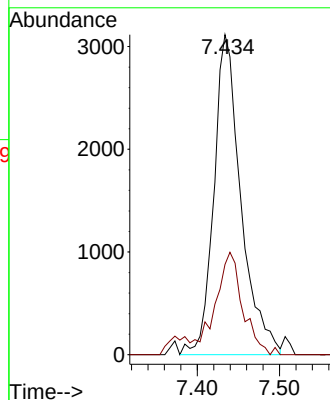
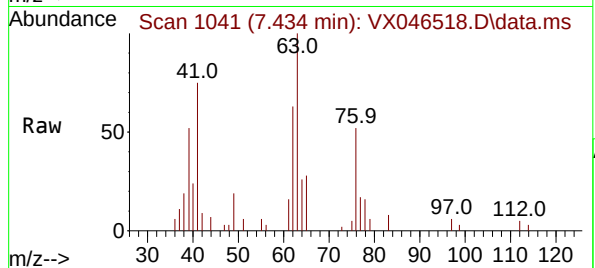
65 28.2 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 5.366 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

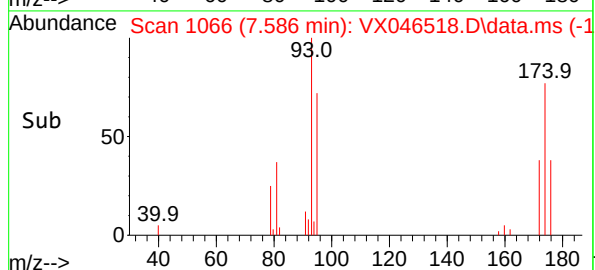
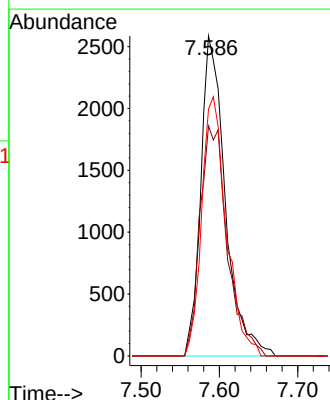
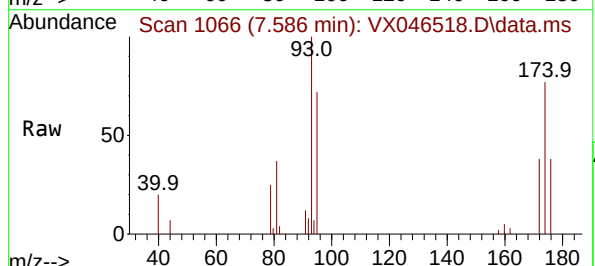
Tgt Ion: 93 Resp: 5588

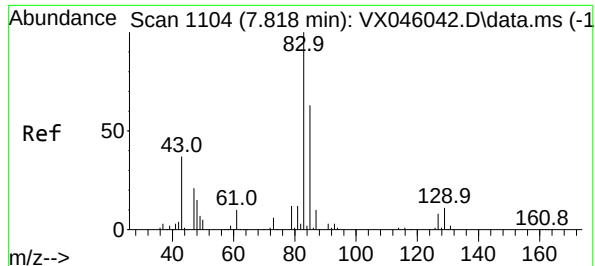
Ion Ratio Lower Upper

93 100

95 80.4 65.6 98.4

174 81.8 68.2 102.2





#47

Bromodichloromethane

Concen: 4.915 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

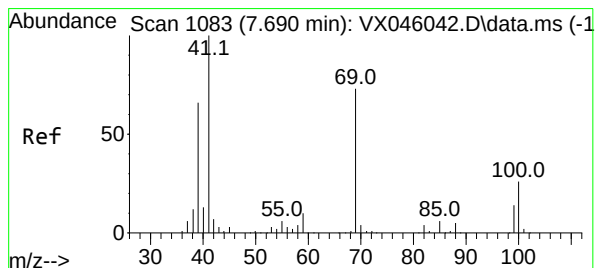
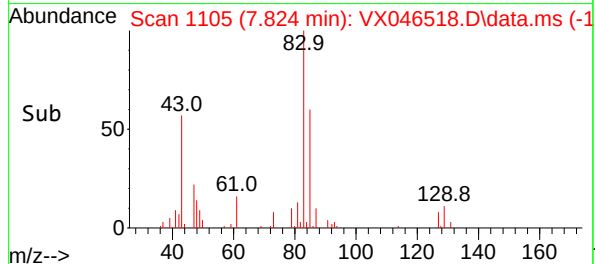
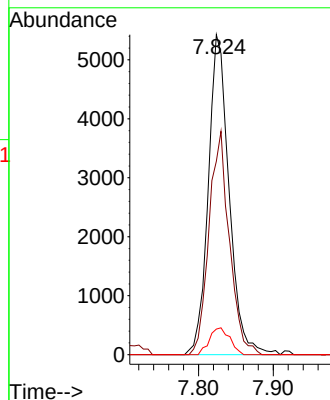
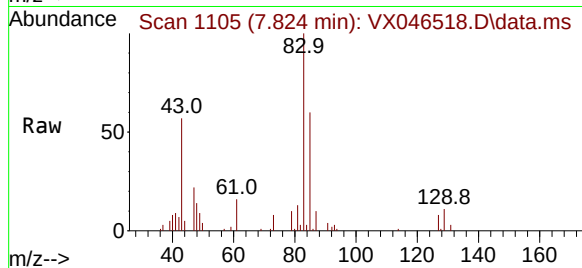
Tgt Ion:	83	Resp:	10524
Ion	Ratio	Lower	Upper
83	100		
85	60.4	50.5	75.7
127	8.0	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 4.595 ug/l

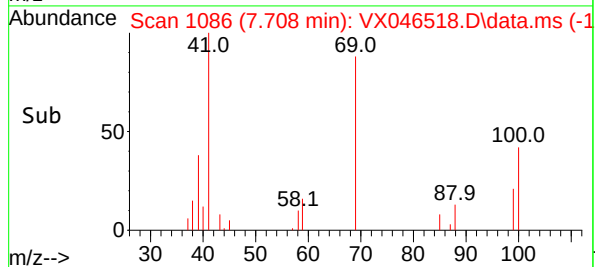
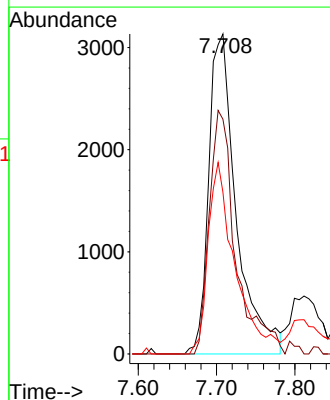
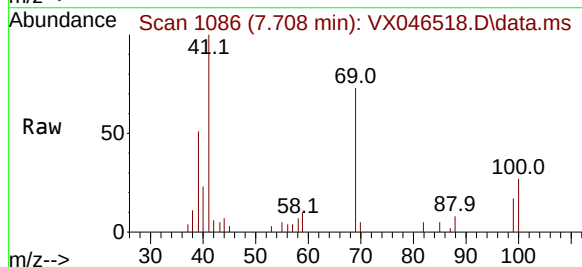
RT: 7.708 min Scan# 1086

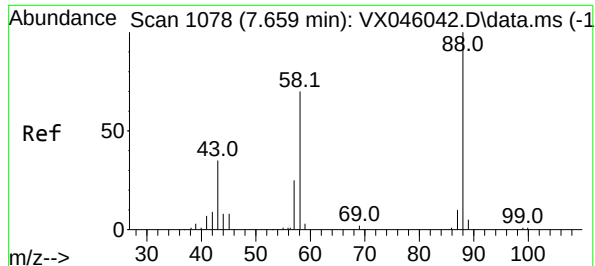
Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	41	Resp:	7663
Ion	Ratio	Lower	Upper
41	100		
69	73.0	58.5	87.7
39	58.9	51.7	77.5





#49

1,4-Dioxane

Concen: 99.585 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

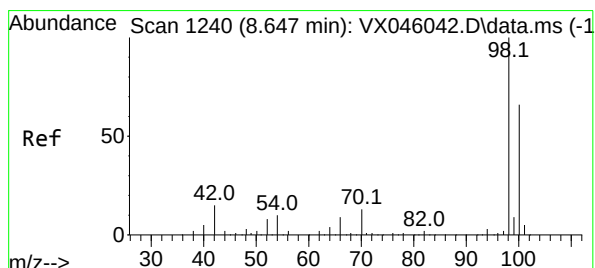
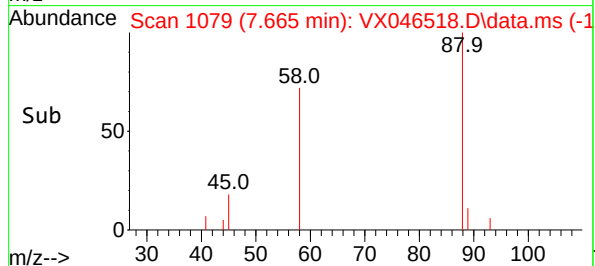
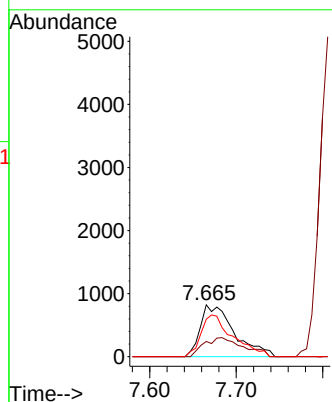
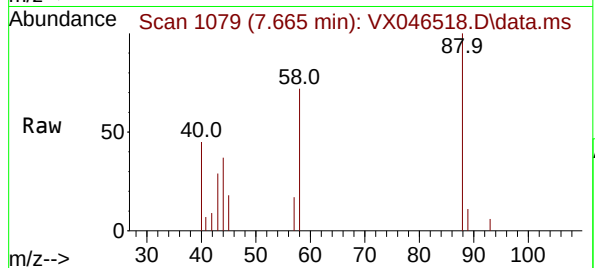
Tgt Ion:	88	Resp:	222
Ion	Ratio	Lower	Upper
88	100		
43	42.8	33.4	50.2
58	75.7	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 5.618 ug/l

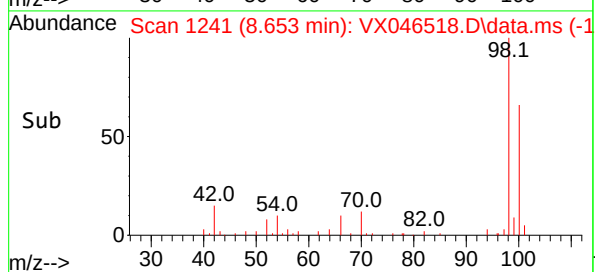
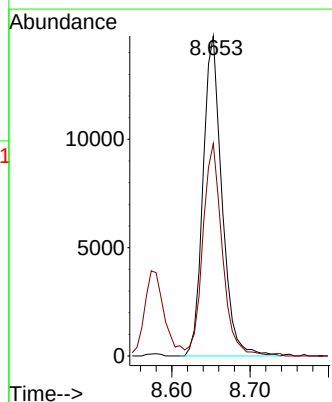
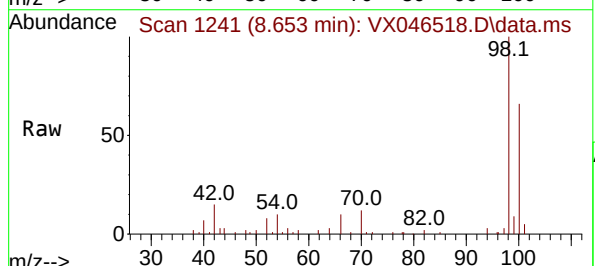
RT: 8.653 min Scan# 1241

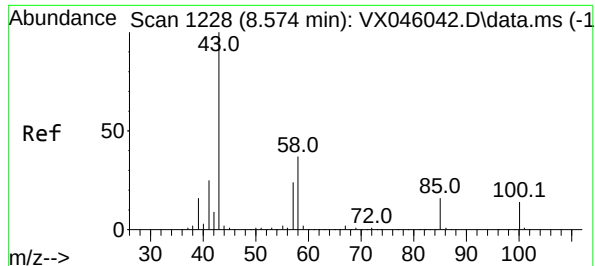
Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	98	Resp:	24704
Ion	Ratio	Lower	Upper
98	100		
100	66.9	53.5	80.3





#51

4-Methyl-2-Pentanone

Concen: 24.133 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 49709

Ion Ratio Lower Upper

43 100

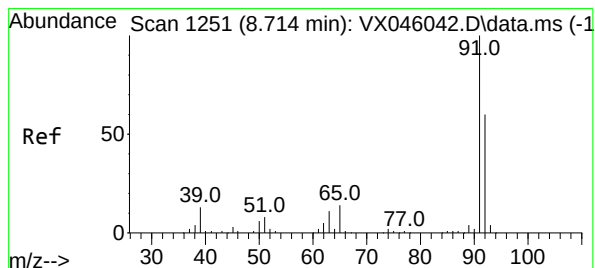
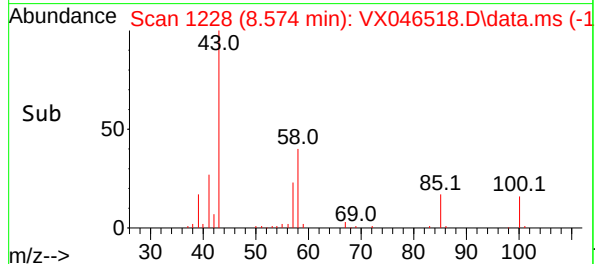
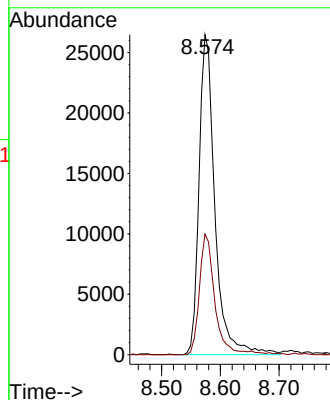
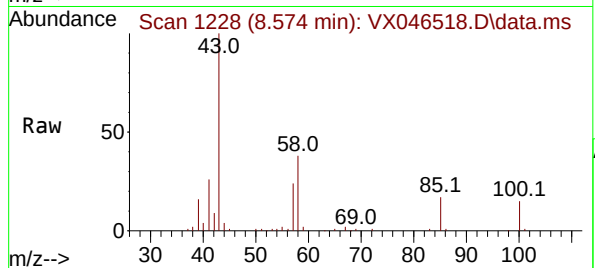
58 37.0 28.9 43.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#52

Toluene

Concen: 5.394 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX046518.D

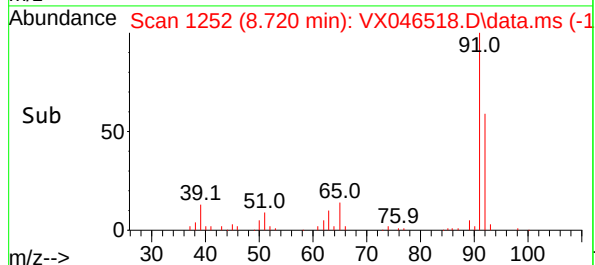
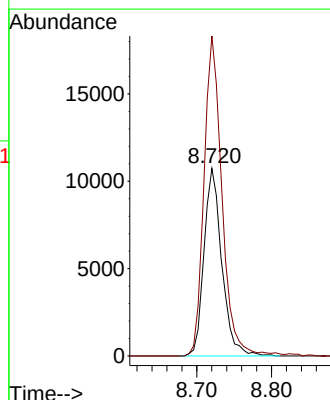
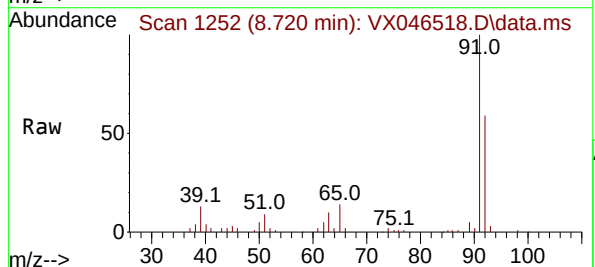
Acq: 06 Jun 2025 09:42

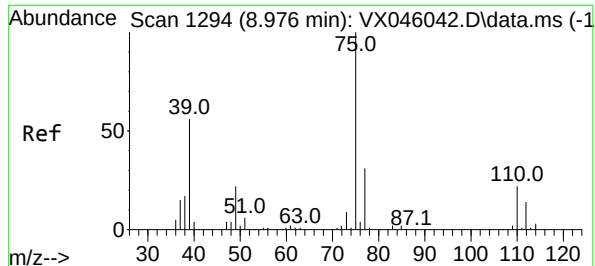
Tgt Ion: 92 Resp: 17773

Ion Ratio Lower Upper

92 100

91 172.2 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 4.429 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 75 Resp: 850

Ion Ratio Lower Upper

75 100

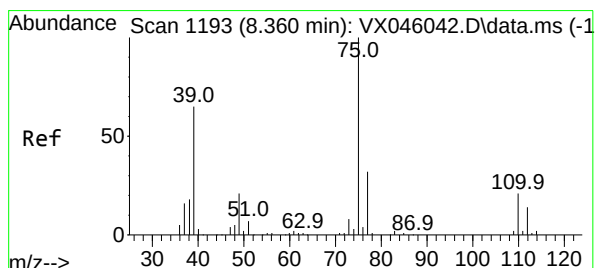
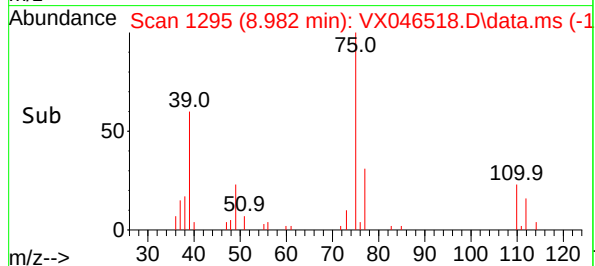
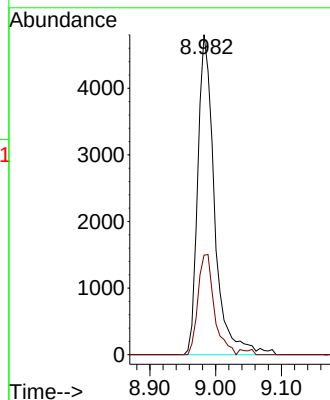
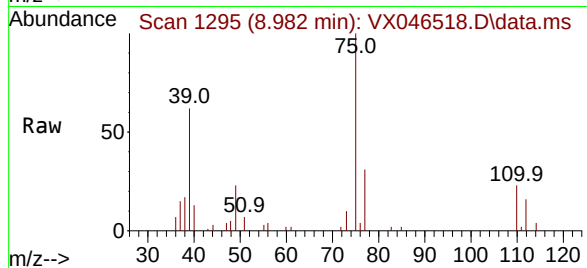
77 31.1 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 4.817 ug/l

RT: 8.373 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

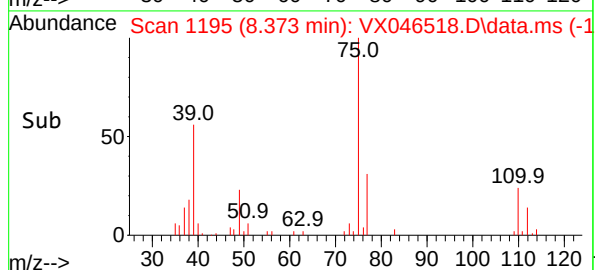
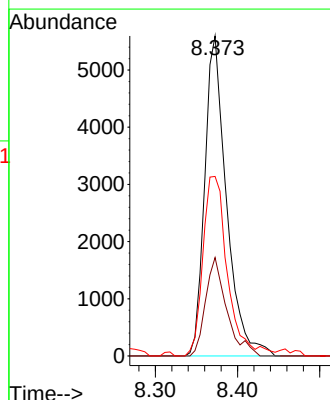
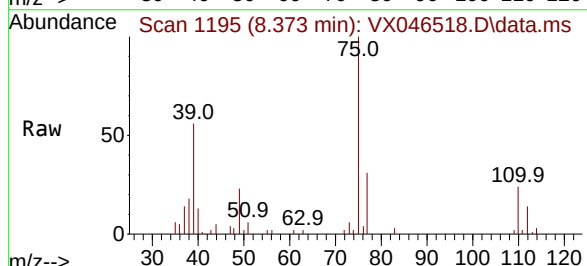
Tgt Ion: 75 Resp: 10282

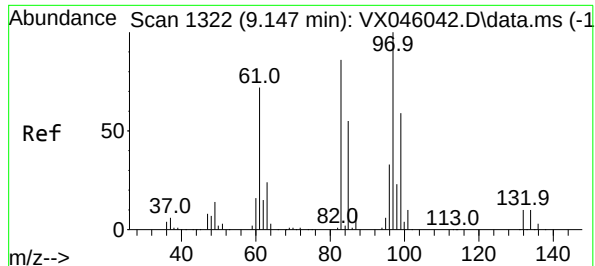
Ion Ratio Lower Upper

75 100

77 30.8 25.4 38.0

39 56.1 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 5.136 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

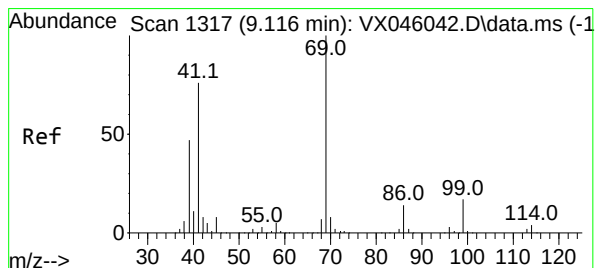
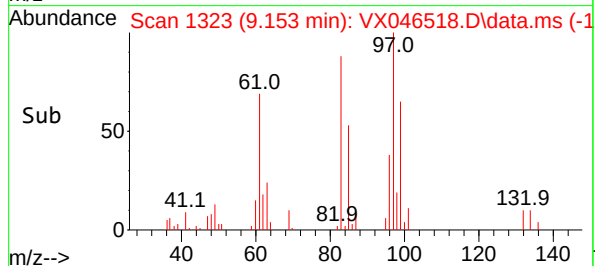
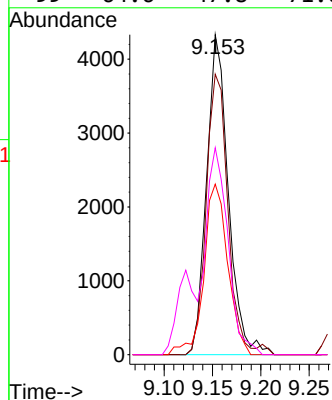
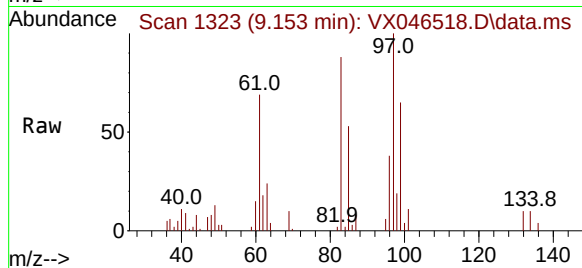
Tgt Ion:	97	Resp:	6794
Ion	Ratio	Lower	Upper
97	100		
83	87.7	69.0	103.6
85	53.3	44.3	66.5
99	64.6	47.8	71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 4.777 ug/l

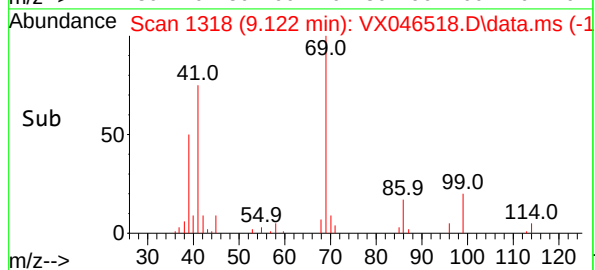
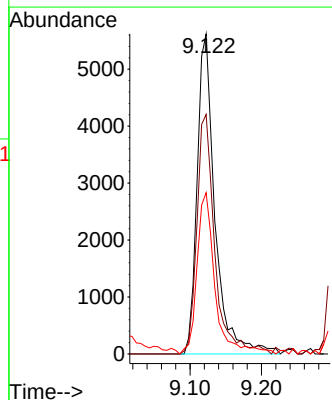
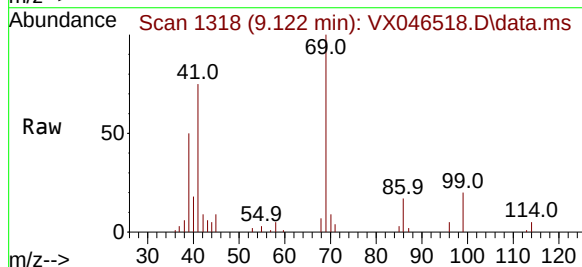
RT: 9.122 min Scan# 1318

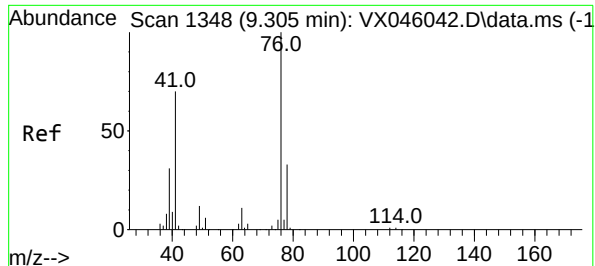
Delta R.T. 0.006 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Tgt Ion:	69	Resp:	9723
Ion	Ratio	Lower	Upper
69	100		
41	73.6	60.8	91.2
39	50.6	39.0	58.6





#57

1,3-Dichloropropane

Concen: 5.148 ug/l

RT: 9.311 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 76 Resp: 1203

Ion Ratio Lower Upper

76 100

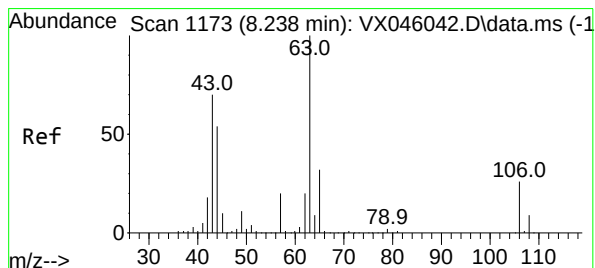
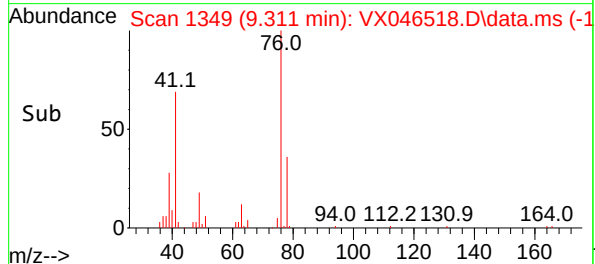
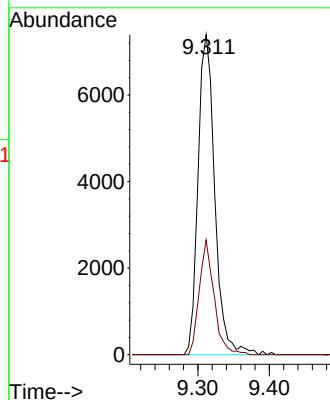
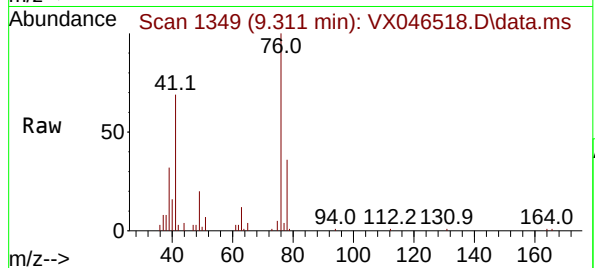
78 31.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 24.645 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046518.D

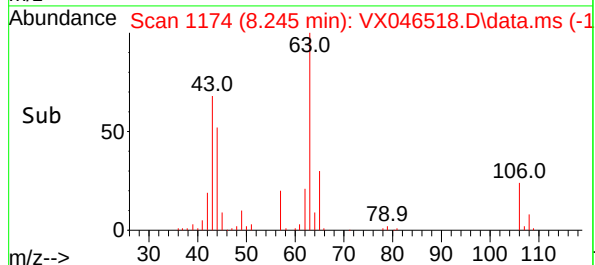
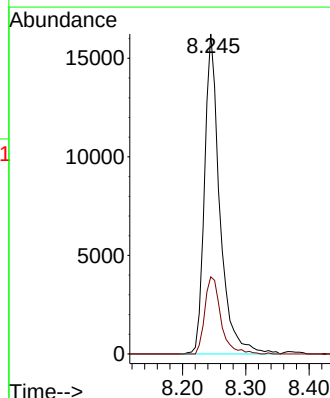
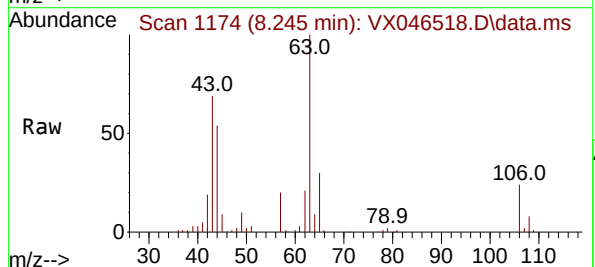
Acq: 06 Jun 2025 09:42

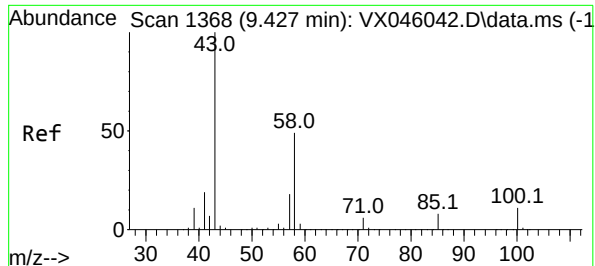
Tgt Ion: 63 Resp: 27324

Ion Ratio Lower Upper

63 100

106 25.2 21.5 32.3





#59

2-Hexanone

Concen: 23.102 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 43 Resp: 34128

Ion Ratio Lower Upper

43 100

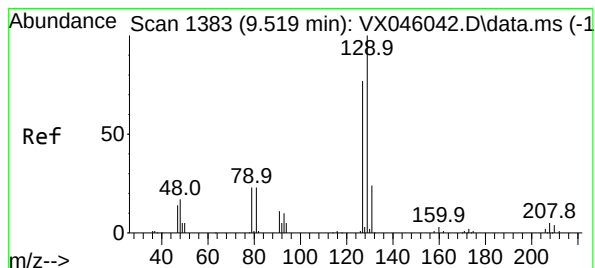
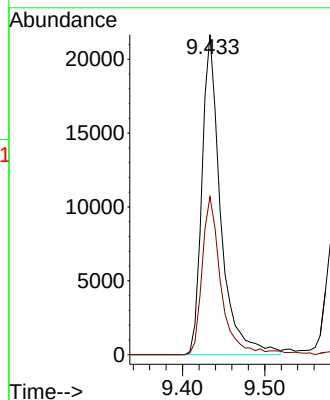
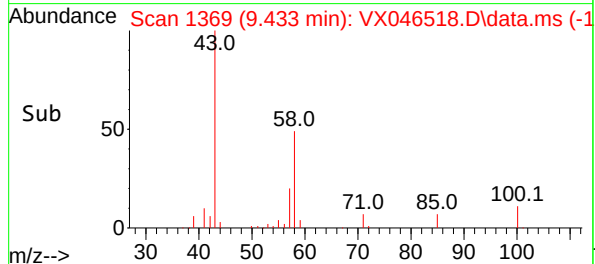
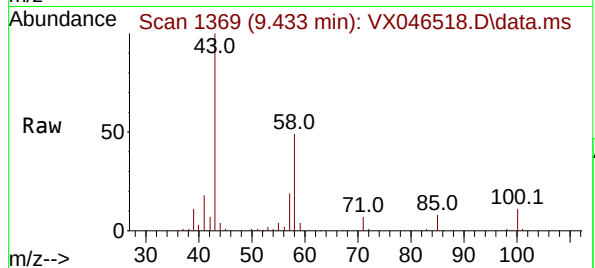
58 50.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 5.018 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046518.D

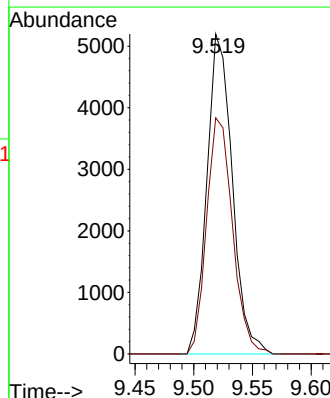
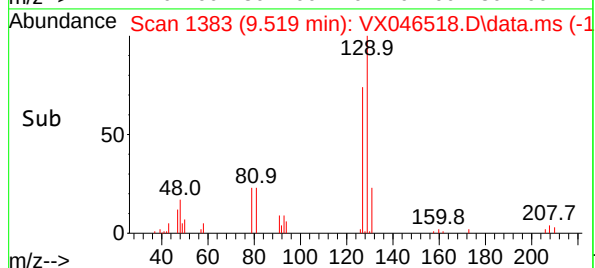
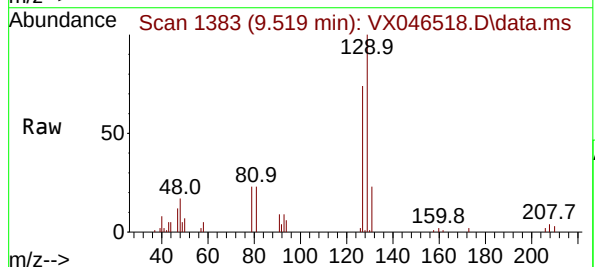
Acq: 06 Jun 2025 09:42

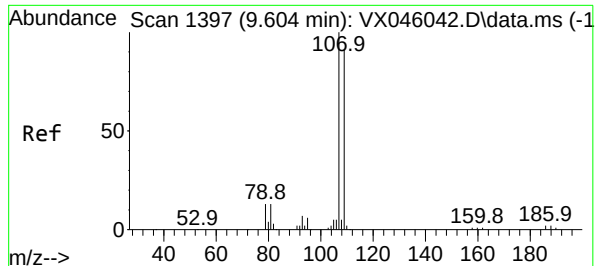
Tgt Ion:129 Resp: 7808

Ion Ratio Lower Upper

129 100

127 75.4 39.3 117.8





#61

1,2-Dibromoethane

Concen: 4.833 ug/l

RT: 9.610 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:107 Resp: 666

Ion Ratio Lower Upper

107 100

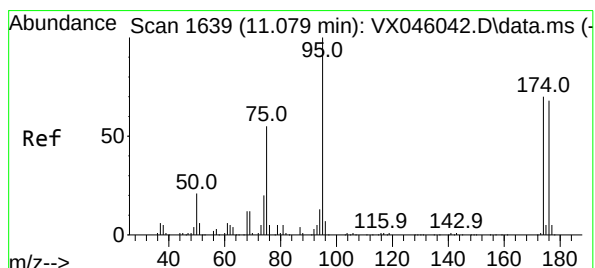
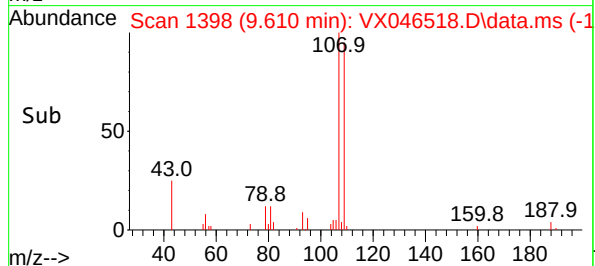
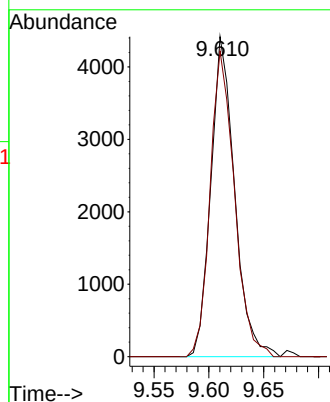
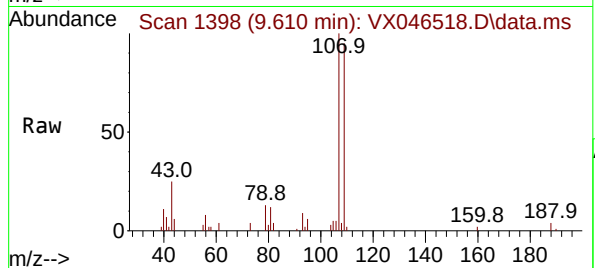
109 97.5 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 5.620 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

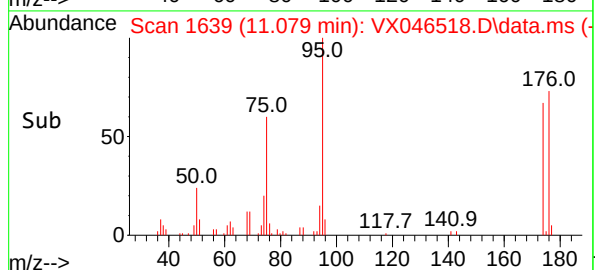
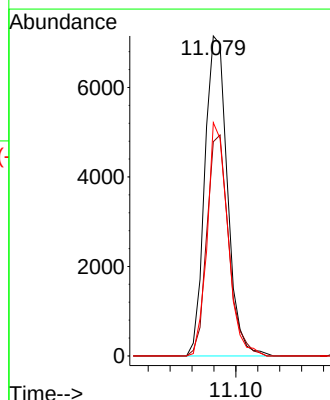
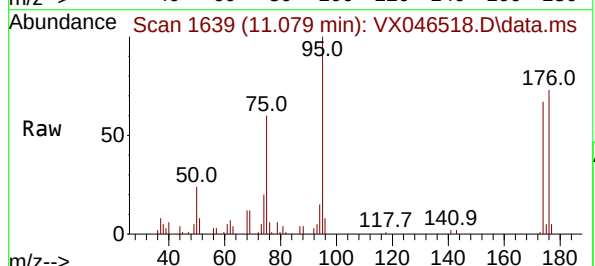
Tgt Ion: 95 Resp: 10224

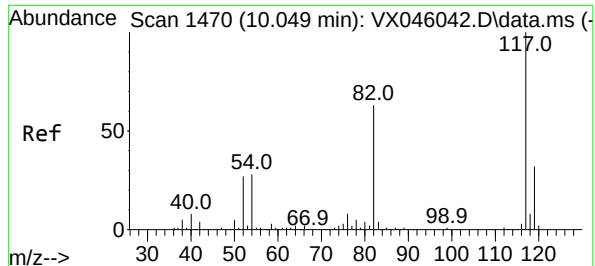
Ion Ratio Lower Upper

95 100

174 66.7 0.0 135.8

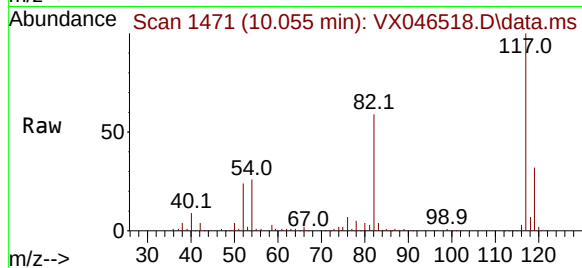
176 66.3 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

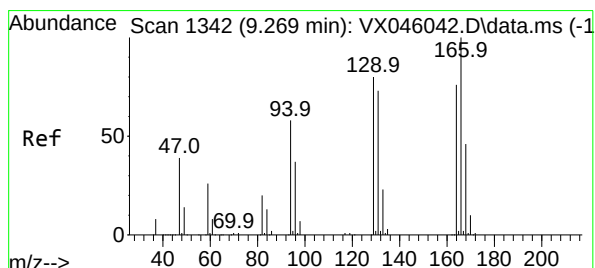
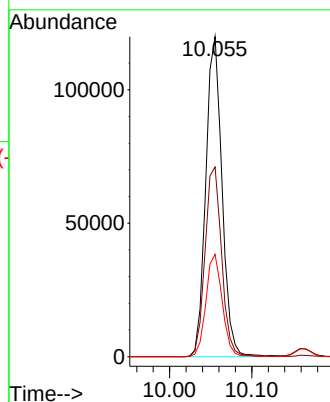
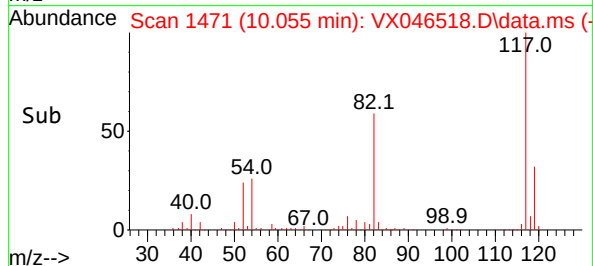
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:117 Resp: 164490
Ion Ratio Lower Upper
117 100
82 59.3 50.6 76.0
119 32.0 25.8 38.6

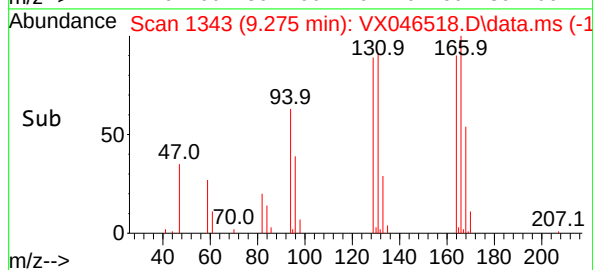
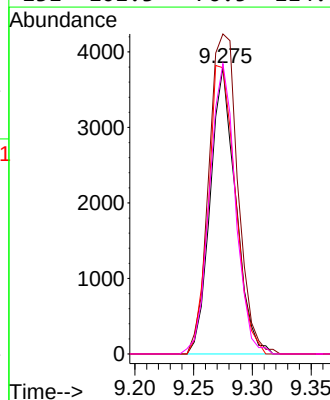
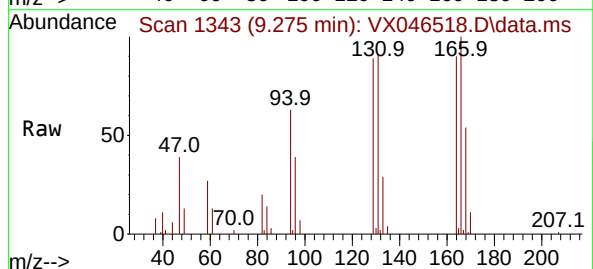
Manual Integrations
APPROVED

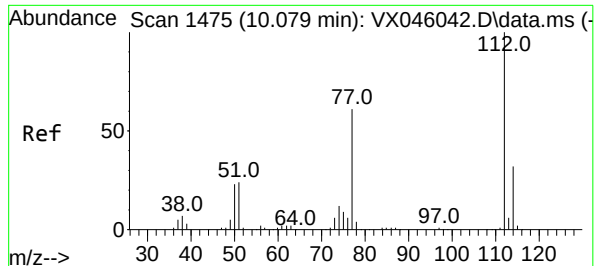
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 5.186 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:164 Resp: 5704
Ion Ratio Lower Upper
164 100
166 111.7 105.0 157.6
129 99.9 83.5 125.3
131 101.3 76.5 114.7





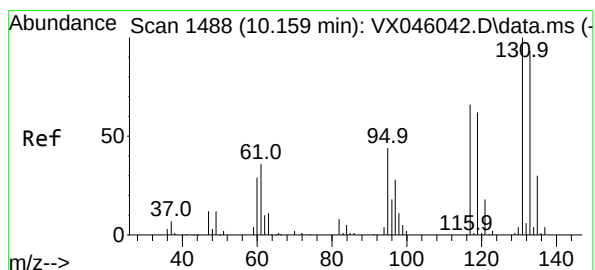
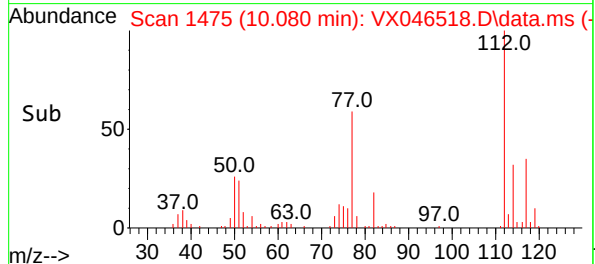
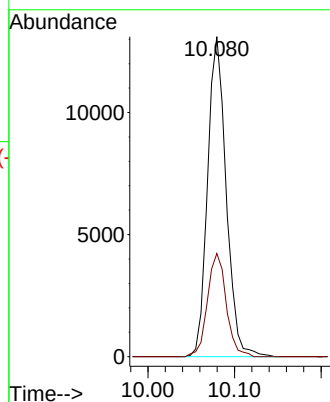
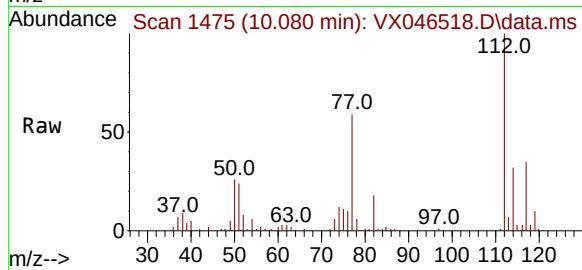
#65
Chlorobenzene
Concen: 5.048 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:112 Resp: 19529
Ion Ratio Lower Upper
112 100
114 32.3 25.4 38.2

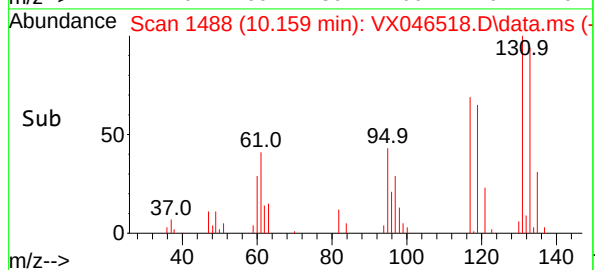
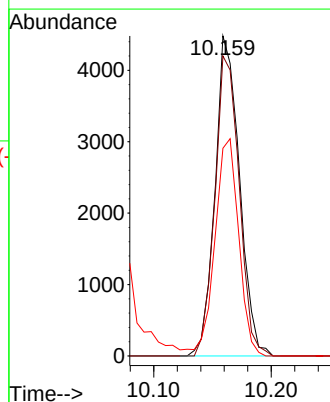
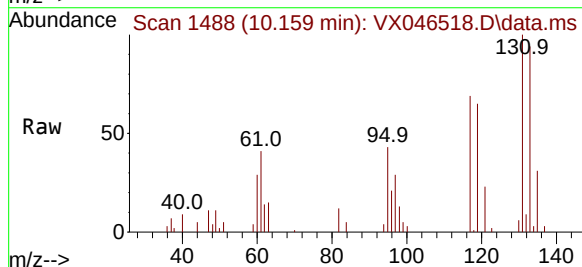
Manual Integrations
APPROVED

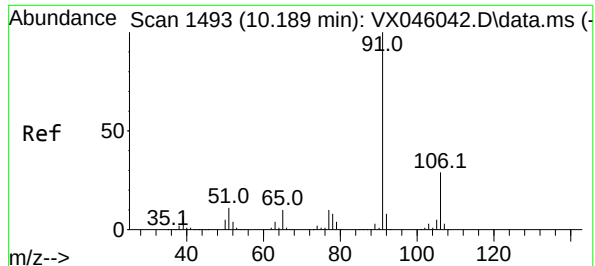
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 4.963 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:131 Resp: 6488
Ion Ratio Lower Upper
131 100
133 93.0 47.3 141.9
119 65.5 31.6 95.0





#67

Ethyl Benzene

Concen: 5.098 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 34429

Ion Ratio Lower Upper

91 100

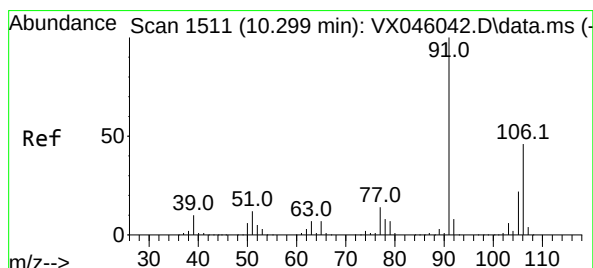
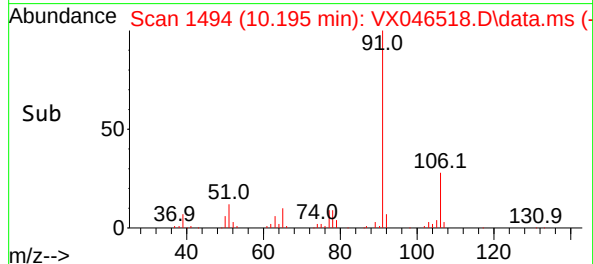
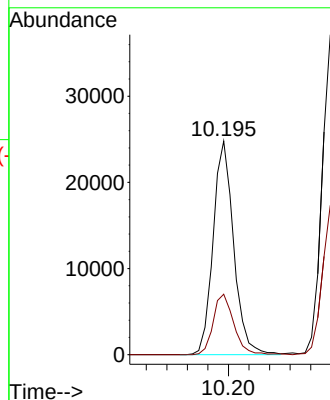
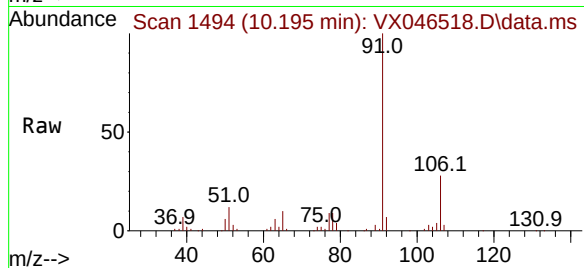
106 28.3 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 10.146 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046518.D

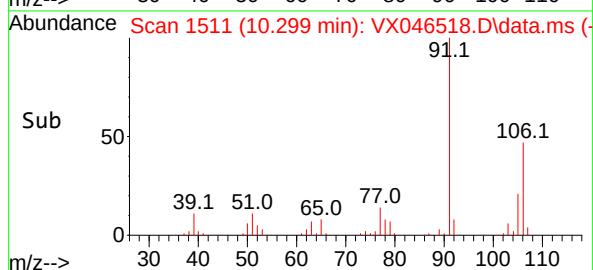
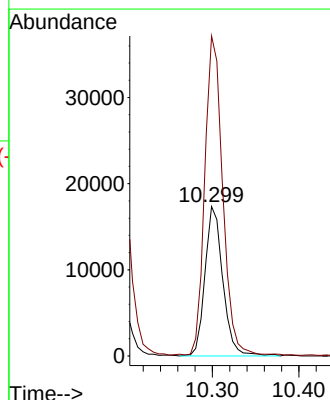
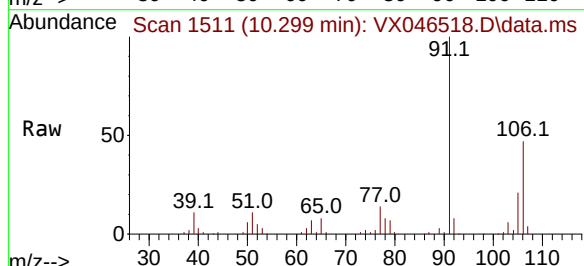
Acq: 06 Jun 2025 09:42

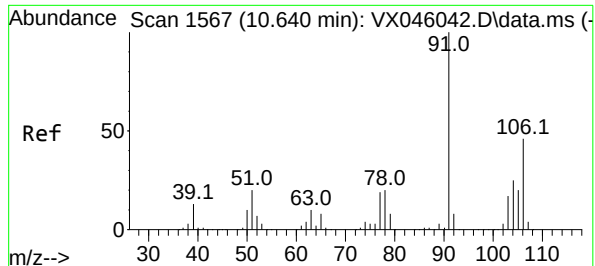
Tgt Ion:106 Resp: 24857

Ion Ratio Lower Upper

106 100

91 215.2 171.2 256.8





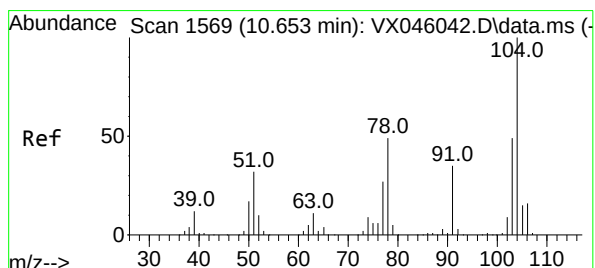
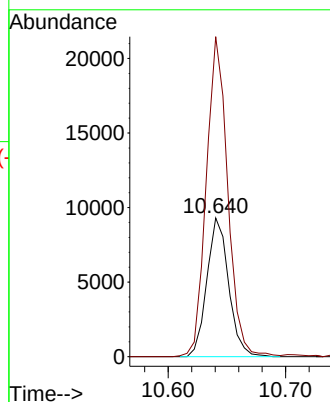
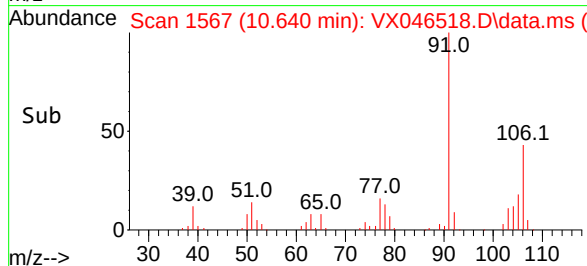
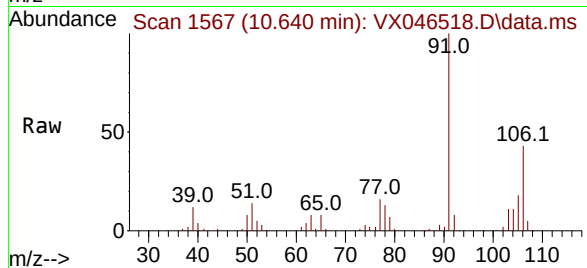
#69
o-Xylene
Concen: 5.054 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:106 Resp: 11970
Ion Ratio Lower Upper
106 100
91 226.9 112.7 338.1

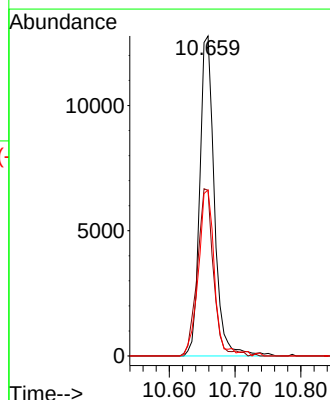
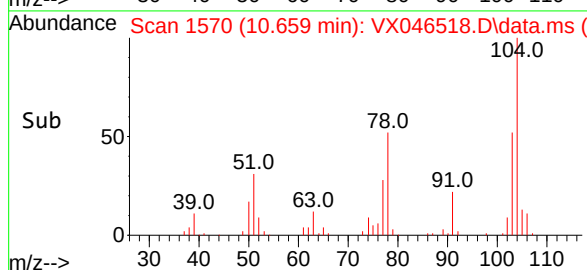
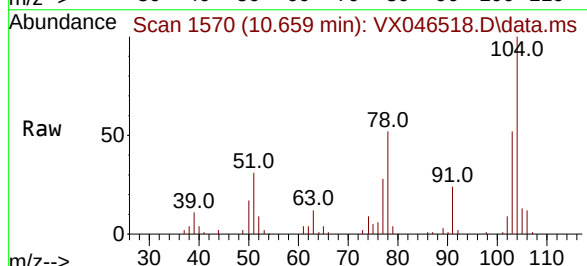
Manual Integrations
APPROVED

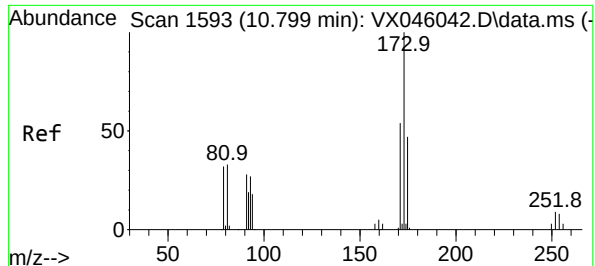
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 4.888 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

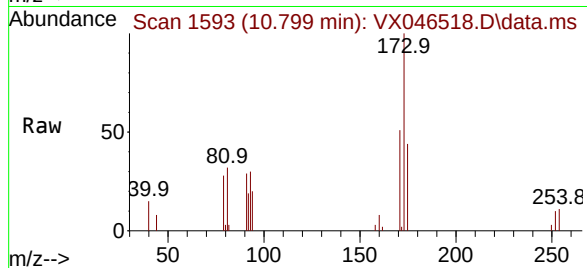
Tgt Ion:104 Resp: 19826
Ion Ratio Lower Upper
104 100
78 57.5 45.7 68.5
103 56.7 43.7 65.5





#71
Bromoform
Concen: 4.432 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

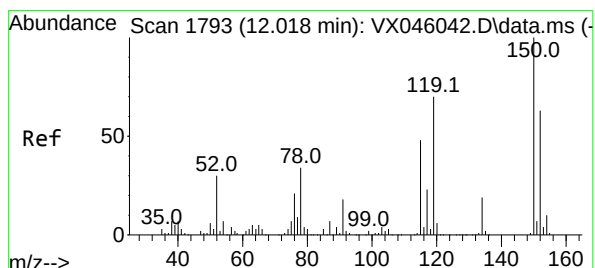
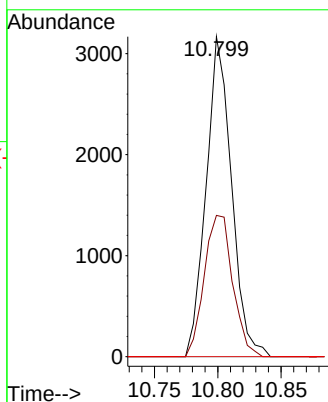
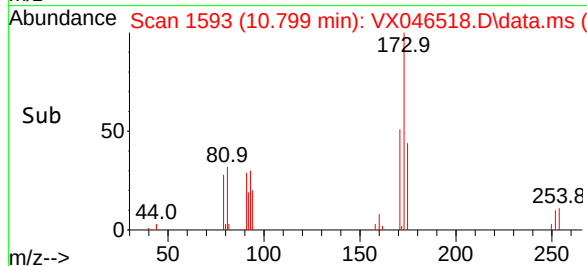
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:173 Resp: 4418
Ion Ratio Lower Upper
173 100
175 49.5 23.4 70.0
254 0.0 0.0 0.0

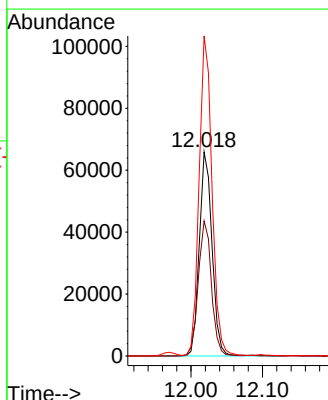
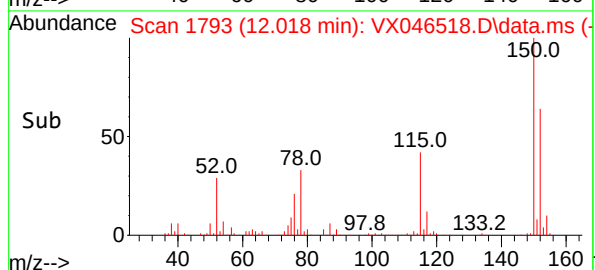
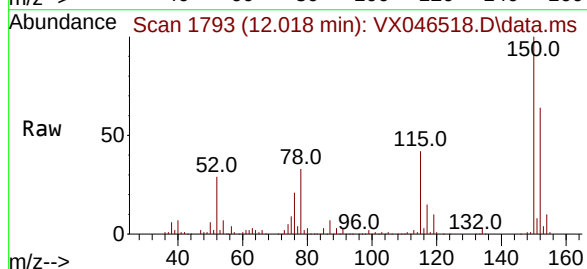
Manual Integrations
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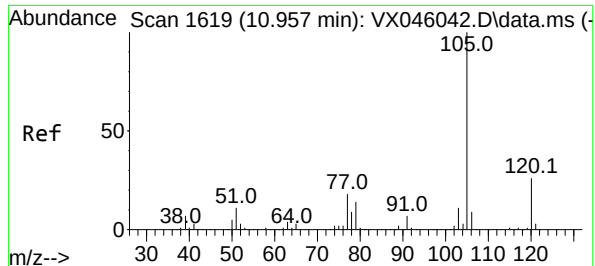
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:152 Resp: 81515
Ion Ratio Lower Upper
152 100
115 68.3 46.9 140.7
150 157.5 0.0 351.0





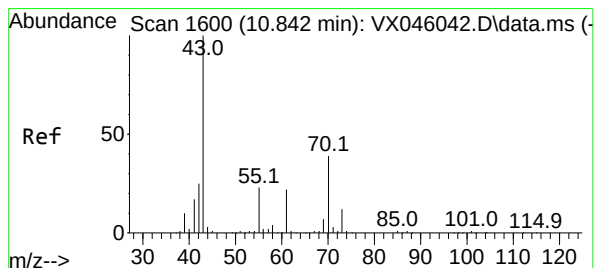
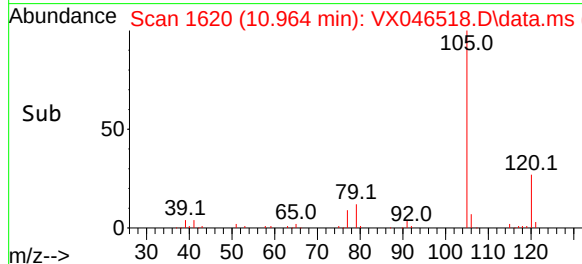
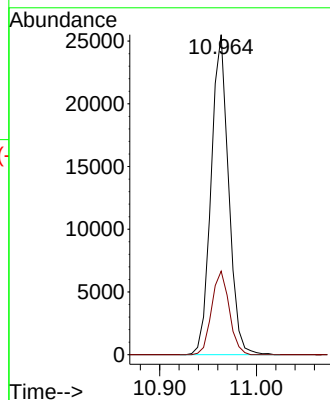
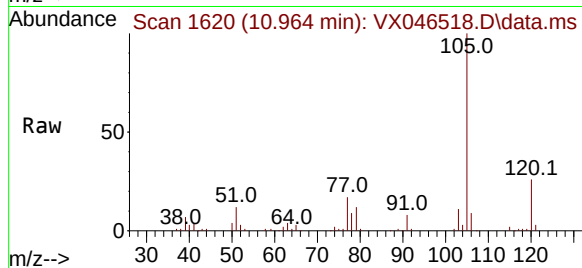
#73
Isopropylbenzene
Concen: 5.007 ug/l
RT: 10.964 min Scan# 1601
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

Tgt Ion:105 Resp: 3208
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4

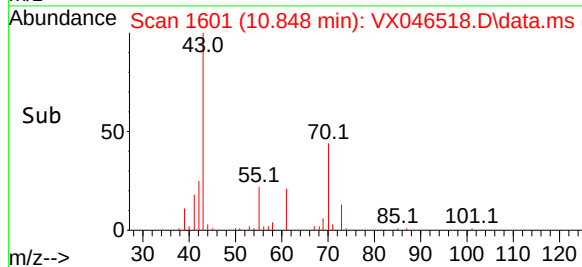
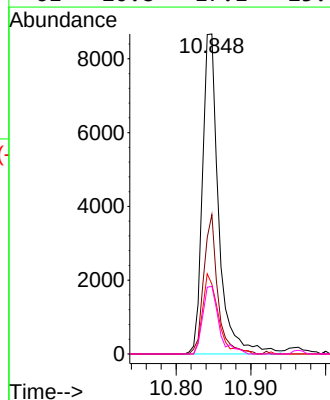
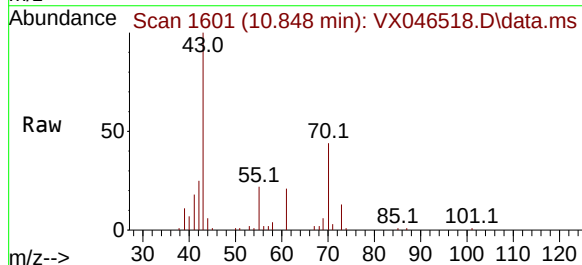
Manual Integrations
APPROVED

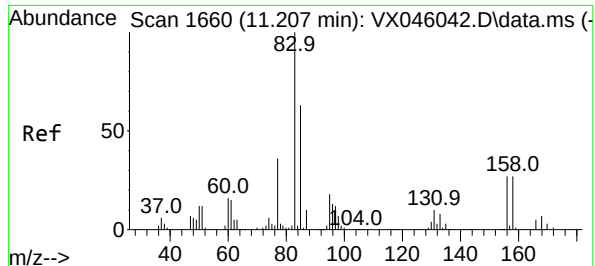
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 4.658 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

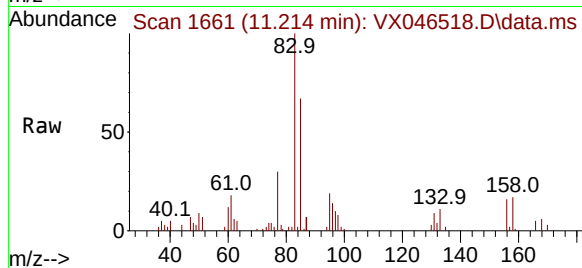
Tgt Ion: 43 Resp: 13145
Ion Ratio Lower Upper
43 100
70 37.3 30.9 46.3
55 23.9 18.7 28.1
61 20.8 17.1 25.7





#75
1,1,2-Tetrachloroethane
Concen: 5.144 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

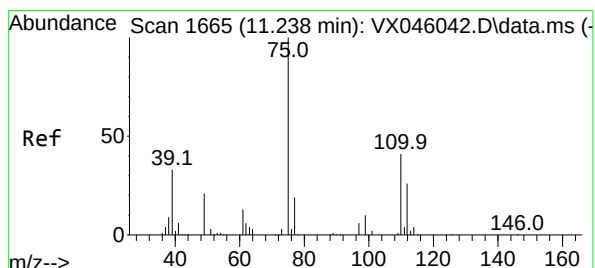
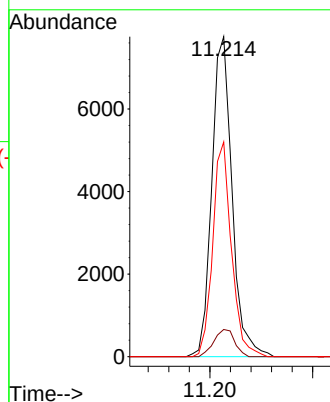
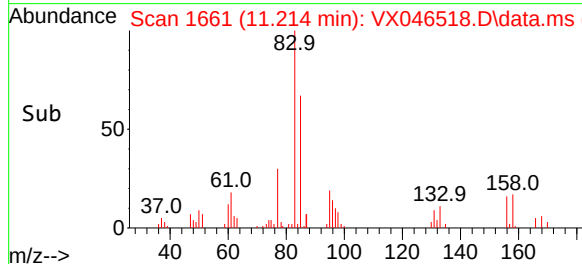
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 83 Resp: 1055
Ion Ratio Lower Upper
83 100
131 8.8 5.0 14.9
85 62.2 31.9 95.7

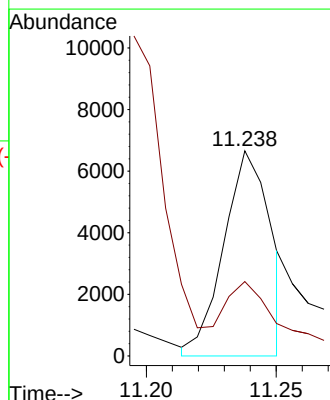
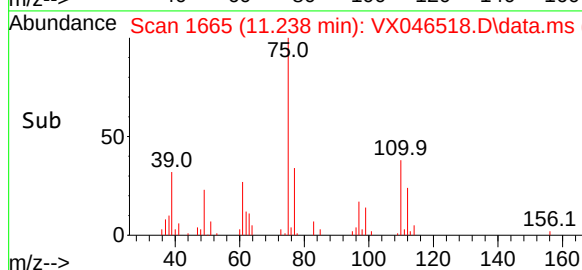
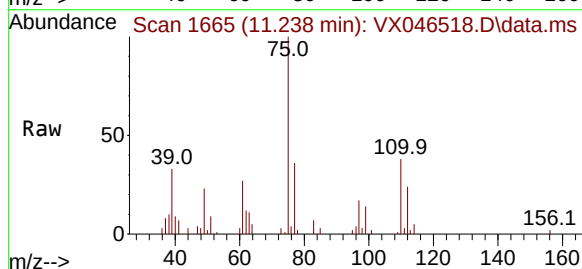
Manual Integrations
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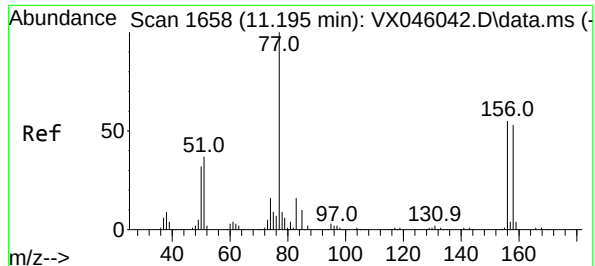
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 4.746 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

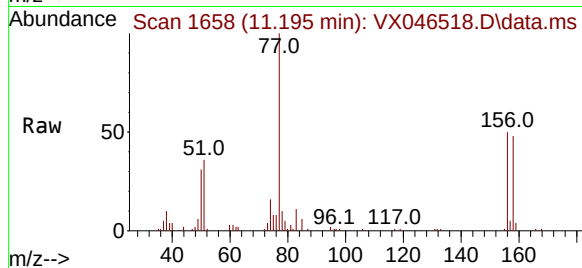
Tgt Ion: 75 Resp: 8330
Ion Ratio Lower Upper
75 100
77 42.3 20.5 61.5





#77
Bromobenzene
Concen: 4.953 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

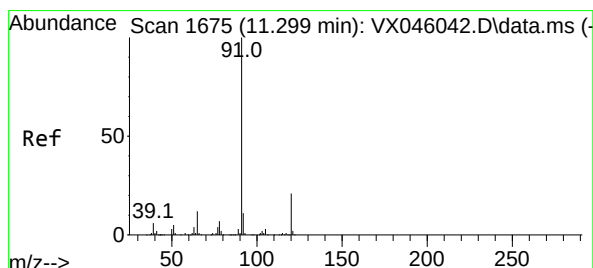
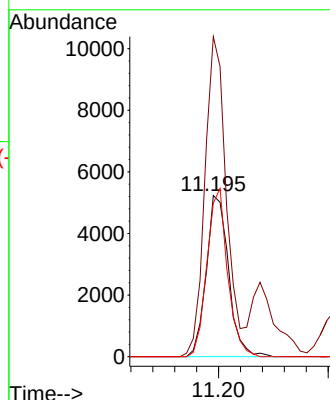
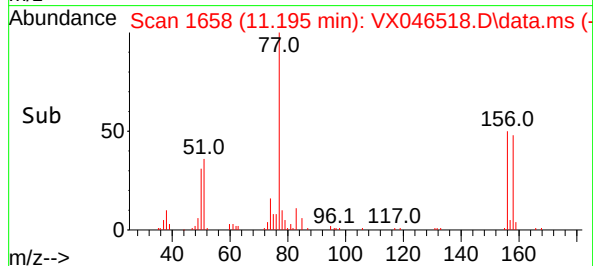
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 156 Resp: 736
Ion Ratio Lower Upper
156 100
77 189.0 92.8 278.3
158 96.7 48.8 146.3

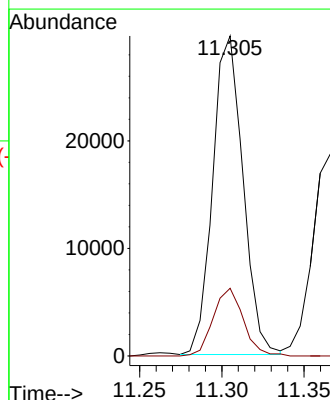
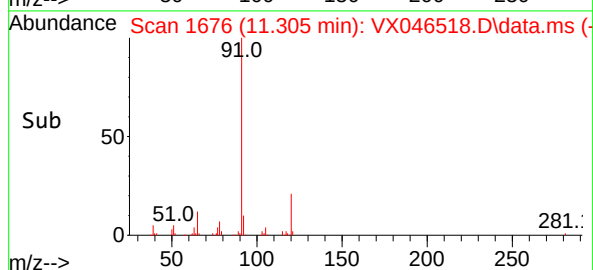
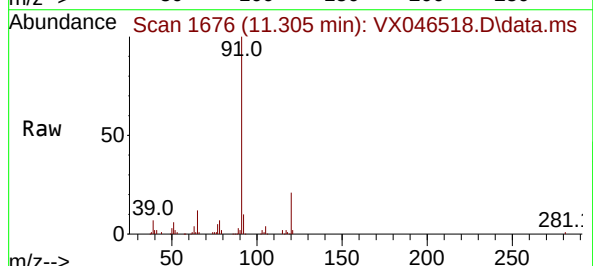
Manual Integrations
APPROVED

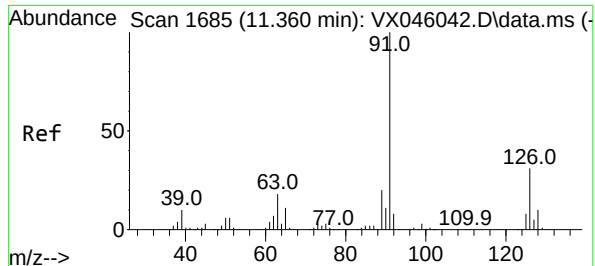
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 4.896 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion: 91 Resp: 37974
Ion Ratio Lower Upper
91 100
120 21.1 10.8 32.4





#79

2-Chlorotoluene

Concen: 5.028 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion: 91 Resp: 23514

Ion Ratio Lower Upper

91 100

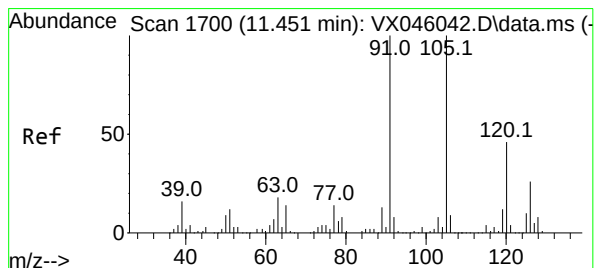
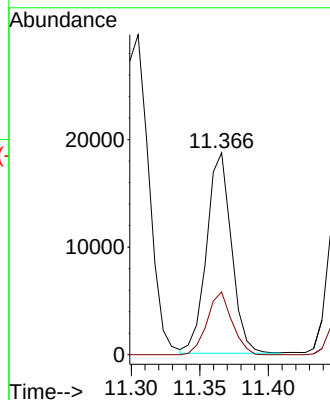
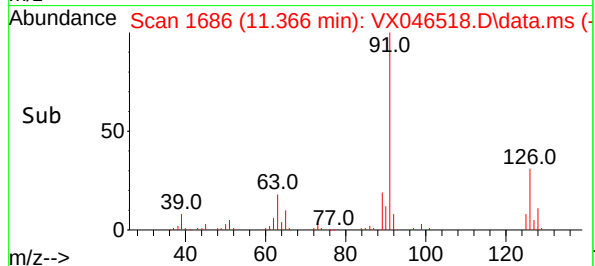
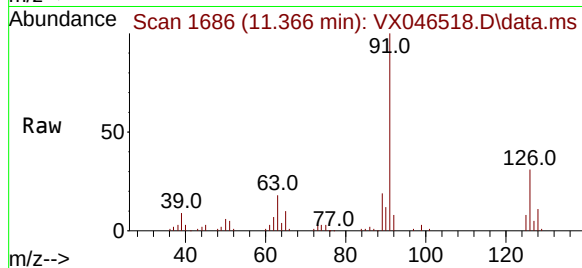
126 31.2 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 5.083 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046518.D

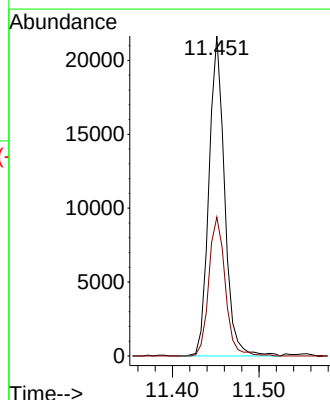
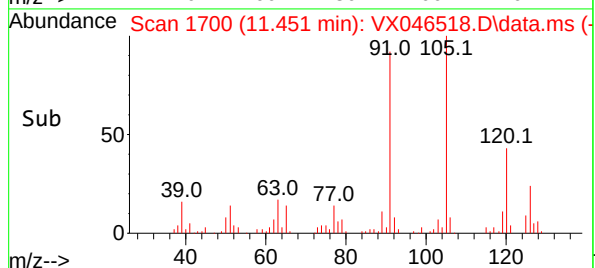
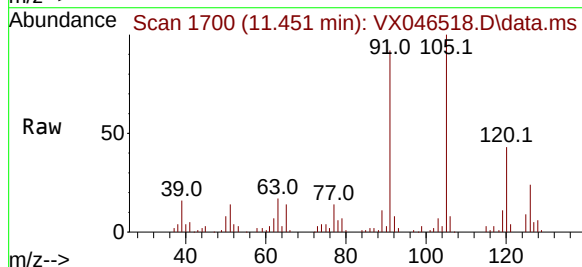
Acq: 06 Jun 2025 09:42

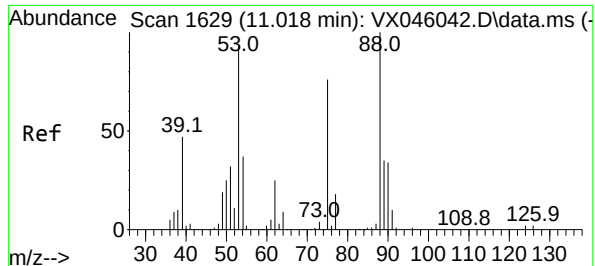
Tgt Ion:105 Resp: 27140

Ion Ratio Lower Upper

105 100

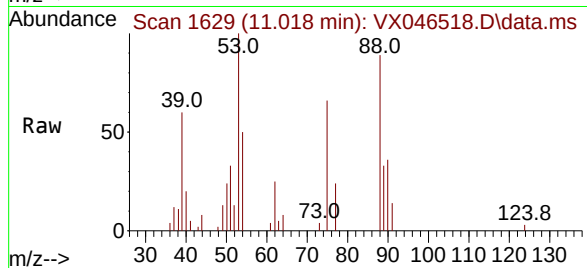
120 45.6 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 3.736 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

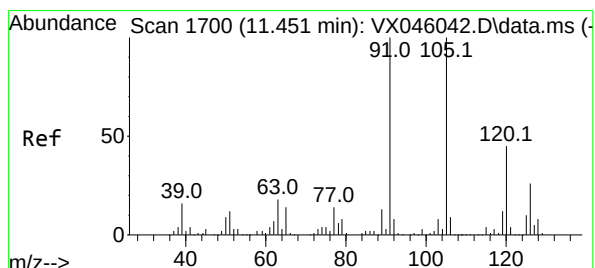
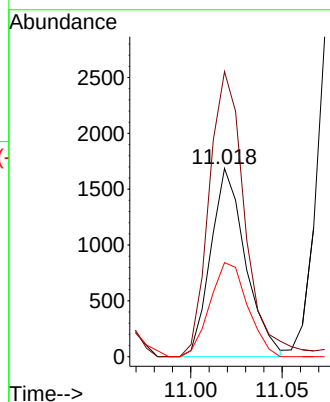
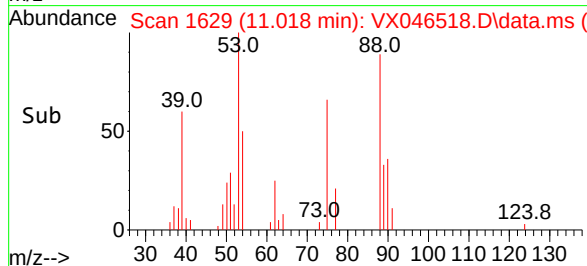
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion: 75 Resp: 2230
Ion Ratio Lower Upper
75 100
53 156.8 100.5 150.7
89 53.9 37.0 55.6

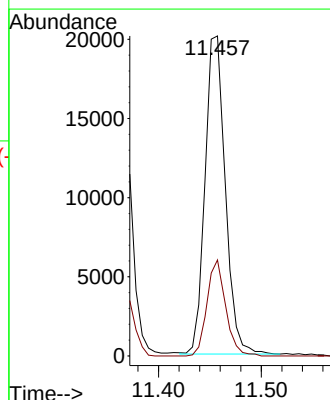
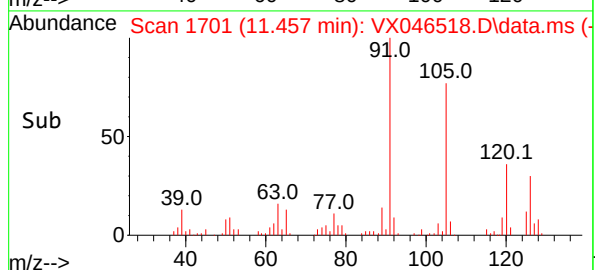
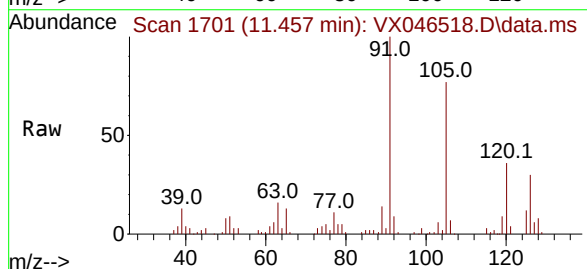
Manual Integrations
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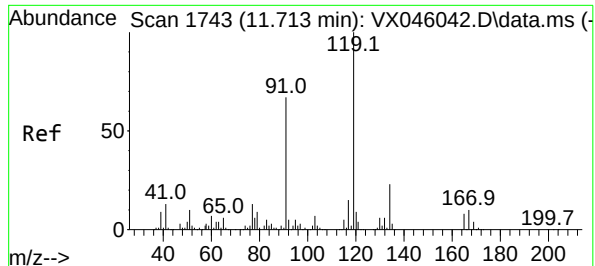
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 4.985 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

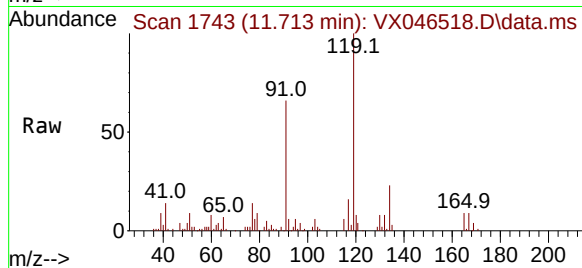
Tgt Ion: 91 Resp: 27633
Ion Ratio Lower Upper
91 100
126 27.8 13.3 39.8





#83
tert-Butylbenzene
Concen: 5.011 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

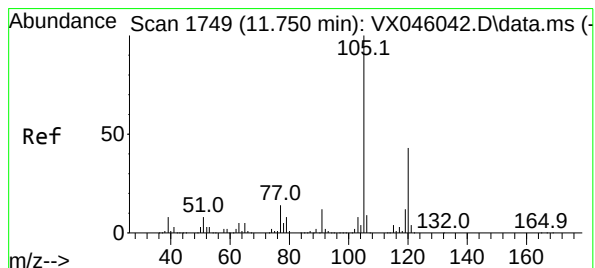
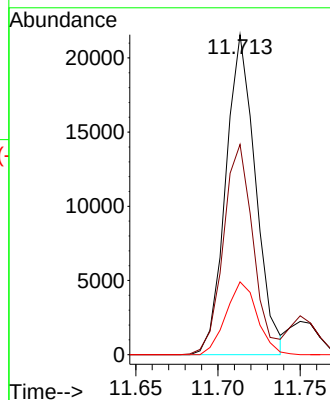
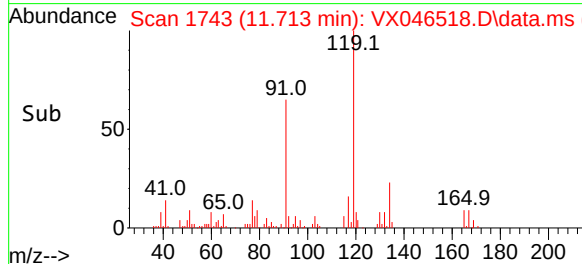
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:119 Resp: 27238
Ion Ratio Lower Upper
119 100
91 66.2 32.9 98.7
134 23.8 11.4 34.1

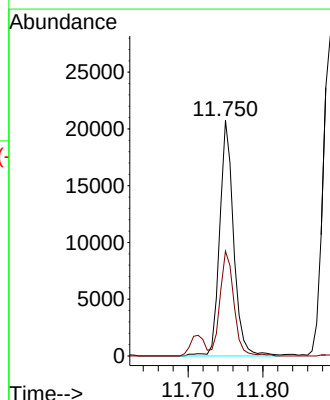
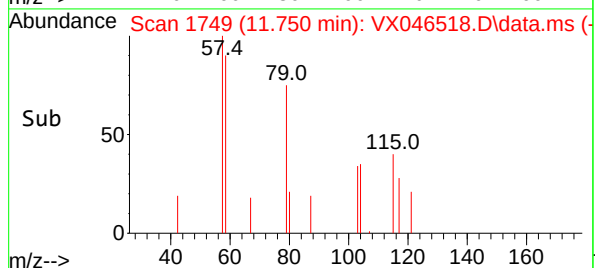
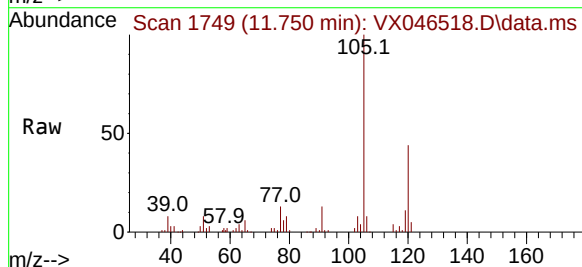
Manual Integrations
APPROVED

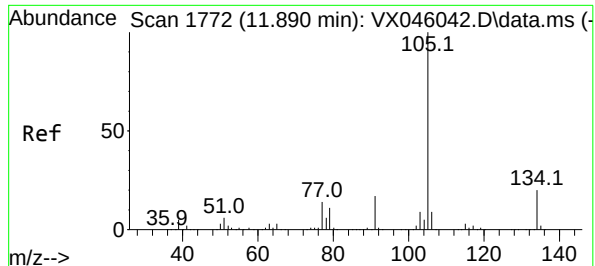
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 4.993 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:105 Resp: 26973
Ion Ratio Lower Upper
105 100
120 44.5 21.2 63.6





#85

sec-Butylbenzene

Concen: 5.077 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC005

Tgt Ion:105 Resp: 3545

Ion Ratio Lower Upper

105 100

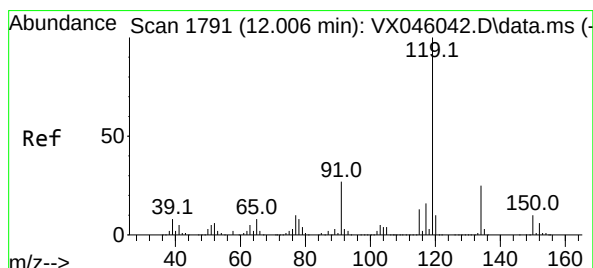
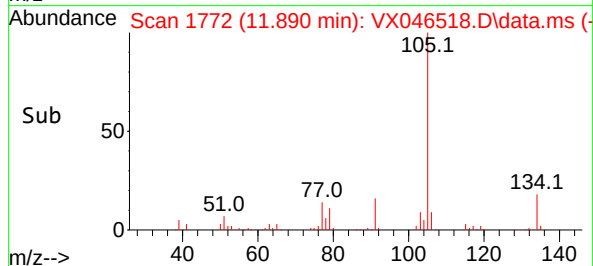
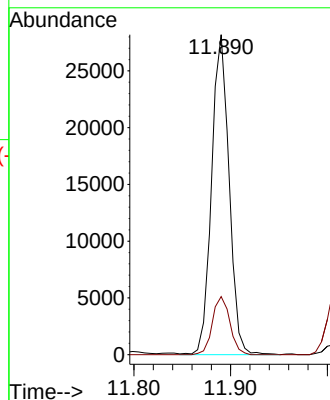
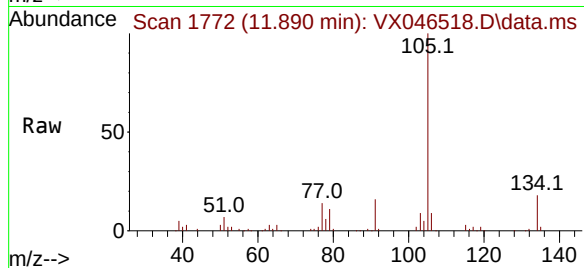
134 18.1 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 4.913 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

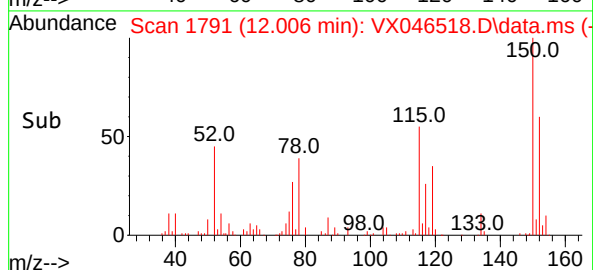
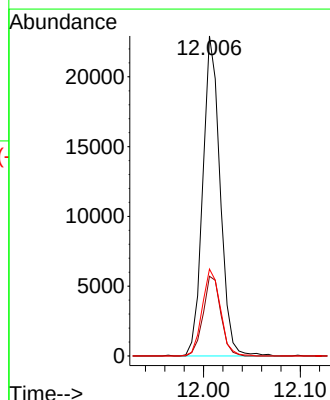
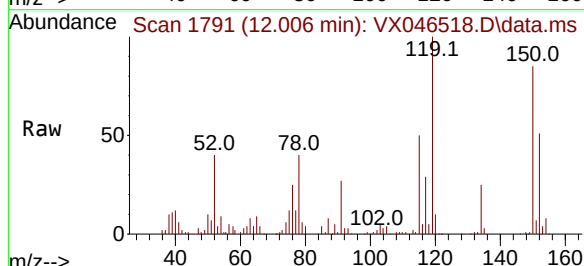
Tgt Ion:119 Resp: 28606

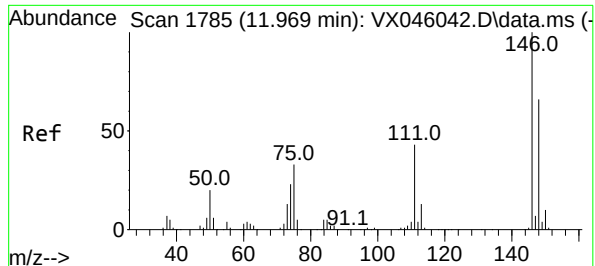
Ion Ratio Lower Upper

119 100

134 25.3 12.5 37.5

91 28.3 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 4.924 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tgt Ion:146 Resp: 1422

Ion Ratio Lower Upper

146 100

111 44.8 22.1 66.3

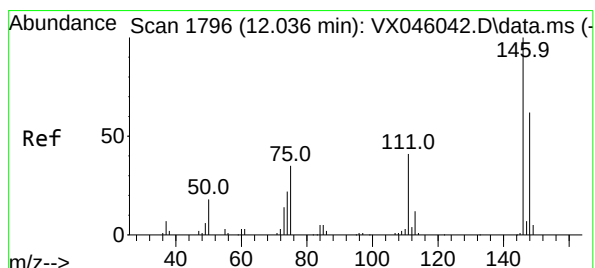
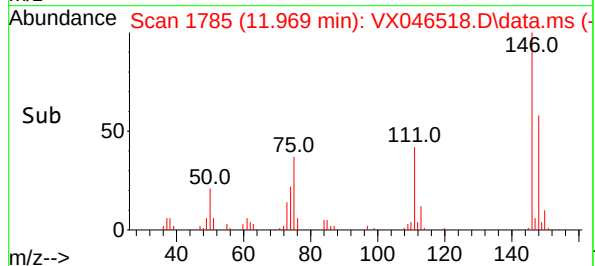
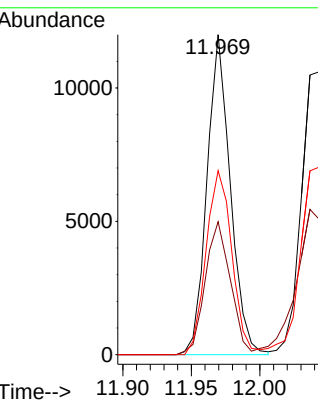
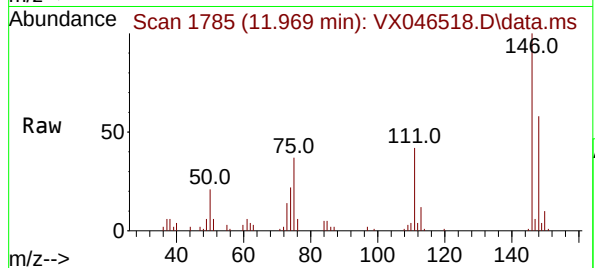
148 63.7 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 4.913 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

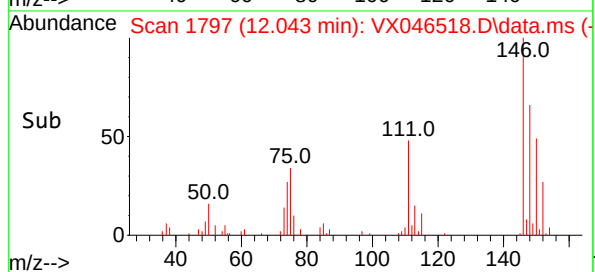
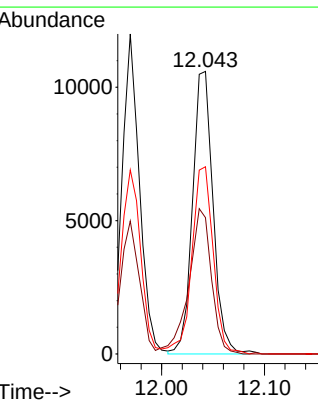
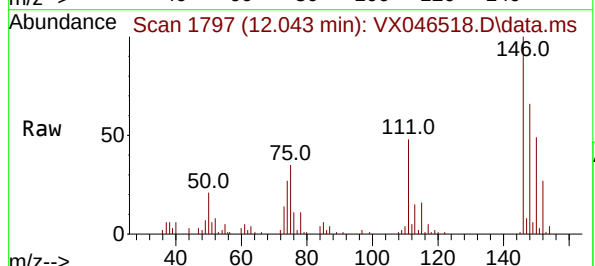
Tgt Ion:146 Resp: 14704

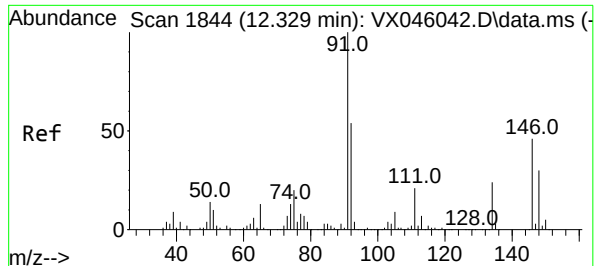
Ion Ratio Lower Upper

146 100

111 57.0 21.3 63.9

148 69.1 31.9 95.5





#89

n-Butylbenzene

Concen: 4.731 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

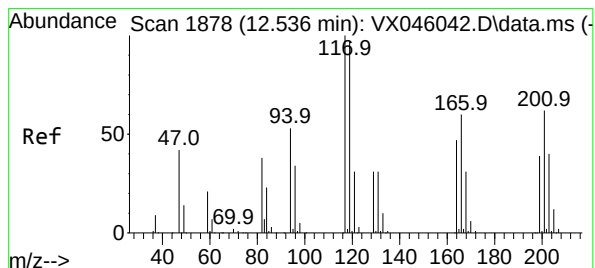
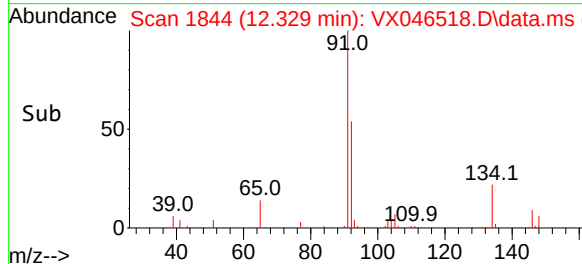
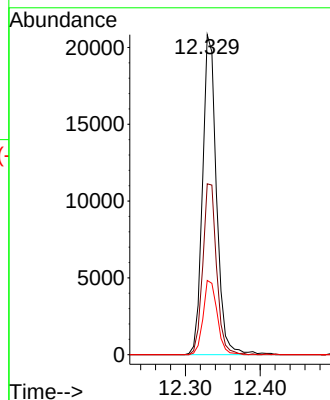
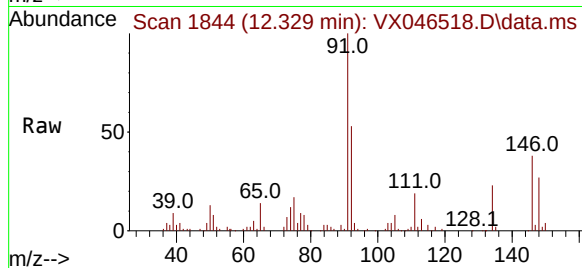
Tgt Ion:	91	Resp:	2705
Ion	Ratio	Lower	Upper
91	100		
92	52.8	26.9	80.7
134	23.3	11.8	35.3

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 4.719 ug/l

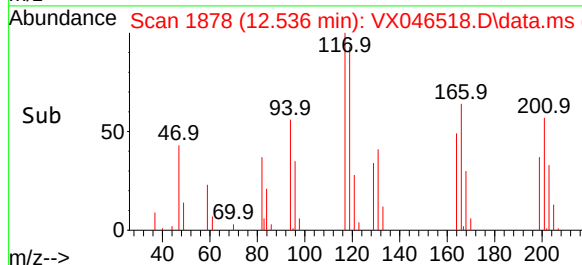
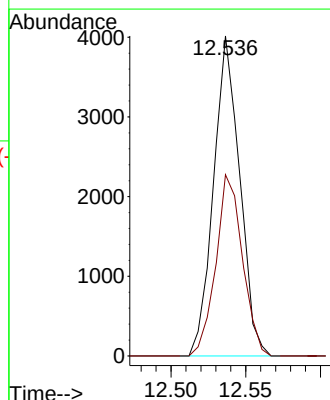
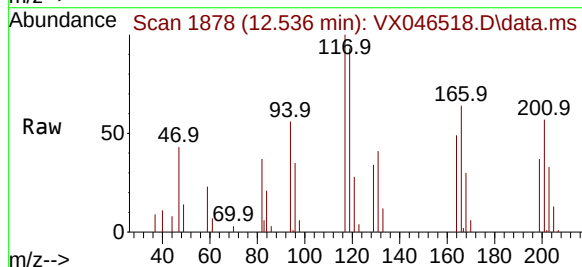
RT: 12.536 min Scan# 1878

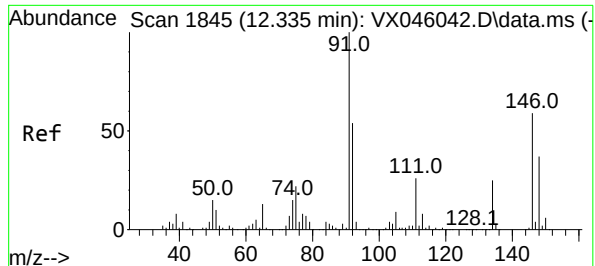
Delta R.T. 0.000 min

Lab File: VX046518.D

Acq: 06 Jun 2025 09:42

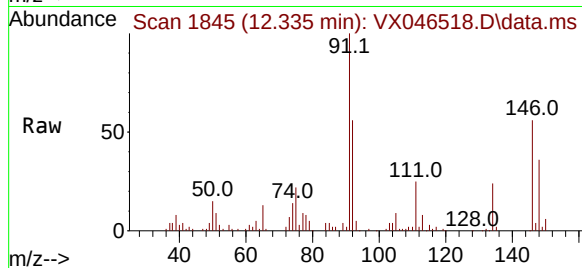
Tgt Ion:	117	Resp:	4884
Ion	Ratio	Lower	Upper
117	100		
201	57.6	31.6	94.7





#91
1,2-Dichlorobenzene
Concen: 5.058 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

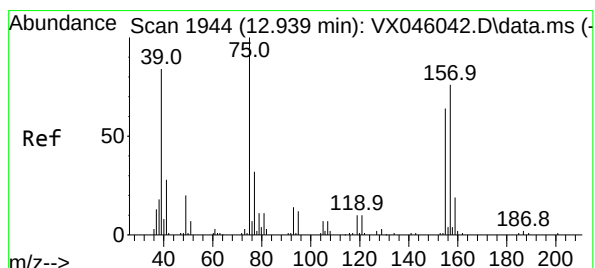
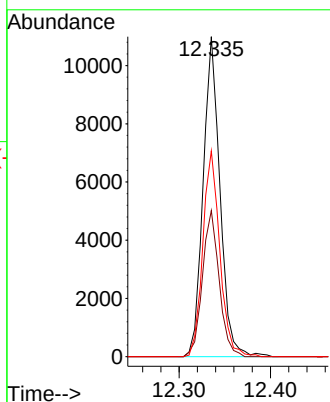
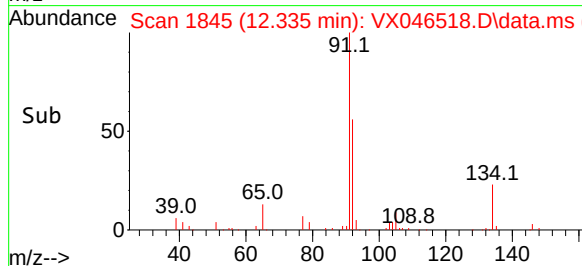
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005



Tgt Ion:146 Resp: 14100
Ion Ratio Lower Upper
146 100
111 45.4 22.4 67.3
148 64.8 31.6 94.8

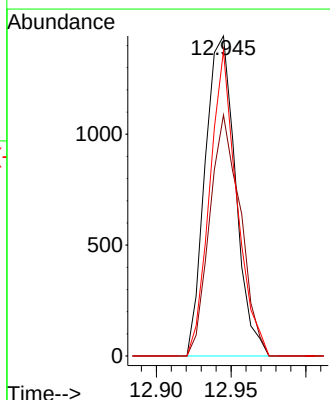
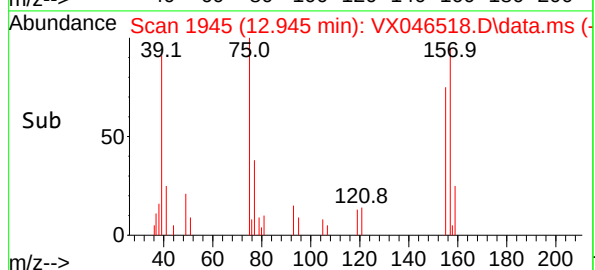
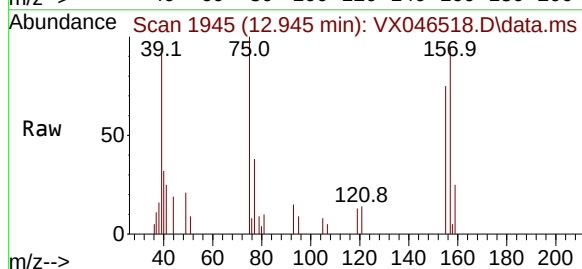
Manual Integrations
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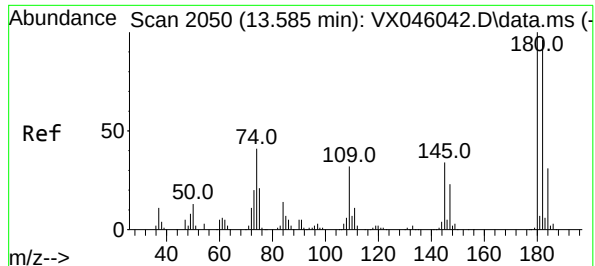
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 4.431 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

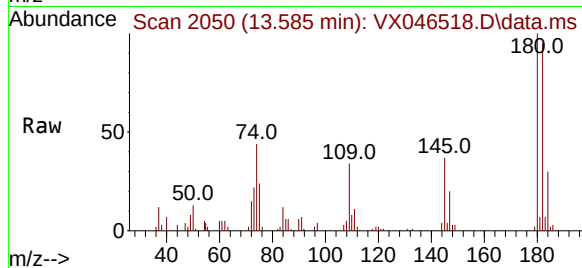
Tgt Ion: 75 Resp: 2035
Ion Ratio Lower Upper
75 100
155 76.3 34.9 104.8
157 85.5 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 4.447 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

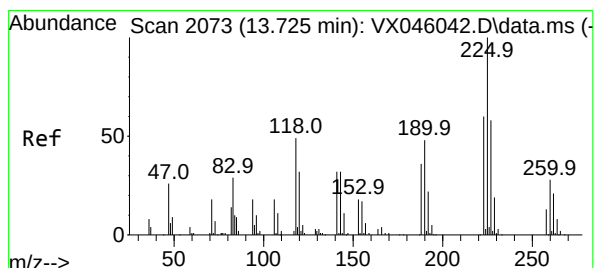
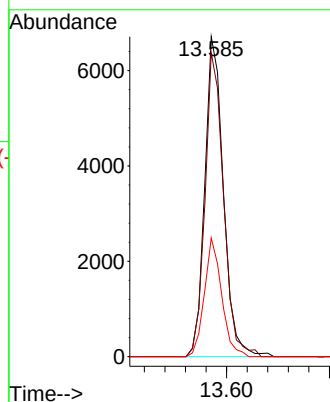
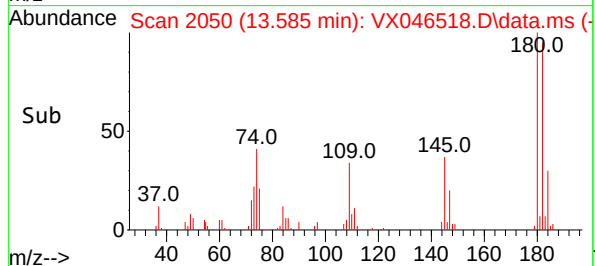
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:180 Resp: 845
Ion Ratio Lower Upper
180 100
182 94.5 47.9 143.8
145 34.5 17.1 51.2

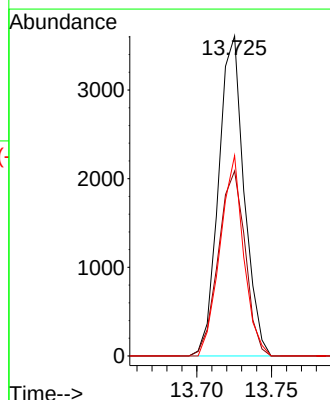
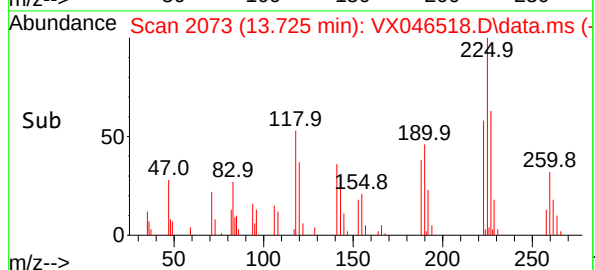
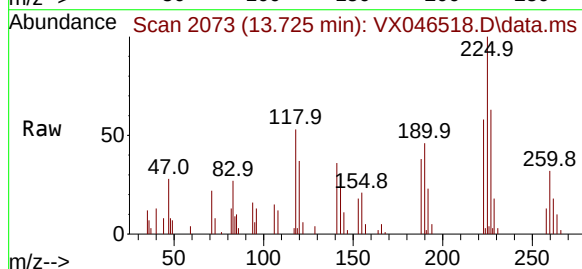
Manual Integrations
APPROVED

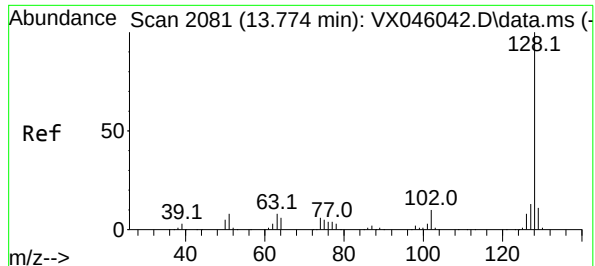
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#94
Hexachlorobutadiene
Concen: 4.848 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

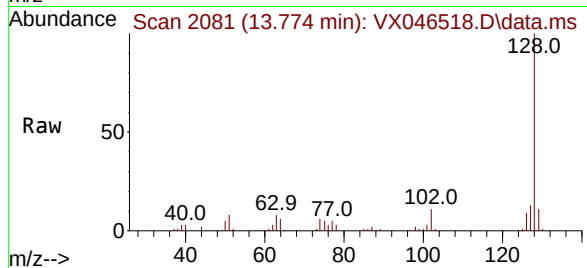
Tgt Ion:225 Resp: 4285
Ion Ratio Lower Upper
225 100
223 60.7 30.8 92.4
227 58.1 30.9 92.7





#95
Naphthalene
Concen: 4.242 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

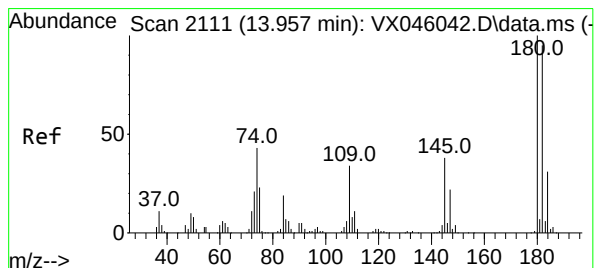
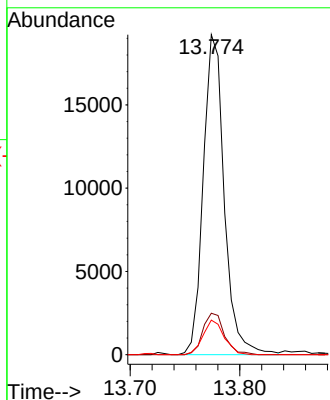
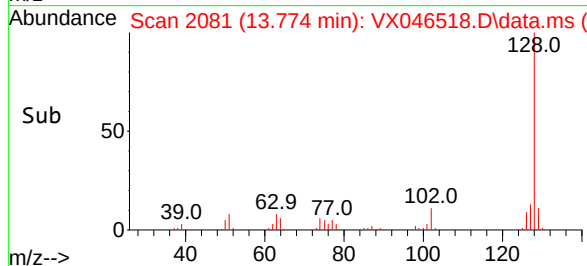
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005



Tgt Ion:128 Resp: 2558
Ion Ratio Lower Upper
128 100
127 13.3 10.4 15.6
129 10.9 8.6 13.0

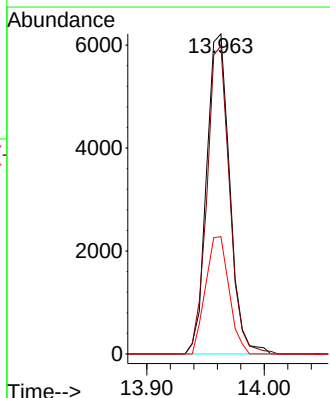
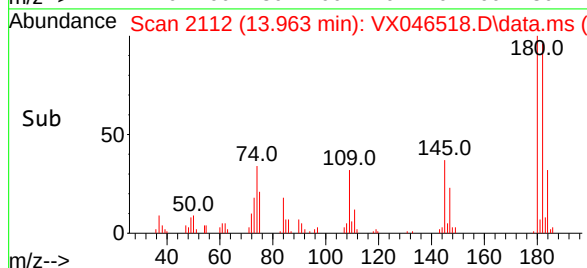
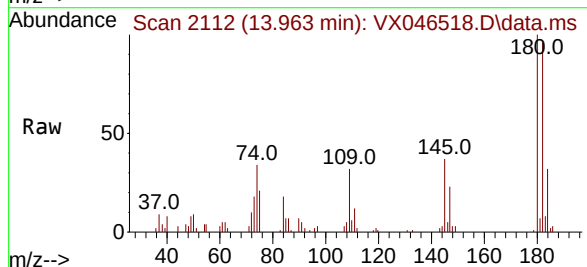
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 4.453 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046518.D
Acq: 06 Jun 2025 09:42

Tgt Ion:180 Resp: 8491
Ion Ratio Lower Upper
180 100
182 94.5 47.8 143.3
145 37.2 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046519.D
 Acq On : 06 Jun 2025 10:18
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	91899	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	155168	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	138173	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69785	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	31177	19.069	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	38.140%#		
35) Dibromofluoromethane	5.391	113	21913	19.203	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	38.400%#		
50) Toluene-d8	8.647	98	71915	19.116	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	38.240%#		
62) 4-Bromofluorobenzene	11.079	95	29923	19.224	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	38.440%#		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	24011	18.820	ug/l	97
3) Chloromethane	1.307	50	21532	18.541	ug/l	97
4) Vinyl Chloride	1.386	62	21814	18.843	ug/l	99
5) Bromomethane	1.624	94	15765	22.432	ug/l	98
6) Chloroethane	1.703	64	14119	18.798	ug/l	97
7) Trichlorofluoromethane	1.904	101	38797	20.256	ug/l	95
8) Diethyl Ether	2.148	74	13057	19.294	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.343	101	23928	19.829	ug/l	98
10) Methyl Iodide	2.465	142	24399	18.652	ug/l	98
11) Tert butyl alcohol	2.965	59	16570	91.334	ug/l	98
12) 1,1-Dichloroethene	2.337	96	20232	18.543	ug/l	94
13) Acrolein	2.245	56	20307	111.446	ug/l	98
14) Allyl chloride	2.678	41	40999	19.133	ug/l	96
15) Acrylonitrile	3.075	53	67593	98.540	ug/l	99
16) Acetone	2.386	43	61298	98.314	ug/l	97
17) Carbon Disulfide	2.526	76	45190	19.630	ug/l	100
18) Methyl Acetate	2.715	43	39765	20.419	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	75365	19.741	ug/l	99
20) Methylene Chloride	2.800	84	24863	18.955	ug/l	96
21) trans-1,2-Dichloroethene	3.105	96	21333	18.476	ug/l	93
22) Diisopropyl ether	3.770	45	86178	20.399	ug/l #	77
23) Vinyl Acetate	3.733	43	309124	94.776	ug/l	100
24) 1,1-Dichloroethane	3.623	63	46528	19.761	ug/l	99
25) 2-Butanone	4.562	43	86287	94.804	ug/l	99
26) 2,2-Dichloropropane	4.489	77	33782	19.327	ug/l	97
27) cis-1,2-Dichloroethene	4.501	96	27631	19.439	ug/l	97
28) Bromochloromethane	4.910	49	21754	19.371	ug/l	99
29) Tetrahydrofuran	5.013	42	53547	93.158	ug/l	100
30) Chloroform	5.105	83	49854	20.208	ug/l	92
31) Cyclohexane	5.483	56	37188	19.565	ug/l	90
32) 1,1,1-Trichloroethane	5.391	97	41583	19.705	ug/l	98
36) 1,1-Dichloropropene	5.702	75	31397	19.262	ug/l	99
37) Ethyl Acetate	4.733	43	32379	20.357	ug/l	98
38) Carbon Tetrachloride	5.684	117	35956	19.695	ug/l	98
39) Methylcyclohexane	7.379	83	35729	18.571	ug/l	96
40) Benzene	6.044	78	93317	20.336	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046519.D
 Acq On : 06 Jun 2025 10:18
 Operator : JC/MD
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	20773	21.027	ug/l	96
42) 1,2-Dichloroethane	6.098	62	39768	20.832	ug/l	100
43) Isopropyl Acetate	6.342	43	55054	19.851	ug/l	99
44) Trichloroethene	7.129	130	22094	18.950	ug/l	97
45) 1,2-Dichloropropane	7.434	63	24588	20.760	ug/l	98
46) Dibromomethane	7.586	93	17753	19.924	ug/l	97
47) Bromodichloromethane	7.824	83	38325	20.919	ug/l	100
48) Methyl methacrylate	7.696	41	28189	19.755	ug/l	98
49) 1,4-Dioxane	7.665	88	8127	425.896	ug/l	99
51) 4-Methyl-2-Pentanone	8.574	43	180974	102.687	ug/l	99
52) Toluene	8.720	92	56537	20.055	ug/l	98
53) t-1,3-Dichloropropene	8.976	75	32552	19.817	ug/l	99
54) cis-1,3-Dichloropropene	8.372	75	36009	19.716	ug/l	89
55) 1,1,2-Trichloroethane	9.153	97	24130	21.322	ug/l	98
56) Ethyl methacrylate	9.116	69	35137	20.176	ug/l	97
57) 1,3-Dichloropropane	9.305	76	41306	20.653	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	93580	98.650	ug/l	99
59) 2-Hexanone	9.427	43	128964	102.032	ug/l	99
60) Dibromochloromethane	9.519	129	27175	20.414	ug/l	99
61) 1,2-Dibromoethane	9.610	107	23582	19.996	ug/l	99
64) Tetrachloroethene	9.275	164	17890	19.362	ug/l	94
65) Chlorobenzene	10.079	112	63695	19.600	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	22188	20.205	ug/l	99
67) Ethyl Benzene	10.195	91	112127	19.765	ug/l	98
68) m/p-Xylenes	10.299	106	82876	40.272	ug/l	97
69) o-Xylene	10.640	106	40415	20.304	ug/l	99
70) Styrene	10.653	104	69469	20.388	ug/l	100
71) Bromoform	10.799	173	16593	19.817	ug/l #	97
73) Isopropylbenzene	10.963	105	110221	20.092	ug/l	100
74) N-amyl acetate	10.842	43	46707	19.334	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	36116	20.568	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	30039m	19.991	ug/l	
77) Bromobenzene	11.195	156	25827	20.283	ug/l	96
78) n-propylbenzene	11.305	91	133297	20.075	ug/l	100
79) 2-Chlorotoluene	11.360	91	80101	20.005	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	92024	20.131	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	9832	19.187	ug/l	99
82) 4-Chlorotoluene	11.451	91	93283	19.655	ug/l	98
83) tert-Butylbenzene	11.713	119	93897	20.178	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	93782	20.279	ug/l	98
85) sec-Butylbenzene	11.890	105	119909	20.054	ug/l	99
86) p-Isopropyltoluene	12.006	119	99196	19.900	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	47842	19.349	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	48453	18.912	ug/l	99
89) n-Butylbenzene	12.329	91	94297	19.263	ug/l	99
90) Hexachloroethane	12.536	117	16809	18.972	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	47259	19.801	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	7586	19.293	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	30280	18.598	ug/l	98
94) Hexachlorobutadiene	13.725	225	14184	18.746	ug/l	97
95) Naphthalene	13.774	128	98466	19.071	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	30099	18.437	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046519.D
Acq On : 06 Jun 2025 10:18
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

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

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

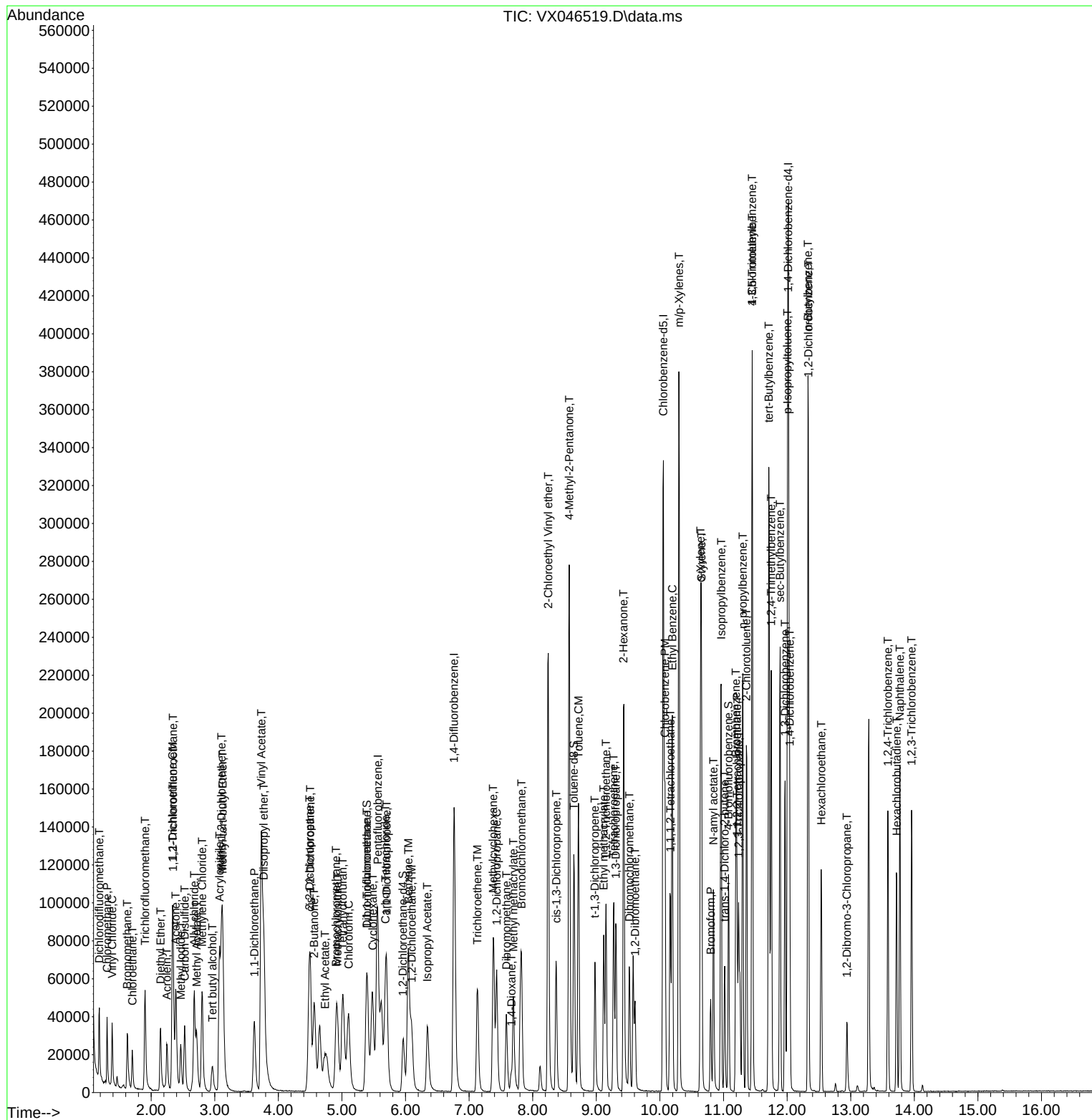
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Data File : VX046519.D
Acq On : 06 Jun 2025 10:18
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

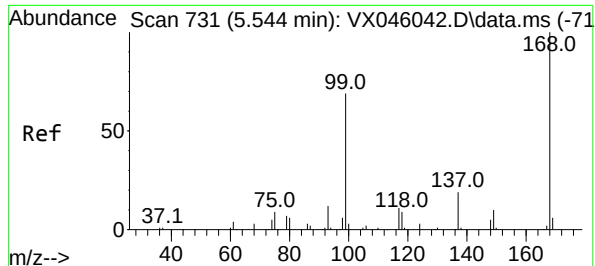
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Manual Integrations

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

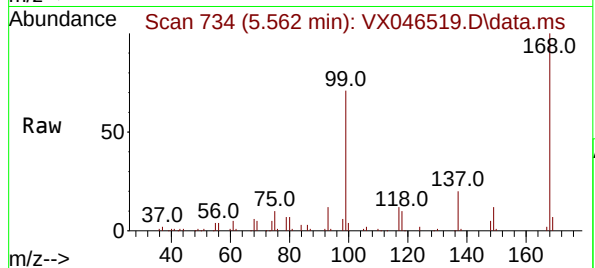
Quant Time: Jun 06 16:41:10 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

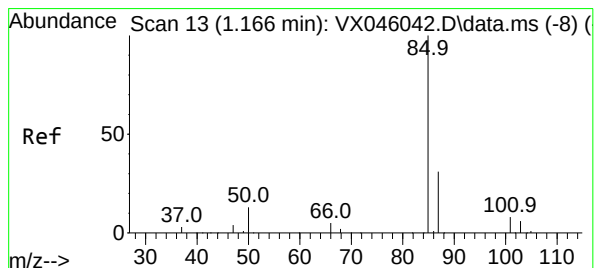
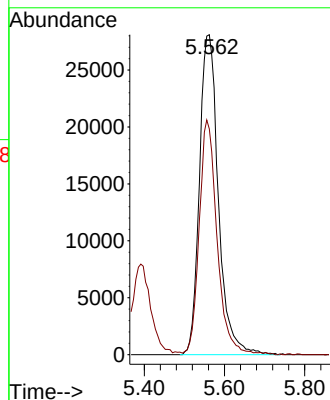
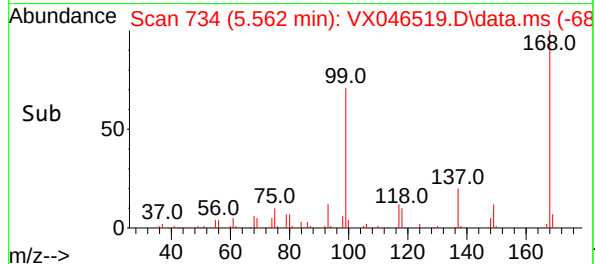
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:168 Resp: 91899
Ion Ratio Lower Upper
168 100
99 70.3 54.9 82.3

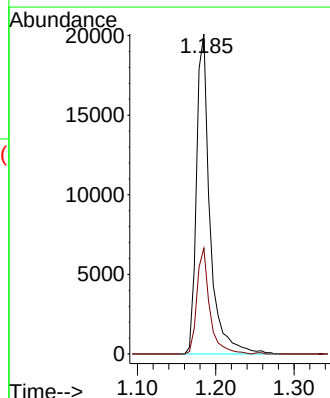
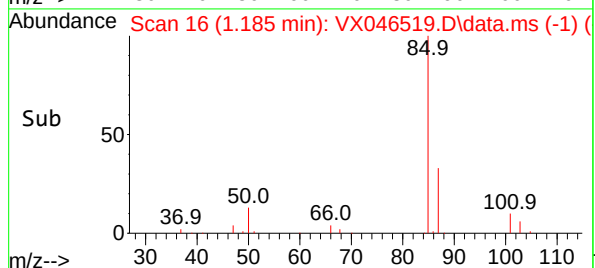
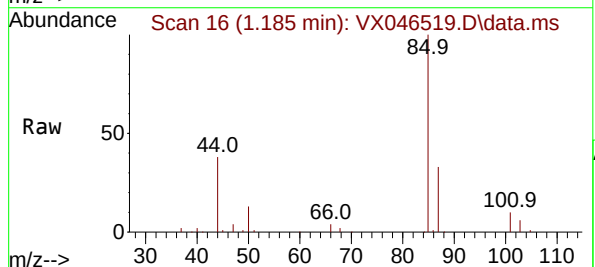
Manual Integrations
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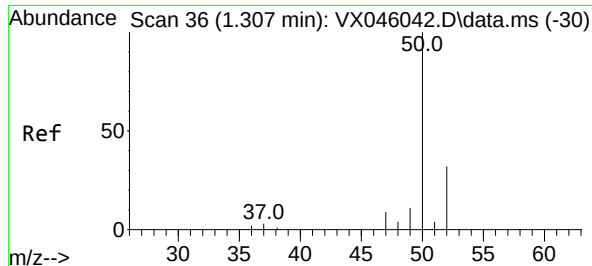
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 18.820 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 85 Resp: 24011
Ion Ratio Lower Upper
85 100
87 33.1 15.7 47.1





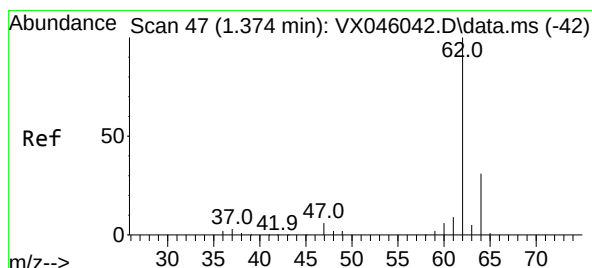
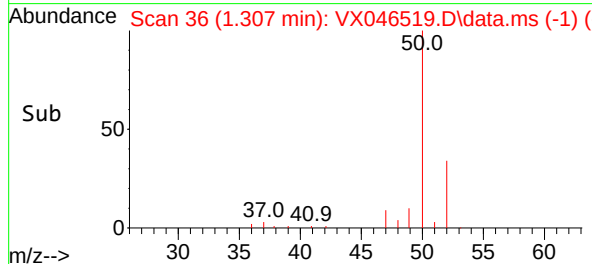
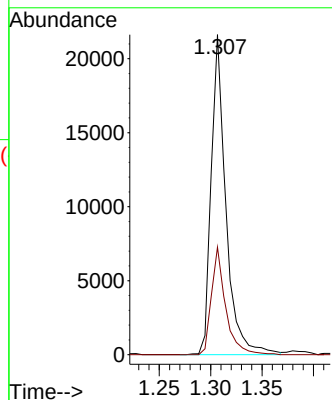
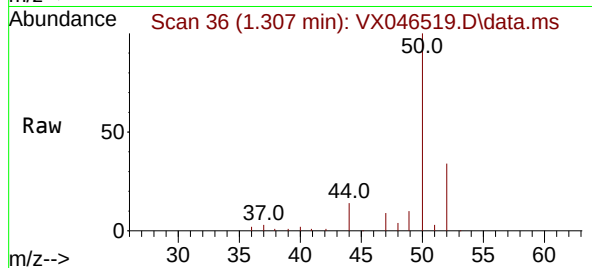
#3
Chloromethane
Concen: 18.541 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 50 Resp: 2153
Ion Ratio Lower Upper
50 100
52 33.6 25.4 38.2

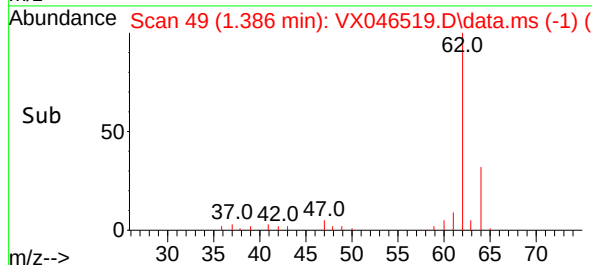
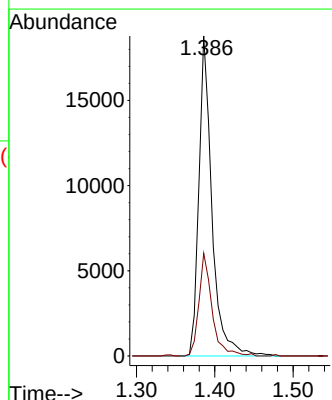
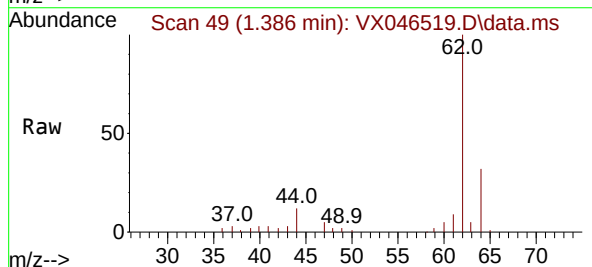
Manual Integrations
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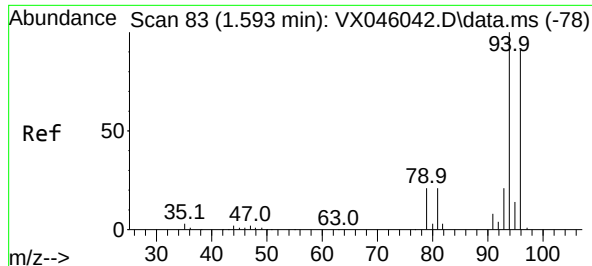
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 18.843 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

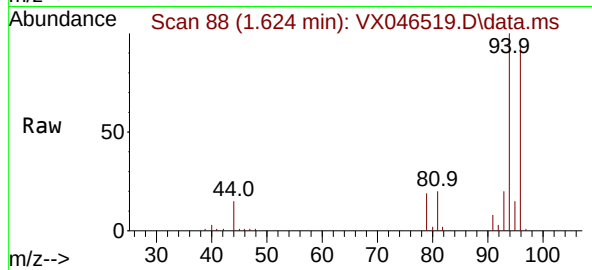
Tgt Ion: 62 Resp: 21814
Ion Ratio Lower Upper
62 100
64 32.1 25.2 37.8





#5
Bromomethane
Concen: 22.432 ug/l
RT: 1.624 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

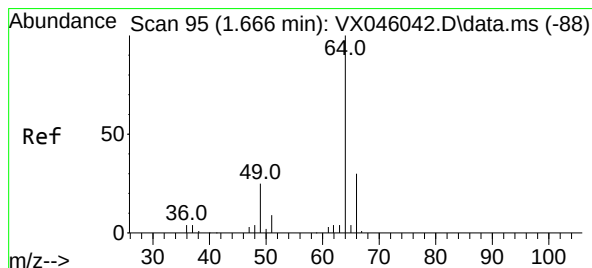
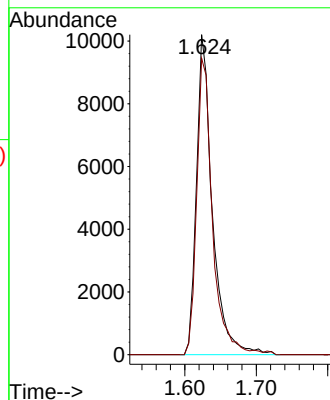
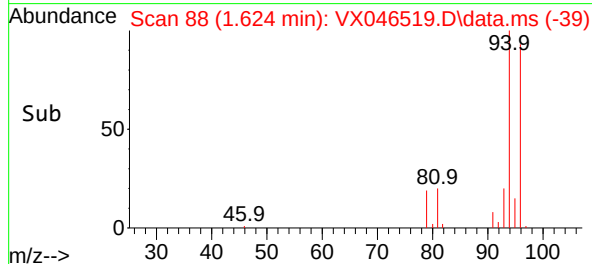
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 94 Resp: 1576
Ion Ratio Lower Upper
94 100
96 92.6 72.8 109.2

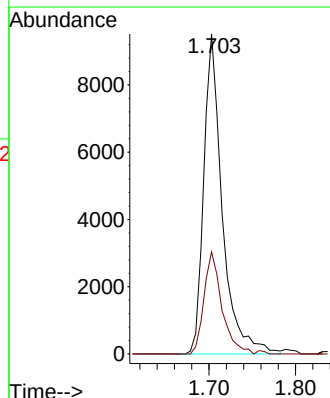
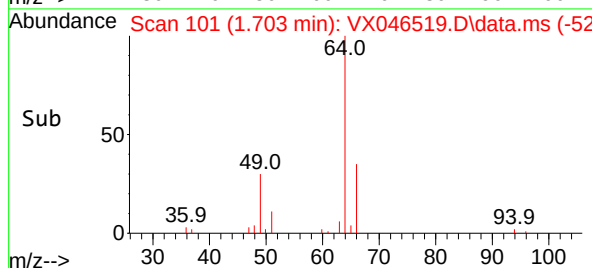
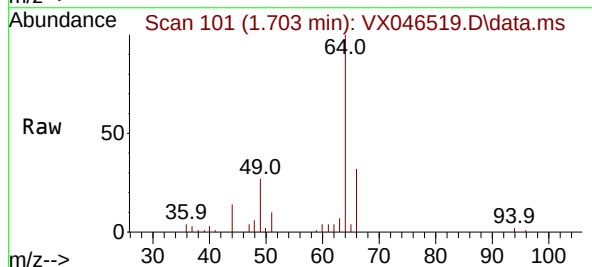
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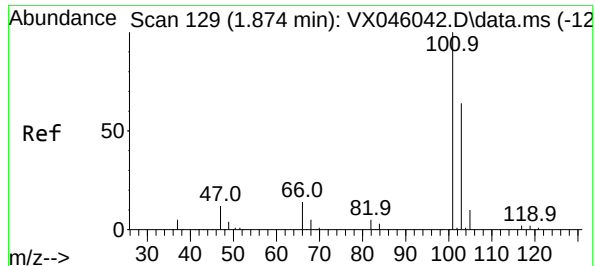
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 18.798 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

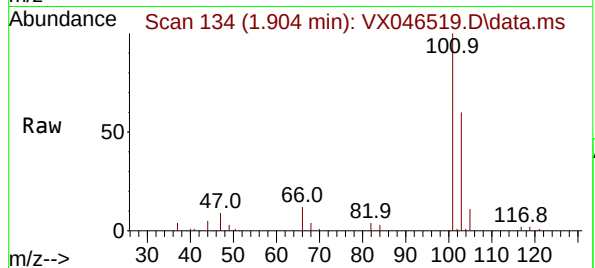
Tgt Ion: 64 Resp: 14119
Ion Ratio Lower Upper
64 100
66 31.9 24.3 36.5





#7
Trichlorofluoromethane
Concen: 20.256 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

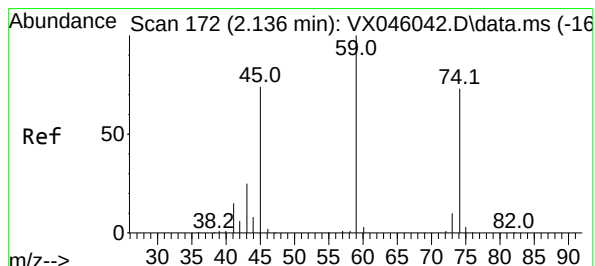
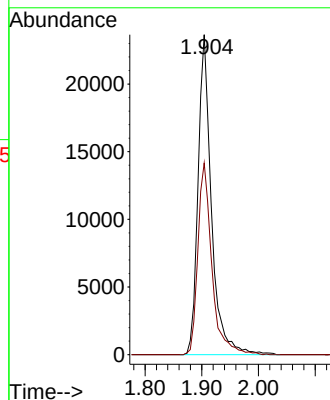
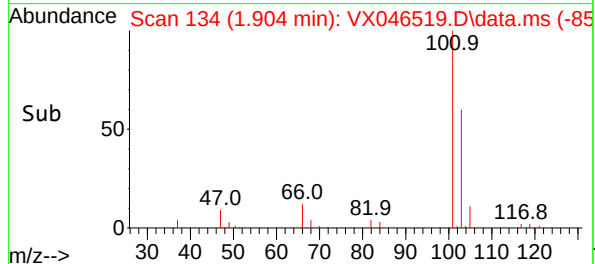
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:101 Resp: 3879
Ion Ratio Lower Upper
101 100
103 59.9 51.0 76.4

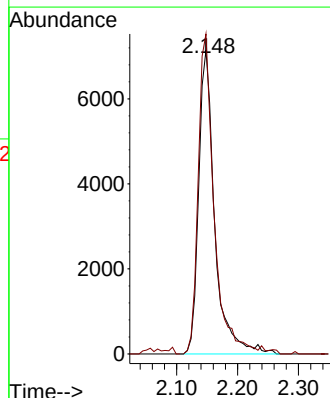
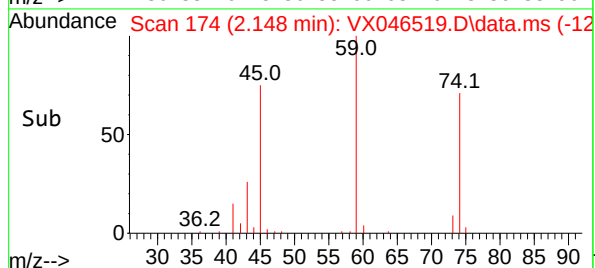
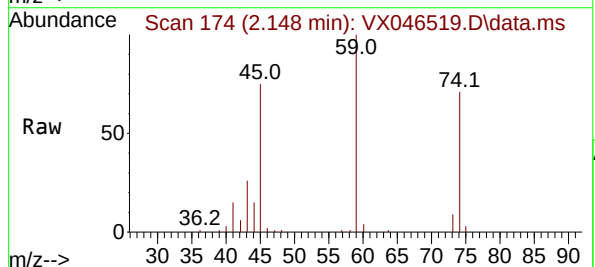
Manual Integrations
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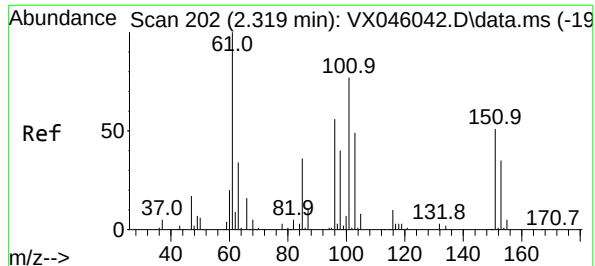
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 19.294 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

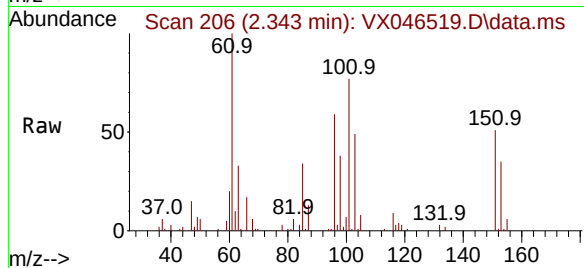
Tgt Ion: 74 Resp: 13057
Ion Ratio Lower Upper
74 100
45 104.0 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.829 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

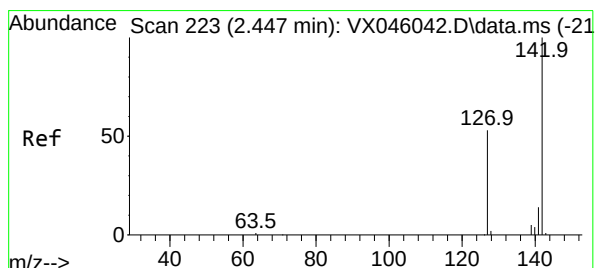
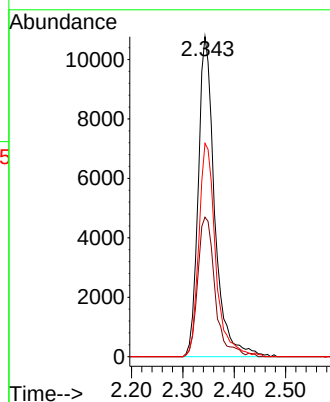
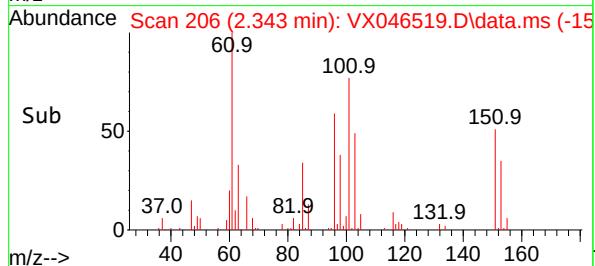
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:101 Resp: 23928
Ion Ratio Lower Upper
101 100
85 45.9 38.6 58.0
151 67.9 55.2 82.8

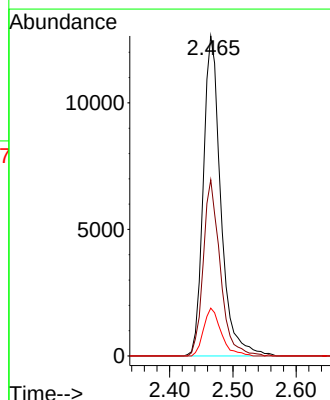
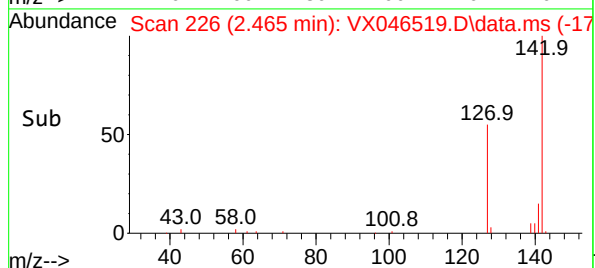
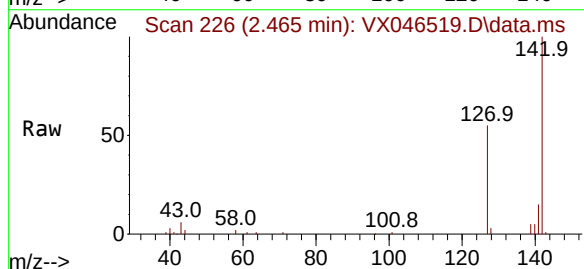
Manual Integrations
APPROVED

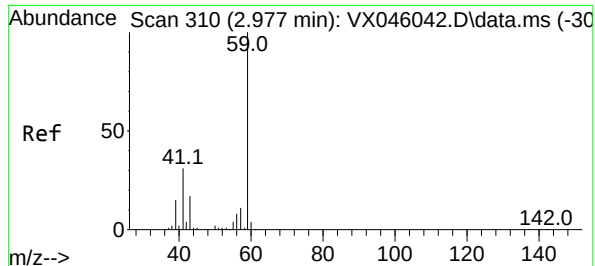
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 18.652 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:142 Resp: 24399
Ion Ratio Lower Upper
142 100
127 53.3 41.7 62.5
141 15.1 11.5 17.3





#11

Tert butyl alcohol

Concen: 91.334 ug/l

RT: 2.965 min Scan# 308

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 59 Resp: 16570

Ion Ratio Lower Upper

59 100

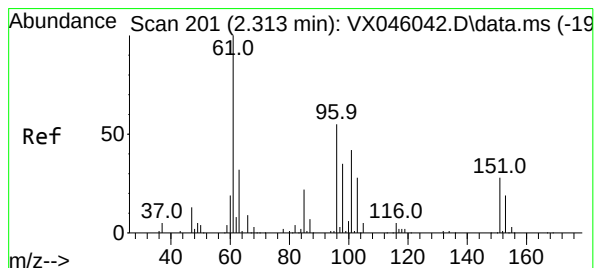
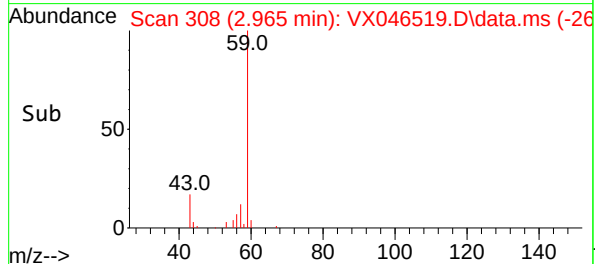
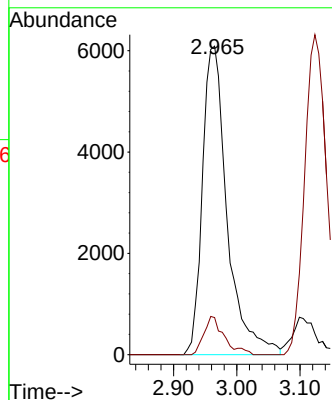
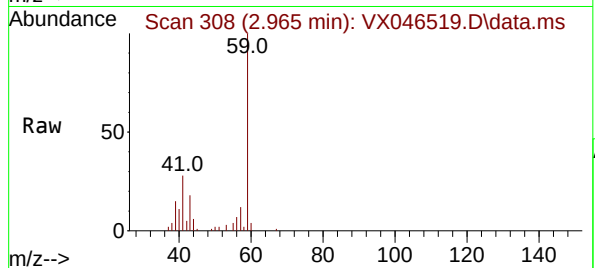
57 10.1 8.6 12.8

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 18.543 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

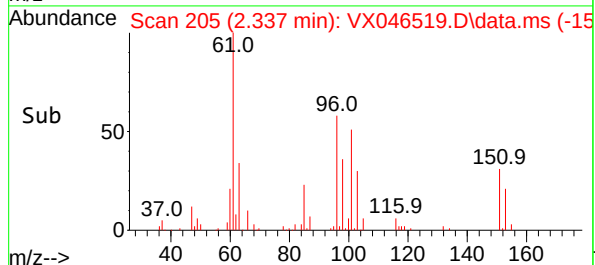
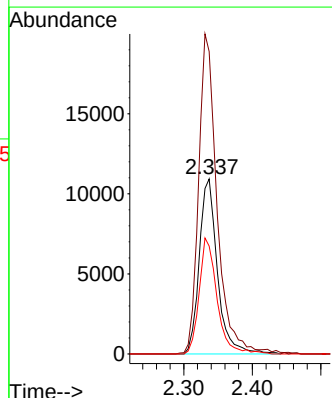
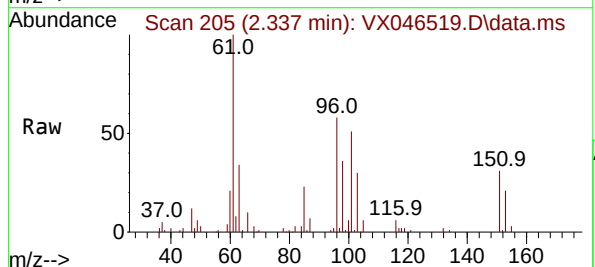
Tgt Ion: 96 Resp: 20232

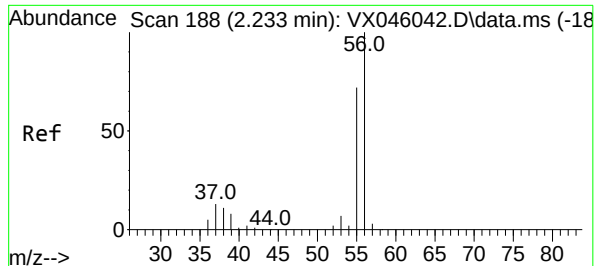
Ion Ratio Lower Upper

96 100

61 172.3 146.2 219.2

98 61.6 51.0 76.6





#13

Acrolein

Concen: 111.446 ug/l

RT: 2.245 min Scan# 188

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 2030

Ion Ratio Lower Upper

56 100

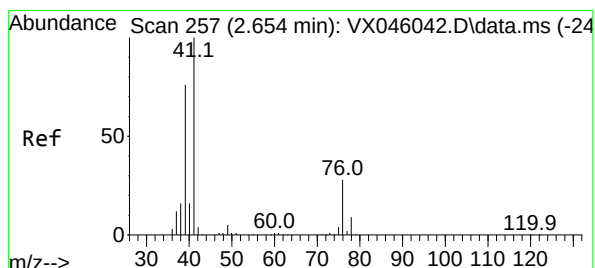
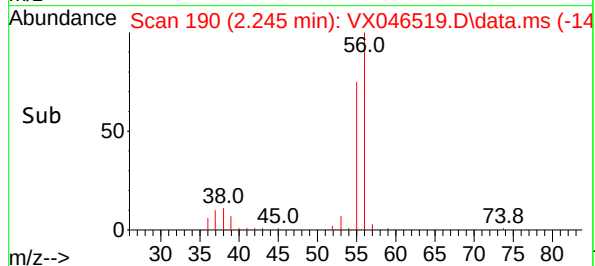
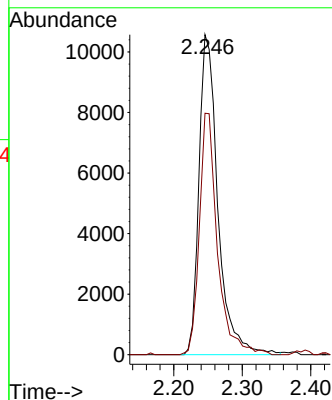
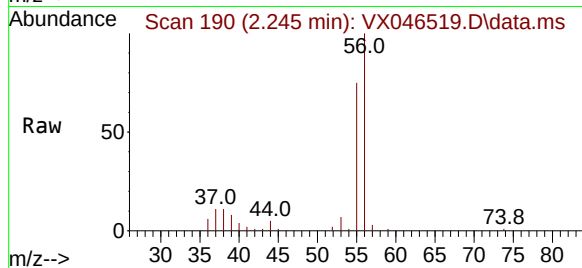
55 72.2 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 19.133 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

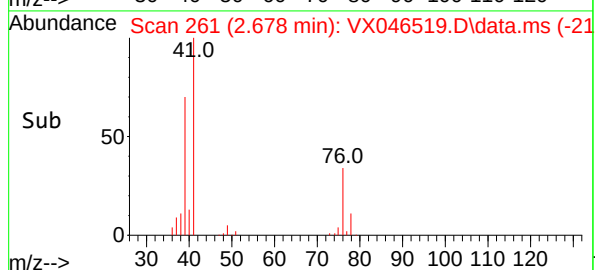
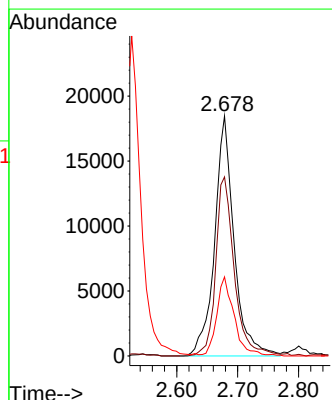
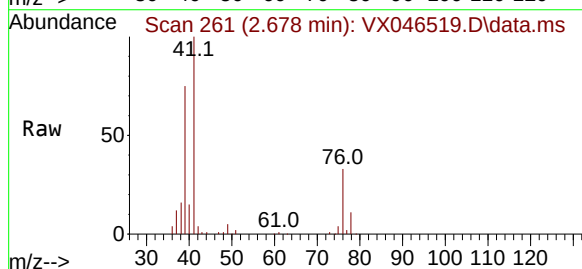
Tgt Ion: 41 Resp: 40999

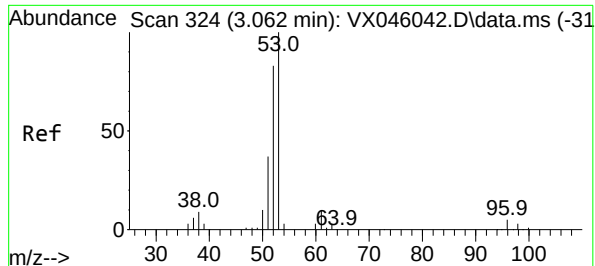
Ion Ratio Lower Upper

41 100

39 71.5 60.6 90.8

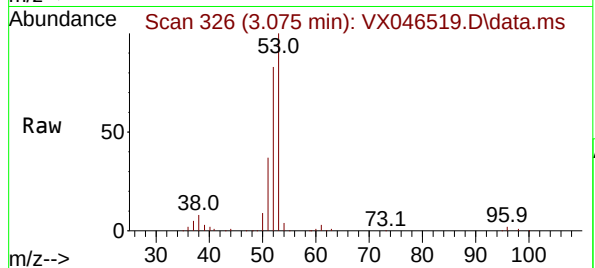
76 29.5 24.9 37.3





#15
Acrylonitrile
Concen: 98.540 ug/l
RT: 3.075 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

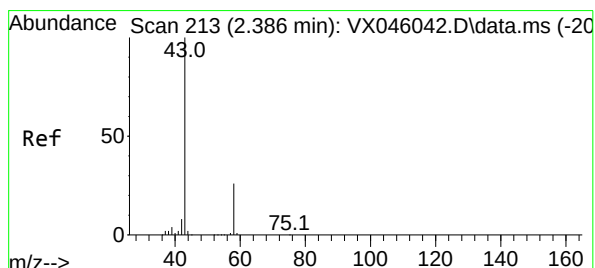
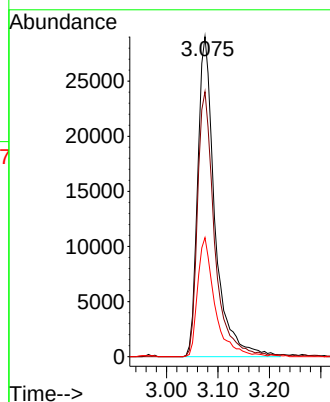
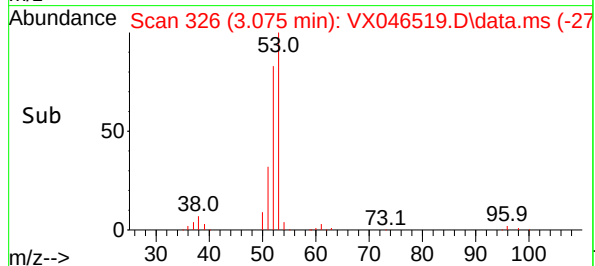
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 53 Resp: 6759
Ion Ratio Lower Upper
53 100
52 82.5 65.3 97.9
51 37.6 29.8 44.8

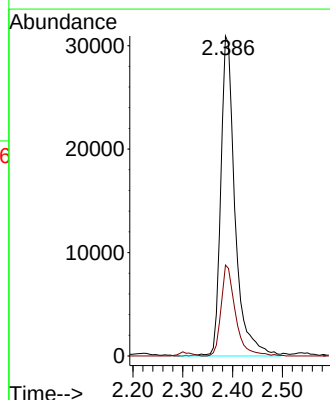
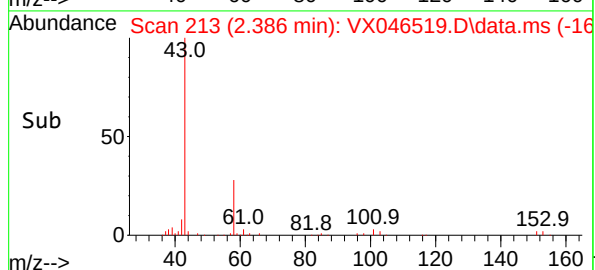
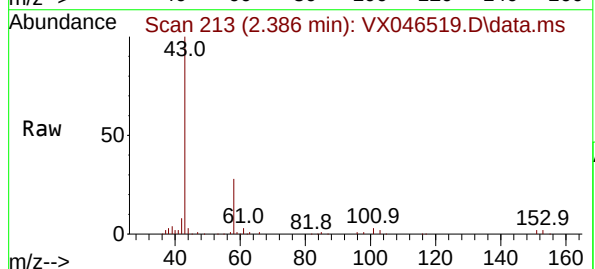
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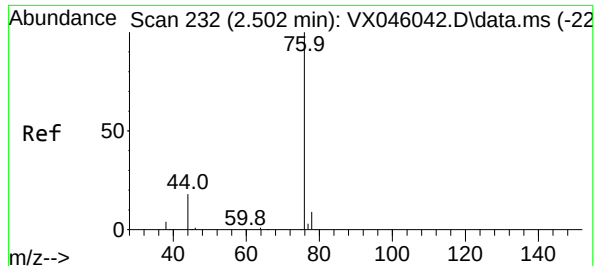
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#16
Acetone
Concen: 98.314 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 43 Resp: 61298
Ion Ratio Lower Upper
43 100
58 28.2 21.2 31.8





#17

Carbon Disulfide

Concen: 19.630 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 76 Resp: 45190

Ion Ratio Lower Upper

76 100

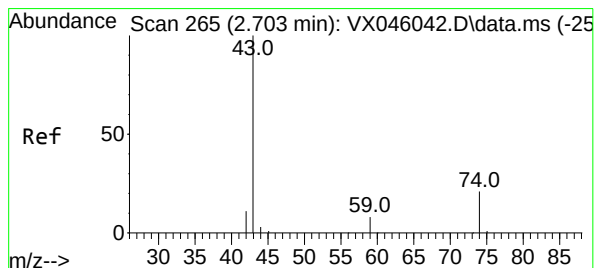
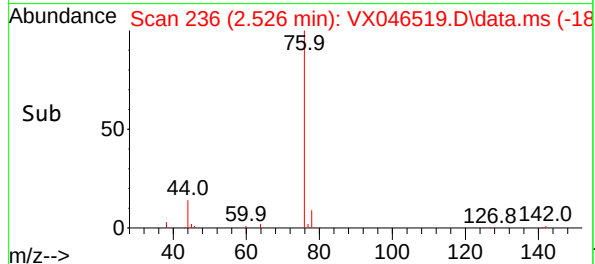
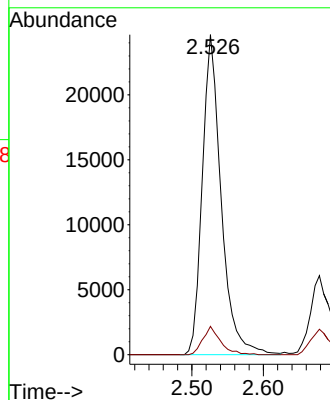
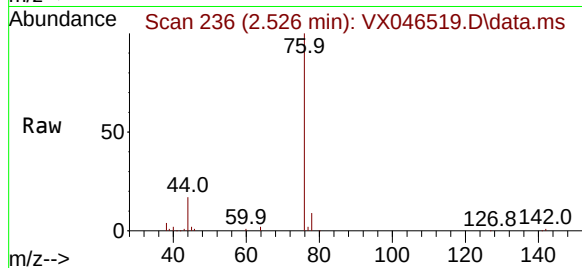
78 8.9 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 20.419 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.006 min

Lab File: VX046519.D

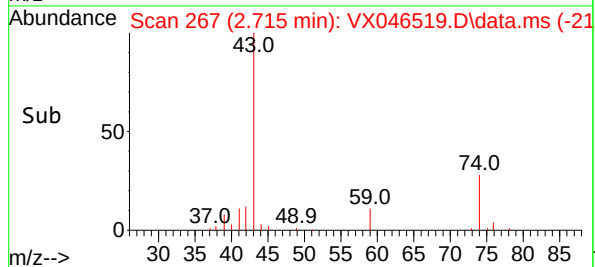
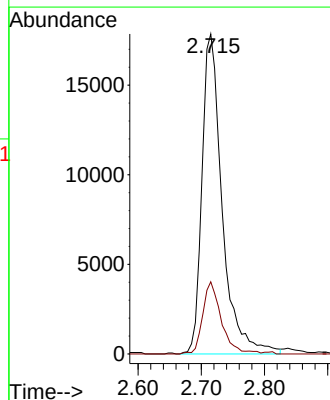
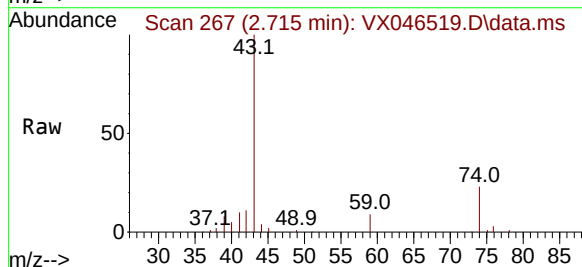
Acq: 06 Jun 2025 10:18

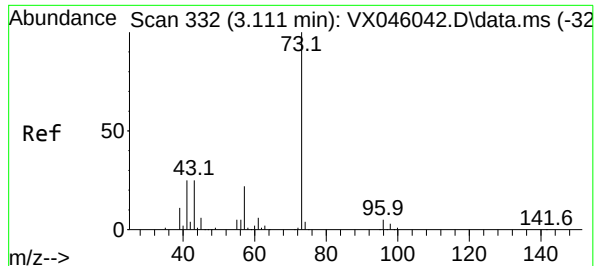
Tgt Ion: 43 Resp: 39765

Ion Ratio Lower Upper

43 100

74 20.8 16.7 25.1





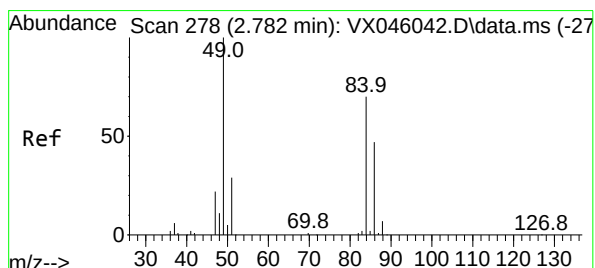
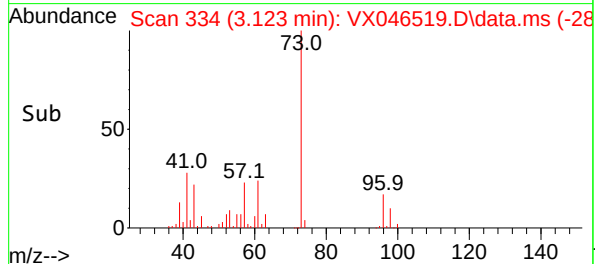
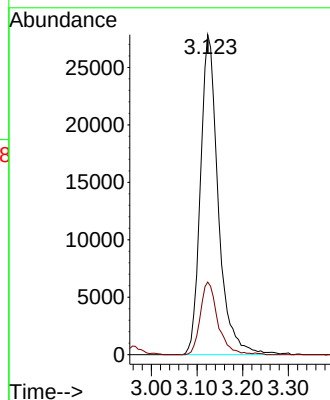
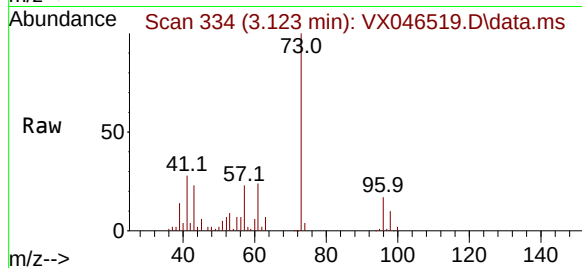
#19
Methyl tert-butyl Ether
Concen: 19.741 ug/l
RT: 3.123 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 73 Resp: 7536
Ion Ratio Lower Upper
73 100
57 22.7 17.7 26.5

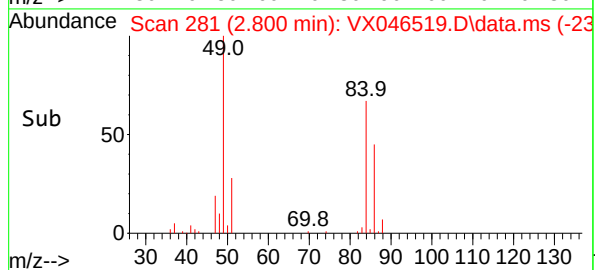
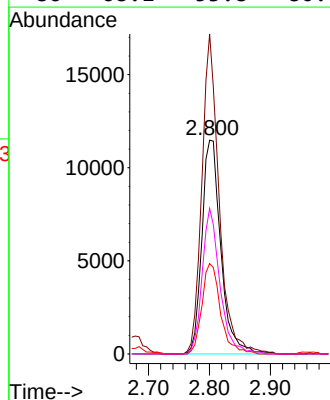
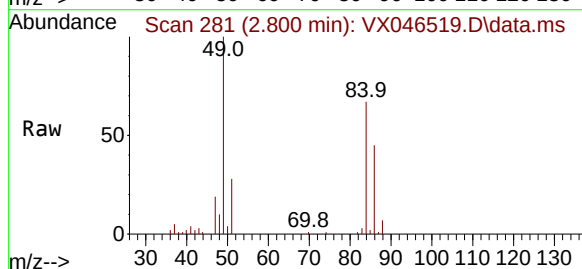
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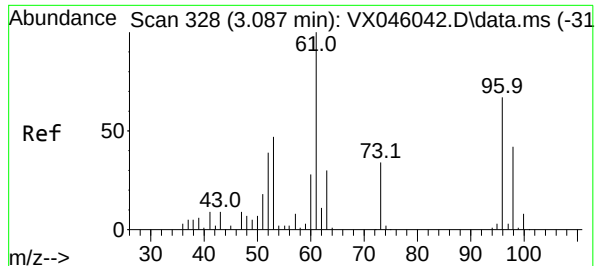
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 18.955 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

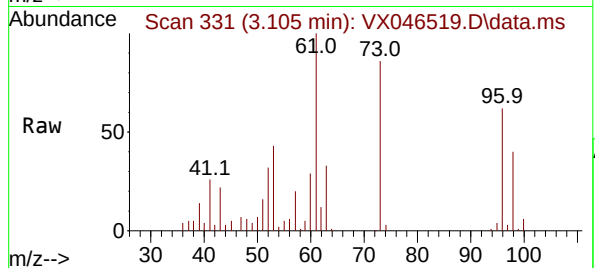
Tgt Ion: 84 Resp: 24863
Ion Ratio Lower Upper
84 100
49 149.7 113.9 170.9
51 42.3 33.5 50.3
86 68.1 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 18.476 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

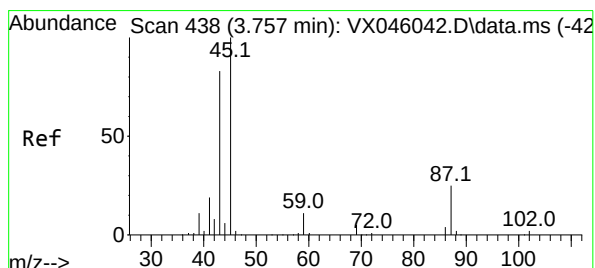
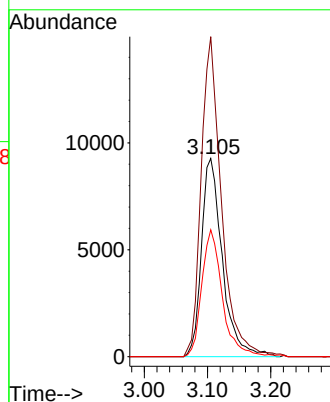
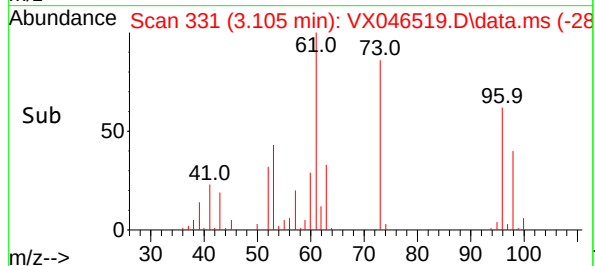
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 96 Resp: 2133
Ion Ratio Lower Upper
96 100
61 161.4 119.5 179.3
98 64.0 50.0 75.0

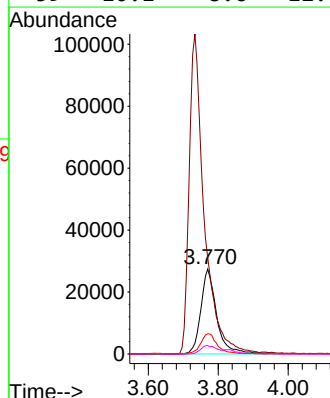
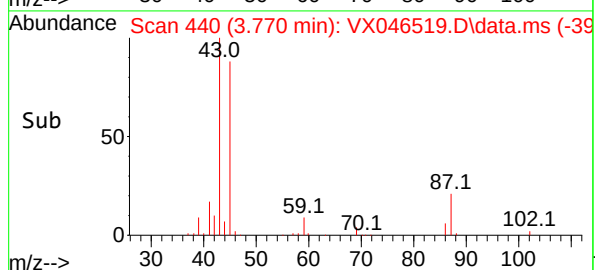
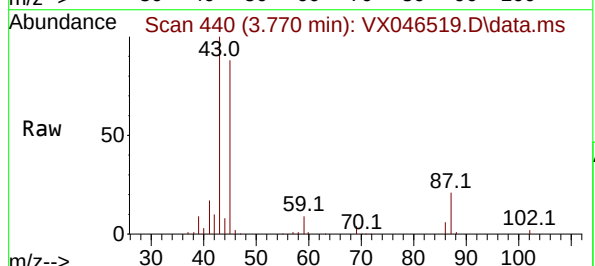
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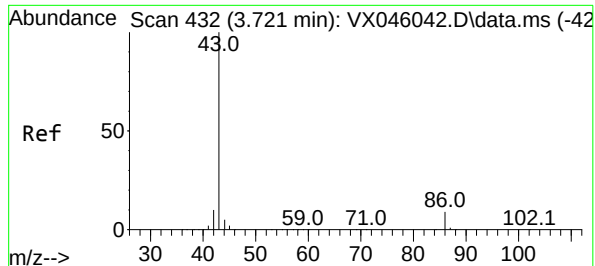
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 20.399 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.012 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 45 Resp: 86178
Ion Ratio Lower Upper
45 100
43 112.6 66.6 100.0#
87 23.6 19.8 29.6
59 10.1 8.6 12.8





#23

Vinyl Acetate

Concen: 94.776 ug/l

RT: 3.733 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 309124

Ion Ratio Lower Upper

43

86

100

9.3

7.5

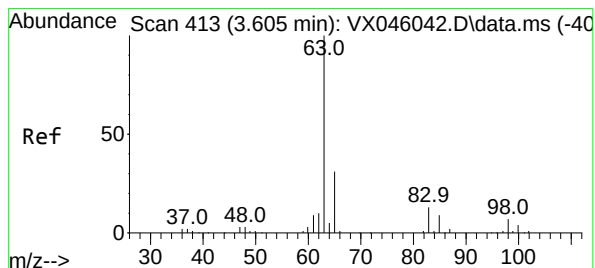
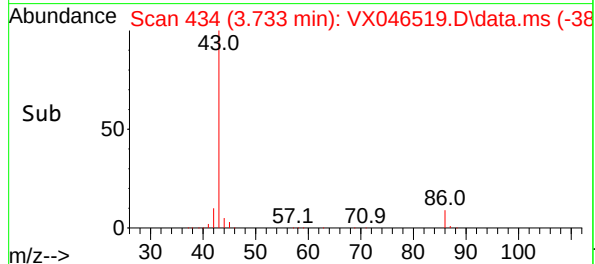
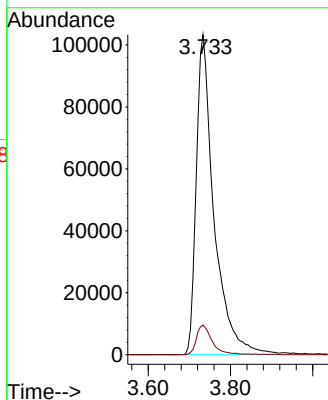
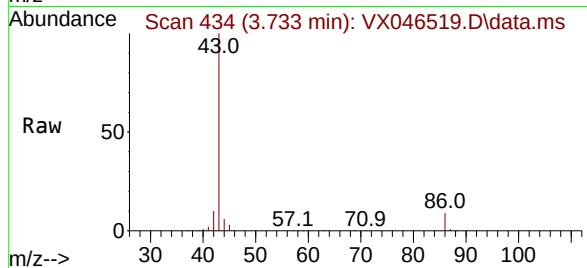
11.3

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#24

1,1-Dichloroethane

Concen: 19.761 ug/l

RT: 3.623 min Scan# 416

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion: 63 Resp: 46528

Ion Ratio Lower Upper

63

98

100

100

6.6

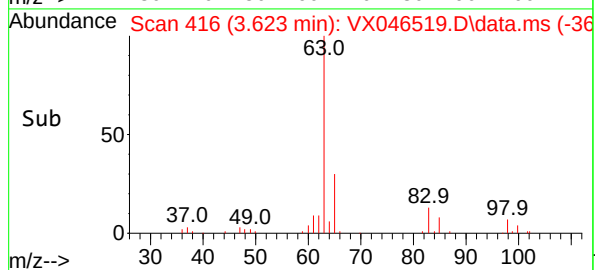
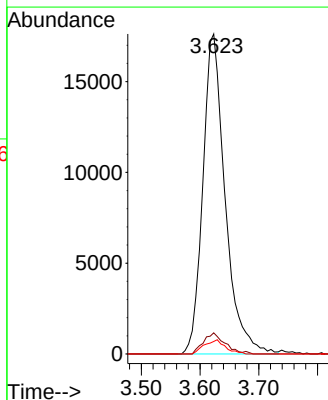
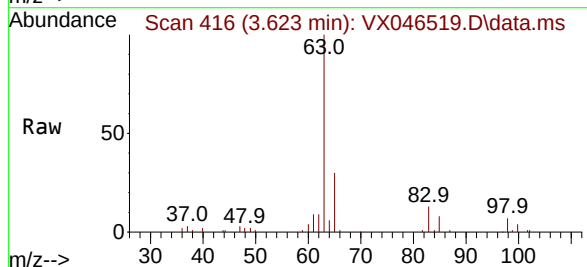
3.6

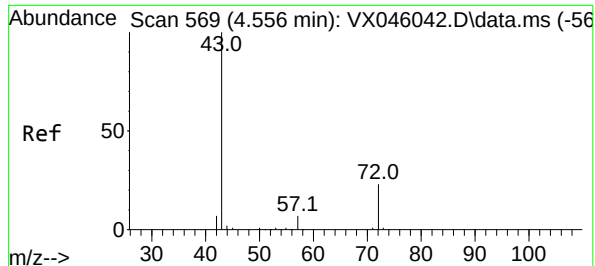
10.8

3.9

2.1

6.3





#25

2-Butanone

Concen: 94.804 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 43 Resp: 8628

Ion Ratio Lower Upper

43 100

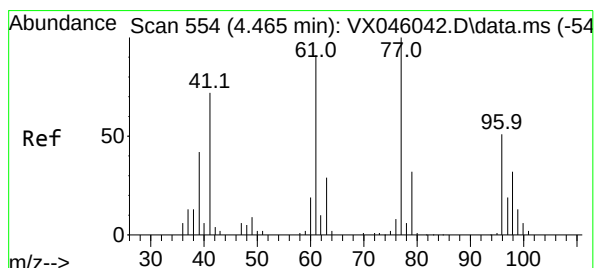
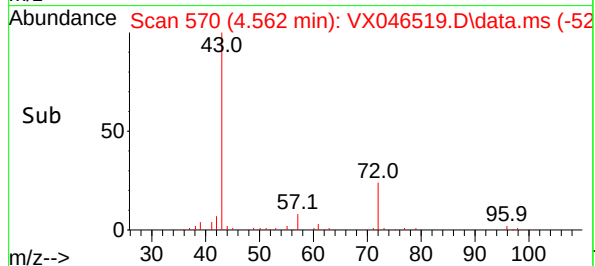
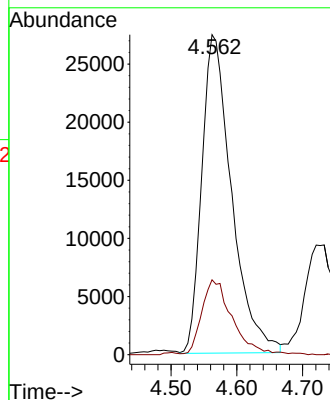
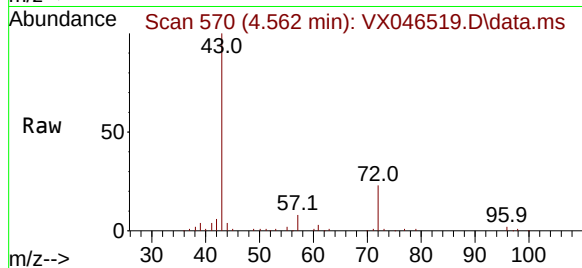
72 23.3 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 19.327 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046519.D

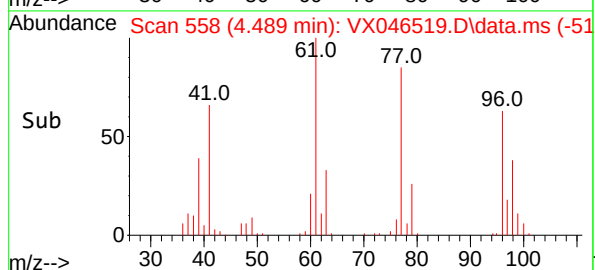
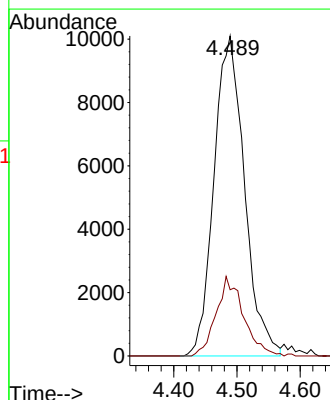
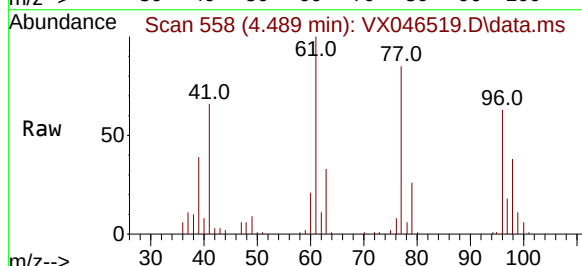
Acq: 06 Jun 2025 10:18

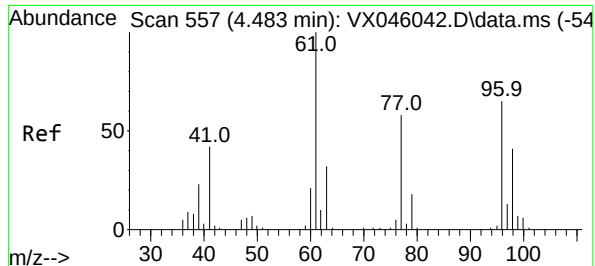
Tgt Ion: 77 Resp: 33782

Ion Ratio Lower Upper

77 100

97 22.3 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 19.439 ug/l

RT: 4.501 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 96 Resp: 2763

Ion Ratio Lower Upper

96 100

61 157.3 0.0 322.8

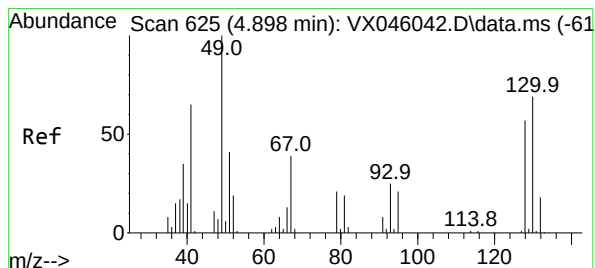
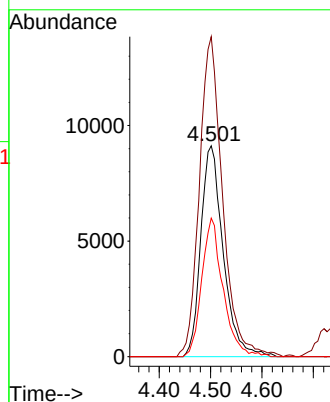
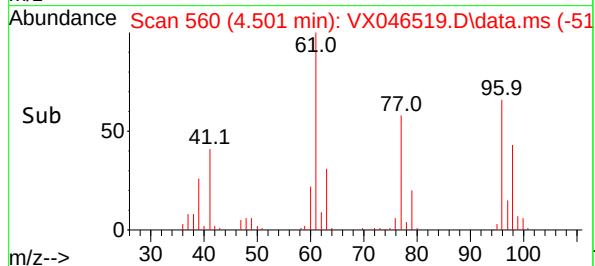
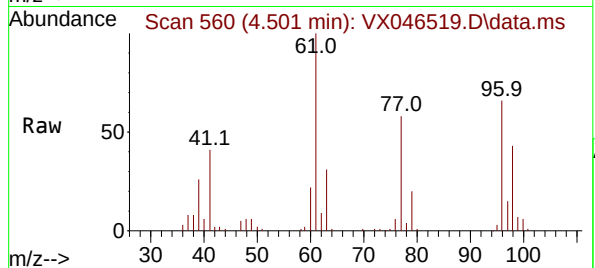
98 62.4 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 19.371 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

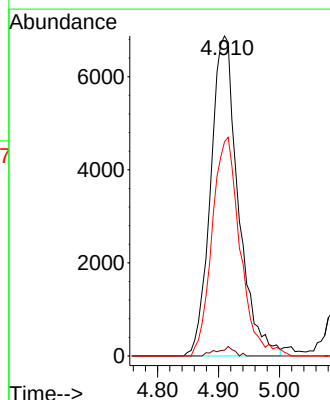
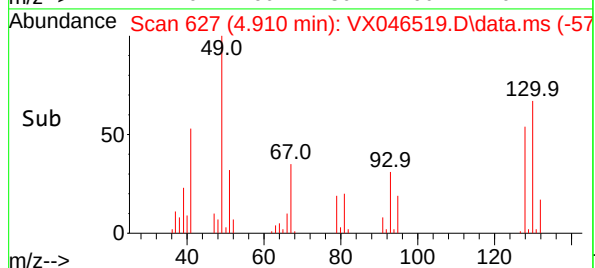
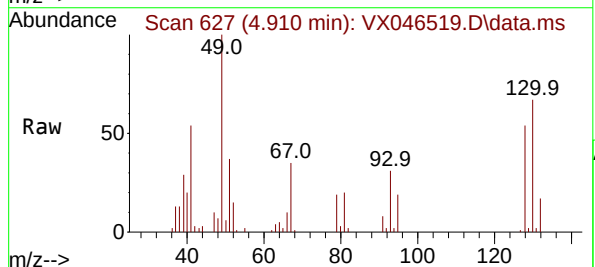
Tgt Ion: 49 Resp: 21754

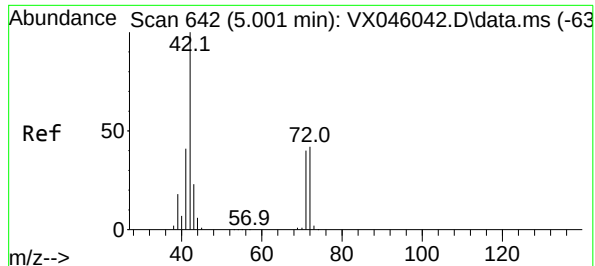
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 69.0 56.2 84.2





#29

Tetrahydrofuran

Concen: 93.158 ug/l

RT: 5.013 min Scan# 642

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

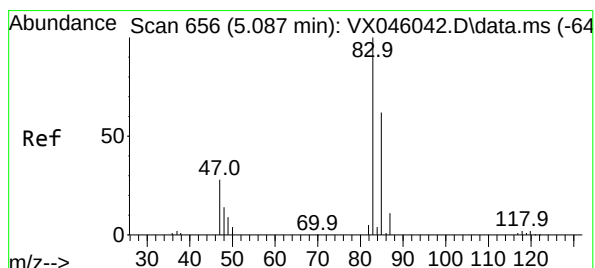
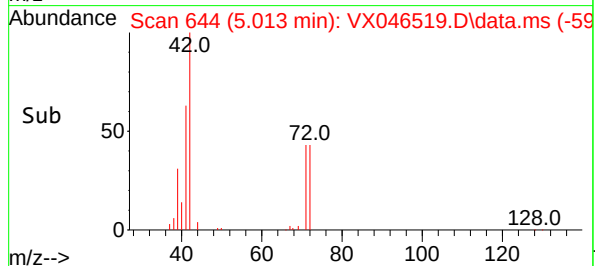
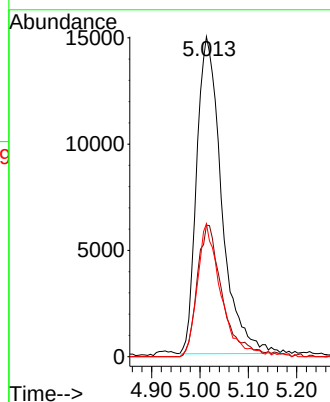
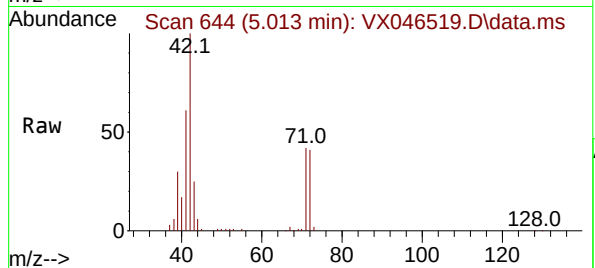
Tgt Ion:	42	Resp:	5354
Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.7	50.5
71	39.3	31.4	47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 20.208 ug/l

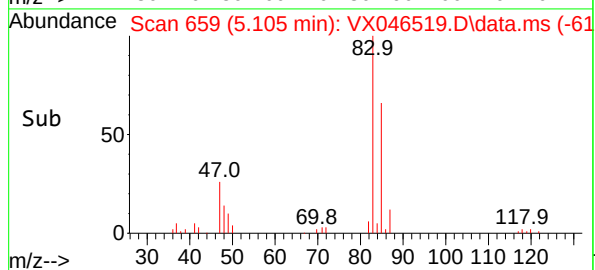
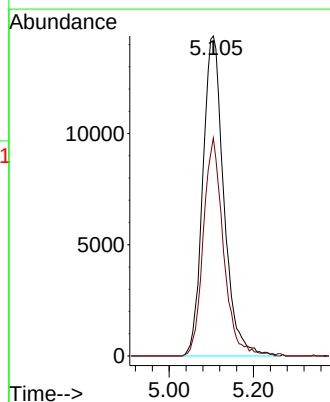
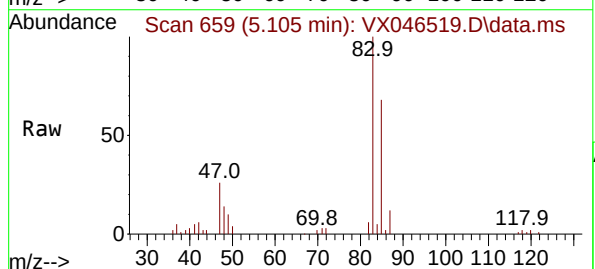
RT: 5.105 min Scan# 659

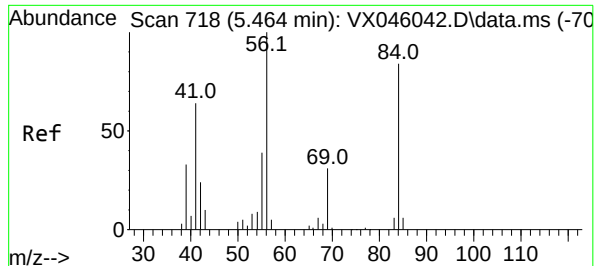
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	83	Resp:	49854
Ion	Ratio	Lower	Upper
83	100		
85	68.1	49.3	73.9





#31

Cyclohexane

Concen: 19.565 ug/l

RT: 5.483 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 56 Resp: 3718

Ion Ratio Lower Upper

56 100

69 30.3 24.4 36.6

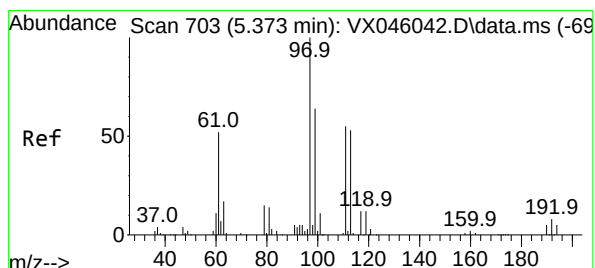
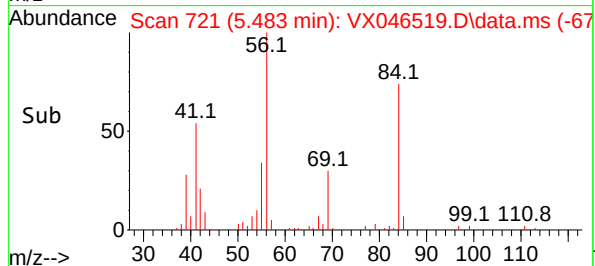
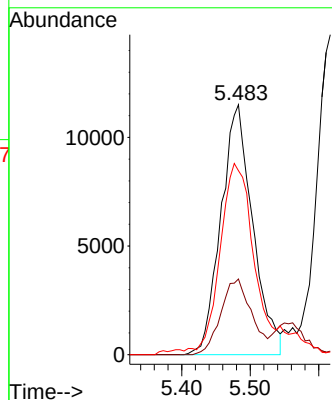
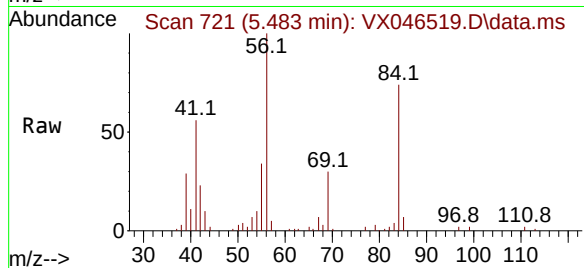
84 71.7 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 19.705 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

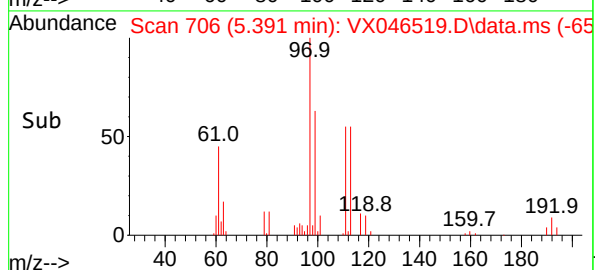
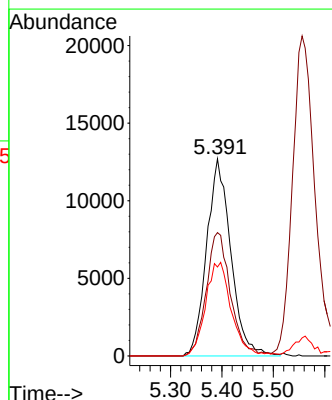
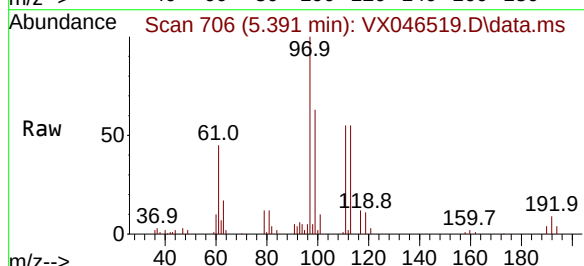
Tgt Ion: 97 Resp: 41583

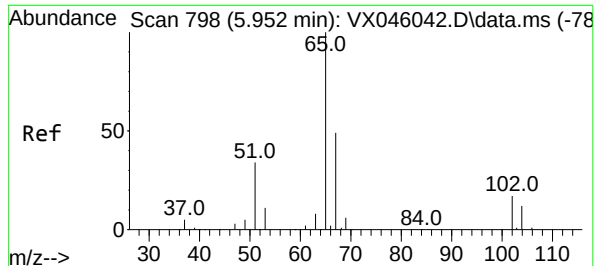
Ion Ratio Lower Upper

97 100

99 63.1 51.8 77.6

61 50.8 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 19.069 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 65 Resp: 3117

Ion Ratio Lower Upper

65 100

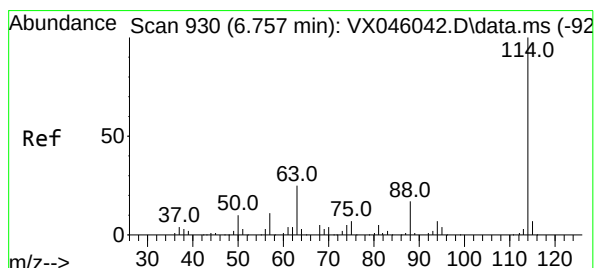
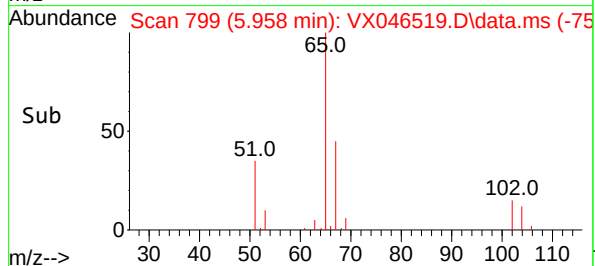
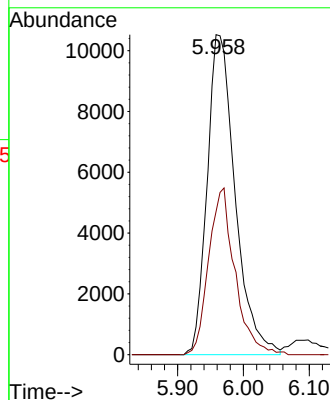
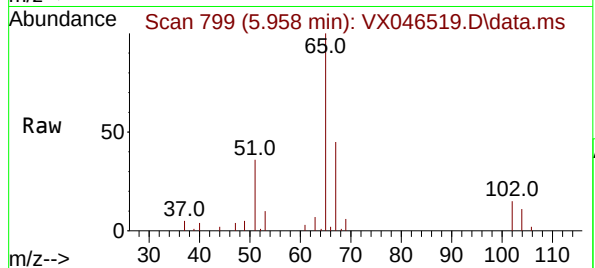
67 48.9 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

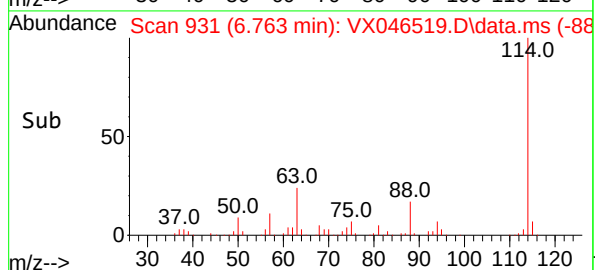
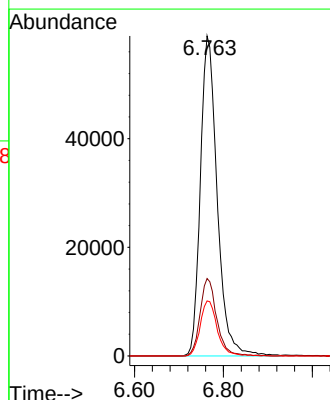
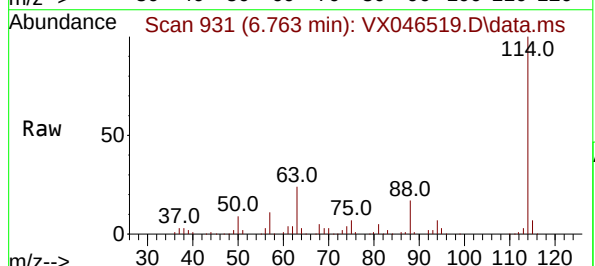
Tgt Ion:114 Resp: 155168

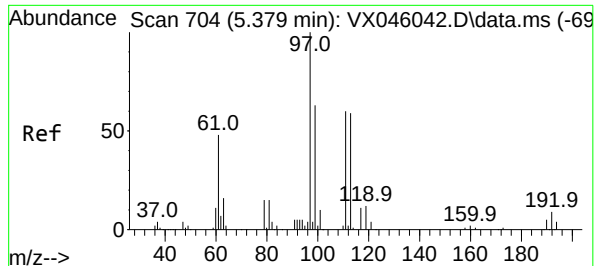
Ion Ratio Lower Upper

114 100

63 24.2 0.0 49.2

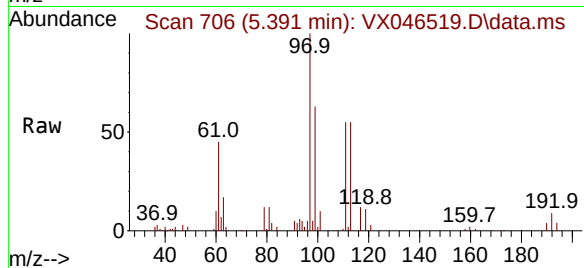
88 17.2 0.0 33.6





#35
Dibromofluoromethane
Concen: 19.203 ug/l
RT: 5.391 min Scan# 704
Delta R.T. -0.012 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

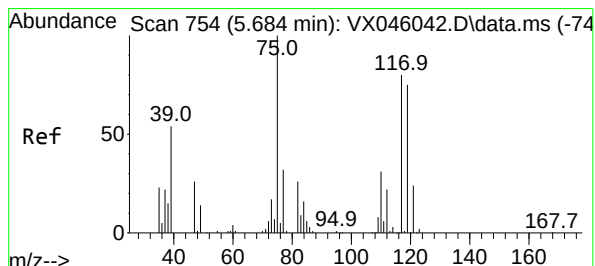
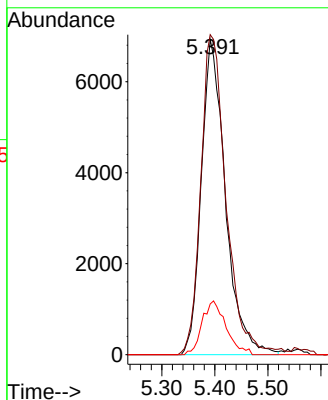
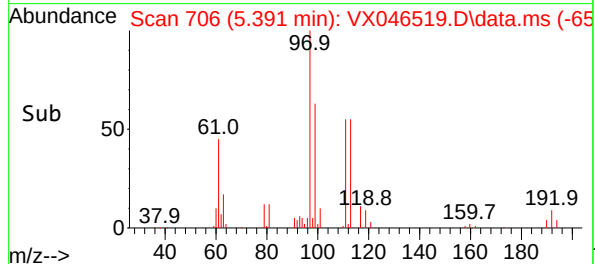
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 113 Resp: 2191
Ion Ratio Lower Upper
113 100
111 106.4 83.1 124.7
192 16.9 13.3 19.9

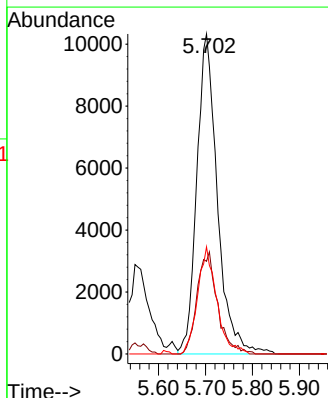
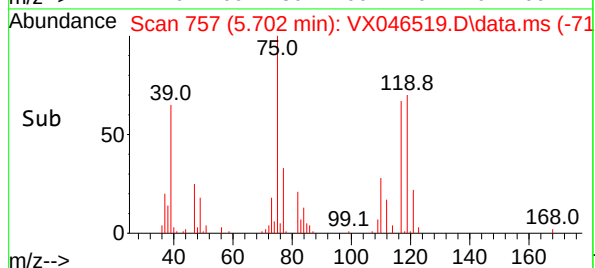
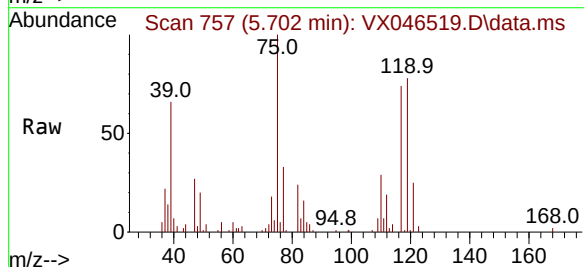
Manual Integrations
APPROVED

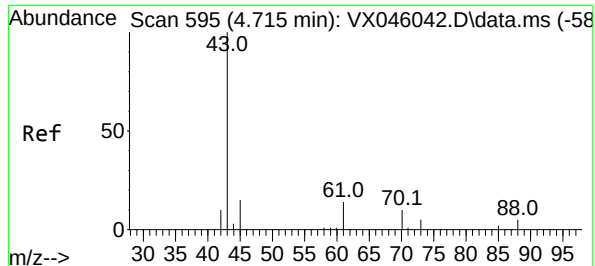
Reviewed By : John Carbone 06/06/2025
Supervised By : Mahesh Dadoda 06/09/2025



#36
1,1-Dichloropropene
Concen: 19.262 ug/l
RT: 5.702 min Scan# 757
Delta R.T. -0.012 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

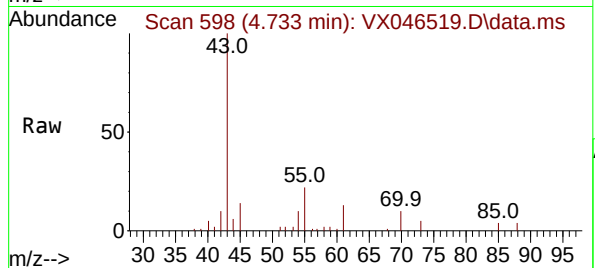
Tgt Ion: 75 Resp: 31397
Ion Ratio Lower Upper
75 100
110 31.7 16.3 48.9
77 31.0 24.3 36.5





#37
Ethyl Acetate
Concen: 20.357 ug/l
RT: 4.733 min Scan# 598
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

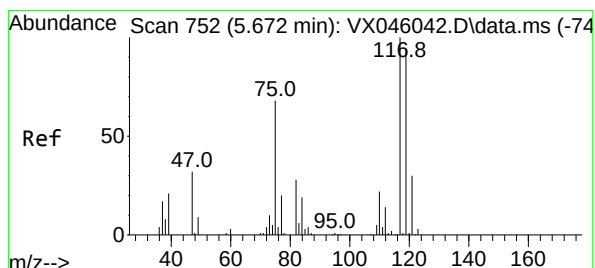
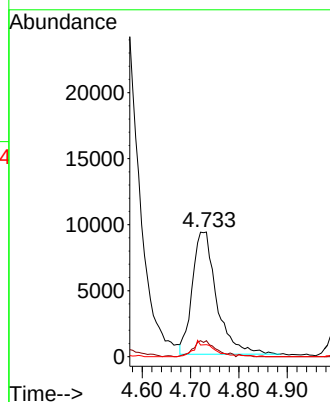
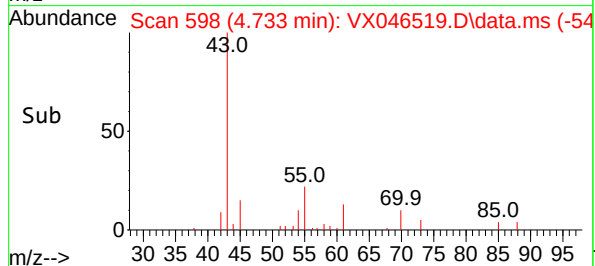
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 43 Resp: 32379
Ion Ratio Lower Upper
43 100
61 11.9 10.3 15.5
70 10.6 7.9 11.9

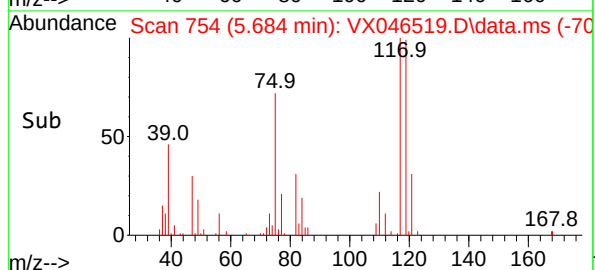
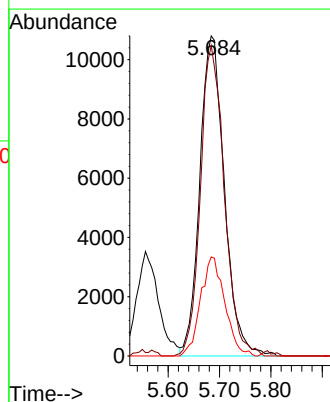
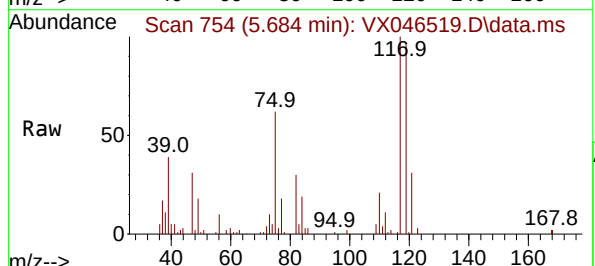
Manual Integrations
APPROVED

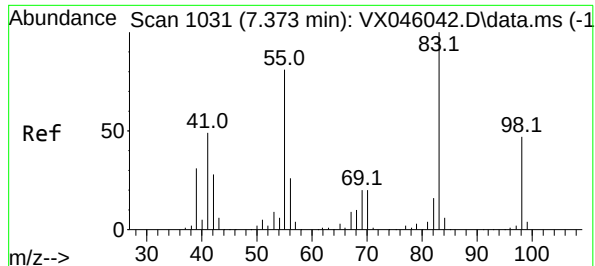
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#38
Carbon Tetrachloride
Concen: 19.695 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.012 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:117 Resp: 35956
Ion Ratio Lower Upper
117 100
119 96.5 75.2 112.8
121 31.0 24.2 36.4





#39

Methylcyclohexane

Concen: 18.571 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

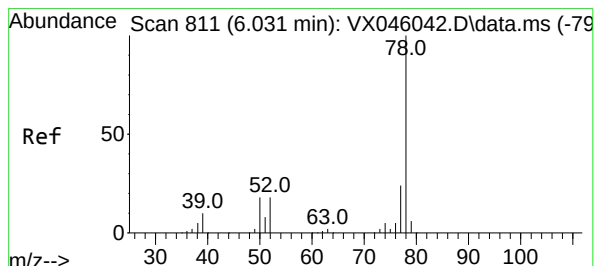
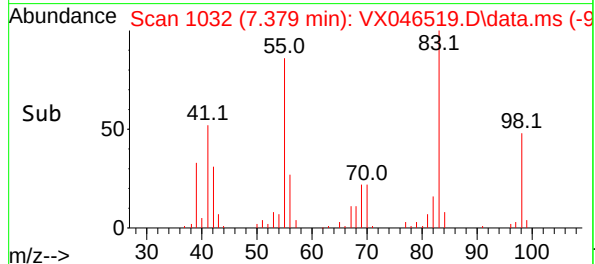
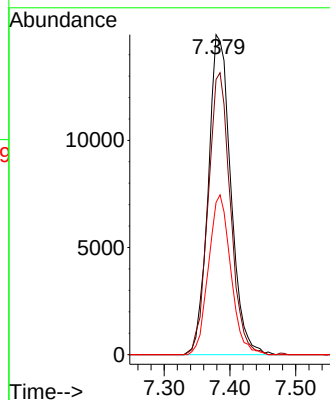
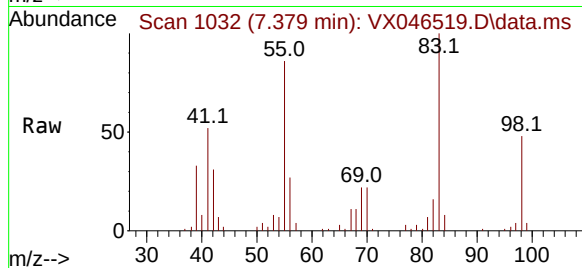
Tgt Ion:	83	Resp:	35729
Ion	Ratio	Lower	Upper
83	100		
55	86.0	64.7	97.1
98	47.6	37.4	56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 20.336 ug/l

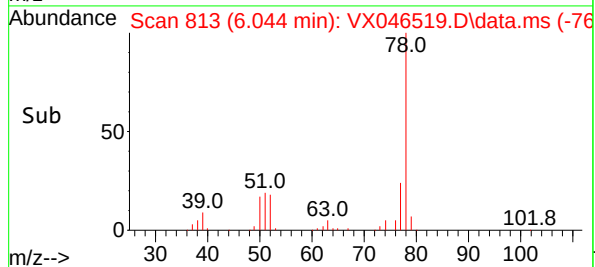
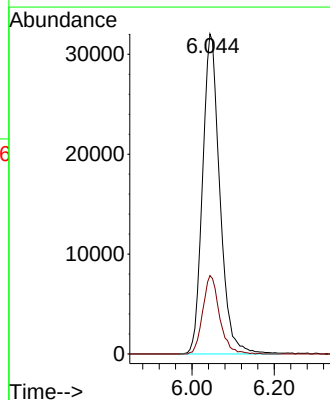
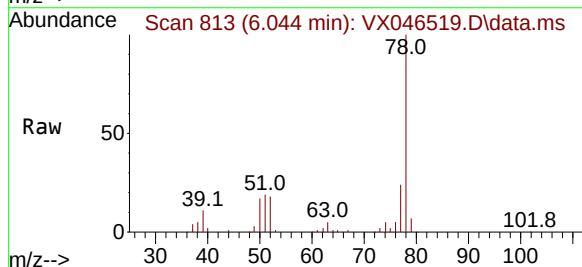
RT: 6.044 min Scan# 813

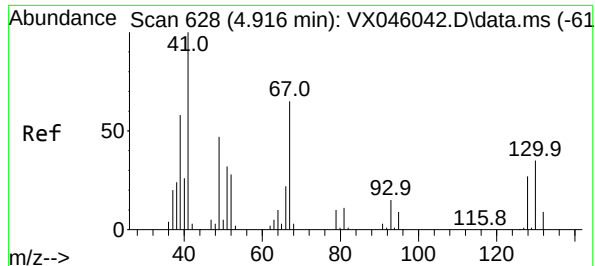
Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

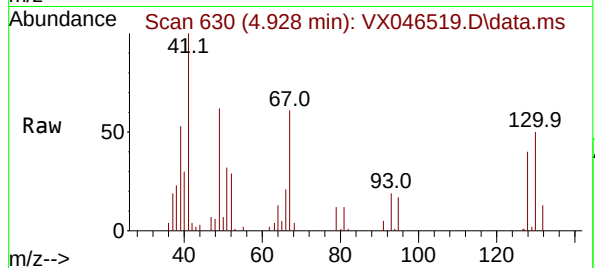
Tgt Ion:	78	Resp:	93317
Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.0	28.4





#41
Methacrylonitrile
Concen: 21.027 ug/l
RT: 4.928 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

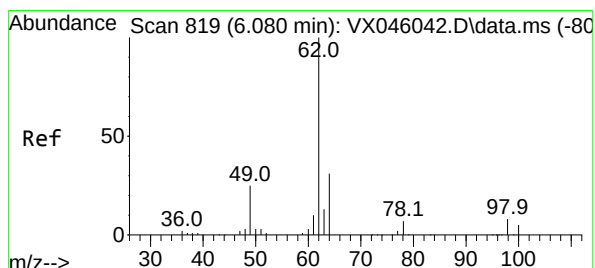
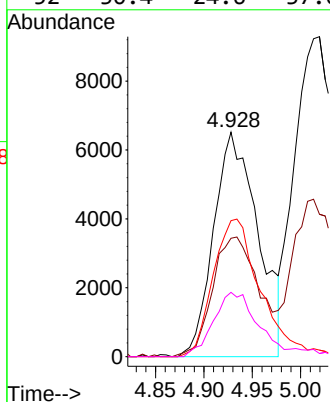
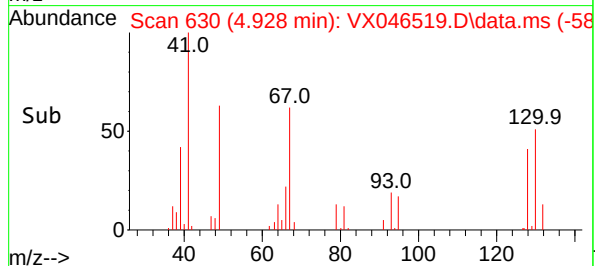
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 41 Resp: 2077
Ion Ratio Lower Upper
41 100
39 54.6 47.2 70.8
67 65.5 50.7 76.1
52 30.4 24.6 37.0

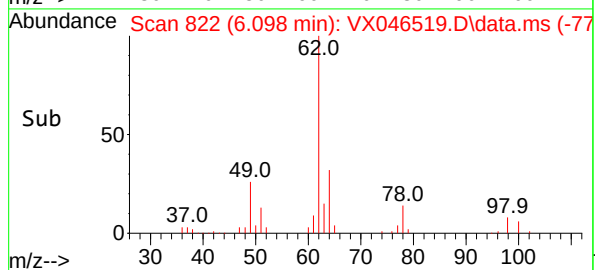
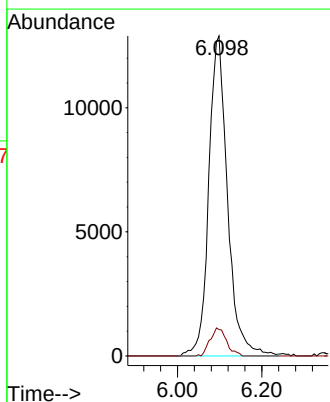
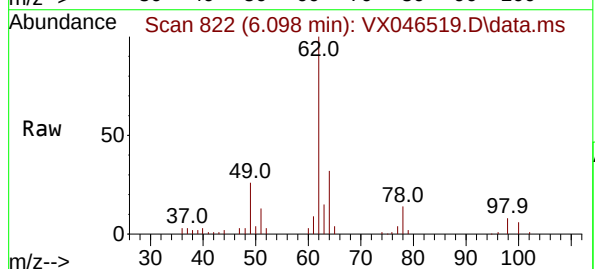
Manual Integrations
APPROVED

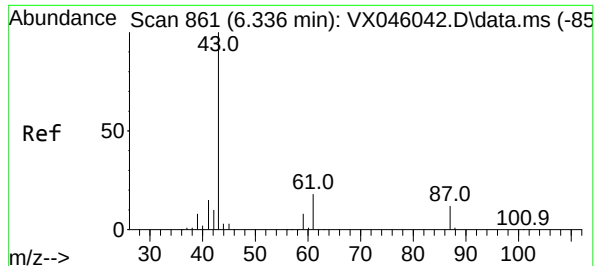
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 20.832 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 62 Resp: 39768
Ion Ratio Lower Upper
62 100
98 7.7 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.851 ug/l

RT: 6.342 min Scan# 862

Delta R.T. -0.012 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

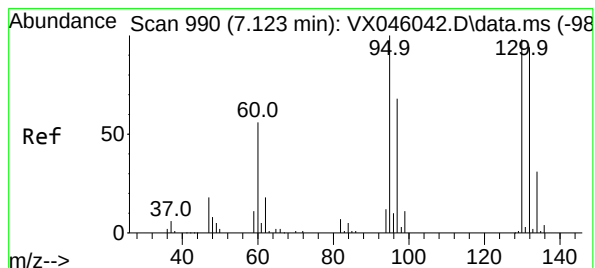
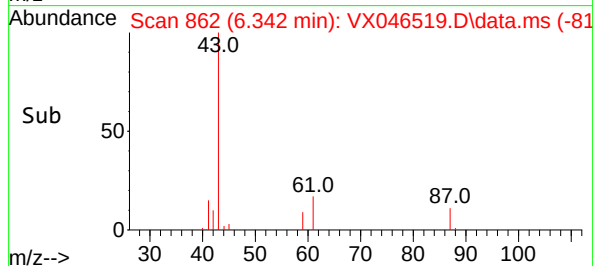
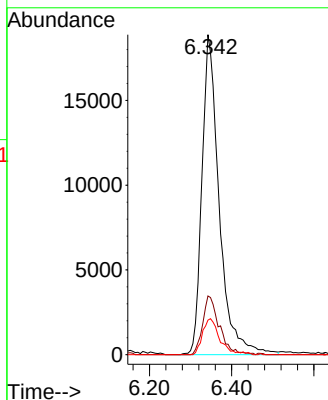
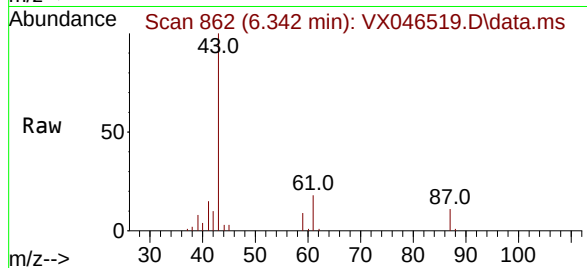
Tgt Ion: 43	Resp: 55054
Ion Ratio	Lower Upper
43	100
61	17.6 14.3 21.5
87	11.2 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 18.950 ug/l

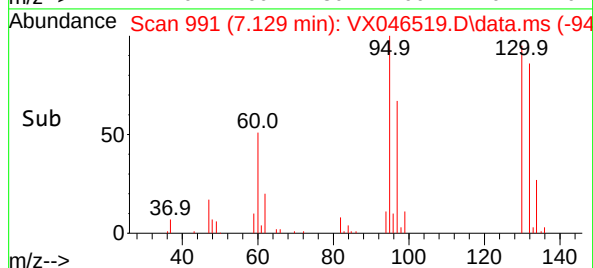
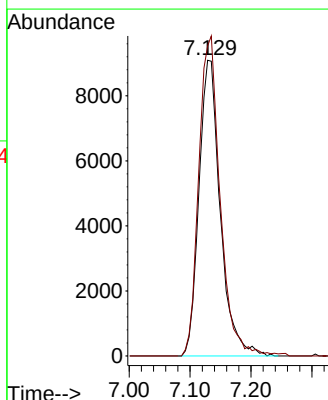
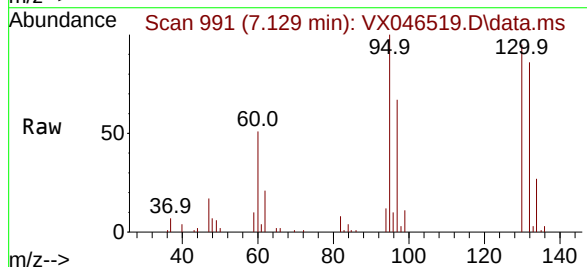
RT: 7.129 min Scan# 991

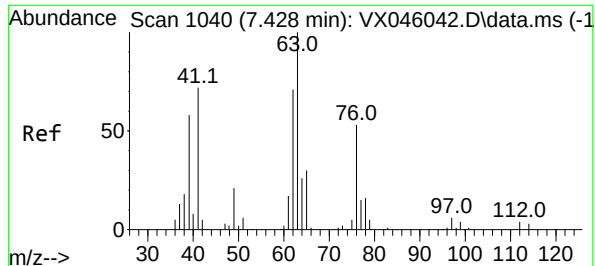
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:130	Resp: 22094
Ion Ratio	Lower Upper
130	100
95	104.9 0.0 204.2





#45

1,2-Dichloropropane

Concen: 20.760 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 63 Resp: 2458

Ion Ratio Lower Upper

63 100

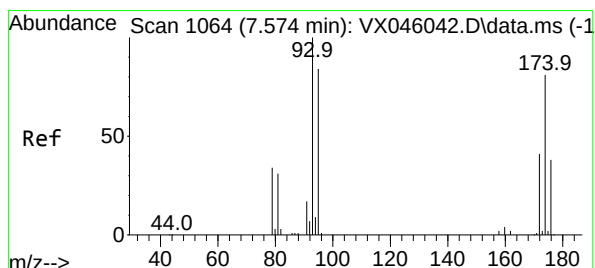
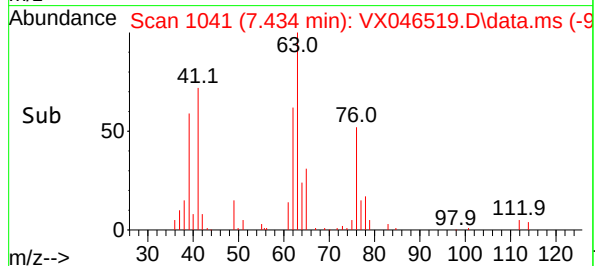
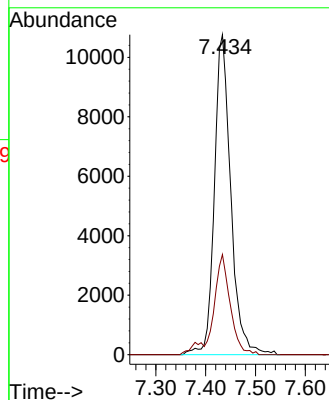
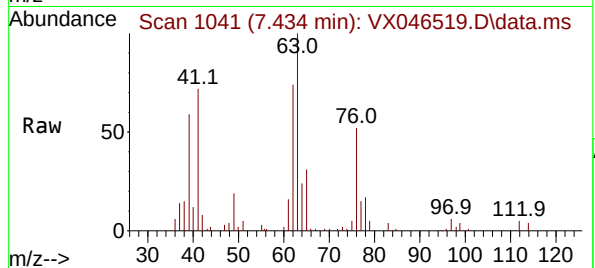
65 31.3 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 19.924 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

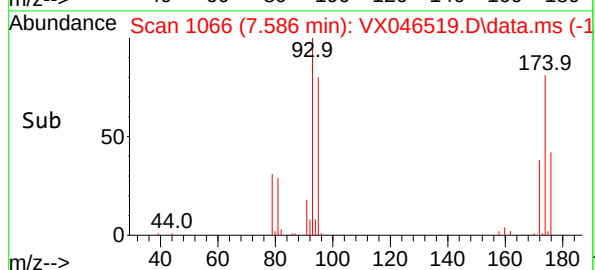
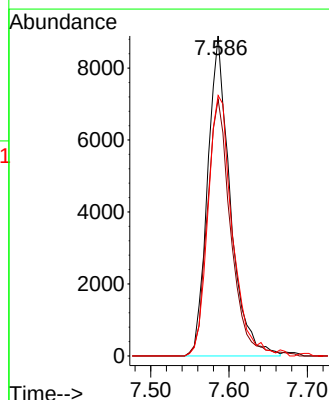
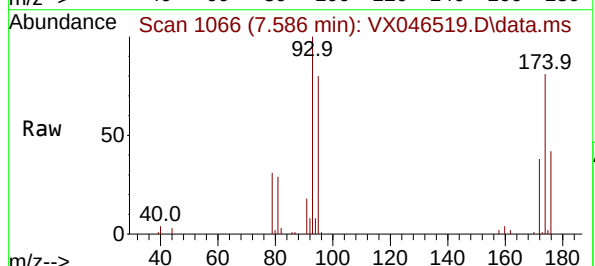
Tgt Ion: 93 Resp: 17753

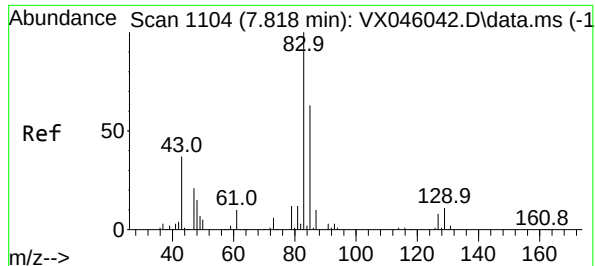
Ion Ratio Lower Upper

93 100

95 83.7 65.6 98.4

174 88.4 68.2 102.2





#47

Bromodichloromethane

Concen: 20.919 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

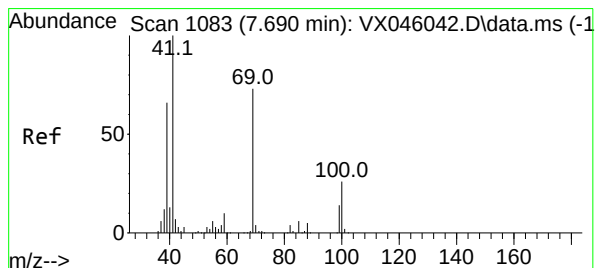
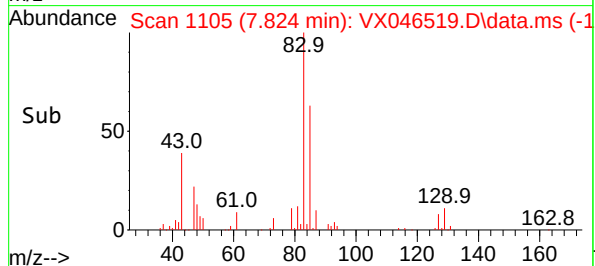
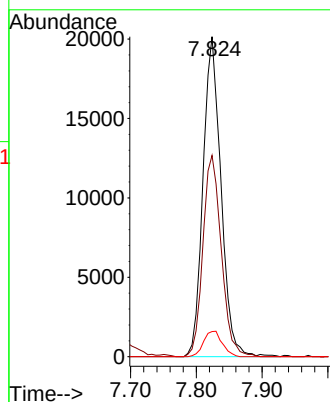
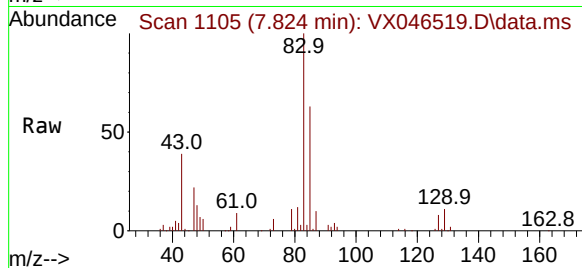
Tgt Ion:	83	Resp:	3832
Ion	Ratio	Lower	Upper
83	100		
85	62.9	50.5	75.7
127	7.9	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 19.755 ug/l

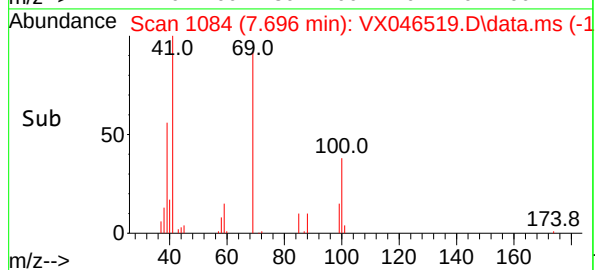
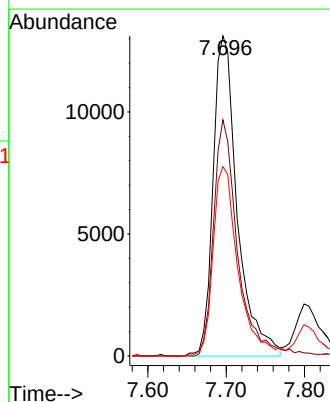
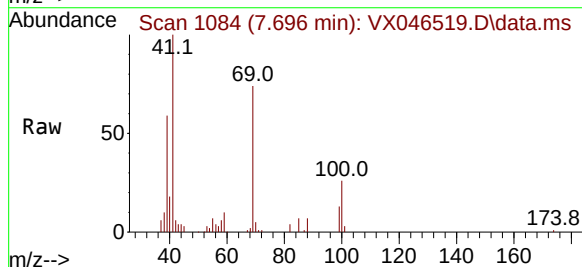
RT: 7.696 min Scan# 1084

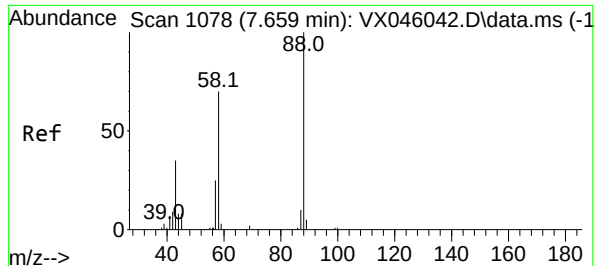
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion:	41	Resp:	28189
Ion	Ratio	Lower	Upper
41	100		
69	73.6	58.5	87.7
39	61.4	51.7	77.5





#49

1,4-Dioxane

Concen: 425.896 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

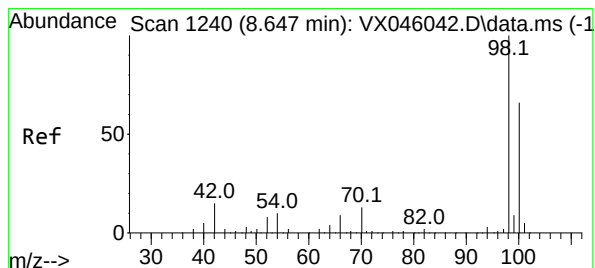
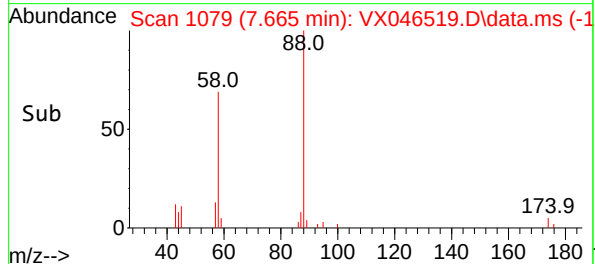
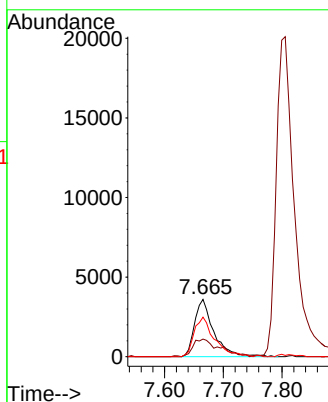
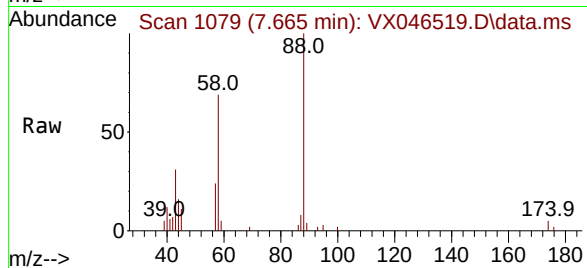
Tgt Ion	Ratio	Lower	Upper
88	100		
43	42.6	33.4	50.2
58	73.5	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 19.116 ug/l

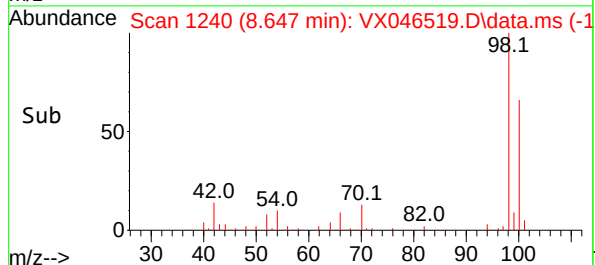
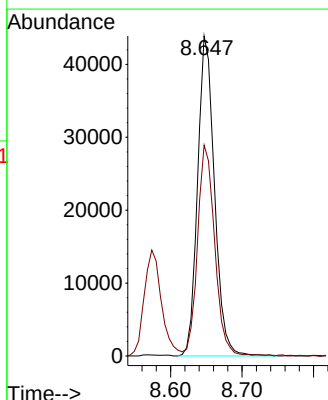
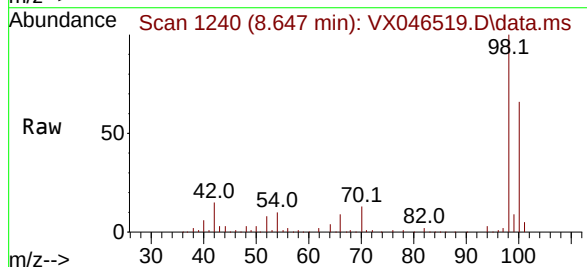
RT: 8.647 min Scan# 1240

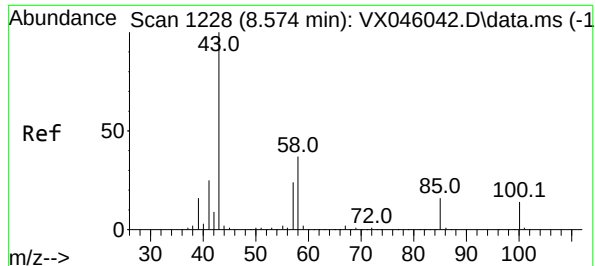
Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Tgt Ion	Ratio	Lower	Upper
98	100		
100	67.1	53.5	80.3





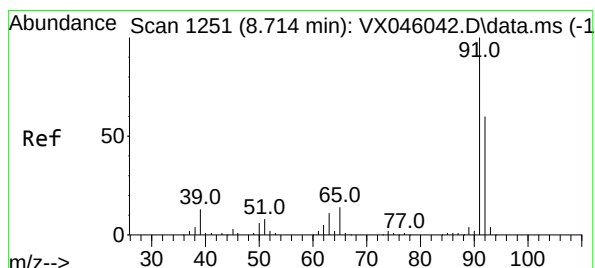
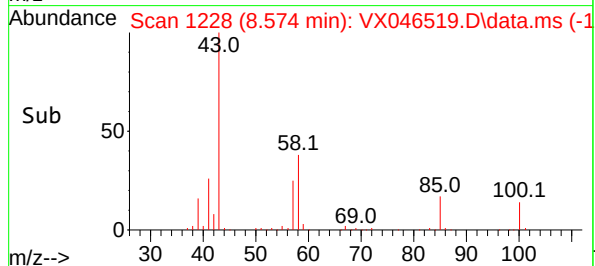
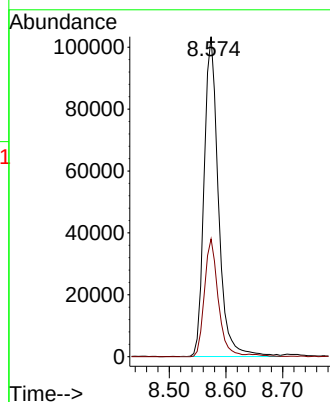
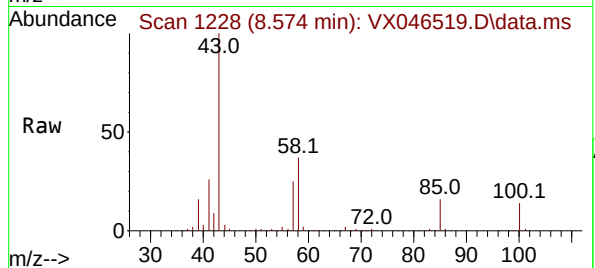
#51
4-Methyl-2-Pentanone
Concen: 102.687 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 43 Resp: 180974
Ion Ratio Lower Upper
43 100
58 35.4 28.9 43.3

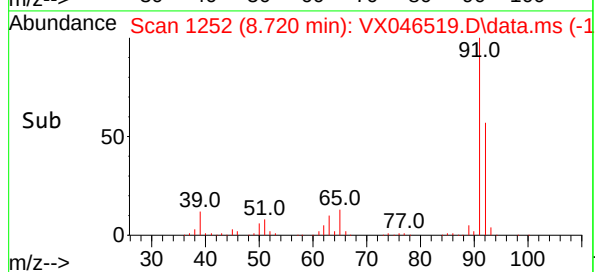
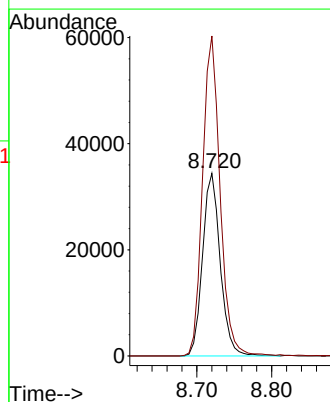
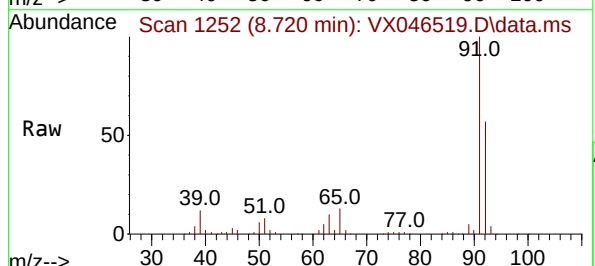
Manual Integrations
APPROVED

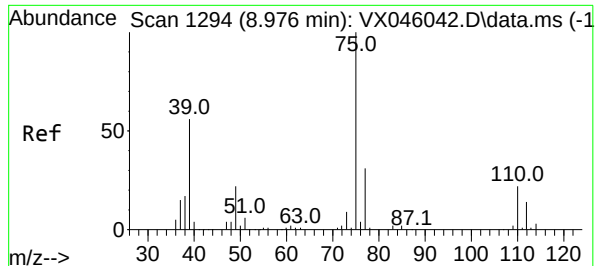
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 20.055 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 92 Resp: 56537
Ion Ratio Lower Upper
92 100
91 173.4 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.817 ug/l

RT: 8.976 min Scan# 1195

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 75 Resp: 3255

Ion Ratio Lower Upper

75 100

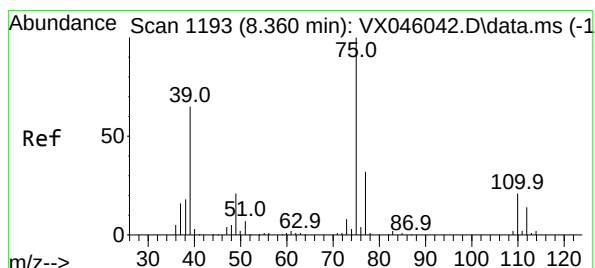
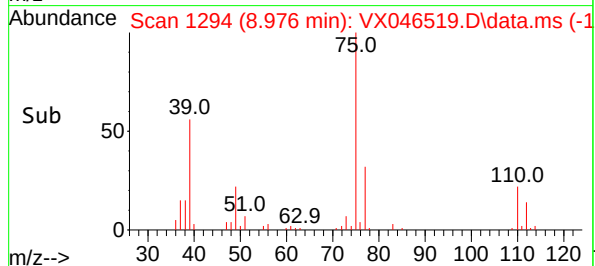
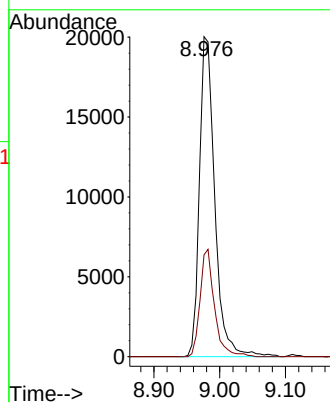
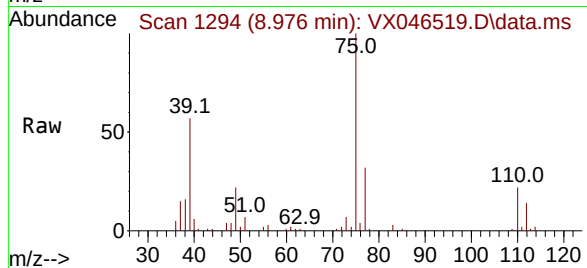
77 31.8 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 19.716 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

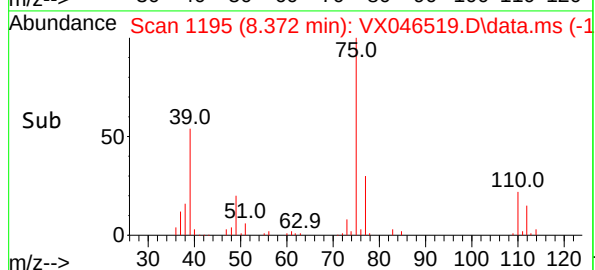
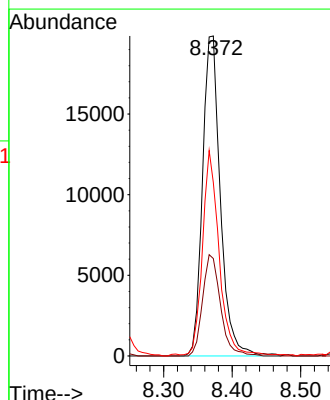
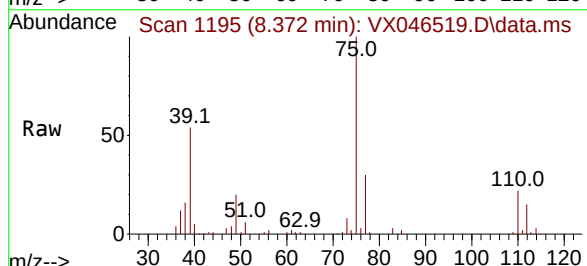
Tgt Ion: 75 Resp: 36009

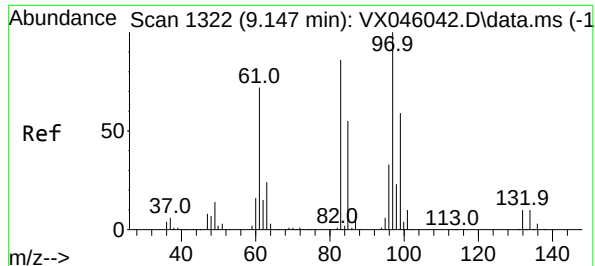
Ion Ratio Lower Upper

75 100

77 30.4 25.4 38.0

39 53.8 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 21.322 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 97 Resp: 24130

Ion Ratio Lower Upper

97 100

83 89.2 69.0 103.6

85 55.8 44.3 66.5

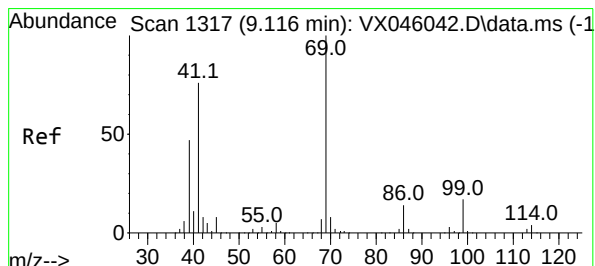
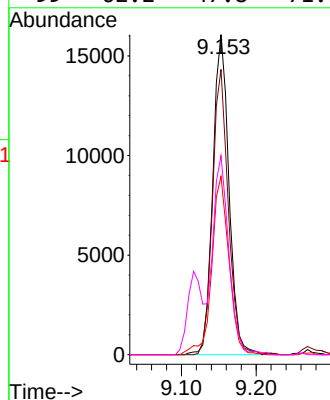
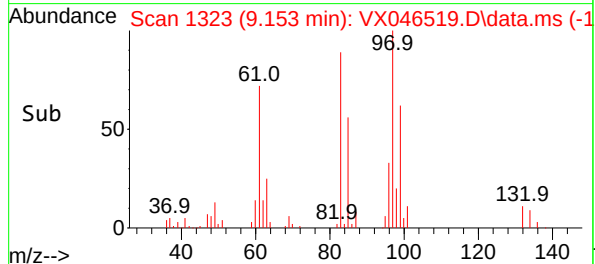
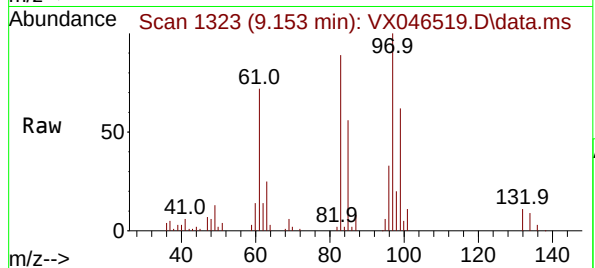
99 62.2 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 20.176 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

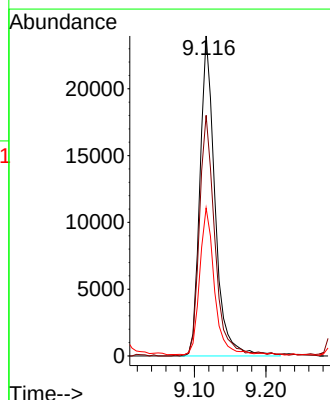
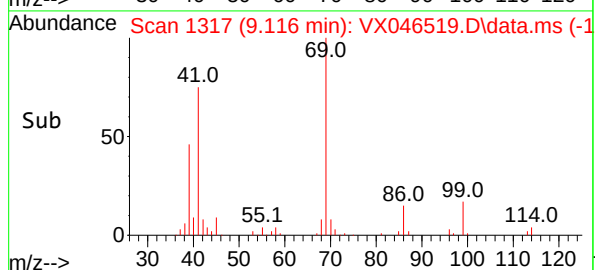
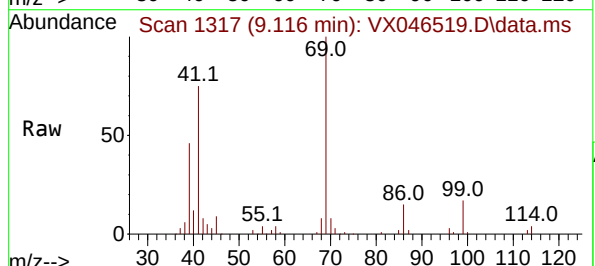
Tgt Ion: 69 Resp: 35137

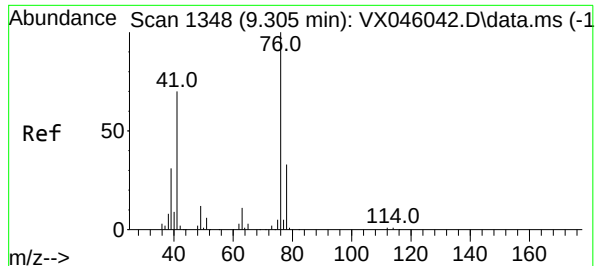
Ion Ratio Lower Upper

69 100

41 76.4 60.8 91.2

39 44.2 39.0 58.6





#57

1,3-Dichloropropane

Concen: 20.653 ug/l

RT: 9.305 min Scan# 1174

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 76 Resp: 41300

Ion Ratio Lower Upper

76 100

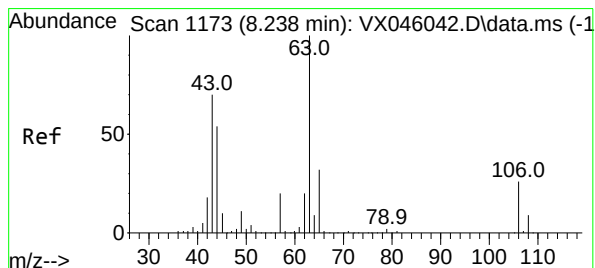
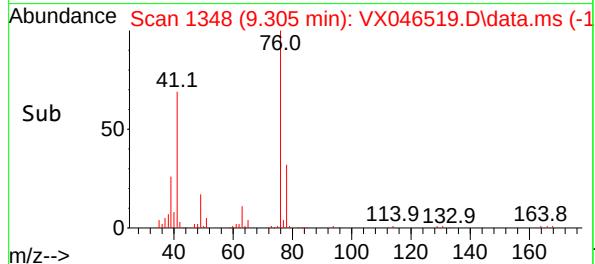
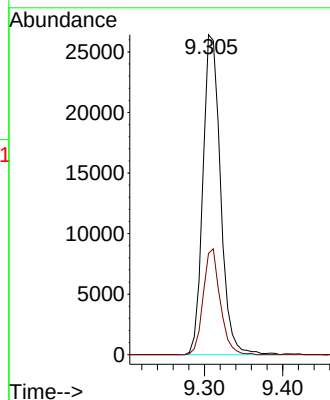
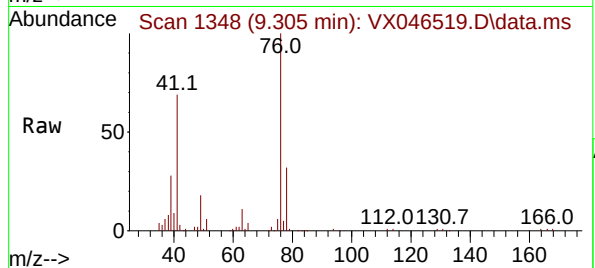
78 31.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 98.650 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046519.D

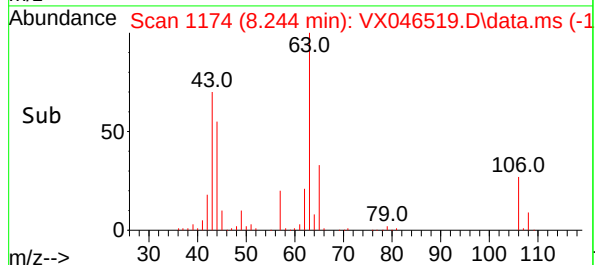
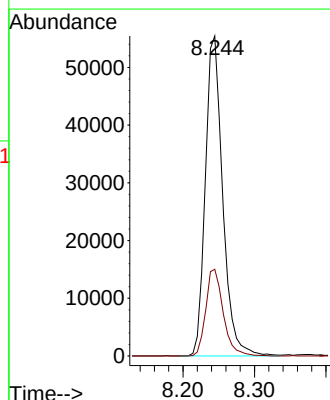
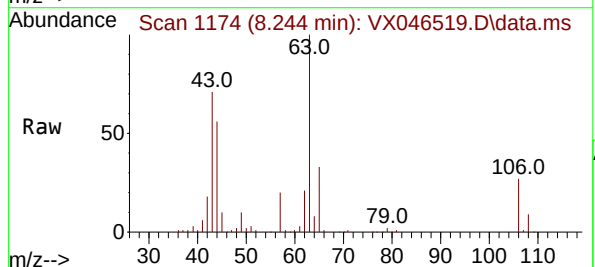
Acq: 06 Jun 2025 10:18

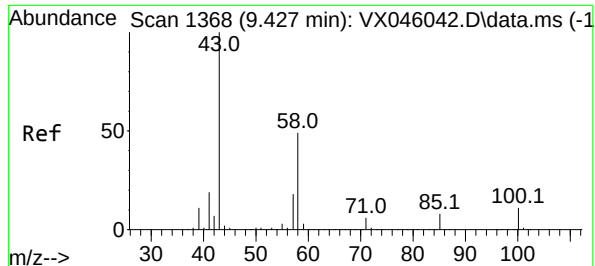
Tgt Ion: 63 Resp: 93580

Ion Ratio Lower Upper

63 100

106 27.3 21.5 32.3





#59

2-Hexanone

Concen: 102.032 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 43 Resp: 128964

Ion Ratio Lower Upper

43 100

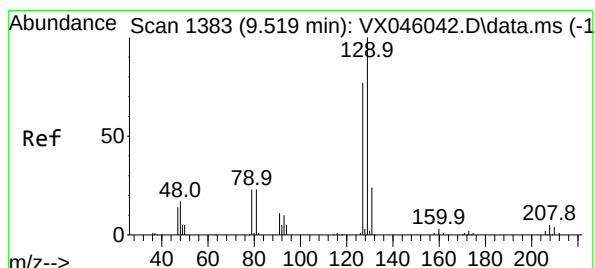
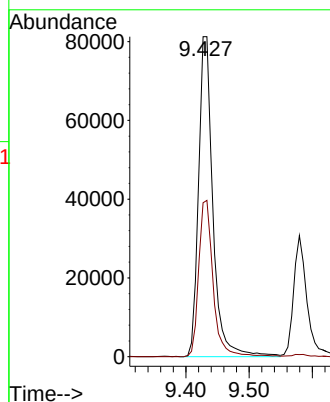
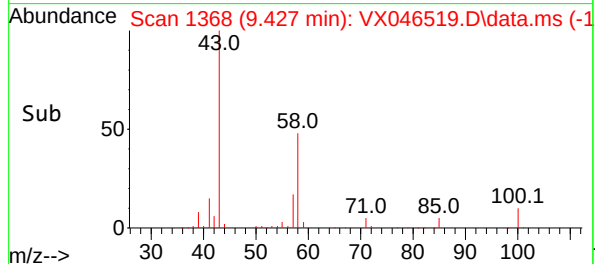
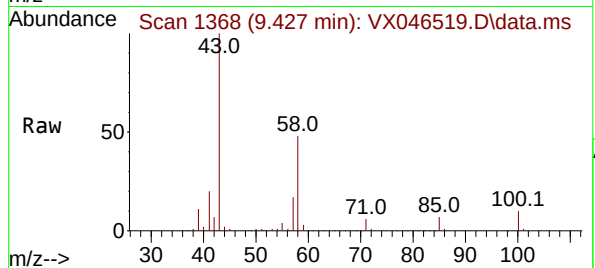
58 49.1 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 20.414 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046519.D

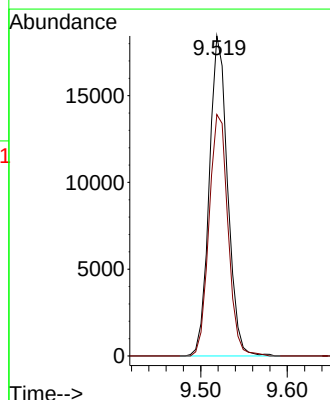
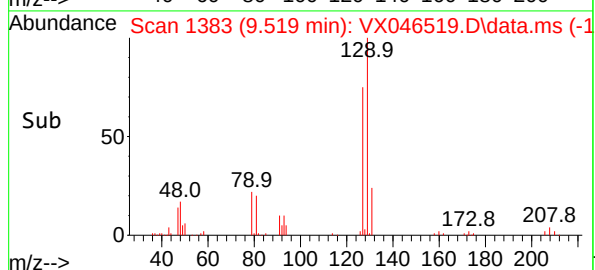
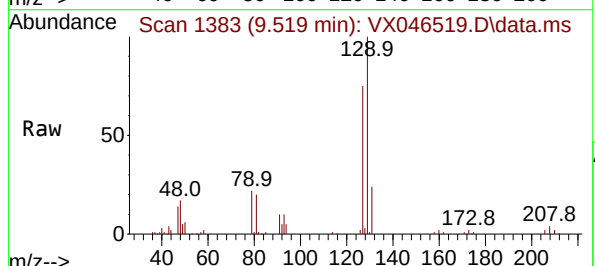
Acq: 06 Jun 2025 10:18

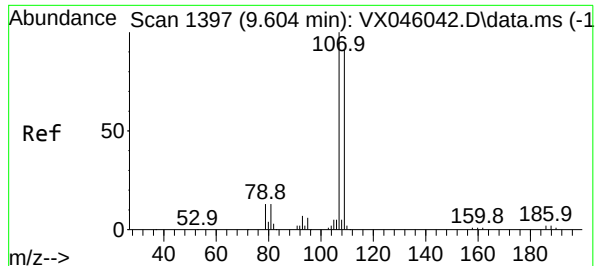
Tgt Ion:129 Resp: 27175

Ion Ratio Lower Upper

129 100

127 77.8 39.3 117.8





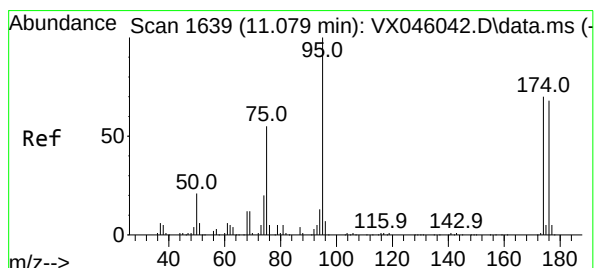
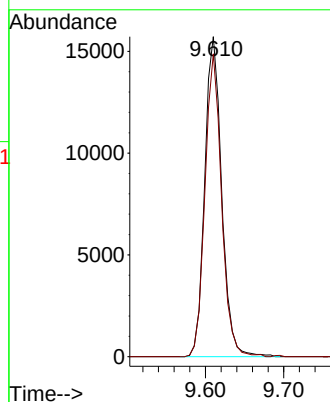
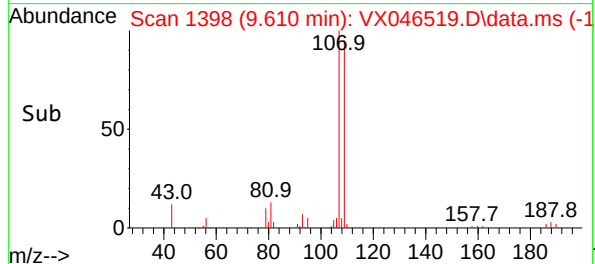
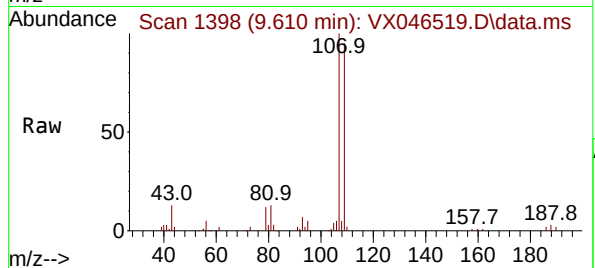
#61
1,2-Dibromoethane
Concen: 19.996 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:107 Resp: 2358
Ion Ratio Lower Upper
107 100
109 92.7 73.3 109.9

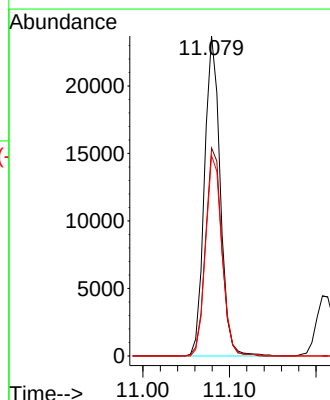
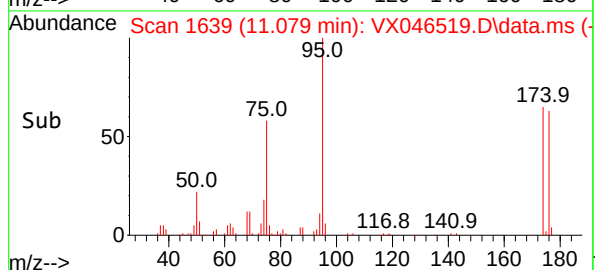
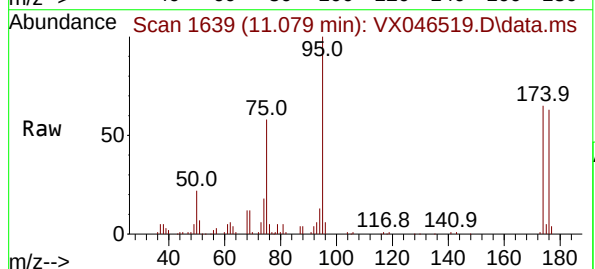
Manual Integrations
APPROVED

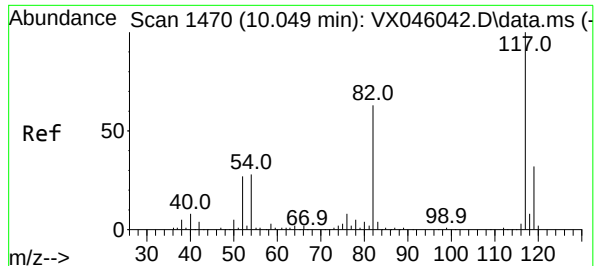
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 19.224 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

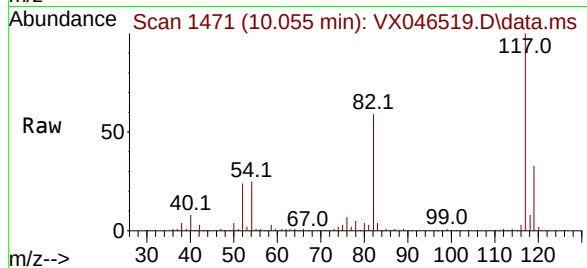
Tgt Ion: 95 Resp: 29923
Ion Ratio Lower Upper
95 100
174 67.2 0.0 135.8
176 65.0 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

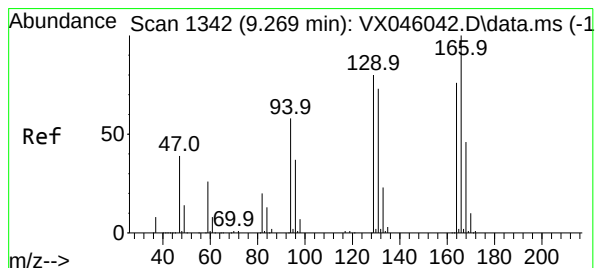
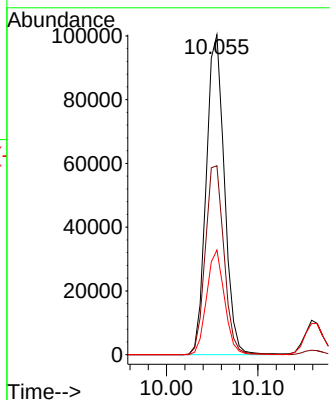
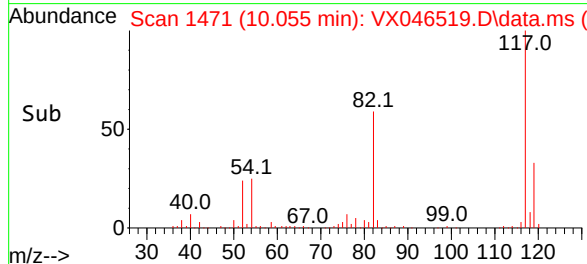
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:117 Resp: 13817
Ion Ratio Lower Upper
117 100
82 59.0 50.6 76.0
119 32.7 25.8 38.6

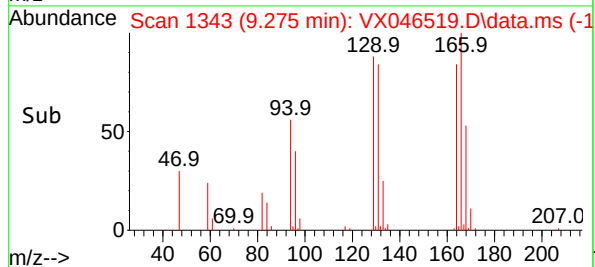
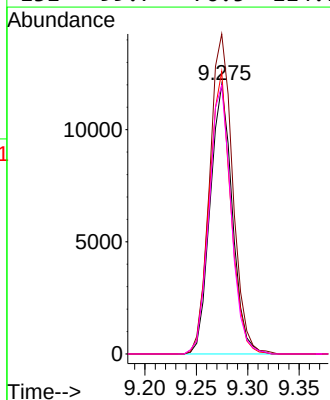
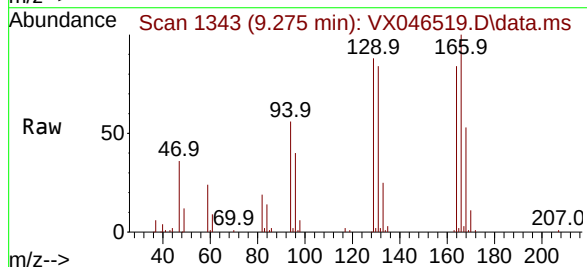
Manual Integrations
APPROVED

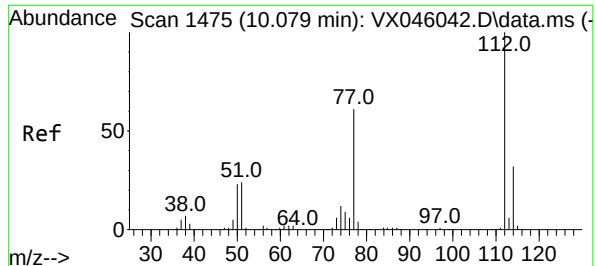
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 19.362 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:164 Resp: 17890
Ion Ratio Lower Upper
164 100
166 118.7 105.0 157.6
129 104.8 83.5 125.3
131 99.7 76.5 114.7





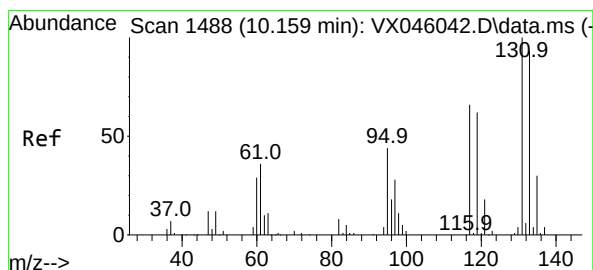
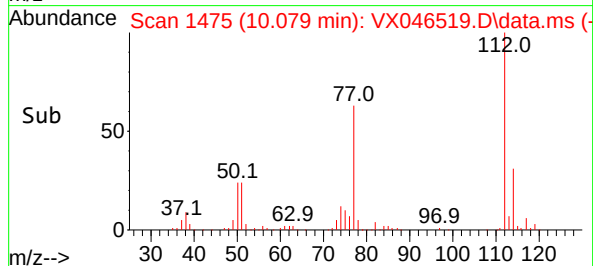
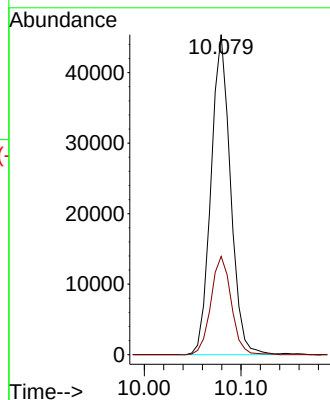
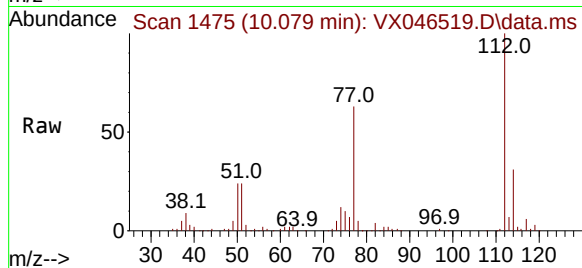
#65
Chlorobenzene
Concen: 19.600 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:112 Resp: 6369
Ion Ratio Lower Upper
112 100
114 30.7 25.4 38.2

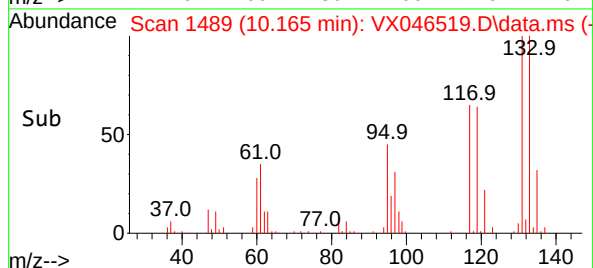
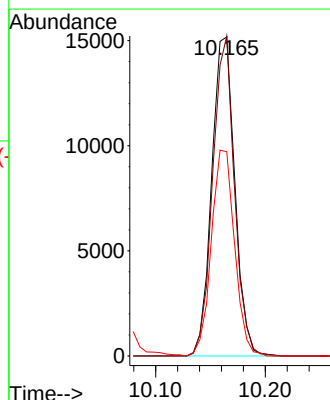
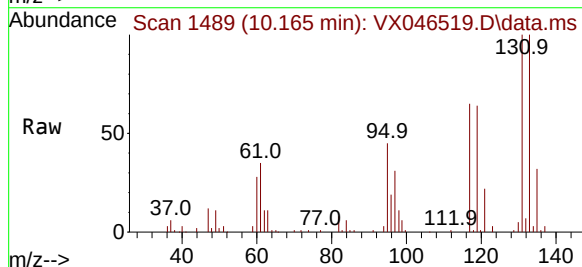
Manual Integrations
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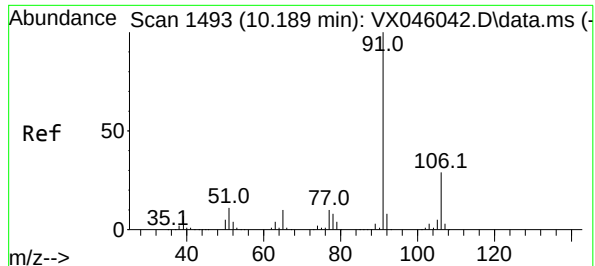
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.205 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:131 Resp: 22188
Ion Ratio Lower Upper
131 100
133 94.4 47.3 141.9
119 64.9 31.6 95.0





#67

Ethyl Benzene

Concen: 19.765 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion: 91 Resp: 11212

Ion Ratio Lower Upper

91 100

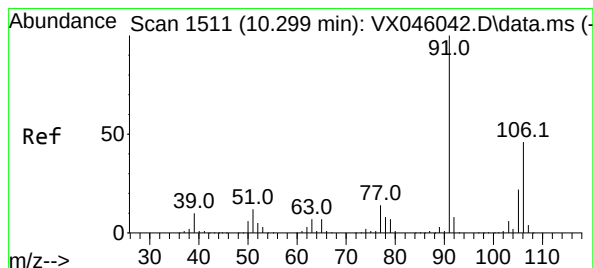
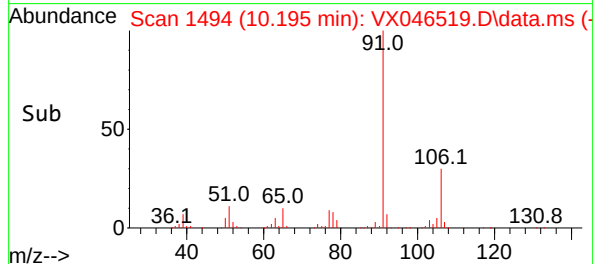
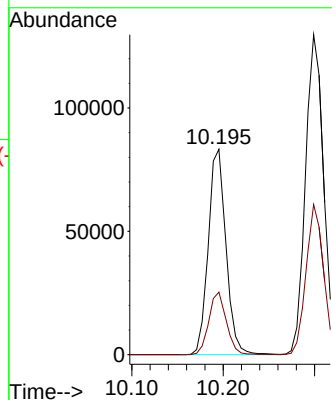
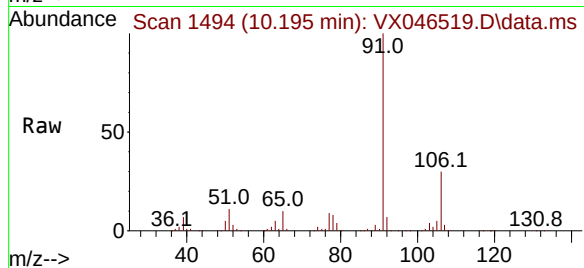
106 30.4 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 40.272 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046519.D

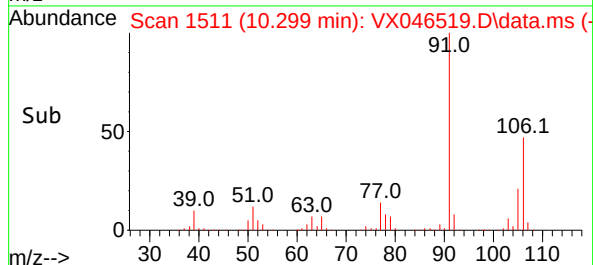
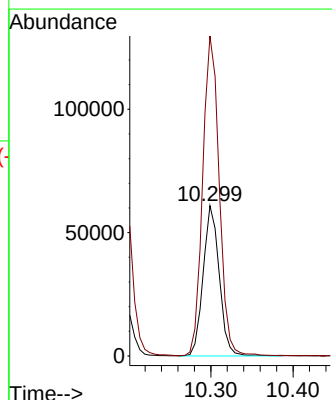
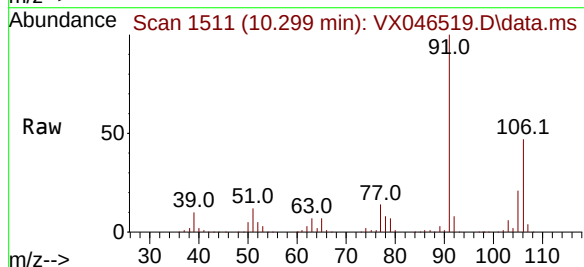
Acq: 06 Jun 2025 10:18

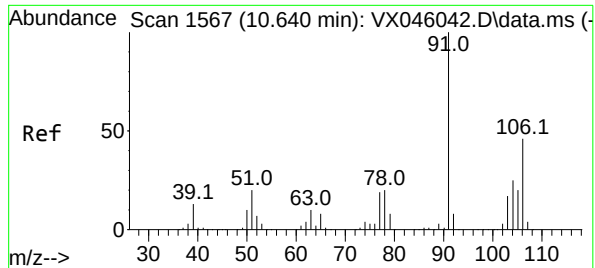
Tgt Ion:106 Resp: 82876

Ion Ratio Lower Upper

106 100

91 218.4 171.2 256.8





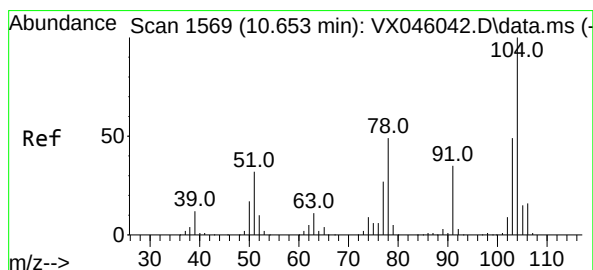
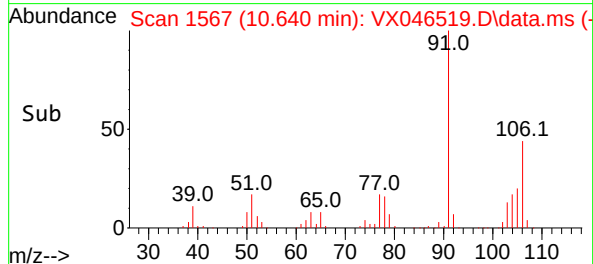
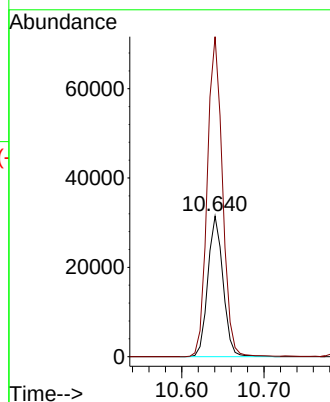
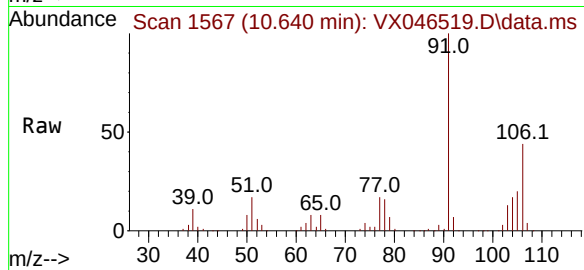
#69
o-Xylene
Concen: 20.304 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tgt Ion:106 Resp: 40415
Ion Ratio Lower Upper
106 100
91 227.7 112.7 338.1

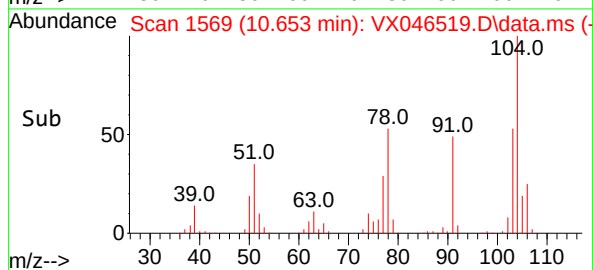
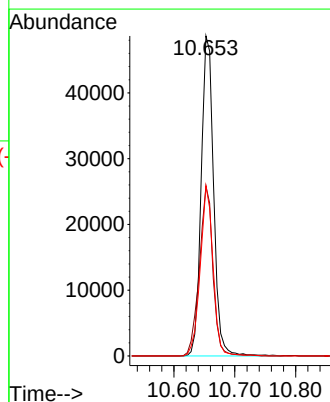
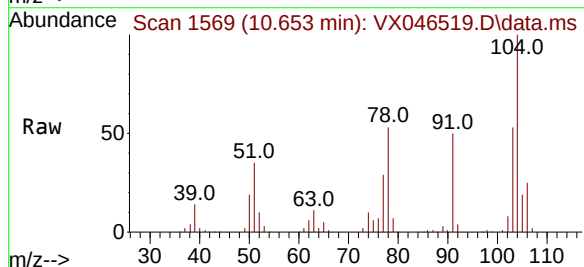
Manual Integrations
APPROVED

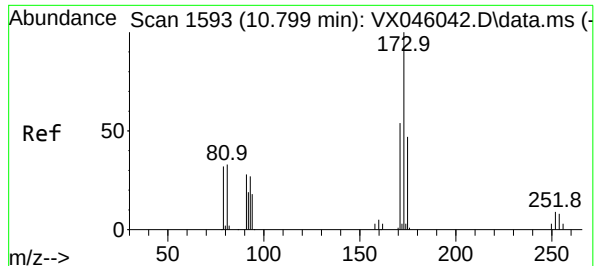
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 20.388 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

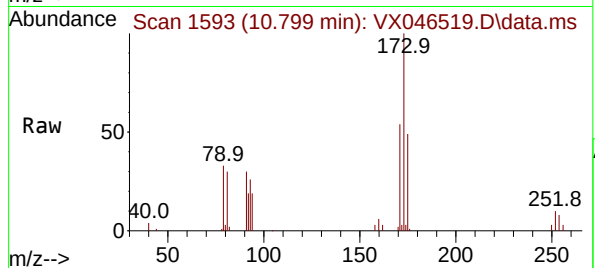
Tgt Ion:104 Resp: 69469
Ion Ratio Lower Upper
104 100
78 57.6 45.7 68.5
103 54.7 43.7 65.5





#71
Bromoform
Concen: 19.817 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

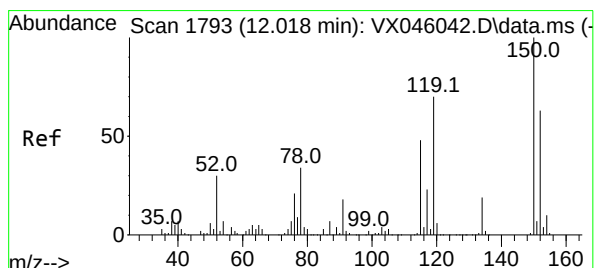
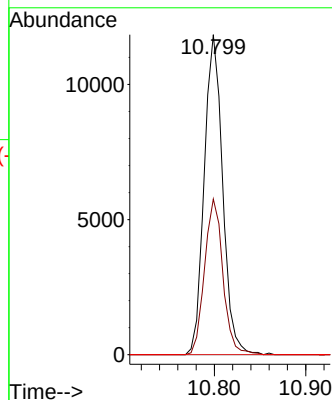
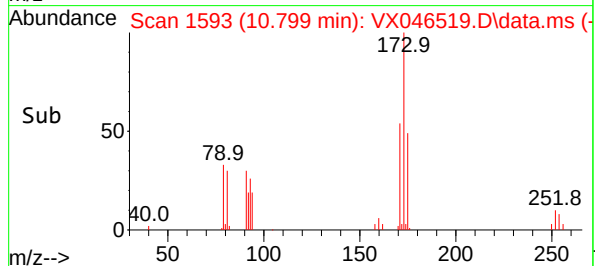
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:173 Resp: 16593
Ion Ratio Lower Upper
173 100
175 48.5 23.4 70.0
254 0.0 0.0 0.0

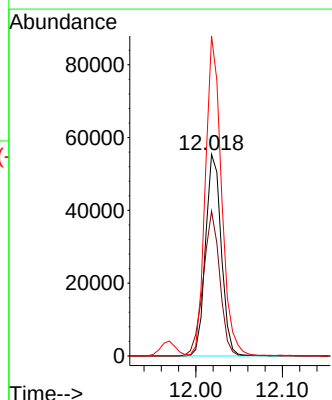
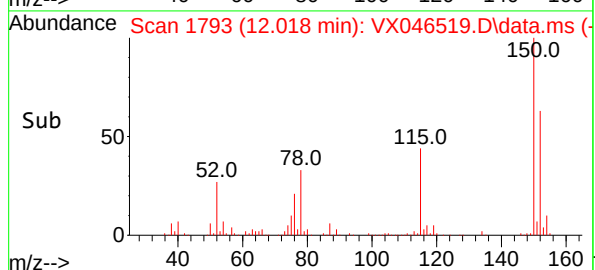
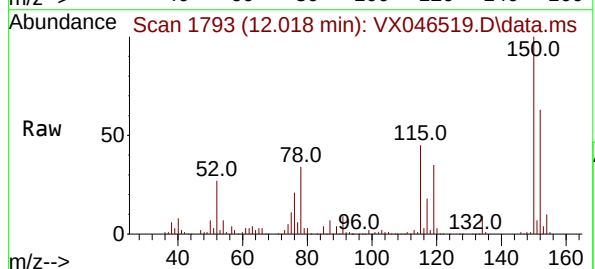
Manual Integrations
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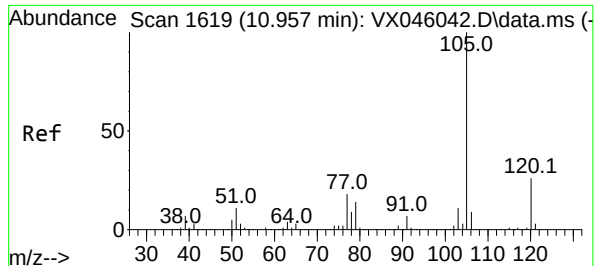
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

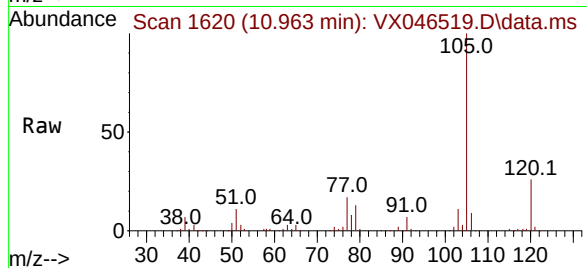
Tgt Ion:152 Resp: 69785
Ion Ratio Lower Upper
152 100
115 75.7 46.9 140.7
150 161.6 0.0 351.0





#73
Isopropylbenzene
Concen: 20.092 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

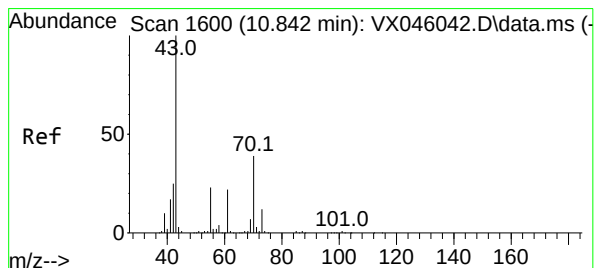
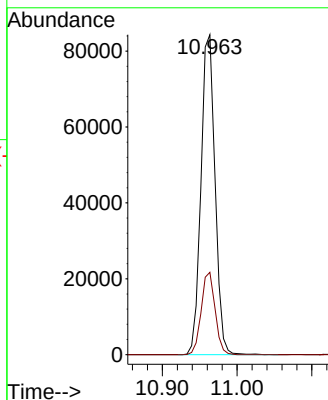
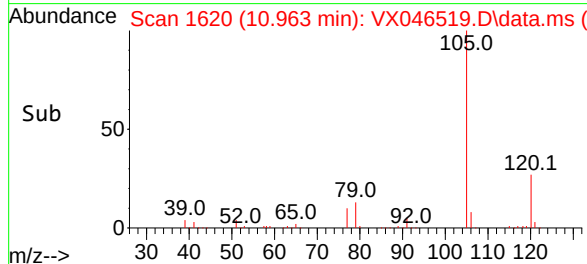
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 11022
Ion Ratio Lower Upper
105 100
120 25.4 12.8 38.4

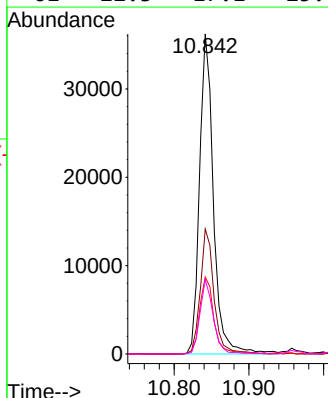
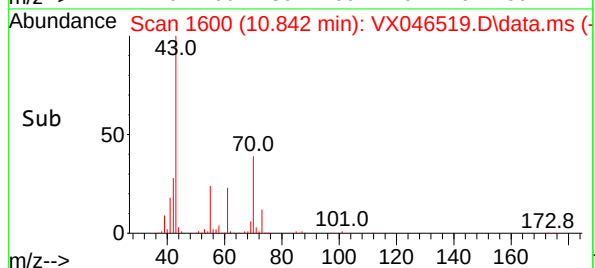
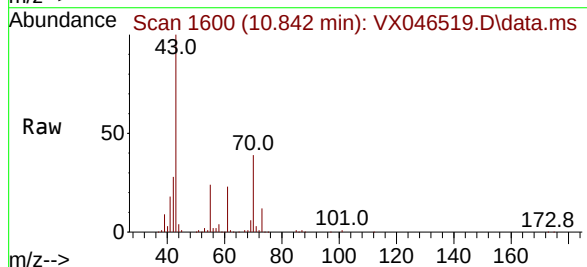
Manual Integrations
APPROVED

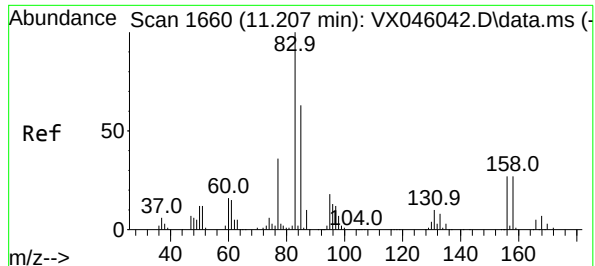
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 19.334 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

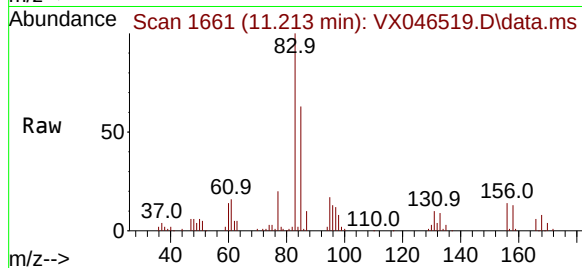
Tgt Ion: 43 Resp: 46707
Ion Ratio Lower Upper
43 100
70 38.5 30.9 46.3
55 24.7 18.7 28.1
61 22.3 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 20.568 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

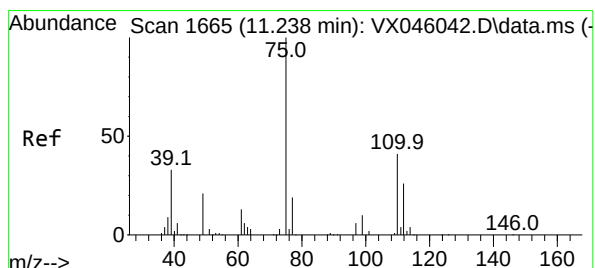
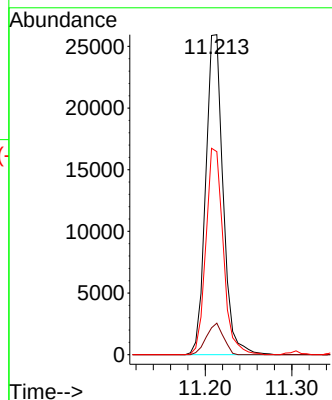
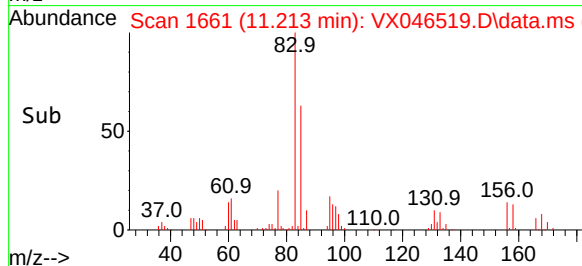
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion: 83 Resp: 36110
Ion Ratio Lower Upper
83 100
131 9.6 5.0 14.9
85 64.3 31.9 95.7

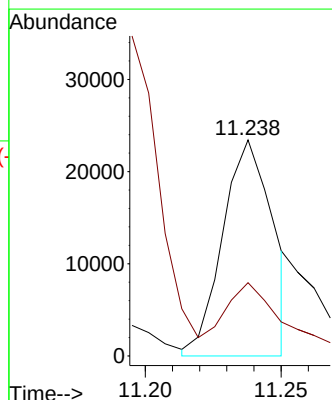
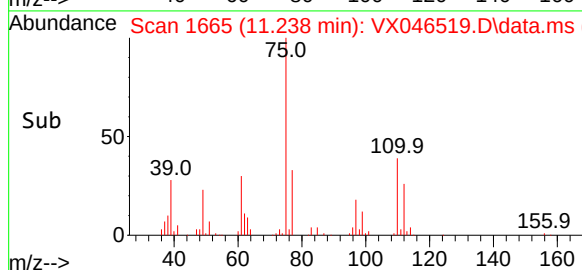
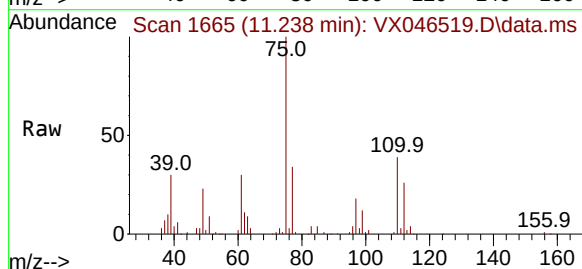
Manual Integrations
APPROVED

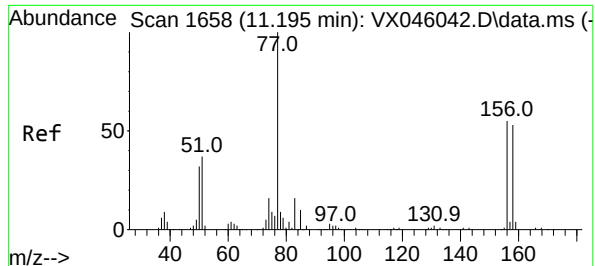
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 19.991 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

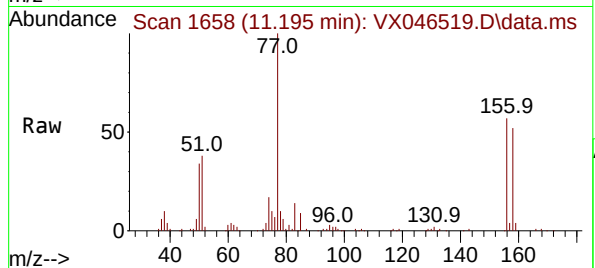
Tgt Ion: 75 Resp: 30039
Ion Ratio Lower Upper
75 100
77 41.8 20.5 61.5





#77
Bromobenzene
Concen: 20.283 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

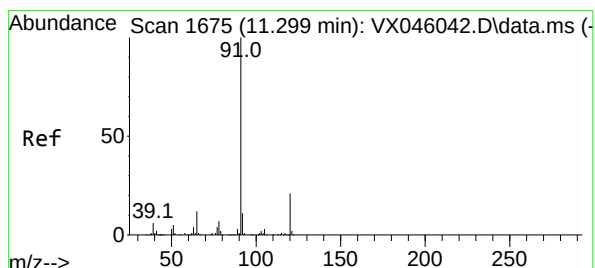
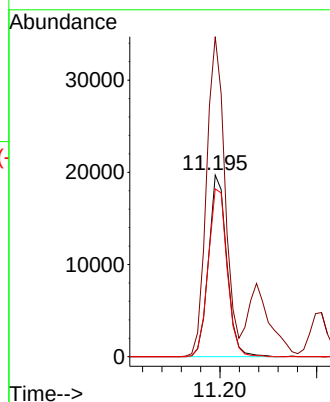
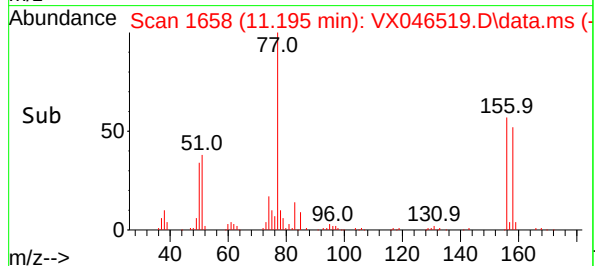
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:156 Resp: 2582
Ion Ratio Lower Upper
156 100
77 177.8 92.8 278.3
158 95.7 48.8 146.3

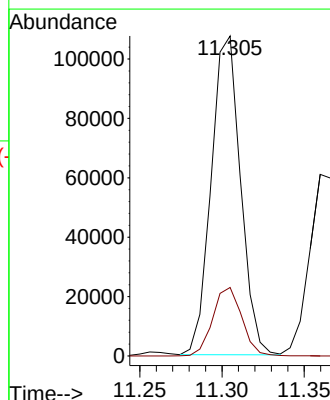
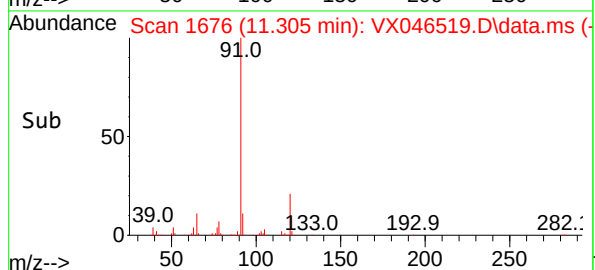
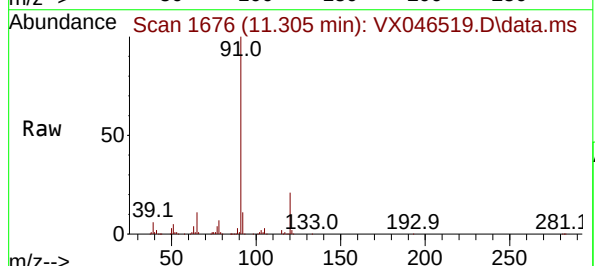
Manual Integrations
APPROVED

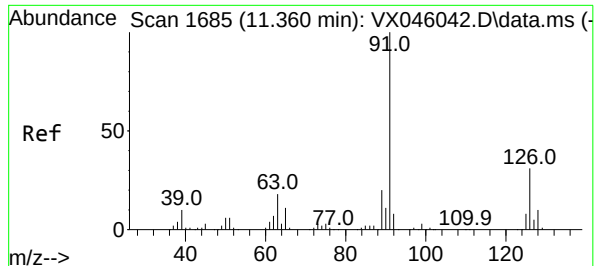
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 20.075 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 91 Resp: 133297
Ion Ratio Lower Upper
91 100
120 21.4 10.8 32.4





#79

2-Chlorotoluene

Concen: 20.005 ug/l

RT: 11.360 min Scan# 1685

Delta R.T. -0.006 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC020

Tgt Ion: 91 Resp: 8010

Ion Ratio Lower Upper

91 100

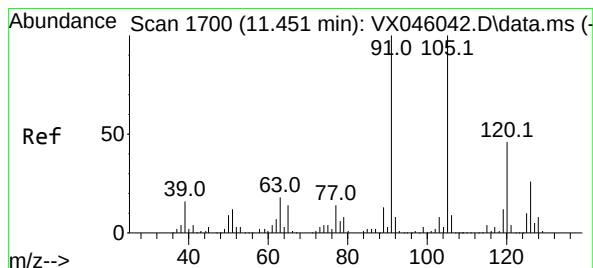
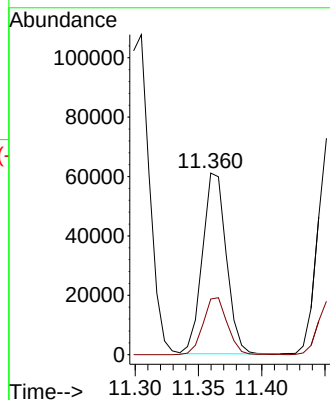
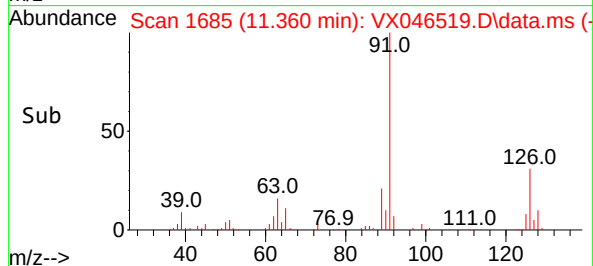
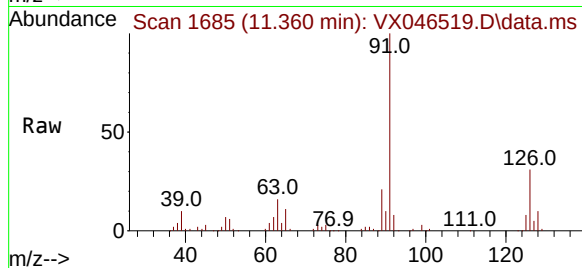
126 32.0 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 20.131 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046519.D

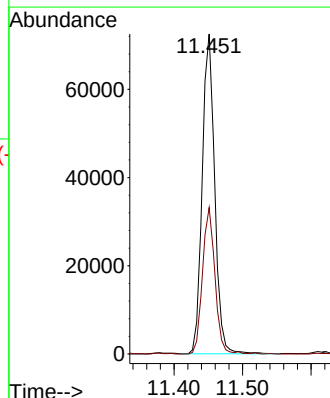
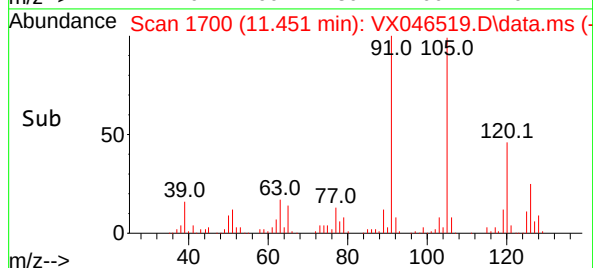
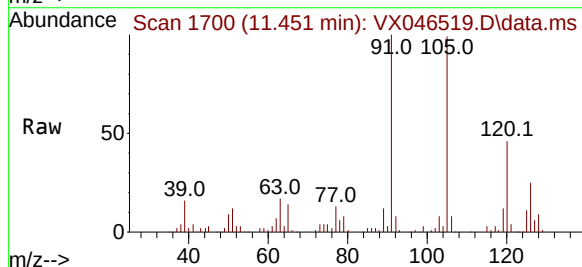
Acq: 06 Jun 2025 10:18

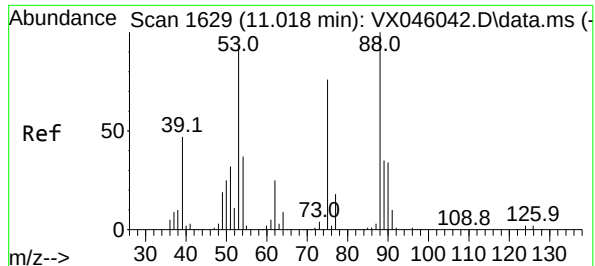
Tgt Ion:105 Resp: 92024

Ion Ratio Lower Upper

105 100

120 45.7 23.1 69.2





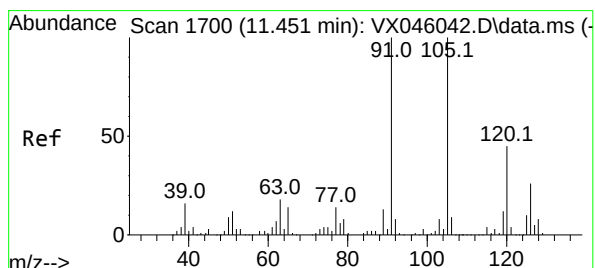
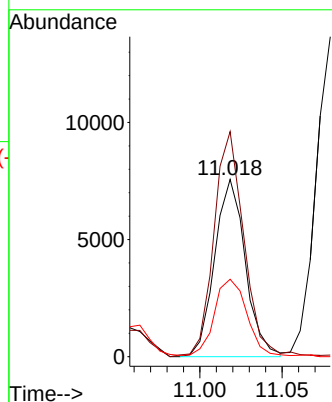
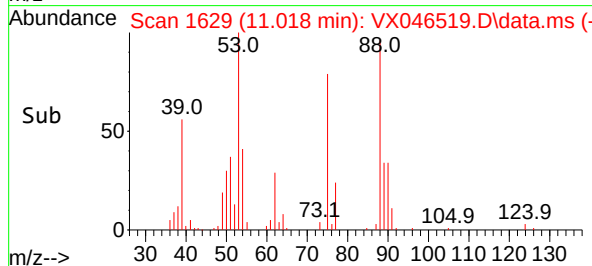
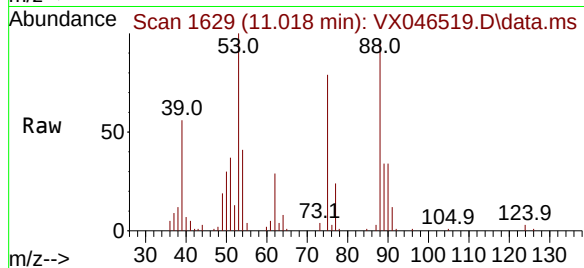
#81
trans-1,4-Dichloro-2-butene
Concen: 19.187 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion: 75 Resp: 9832
Ion Ratio Lower Upper
75 100
53 124.6 100.5 150.7
89 47.2 37.0 55.6

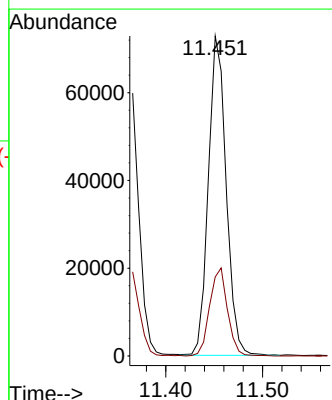
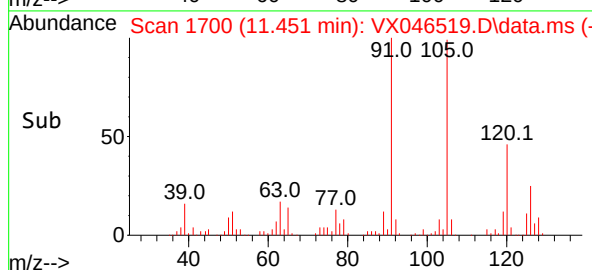
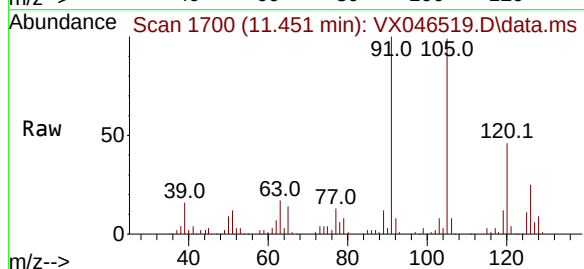
Manual Integrations
APPROVED

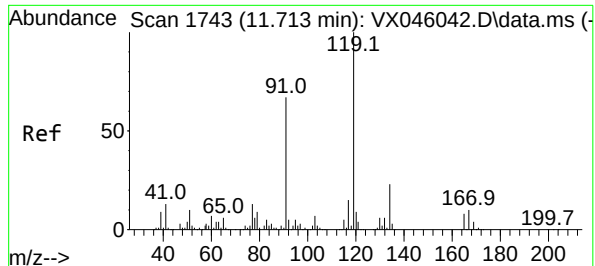
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 19.655 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion: 91 Resp: 93283
Ion Ratio Lower Upper
91 100
126 27.5 13.3 39.8





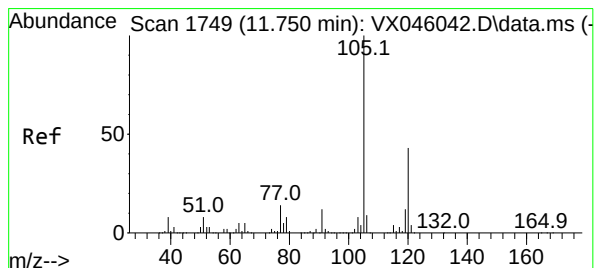
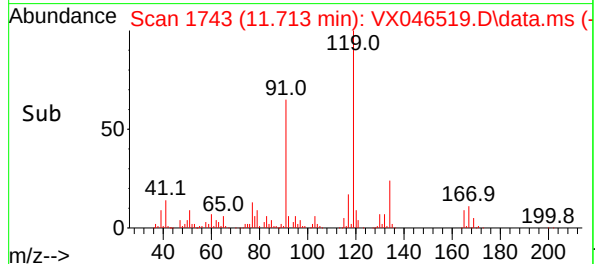
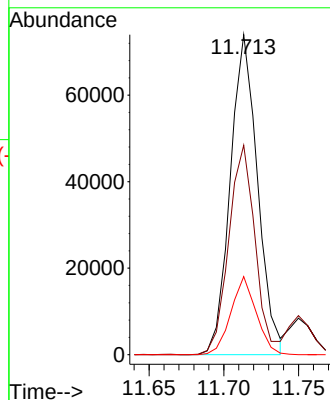
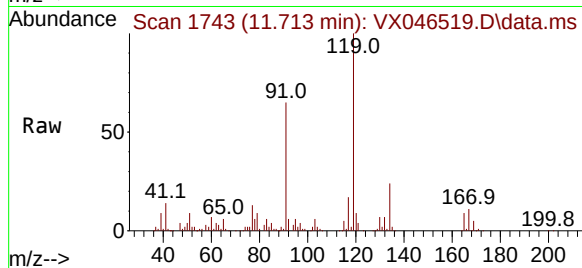
#83
tert-Butylbenzene
Concen: 20.178 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

Tgt Ion:119 Resp: 9389
Ion Ratio Lower Upper
119 100
91 63.6 32.9 98.7
134 22.7 11.4 34.1

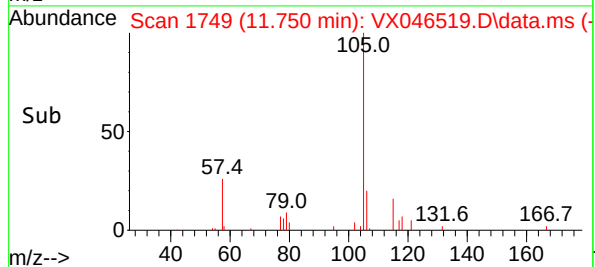
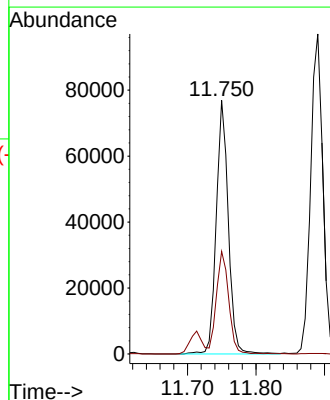
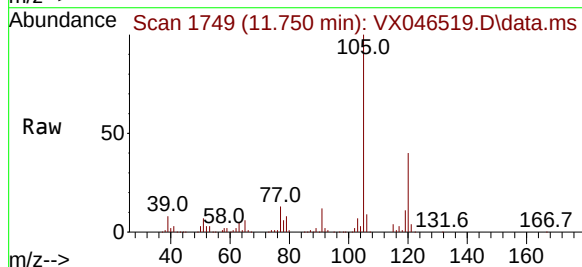
Manual Integrations
APPROVED

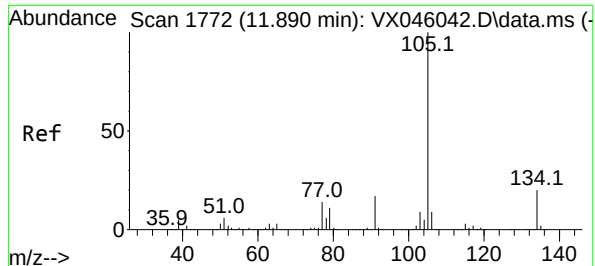
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#84
1,2,4-Trimethylbenzene
Concen: 20.279 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

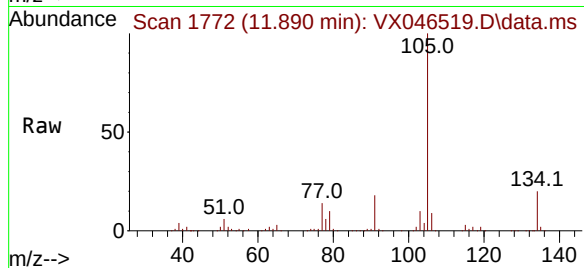
Tgt Ion:105 Resp: 93782
Ion Ratio Lower Upper
105 100
120 41.1 21.2 63.6





#85
sec-Butylbenzene
Concen: 20.054 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

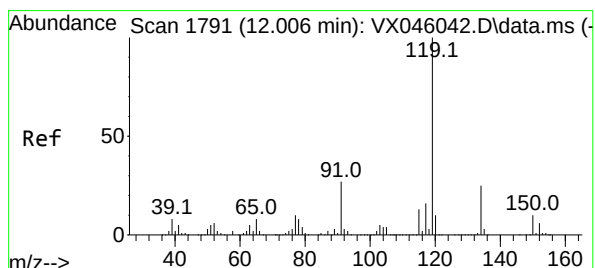
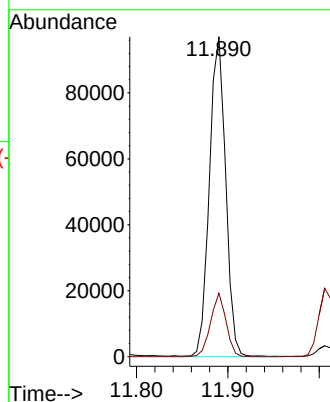
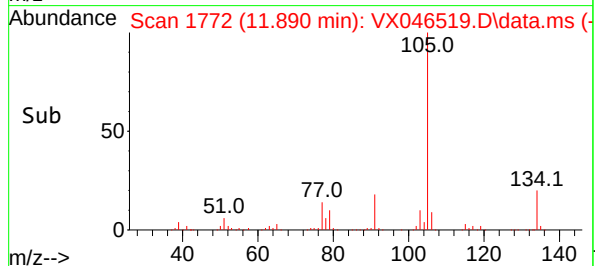
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:105 Resp: 119909
Ion Ratio Lower Upper
105 100
134 18.8 9.7 29.1

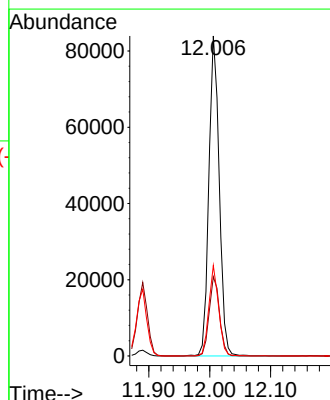
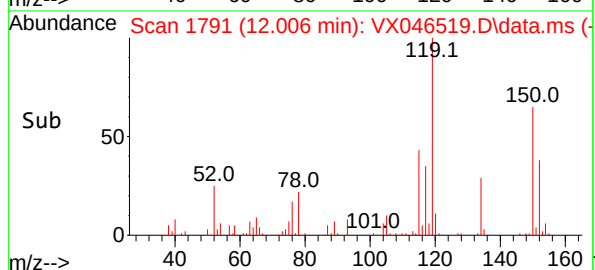
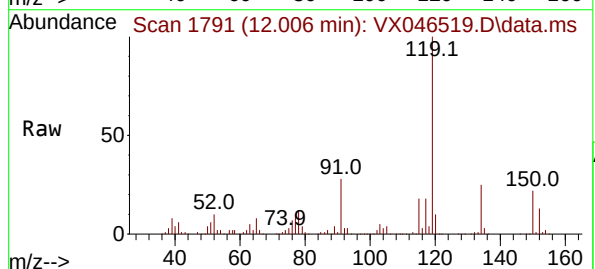
Manual Integrations
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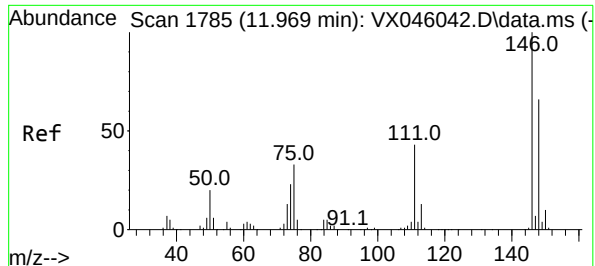
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 19.900 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:119 Resp: 99196
Ion Ratio Lower Upper
119 100
134 24.8 12.5 37.5
91 26.8 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 19.349 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tgt Ion:146 Resp: 4784

Ion Ratio Lower Upper

146 100

111 44.4 22.1 66.3

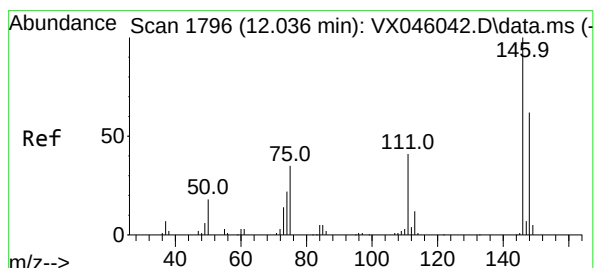
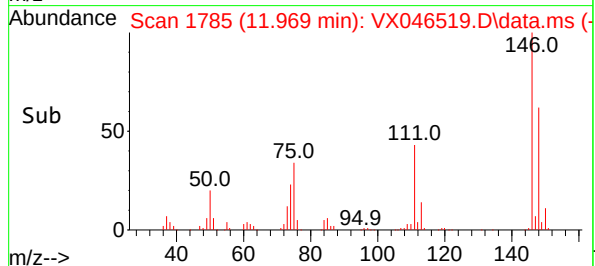
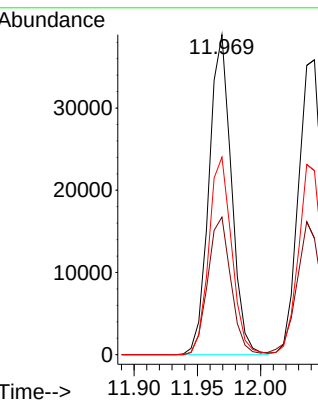
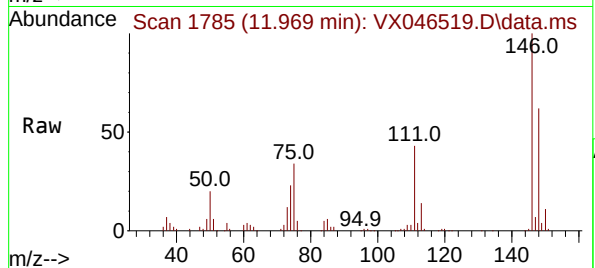
148 63.1 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 18.912 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

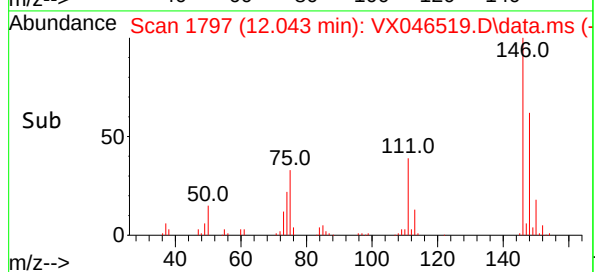
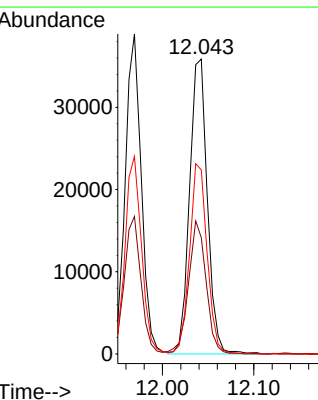
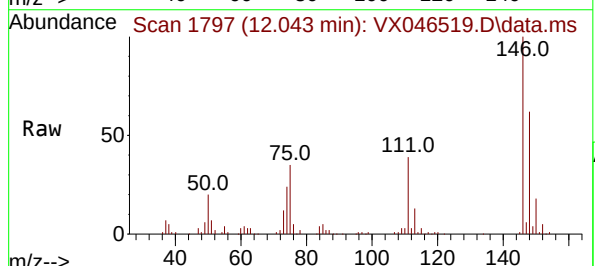
Tgt Ion:146 Resp: 48453

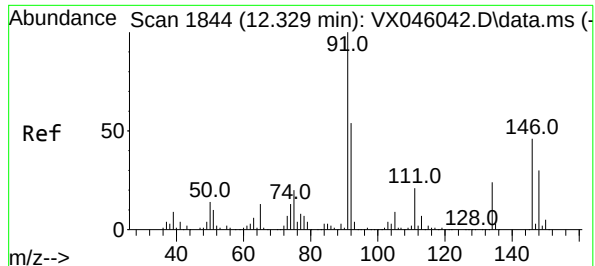
Ion Ratio Lower Upper

146 100

111 44.7 21.3 63.9

148 63.7 31.9 95.5





#89

n-Butylbenzene

Concen: 19.263 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

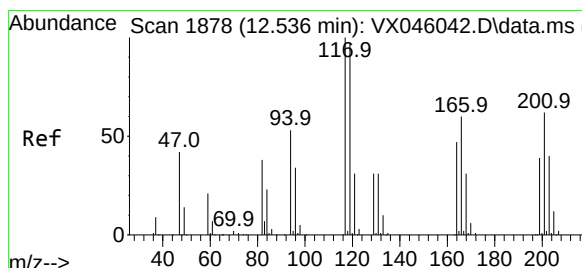
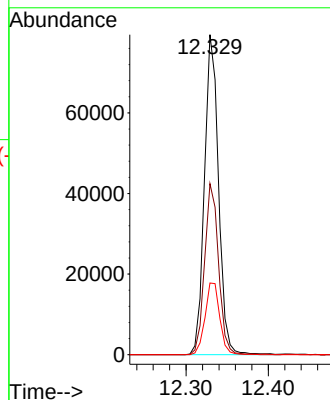
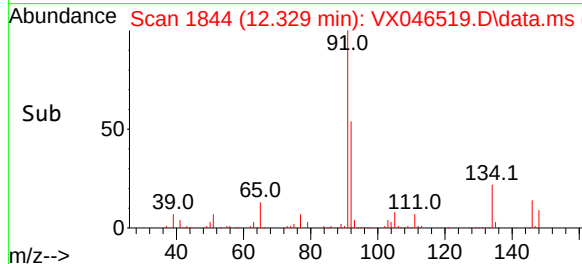
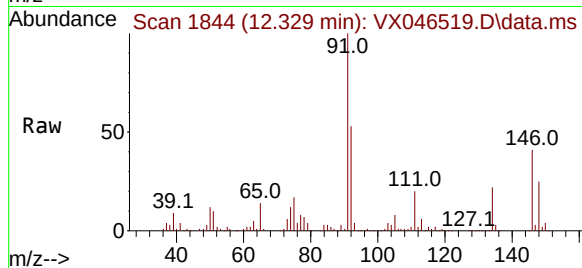
Tgt Ion: 91	Resp: 9429
Ion Ratio	Lower Upper
91	100
92	53.1 26.9 80.7
134	23.5 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 18.972 ug/l

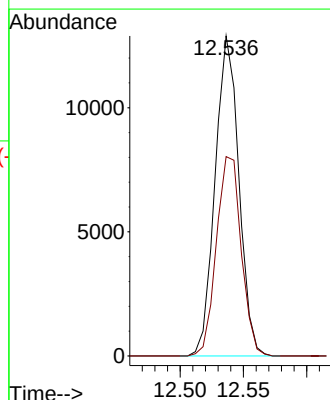
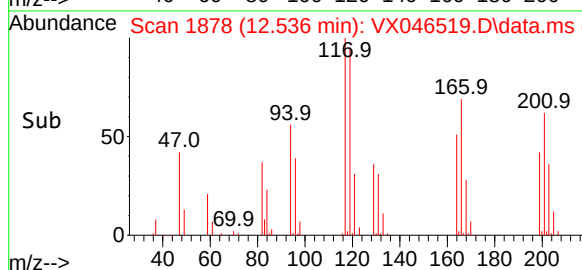
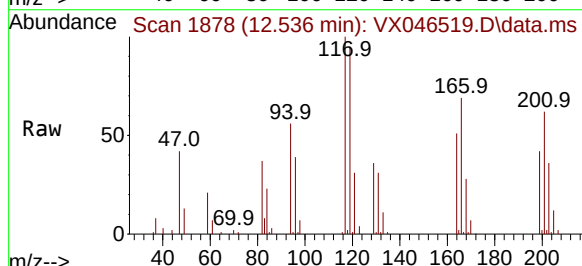
RT: 12.536 min Scan# 1878

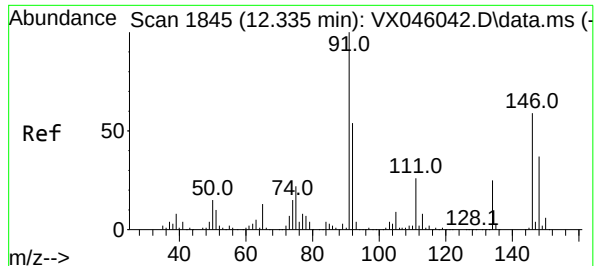
Delta R.T. 0.000 min

Lab File: VX046519.D

Acq: 06 Jun 2025 10:18

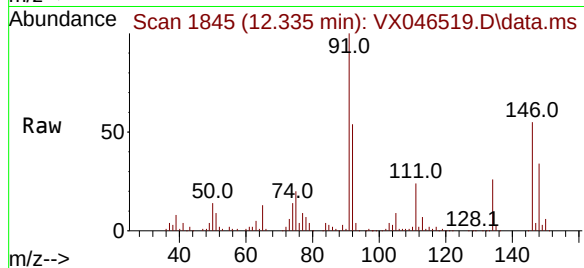
Tgt Ion: 117	Resp: 16809
Ion Ratio	Lower Upper
117	100
201	65.1 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 19.801 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

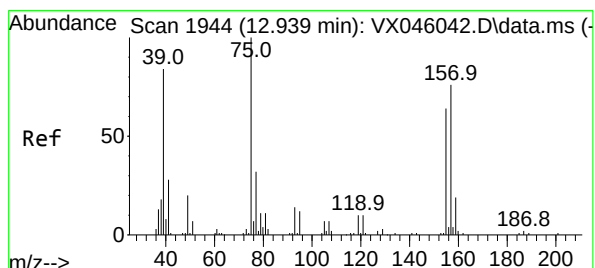
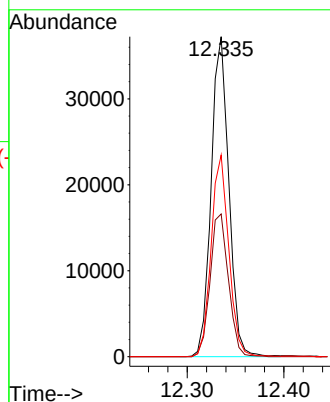
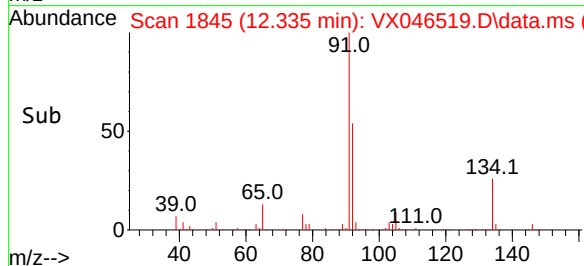
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020



Tgt Ion:146 Resp: 47259
Ion Ratio Lower Upper
146 100
111 46.3 22.4 67.3
148 63.0 31.6 94.8

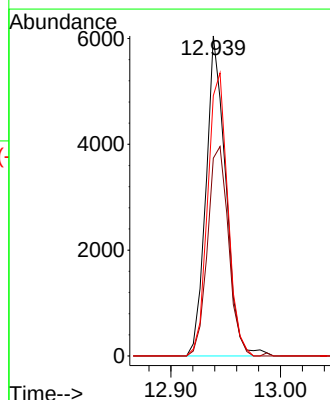
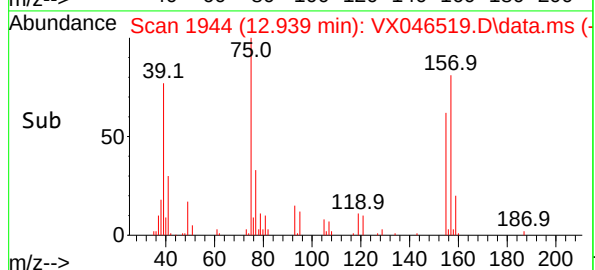
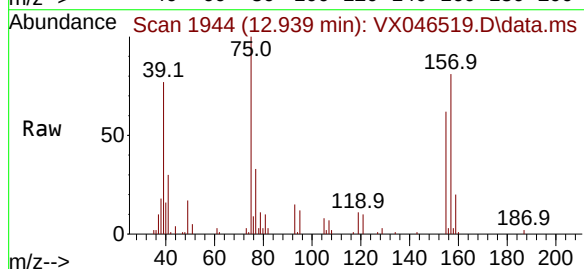
Manual Integrations
APPROVED

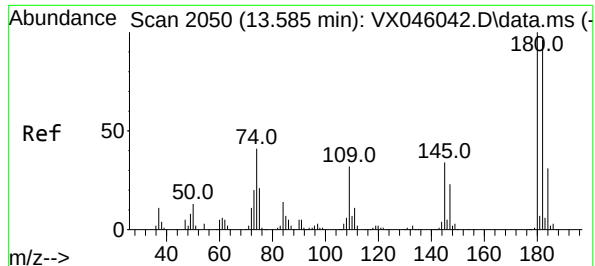
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.293 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

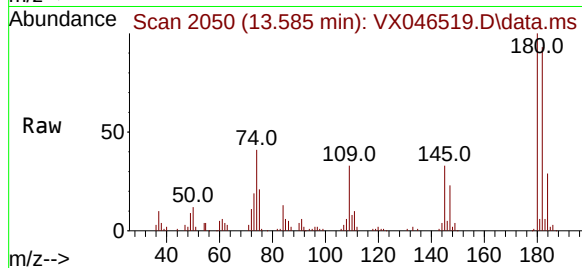
Tgt Ion: 75 Resp: 7586
Ion Ratio Lower Upper
75 100
155 69.2 34.9 104.8
157 89.7 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 18.598 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

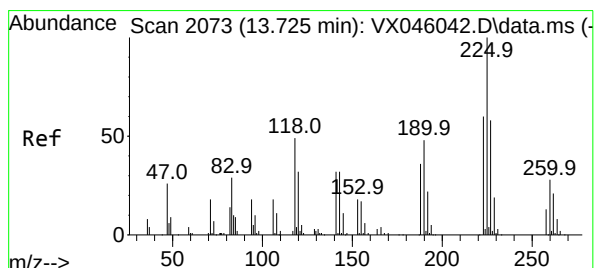
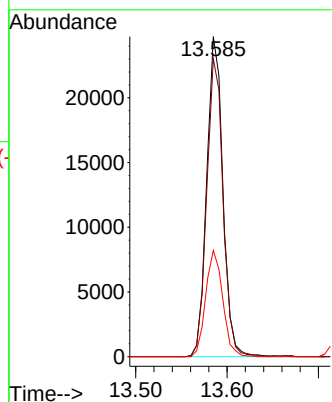
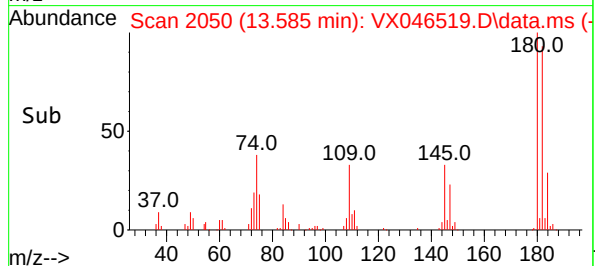
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:180 Resp: 30280
Ion Ratio Lower Upper
180 100
182 93.9 47.9 143.8
145 35.0 17.1 51.2

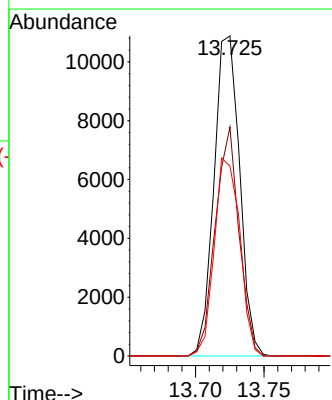
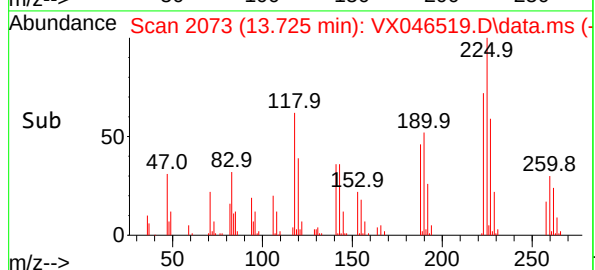
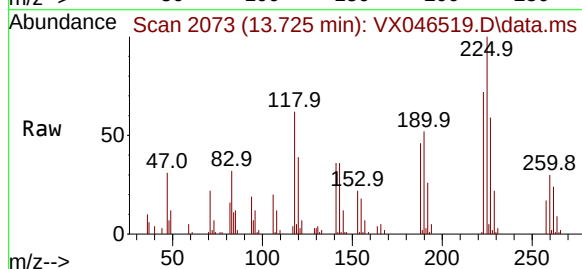
Manual Integrations
APPROVED

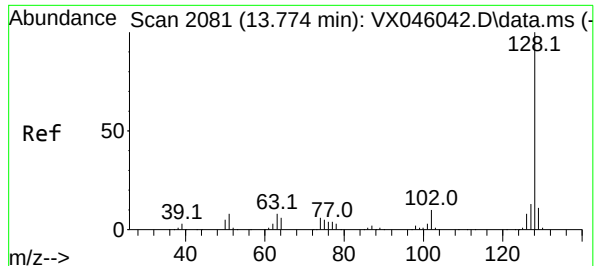
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#94
Hexachlorobutadiene
Concen: 18.746 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

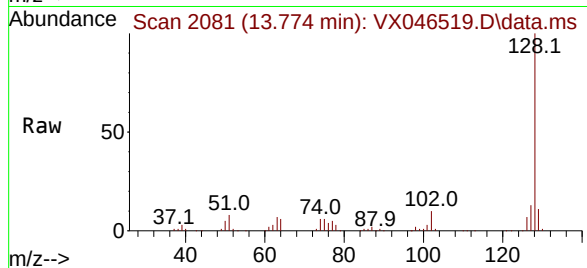
Tgt Ion:225 Resp: 14184
Ion Ratio Lower Upper
225 100
223 66.0 30.8 92.4
227 61.6 30.9 92.7





#95
Naphthalene
Concen: 19.071 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

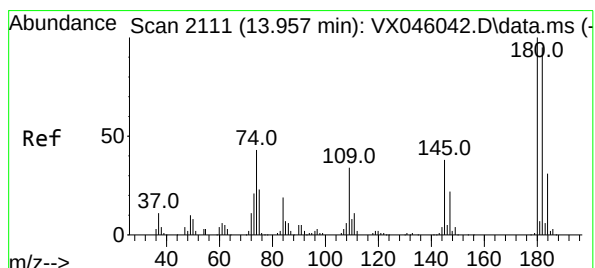
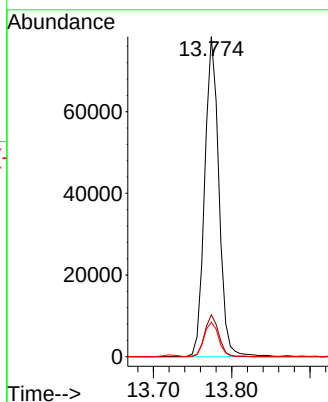
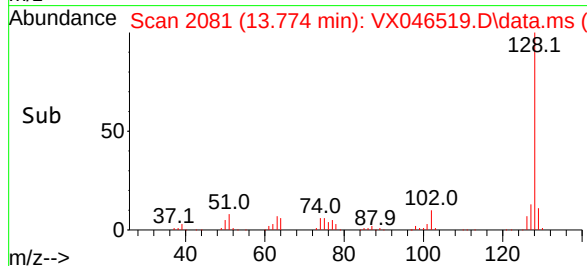
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020



Tgt Ion:128 Resp: 98460
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 11.1 8.6 13.0

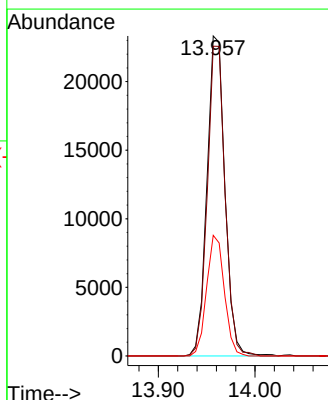
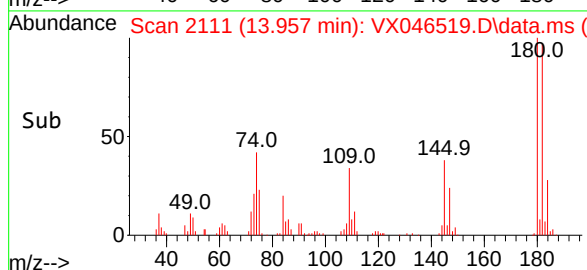
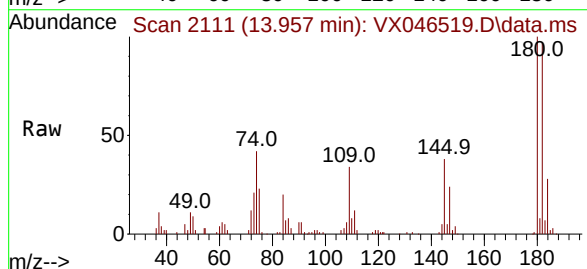
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.437 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046519.D
Acq: 06 Jun 2025 10:18

Tgt Ion:180 Resp: 30099
Ion Ratio Lower Upper
180 100
182 96.0 47.8 143.3
145 37.2 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046520.D
 Acq On : 06 Jun 2025 10:40
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	90114	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	156192	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	136564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	68831	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	78706	49.092	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	98.180%		
35) Dibromofluoromethane	5.403	113	57416	49.986	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.980%		
50) Toluene-d8	8.653	98	185557	49.000	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.000%		
62) 4-Bromofluorobenzene	11.079	95	76988	49.137	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	98.280%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	58145	46.477	ug/l	95
3) Chloromethane	1.307	50	51612	45.324	ug/l	96
4) Vinyl Chloride	1.386	62	53673	47.282	ug/l	100
5) Bromomethane	1.624	94	35883	52.070	ug/l	96
6) Chloroethane	1.703	64	33654	45.694	ug/l	96
7) Trichlorofluoromethane	1.904	101	92019	48.994	ug/l	95
8) Diethyl Ether	2.154	74	32101	48.374	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.349	101	57448	48.549	ug/l	98
10) Methyl Iodide	2.471	142	64524	50.302	ug/l	100
11) Tert butyl alcohol	2.971	59	44039	247.552	ug/l	100
12) 1,1-Dichloroethene	2.337	96	51110	47.772	ug/l	99
13) Acrolein	2.251	56	50652	237.168	ug/l	98
14) Allyl chloride	2.684	41	101836	48.466	ug/l	96
15) Acrylonitrile	3.081	53	170615	253.656	ug/l	99
16) Acetone	2.392	43	153142	243.373	ug/l	100
17) Carbon Disulfide	2.532	76	109794	48.339	ug/l	100
18) Methyl Acetate	2.721	43	101867	53.343	ug/l	100
19) Methyl tert-butyl Ether	3.135	73	190602	50.914	ug/l	99
20) Methylene Chloride	2.806	84	59622	46.355	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	52474	46.346	ug/l	95
22) Diisopropyl ether	3.782	45	211118	50.963	ug/l #	80
23) Vinyl Acetate	3.739	43	823688	257.541	ug/l	100
24) 1,1-Dichloroethane	3.629	63	113435	49.132	ug/l	97
25) 2-Butanone	4.574	43	226668	253.975	ug/l	98
26) 2,2-Dichloropropane	4.495	77	87040	50.783	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	66760	47.898	ug/l	99
28) Bromochloromethane	4.916	49	53158	48.273	ug/l	100
29) Tetrahydrofuran	5.019	42	142276	252.427	ug/l	99
30) Chloroform	5.111	83	118738	49.084	ug/l	99
31) Cyclohexane	5.489	56	89669	48.110	ug/l	99
32) 1,1,1-Trichloroethane	5.397	97	102837	49.696	ug/l	98
36) 1,1-Dichloropropene	5.714	75	75745	46.165	ug/l	99
37) Ethyl Acetate	4.733	43	86522	54.042	ug/l	98
38) Carbon Tetrachloride	5.696	117	88063	47.920	ug/l	99
39) Methylcyclohexane	7.391	83	89357	46.141	ug/l	97
40) Benzene	6.056	78	222898	48.257	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046520.D
 Acq On : 06 Jun 2025 10:40
 Operator : JC/MD
 Sample : VSTDICCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	50437	50.720	ug/l	96
42) 1,2-Dichloroethane	6.098	62	95292	49.590	ug/l	99
43) Isopropyl Acetate	6.354	43	144198	51.653	ug/l	99
44) Trichloroethene	7.135	130	54791	46.686	ug/l	98
45) 1,2-Dichloropropane	7.440	63	59497	49.904	ug/l	99
46) Dibromomethane	7.586	93	43598	48.609	ug/l	98
47) Bromodichloromethane	7.830	83	94149	51.052	ug/l	98
48) Methyl methacrylate	7.702	41	75100	52.285	ug/l	97
49) 1,4-Dioxane	7.671	88	19805	1031.079	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	462924	260.948	ug/l	100
52) Toluene	8.720	92	138129	48.677	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	84697	51.223	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	92087	50.089	ug/l	91
55) 1,1,2-Trichloroethane	9.153	97	57143	50.162	ug/l	97
56) Ethyl methacrylate	9.116	69	91058	51.943	ug/l	97
57) 1,3-Dichloropropane	9.311	76	99273	49.312	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	246532	258.184	ug/l	100
59) 2-Hexanone	9.433	43	333019	261.746	ug/l	99
60) Dibromochloromethane	9.525	129	67410	50.307	ug/l	99
61) 1,2-Dibromoethane	9.610	107	57774	48.669	ug/l	98
64) Tetrachloroethene	9.275	164	42288	46.308	ug/l	96
65) Chlorobenzene	10.079	112	153710	47.857	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	54990	50.666	ug/l	99
67) Ethyl Benzene	10.195	91	275626	49.157	ug/l	100
68) m/p-Xylenes	10.299	106	201325	98.982	ug/l	99
69) o-Xylene	10.640	106	97769	49.696	ug/l	97
70) Styrene	10.658	104	171642	50.968	ug/l	99
71) Bromoform	10.799	173	42521	51.382	ug/l #	98
73) Isopropylbenzene	10.963	105	269074	49.729	ug/l	99
74) N-amyl acetate	10.841	43	124077	52.072	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	86539	49.967	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	72182m	48.702	ug/l	
77) Bromobenzene	11.195	156	60653	48.295	ug/l	100
78) n-propylbenzene	11.305	91	323032	49.325	ug/l	100
79) 2-Chlorotoluene	11.366	91	191732	48.549	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	223189	49.500	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	25456	50.367	ug/l	98
82) 4-Chlorotoluene	11.451	91	226629	48.414	ug/l	99
83) tert-Butylbenzene	11.713	119	226214	49.285	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	224100	49.131	ug/l	100
85) sec-Butylbenzene	11.890	105	287196	48.696	ug/l	99
86) p-Isopropyltoluene	12.006	119	239809	48.775	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	115889	47.520	ug/l	99
88) 1,4-Dichlorobenzene	12.042	146	115263	45.612	ug/l	99
89) n-Butylbenzene	12.329	91	230830	47.808	ug/l	99
90) Hexachloroethane	12.536	117	41969	48.027	ug/l	98
91) 1,2-Dichlorobenzene	12.335	146	112815	47.923	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	19603	50.545	ug/l	94
93) 1,2,4-Trichlorobenzene	13.585	180	74109	46.149	ug/l	99
94) Hexachlorobutadiene	13.725	225	34506	46.237	ug/l	98
95) Naphthalene	13.774	128	256456	50.359	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	75172	46.684	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046520.D
Acq On : 06 Jun 2025 10:40
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

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

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

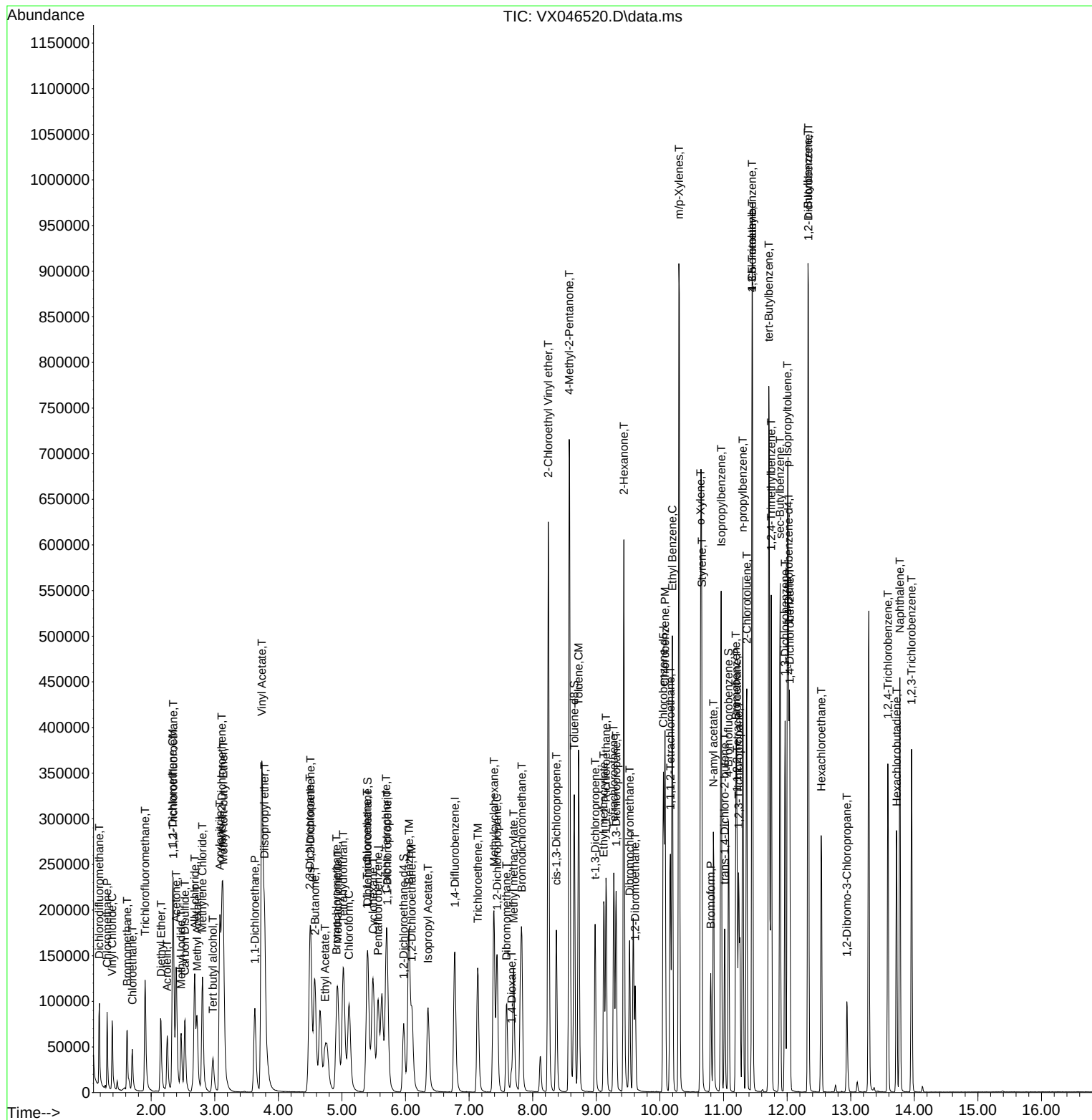
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Data File : VX046520.D
Acq On : 06 Jun 2025 10:40
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

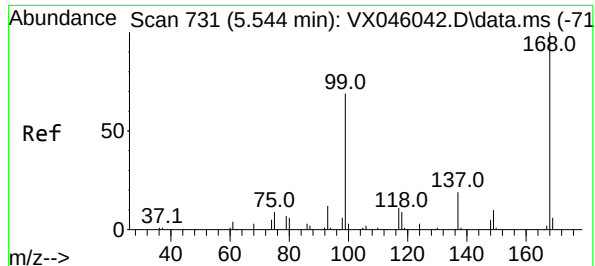
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Manual Integrations APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

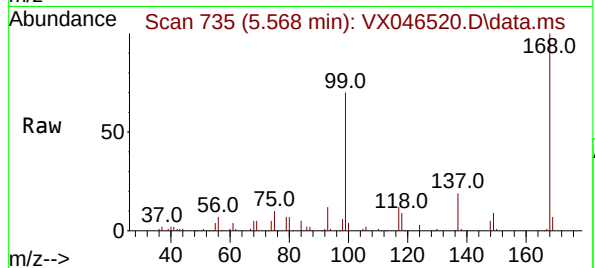
Quant Time: Jun 06 16:41:31 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

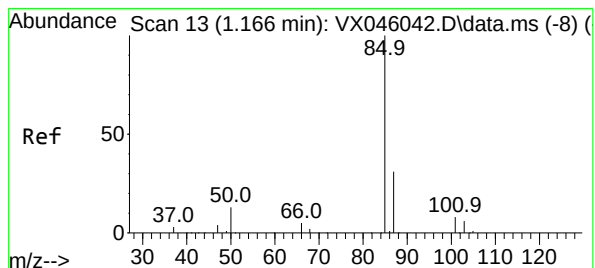
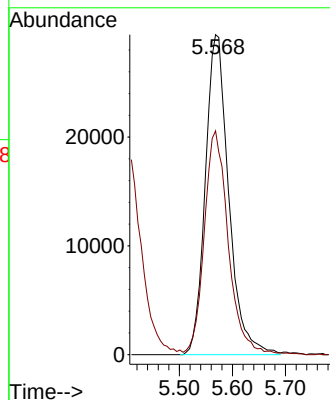
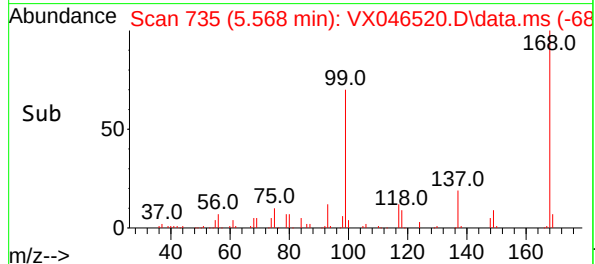
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:168 Resp: 90114
Ion Ratio Lower Upper
168 100
99 69.4 54.9 82.3

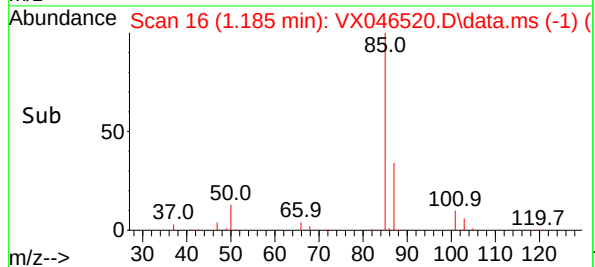
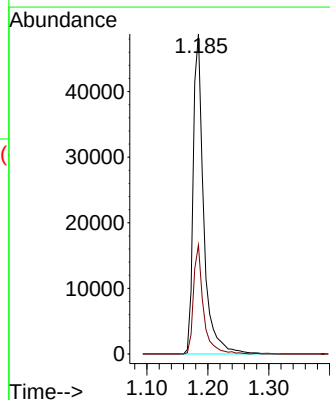
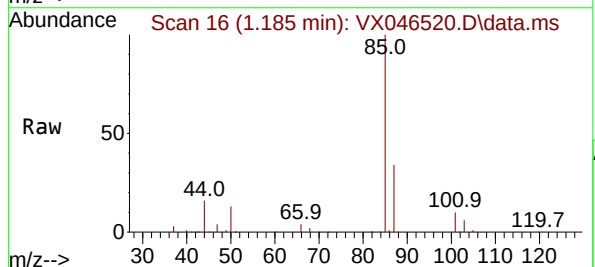
Manual Integrations
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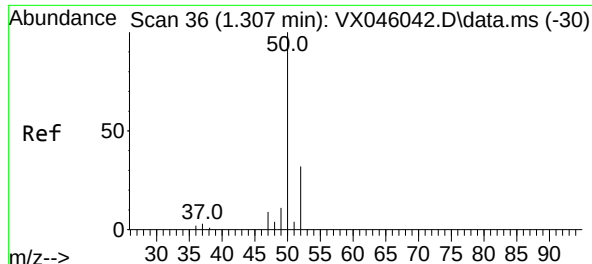
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 46.477 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

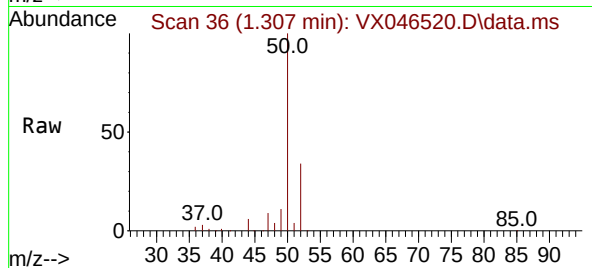
Tgt Ion: 85 Resp: 58145
Ion Ratio Lower Upper
85 100
87 34.0 15.7 47.1





#3
Chloromethane
Concen: 45.324 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

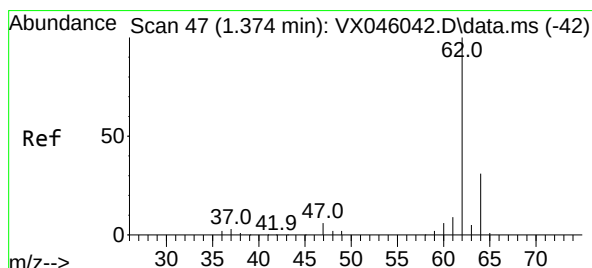
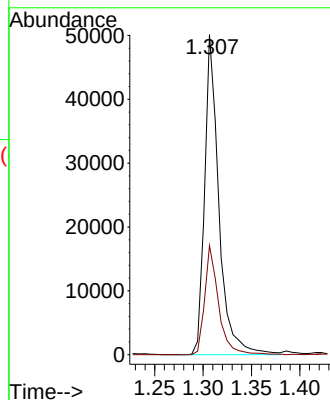
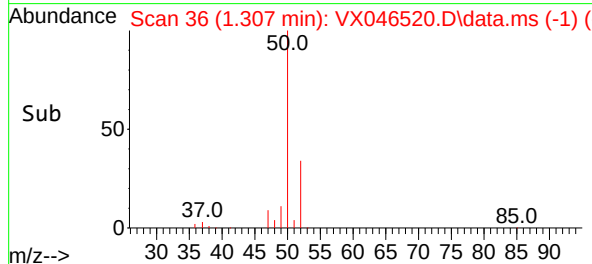
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 50 Resp: 51612
Ion Ratio Lower Upper
50 100
52 34.1 25.4 38.2

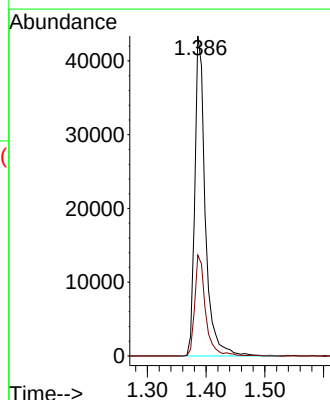
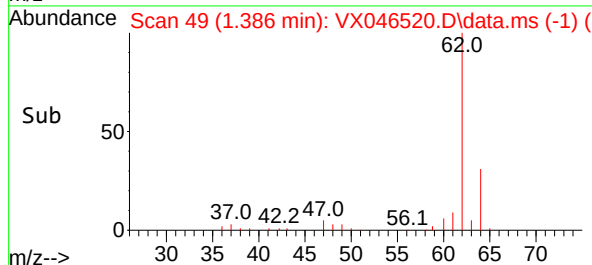
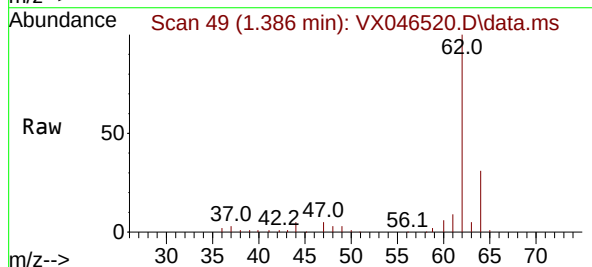
Manual Integrations
APPROVED

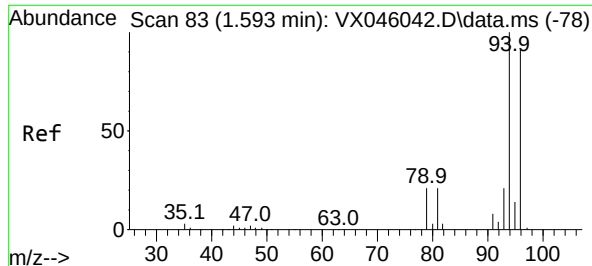
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 47.282 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 62 Resp: 53673
Ion Ratio Lower Upper
62 100
64 31.5 25.2 37.8





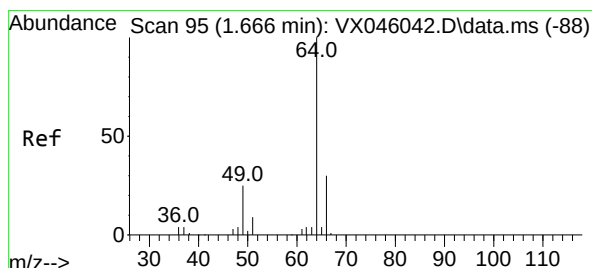
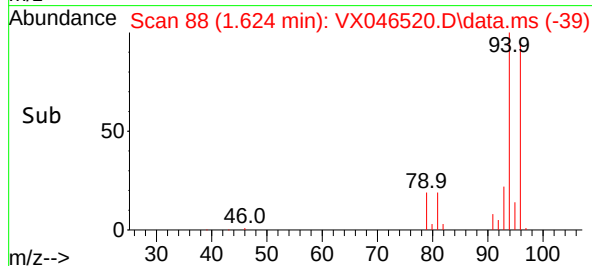
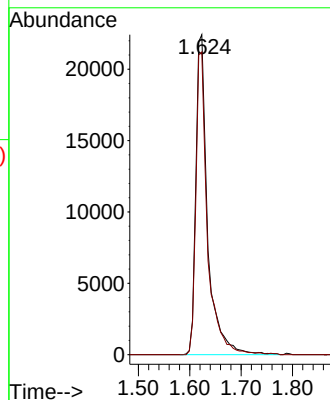
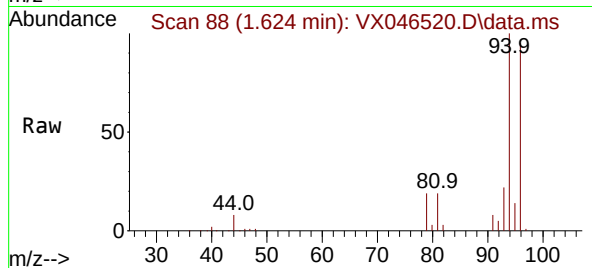
#5
Bromomethane
Concen: 52.070 ug/l
RT: 1.624 min Scan# 81
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 94 Resp: 3588
Ion Ratio Lower Upper
94 100
96 94.6 72.8 109.2

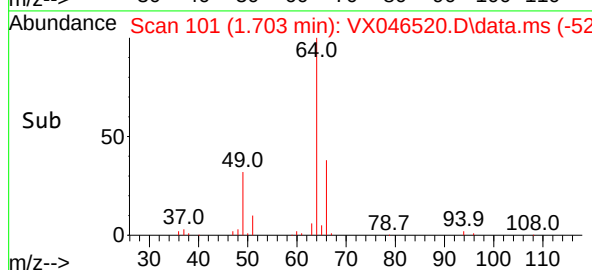
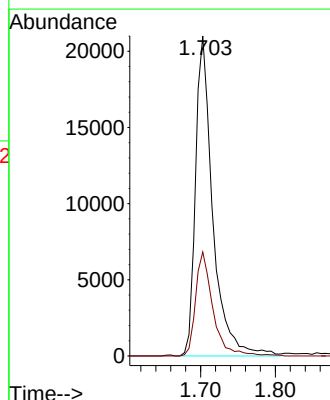
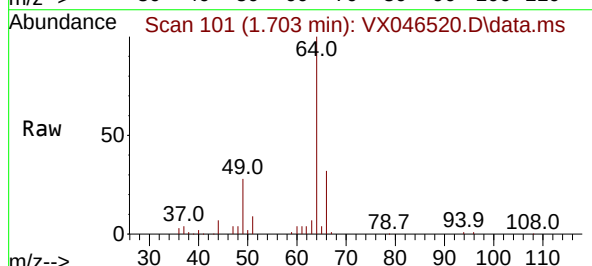
Manual Integrations
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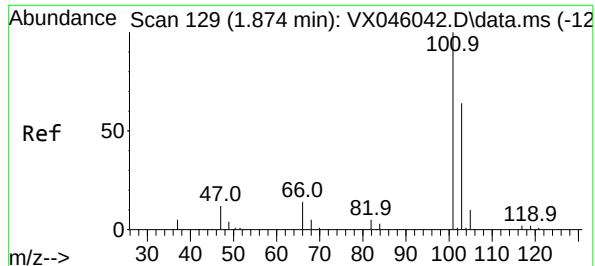
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 45.694 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

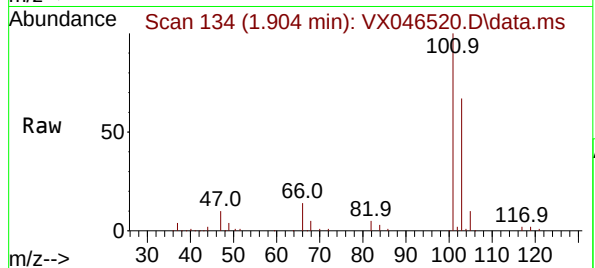
Tgt Ion: 64 Resp: 33654
Ion Ratio Lower Upper
64 100
66 32.5 24.3 36.5





#7
Trichlorofluoromethane
Concen: 48.994 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

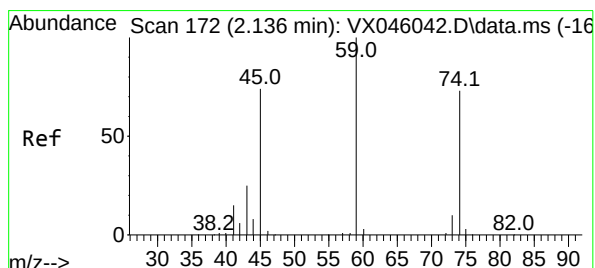
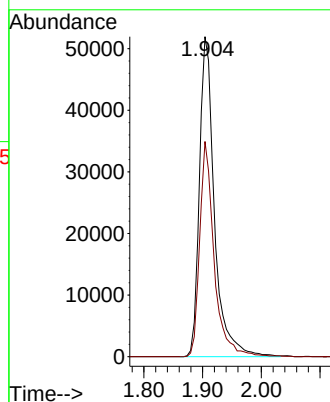
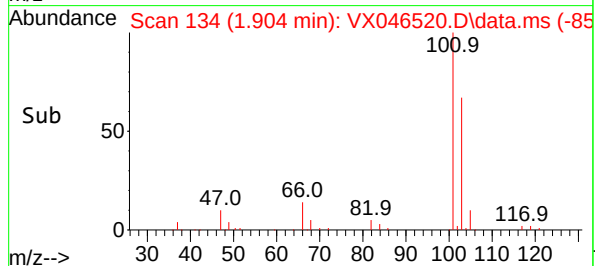
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 92019
Ion Ratio Lower Upper
101 100
103 67.2 51.0 76.4

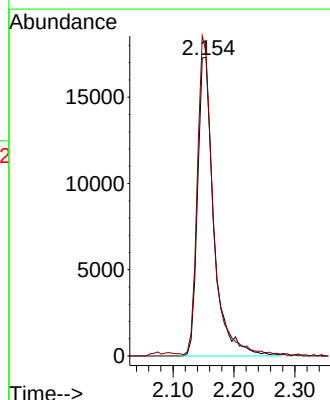
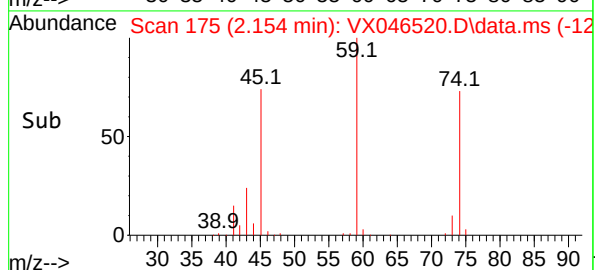
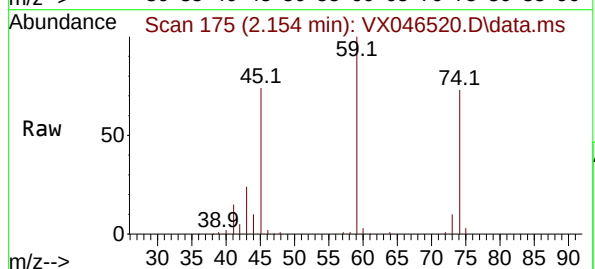
Manual Integrations
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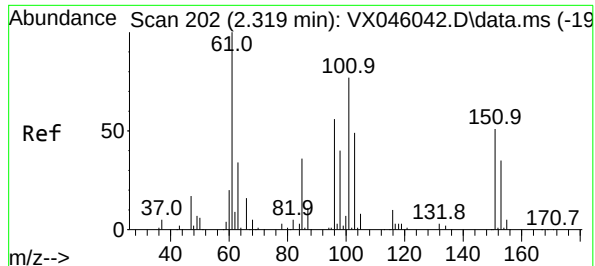
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 48.374 ug/l
RT: 2.154 min Scan# 175
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

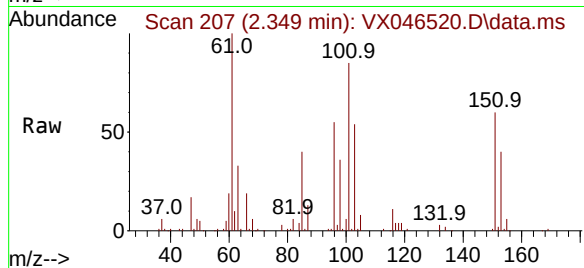
Tgt Ion: 74 Resp: 32101
Ion Ratio Lower Upper
74 100
45 103.6 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.549 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

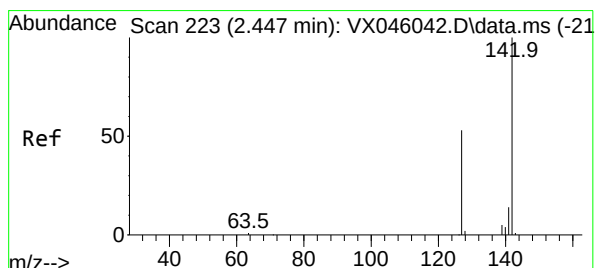
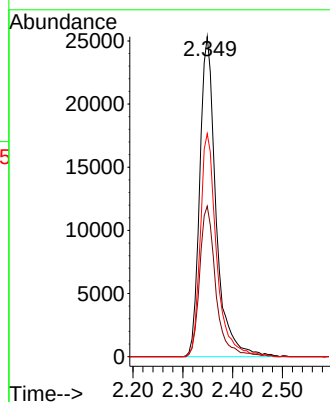
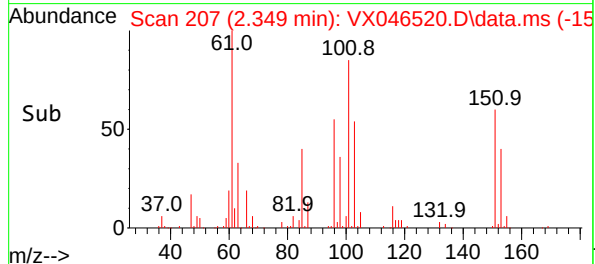
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:101 Resp: 57448
Ion Ratio Lower Upper
101 100
85 46.9 38.6 58.0
151 70.1 55.2 82.8

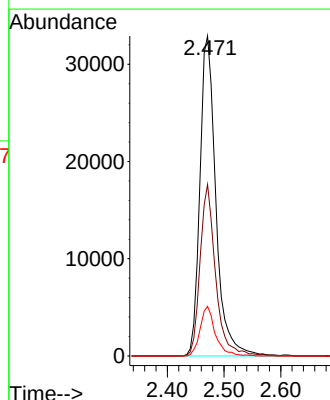
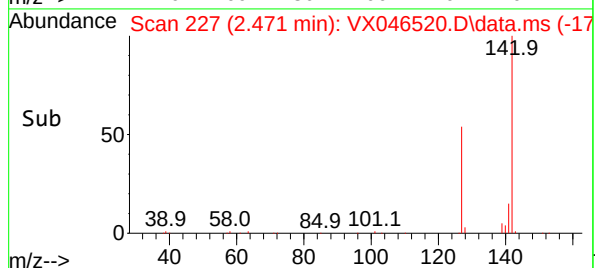
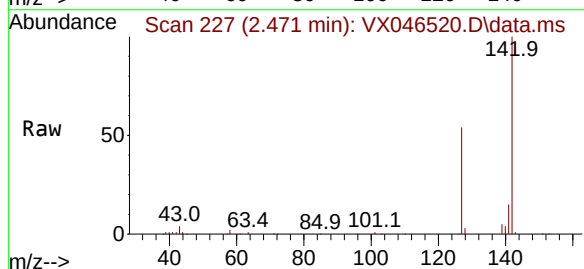
Manual Integrations
APPROVED

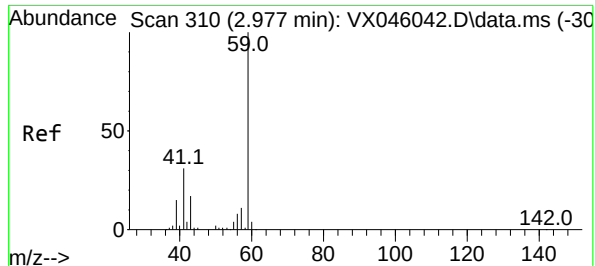
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 50.302 ug/l
RT: 2.471 min Scan# 227
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:142 Resp: 64524
Ion Ratio Lower Upper
142 100
127 52.0 41.7 62.5
141 14.9 11.5 17.3





#11

Tert butyl alcohol

Concen: 247.552 ug/l

RT: 2.971 min Scan# 309

Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 59 Resp: 44039

Ion Ratio Lower Upper

59 100

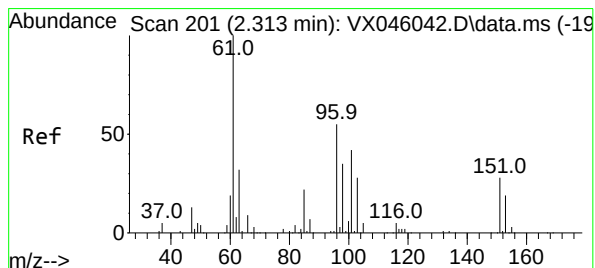
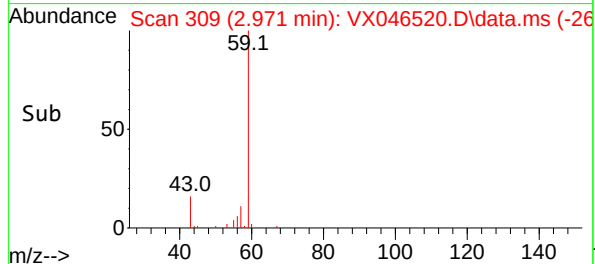
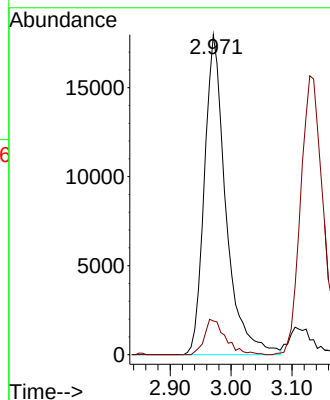
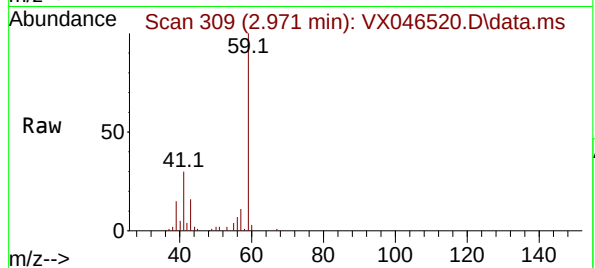
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 47.772 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

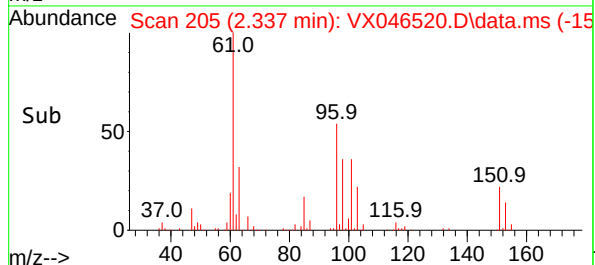
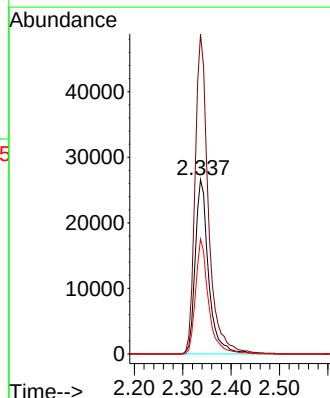
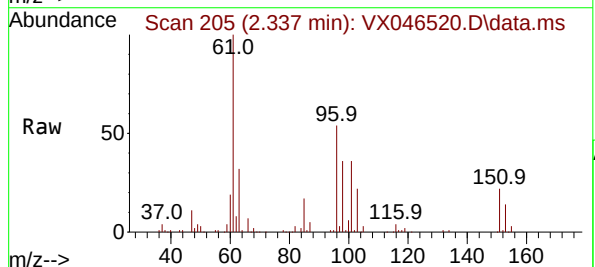
Tgt Ion: 96 Resp: 51110

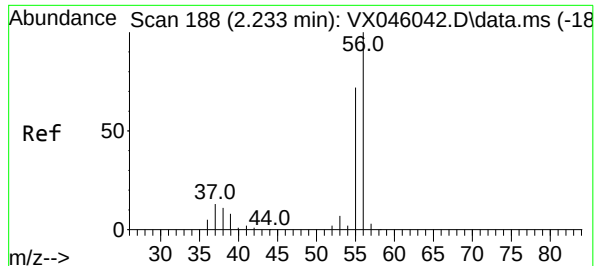
Ion Ratio Lower Upper

96 100

61 183.5 146.2 219.2

98 66.0 51.0 76.6





#13

Acrolein

Concen: 237.168 ug/l

RT: 2.251 min Scan# 191

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 56 Resp: 50652

Ion Ratio Lower Upper

56 100

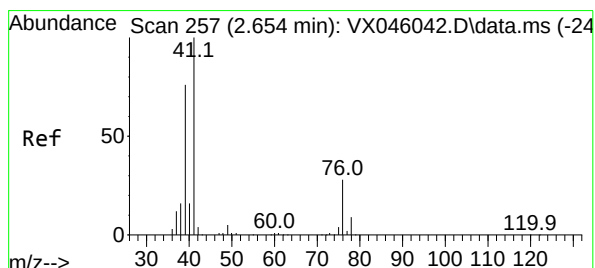
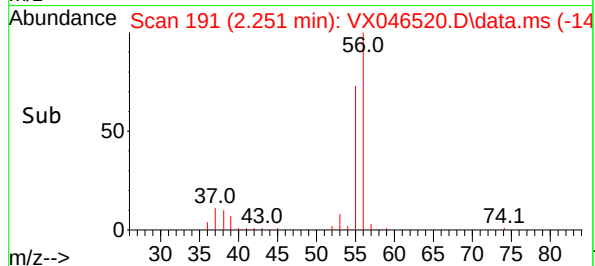
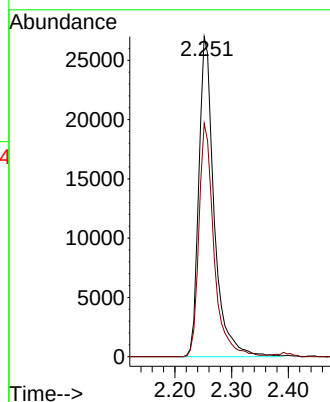
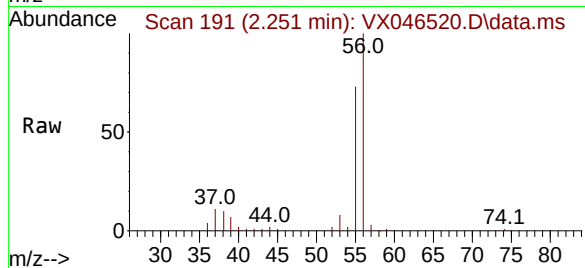
55 71.6 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 48.466 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

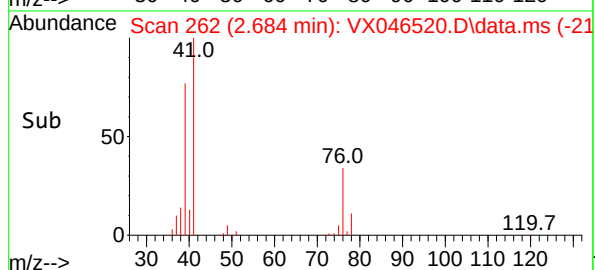
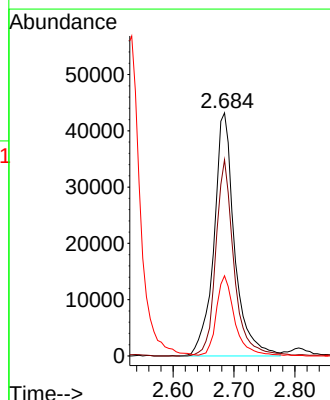
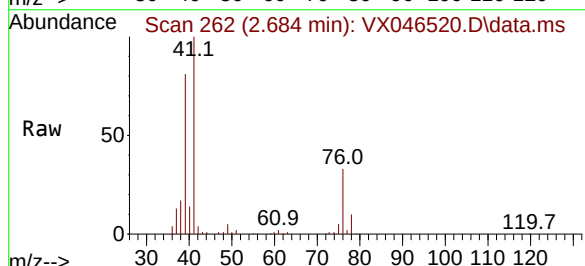
Tgt Ion: 41 Resp: 101836

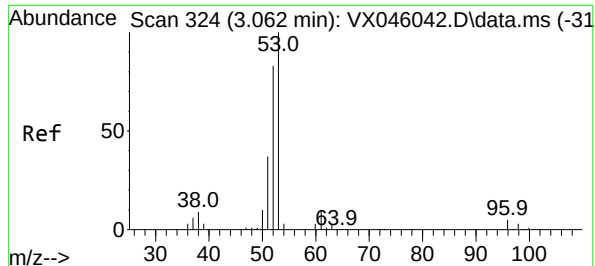
Ion Ratio Lower Upper

41 100

39 71.4 60.6 90.8

76 29.7 24.9 37.3





#15

Acrylonitrile

Concen: 253.656 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 53 Resp: 17061

Ion Ratio Lower Upper

53 100

52 83.3 65.3 97.9

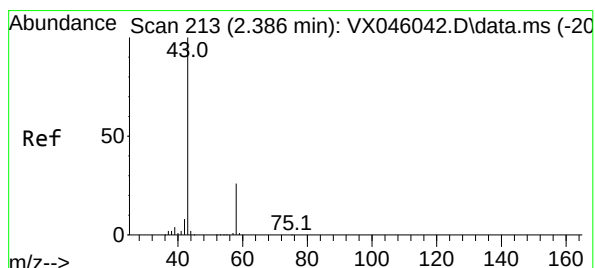
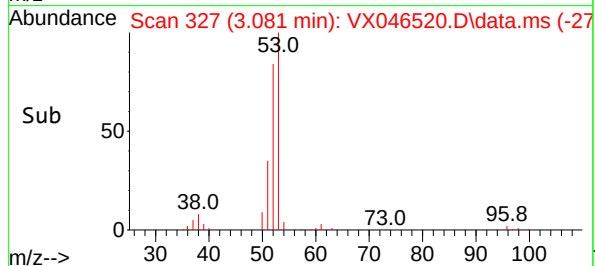
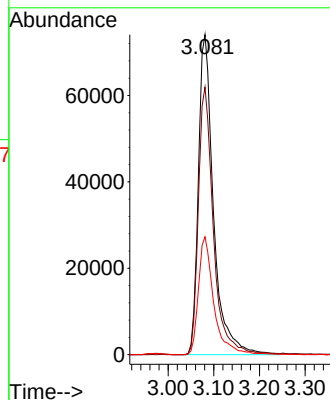
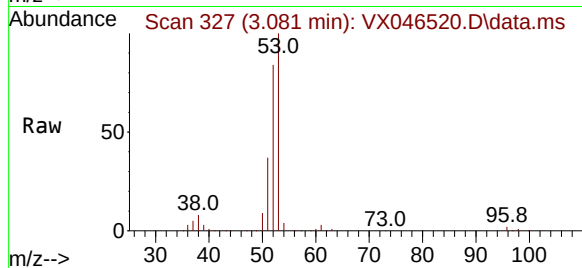
51 37.6 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 243.373 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX046520.D

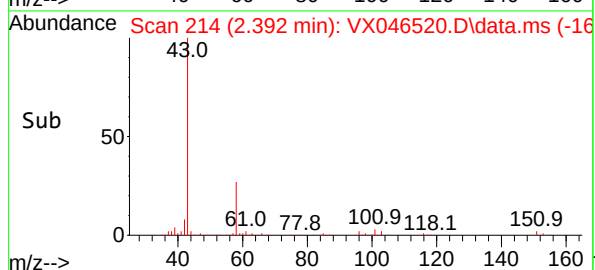
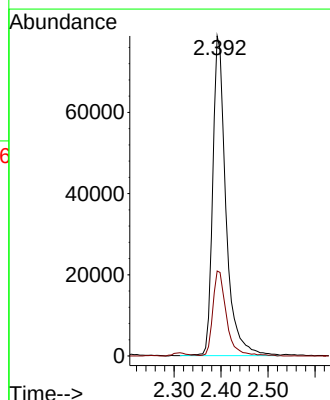
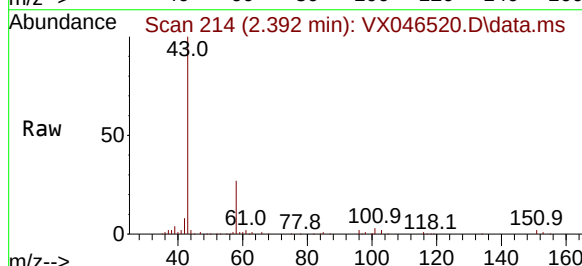
Acq: 06 Jun 2025 10:40

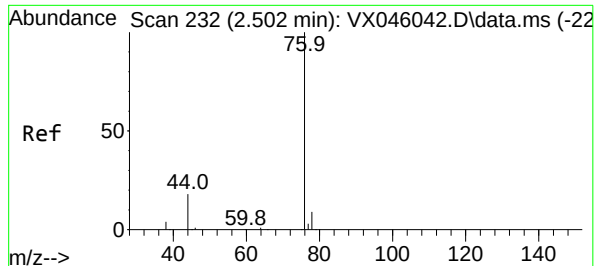
Tgt Ion: 43 Resp: 153142

Ion Ratio Lower Upper

43 100

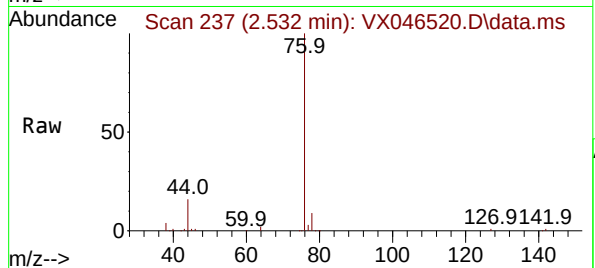
58 26.5 21.2 31.8





#17
Carbon Disulfide
Concen: 48.339 ug/l
RT: 2.532 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

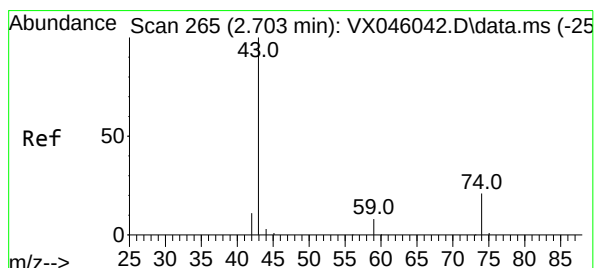
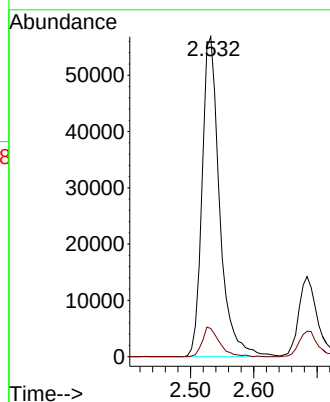
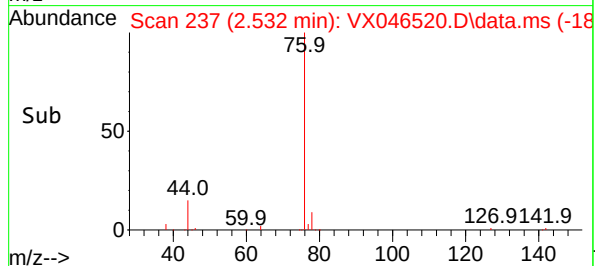
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 76 Resp: 109794
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.4

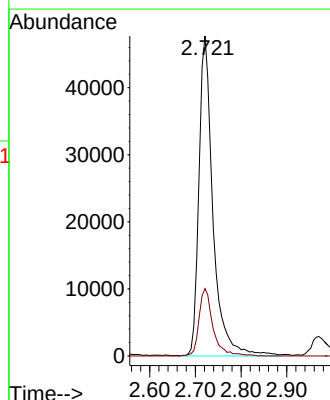
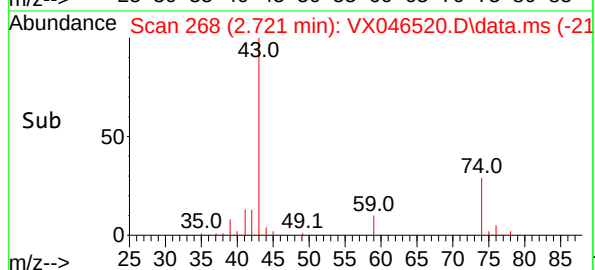
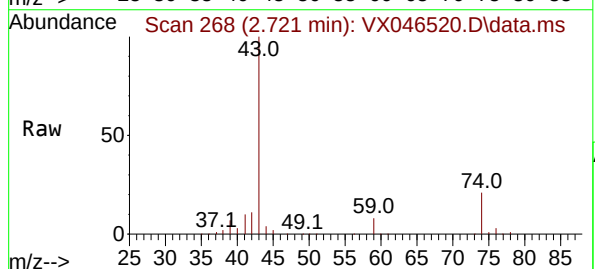
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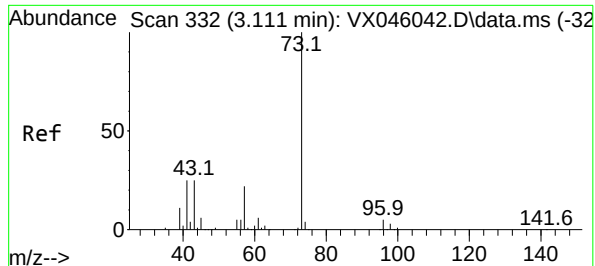
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 53.343 ug/l
RT: 2.721 min Scan# 268
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 43 Resp: 101867
Ion Ratio Lower Upper
43 100
74 20.9 16.7 25.1





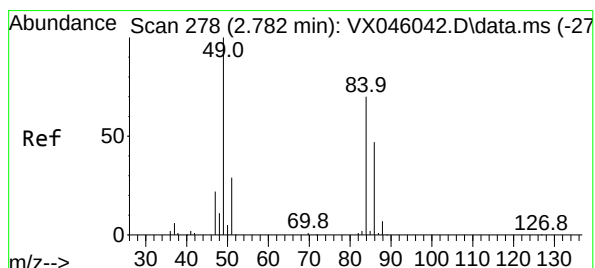
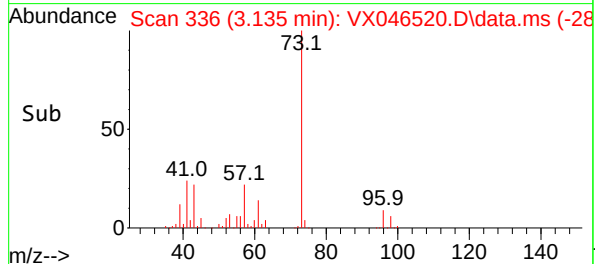
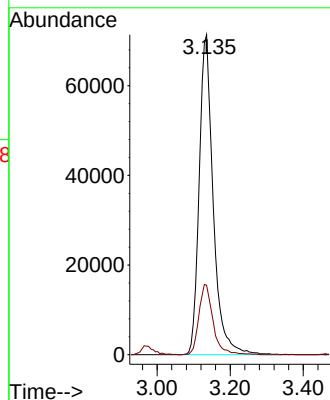
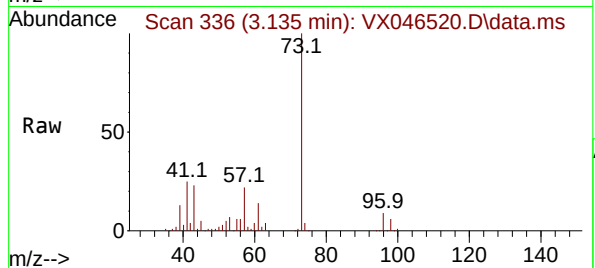
#19
Methyl tert-butyl Ether
Concen: 50.914 ug/l
RT: 3.135 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 73 Resp: 190602
Ion Ratio Lower Upper
73 100
57 21.7 17.7 26.5

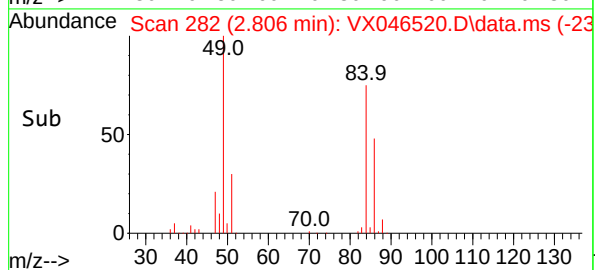
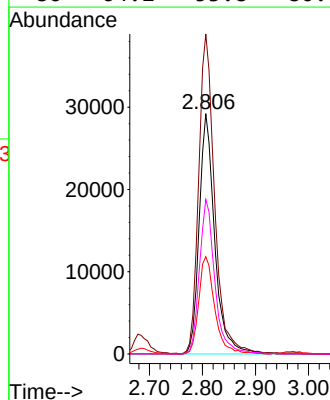
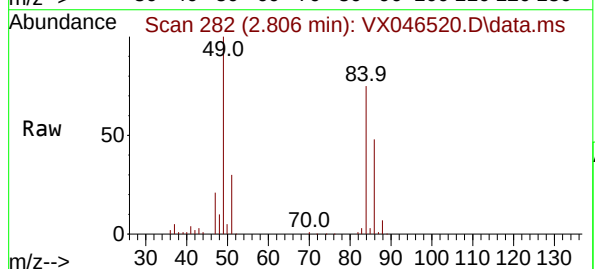
Manual Integrations
APPROVED

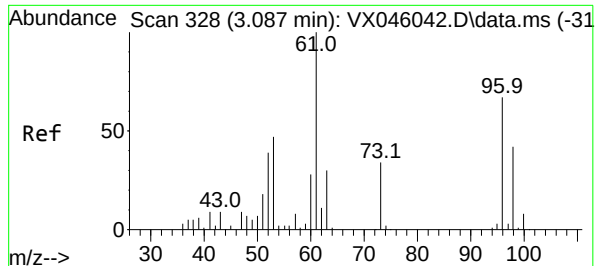
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 46.355 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

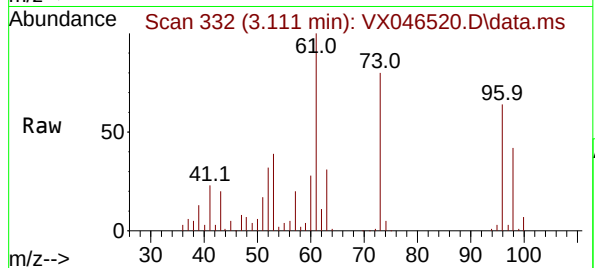
Tgt Ion: 84 Resp: 59622
Ion Ratio Lower Upper
84 100
49 133.1 113.9 170.9
51 40.5 33.5 50.3
86 64.2 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 46.346 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

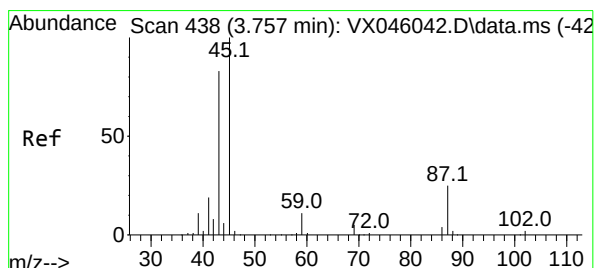
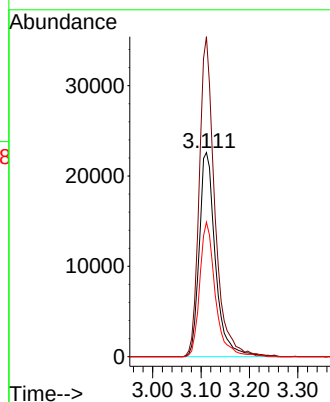
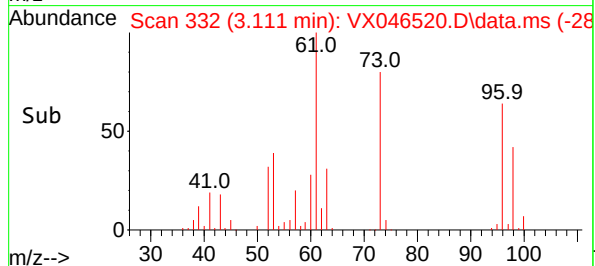
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 96 Resp: 52474
Ion Ratio Lower Upper
96 100
61 156.7 119.5 179.3
98 65.9 50.0 75.0

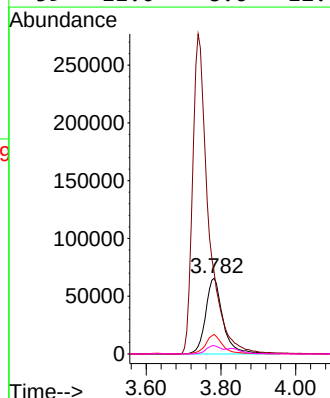
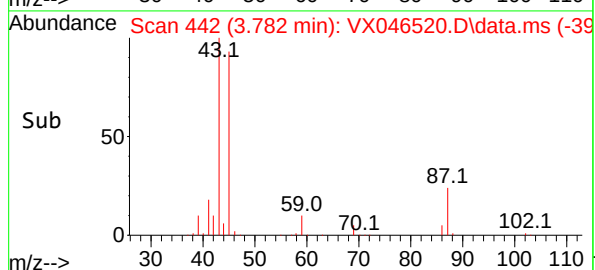
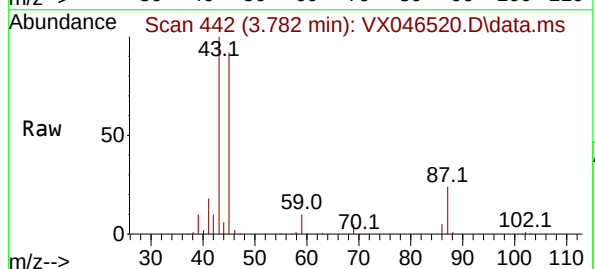
Manual Integrations
APPROVED

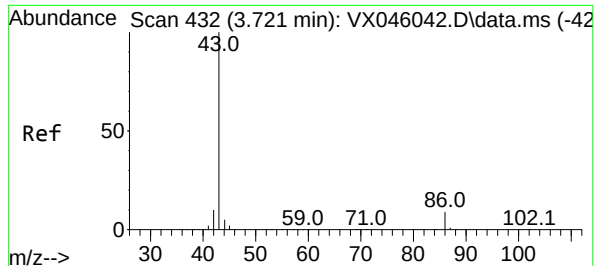
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 50.963 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

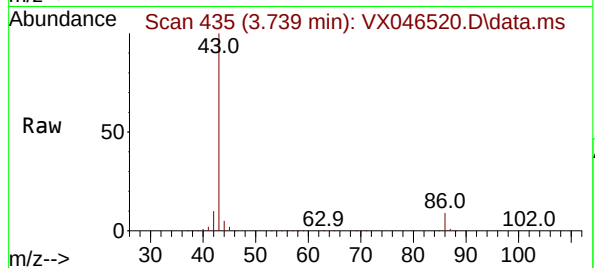
Tgt Ion: 45 Resp: 211118
Ion Ratio Lower Upper
45 100
43 108.0 66.6 100.0#
87 25.8 19.8 29.6
59 11.0 8.6 12.8





#23
Vinyl Acetate
Concen: 257.541 ug/l
RT: 3.739 min Scan# 417
Delta R.T. -0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

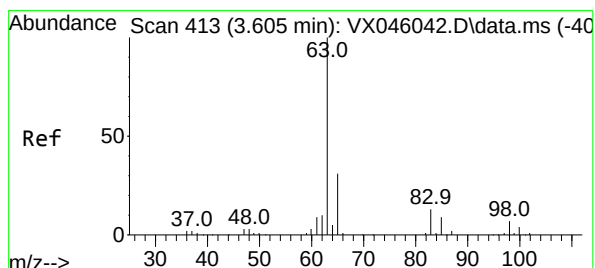
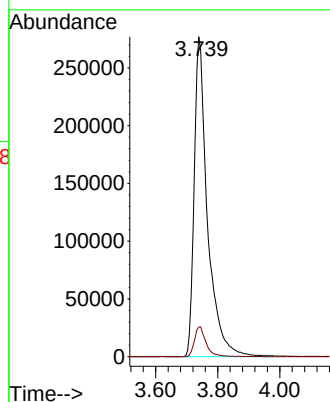
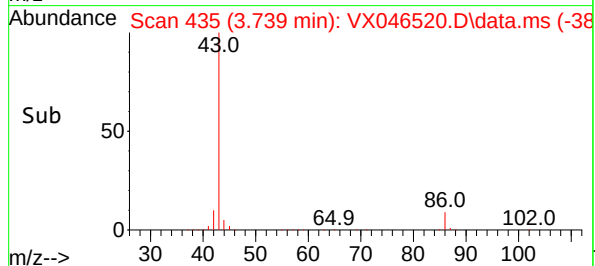
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 82368
Ion Ratio Lower Upper
43 100
86 9.2 7.5 11.3

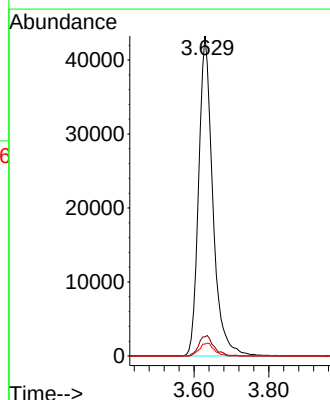
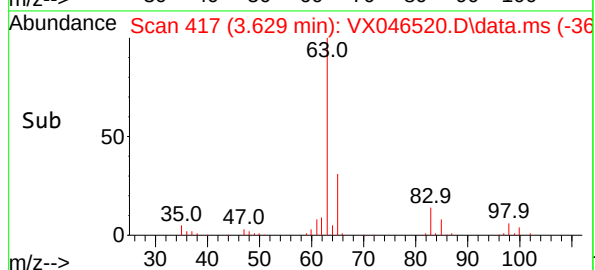
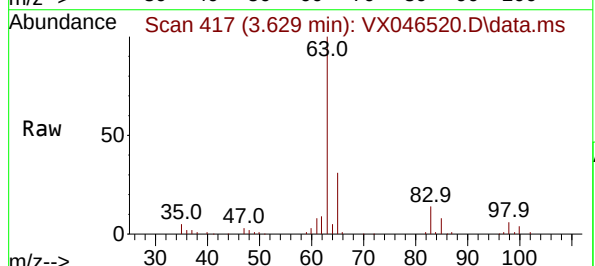
Manual Integrations
APPROVED

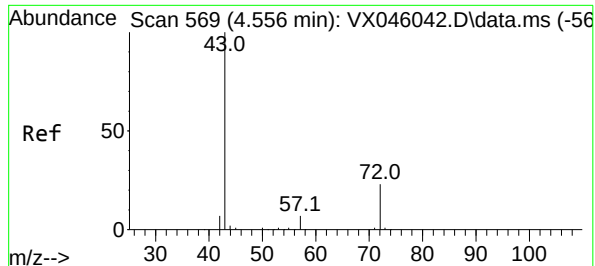
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 49.132 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 63 Resp: 113435
Ion Ratio Lower Upper
63 100
98 5.9 3.6 10.8
100 3.7 2.1 6.3





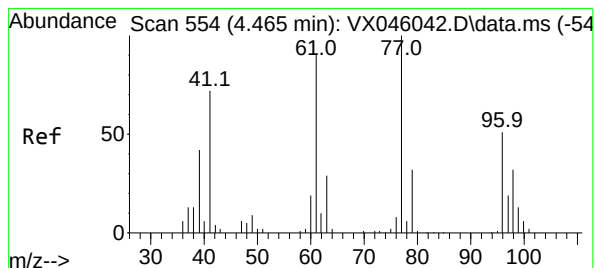
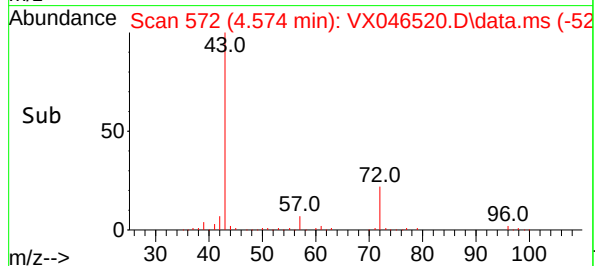
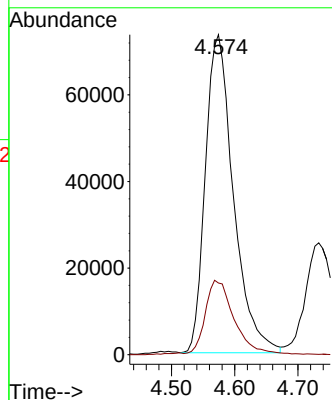
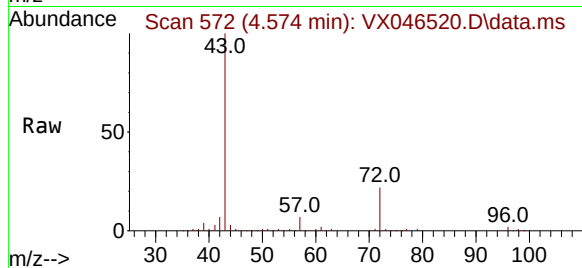
#25
2-Butanone
Concen: 253.975 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 43 Resp: 226668
Ion Ratio Lower Upper
43 100
72 22.0 18.4 27.6

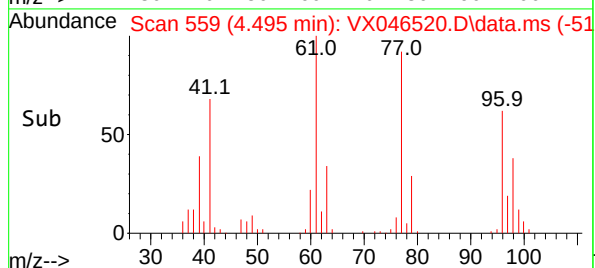
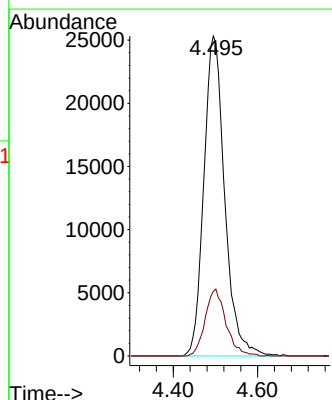
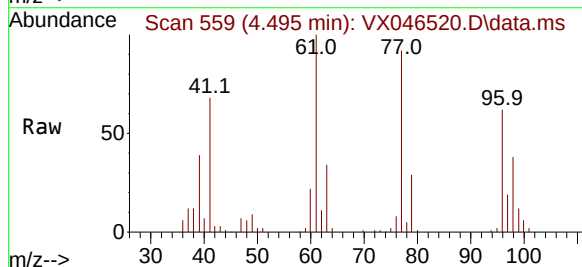
Manual Integrations
APPROVED

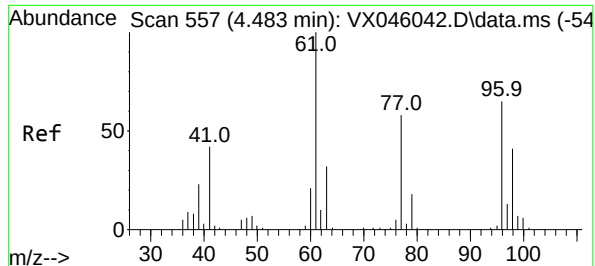
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#26
2,2-Dichloropropane
Concen: 50.783 ug/l
RT: 4.495 min Scan# 559
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 77 Resp: 87040
Ion Ratio Lower Upper
77 100
97 20.9 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 47.898 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 96 Resp: 66760

Ion Ratio Lower Upper

96 100

61 159.5 0.0 322.8

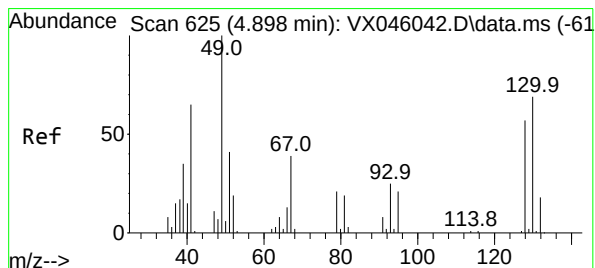
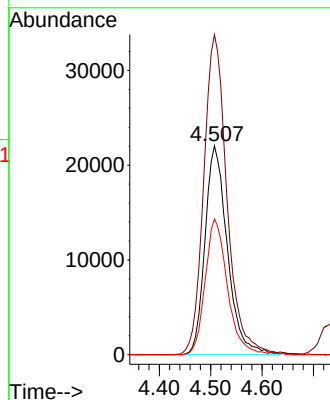
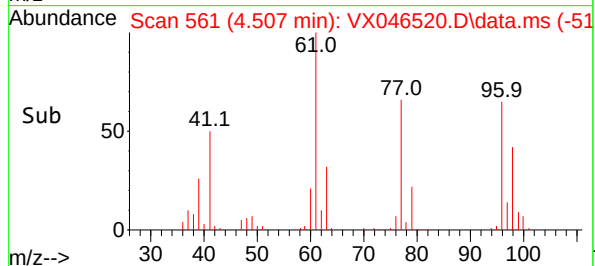
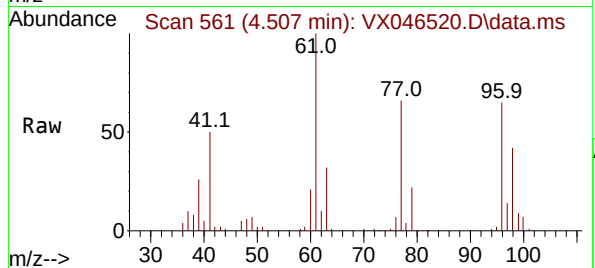
98 64.6 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 48.273 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

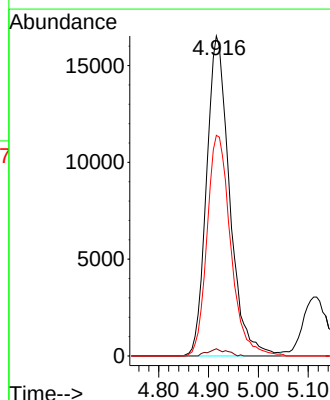
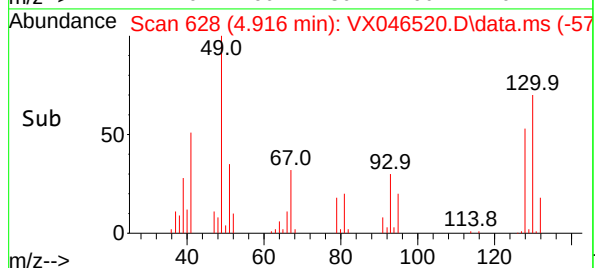
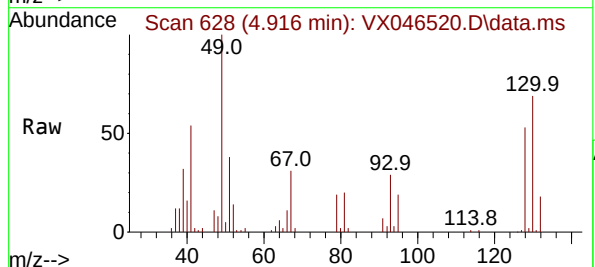
Tgt Ion: 49 Resp: 53158

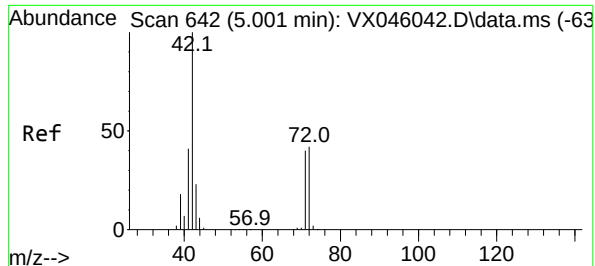
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 70.5 56.2 84.2





#29

Tetrahydrofuran

Concen: 252.427 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 42 Resp: 142270

Ion Ratio Lower Upper

42 100

72 41.5 33.7 50.5

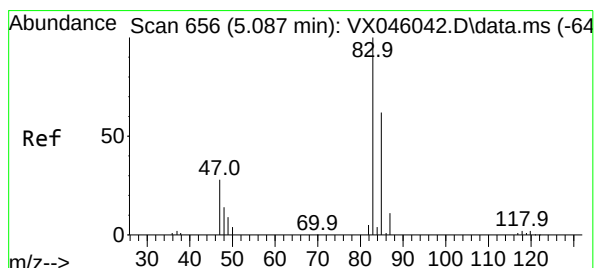
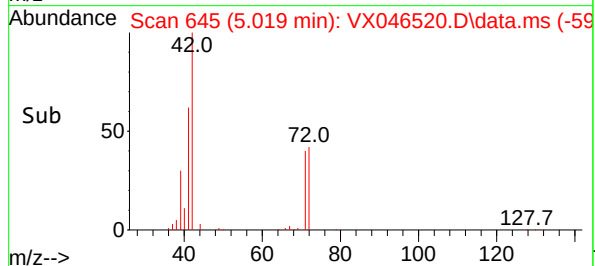
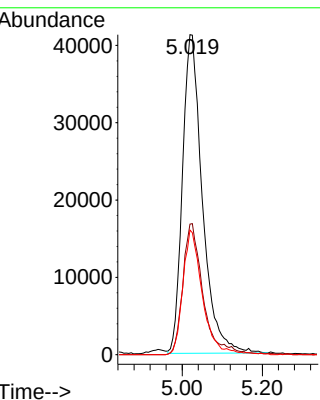
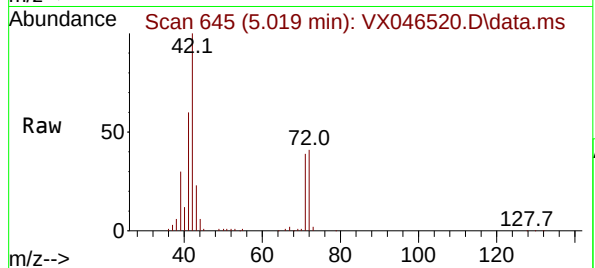
71 38.5 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 49.084 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.000 min

Lab File: VX046520.D

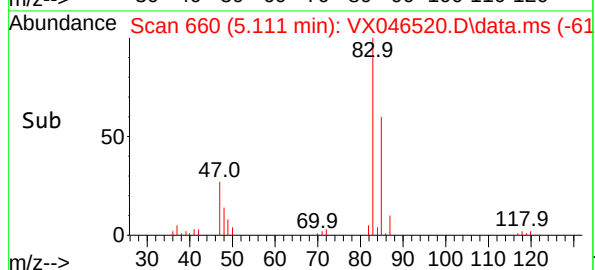
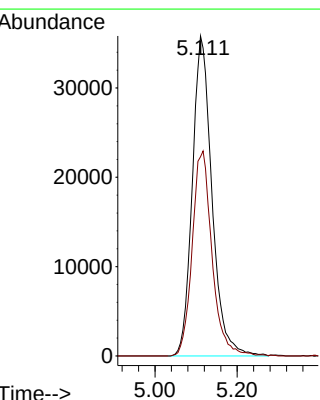
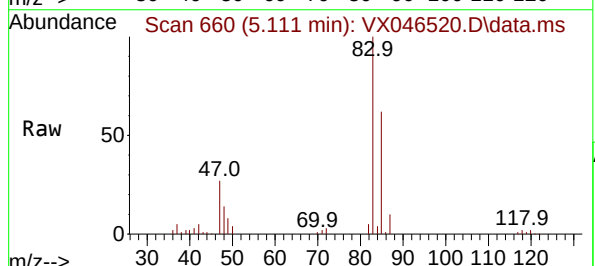
Acq: 06 Jun 2025 10:40

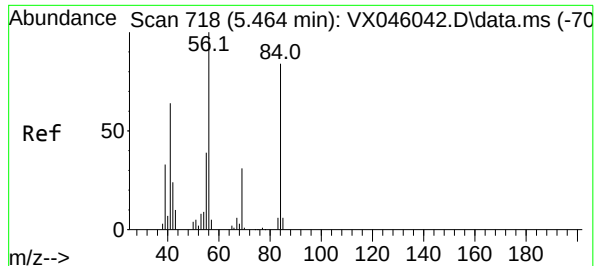
Tgt Ion: 83 Resp: 118738

Ion Ratio Lower Upper

83 100

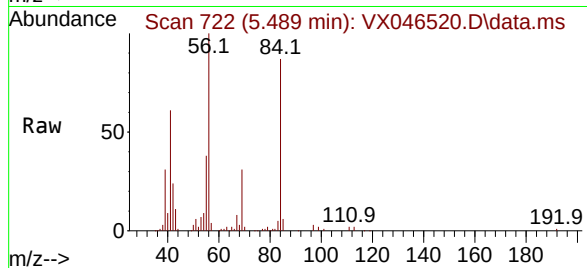
85 62.2 49.3 73.9





#31
Cyclohexane
Concen: 48.110 ug/l
RT: 5.489 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

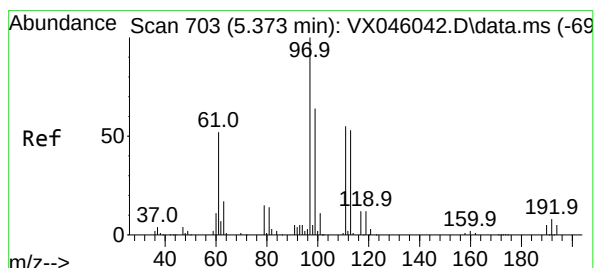
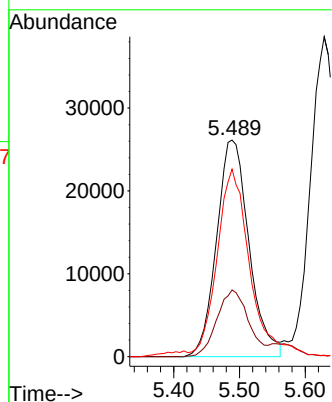
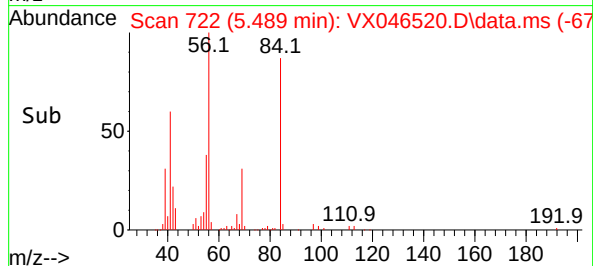
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 56 Resp: 89669
Ion Ratio Lower Upper
56 100
69 30.8 24.4 36.6
84 84.6 66.9 100.3

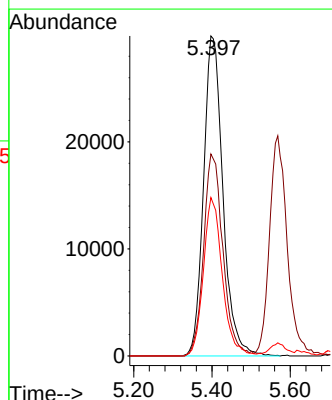
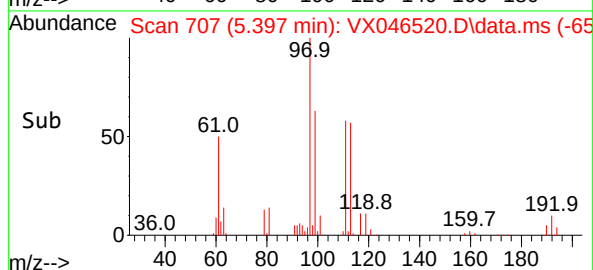
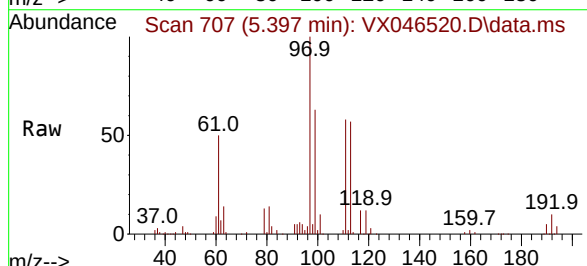
Manual Integrations
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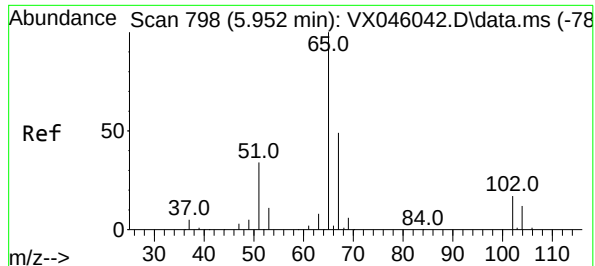
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#32
1,1,1-Trichloroethane
Concen: 49.696 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 97 Resp: 102837
Ion Ratio Lower Upper
97 100
99 62.8 51.8 77.6
61 48.4 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 49.092 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 65 Resp: 78700

Ion Ratio Lower Upper

65 100

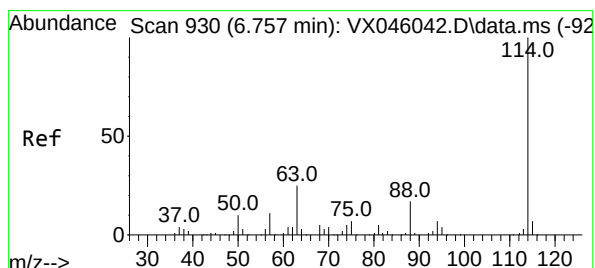
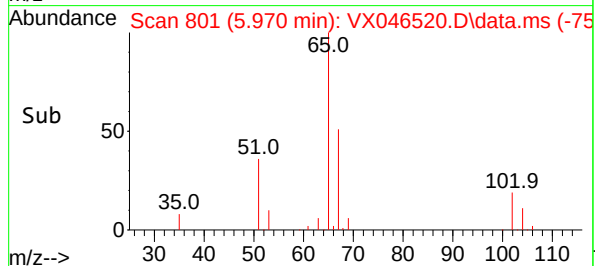
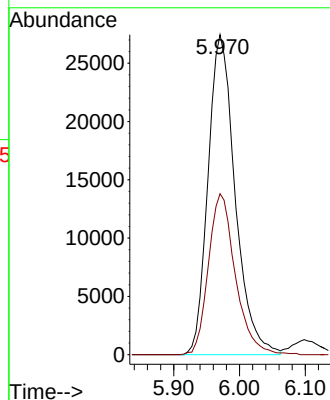
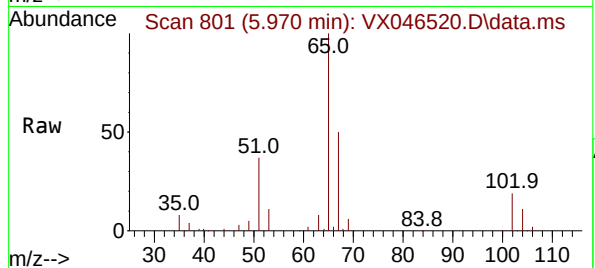
67 50.1 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

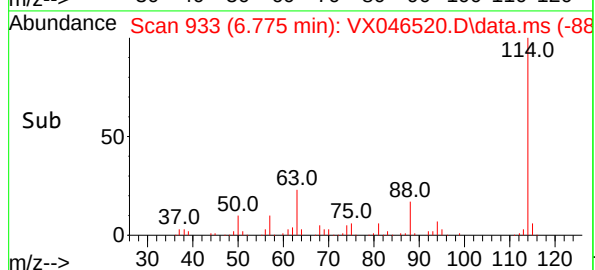
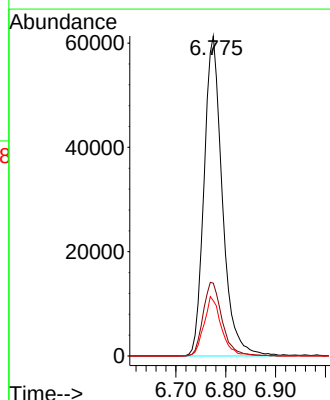
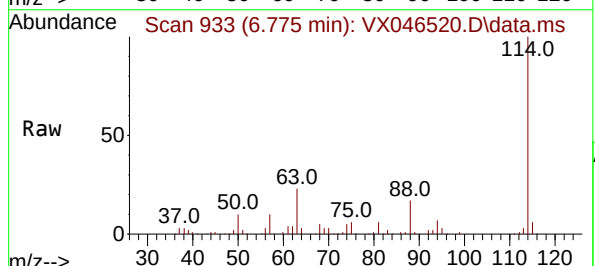
Tgt Ion:114 Resp: 156192

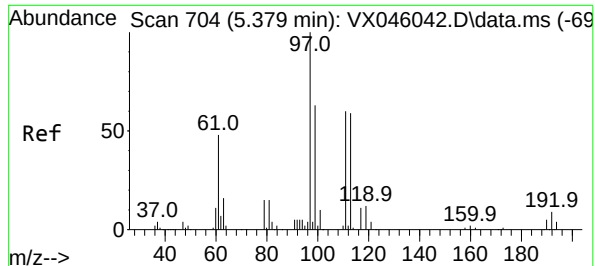
Ion Ratio Lower Upper

114 100

63 22.8 0.0 49.2

88 17.2 0.0 33.6





#35

Dibromofluoromethane

Concen: 49.986 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:113 Resp: 57410

Ion Ratio Lower Upper

113 100

111 103.3 83.1 124.7

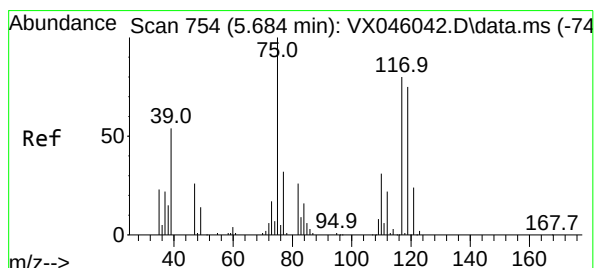
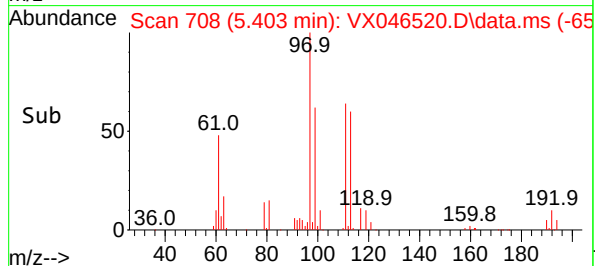
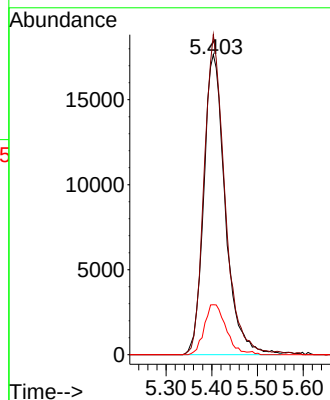
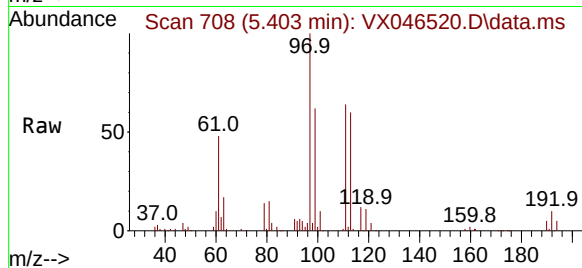
192 17.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 46.165 ug/l

RT: 5.714 min Scan# 759

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

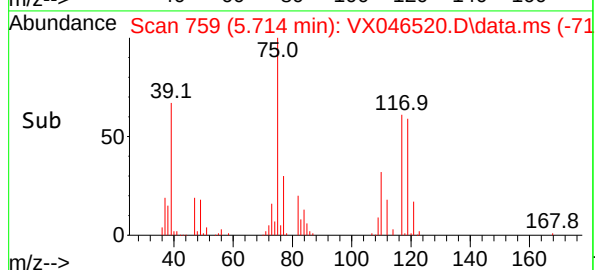
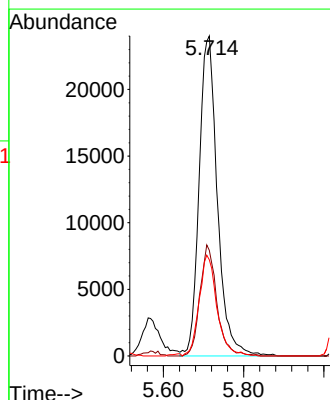
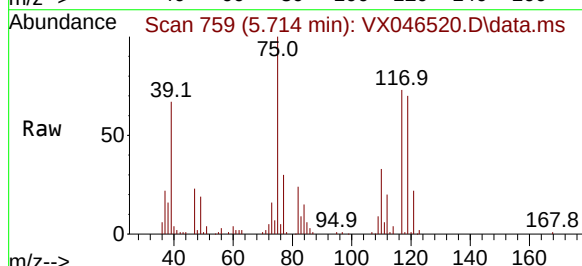
Tgt Ion: 75 Resp: 75745

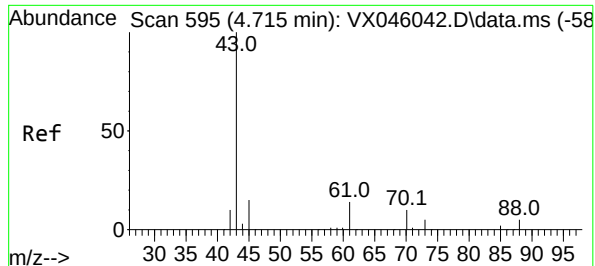
Ion Ratio Lower Upper

75 100

110 32.2 16.3 48.9

77 30.8 24.3 36.5





#37

Ethyl Acetate

Concen: 54.042 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

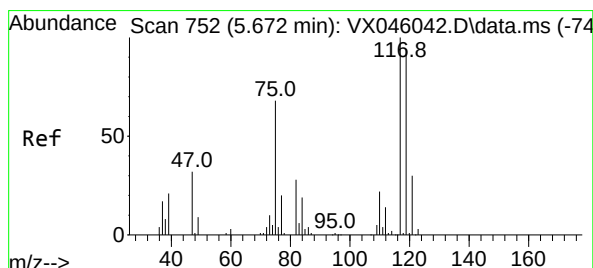
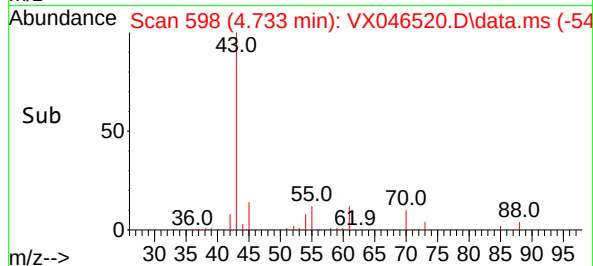
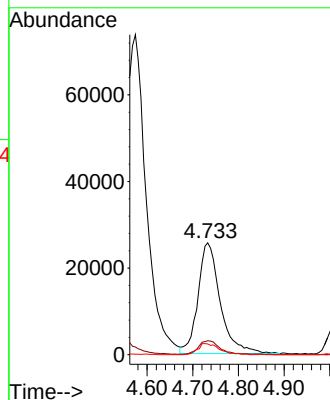
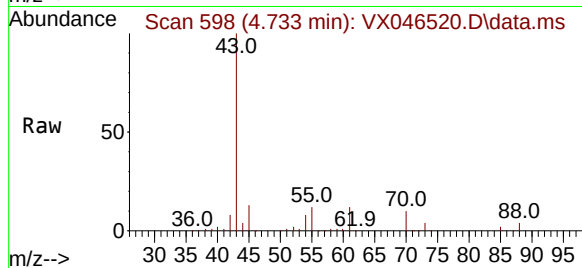
Tgt Ion: 43	Resp: 8652
Ion Ratio	Lower Upper
43 100	
61 11.7	10.3 15.5
70 9.7	7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 47.920 ug/l

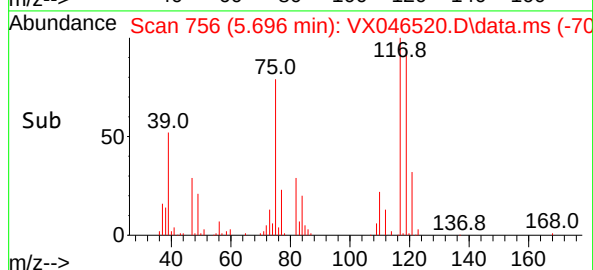
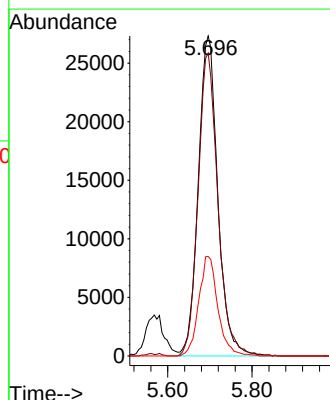
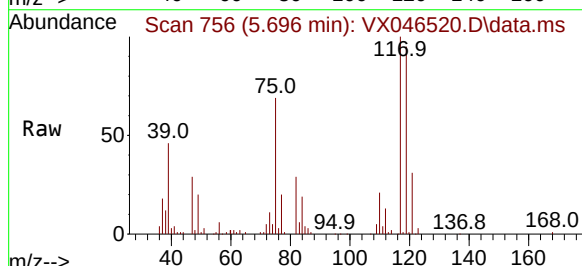
RT: 5.696 min Scan# 756

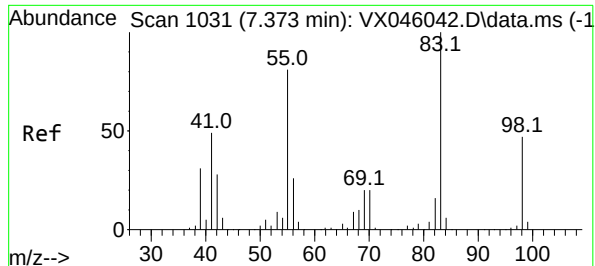
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion: 117	Resp: 88063
Ion Ratio	Lower Upper
117 100	
119 94.6	75.2 112.8
121 31.1	24.2 36.4





#39

Methylcyclohexane

Concen: 46.141 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

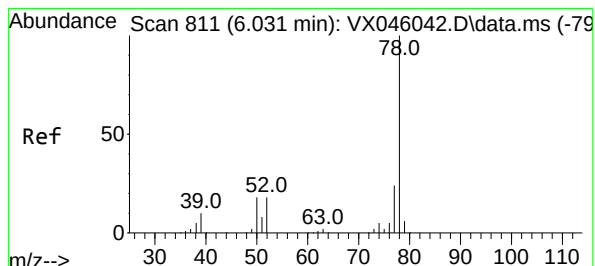
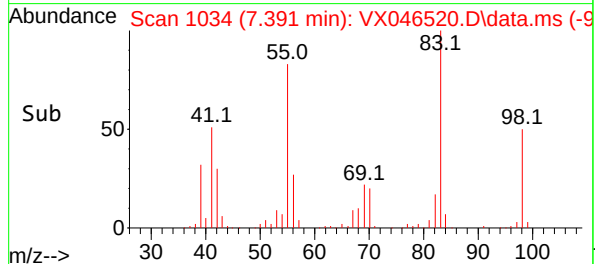
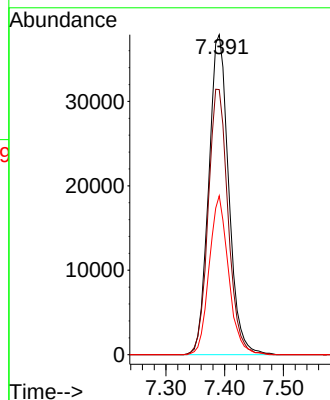
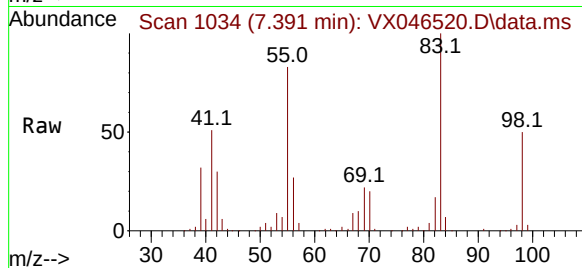
Tgt Ion:	83	Resp:	8935
Ion	Ratio	Lower	Upper
83	100		
55	82.9	64.7	97.1
98	49.6	37.4	56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 48.257 ug/l

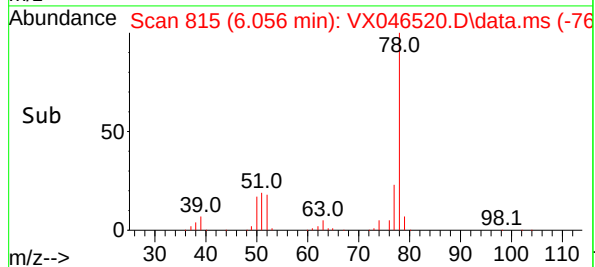
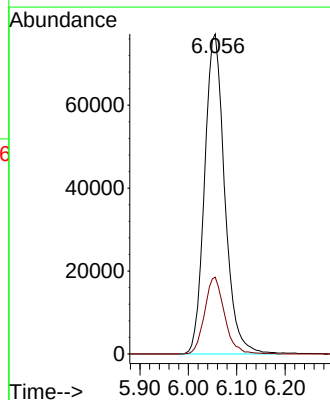
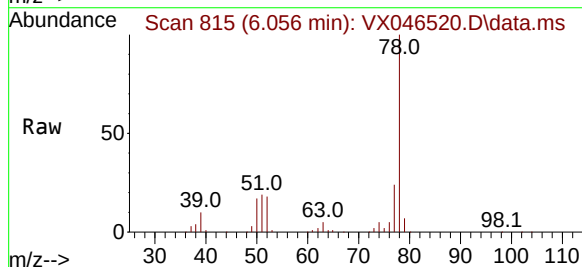
RT: 6.056 min Scan# 815

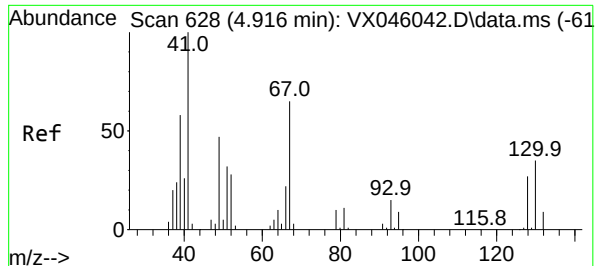
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

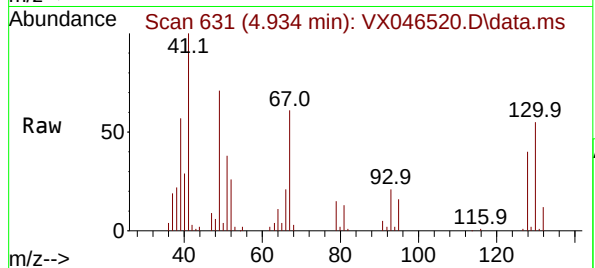
Tgt Ion:	78	Resp:	222898
Ion	Ratio	Lower	Upper
78	100		
77	24.0	19.0	28.4





#41
Methacrylonitrile
Concen: 50.720 ug/l
RT: 4.934 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

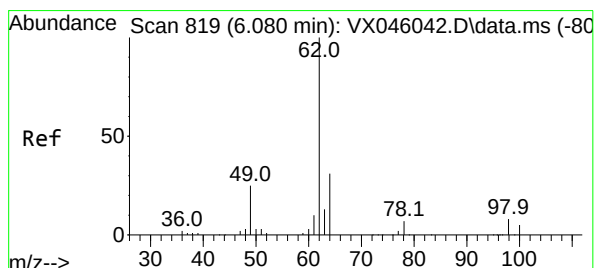
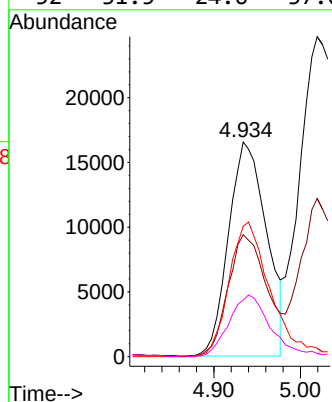
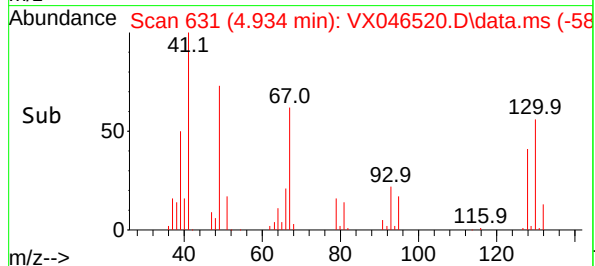
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 41 Resp: 5043
Ion Ratio Lower Upper
41 100
39 60.1 47.2 70.8
67 69.1 50.7 76.1
52 31.5 24.6 37.0

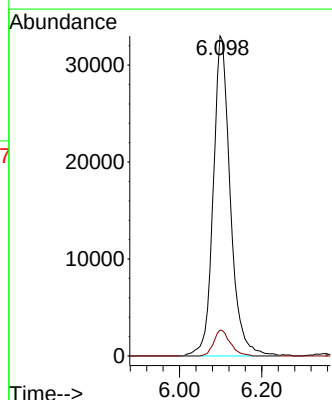
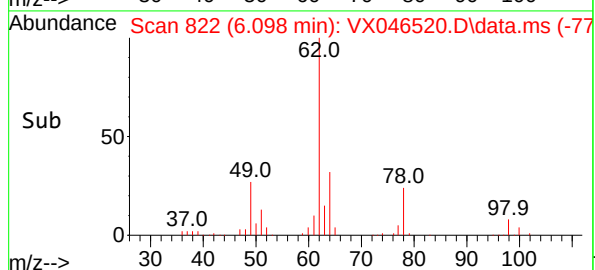
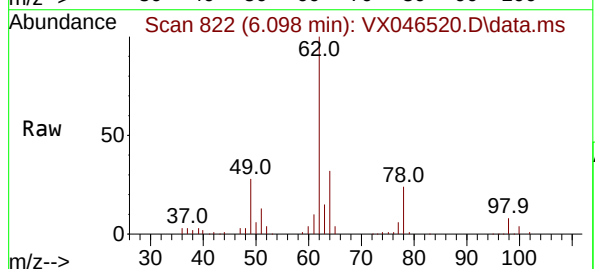
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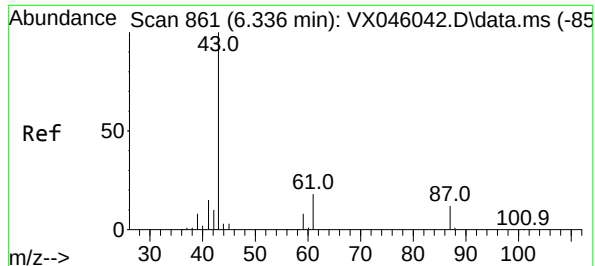
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 49.590 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 62 Resp: 95292
Ion Ratio Lower Upper
62 100
98 7.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 51.653 ug/l

RT: 6.354 min Scan# 864

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 144198

Ion Ratio Lower Upper

43

100

61

17.7

87

11.4

14.3

9.5

21.5

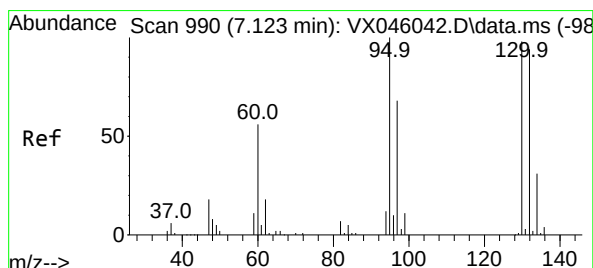
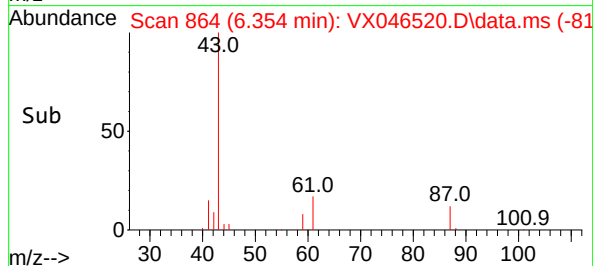
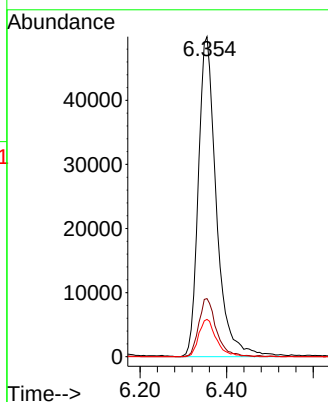
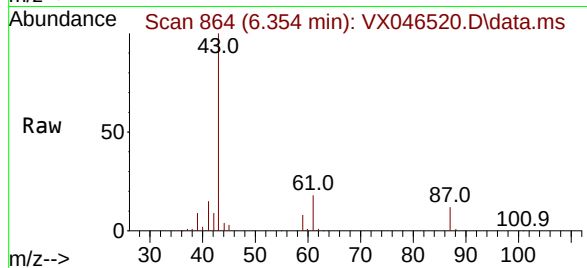
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 46.686 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Tgt Ion:130 Resp: 54791

Ion Ratio Lower Upper

130

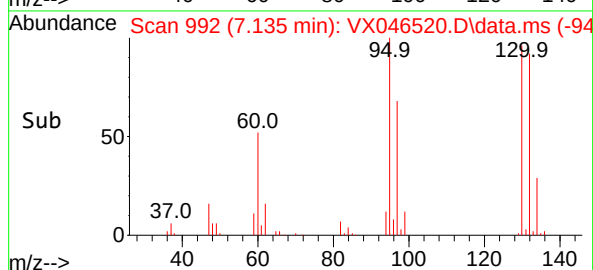
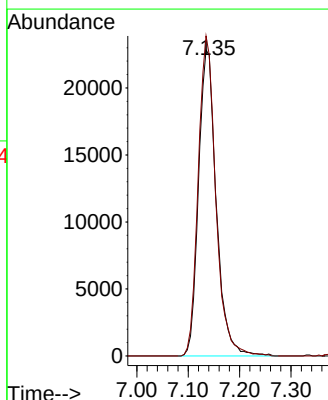
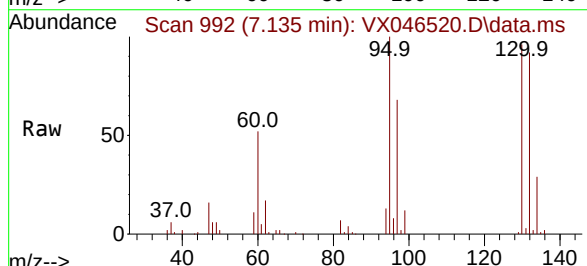
100

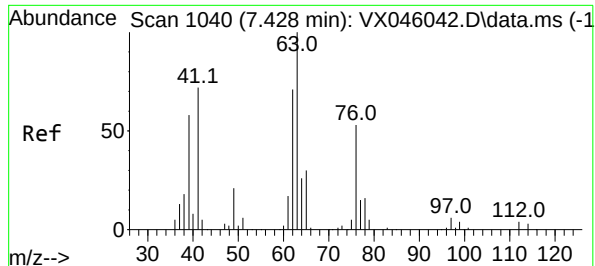
95

104.6

0.0

204.2





#45

1,2-Dichloropropane

Concen: 49.904 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 63 Resp: 5949

Ion Ratio Lower Upper

63 100

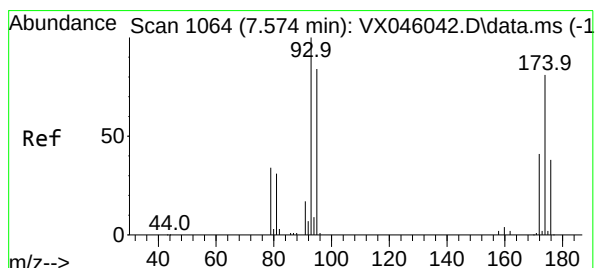
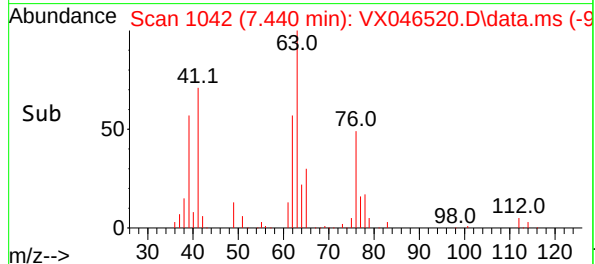
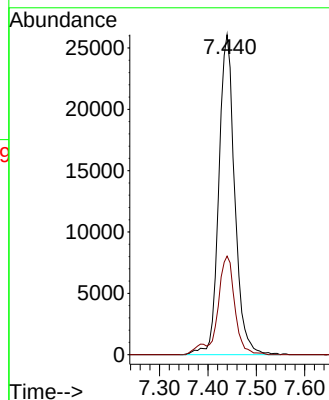
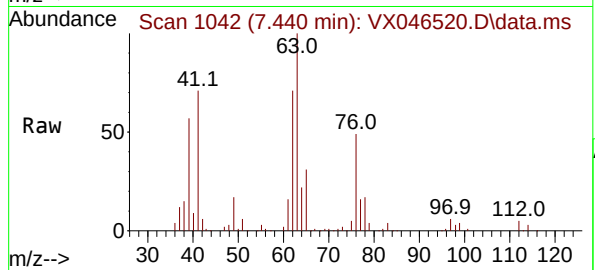
65 30.8 24.1 36.1

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 48.609 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

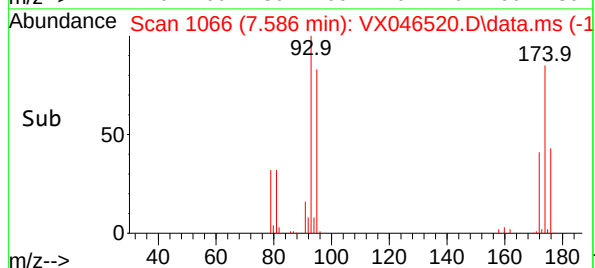
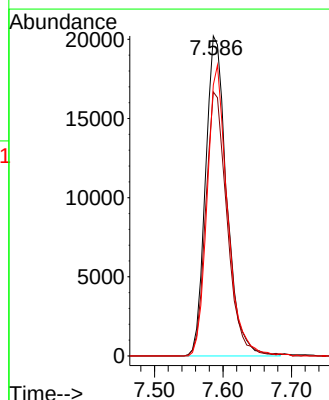
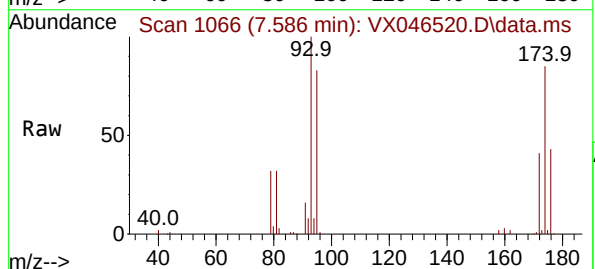
Tgt Ion: 93 Resp: 43598

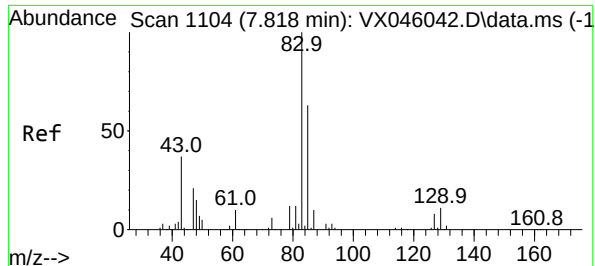
Ion Ratio Lower Upper

93 100

95 83.2 65.6 98.4

174 87.0 68.2 102.2





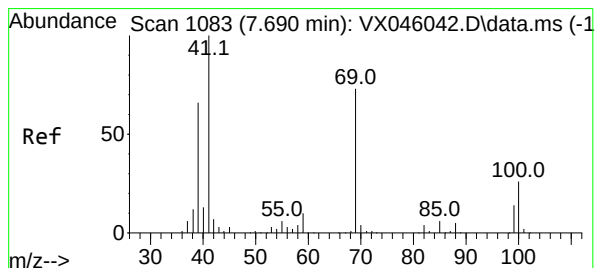
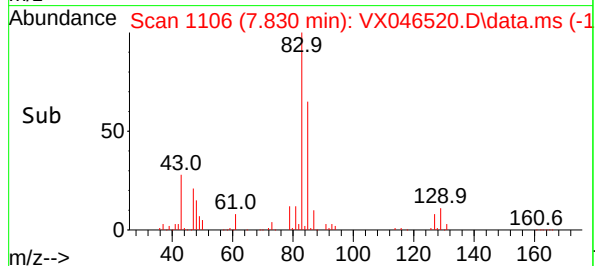
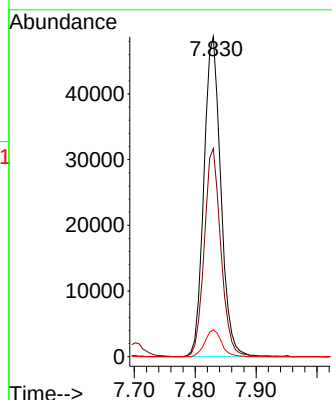
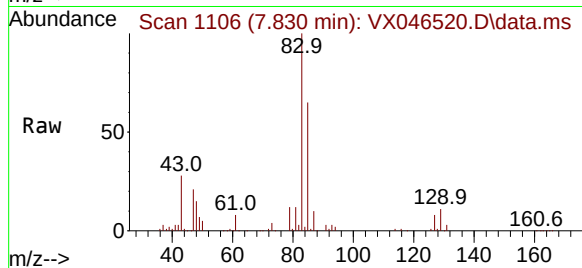
#47
Bromodichloromethane
Concen: 51.052 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 83 Resp: 94149
Ion Ratio Lower Upper
83 100
85 65.0 50.5 75.7
127 8.4 6.5 9.7

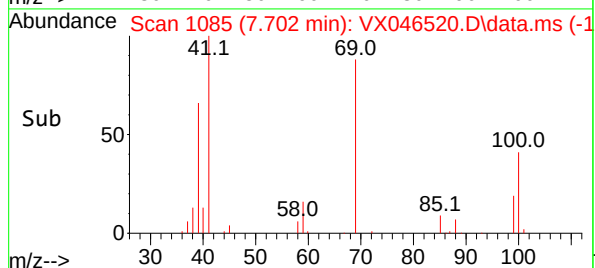
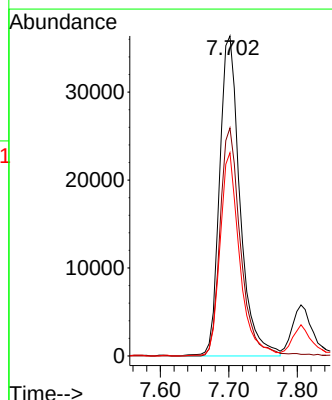
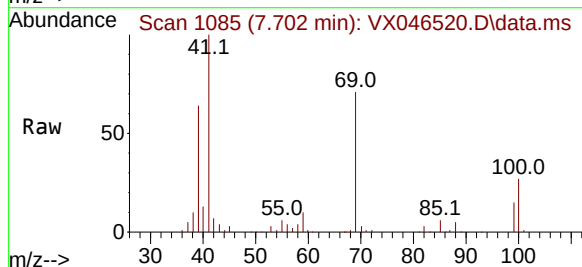
Manual Integrations
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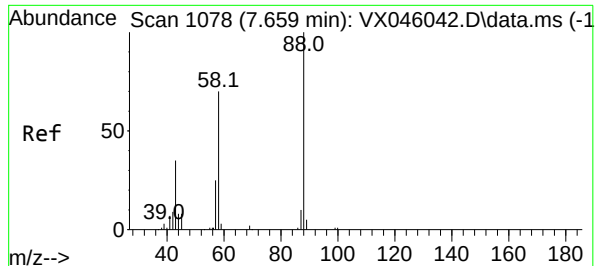
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#48
Methyl methacrylate
Concen: 52.285 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 41 Resp: 75100
Ion Ratio Lower Upper
41 100
69 71.3 58.5 87.7
39 60.9 51.7 77.5





#49

1,4-Dioxane

Concen: 1031.079 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

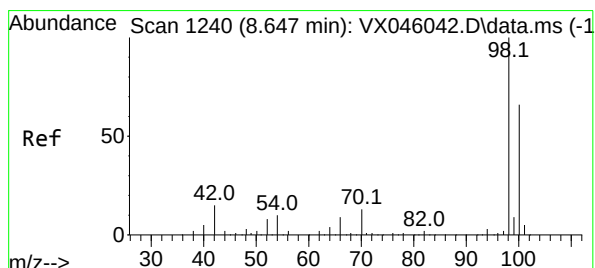
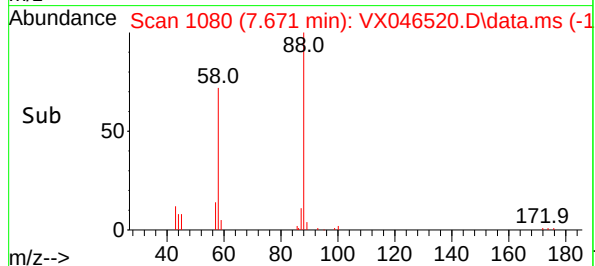
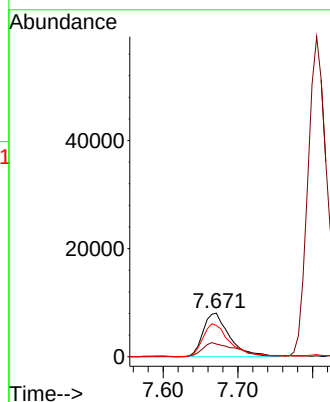
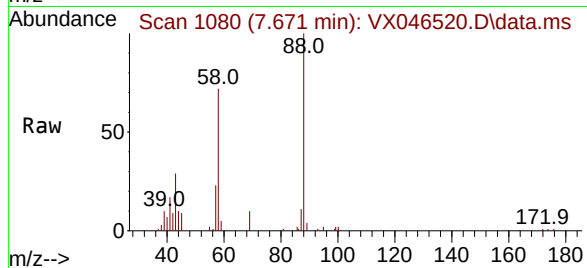
Tgt Ion:	88	Resp:	1980
Ion	Ratio	Lower	Upper
88	100		
43	41.6	33.4	50.2
58	76.4	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 49.000 ug/l

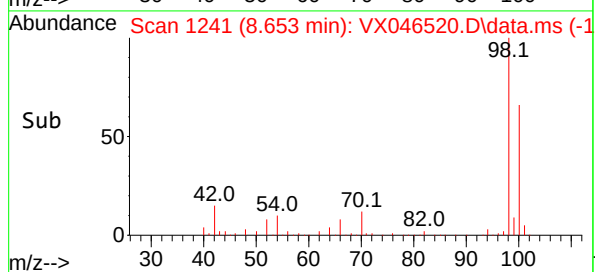
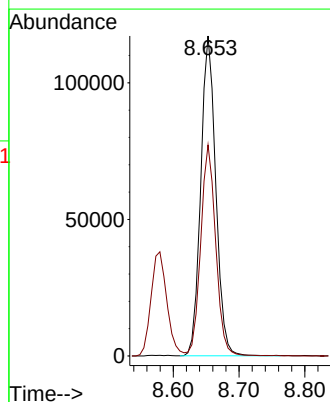
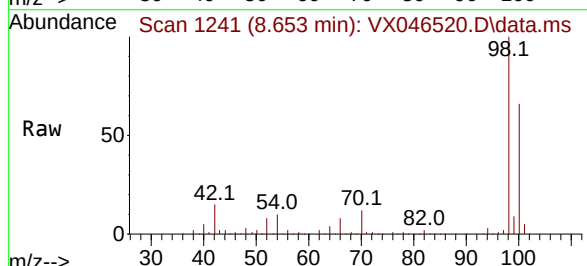
RT: 8.653 min Scan# 1241

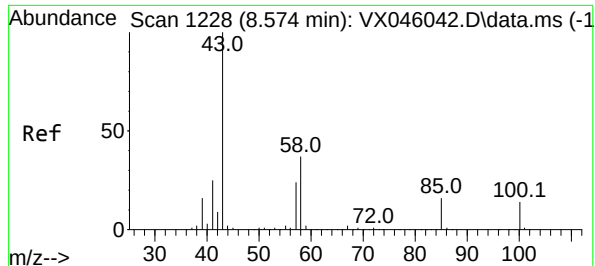
Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

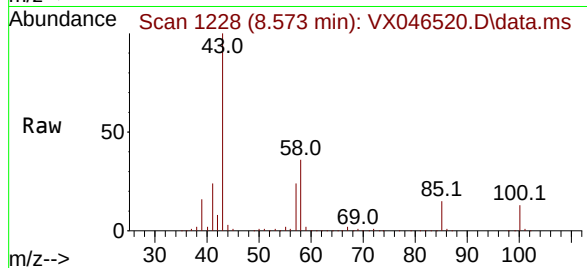
Tgt Ion:	98	Resp:	185557
Ion	Ratio	Lower	Upper
98	100		
100	65.8	53.5	80.3





#51
4-Methyl-2-Pentanone
Concen: 260.948 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

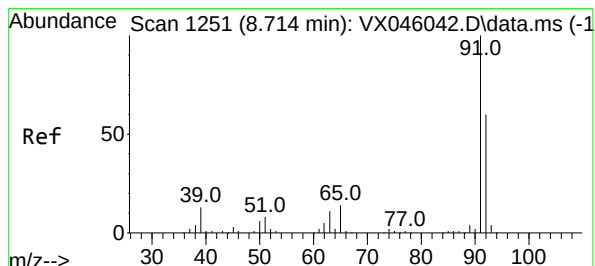
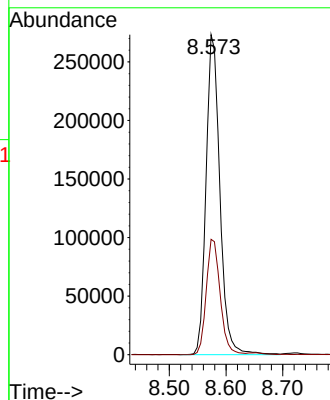
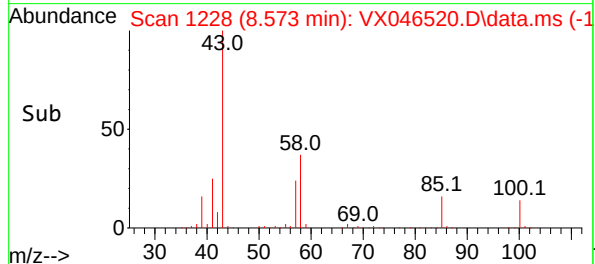
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 43 Resp: 462924
Ion Ratio Lower Upper
43 100
58 36.3 28.9 43.3

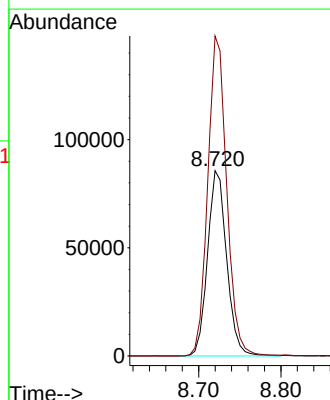
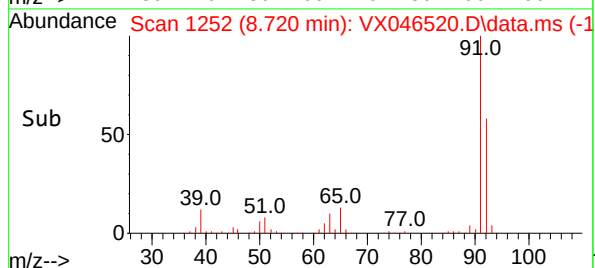
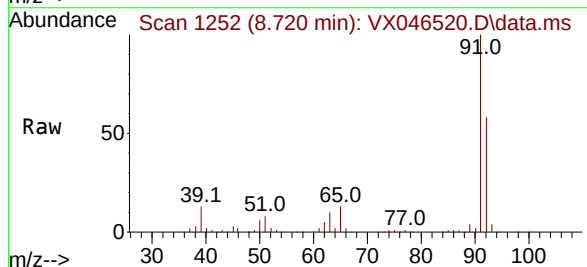
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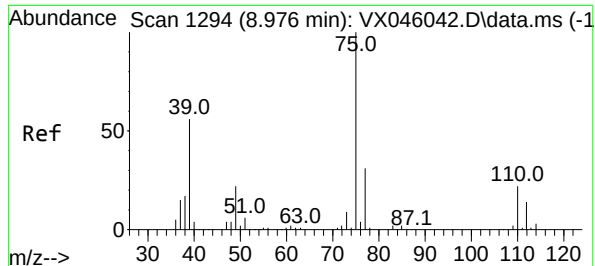
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 48.677 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 92 Resp: 138129
Ion Ratio Lower Upper
92 100
91 171.9 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 51.223 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 75 Resp: 8469

Ion Ratio Lower Upper

75 100

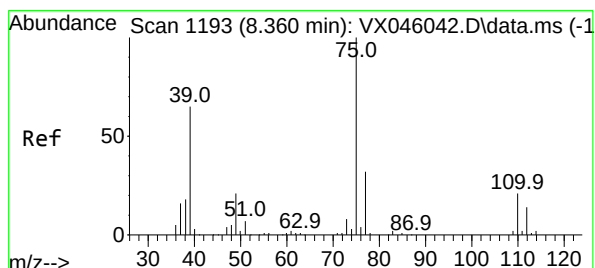
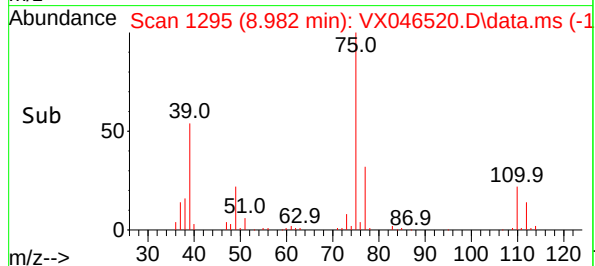
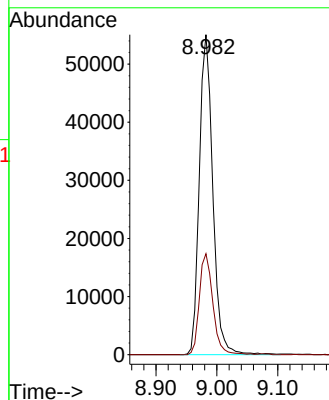
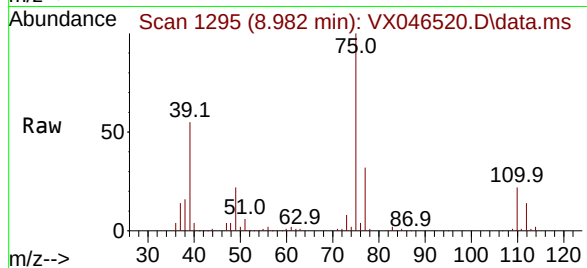
77 31.5 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 50.089 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

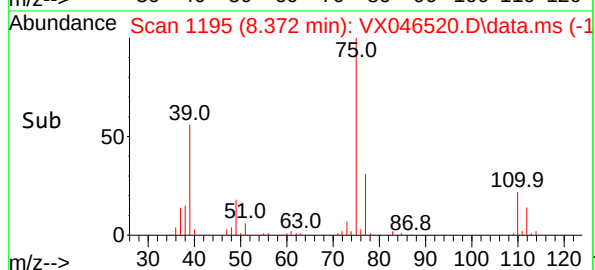
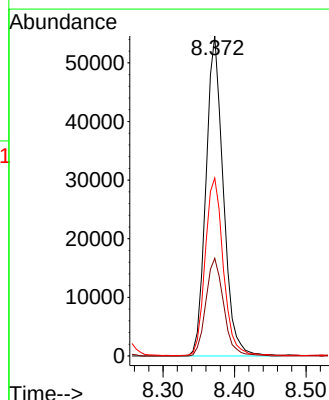
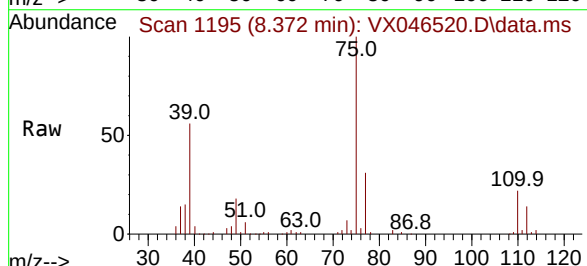
Tgt Ion: 75 Resp: 92087

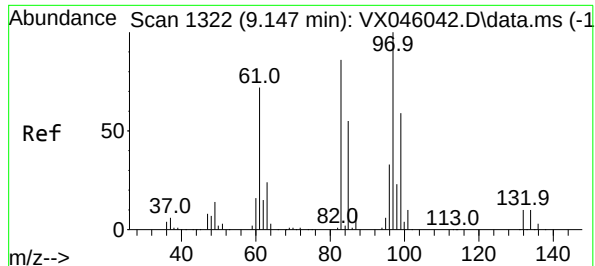
Ion Ratio Lower Upper

75 100

77 30.5 25.4 38.0

39 55.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 50.162 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 97 Resp: 5714

Ion Ratio Lower Upper

97 100

83 88.2 69.0 103.6

85 55.0 44.3 66.5

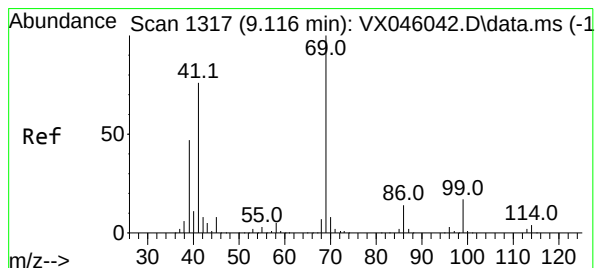
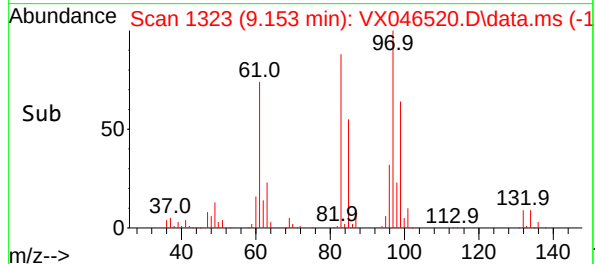
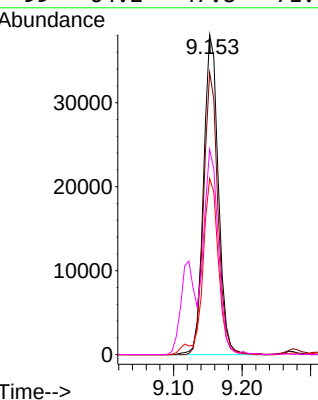
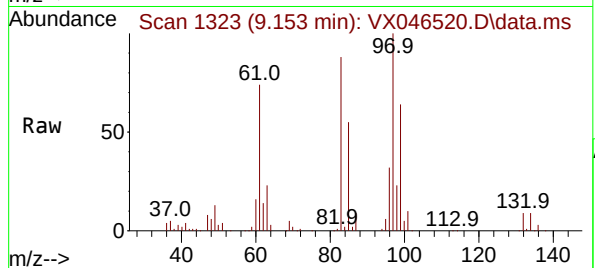
99 64.2 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 51.943 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

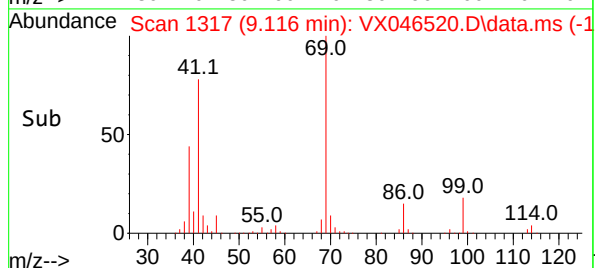
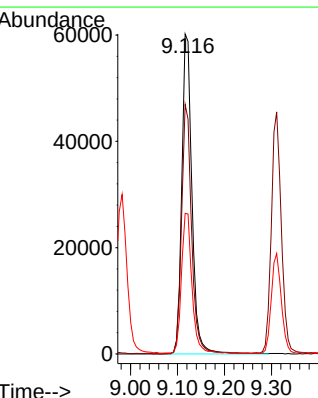
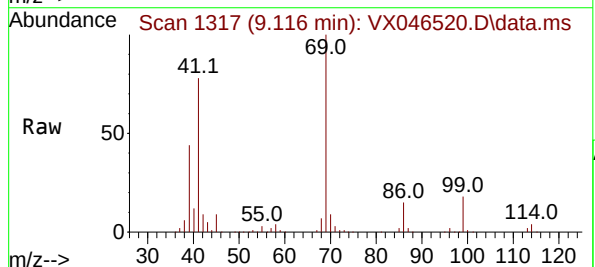
Tgt Ion: 69 Resp: 91058

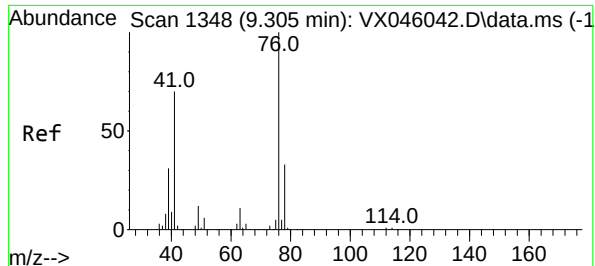
Ion Ratio Lower Upper

69 100

41 77.1 60.8 91.2

39 45.6 39.0 58.6





#57

1,3-Dichloropropane

Concen: 49.312 ug/l

RT: 9.311 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 76 Resp: 9927

Ion Ratio Lower Upper

76 100

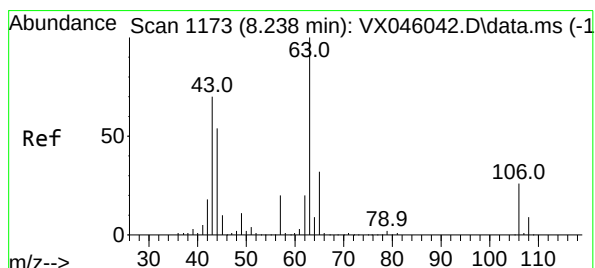
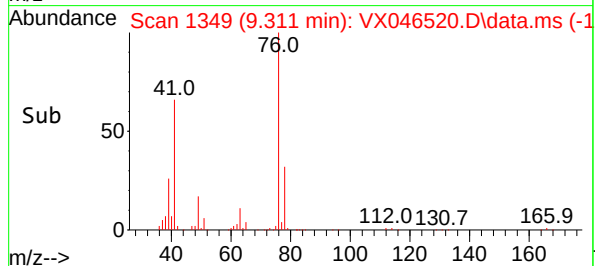
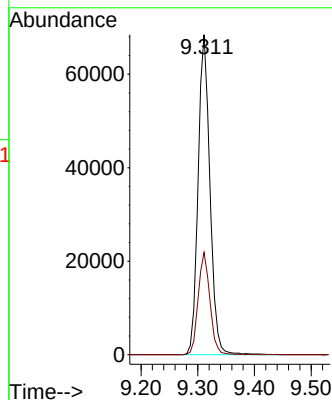
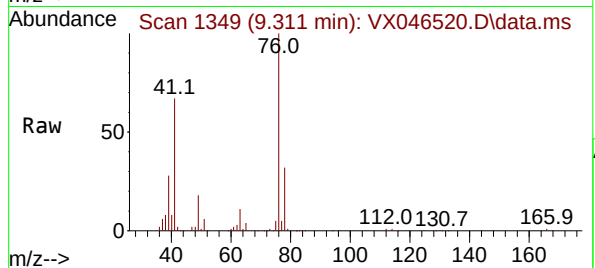
78 31.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 258.184 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046520.D

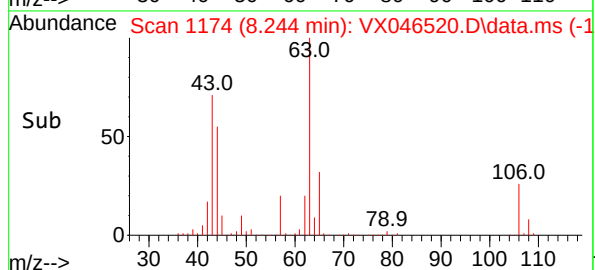
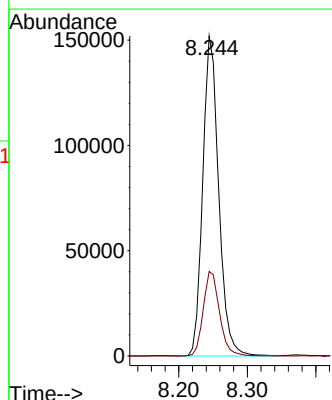
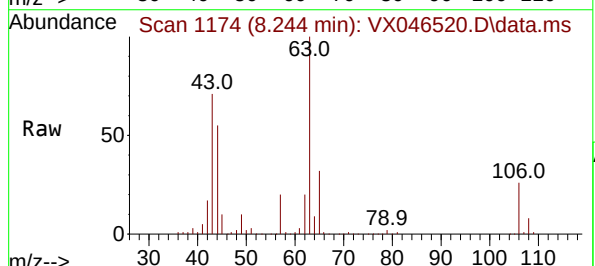
Acq: 06 Jun 2025 10:40

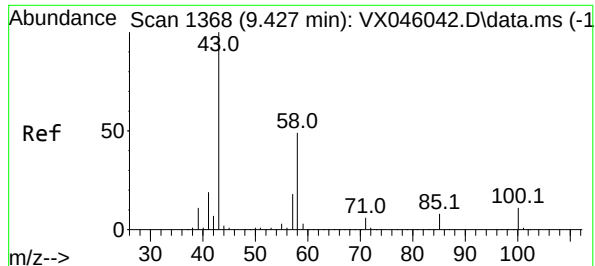
Tgt Ion: 63 Resp: 246532

Ion Ratio Lower Upper

63 100

106 27.0 21.5 32.3





#59

2-Hexanone

Concen: 261.746 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 43 Resp: 333019

Ion Ratio Lower Upper

43 100

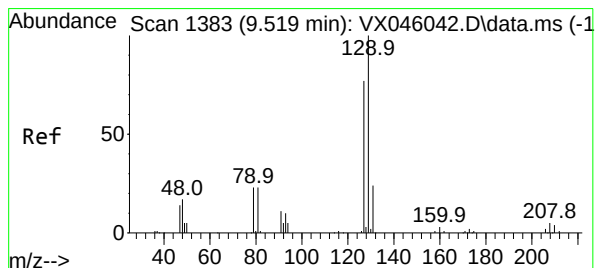
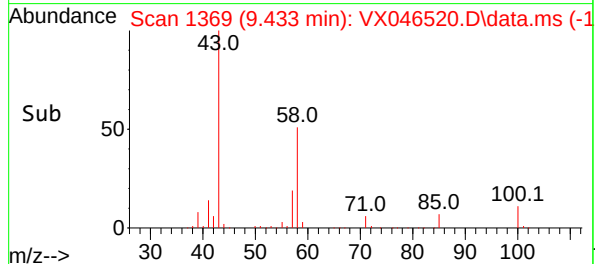
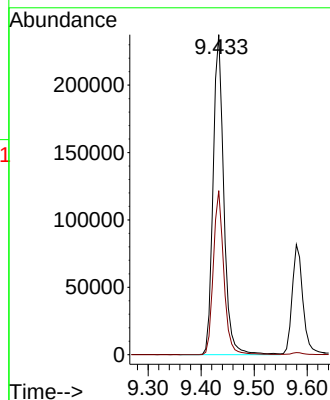
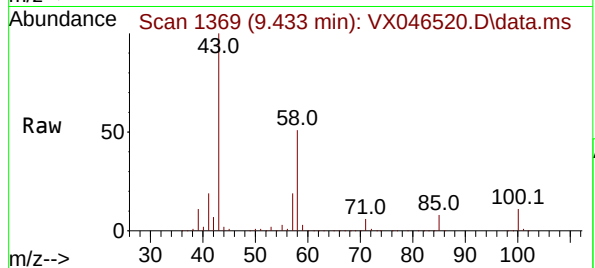
58 50.3 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 50.307 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VX046520.D

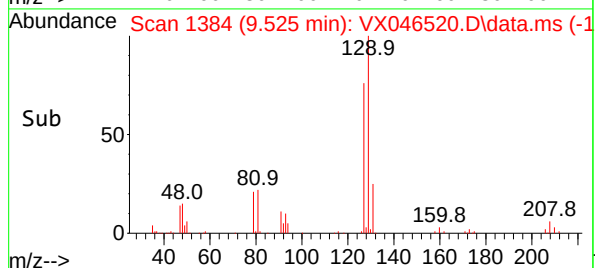
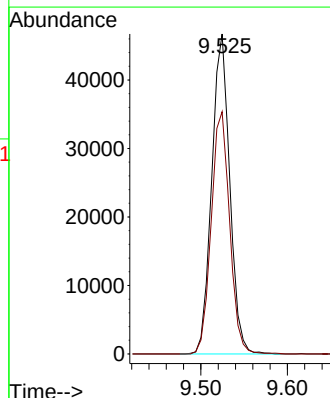
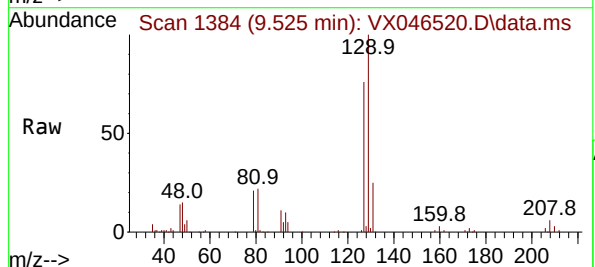
Acq: 06 Jun 2025 10:40

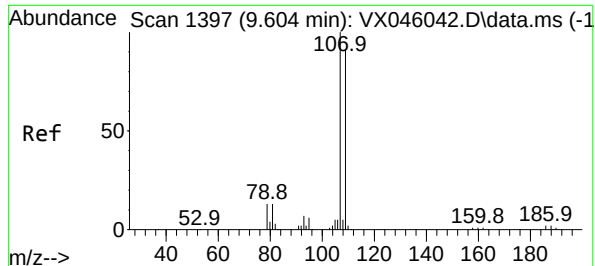
Tgt Ion:129 Resp: 67410

Ion Ratio Lower Upper

129 100

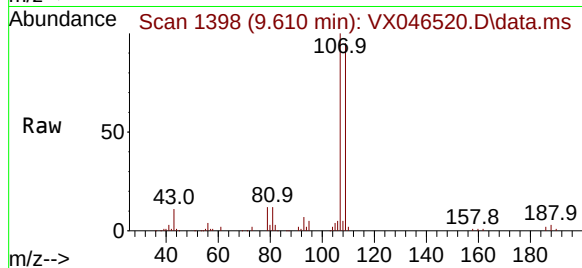
127 77.5 39.3 117.8





#61
1,2-Dibromoethane
Concen: 48.669 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

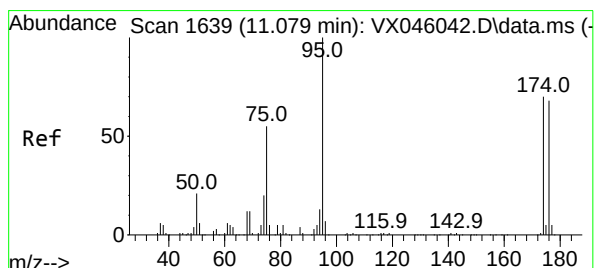
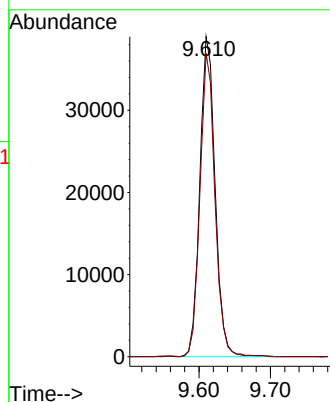
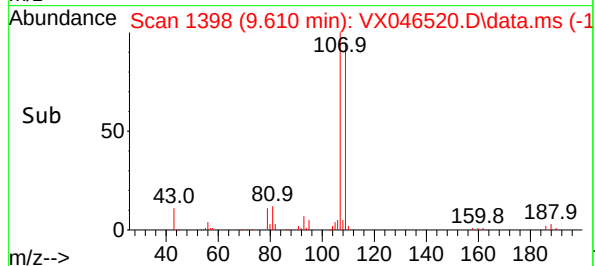
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:107 Resp: 57774
Ion Ratio Lower Upper
107 100
109 93.0 73.3 109.9

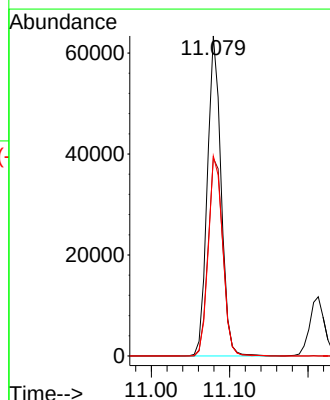
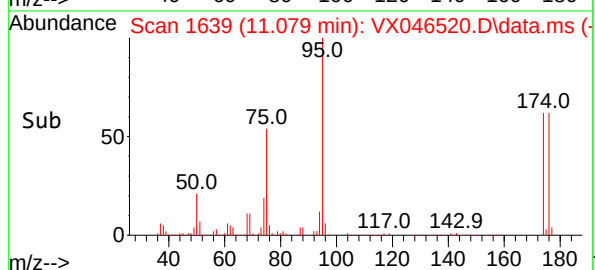
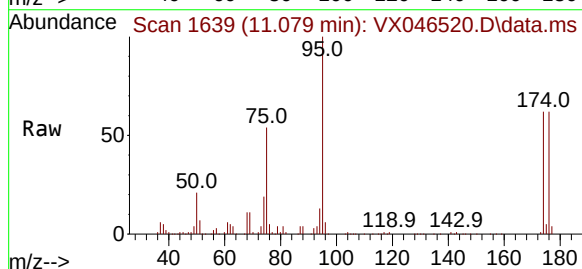
Manual Integrations
APPROVED

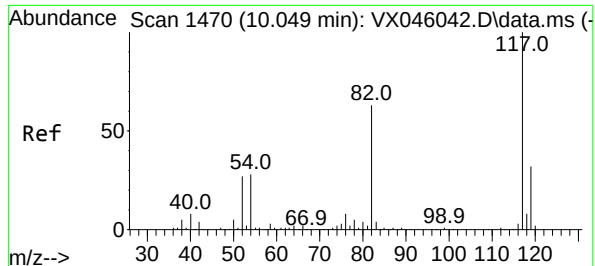
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 49.137 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

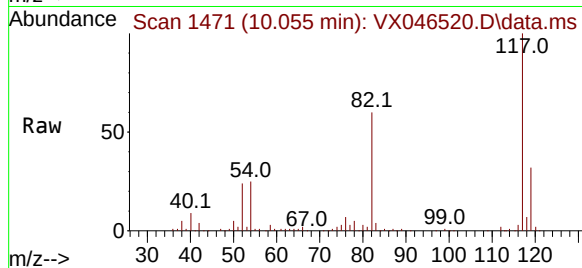
Tgt Ion: 95 Resp: 76988
Ion Ratio Lower Upper
95 100
174 66.0 0.0 135.8
176 65.3 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

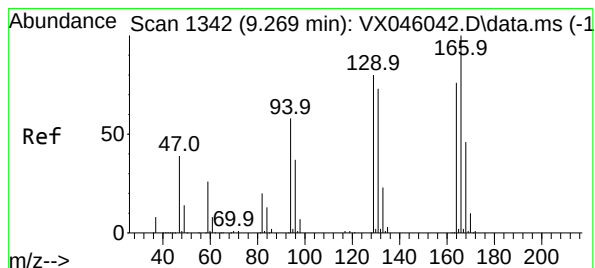
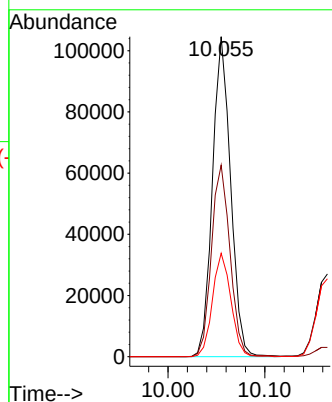
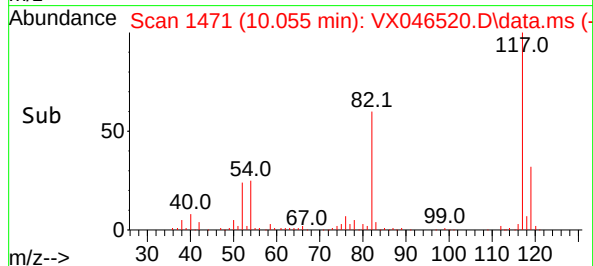
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:117 Resp: 136564
Ion Ratio Lower Upper
117 100
82 59.9 50.6 76.0
119 32.3 25.8 38.6

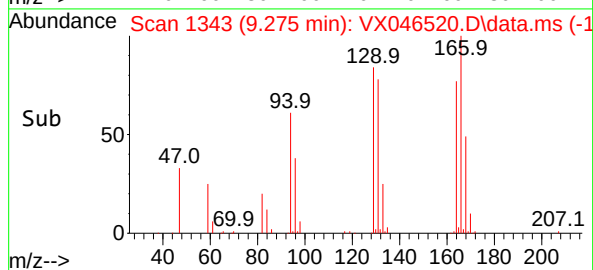
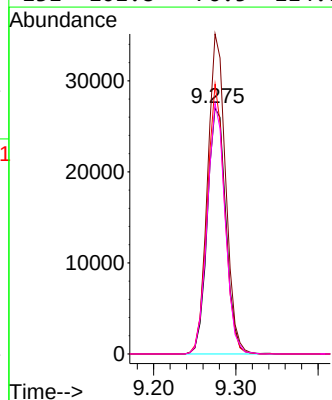
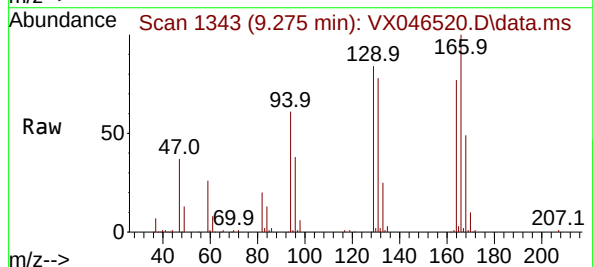
Manual Integrations
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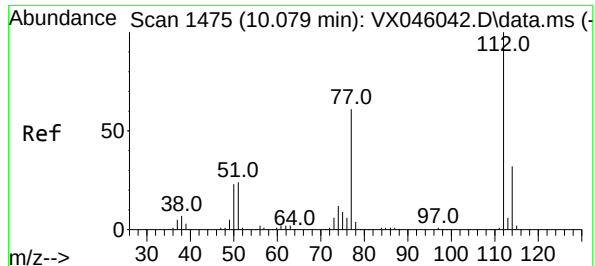
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 46.308 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:164 Resp: 42288
Ion Ratio Lower Upper
164 100
166 130.2 105.0 157.6
129 109.7 83.5 125.3
131 101.8 76.5 114.7





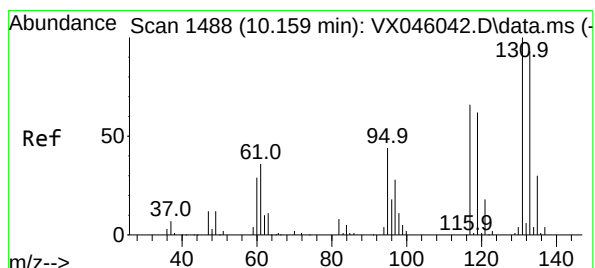
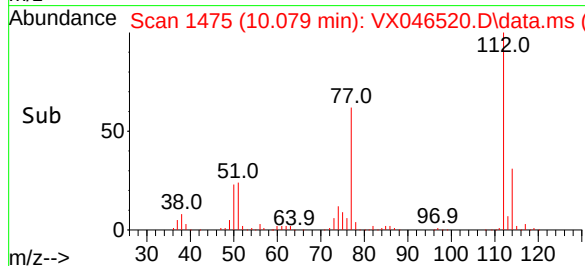
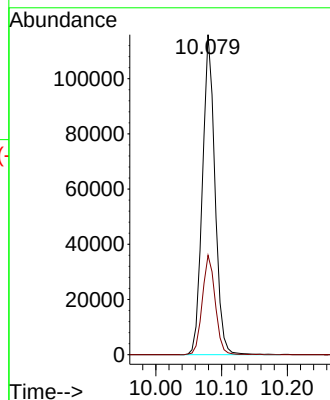
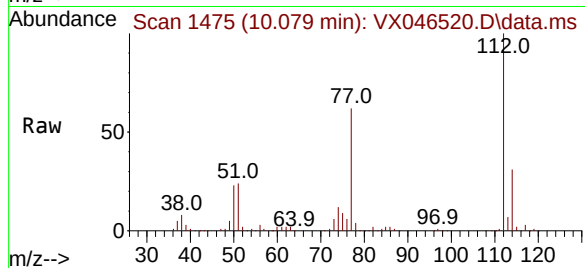
#65
Chlorobenzene
Concen: 47.857 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:112 Resp: 153710
Ion Ratio Lower Upper
112 100
114 31.0 25.4 38.2

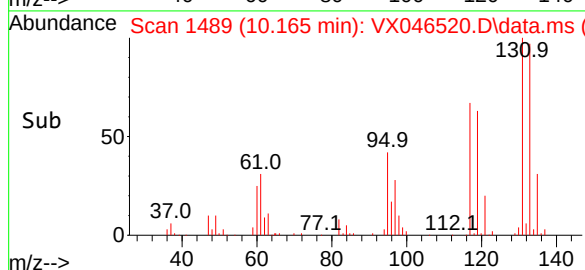
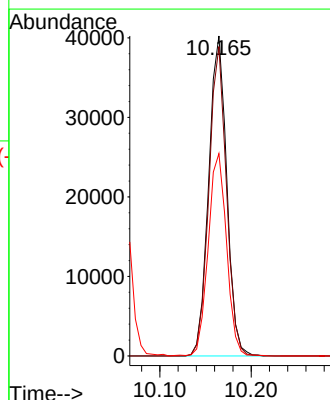
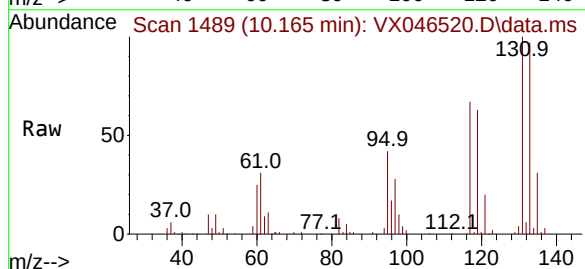
Manual Integrations
APPROVED

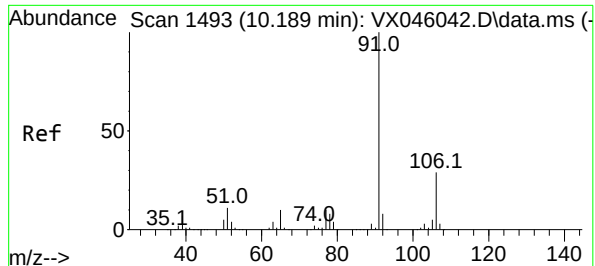
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 50.666 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:131 Resp: 54990
Ion Ratio Lower Upper
131 100
133 94.2 47.3 141.9
119 64.4 31.6 95.0





#67

Ethyl Benzene

Concen: 49.157 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 275620

Ion Ratio Lower Upper

91 100

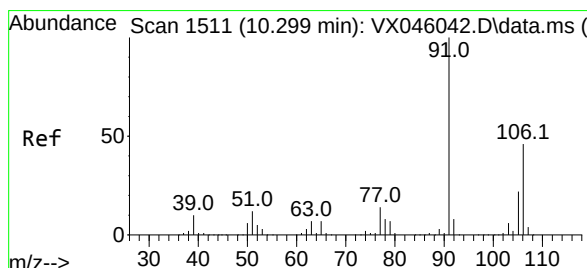
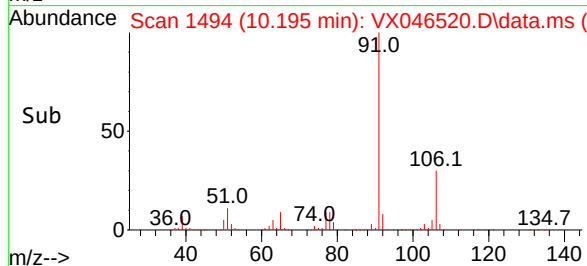
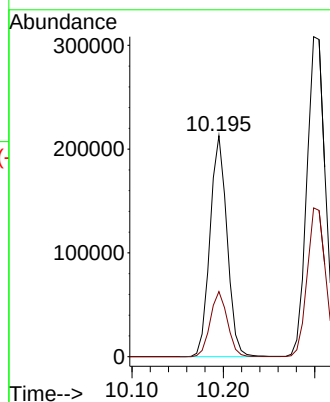
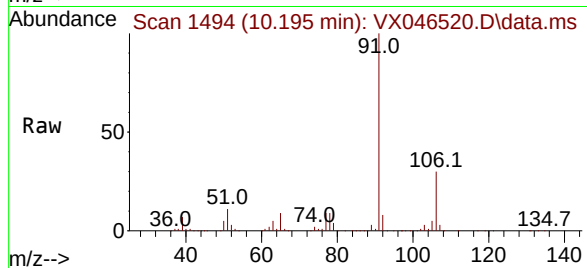
106 29.5 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 98.982 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046520.D

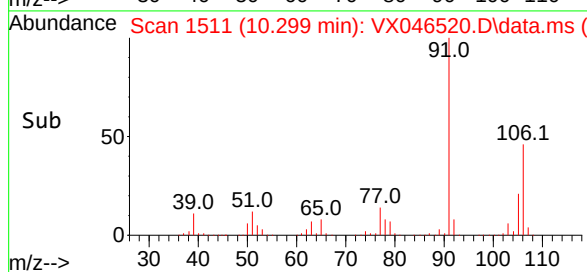
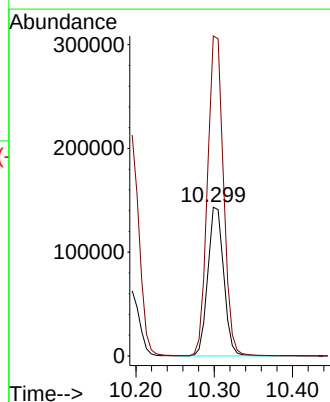
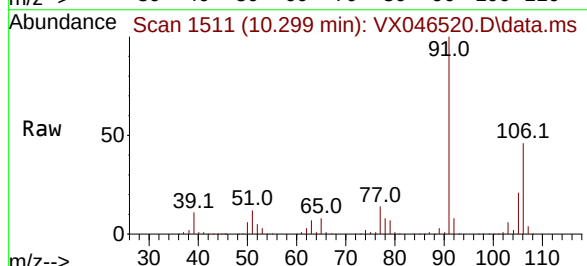
Acq: 06 Jun 2025 10:40

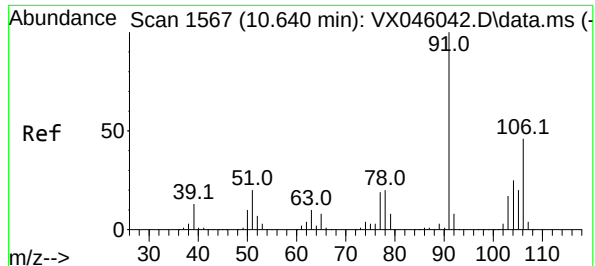
Tgt Ion:106 Resp: 201325

Ion Ratio Lower Upper

106 100

91 216.3 171.2 256.8





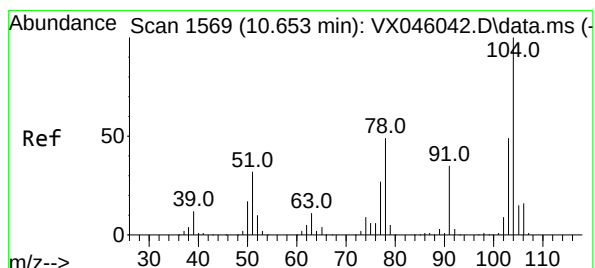
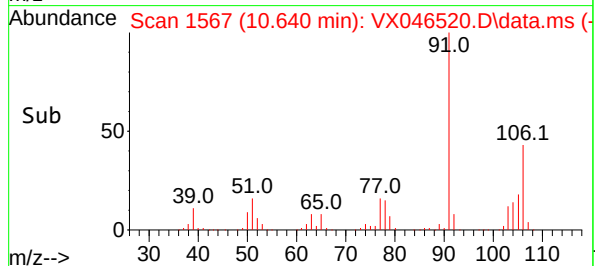
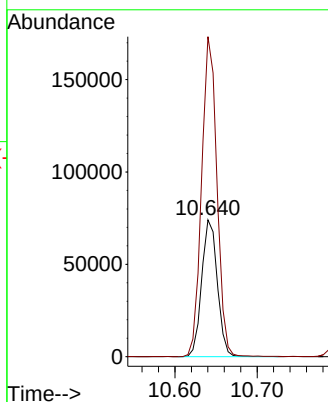
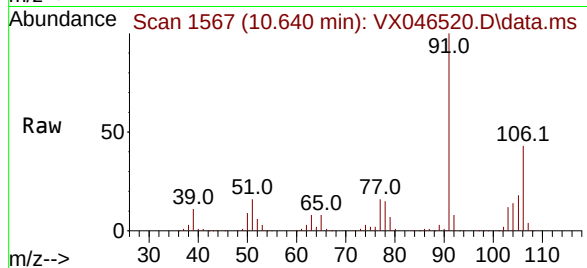
#69
o-Xylene
Concen: 49.696 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:106 Resp: 97769
Ion Ratio Lower Upper
106 100
91 229.7 112.7 338.1

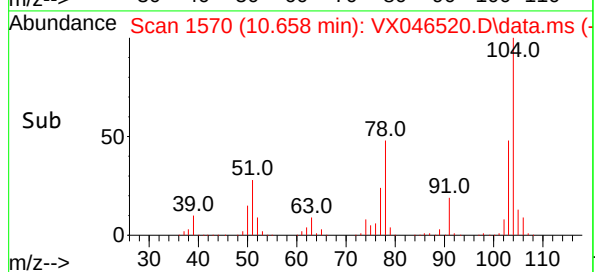
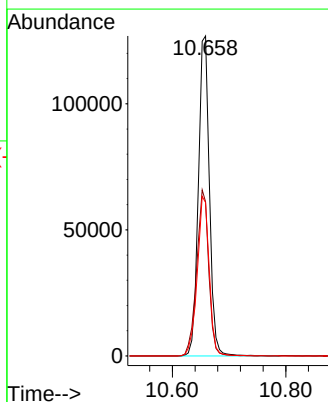
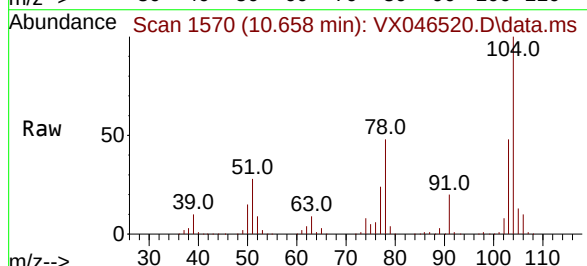
Manual Integrations
APPROVED

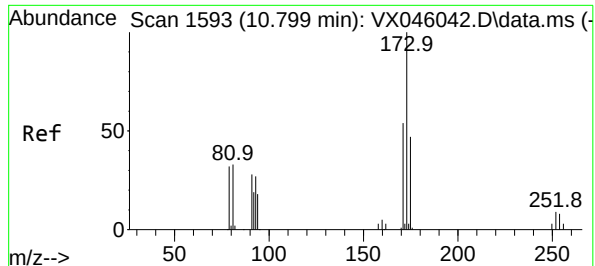
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 50.968 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

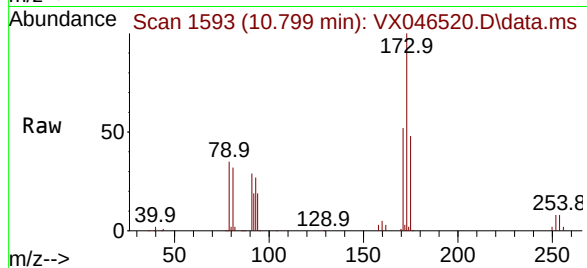
Tgt Ion:104 Resp: 171642
Ion Ratio Lower Upper
104 100
78 56.6 45.7 68.5
103 54.2 43.7 65.5





#71
Bromoform
Concen: 51.382 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

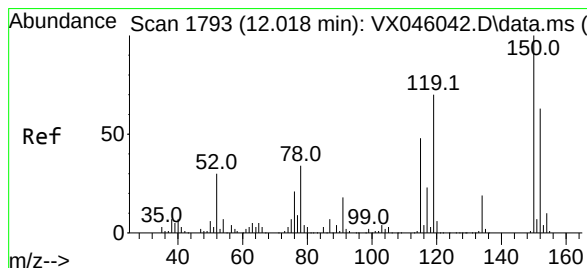
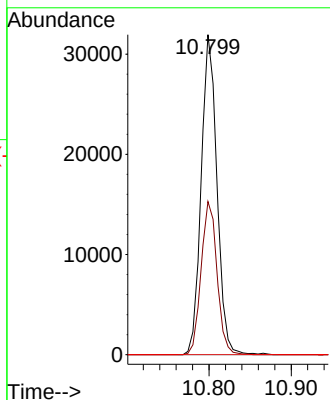
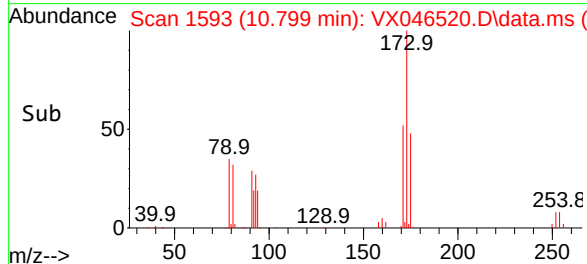
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:173 Resp: 4252
Ion Ratio Lower Upper
173 100
175 48.3 23.4 70.0
254 0.0 0.0 0.0

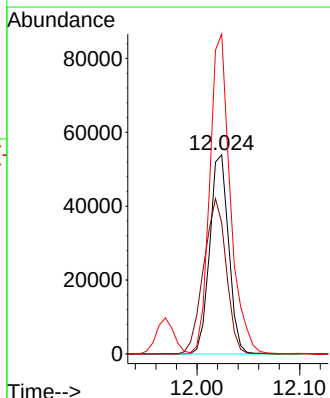
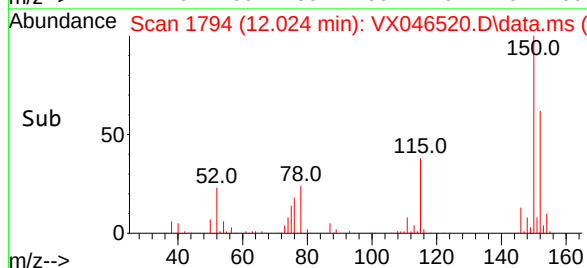
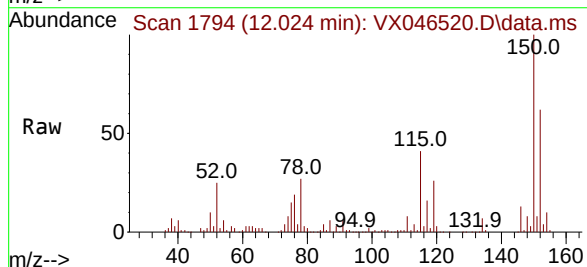
Manual Integrations
APPROVED

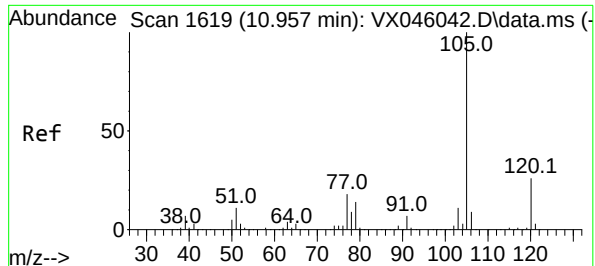
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:152 Resp: 68831
Ion Ratio Lower Upper
152 100
115 92.9 46.9 140.7
150 173.7 0.0 351.0





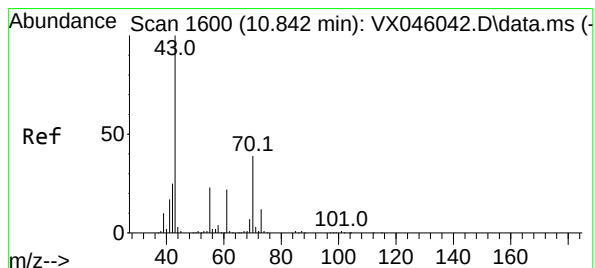
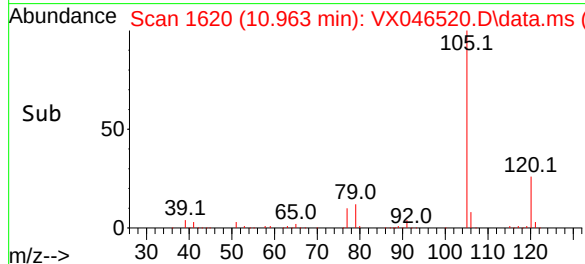
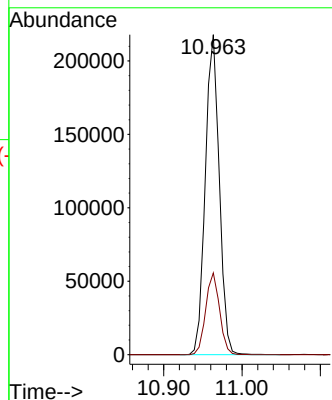
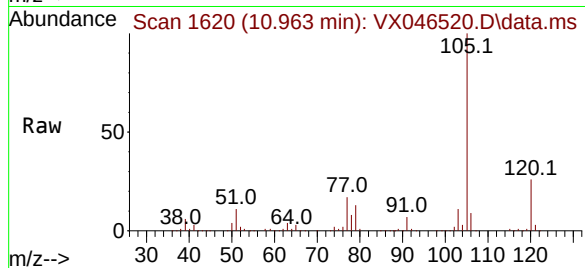
#73
Isopropylbenzene
Concen: 49.729 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion:105 Resp: 269074
Ion Ratio Lower Upper
105 100
120 25.3 12.8 38.4

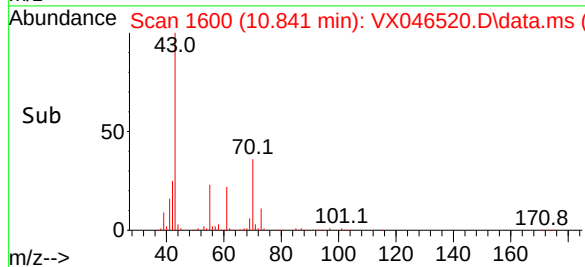
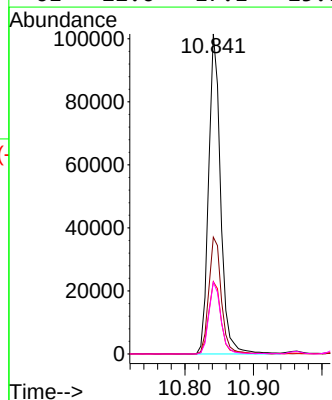
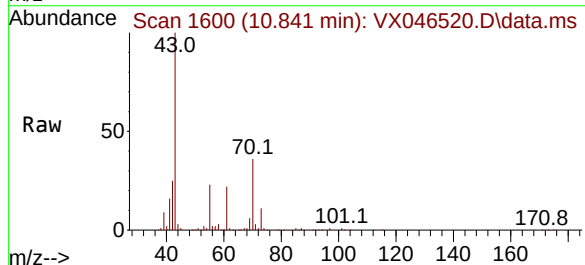
Manual Integrations
APPROVED

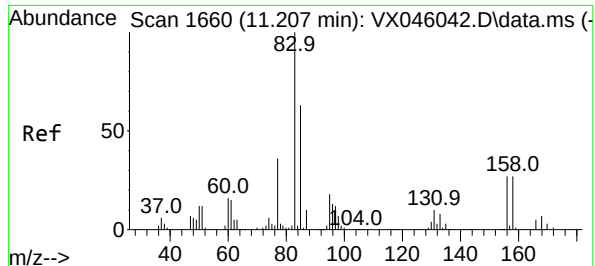
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 52.072 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

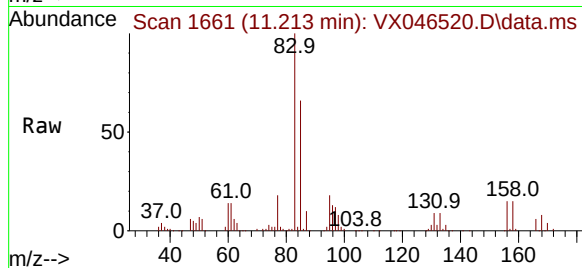
Tgt Ion: 43 Resp: 124077
Ion Ratio Lower Upper
43 100
70 38.3 30.9 46.3
55 23.5 18.7 28.1
61 22.6 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 49.967 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

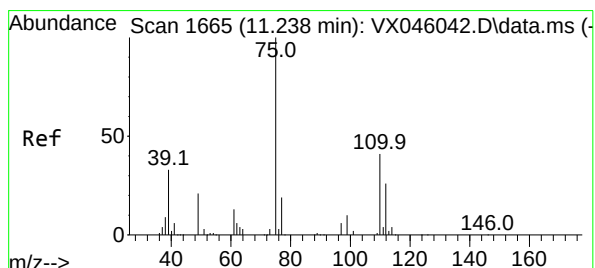
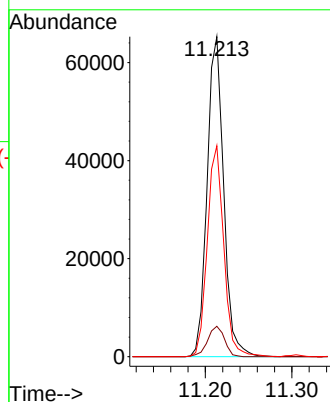
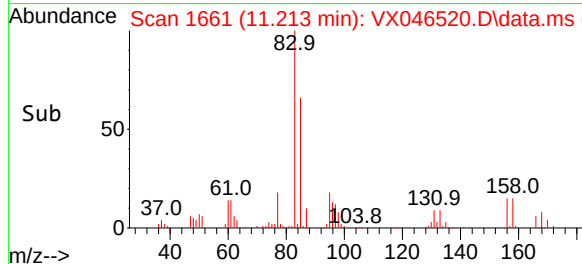
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion: 83 Resp: 86539
Ion Ratio Lower Upper
83 100
131 9.7 5.0 14.9
85 65.8 31.9 95.7

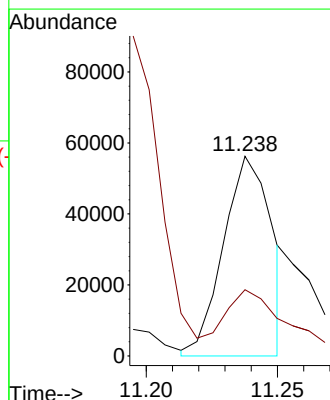
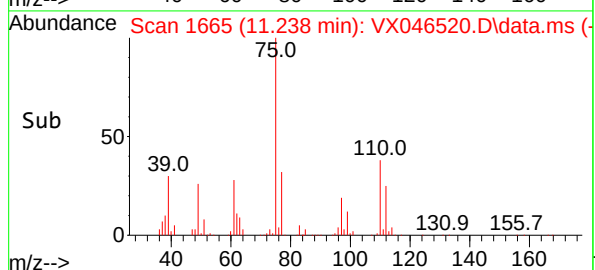
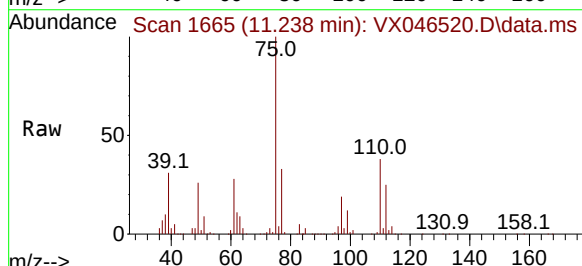
Manual Integrations
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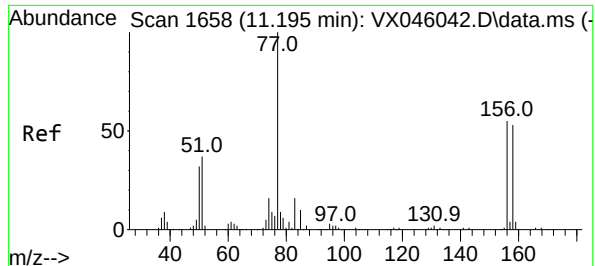
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 48.702 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

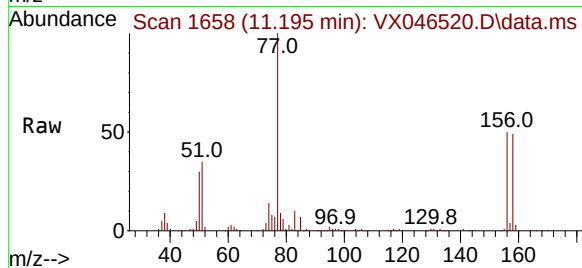
Tgt Ion: 75 Resp: 72182
Ion Ratio Lower Upper
75 100
77 43.7 20.5 61.5





#77
Bromobenzene
Concen: 48.295 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

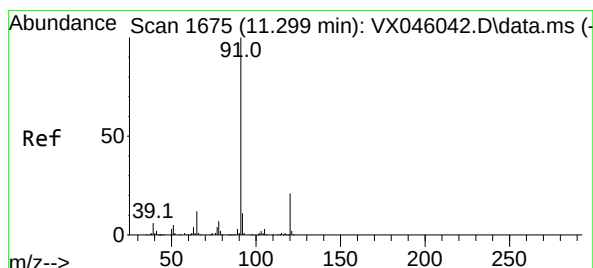
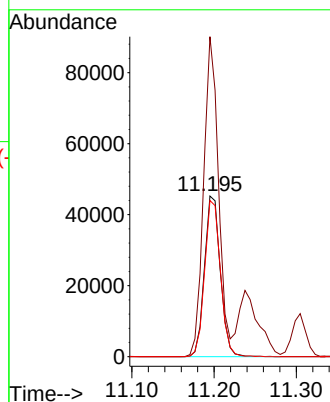
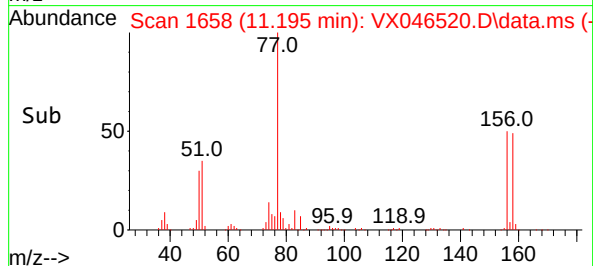
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:156 Resp: 6065
Ion Ratio Lower Upper
156 100
77 186.0 92.8 278.3
158 97.1 48.8 146.3

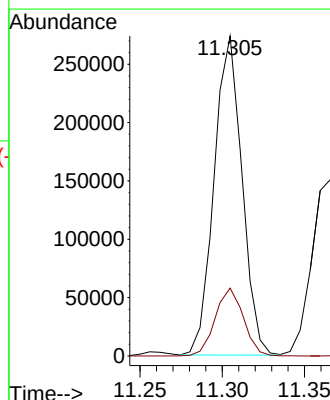
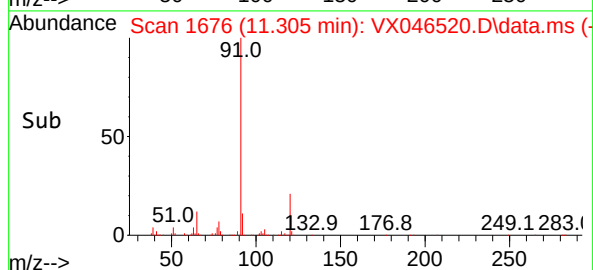
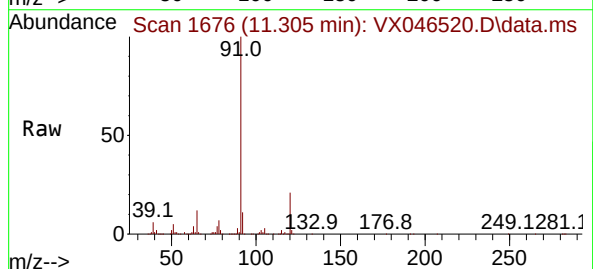
Manual Integrations
APPROVED

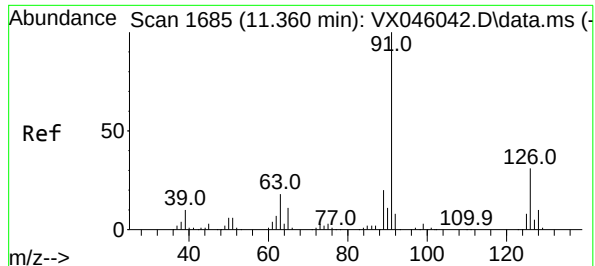
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 49.325 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 91 Resp: 323032
Ion Ratio Lower Upper
91 100
120 21.4 10.8 32.4





#79

2-Chlorotoluene

Concen: 48.549 ug/l

RT: 11.366 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 191732

Ion Ratio Lower Upper

91 100

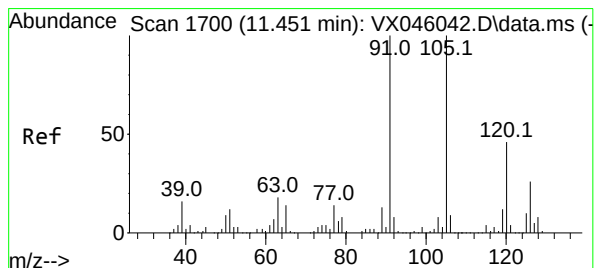
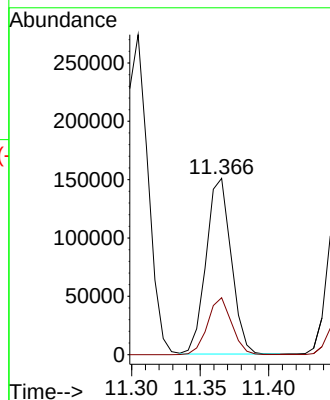
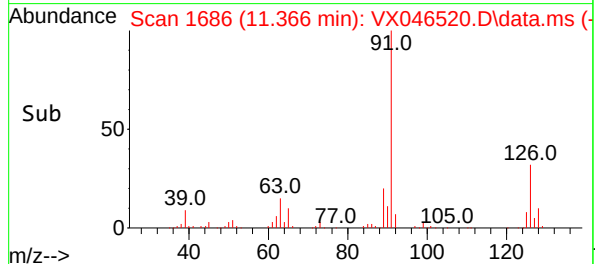
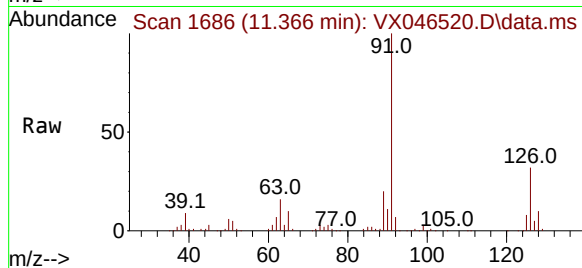
126 31.3 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 49.500 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046520.D

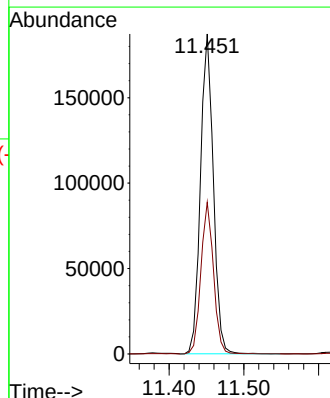
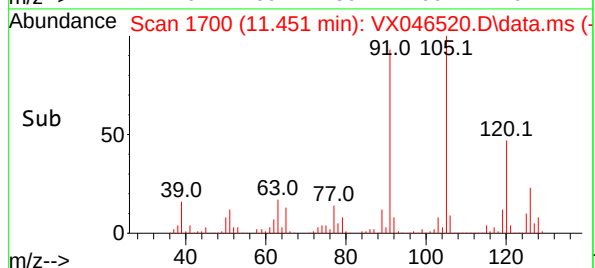
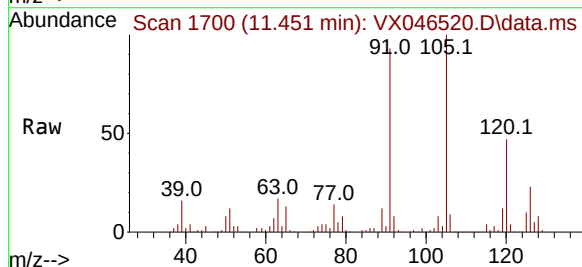
Acq: 06 Jun 2025 10:40

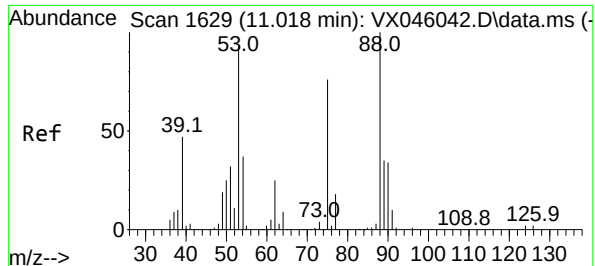
Tgt Ion:105 Resp: 223189

Ion Ratio Lower Upper

105 100

120 46.5 23.1 69.2





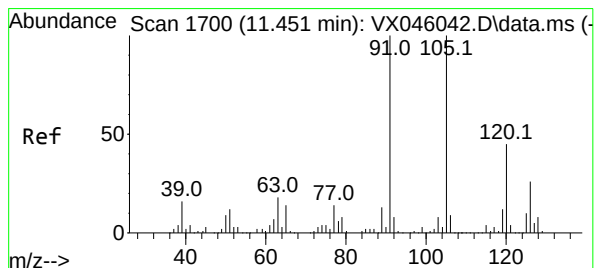
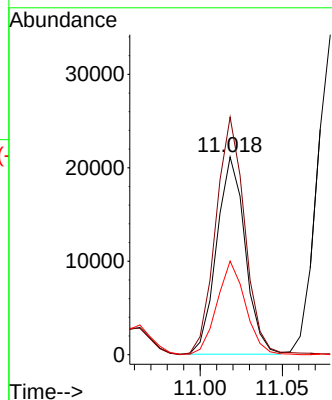
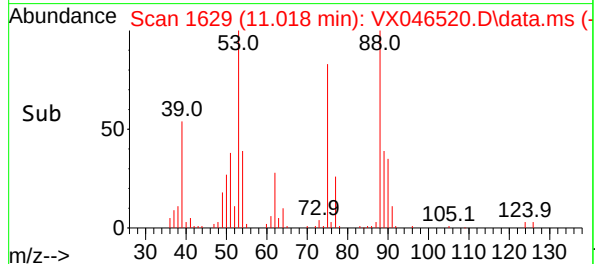
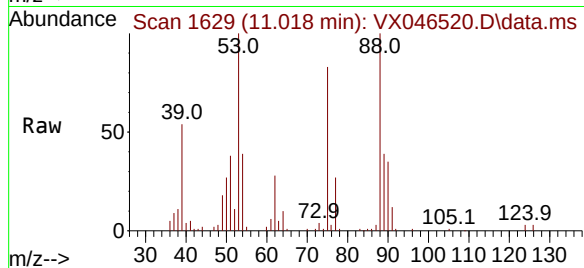
#81
trans-1,4-Dichloro-2-butene
Concen: 50.367 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050

Tgt Ion: 75 Resp: 25450
Ion Ratio Lower Upper
75 100
53 123.4 100.5 150.7
89 47.3 37.0 55.6

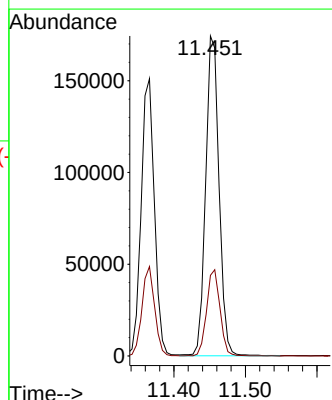
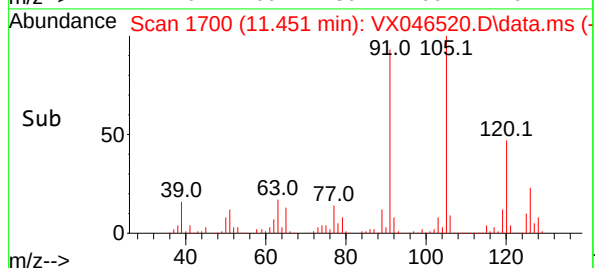
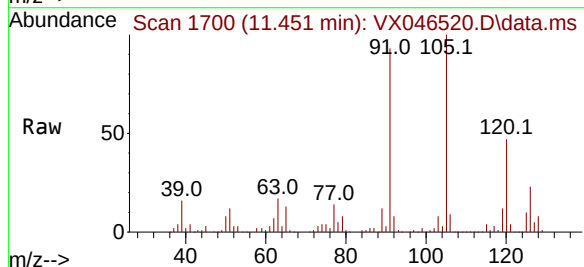
Manual Integrations
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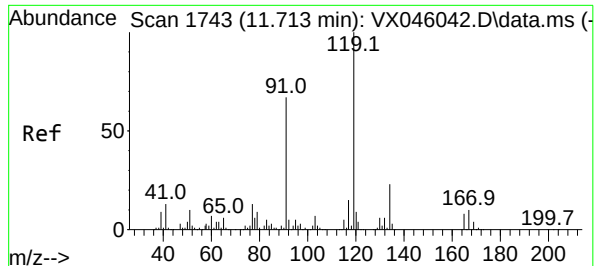
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 48.414 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion: 91 Resp: 226629
Ion Ratio Lower Upper
91 100
126 27.0 13.3 39.8





#83

tert-Butylbenzene

Concen: 49.285 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:119 Resp: 226214

Ion Ratio Lower Upper

119 100

91 64.1 32.9 98.7

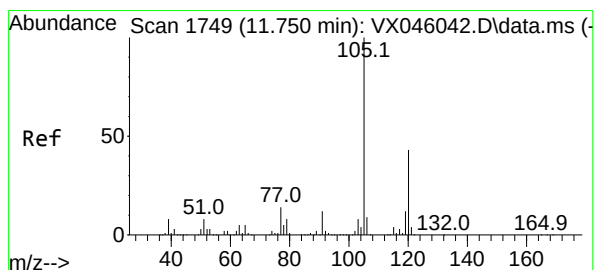
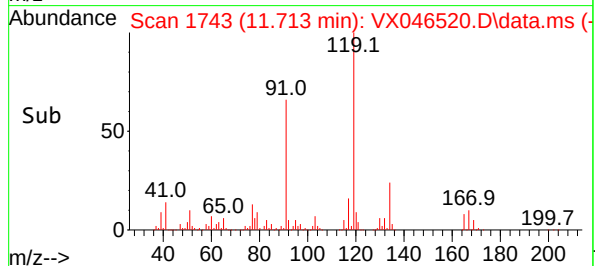
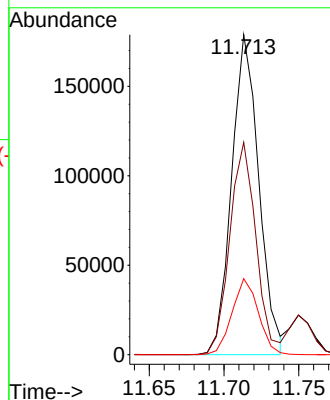
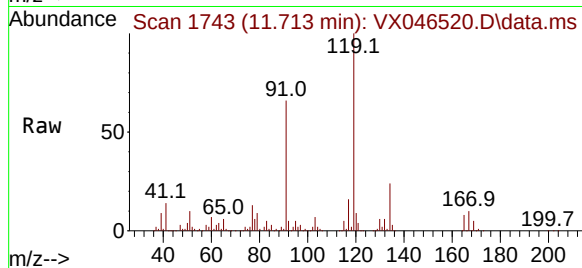
134 23.0 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 49.131 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046520.D

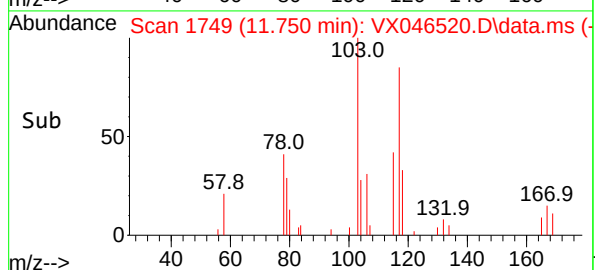
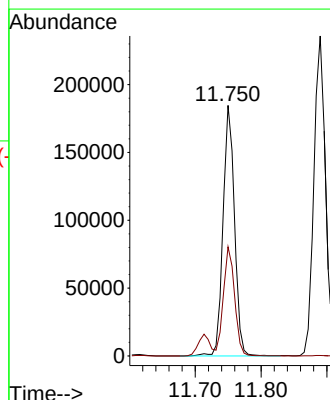
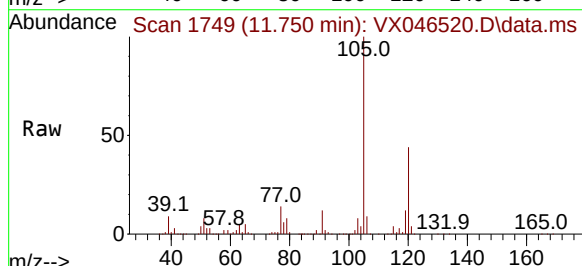
Acq: 06 Jun 2025 10:40

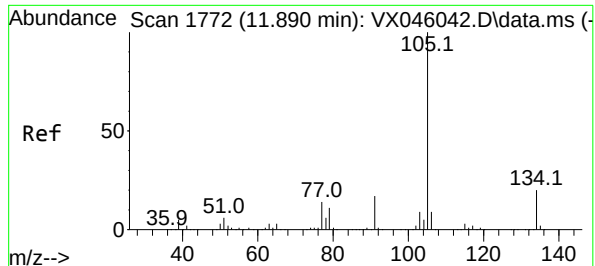
Tgt Ion:105 Resp: 224100

Ion Ratio Lower Upper

105 100

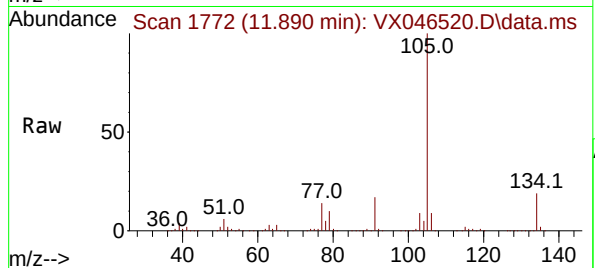
120 42.3 21.2 63.6





#85
sec-Butylbenzene
Concen: 48.696 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

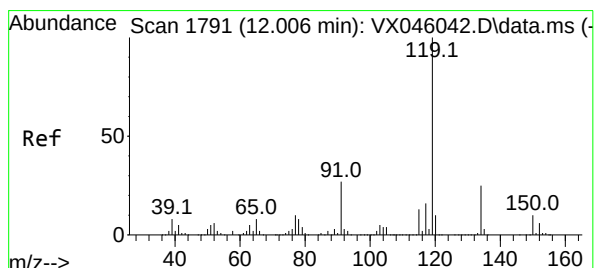
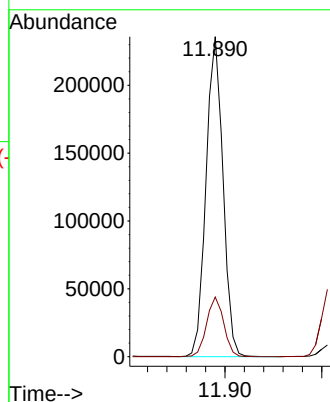
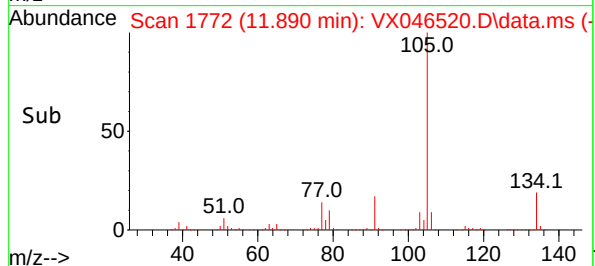
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:105 Resp: 287190
Ion Ratio Lower Upper
105 100
134 18.9 9.7 29.1

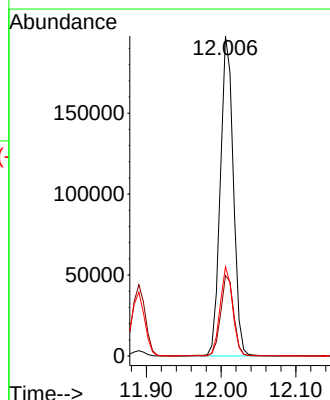
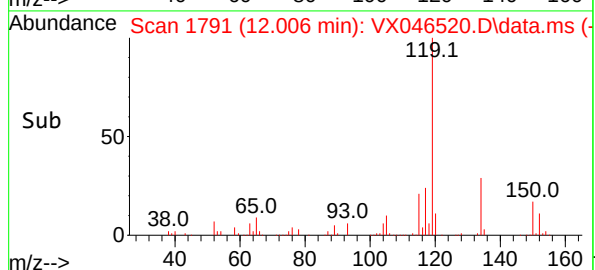
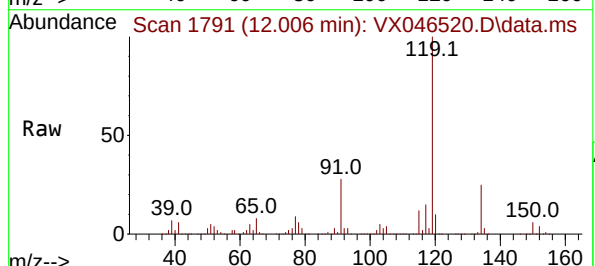
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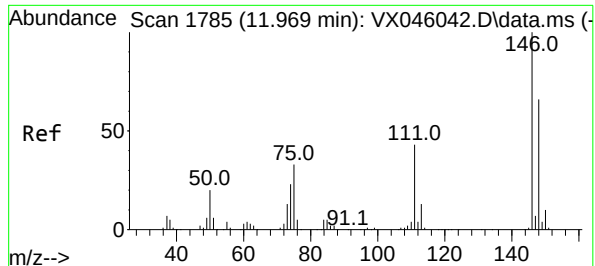
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 48.775 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:119 Resp: 239809
Ion Ratio Lower Upper
119 100
134 25.0 12.5 37.5
91 27.1 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 47.520 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion:146 Resp: 115889

Ion Ratio Lower Upper

146 100

111 44.0 22.1 66.3

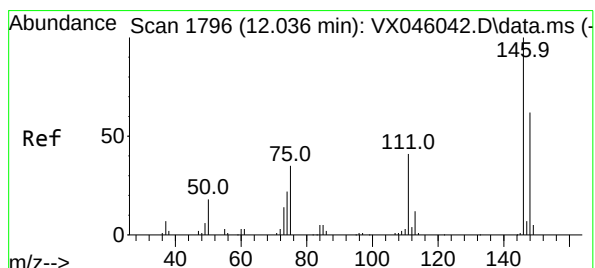
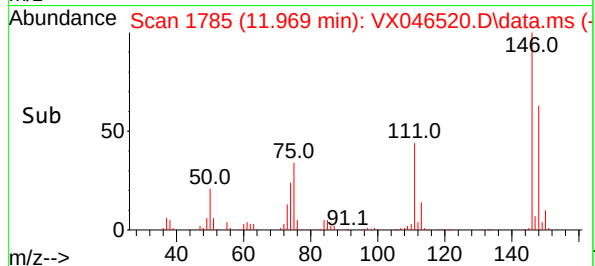
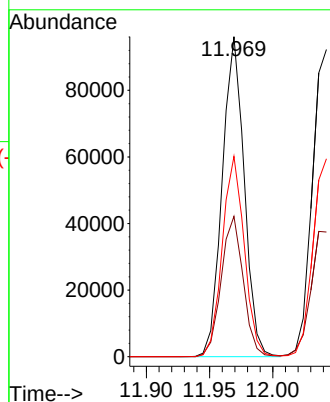
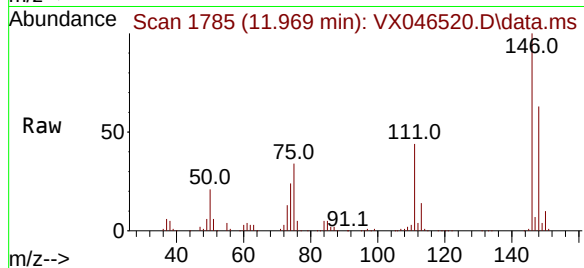
148 62.7 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 45.612 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

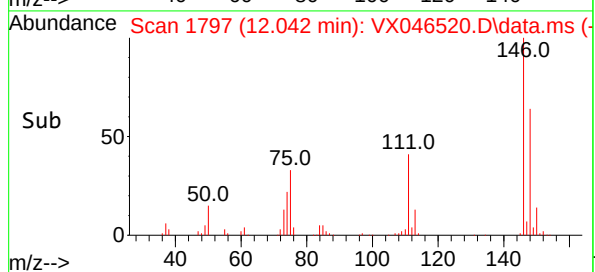
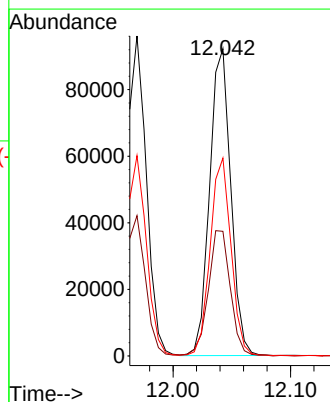
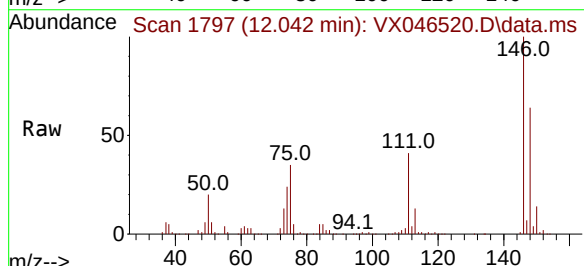
Tgt Ion:146 Resp: 115263

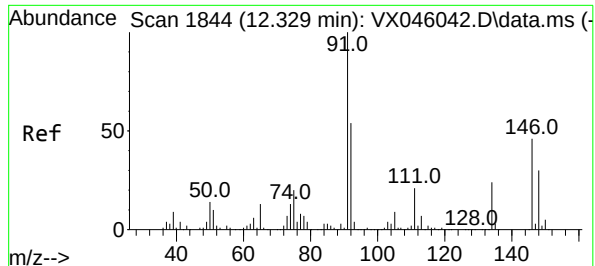
Ion Ratio Lower Upper

146 100

111 42.8 21.3 63.9

148 64.2 31.9 95.5





#89

n-Butylbenzene

Concen: 47.808 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046520.D

Acq: 06 Jun 2025 10:40

Instrument :

MSVOA_X

ClientSampleId :

VSTDICCC050

Tgt Ion: 91 Resp: 230830

Ion Ratio Lower Upper

91 100

92 53.5 26.9 80.7

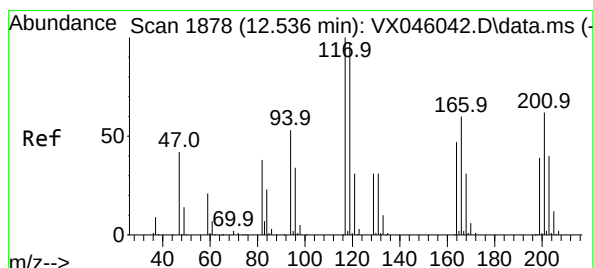
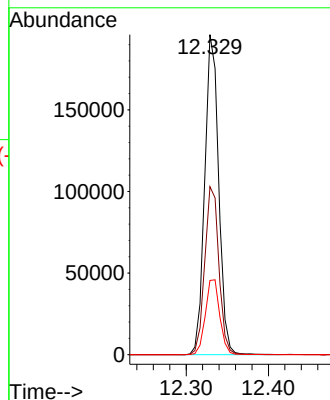
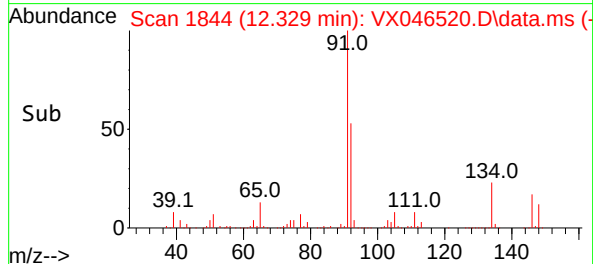
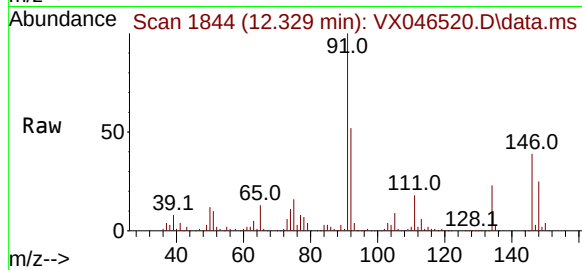
134 24.3 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 48.027 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046520.D

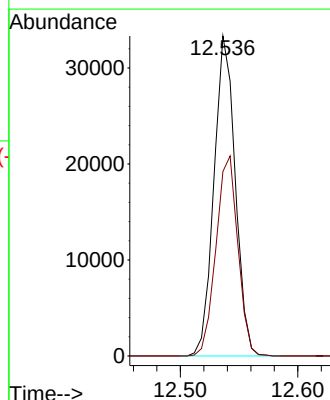
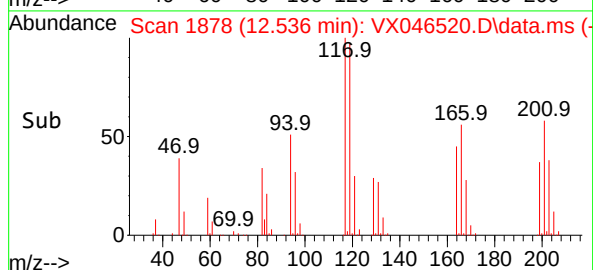
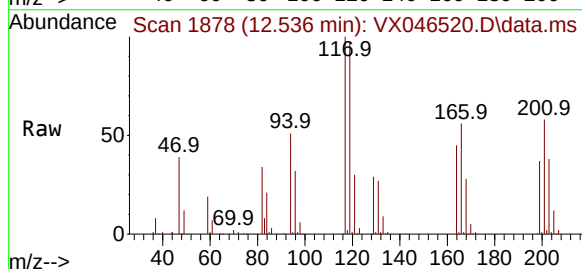
Acq: 06 Jun 2025 10:40

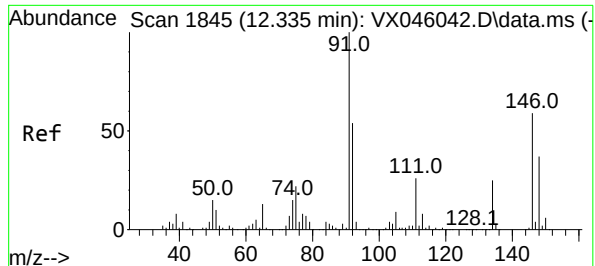
Tgt Ion:117 Resp: 41969

Ion Ratio Lower Upper

117 100

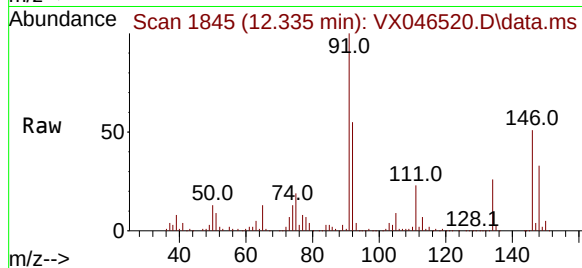
201 64.3 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 47.923 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

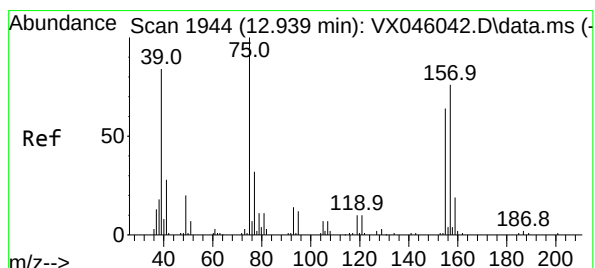
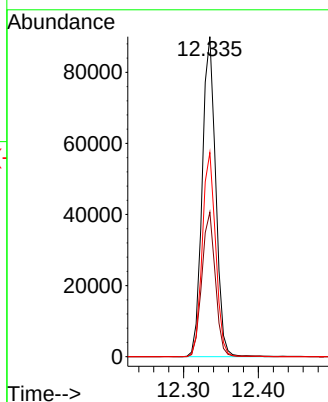
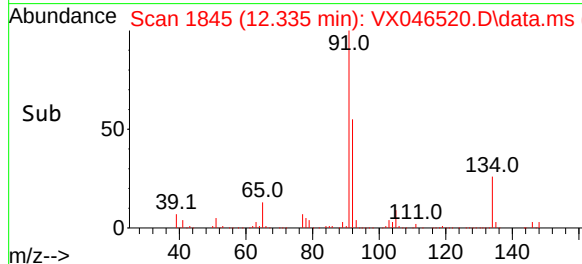
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:146 Resp: 112815
Ion Ratio Lower Upper
146 100
111 45.0 22.4 67.3
148 63.3 31.6 94.8

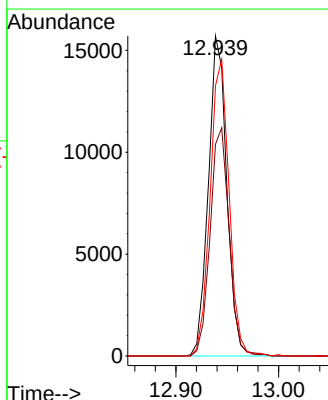
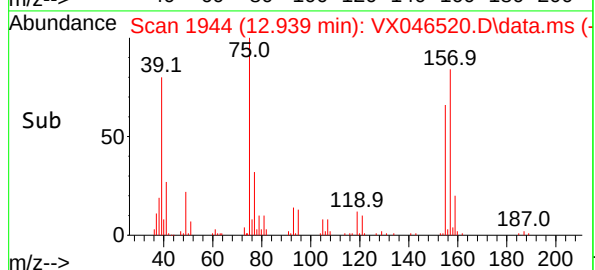
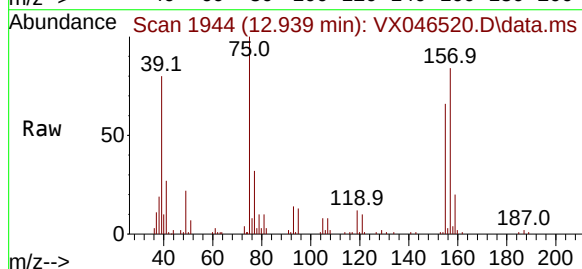
Manual Integrations
APPROVED

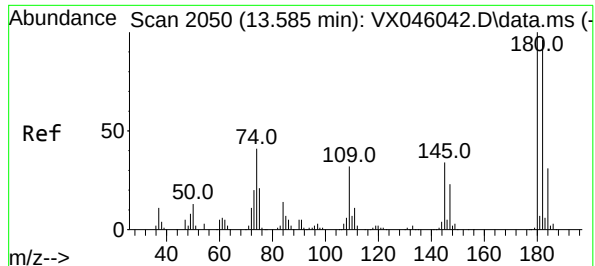
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.545 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

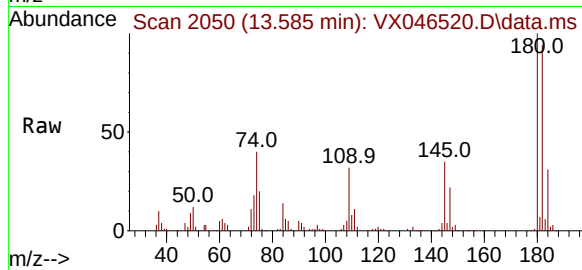
Tgt Ion: 75 Resp: 19603
Ion Ratio Lower Upper
75 100
155 73.0 34.9 104.8
157 95.0 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 46.149 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

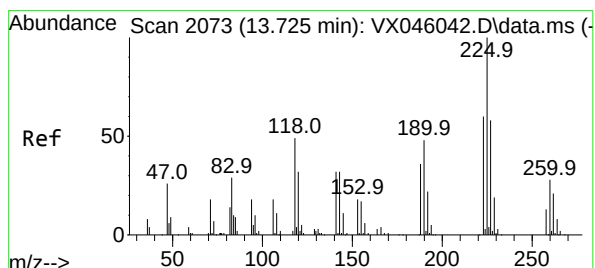
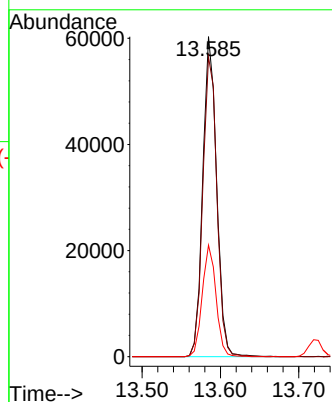
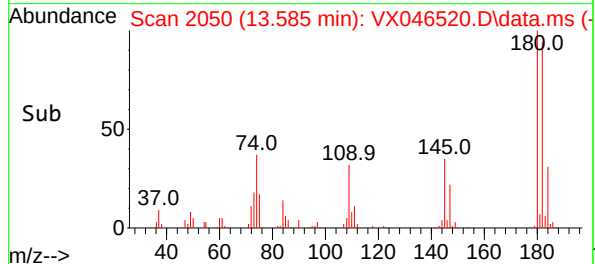
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:180 Resp: 74109
Ion Ratio Lower Upper
180 100
182 95.4 47.9 143.8
145 34.6 17.1 51.2

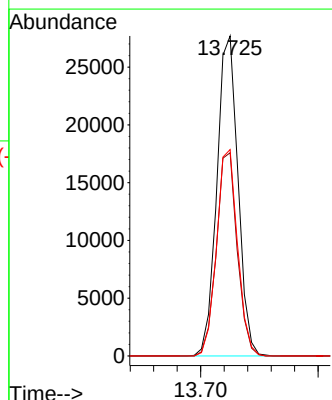
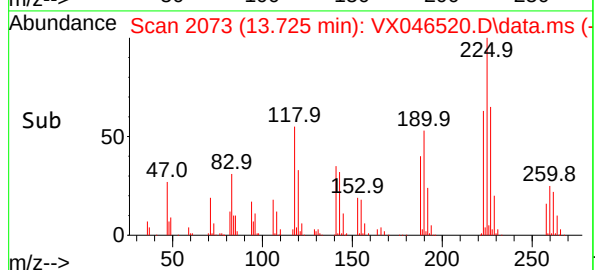
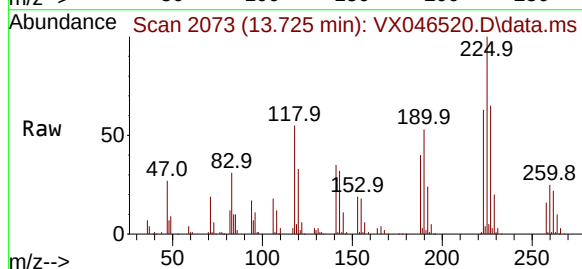
Manual Integrations
APPROVED

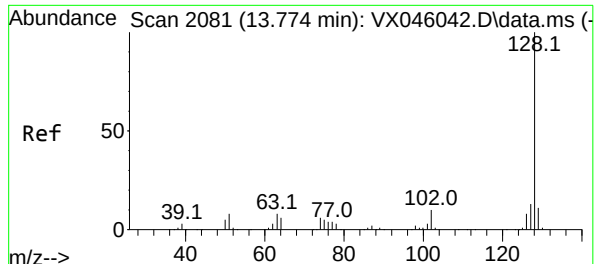
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#94
Hexachlorobutadiene
Concen: 46.237 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

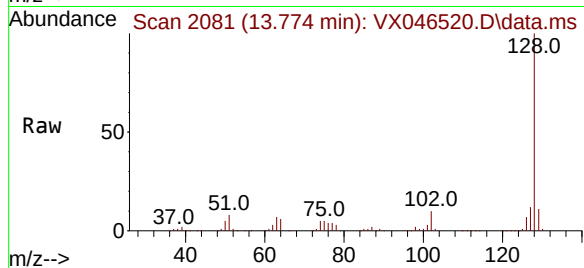
Tgt Ion:225 Resp: 34506
Ion Ratio Lower Upper
225 100
223 62.7 30.8 92.4
227 64.1 30.9 92.7





#95
Naphthalene
Concen: 50.359 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

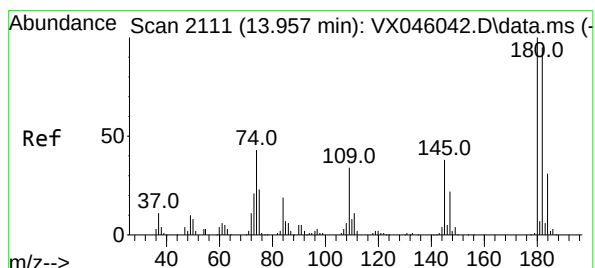
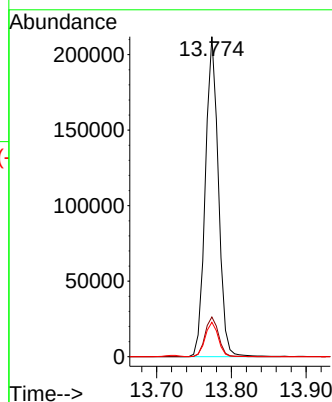
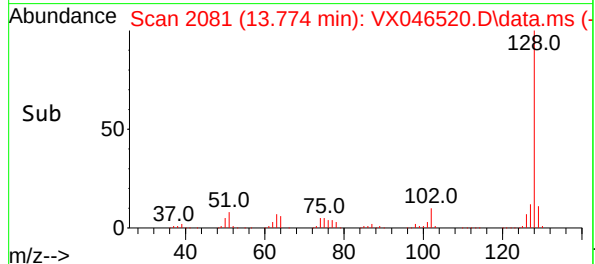
Instrument :
MSVOA_X
ClientSampleId :
VSTDICCC050



Tgt Ion:128 Resp: 256450
Ion Ratio Lower Upper
128 100
127 12.8 10.4 15.6
129 10.8 8.6 13.0

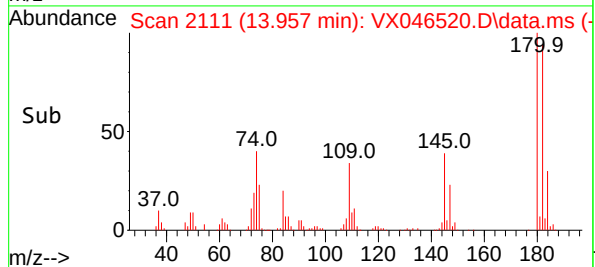
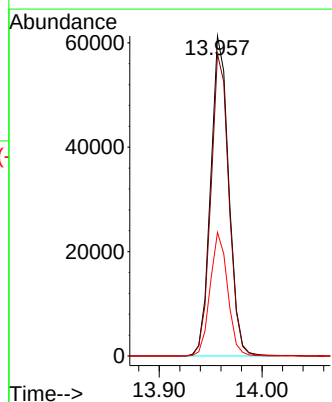
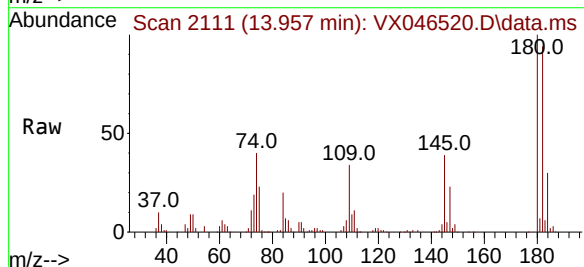
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 46.684 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046520.D
Acq: 06 Jun 2025 10:40

Tgt Ion:180 Resp: 75172
Ion Ratio Lower Upper
180 100
182 94.2 47.8 143.3
145 37.3 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046521.D
 Acq On : 06 Jun 2025 11:02
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	86761	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	151628	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	131925	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	65495	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	143754	93.131	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 186.260%#			
35) Dibromofluoromethane	5.403	113	105237	94.377	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 188.760%#			
50) Toluene-d8	8.653	98	343367	93.402	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 186.800%#			
62) 4-Bromofluorobenzene	11.079	95	141905	93.296	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 186.600%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.185	85	110112	91.417	ug/l	98
3) Chloromethane	1.307	50	98615	89.947	ug/l	99
4) Vinyl Chloride	1.386	62	102609	93.885	ug/l	98
5) Bromomethane	1.617	94	44380	66.888	ug/l	98
6) Chloroethane	1.697	64	61909	87.305	ug/l	99
7) Trichlorofluoromethane	1.904	101	171395	94.783	ug/l	98
8) Diethyl Ether	2.154	74	60580	94.817	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.349	101	106901	93.832	ug/l	97
10) Methyl Iodide	2.471	142	129059	104.501	ug/l	100
11) Tert butyl alcohol	2.977	59	90368	527.609	ug/l	99
12) 1,1-Dichloroethene	2.337	96	97296	94.457	ug/l	95
13) Acrolein	2.252	56	101278	460.232	ug/l	100
14) Allyl chloride	2.684	41	197384	97.570	ug/l	94
15) Acrylonitrile	3.081	53	330844	510.880	ug/l	100
16) Acetone	2.398	43	295803	483.635	ug/l	99
17) Carbon Disulfide	2.532	76	211673	96.592	ug/l	98
18) Methyl Acetate	2.721	43	200390	108.991	ug/l	99
19) Methyl tert-butyl Ether	3.129	73	369725	102.579	ug/l	99
20) Methylene Chloride	2.806	84	112036	90.472	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	98333	90.207	ug/l	97
22) Diisopropyl ether	3.782	45	402386	100.889	ug/l #	81
23) Vinyl Acetate	3.739	43	1588475	515.860	ug/l	100
24) 1,1-Dichloroethane	3.629	63	214175	96.351	ug/l	98
25) 2-Butanone	4.574	43	443718	516.388	ug/l	100
26) 2,2-Dichloropropane	4.501	77	168003	101.809	ug/l	99
27) cis-1,2-Dichloroethene	4.507	96	126373	94.172	ug/l	99
28) Bromochloromethane	4.916	49	103145	97.287	ug/l	100
29) Tetrahydrofuran	5.019	42	277926	512.155	ug/l	98
30) Chloroform	5.117	83	223890	96.128	ug/l	96
31) Cyclohexane	5.489	56	168997	94.175	ug/l	96
32) 1,1,1-Trichloroethane	5.397	97	195664	98.210	ug/l	98
36) 1,1-Dichloropropene	5.708	75	139920	87.846	ug/l	99
37) Ethyl Acetate	4.733	43	171559	110.381	ug/l	98
38) Carbon Tetrachloride	5.696	117	168024	94.183	ug/l	100
39) Methylcyclohexane	7.391	83	171321	91.127	ug/l	98
40) Benzene	6.056	78	418566	93.347	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046521.D
 Acq On : 06 Jun 2025 11:02
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	96904	100.381	ug/l	96
42) 1,2-Dichloroethane	6.098	62	177798	95.311	ug/l	99
43) Isopropyl Acetate	6.354	43	283615	104.651	ug/l	100
44) Trichloroethene	7.135	130	100714	88.399	ug/l	97
45) 1,2-Dichloropropane	7.440	63	112349	97.071	ug/l	97
46) Dibromomethane	7.586	93	82614	94.883	ug/l	98
47) Bromodichloromethane	7.830	83	178755	99.847	ug/l	99
48) Methyl methacrylate	7.702	41	148448	106.461	ug/l	97
49) 1,4-Dioxane	7.671	88	39522	2119.509	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	882926	512.682	ug/l	100
52) Toluene	8.720	92	257539	93.489	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	169431	105.552	ug/l	100
54) cis-1,3-Dichloropropene	8.372	75	180299	101.023	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	107827	97.502	ug/l	99
56) Ethyl methacrylate	9.122	69	180282	105.935	ug/l	97
57) 1,3-Dichloropropane	9.311	76	185642	94.990	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.250	63	472343	509.557	ug/l	100
59) 2-Hexanone	9.433	43	635829	514.792	ug/l	99
60) Dibromochloromethane	9.525	129	128006	98.404	ug/l	100
61) 1,2-Dibromoethane	9.610	107	110603	95.976	ug/l	98
64) Tetrachloroethene	9.275	164	79545	90.169	ug/l	97
65) Chlorobenzene	10.079	112	289084	93.171	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	106634	101.705	ug/l	99
67) Ethyl Benzene	10.195	91	520064	96.013	ug/l	99
68) m/p-Xylenes	10.305	106	376918	191.829	ug/l	100
69) o-Xylene	10.640	106	185444	97.576	ug/l	100
70) Styrene	10.659	104	319998	98.362	ug/l	99
71) Bromoform	10.799	173	83574	104.541	ug/l #	97
73) Isopropylbenzene	10.963	105	501468	97.400	ug/l	100
74) N-amyl acetate	10.841	43	242879	107.123	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	163624	99.288	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	134330m	95.251	ug/l	
77) Bromobenzene	11.201	156	115005	96.236	ug/l	98
78) n-propylbenzene	11.305	91	596385	95.703	ug/l	99
79) 2-Chlorotoluene	11.366	91	356389	94.839	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	412251	96.089	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	52102	108.338	ug/l	94
82) 4-Chlorotoluene	11.457	91	416150	93.429	ug/l	98
83) tert-Butylbenzene	11.713	119	425478	97.420	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	418383	96.397	ug/l	100
85) sec-Butylbenzene	11.890	105	536486	95.599	ug/l	100
86) p-Isopropyltoluene	12.006	119	445024	95.124	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	215104	92.695	ug/l	100
88) 1,4-Dichlorobenzene	12.042	146	213122	88.632	ug/l	99
89) n-Butylbenzene	12.329	91	433603	94.378	ug/l	99
90) Hexachloroethane	12.536	117	82886	99.681	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	208931	93.273	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	40499	109.744	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	143150	93.683	ug/l	99
94) Hexachlorobutadiene	13.725	225	65134	91.723	ug/l	99
95) Naphthalene	13.774	128	499805	103.144	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	145123	94.716	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046521.D
Acq On : 06 Jun 2025 11:02
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:57 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

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

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

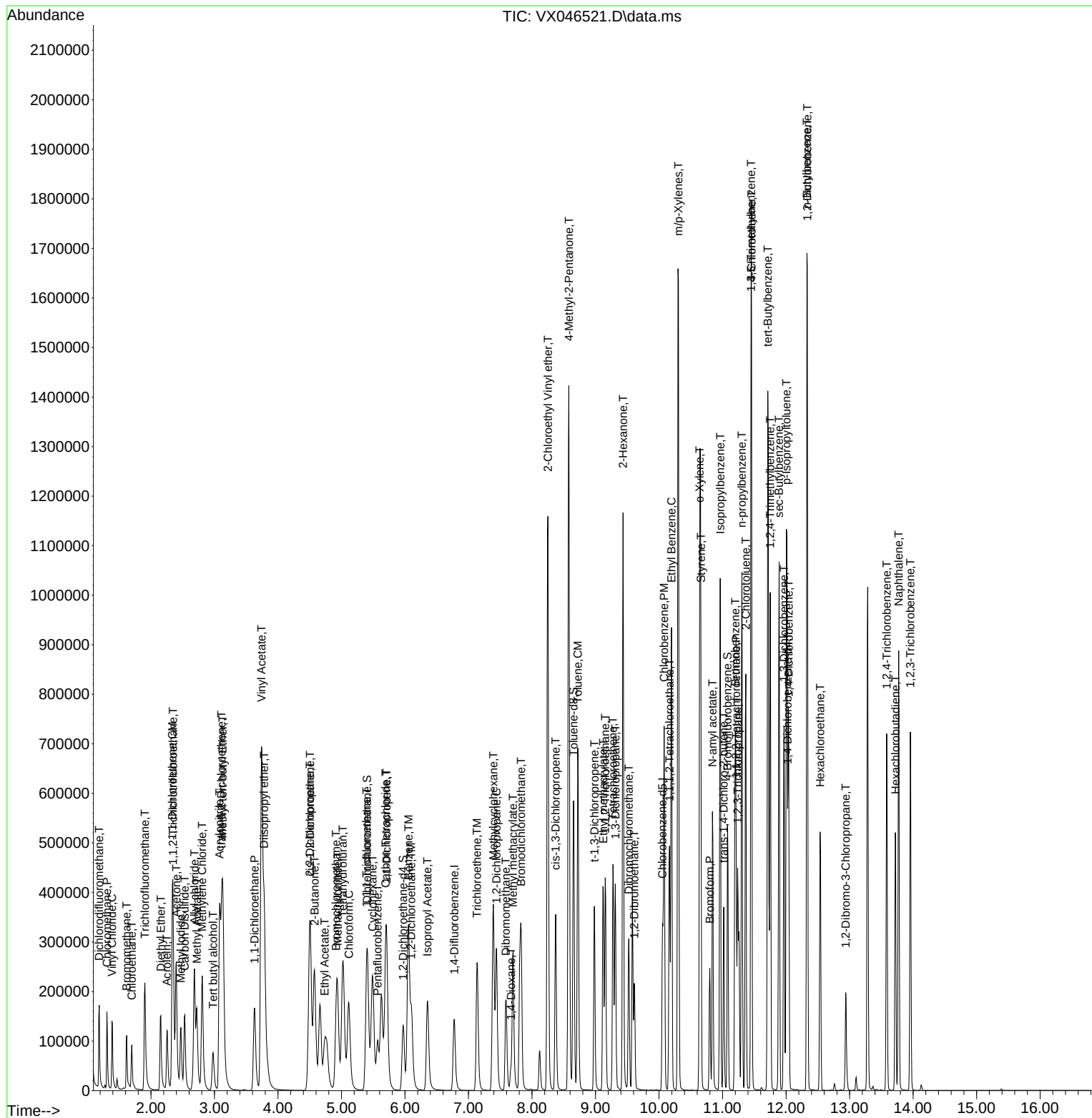
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046521.D
 Acq On : 06 Jun 2025 11:02
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

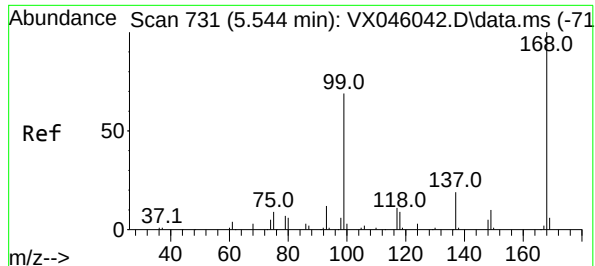
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:41:57 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.568 min Scan# 71

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:168 Resp: 8676

Ion Ratio Lower Upper

168 100

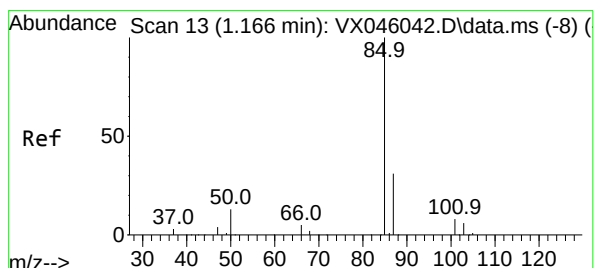
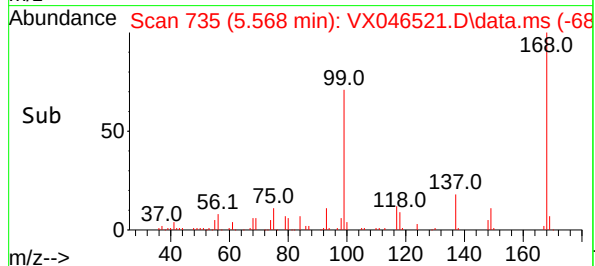
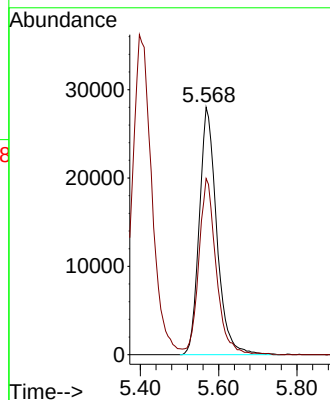
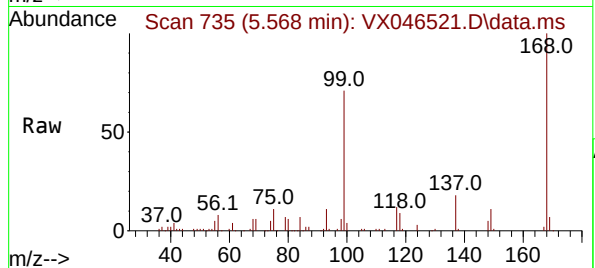
99 71.2 54.9 82.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#2

Dichlorodifluoromethane

Concen: 91.417 ug/l

RT: 1.185 min Scan# 16

Delta R.T. -0.000 min

Lab File: VX046521.D

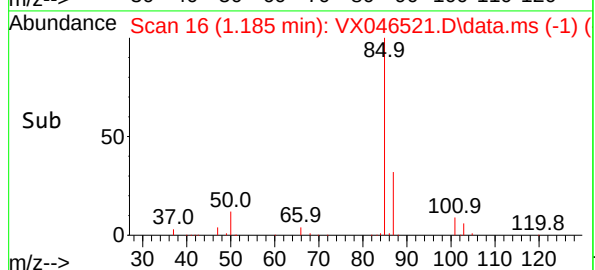
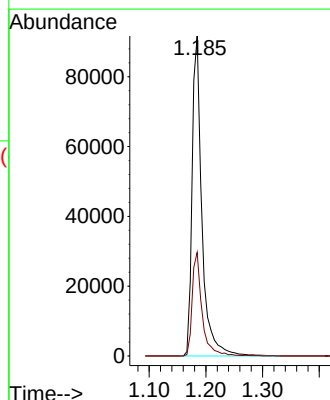
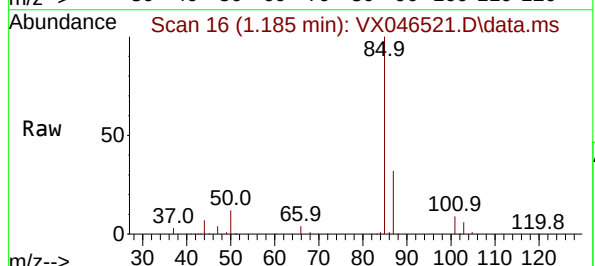
Acq: 06 Jun 2025 11:02

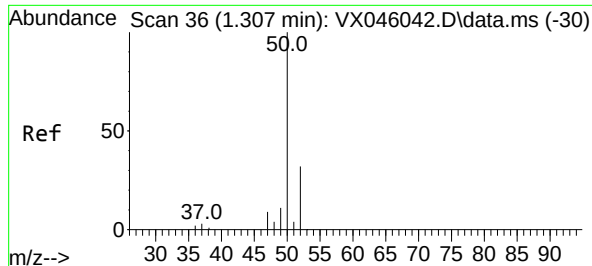
Tgt Ion: 85 Resp: 110112

Ion Ratio Lower Upper

85 100

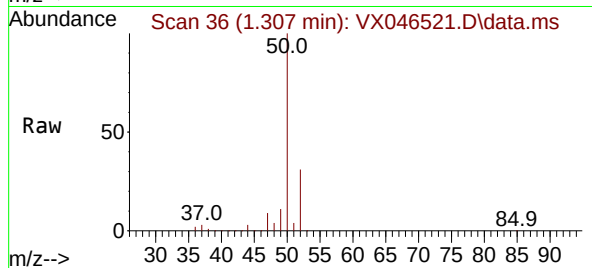
87 32.4 15.7 47.1





#3
Chloromethane
Concen: 89.947 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

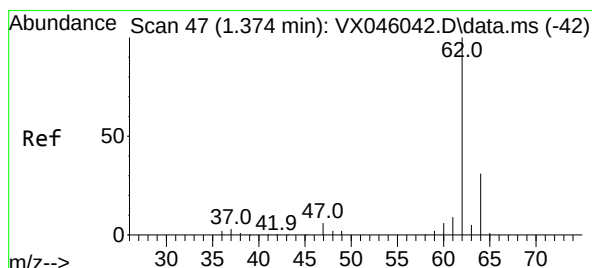
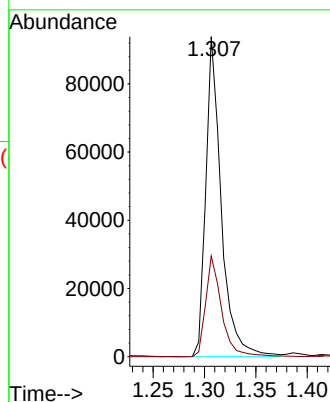
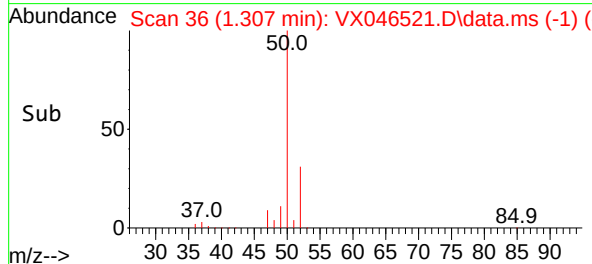
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 50 Resp: 9861
Ion Ratio Lower Upper
50 100
52 31.5 25.4 38.2

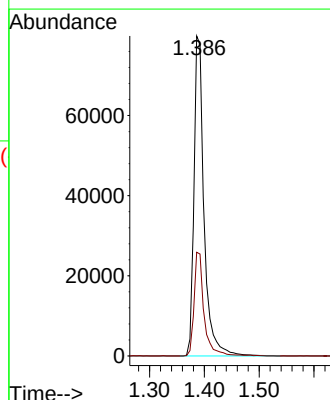
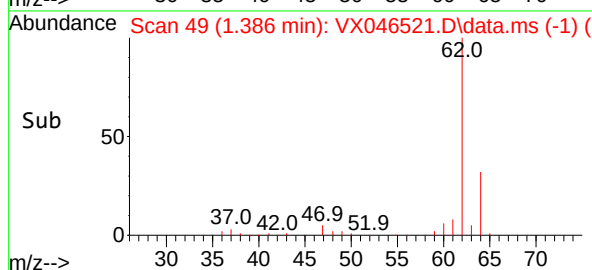
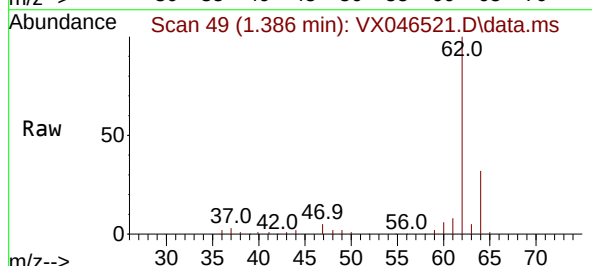
Manual Integrations
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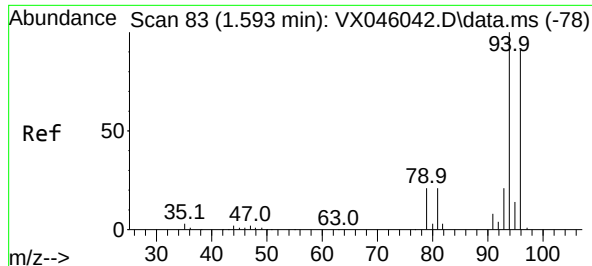
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 93.885 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

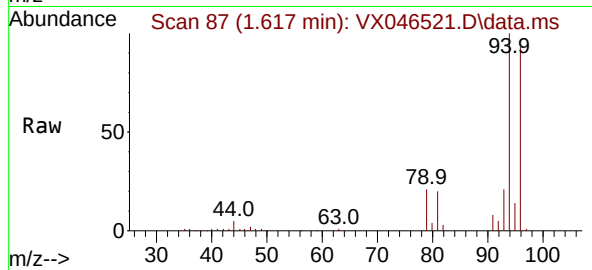
Tgt Ion: 62 Resp: 102609
Ion Ratio Lower Upper
62 100
64 32.4 25.2 37.8





#5
Bromomethane
Concen: 66.888 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.007 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

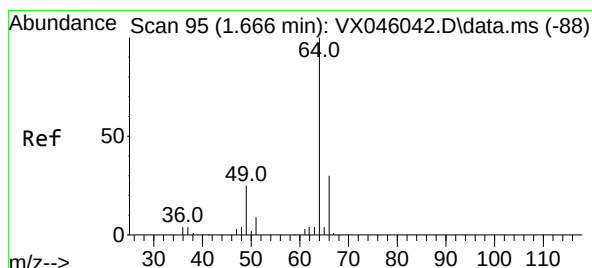
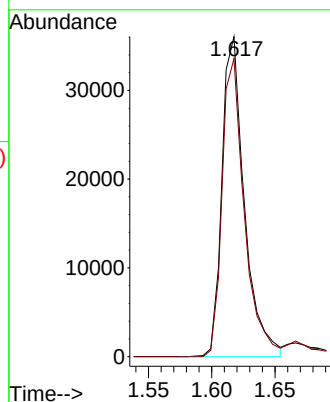
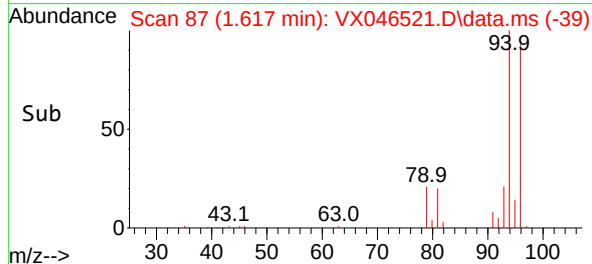
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 94 Resp: 44380
Ion Ratio Lower Upper
94 100
96 93.2 72.8 109.2

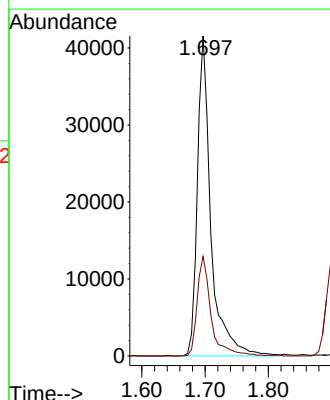
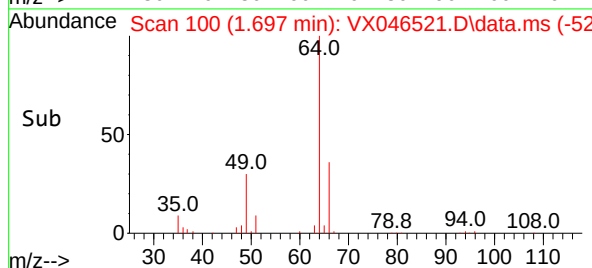
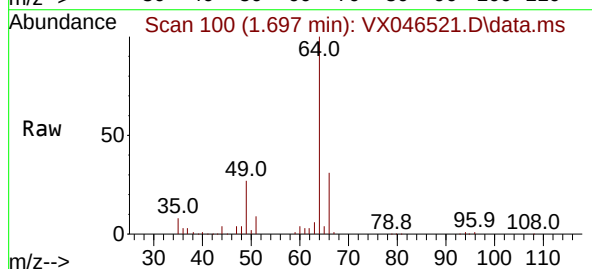
Manual Integrations
APPROVED

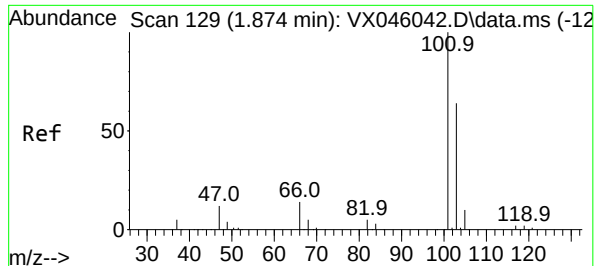
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 87.305 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

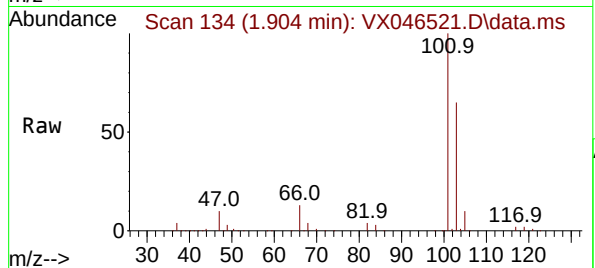
Tgt Ion: 64 Resp: 61909
Ion Ratio Lower Upper
64 100
66 31.1 24.3 36.5





#7
Trichlorofluoromethane
Concen: 94.783 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

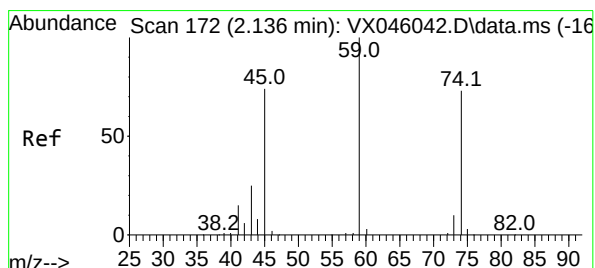
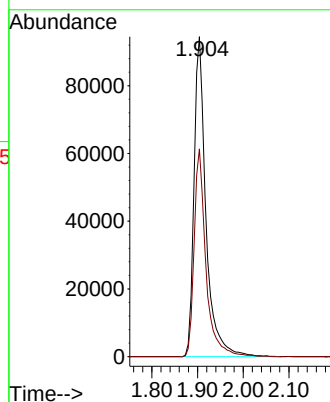
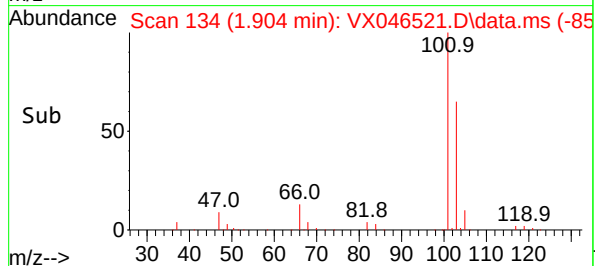
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:101 Resp: 17139
Ion Ratio Lower Upper
101 100
103 64.9 51.0 76.4

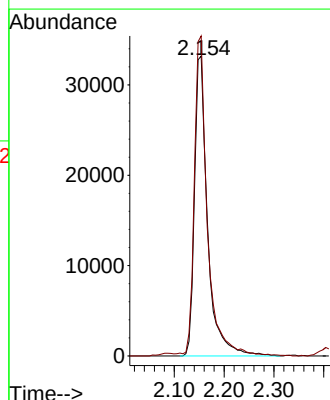
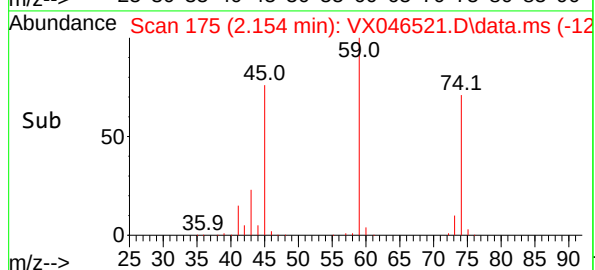
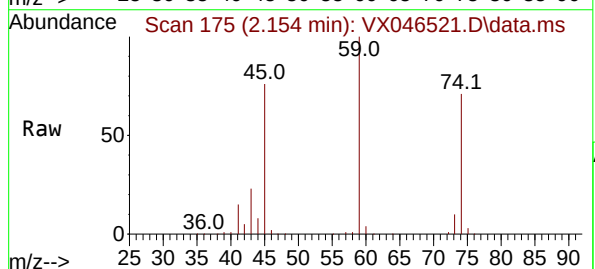
Manual Integrations
APPROVED

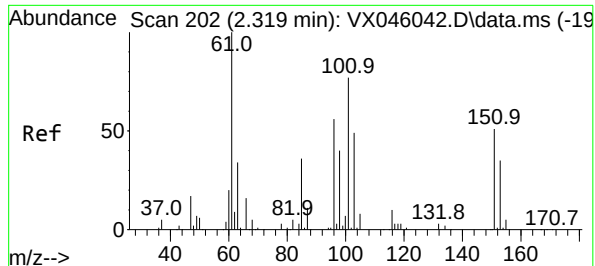
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 94.817 ug/l
RT: 2.154 min Scan# 175
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 74 Resp: 60580
Ion Ratio Lower Upper
74 100
45 106.9 54.9 164.8





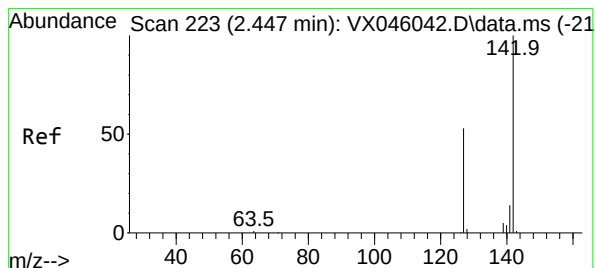
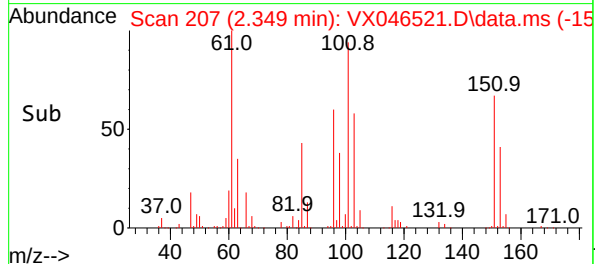
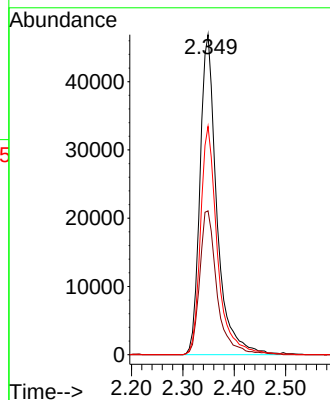
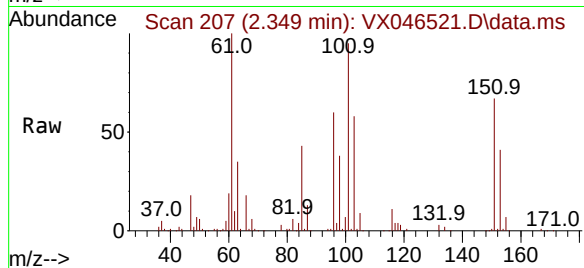
#9
1,1,2-Trichlorotrifluoroethane
Concen: 93.832 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:101 Resp: 10690
Ion Ratio Lower Upper
101 100
85 46.4 38.6 58.0
151 71.9 55.2 82.8

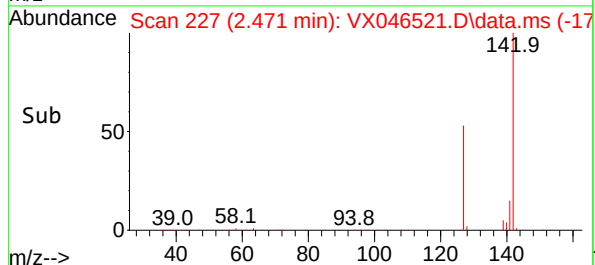
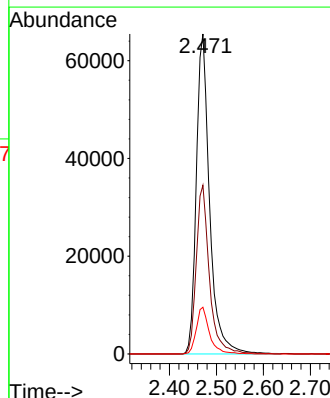
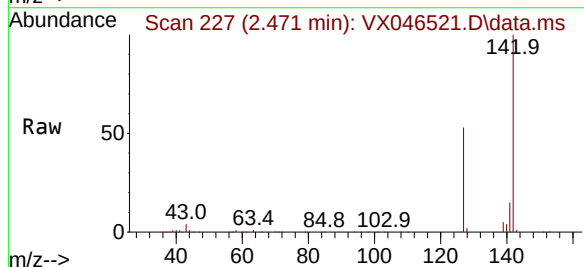
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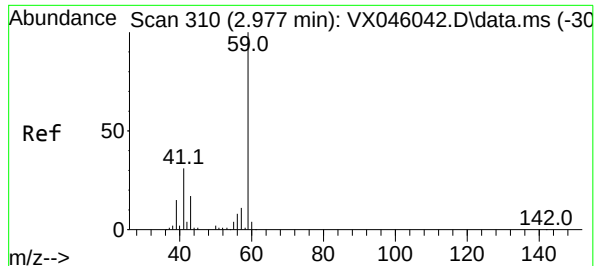
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#10
Methyl Iodide
Concen: 104.501 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion:142 Resp: 129059
Ion Ratio Lower Upper
142 100
127 52.1 41.7 62.5
141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 527.609 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 59 Resp: 90368

Ion Ratio Lower Upper

59 100

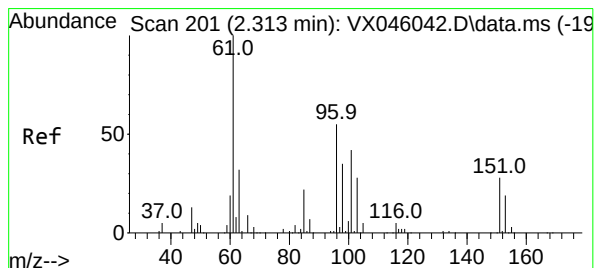
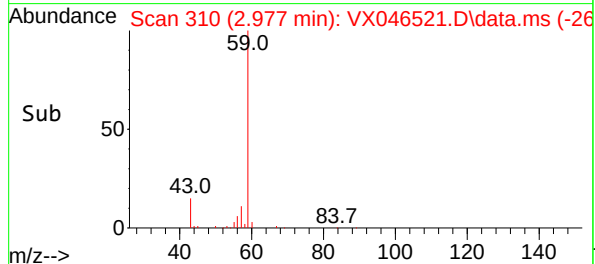
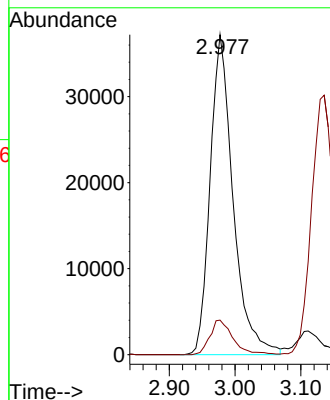
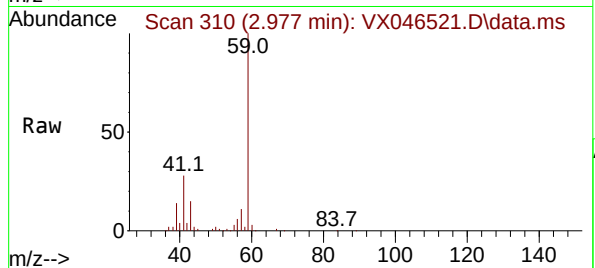
57 10.9 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 94.457 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

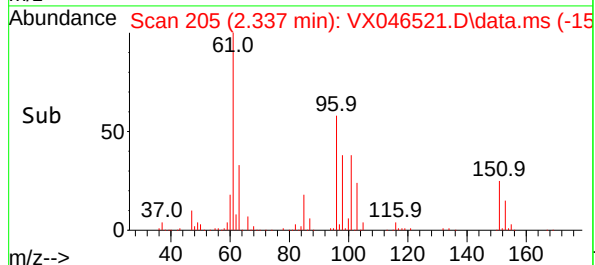
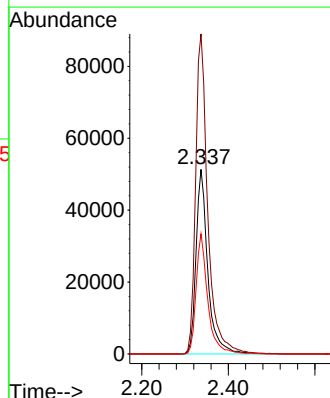
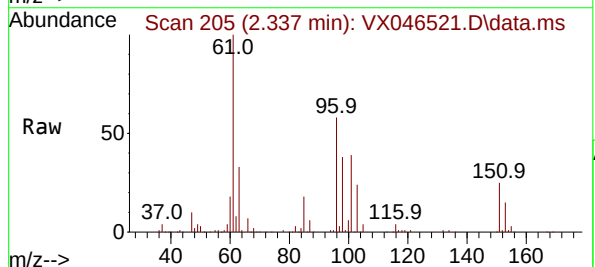
Tgt Ion: 96 Resp: 97296

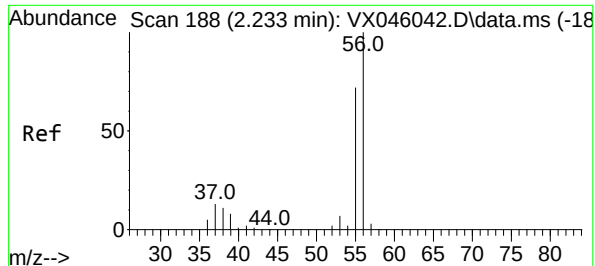
Ion Ratio Lower Upper

96 100

61 173.3 146.2 219.2

98 65.0 51.0 76.6





#13

Acrolein

Concen: 460.232 ug/l

RT: 2.252 min Scan# 188

Delta R.T. 0.001 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 101278

Ion Ratio Lower Upper

56 100

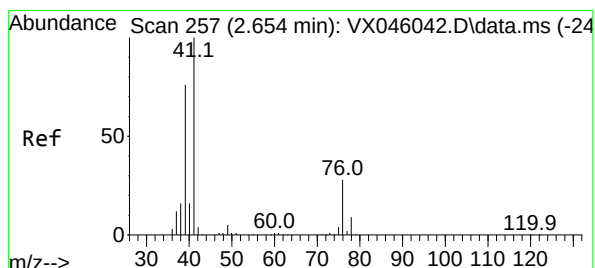
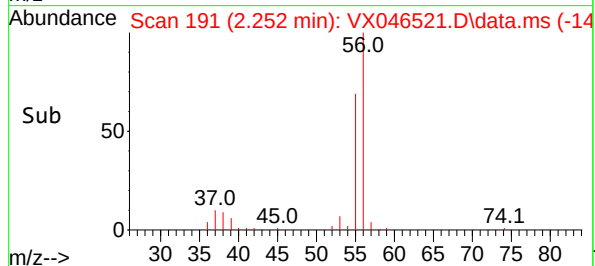
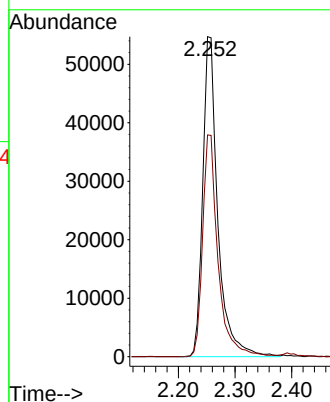
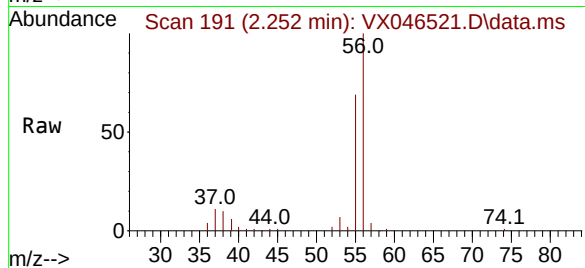
55 70.5 56.2 84.4

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 97.570 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

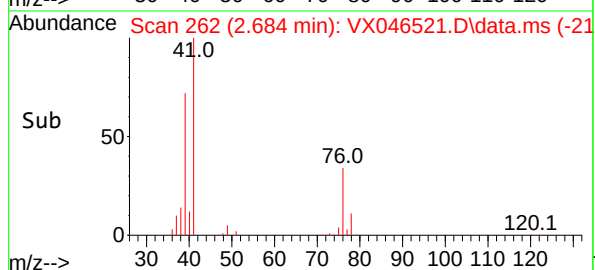
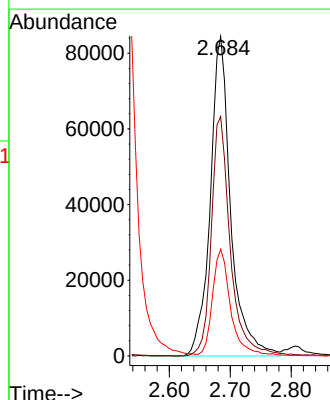
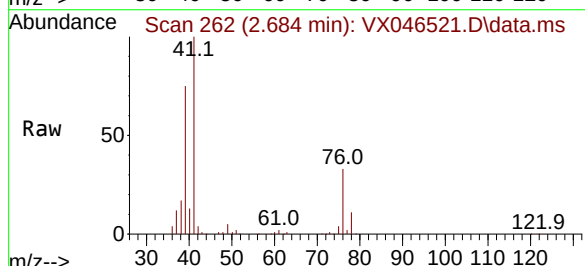
Tgt Ion: 41 Resp: 197384

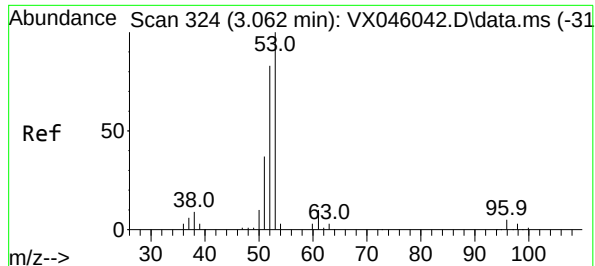
Ion Ratio Lower Upper

41 100

39 69.6 60.6 90.8

76 30.0 24.9 37.3





#15

Acrylonitrile

Concen: 510.880 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 53 Resp: 330844

Ion Ratio Lower Upper

53 100

52 82.2 65.3 97.9

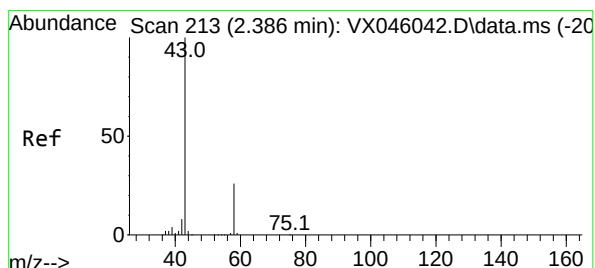
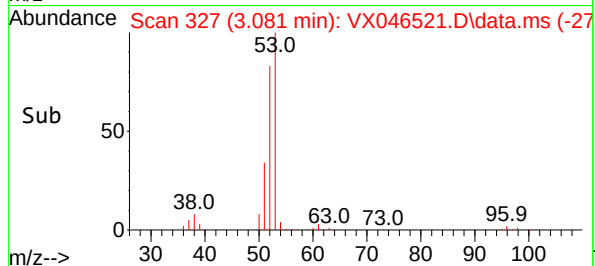
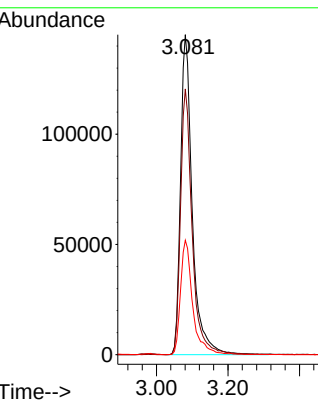
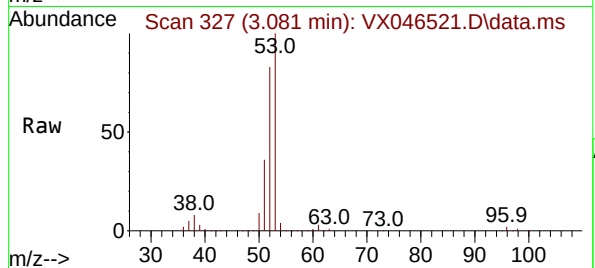
51 37.2 29.8 44.8

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 483.635 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX046521.D

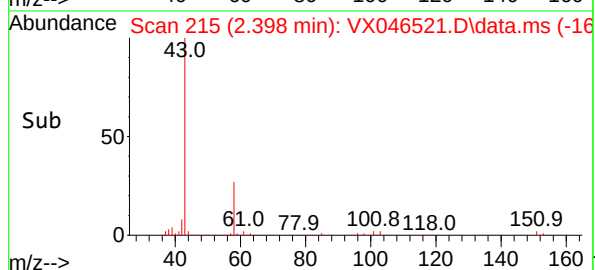
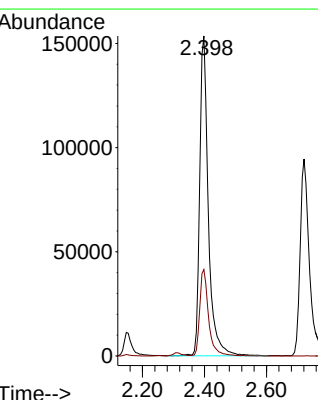
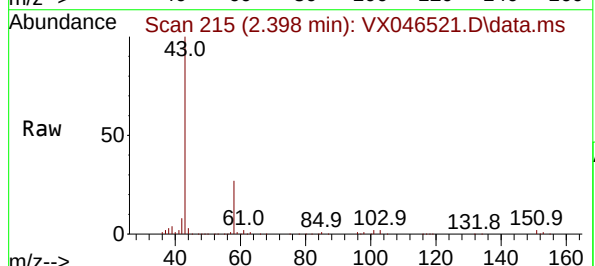
Acq: 06 Jun 2025 11:02

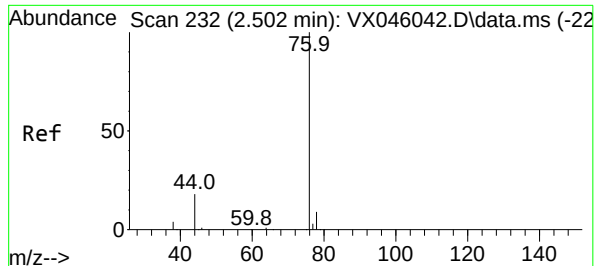
Tgt Ion: 43 Resp: 295803

Ion Ratio Lower Upper

43 100

58 27.0 21.2 31.8





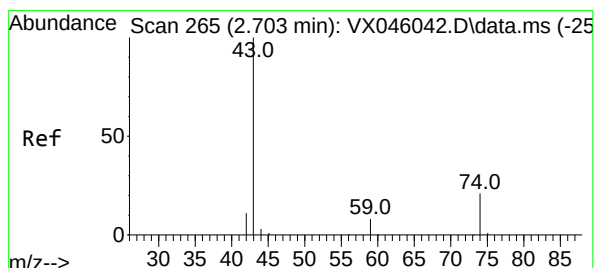
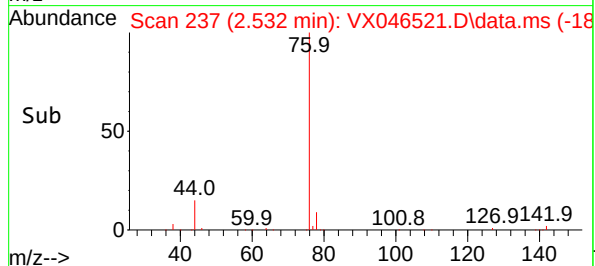
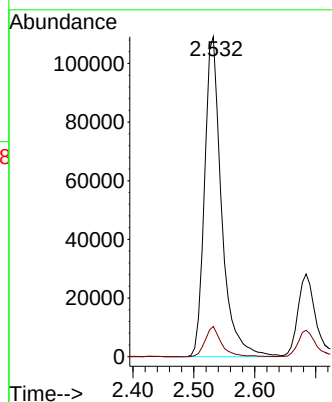
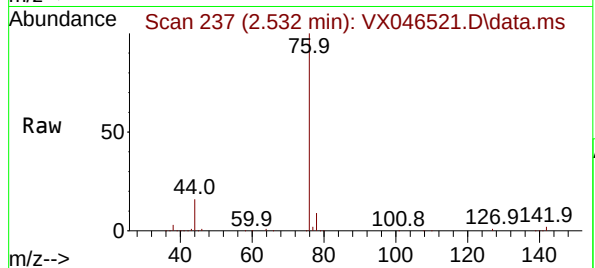
#17
Carbon Disulfide
Concen: 96.592 ug/l
RT: 2.532 min Scan# 21167
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion: 76 Resp: 21167
Ion Ratio Lower Upper
76 100
78 9.4 7.0 10.4

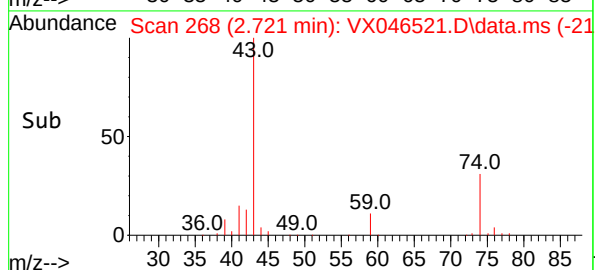
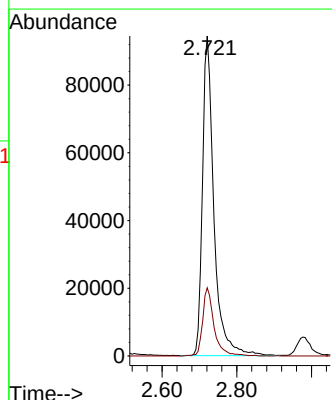
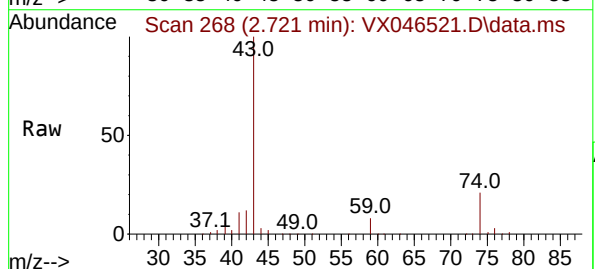
Manual Integrations
APPROVED

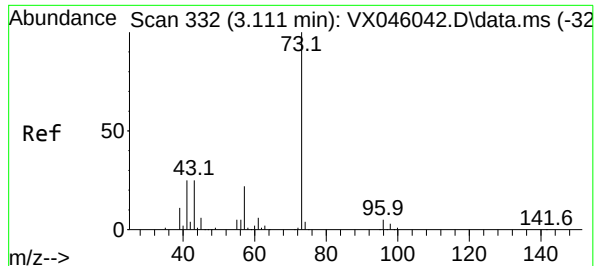
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#18
Methyl Acetate
Concen: 108.991 ug/l
RT: 2.721 min Scan# 268
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 43 Resp: 200390
Ion Ratio Lower Upper
43 100
74 21.2 16.7 25.1





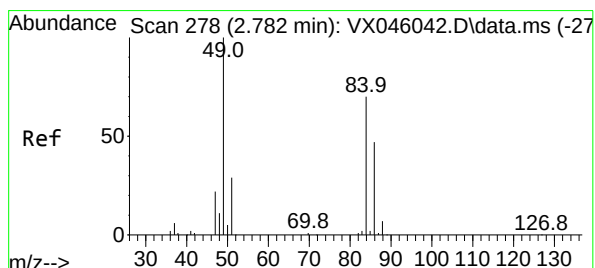
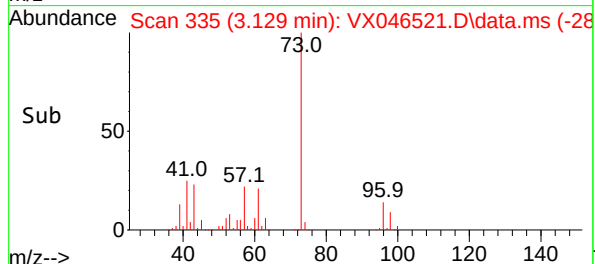
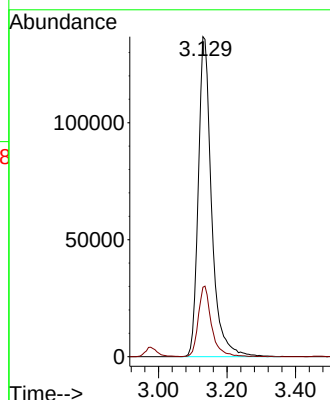
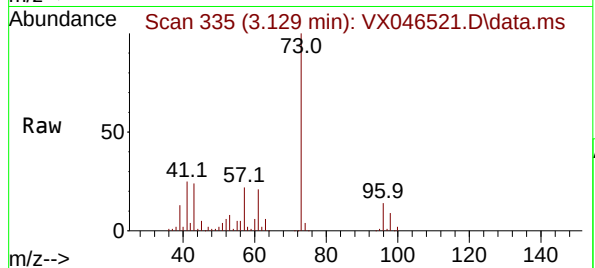
#19
Methyl tert-butyl Ether
Concen: 102.579 ug/l
RT: 3.129 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 73 Resp: 369725
Ion Ratio Lower Upper
73 100
57 21.7 17.7 26.5

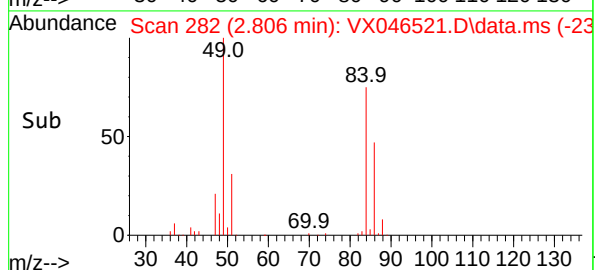
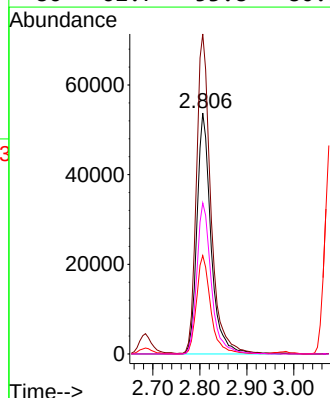
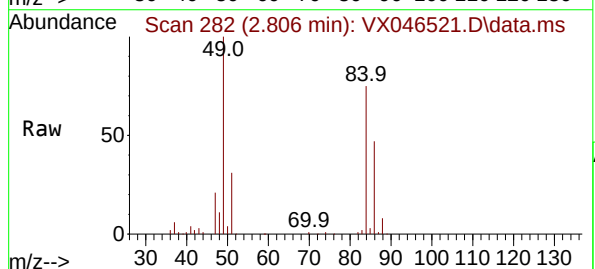
Manual Integrations
APPROVED

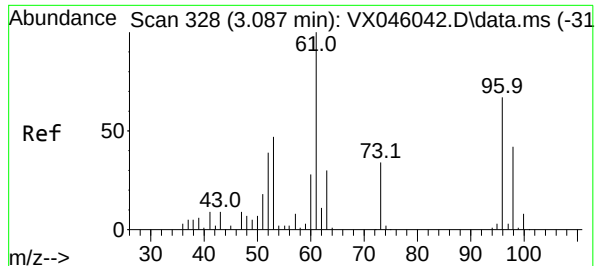
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 90.472 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

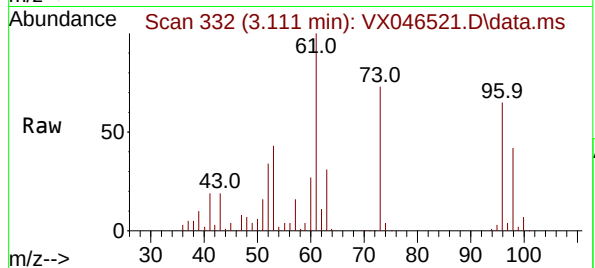
Tgt Ion: 84 Resp: 112036
Ion Ratio Lower Upper
84 100
49 132.4 113.9 170.9
51 40.8 33.5 50.3
86 62.7 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 90.207 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

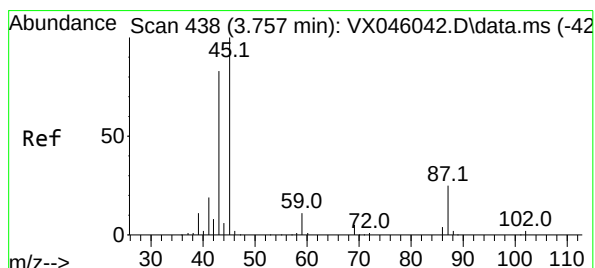
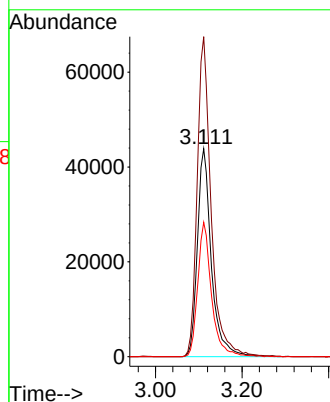
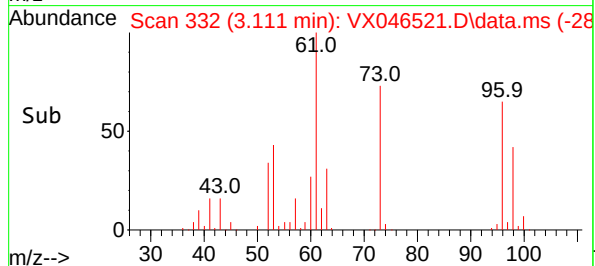
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 96 Resp: 9833
Ion Ratio Lower Upper
96 100
61 153.8 119.5 179.3
98 64.6 50.0 75.0

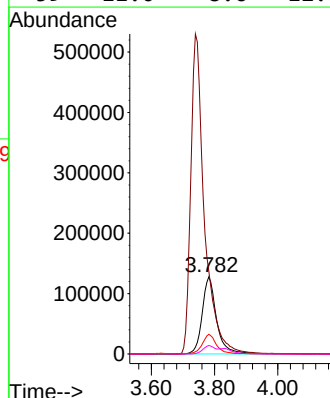
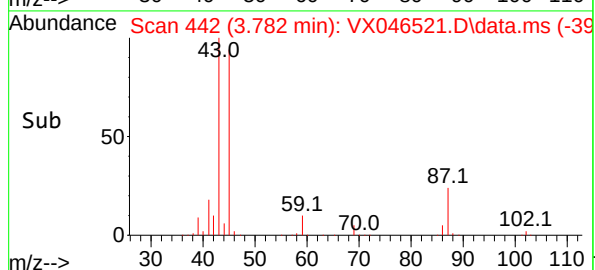
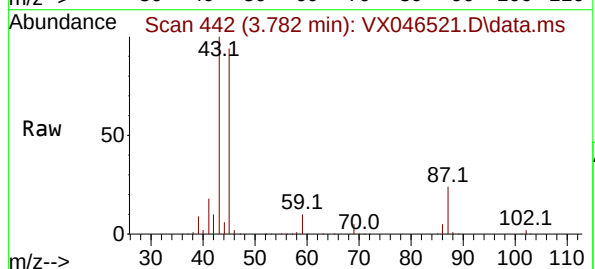
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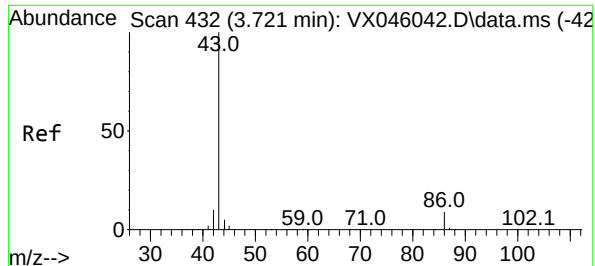
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 100.889 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 45 Resp: 402386
Ion Ratio Lower Upper
45 100
43 106.7 66.6 100.0#
87 25.5 19.8 29.6
59 11.0 8.6 12.8





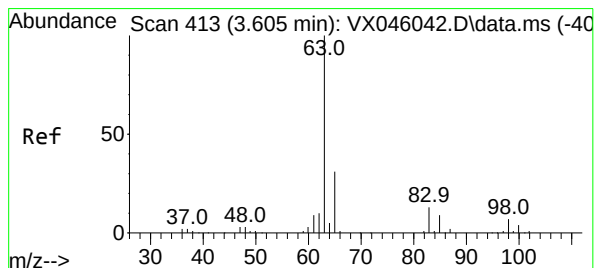
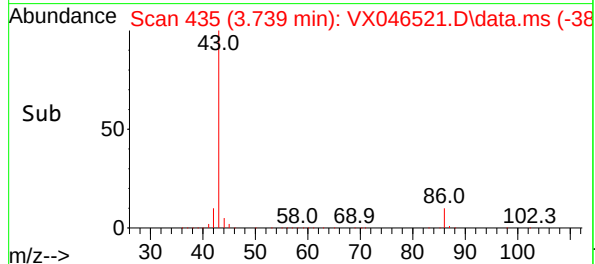
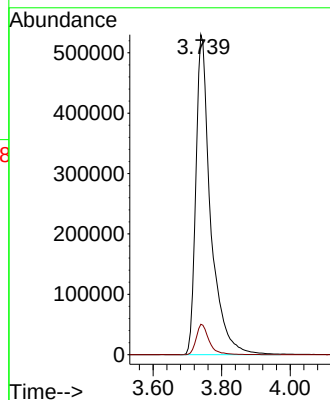
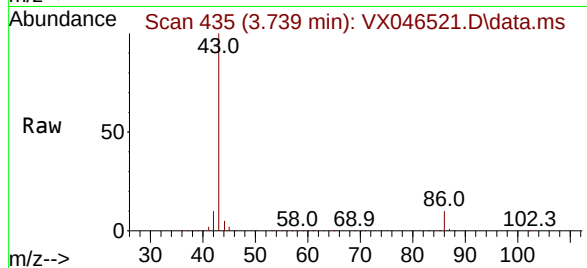
#23
Vinyl Acetate
Concen: 515.860 ug/l
RT: 3.739 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 158847
Ion Ratio Lower Upper
43 100
86 9.5 7.5 11.3

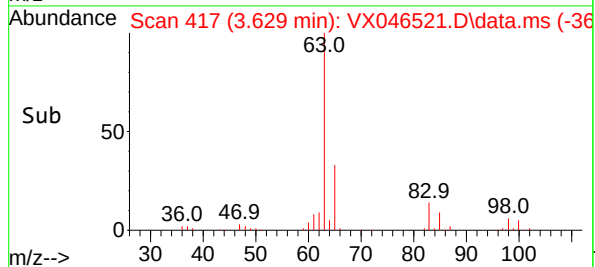
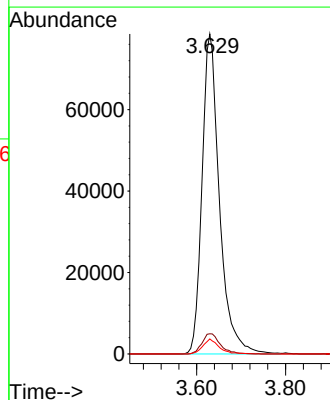
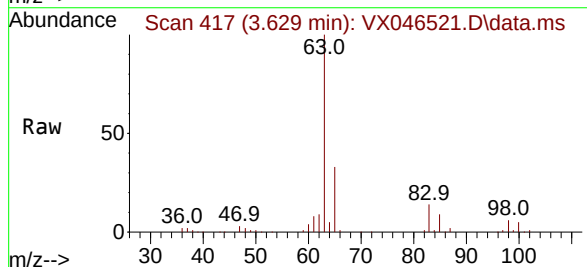
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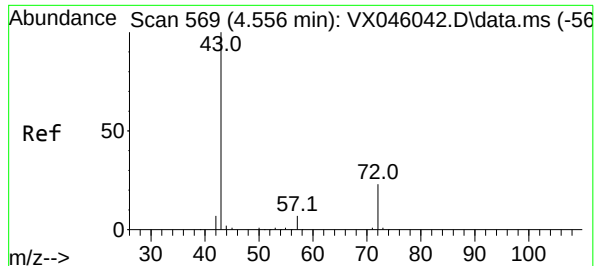
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 96.351 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 63 Resp: 214175
Ion Ratio Lower Upper
63 100
98 6.3 3.6 10.8
100 4.7 2.1 6.3





#25

2-Butanone

Concen: 516.388 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 443718

Ion Ratio Lower Upper

43 100

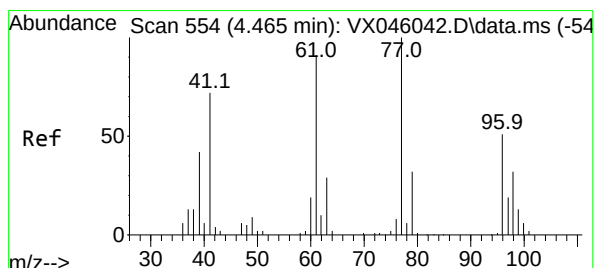
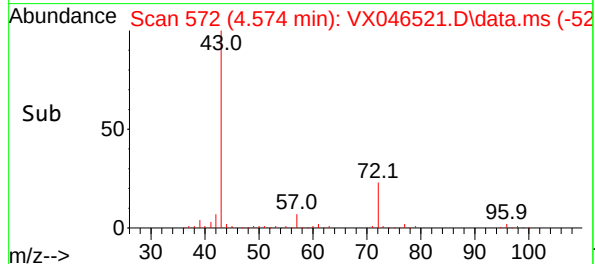
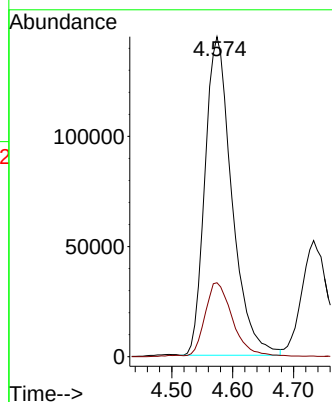
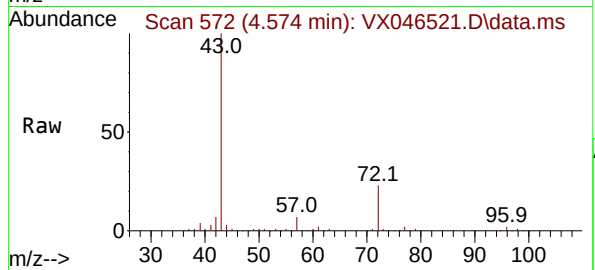
72 22.8 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 101.809 ug/l

RT: 4.501 min Scan# 560

Delta R.T. 0.006 min

Lab File: VX046521.D

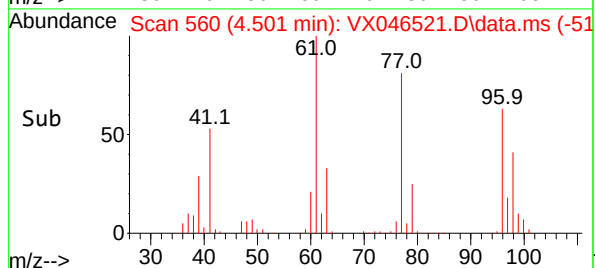
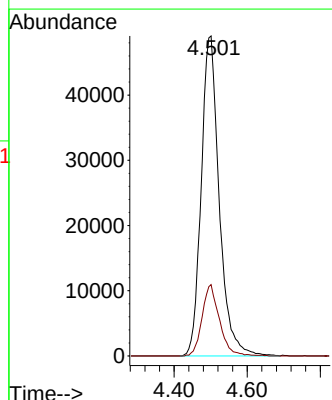
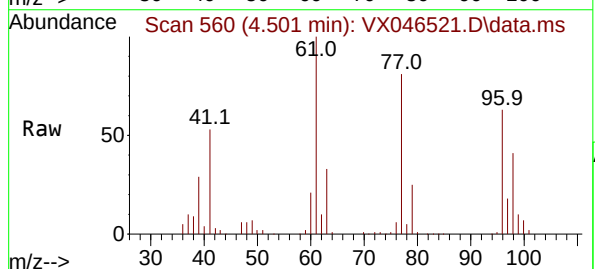
Acq: 06 Jun 2025 11:02

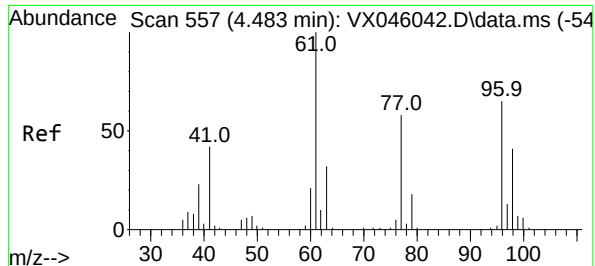
Tgt Ion: 77 Resp: 168003

Ion Ratio Lower Upper

77 100

97 21.5 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 94.172 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 96 Resp: 12637

Ion Ratio Lower Upper

96 100

61 159.3 0.0 322.8

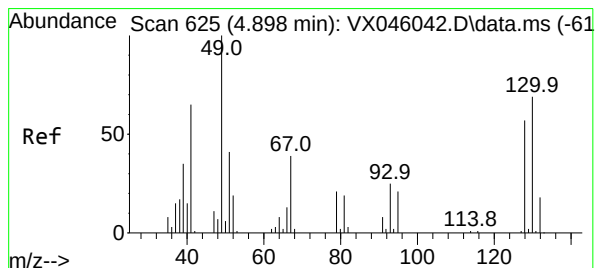
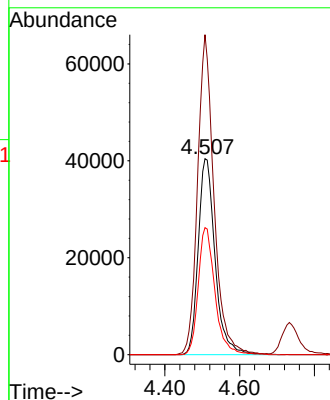
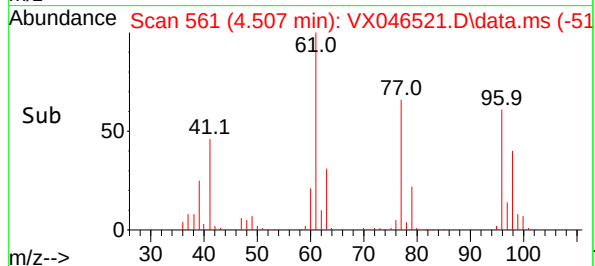
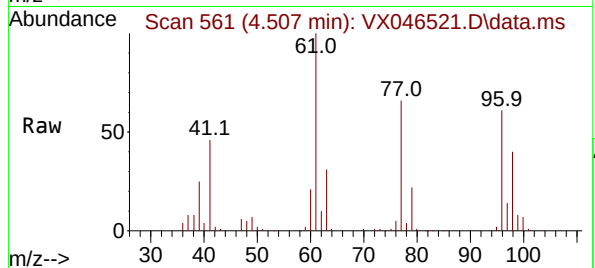
98 64.4 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 97.287 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

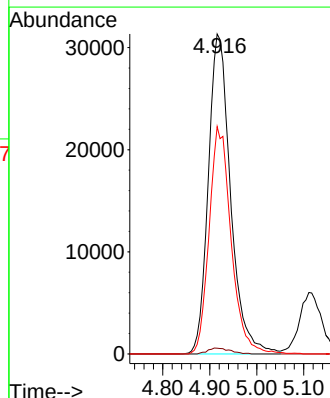
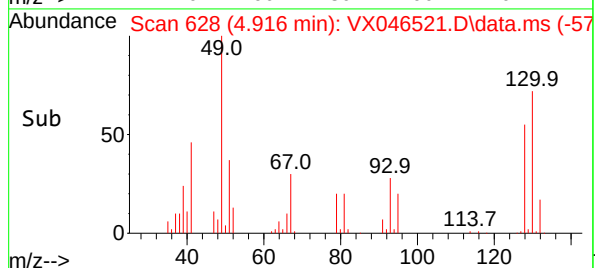
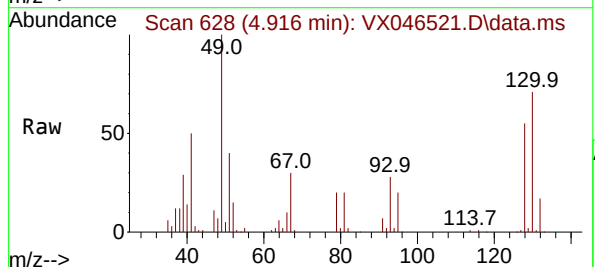
Tgt Ion: 49 Resp: 103145

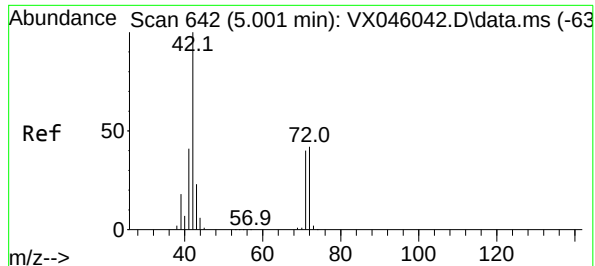
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 70.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 512.155 ug/l

RT: 5.019 min Scan# 642

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 42 Resp: 277920

Ion Ratio Lower Upper

42 100

72 41.0 33.7 50.5

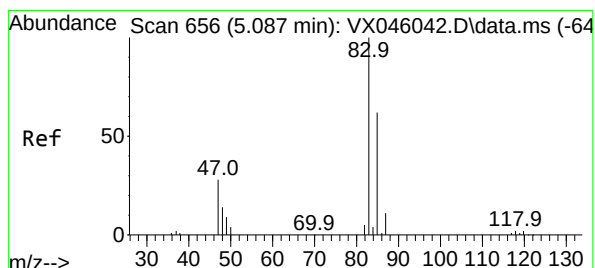
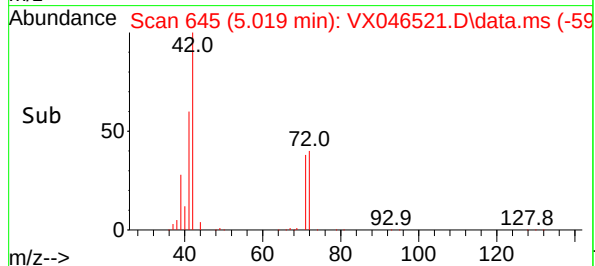
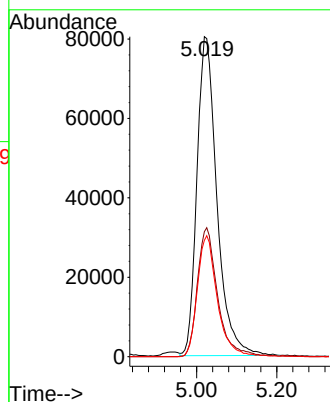
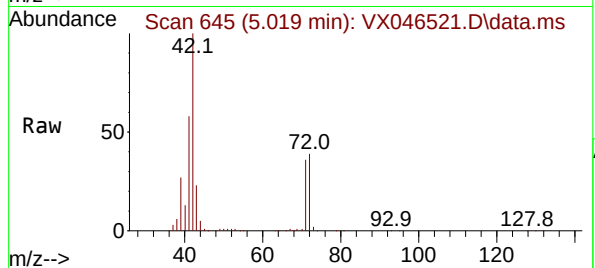
71 38.0 31.4 47.2

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 96.128 ug/l

RT: 5.117 min Scan# 661

Delta R.T. 0.006 min

Lab File: VX046521.D

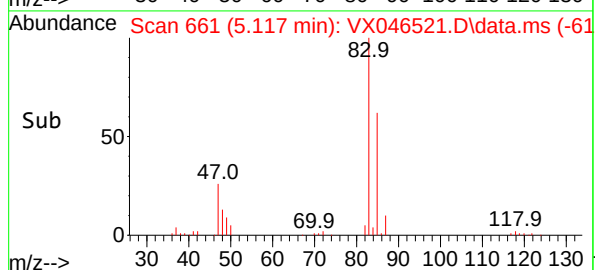
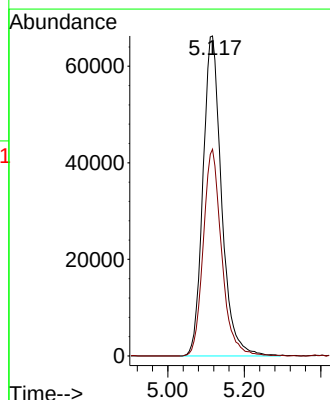
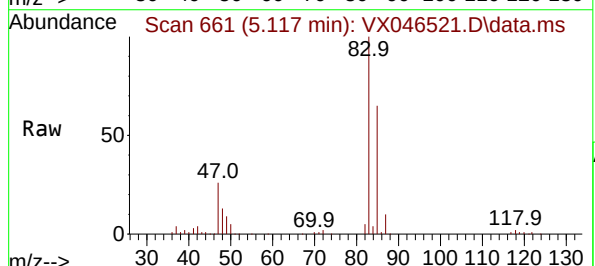
Acq: 06 Jun 2025 11:02

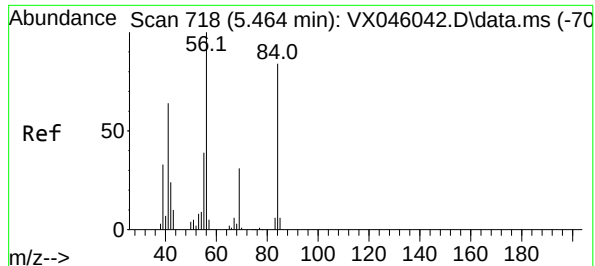
Tgt Ion: 83 Resp: 223890

Ion Ratio Lower Upper

83 100

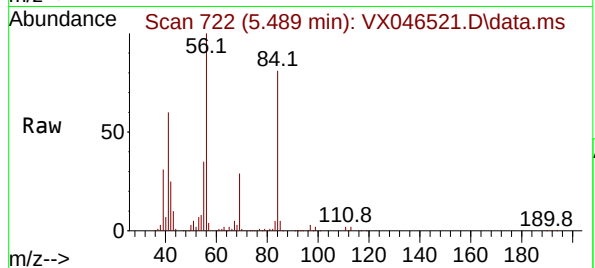
85 64.6 49.3 73.9





#31
Cyclohexane
Concen: 94.175 ug/l
RT: 5.489 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

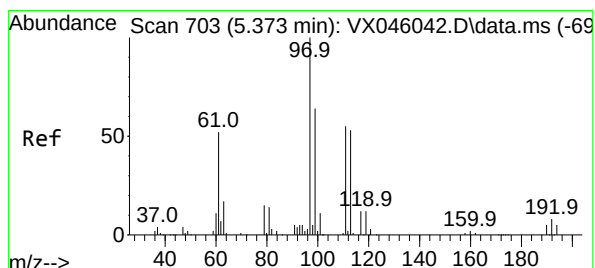
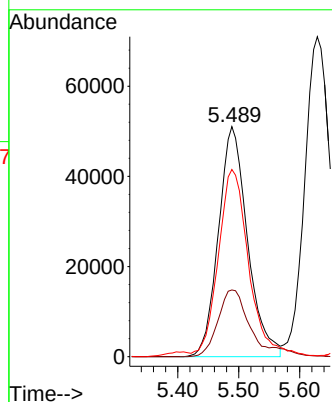
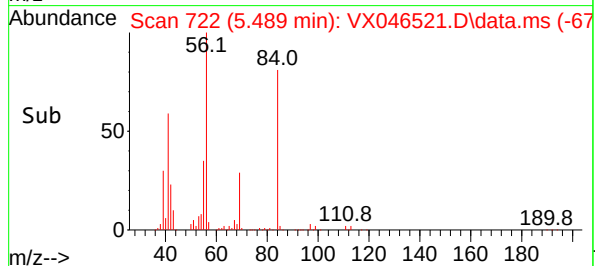
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 56 Resp: 16899
Ion Ratio Lower Upper
56 100
69 29.0 24.4 36.6
84 79.4 66.9 100.3

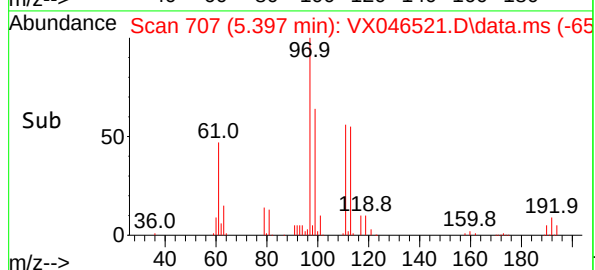
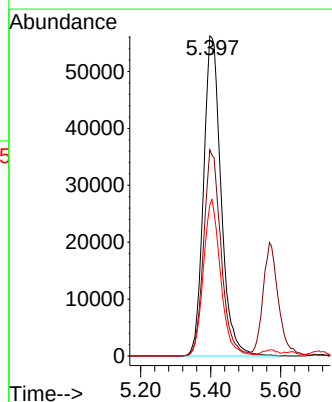
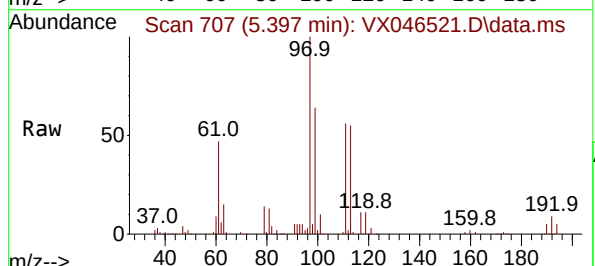
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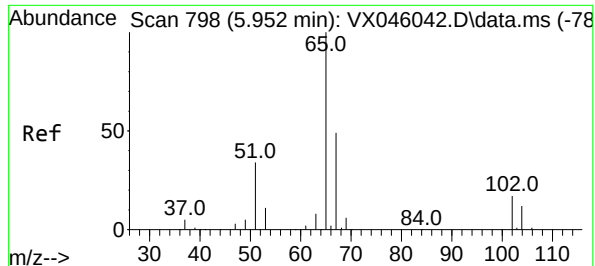
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#32
1,1,1-Trichloroethane
Concen: 98.210 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 97 Resp: 195664
Ion Ratio Lower Upper
97 100
99 63.7 51.8 77.6
61 48.1 40.1 60.1





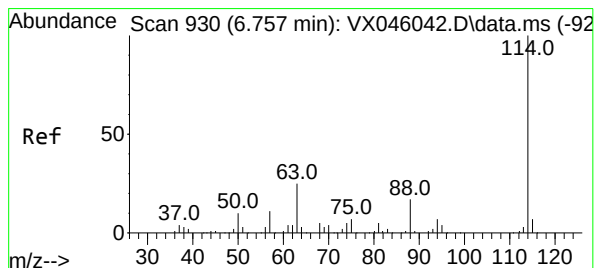
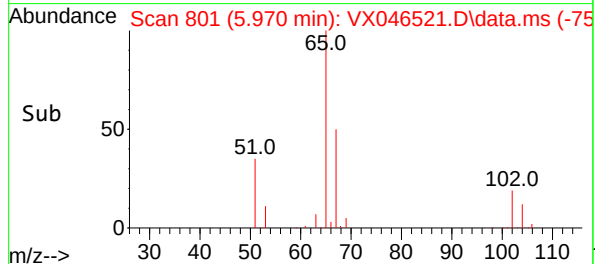
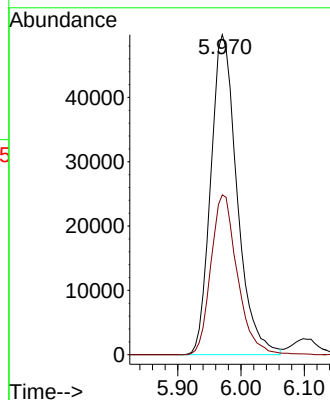
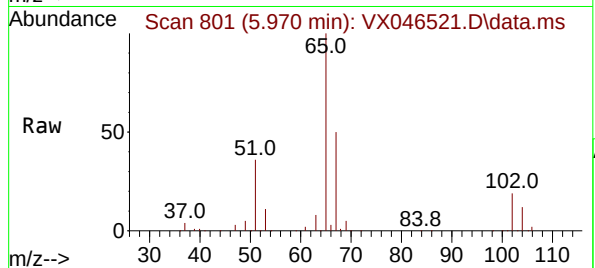
#33
1,2-Dichloroethane-d4
Concen: 93.131 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 65 Resp: 143754
Ion Ratio Lower Upper
65 100
67 50.3 0.0 99.0

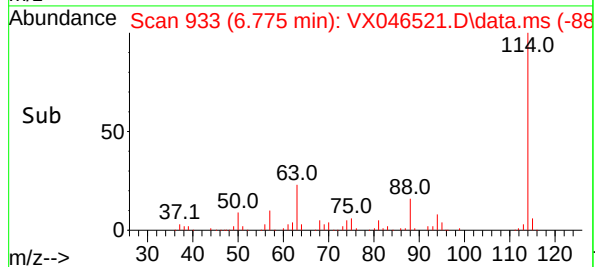
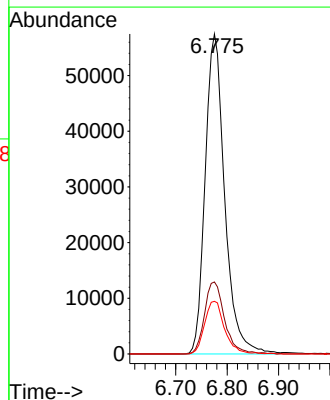
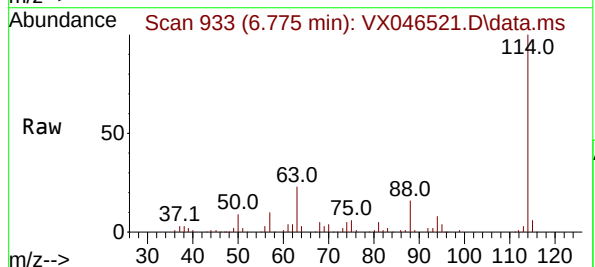
Manual Integrations
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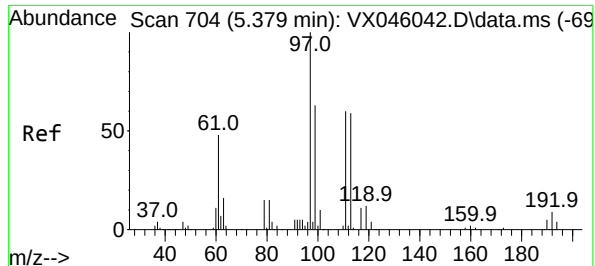
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 933
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion:114 Resp: 151628
Ion Ratio Lower Upper
114 100
63 22.5 0.0 49.2
88 16.5 0.0 33.6





#35

Dibromofluoromethane

Concen: 94.377 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:113 Resp: 10523

Ion Ratio Lower Upper

113 100

111 105.0 83.1 124.7

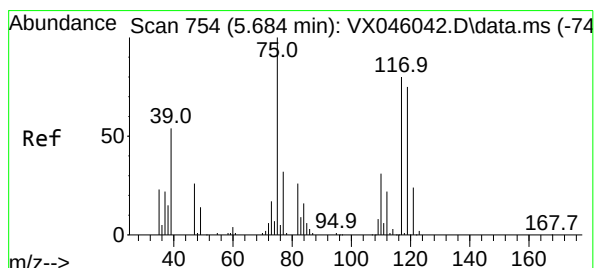
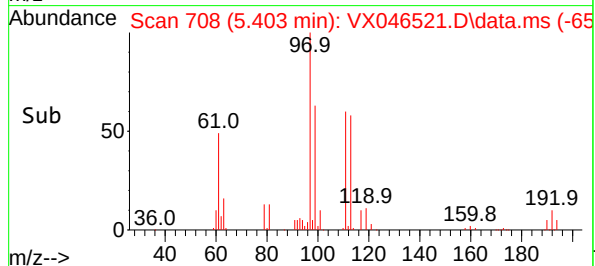
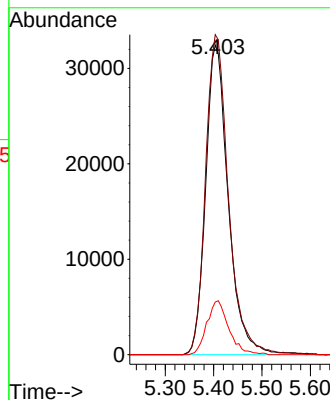
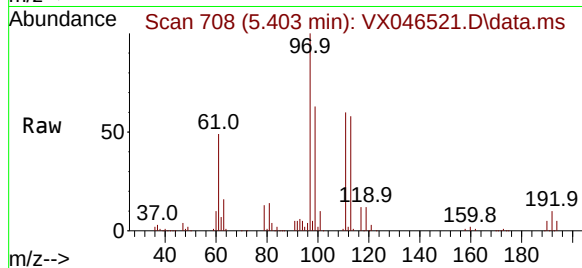
192 17.0 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 87.846 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

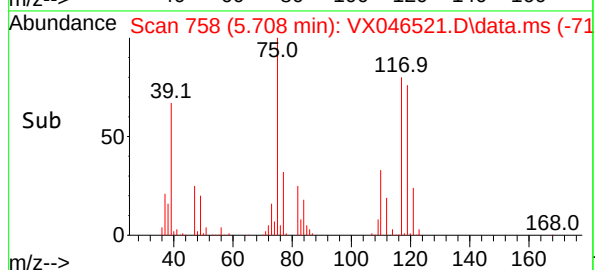
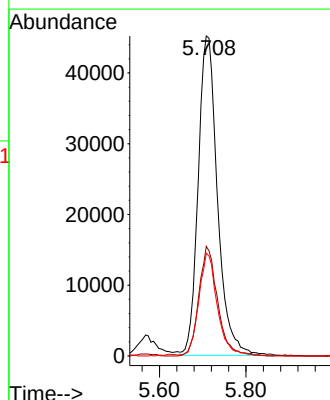
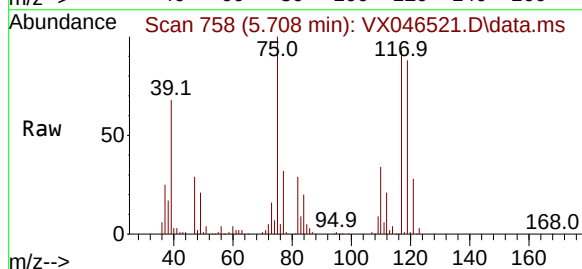
Tgt Ion: 75 Resp: 139920

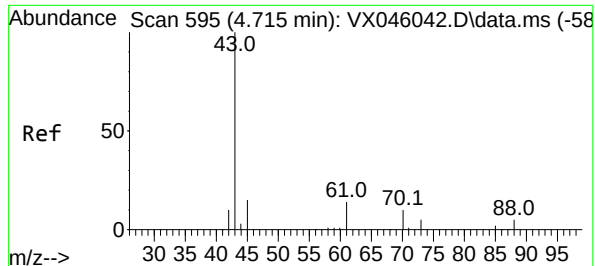
Ion Ratio Lower Upper

75 100

110 33.3 16.3 48.9

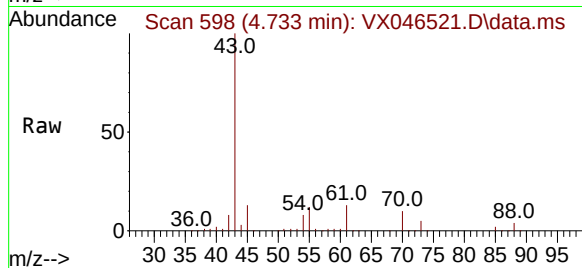
77 31.1 24.3 36.5





#37
Ethyl Acetate
Concen: 110.381 ug/l
RT: 4.733 min Scan# 595
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

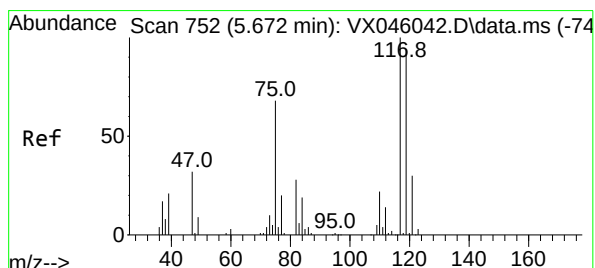
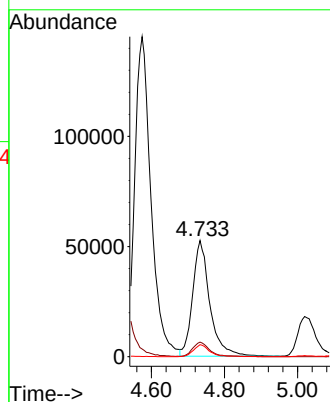
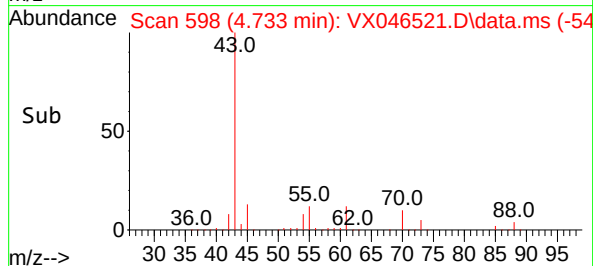
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion: 43 Resp: 171559
Ion Ratio Lower Upper
43 100
61 11.7 10.3 15.5
70 9.5 7.9 11.9

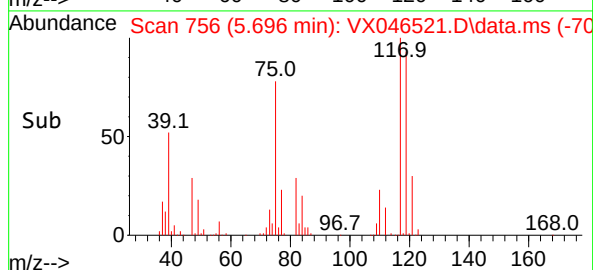
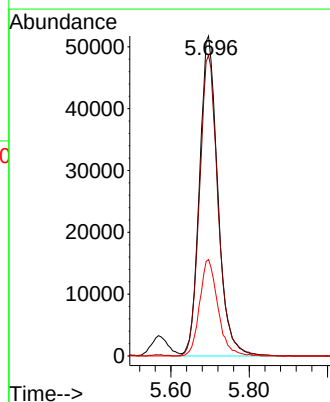
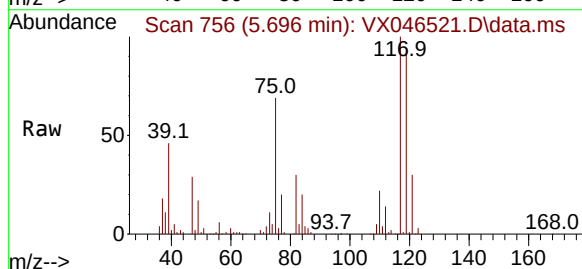
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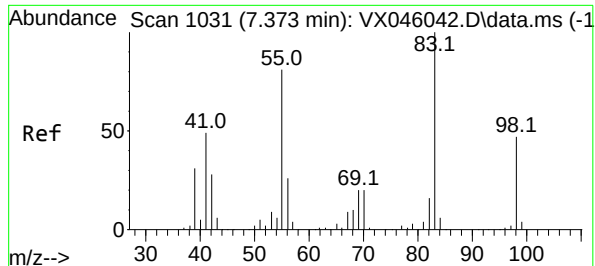
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#38
Carbon Tetrachloride
Concen: 94.183 ug/l
RT: 5.696 min Scan# 756
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion:117 Resp: 168024
Ion Ratio Lower Upper
117 100
119 93.9 75.2 112.8
121 30.1 24.2 36.4





#39

Methylcyclohexane

Concen: 91.127 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 83 Resp: 17132

Ion Ratio Lower Upper

83 100

55 82.7 64.7 97.1

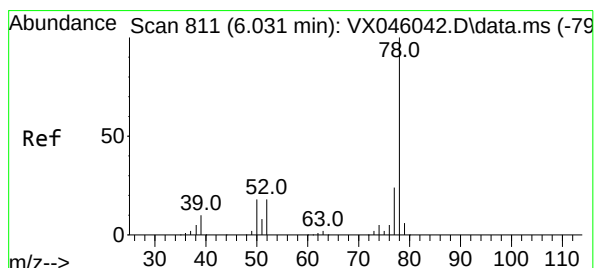
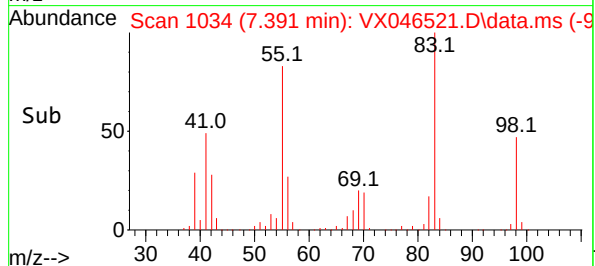
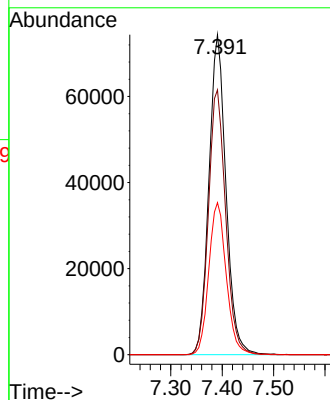
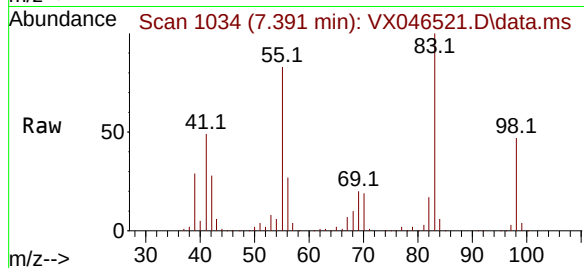
98 47.5 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 93.347 ug/l

RT: 6.056 min Scan# 815

Delta R.T. 0.000 min

Lab File: VX046521.D

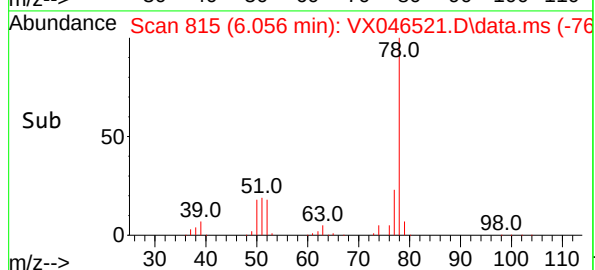
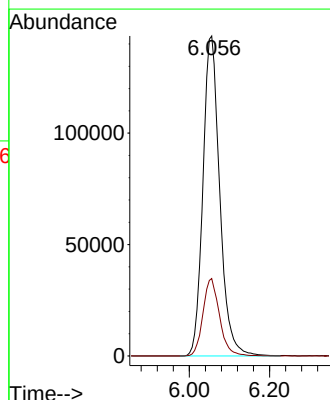
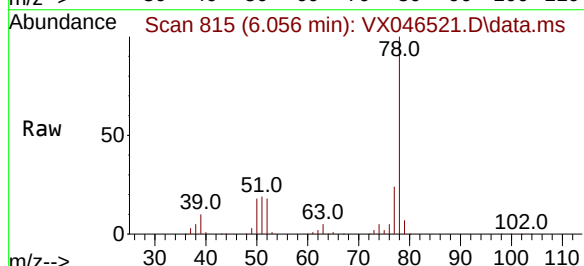
Acq: 06 Jun 2025 11:02

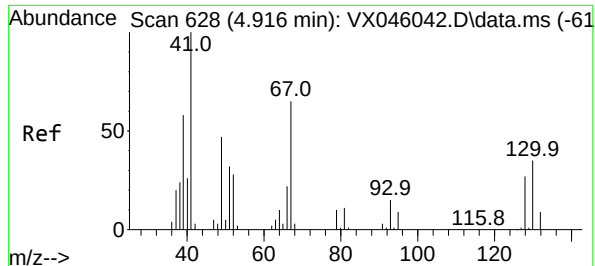
Tgt Ion: 78 Resp: 418566

Ion Ratio Lower Upper

78 100

77 24.2 19.0 28.4





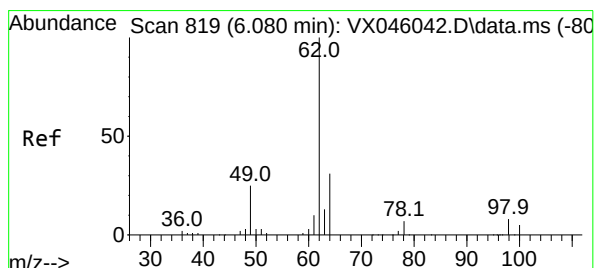
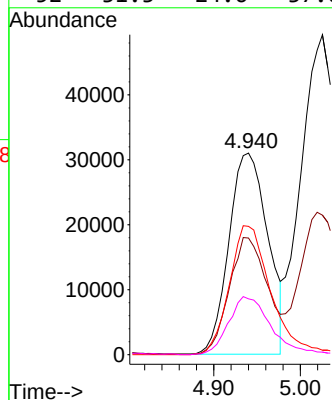
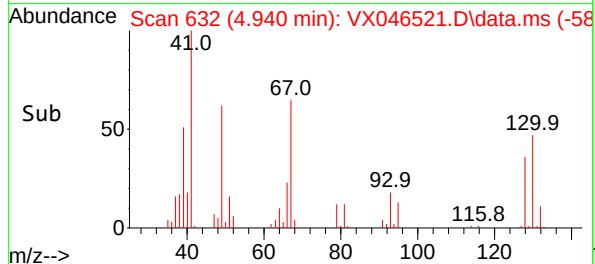
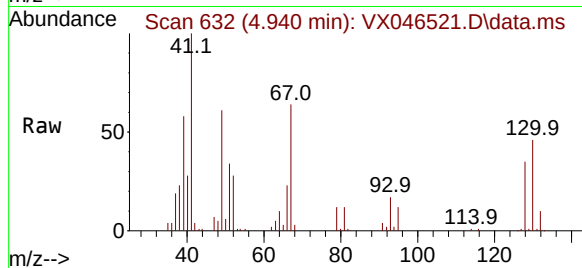
#41
Methacrylonitrile
Concen: 100.381 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC100

Tgt Ion: 41 Resp: 96904
Ion Ratio Lower Upper
41 100
39 56.4 47.2 70.8
67 68.8 50.7 76.1
52 31.3 24.6 37.0

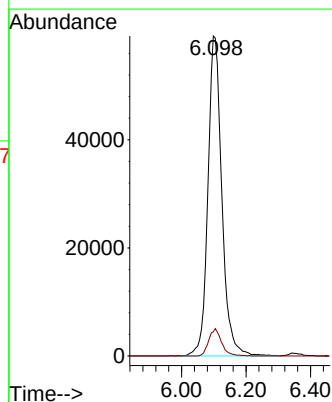
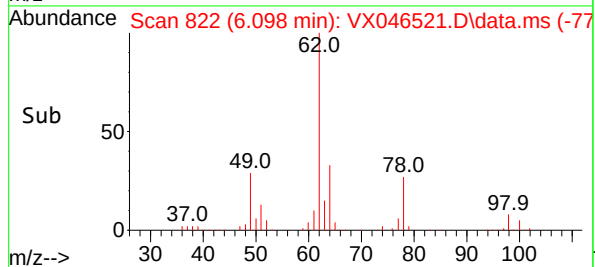
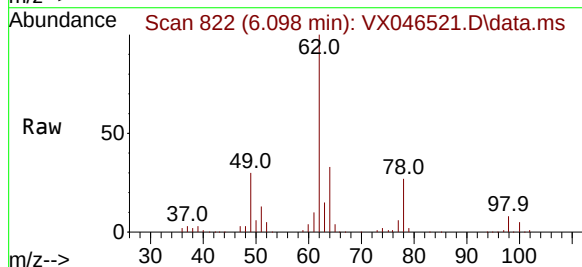
Manual Integrations
APPROVED

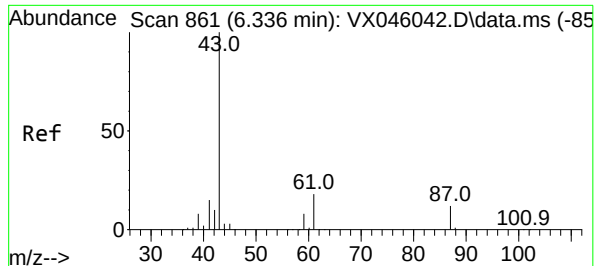
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 95.311 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 62 Resp: 177798
Ion Ratio Lower Upper
62 100
98 7.9 0.0 15.2





#43

Isopropyl Acetate

Concen: 104.651 ug/l

RT: 6.354 min Scan# 80

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 28361

Ion Ratio Lower Upper

43

100

61

17.9

87

11.6

14.3

9.5

21.5

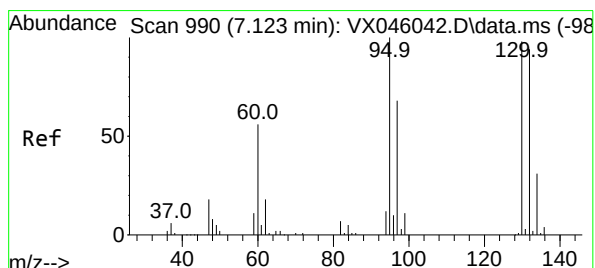
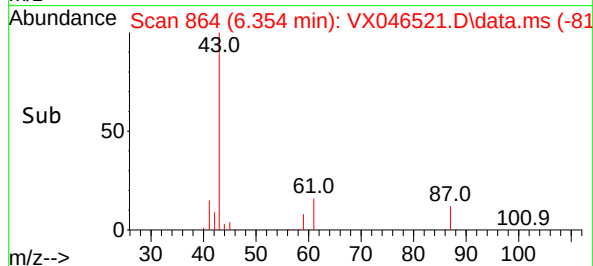
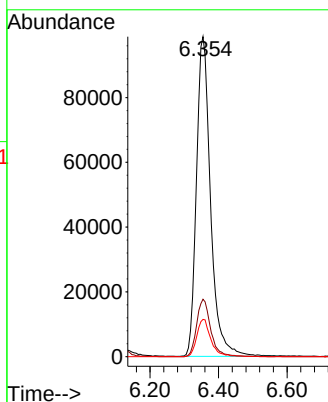
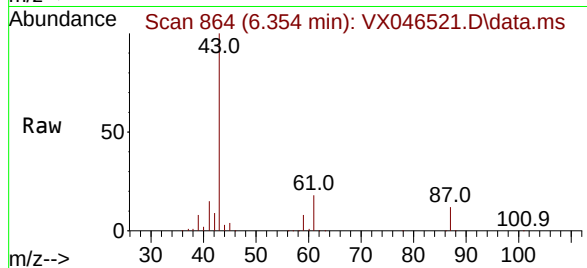
14.3

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 88.399 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Tgt Ion:130 Resp: 100714

Ion Ratio Lower Upper

130

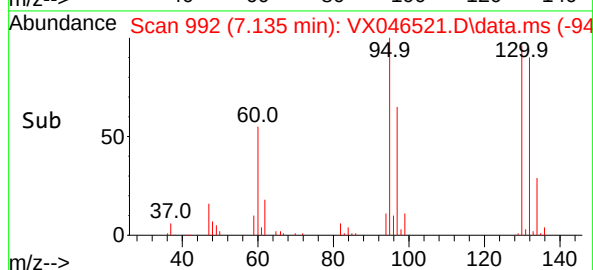
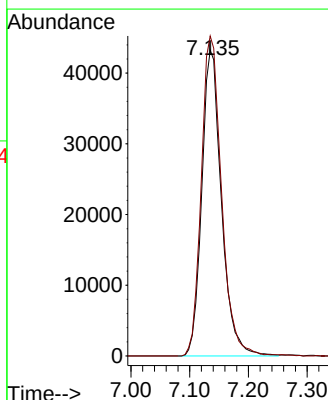
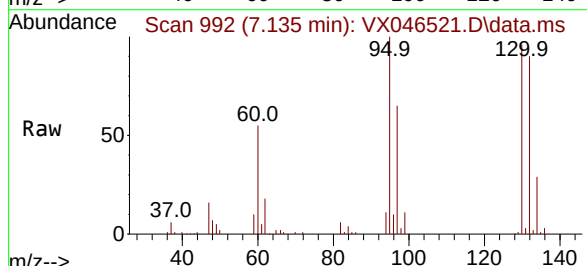
100

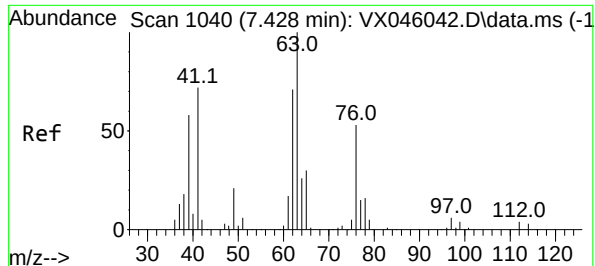
95

104.6

0.0

204.2





#45

1,2-Dichloropropane

Concen: 97.071 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 63 Resp: 112349

Ion Ratio Lower Upper

63 100

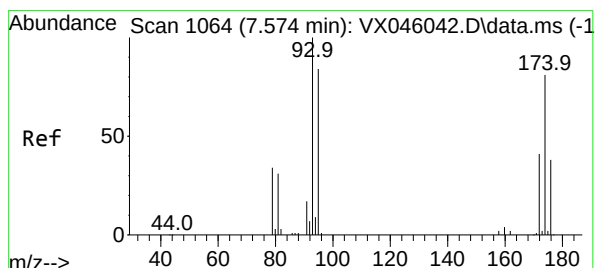
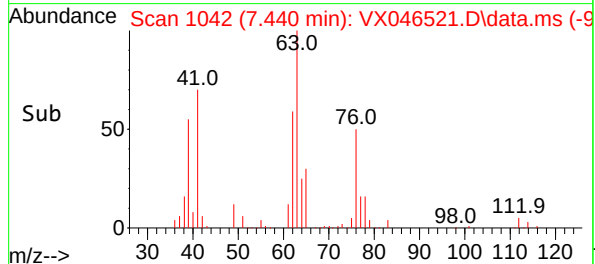
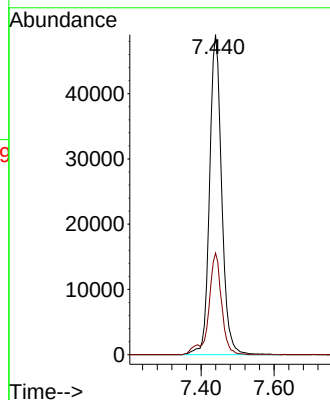
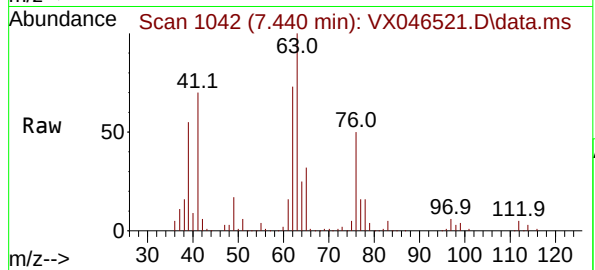
65 31.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 94.883 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

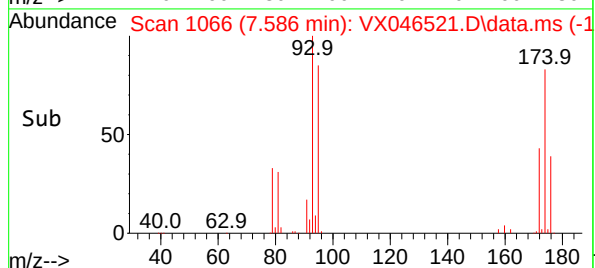
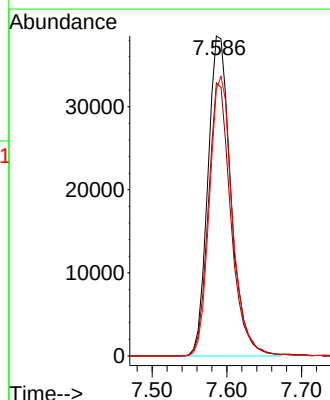
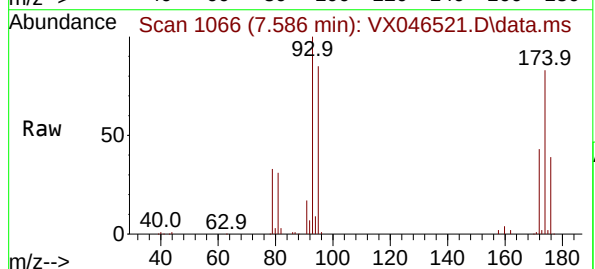
Tgt Ion: 93 Resp: 82614

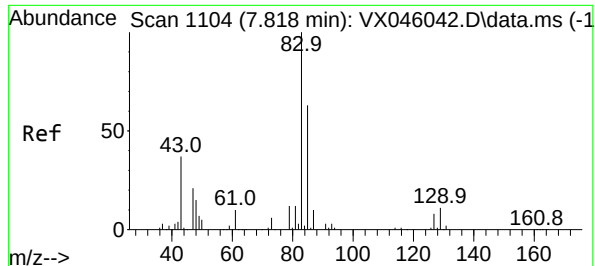
Ion Ratio Lower Upper

93 100

95 83.6 65.6 98.4

174 86.7 68.2 102.2





#47

Bromodichloromethane

Concen: 99.847 ug/l

RT: 7.830 min Scan# 1104

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 83 Resp: 17875

Ion Ratio Lower Upper

83 100

85 63.5 50.5 75.7

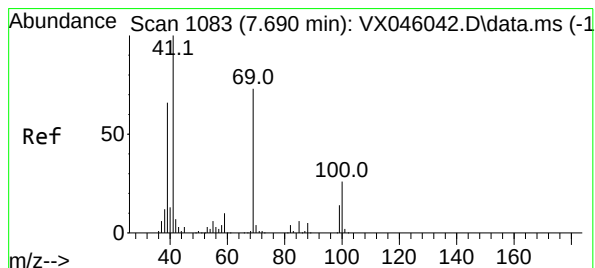
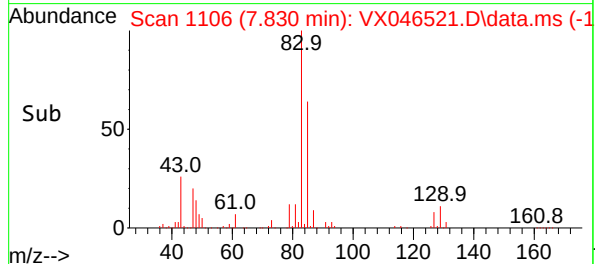
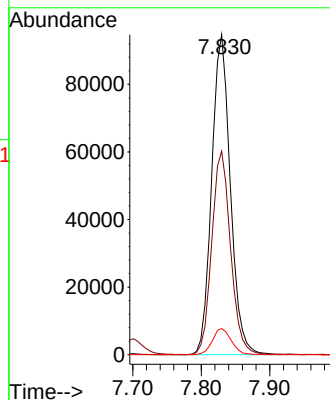
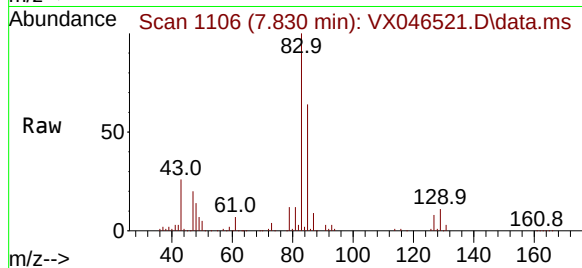
127 8.2 6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 106.461 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

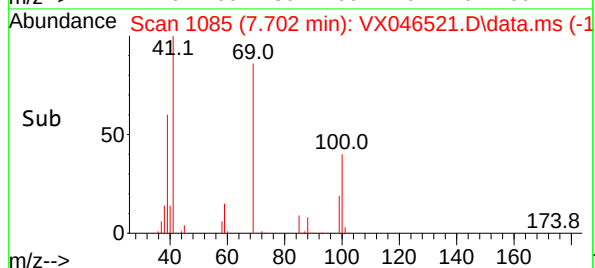
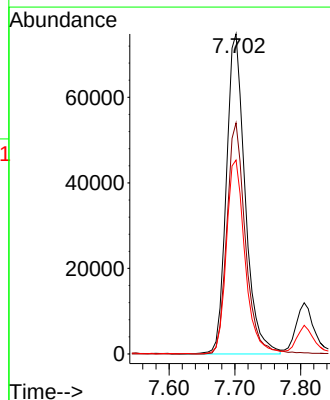
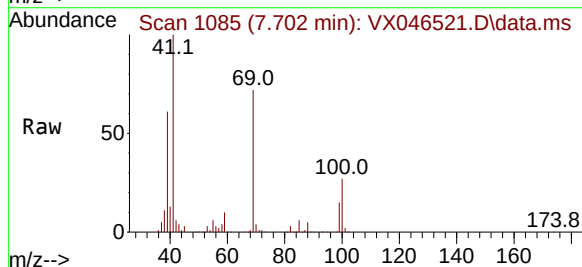
Tgt Ion: 41 Resp: 148448

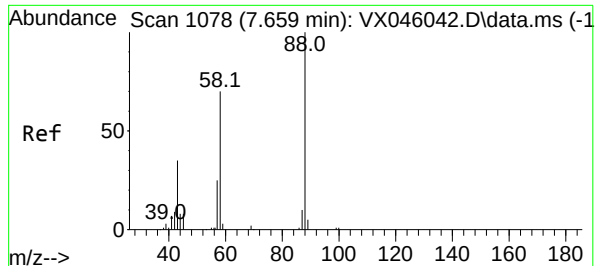
Ion Ratio Lower Upper

41 100

69 71.9 58.5 87.7

39 60.4 51.7 77.5





#49

1,4-Dioxane

Concen: 2119.509 ug/l

RT: 7.671 min Scan# 1080

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

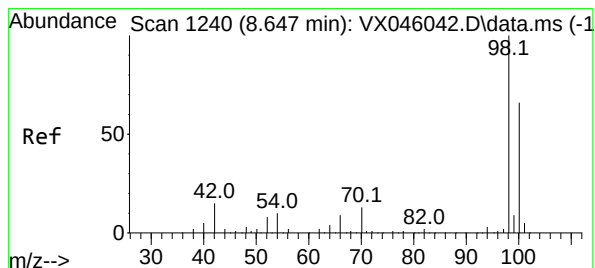
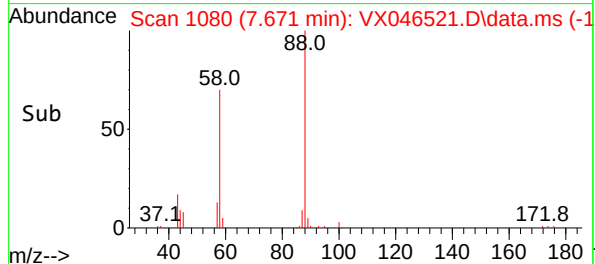
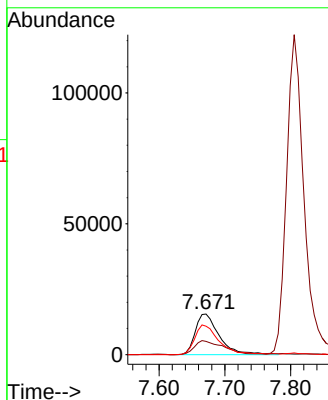
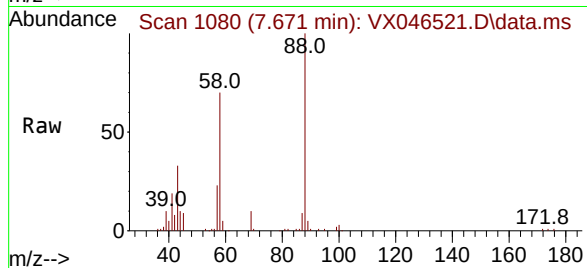
Tgt Ion:	88	Resp:	3952
Ion	Ratio	Lower	Upper
88	100		
43	42.2	33.4	50.2
58	73.9	58.6	88.0

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 93.402 ug/l

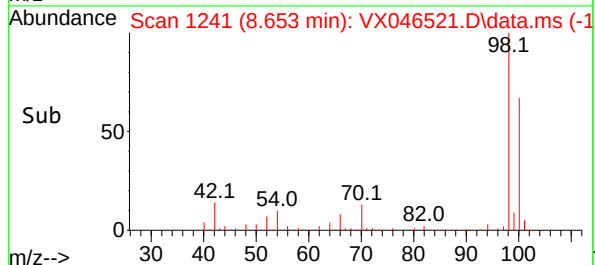
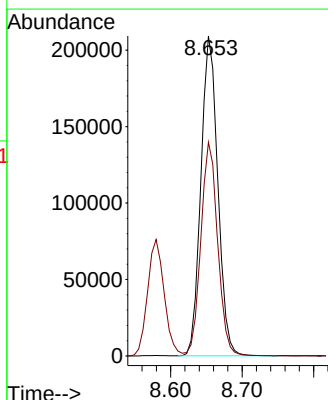
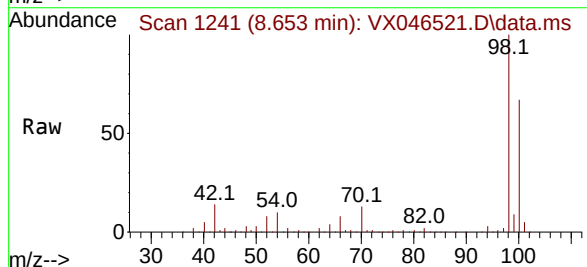
RT: 8.653 min Scan# 1241

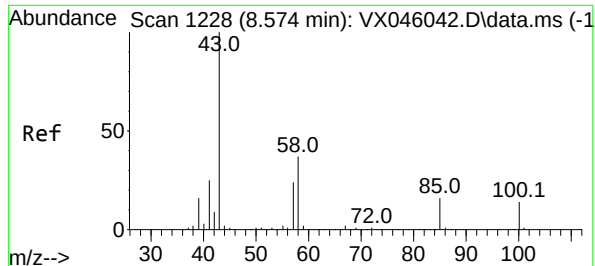
Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Tgt Ion:	98	Resp:	343367
Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.5	80.3





#51

4-Methyl-2-Pentanone

Concen: 512.682 ug/l

RT: 8.580 min Scan# 1228

Delta R.T. 0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 43 Resp: 882920

Ion Ratio Lower Upper

43 100

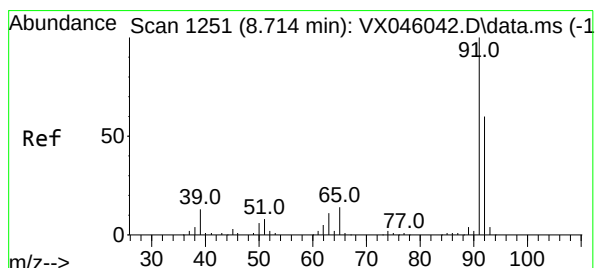
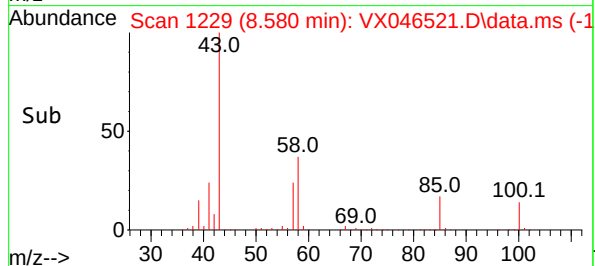
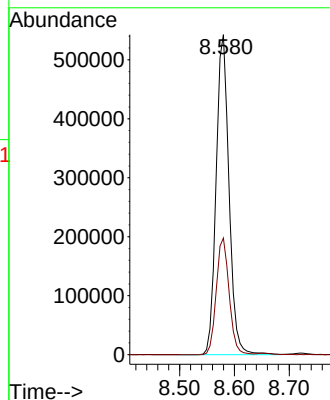
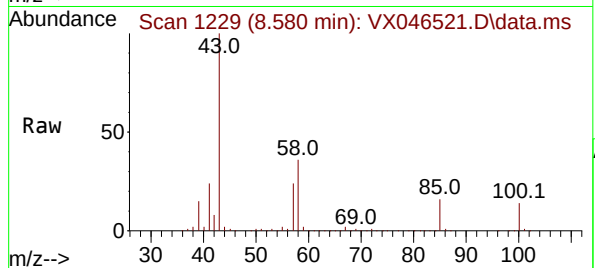
58 36.4 28.9 43.3

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#52

Toluene

Concen: 93.489 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX046521.D

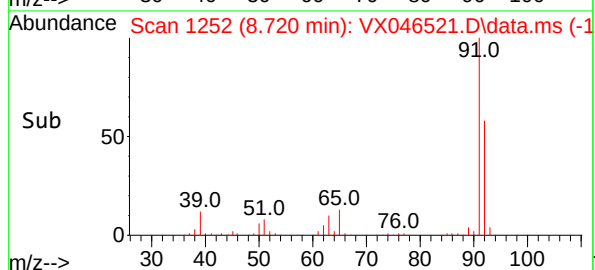
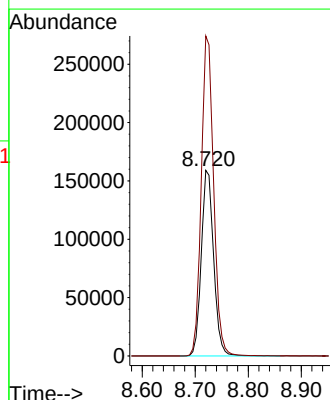
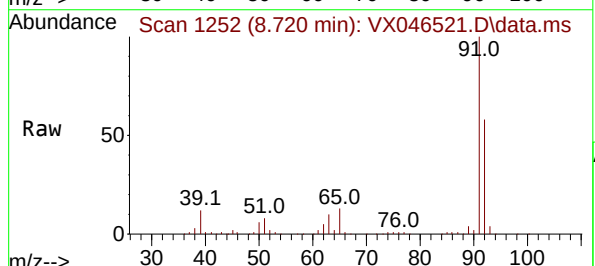
Acq: 06 Jun 2025 11:02

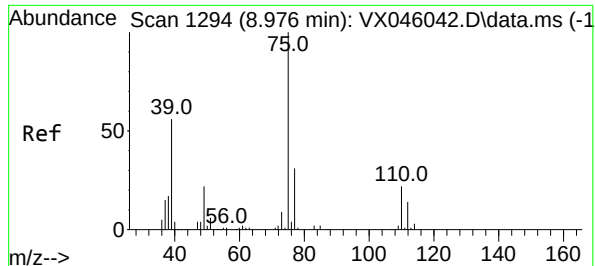
Tgt Ion: 92 Resp: 257539

Ion Ratio Lower Upper

92 100

91 172.7 136.6 205.0





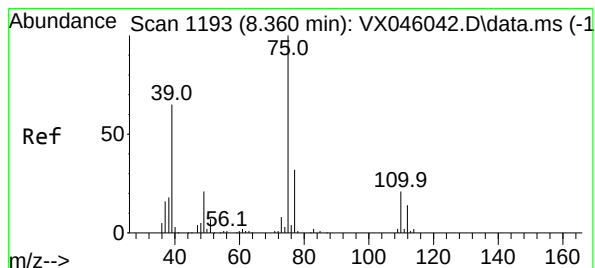
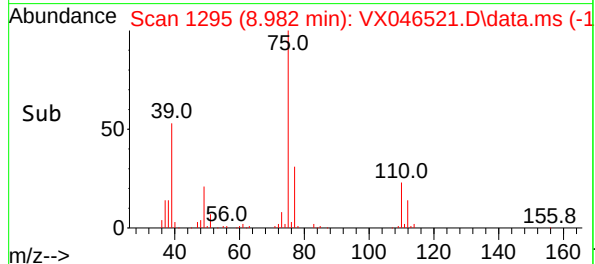
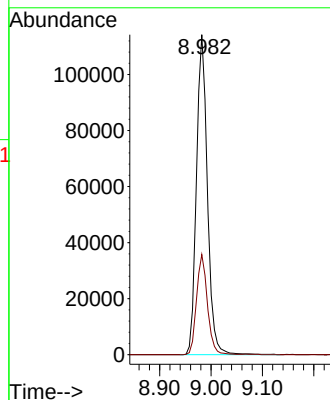
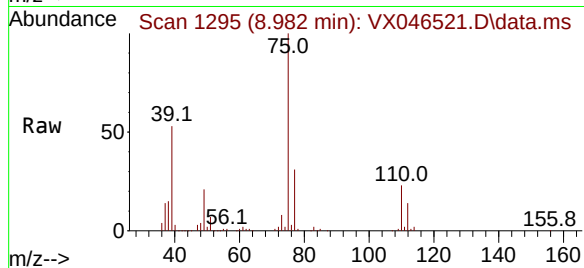
#53
t-1,3-Dichloropropene
Concen: 105.552 ug/l
RT: 8.982 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 16943
Ion Ratio Lower Upper
75 100
77 31.3 25.0 37.6

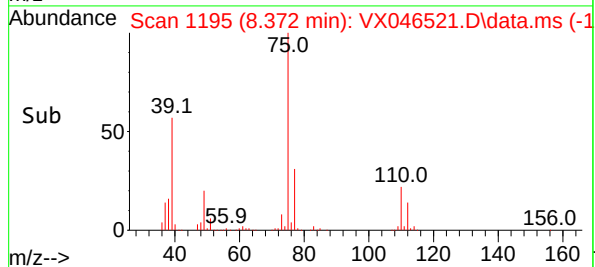
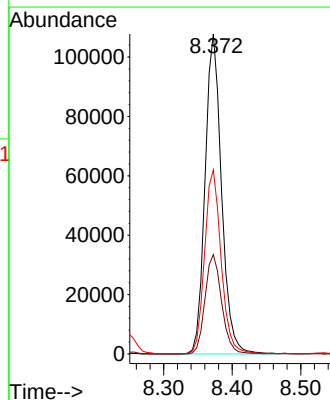
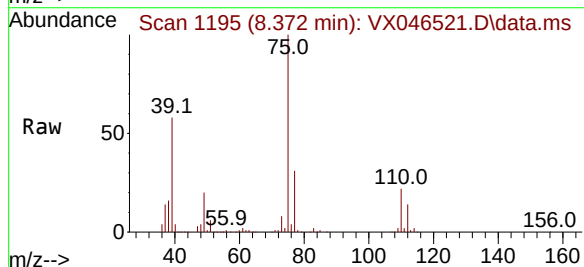
Manual Integrations
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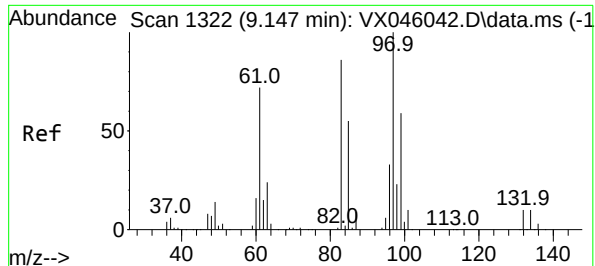
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#54
cis-1,3-Dichloropropene
Concen: 101.023 ug/l
RT: 8.372 min Scan# 1195
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 75 Resp: 180299
Ion Ratio Lower Upper
75 100
77 31.1 25.4 38.0
39 57.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 97.502 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 97 Resp: 10782

Ion Ratio Lower Upper

97 100

83 86.6 69.0 103.6

85 55.5 44.3 66.5

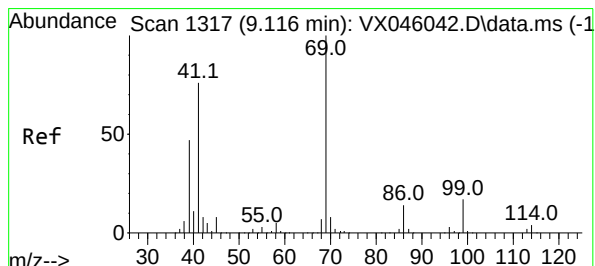
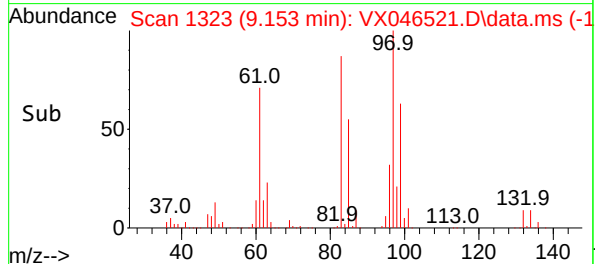
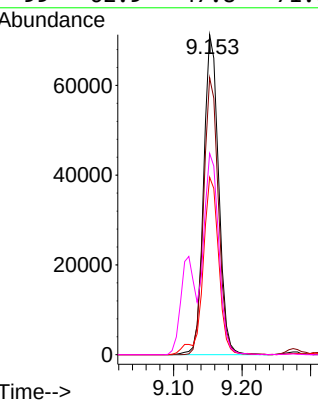
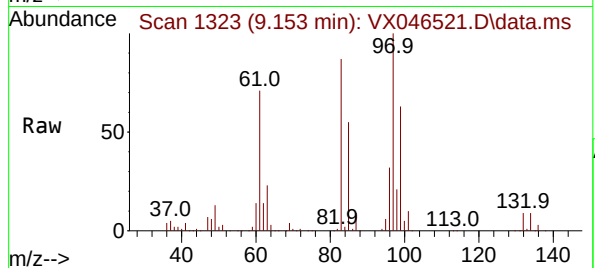
99 62.9 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 105.935 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

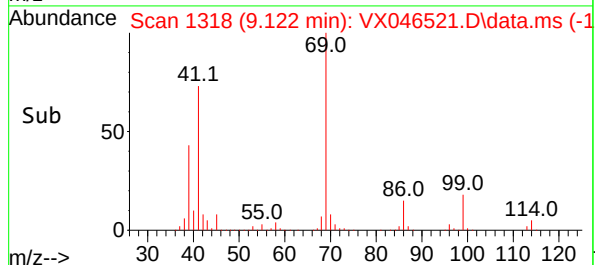
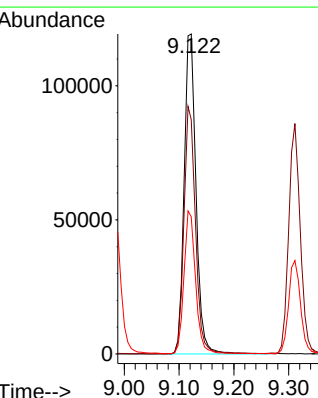
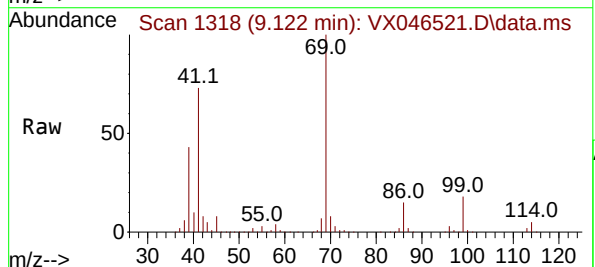
Tgt Ion: 69 Resp: 180282

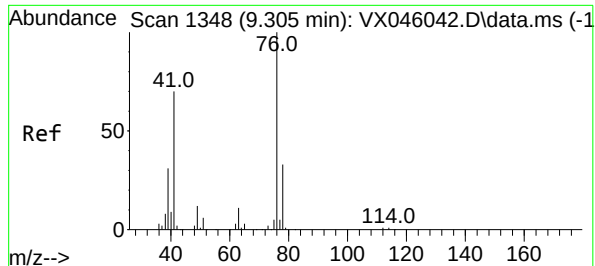
Ion Ratio Lower Upper

69 100

41 75.3 60.8 91.2

39 43.7 39.0 58.6





#57

1,3-Dichloropropane

Concen: 94.990 ug/l

RT: 9.311 min Scan# 1175

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 76 Resp: 18564

Ion Ratio Lower Upper

76 100

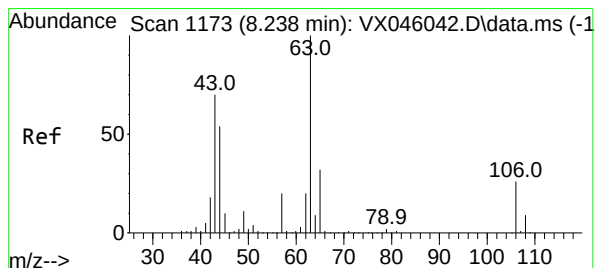
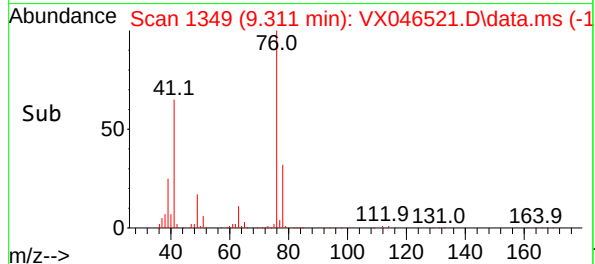
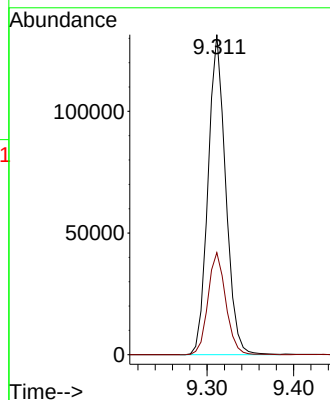
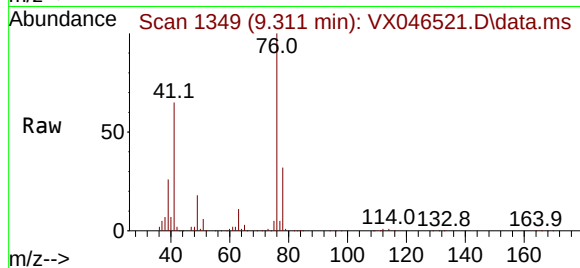
78 32.3 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 509.557 ug/l

RT: 8.250 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX046521.D

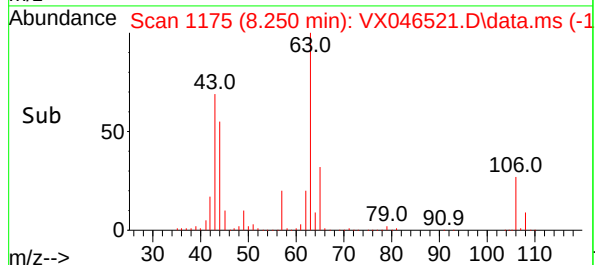
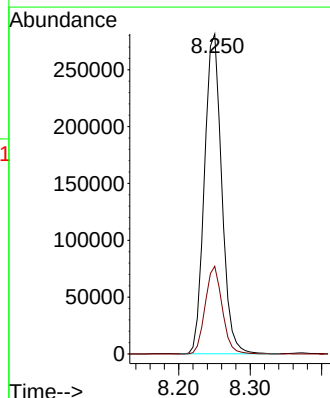
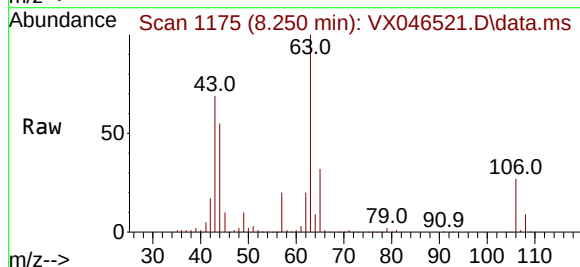
Acq: 06 Jun 2025 11:02

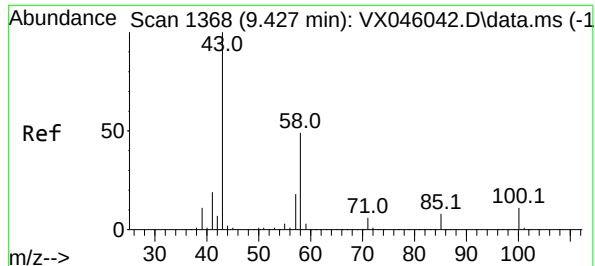
Tgt Ion: 63 Resp: 472343

Ion Ratio Lower Upper

63 100

106 27.0 21.5 32.3





#59

2-Hexanone

Concen: 514.792 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 635829

Ion Ratio Lower Upper

43 100

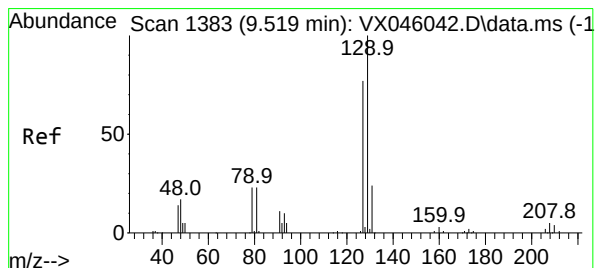
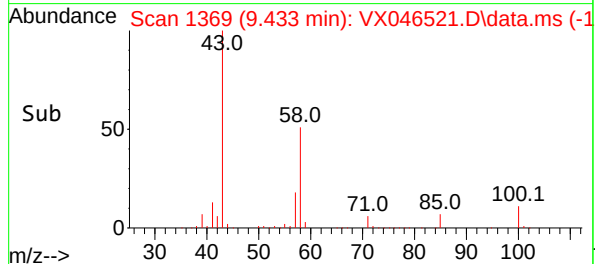
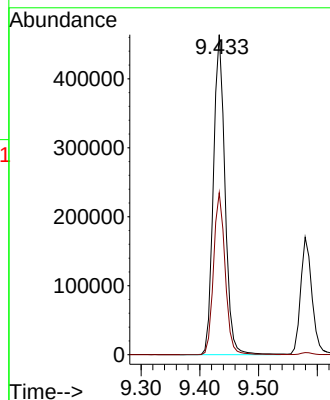
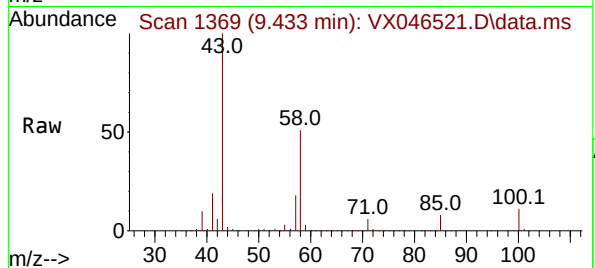
58 50.6 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 98.404 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VX046521.D

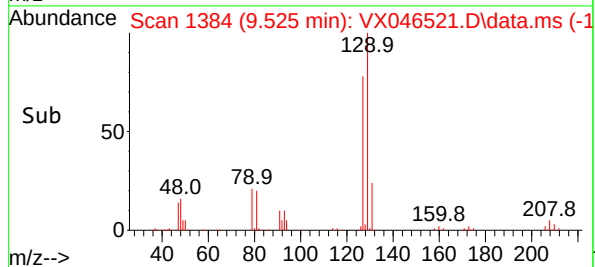
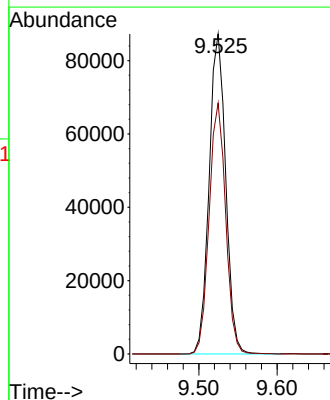
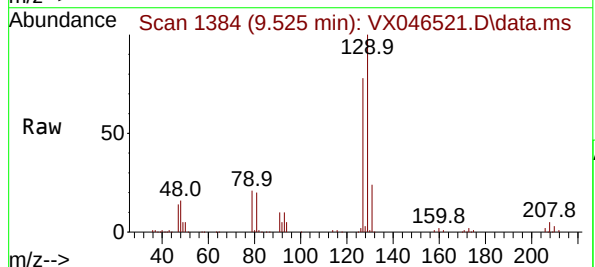
Acq: 06 Jun 2025 11:02

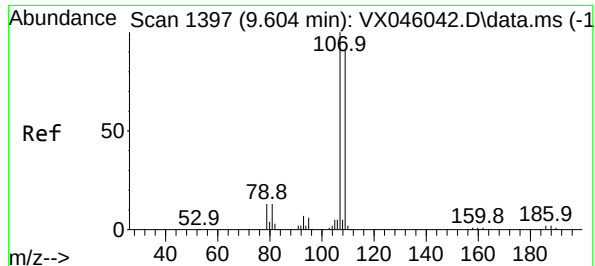
Tgt Ion:129 Resp: 128006

Ion Ratio Lower Upper

129 100

127 78.2 39.3 117.8





#61

1,2-Dibromoethane

Concen: 95.976 ug/l

RT: 9.610 min Scan# 1398

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:107 Resp: 11060

Ion Ratio Lower Upper

107 100

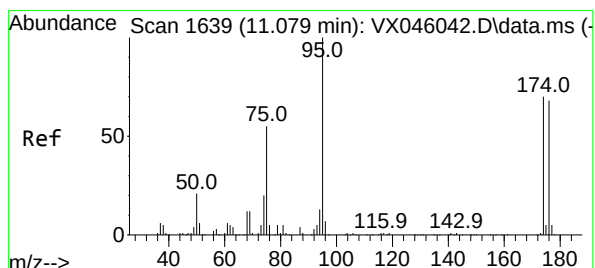
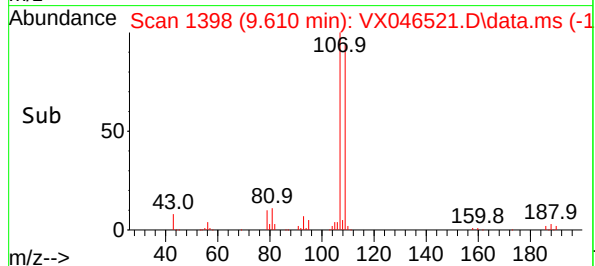
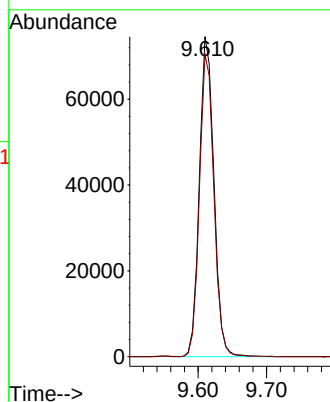
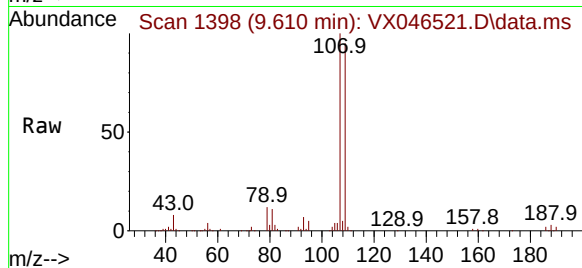
109 93.6 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 93.296 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

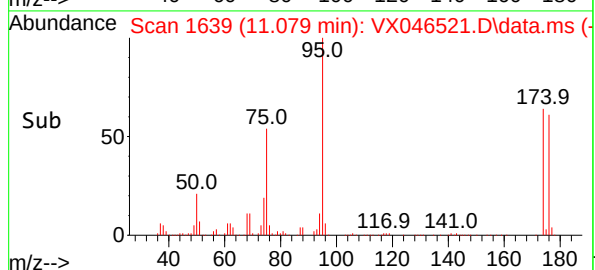
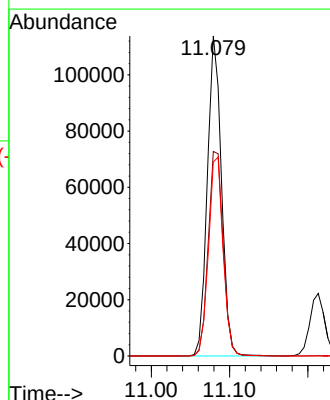
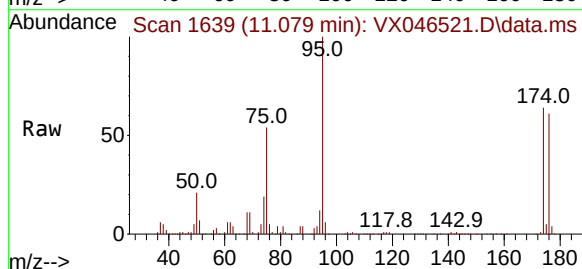
Tgt Ion: 95 Resp: 141905

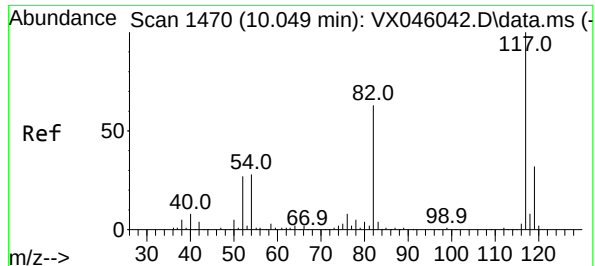
Ion Ratio Lower Upper

95 100

174 67.7 0.0 135.8

176 64.4 0.0 131.4





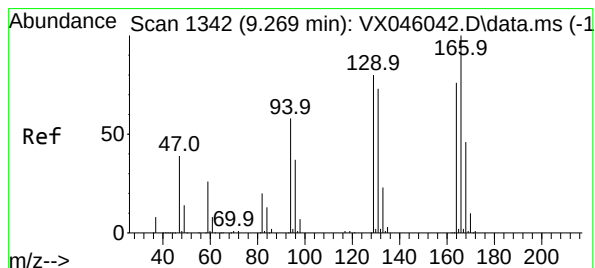
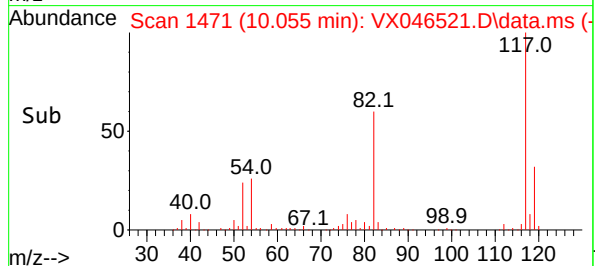
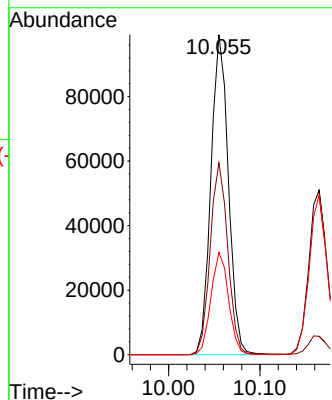
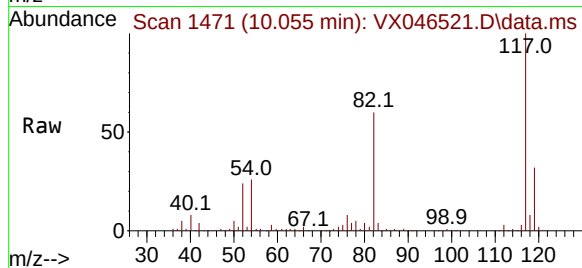
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:117 Resp: 131925
Ion Ratio Lower Upper
117 100
82 59.9 50.6 76.0
119 32.0 25.8 38.6

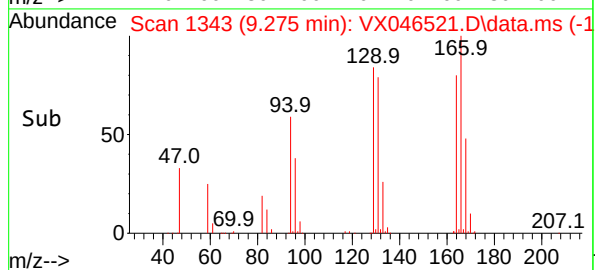
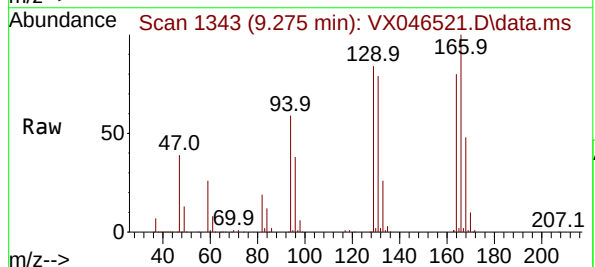
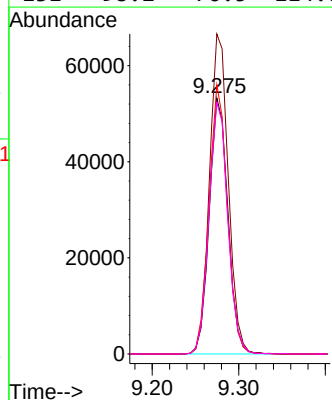
Manual Integrations
APPROVED

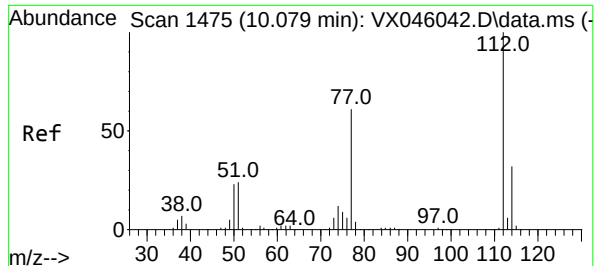
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 90.169 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

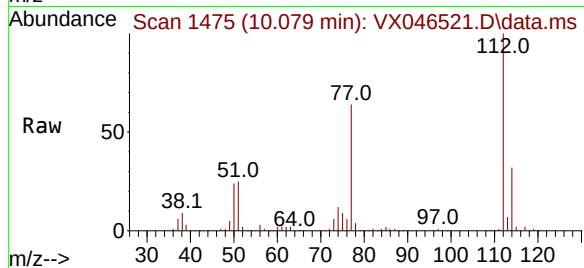
Tgt Ion:164 Resp: 79545
Ion Ratio Lower Upper
164 100
166 125.1 105.0 157.6
129 105.2 83.5 125.3
131 98.2 76.5 114.7





#65
Chlorobenzene
Concen: 93.171 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

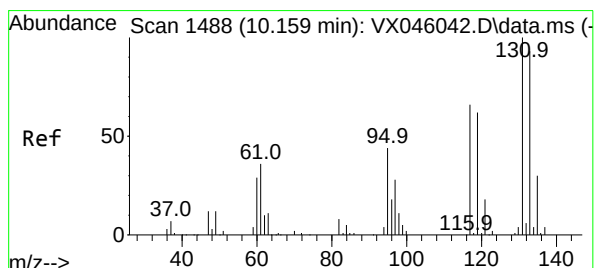
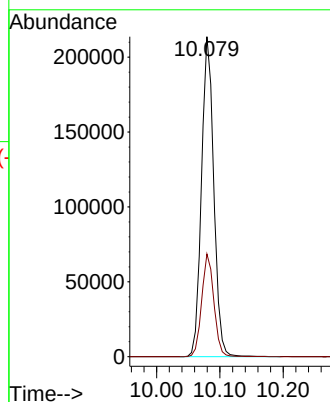
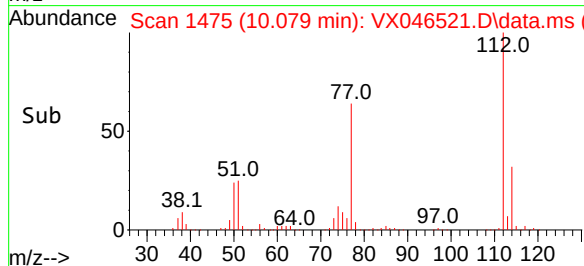
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



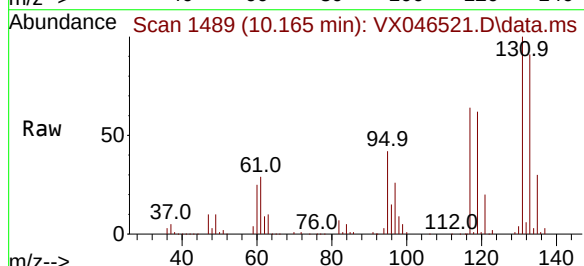
Tgt Ion:112 Resp: 289084
Ion Ratio Lower Upper
112 100
114 32.1 25.4 38.2

Manual Integrations
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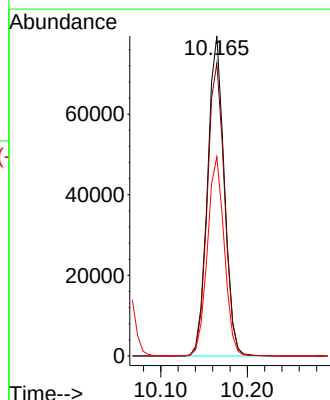
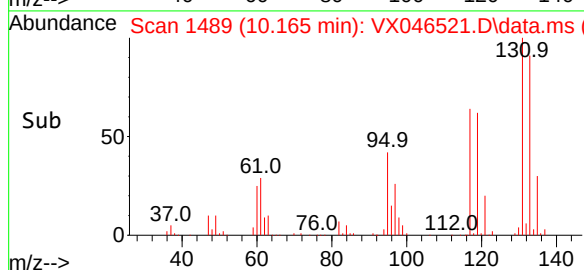
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

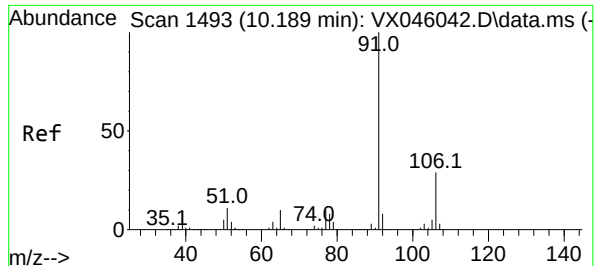


#66
1,1,1,2-Tetrachloroethane
Concen: 101.705 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



Tgt Ion:131 Resp: 106634
Ion Ratio Lower Upper
131 100
133 93.7 47.3 141.9
119 62.8 31.6 95.0





#67

Ethyl Benzene

Concen: 96.013 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 520064

Ion Ratio Lower Upper

91 100

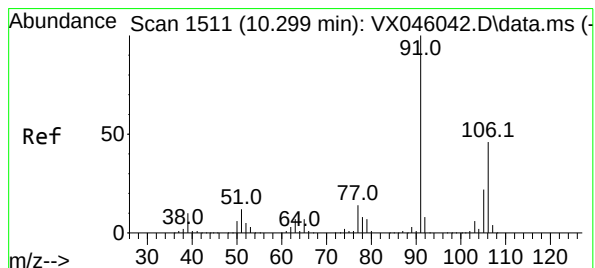
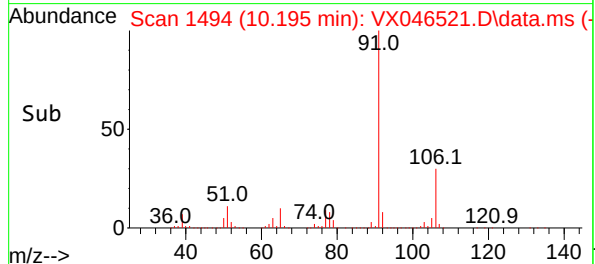
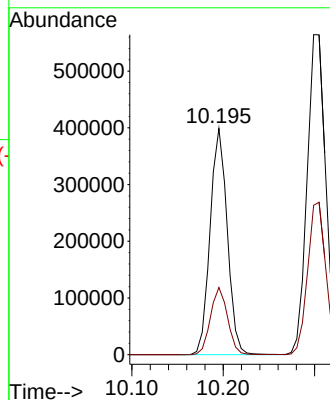
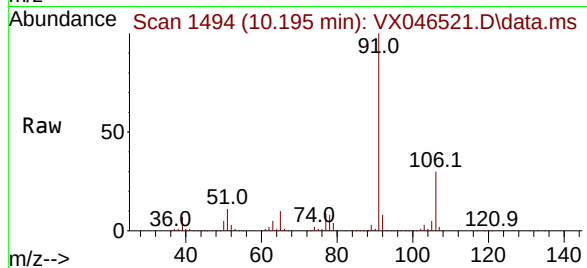
106 29.7 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 191.829 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX046521.D

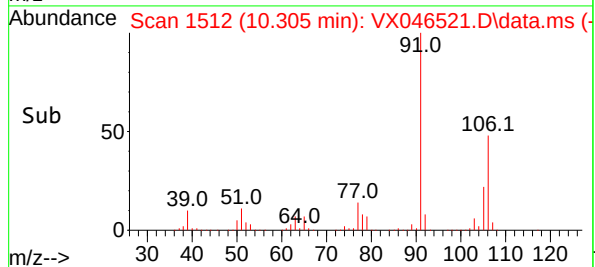
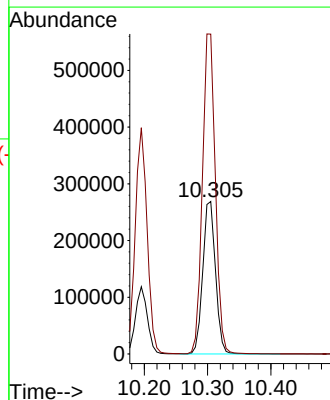
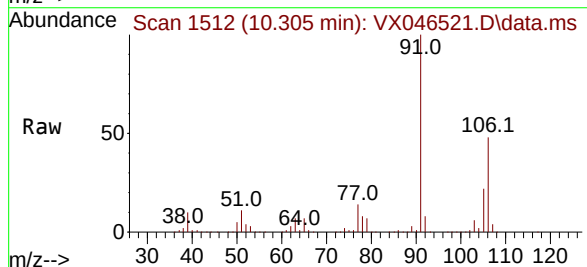
Acq: 06 Jun 2025 11:02

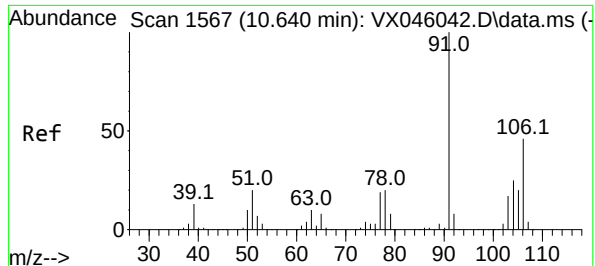
Tgt Ion:106 Resp: 376918

Ion Ratio Lower Upper

106 100

91 213.4 171.2 256.8





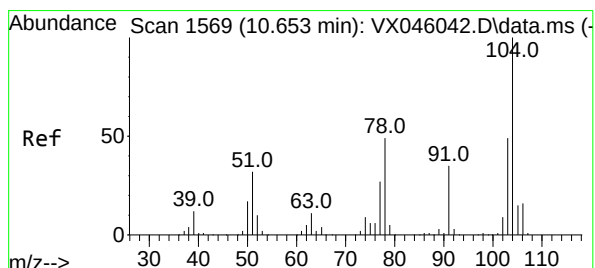
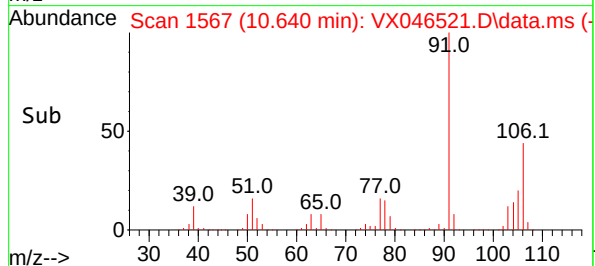
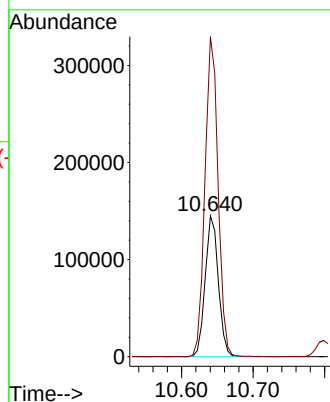
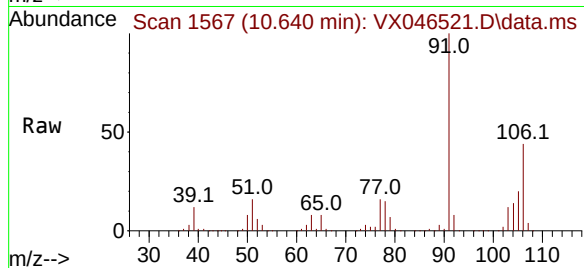
#69
o-Xylene
Concen: 97.576 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion:106 Resp: 18544
Ion Ratio Lower Upper
106 100
91 225.9 112.7 338.1

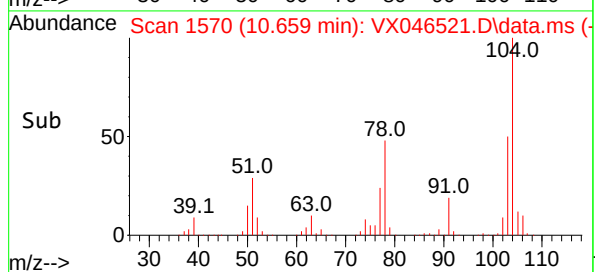
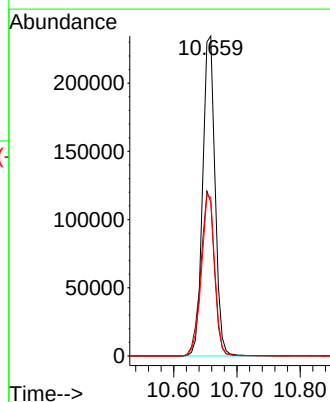
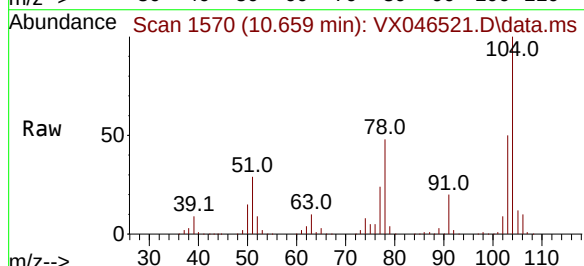
Manual Integrations
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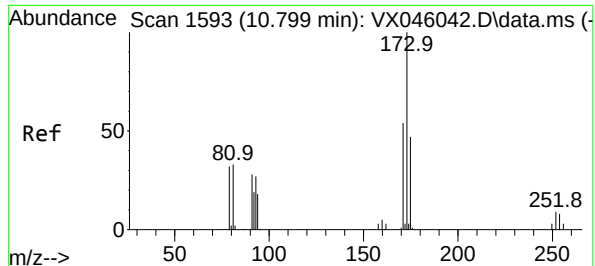
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 98.362 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

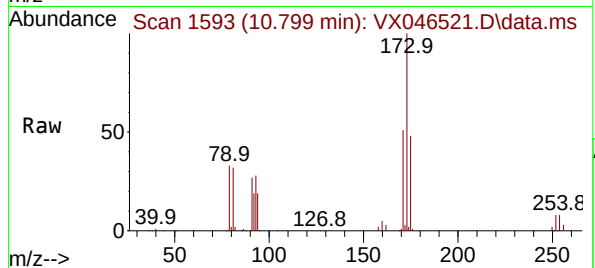
Tgt Ion:104 Resp: 319998
Ion Ratio Lower Upper
104 100
78 56.4 45.7 68.5
103 54.7 43.7 65.5





#71
Bromoform
Concen: 104.541 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

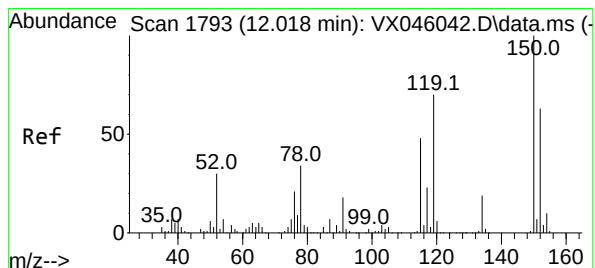
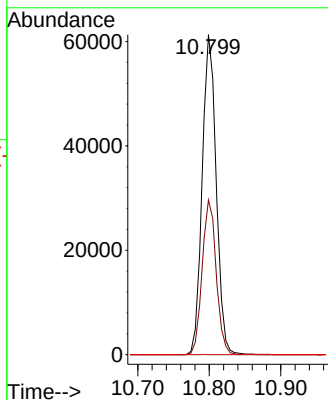
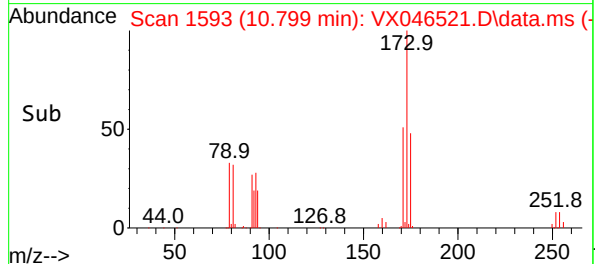
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:173 Resp: 83574
Ion Ratio Lower Upper
173 100
175 48.4 23.4 70.0
254 0.0 0.0 0.0

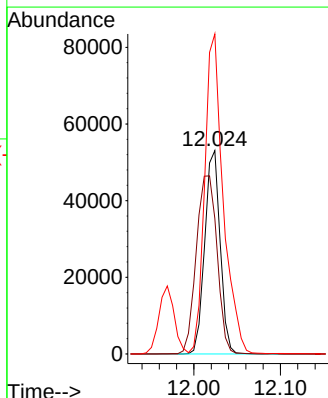
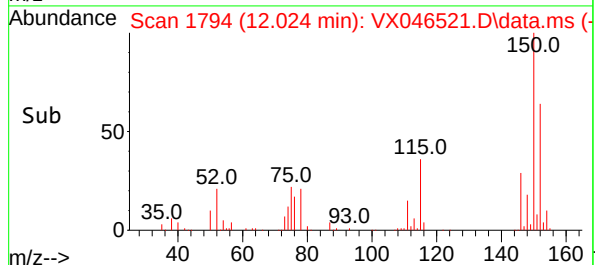
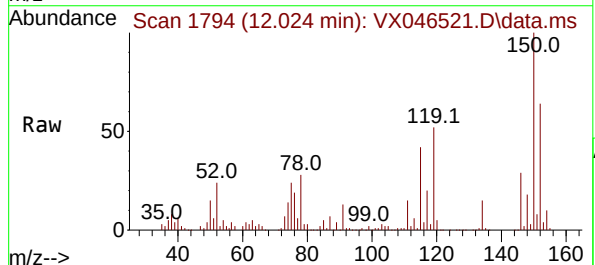
Manual Integrations
APPROVED

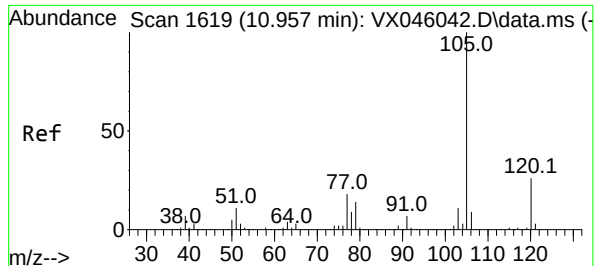
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

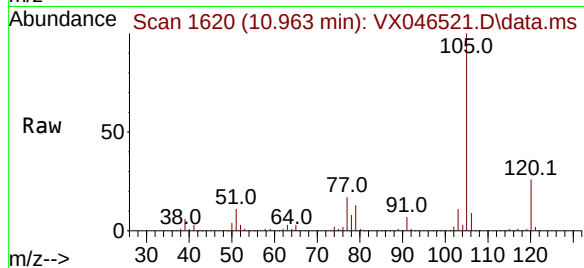
Tgt Ion:152 Resp: 65495
Ion Ratio Lower Upper
152 100
115 118.0 46.9 140.7
150 188.9 0.0 351.0





#73
Isopropylbenzene
Concen: 97.400 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

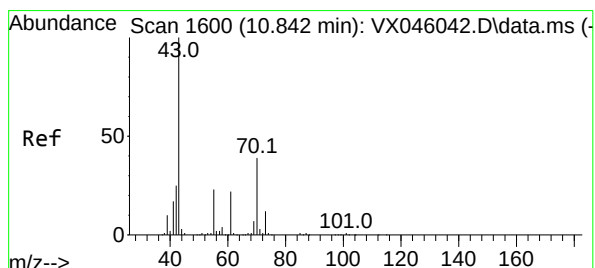
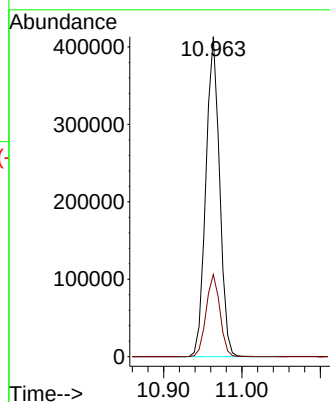
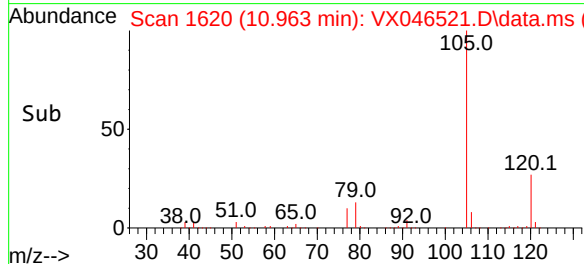
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 501468
Ion Ratio Lower Upper
105 100
120 25.8 12.8 38.4

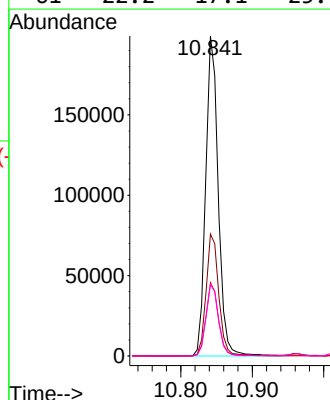
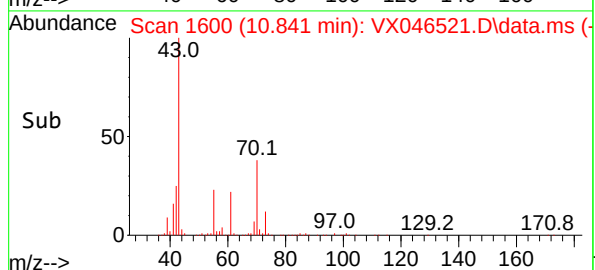
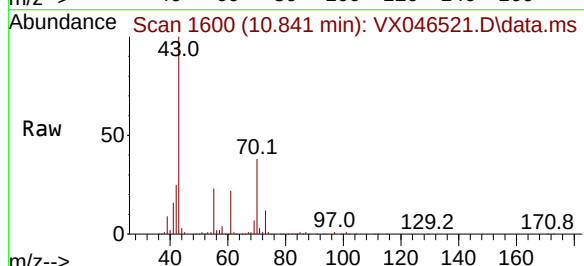
Manual Integrations
APPROVED

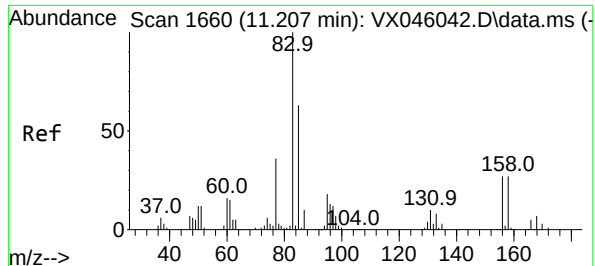
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 107.123 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

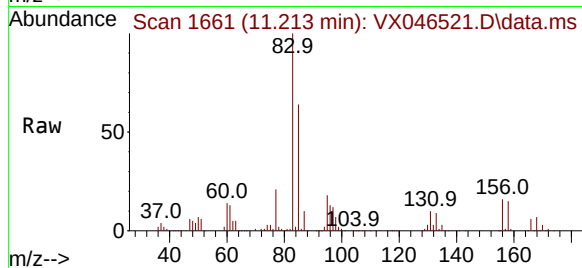
Tgt Ion: 43 Resp: 242879
Ion Ratio Lower Upper
43 100
70 38.6 30.9 46.3
55 23.1 18.7 28.1
61 22.2 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 99.288 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

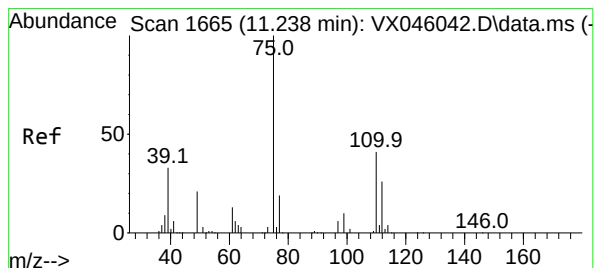
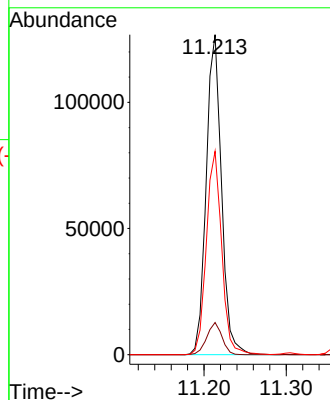
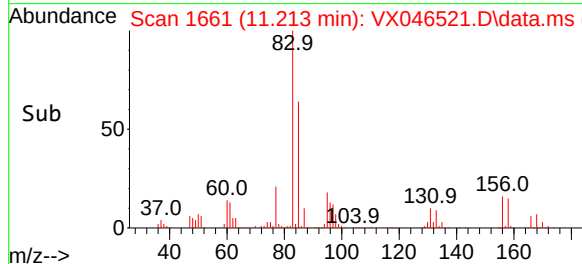
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



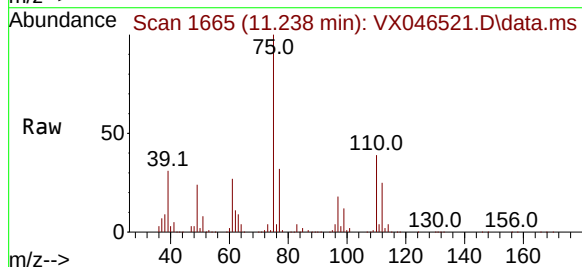
Tgt Ion: 83 Resp: 163624
Ion Ratio Lower Upper
83 100
131 10.0 5.0 14.9
85 63.9 31.9 95.7

Manual Integrations
APPROVED

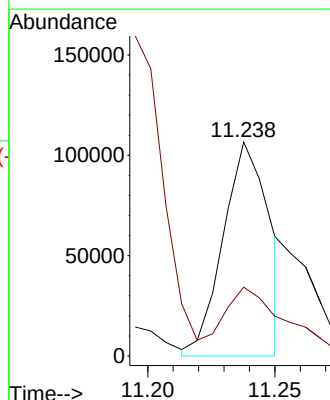
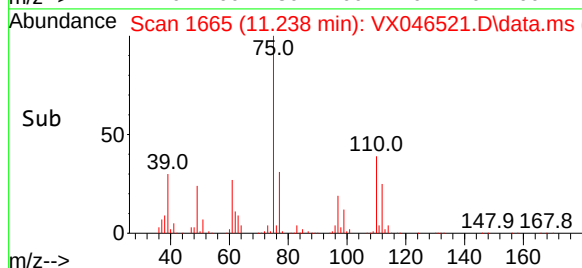
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

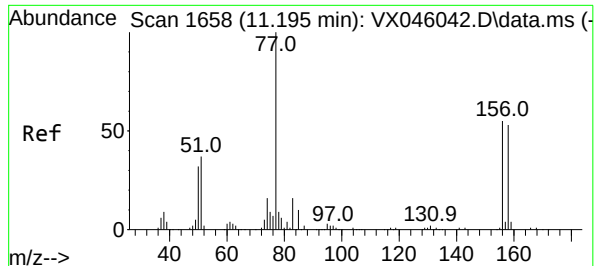


#76
1,2,3-Trichloropropane
Concen: 95.251 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



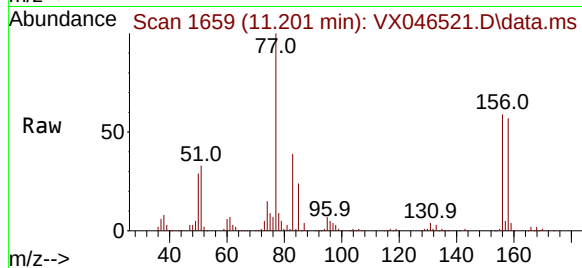
Tgt Ion: 75 Resp: 134330
Ion Ratio Lower Upper
75 100
77 44.0 20.5 61.5





#77
Bromobenzene
Concen: 96.236 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

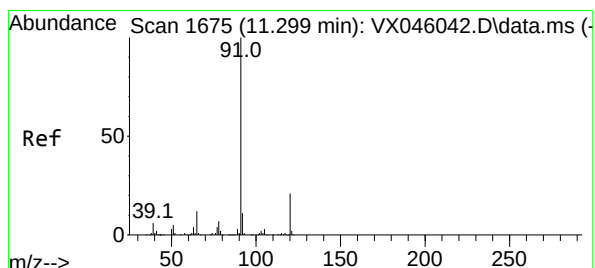
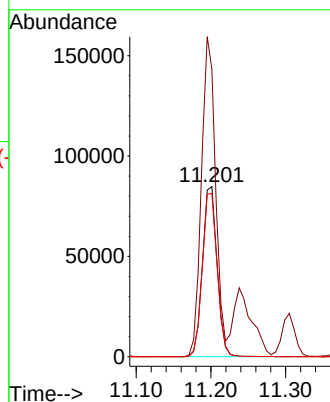
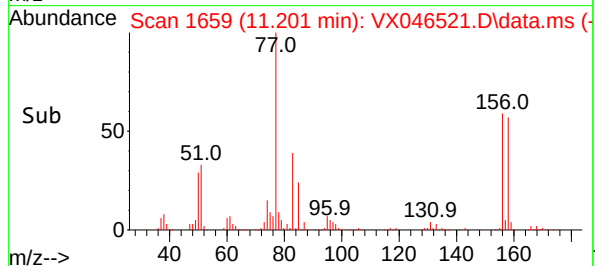
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:156 Resp: 115000
Ion Ratio Lower Upper
156 100
77 181.7 92.8 278.3
158 97.3 48.8 146.3

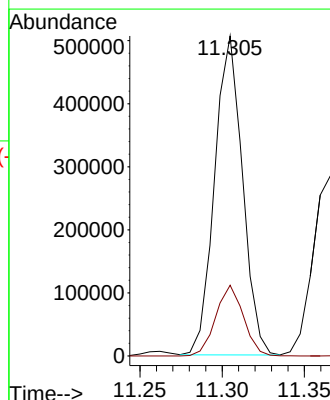
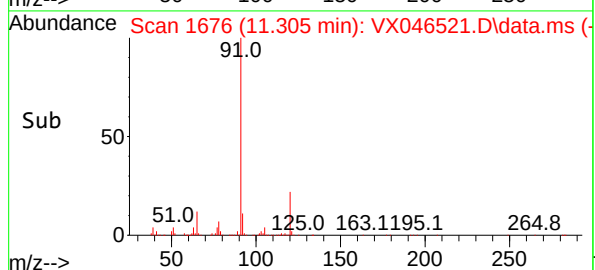
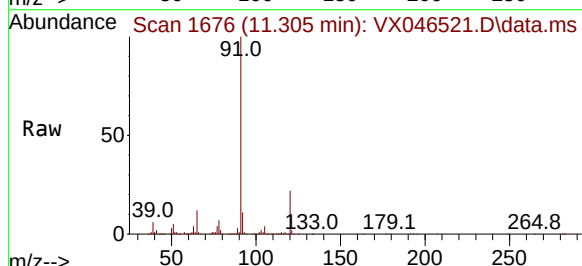
Manual Integrations
APPROVED

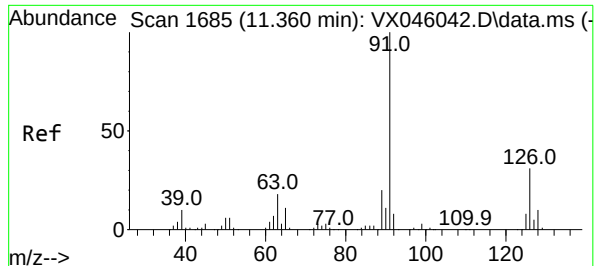
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 95.703 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 91 Resp: 596385
Ion Ratio Lower Upper
91 100
120 22.0 10.8 32.4





#79

2-Chlorotoluene

Concen: 94.839 ug/l

RT: 11.366 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion: 91 Resp: 356389

Ion Ratio Lower Upper

91 100

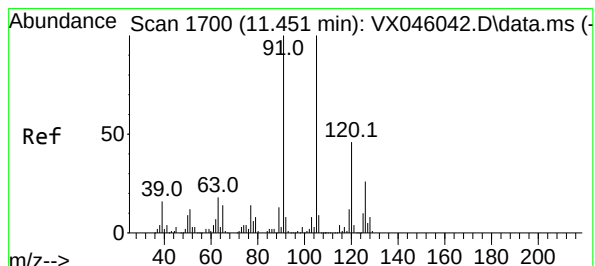
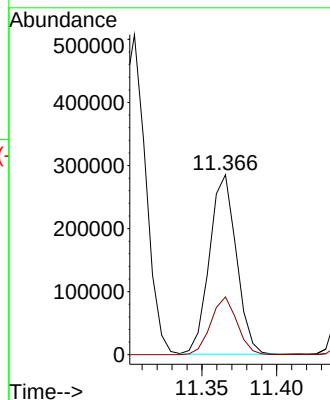
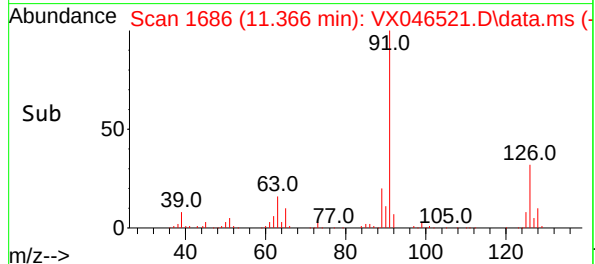
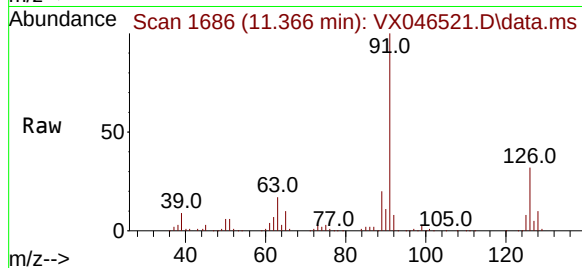
126 31.4 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 96.089 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046521.D

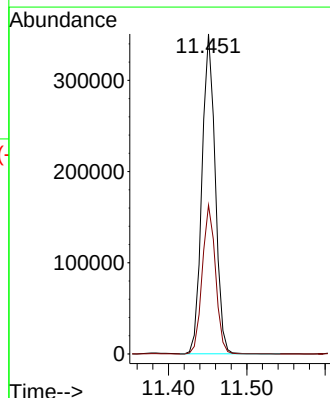
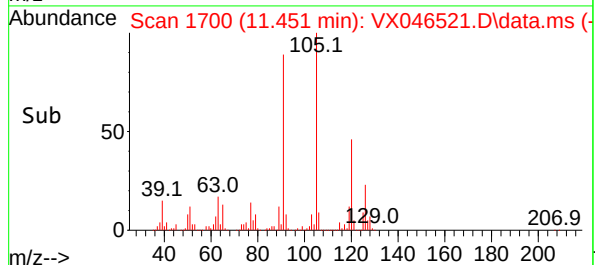
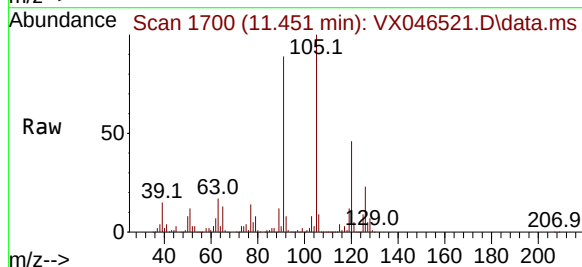
Acq: 06 Jun 2025 11:02

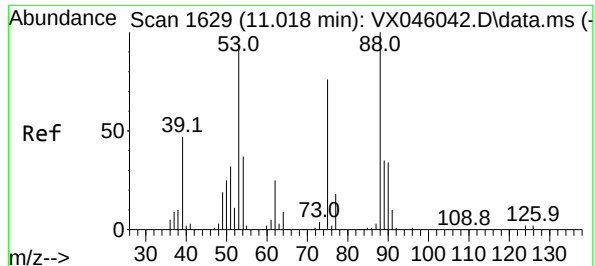
Tgt Ion:105 Resp: 412251

Ion Ratio Lower Upper

105 100

120 46.6 23.1 69.2





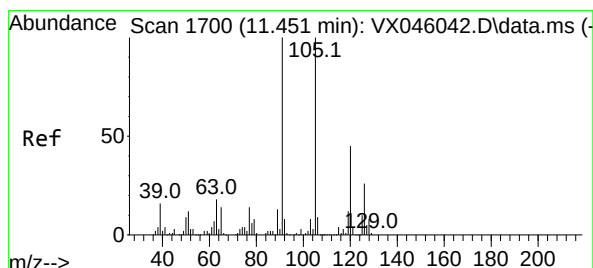
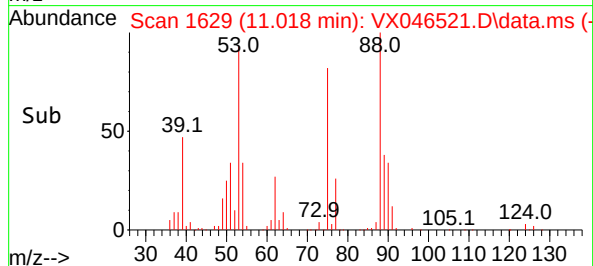
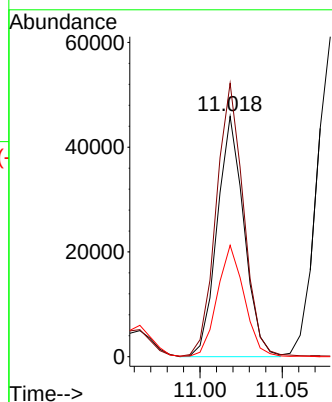
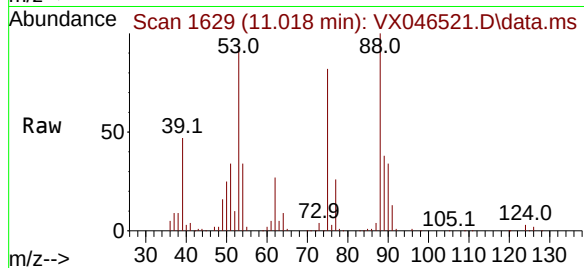
#81
trans-1,4-Dichloro-2-butene
Concen: 108.338 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100

Tgt Ion: 75 Resp: 5210
Ion Ratio Lower Upper
75 100
53 115.7 100.5 150.7
89 46.5 37.0 55.6

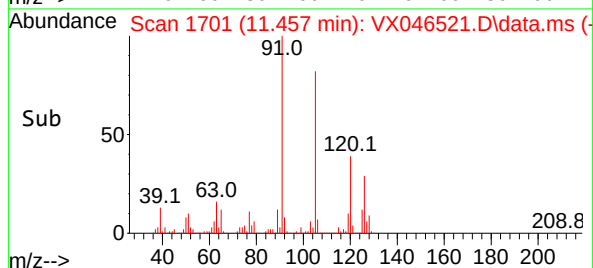
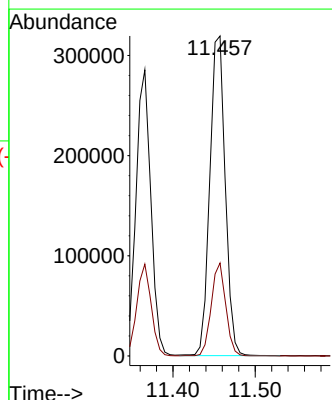
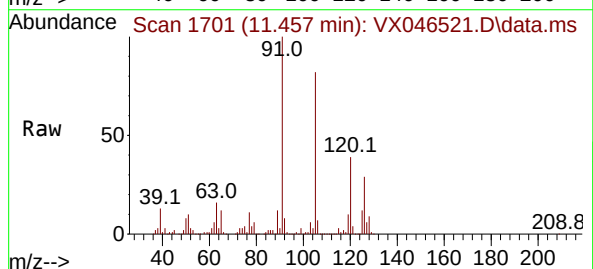
Manual Integrations
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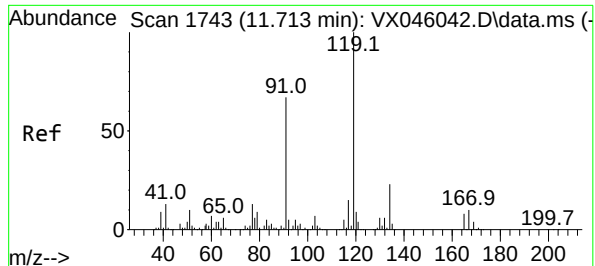
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 93.429 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 91 Resp: 416150
Ion Ratio Lower Upper
91 100
126 27.3 13.3 39.8





#83

tert-Butylbenzene

Concen: 97.420 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:119 Resp: 425478

Ion Ratio Lower Upper

119 100

91 63.6 32.9 98.7

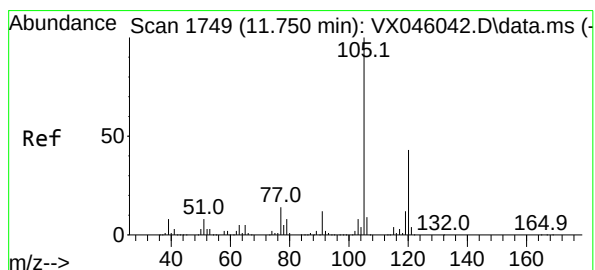
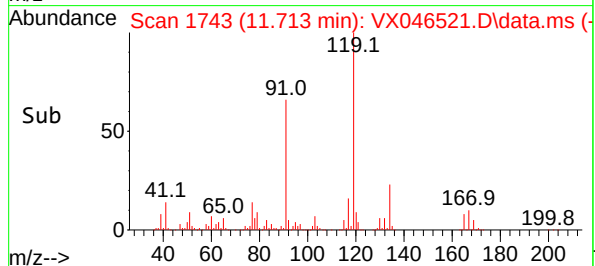
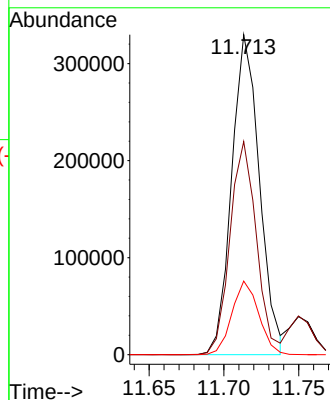
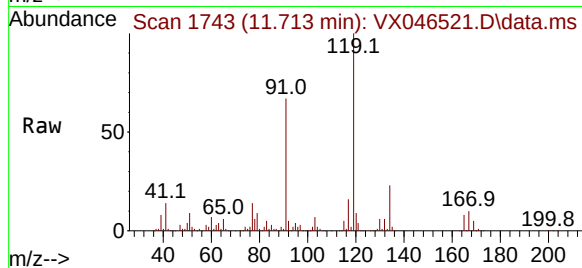
134 22.2 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 96.397 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046521.D

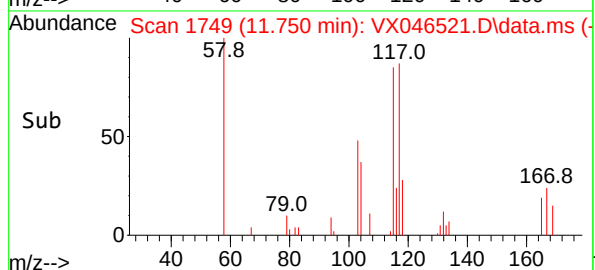
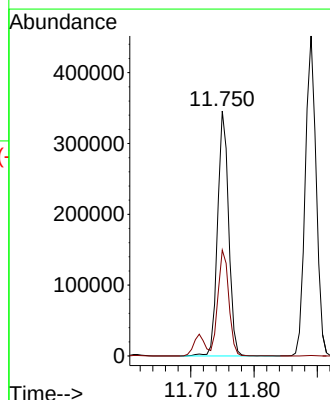
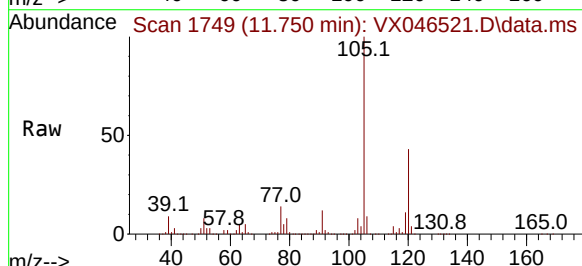
Acq: 06 Jun 2025 11:02

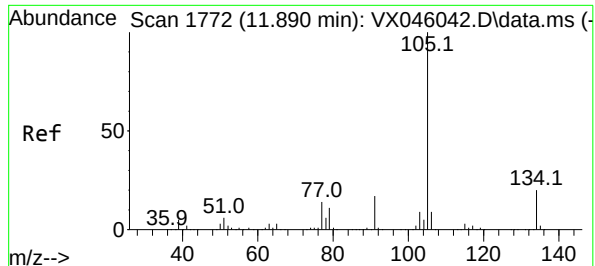
Tgt Ion:105 Resp: 418383

Ion Ratio Lower Upper

105 100

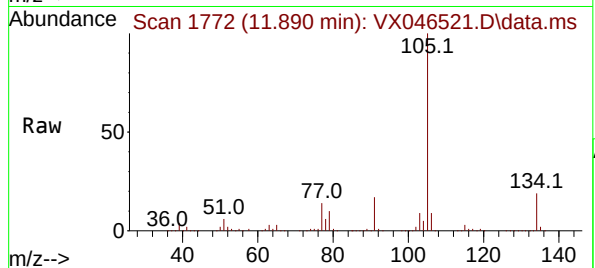
120 42.5 21.2 63.6





#85
sec-Butylbenzene
Concen: 95.599 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

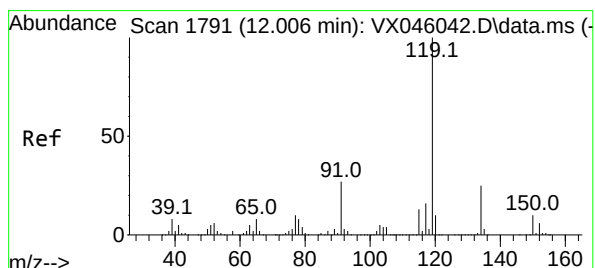
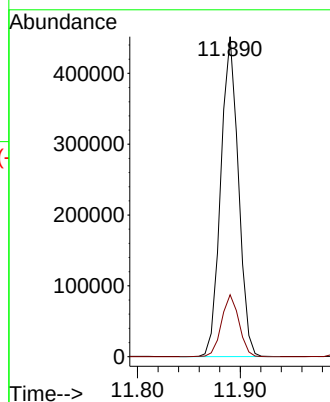
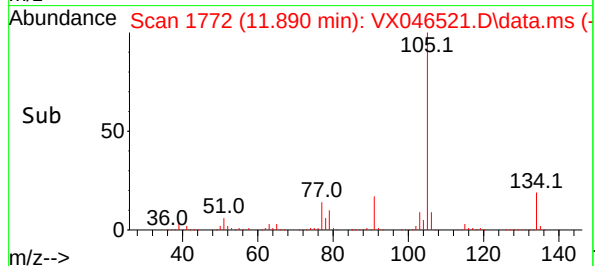
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:105 Resp: 536480
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

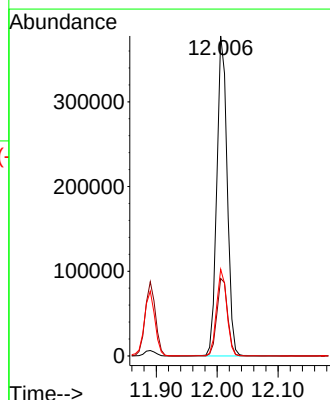
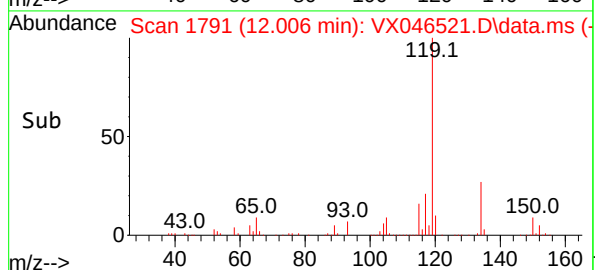
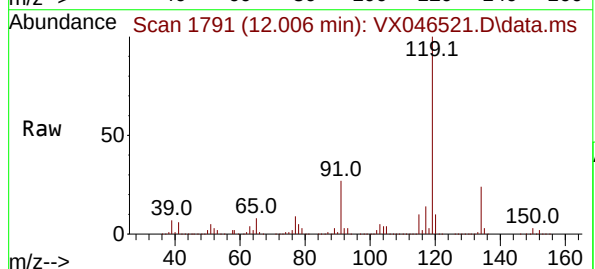
Manual Integrations
APPROVED

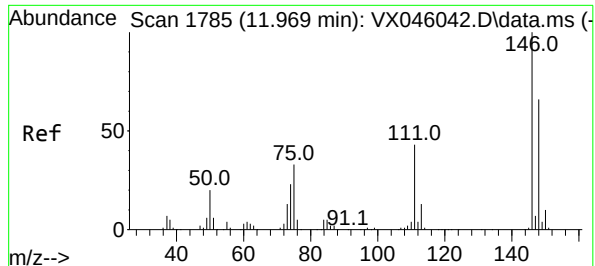
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 95.124 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion:119 Resp: 445024
Ion Ratio Lower Upper
119 100
134 25.1 12.5 37.5
91 26.8 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 92.695 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion:146 Resp: 215104

Ion Ratio Lower Upper

146 100

111 44.3 22.1 66.3

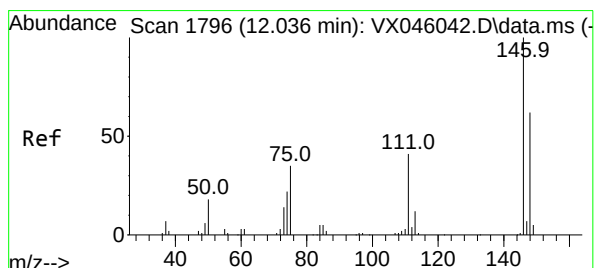
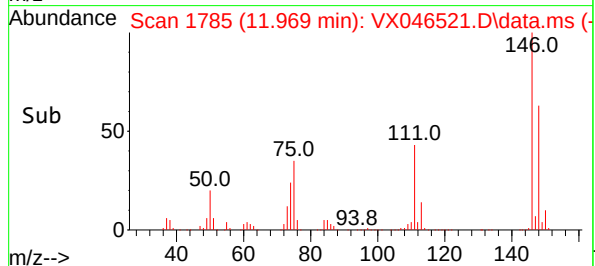
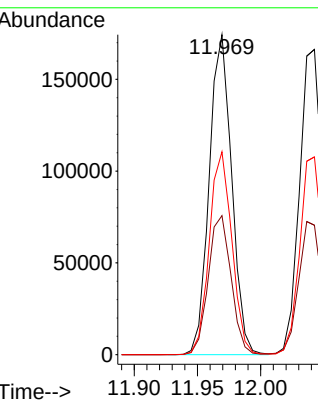
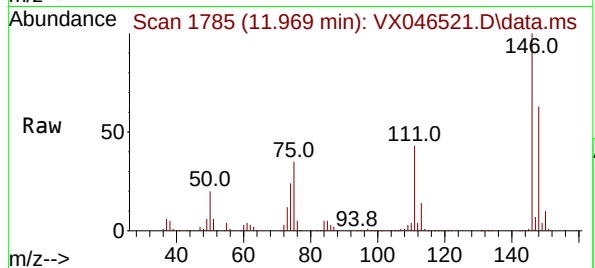
148 63.8 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 88.632 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

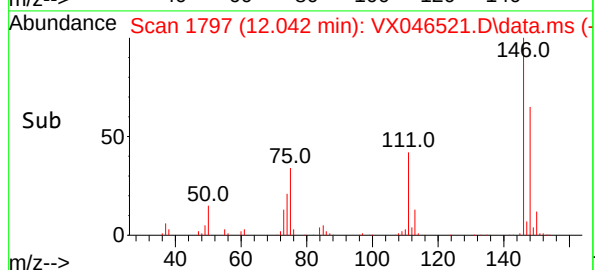
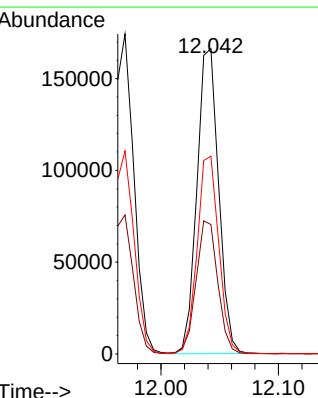
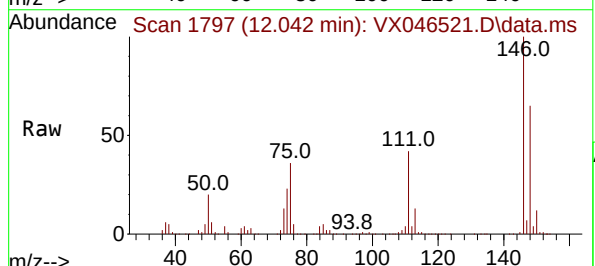
Tgt Ion:146 Resp: 213122

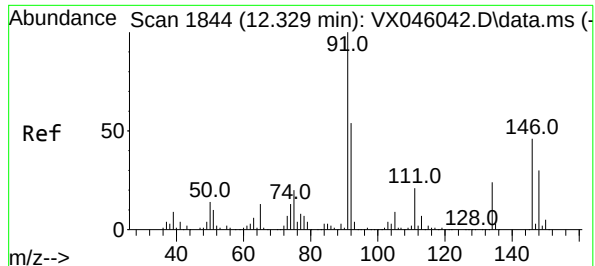
Ion Ratio Lower Upper

146 100

111 43.6 21.3 63.9

148 64.5 31.9 95.5





#89

n-Butylbenzene

Concen: 94.378 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC100

Tgt Ion: 91 Resp: 43360

Ion Ratio Lower Upper

91 100

92 54.2 26.9 80.7

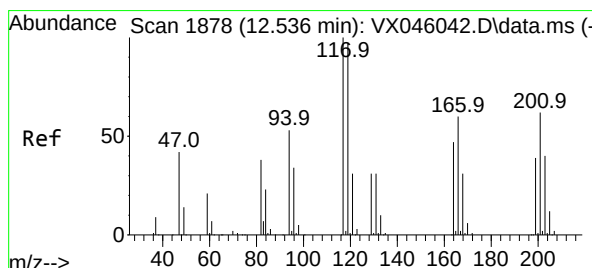
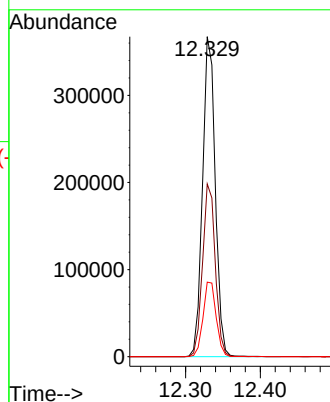
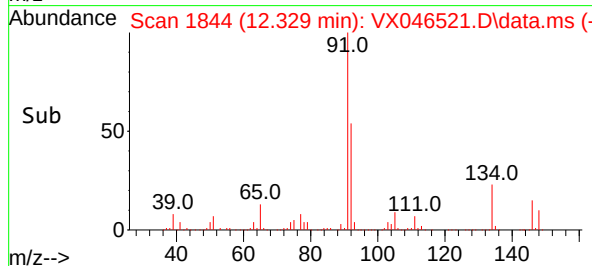
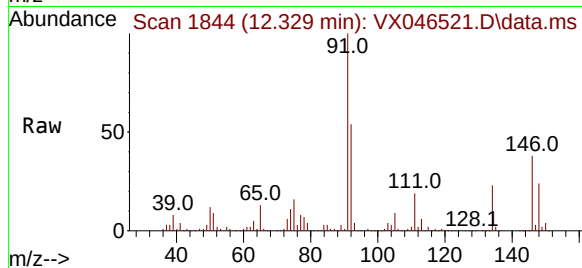
134 24.1 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 99.681 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046521.D

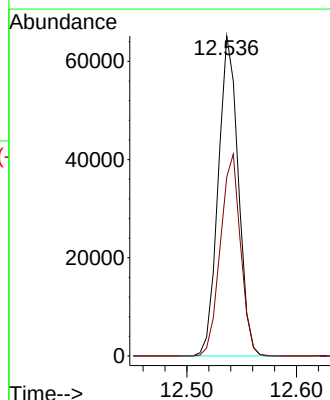
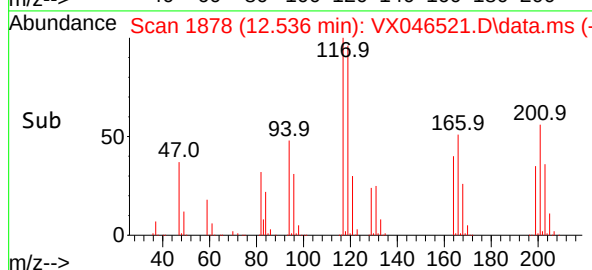
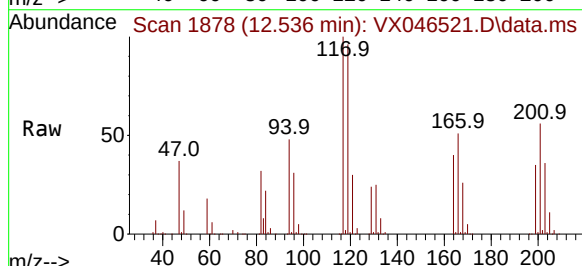
Acq: 06 Jun 2025 11:02

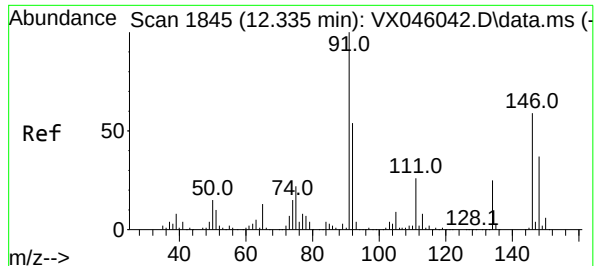
Tgt Ion:117 Resp: 82886

Ion Ratio Lower Upper

117 100

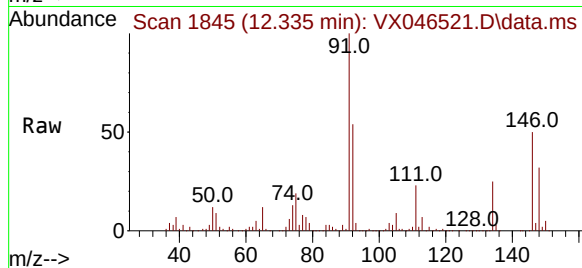
201 63.4 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 93.273 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

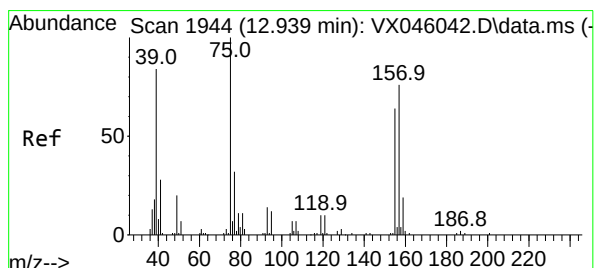
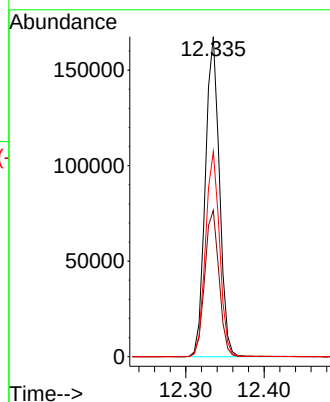
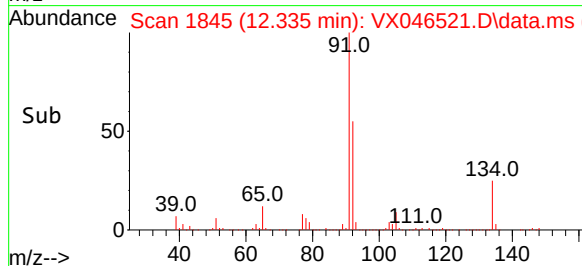
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



Tgt Ion:146 Resp: 20893
Ion Ratio Lower Upper
146 100
111 46.3 22.4 67.3
148 63.9 31.6 94.8

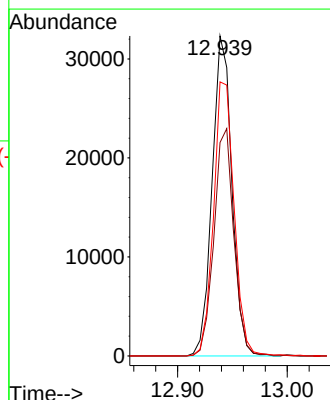
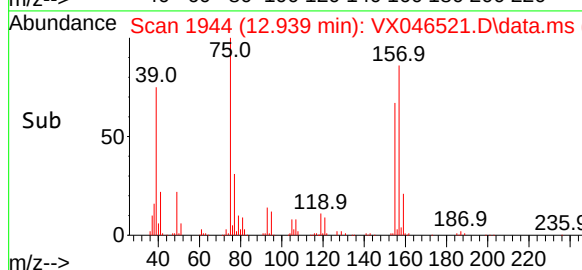
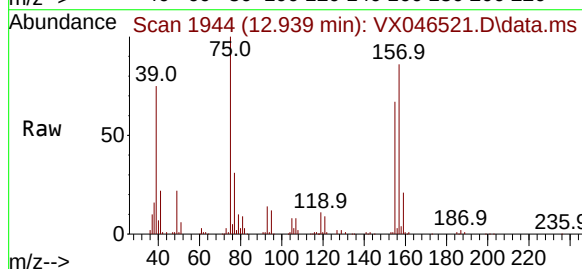
Manual Integrations
APPROVED

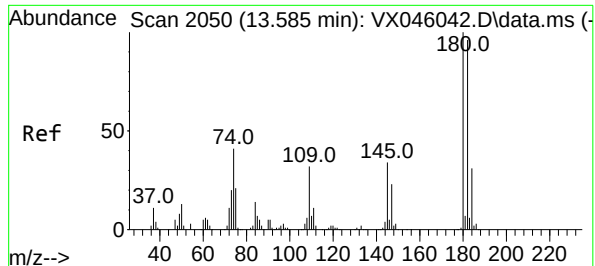
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 109.744 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

Tgt Ion: 75 Resp: 40499
Ion Ratio Lower Upper
75 100
155 71.8 34.9 104.8
157 89.4 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 93.683 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC100

Tgt Ion:180 Resp: 143150

Ion Ratio Lower Upper

180 100

182 95.6 47.9 143.8

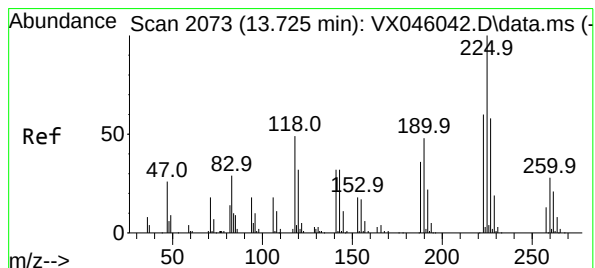
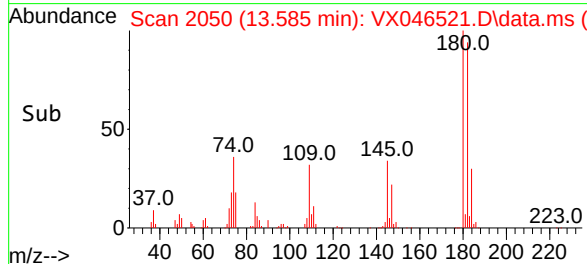
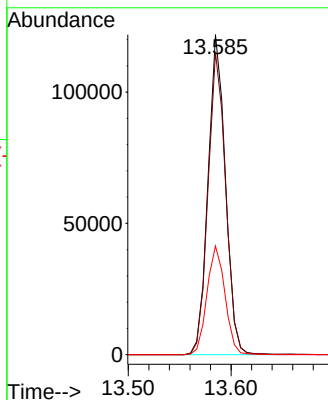
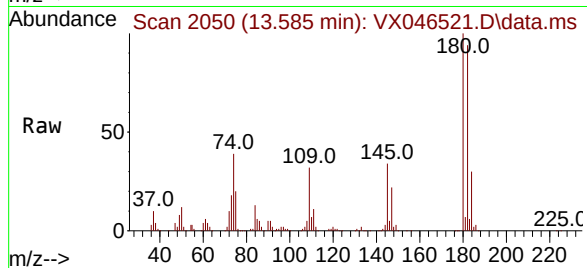
145 35.1 17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 91.723 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX046521.D

Acq: 06 Jun 2025 11:02

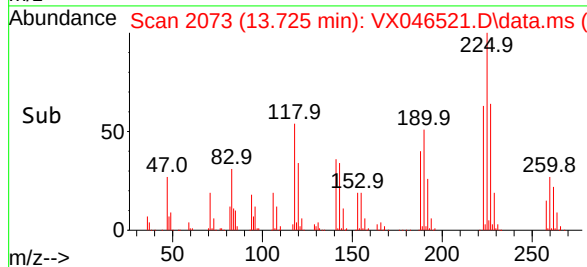
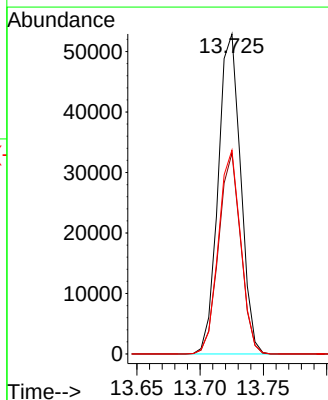
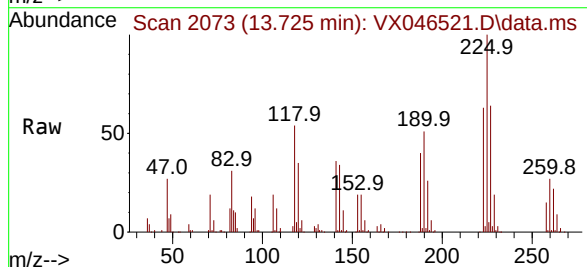
Tgt Ion:225 Resp: 65134

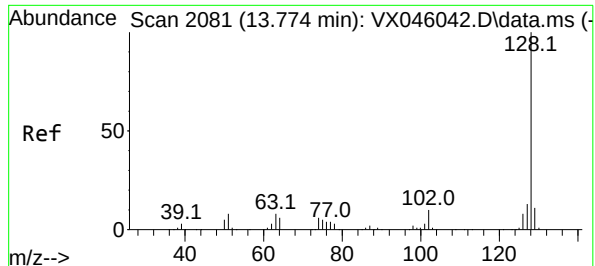
Ion Ratio Lower Upper

225 100

223 61.4 30.8 92.4

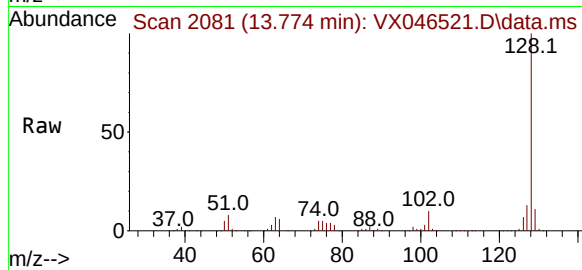
227 63.2 30.9 92.7





#95
Naphthalene
Concen: 103.144 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02

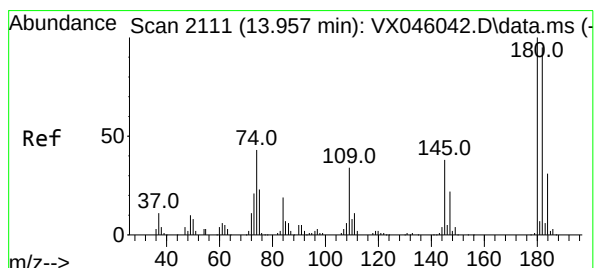
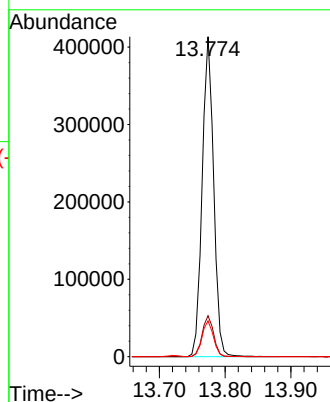
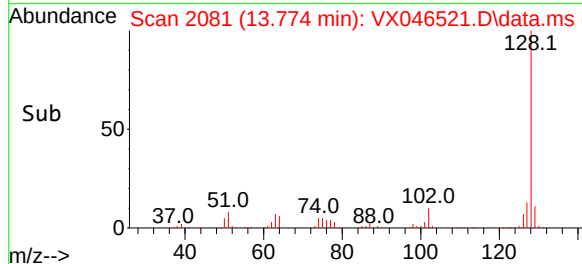
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC100



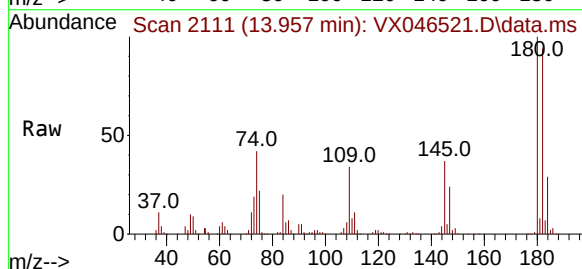
Tgt Ion:128 Resp: 499809
Ion Ratio Lower Upper
128 100
127 12.8 10.4 15.6
129 11.1 8.6 13.0

Manual Integrations
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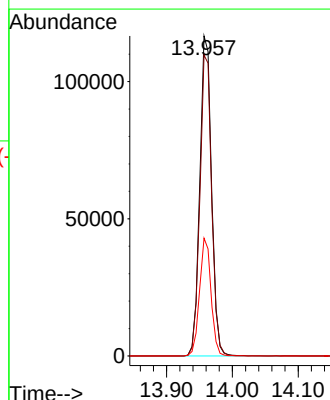
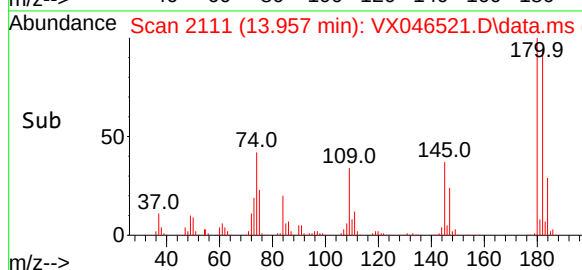
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 94.716 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX046521.D
Acq: 06 Jun 2025 11:02



Tgt Ion:180 Resp: 145123
Ion Ratio Lower Upper
180 100
182 94.3 47.8 143.3
145 36.0 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046522.D
 Acq On : 06 Jun 2025 11:25
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	78828	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	138158	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	121245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	58605	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	212938	151.835	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 303.660%#			
35) Dibromofluoromethane	5.404	113	156990	154.516	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 309.040%#			
50) Toluene-d8	8.653	98	505724	150.978	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 301.960%#			
62) 4-Bromofluorobenzene	11.079	95	207701	149.867	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 299.740%#			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.179	85	154709	141.368	ug/l	97
3) Chloromethane	1.307	50	145250	145.815	ug/l	98
4) Vinyl Chloride	1.386	62	147097	148.135	ug/l	98
5) Bromomethane	1.612	94	56077	93.023	ug/l	97
6) Chloroethane	1.691	64	88121	136.776	ug/l	98
7) Trichlorofluoromethane	1.898	101	244494	148.815	ug/l	98
8) Diethyl Ether	2.148	74	87079	150.009	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.343	101	151059	145.936	ug/l	98
10) Methyl Iodide	2.465	142	185045	164.913	ug/l	99
11) Tert butyl alcohol	2.983	59	134861	866.618	ug/l	100
12) 1,1-Dichloroethene	2.331	96	138358	147.838	ug/l	99
13) Acrolein	2.252	56	160165	778.853	ug/l	100
14) Allyl chloride	2.678	41	267359	145.460	ug/l	93
15) Acrylonitrile	3.081	53	476614	810.040	ug/l	99
16) Acetone	2.398	43	425579	763.161	ug/l	98
17) Carbon Disulfide	2.526	76	304498	152.815	ug/l	99
18) Methyl Acetate	2.721	43	292598	175.157	ug/l	98
19) Methyl tert-butyl Ether	3.130	73	533557	162.931	ug/l	99
20) Methylene Chloride	2.806	84	160400	142.563	ug/l	94
21) trans-1,2-Dichloroethene	3.111	96	140409	141.768	ug/l	98
22) Diisopropyl ether	3.782	45	574529	158.547	ug/l	# 84
23) Vinyl Acetate	3.739	43	2294131	820.000	ug/l	100
24) 1,1-Dichloroethane	3.629	63	306779	151.900	ug/l	99
25) 2-Butanone	4.574	43	643633	824.425	ug/l	99
26) 2,2-Dichloropropane	4.495	77	241718	161.222	ug/l	100
27) cis-1,2-Dichloroethene	4.507	96	181365	148.753	ug/l	98
28) Bromochloromethane	4.916	49	139177	144.483	ug/l	99
29) Tetrahydrofuran	5.019	42	404249	819.909	ug/l	99
30) Chloroform	5.111	83	319000	150.747	ug/l	96
31) Cyclohexane	5.489	56	240734	147.652	ug/l	98
32) 1,1,1-Trichloroethane	5.404	97	280921	155.193	ug/l	97
36) 1,1-Dichloropropene	5.708	75	201157	138.605	ug/l	99
37) Ethyl Acetate	4.733	43	247037	174.441	ug/l	100
38) Carbon Tetrachloride	5.696	117	240128	147.722	ug/l	100
39) Methylcyclohexane	7.391	83	243263	142.009	ug/l	96
40) Benzene	6.056	78	597704	146.294	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046522.D
 Acq On : 06 Jun 2025 11:25
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	142496	162.001	ug/l	97
42) 1,2-Dichloroethane	6.105	62	249510	146.794	ug/l	98
43) Isopropyl Acetate	6.355	43	415327	168.193	ug/l	99
44) Trichloroethene	7.135	130	146894	141.503	ug/l	98
45) 1,2-Dichloropropane	7.440	63	161815	153.441	ug/l	96
46) Dibromomethane	7.586	93	118718	149.642	ug/l	98
47) Bromodichloromethane	7.830	83	256187	157.050	ug/l	99
48) Methyl methacrylate	7.702	41	214089	168.505	ug/l	97
49) 1,4-Dioxane	7.671	88	57504	3384.526	ug/l	97
51) 4-Methyl-2-Pentanone	8.580	43	1262813	804.759	ug/l	99
52) Toluene	8.720	92	368137	146.666	ug/l	99
53) t-1,3-Dichloropropene	8.982	75	249298	170.450	ug/l	99
54) cis-1,3-Dichloropropene	8.373	75	262248	161.266	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	154220	153.049	ug/l	98
56) Ethyl methacrylate	9.122	69	261827	168.851	ug/l	97
57) 1,3-Dichloropropane	9.311	76	263879	148.186	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.251	63	676448	800.891	ug/l	100
59) 2-Hexanone	9.433	43	908142	806.953	ug/l	98
60) Dibromochloromethane	9.525	129	185185	156.239	ug/l	99
61) 1,2-Dibromoethane	9.610	107	156873	149.399	ug/l	97
64) Tetrachloroethene	9.275	164	114275	140.948	ug/l	96
65) Chlorobenzene	10.080	112	414361	145.311	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.165	131	152702	158.472	ug/l	99
67) Ethyl Benzene	10.195	91	742300	149.114	ug/l	100
68) m/p-Xylenes	10.305	106	537140	297.452	ug/l	99
69) o-Xylene	10.640	106	263508	150.865	ug/l	99
70) Styrene	10.653	104	457350	152.965	ug/l	99
71) Bromoform	10.799	173	121843	165.836	ug/l #	97
73) Isopropylbenzene	10.964	105	714594	155.114	ug/l	100
74) N-amyl acetate	10.842	43	354967	174.965	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	229605	155.706	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	191913m	152.081	ug/l	
77) Bromobenzene	11.195	156	163113	152.540	ug/l	99
78) n-propylbenzene	11.305	91	846247	151.764	ug/l	99
79) 2-Chlorotoluene	11.366	91	503830	149.837	ug/l	100
80) 1,3,5-Trimethylbenzene	11.451	105	582683	151.781	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	77638	180.416	ug/l	91
82) 4-Chlorotoluene	11.451	91	585232	146.836	ug/l	98
83) tert-Butylbenzene	11.713	119	612111	156.630	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	590035	151.929	ug/l	100
85) sec-Butylbenzene	11.890	105	761909	151.730	ug/l	100
86) p-Isopropyltoluene	12.006	119	628539	150.146	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	305990	147.362	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	308002	143.149	ug/l	99
89) n-Butylbenzene	12.329	91	613010	149.115	ug/l	99
90) Hexachloroethane	12.536	117	120040	161.336	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	298047	148.701	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	59166	179.177	ug/l	97
93) 1,2,4-Trichlorobenzene	13.585	180	209982	153.577	ug/l	99
94) Hexachlorobutadiene	13.725	225	92311	145.277	ug/l	98
95) Naphthalene	13.774	128	739300	170.506	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	210596	153.606	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046522.D
Acq On : 06 Jun 2025 11:25
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

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

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

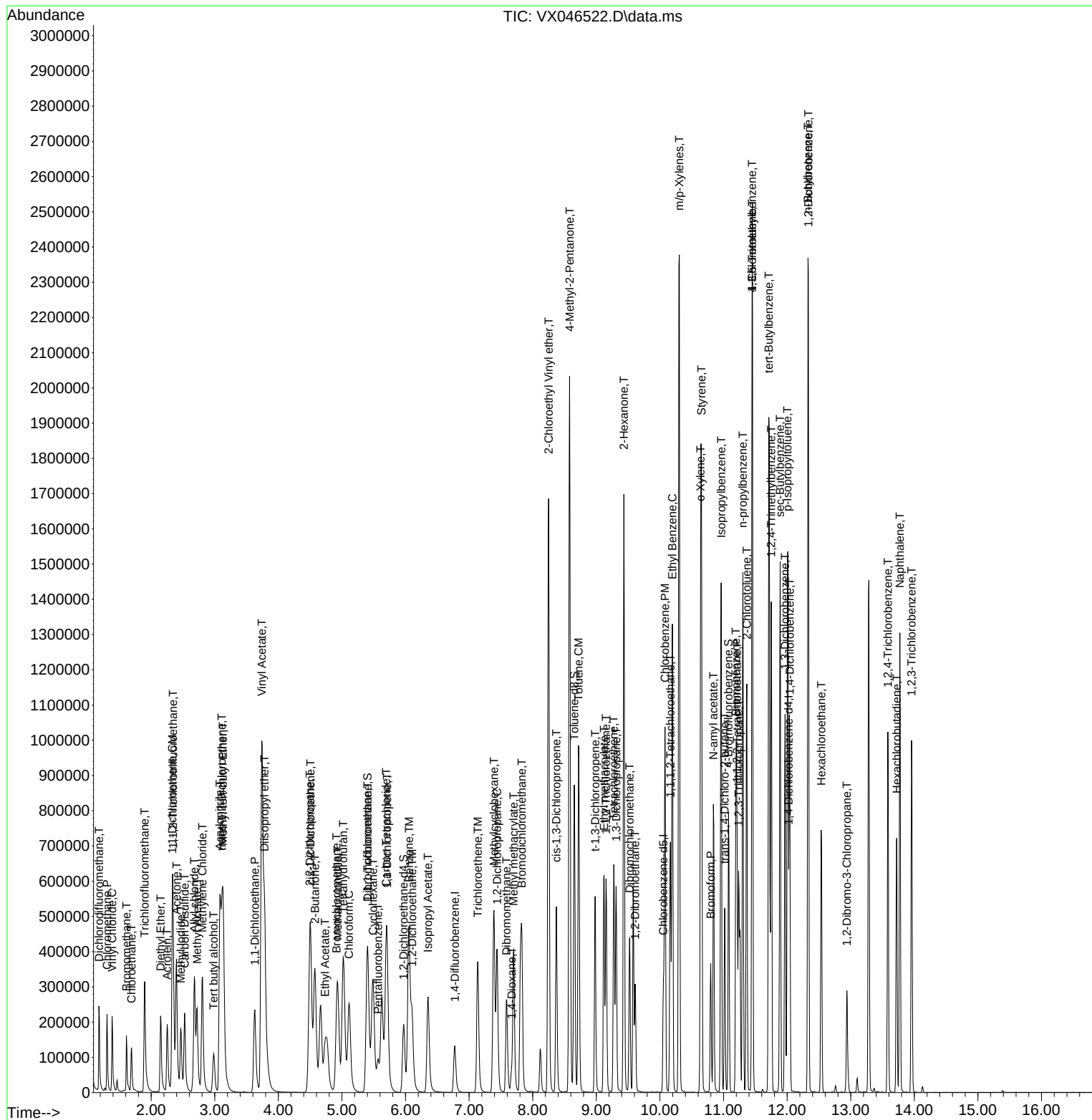
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046522.D
 Acq On : 06 Jun 2025 11:25
 Operator : JC/MD
 Sample : VSTDIC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

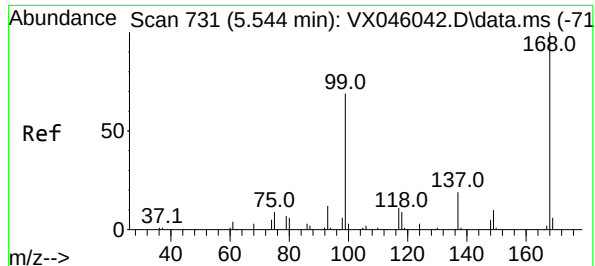
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC150

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Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:42:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration





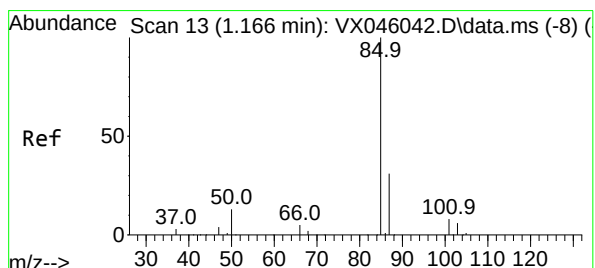
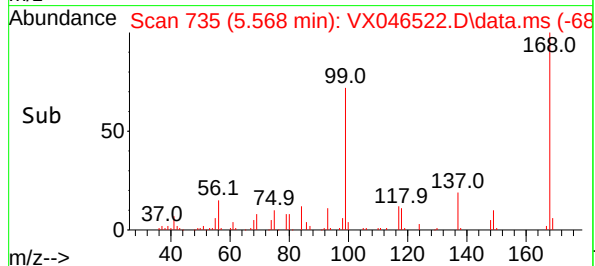
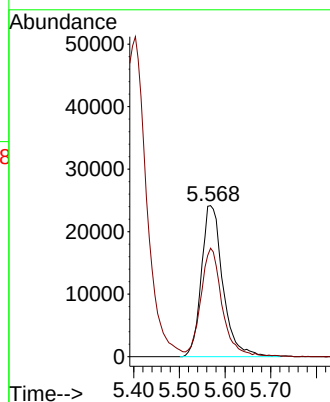
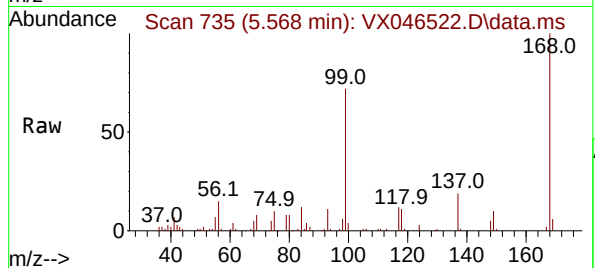
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:168 Resp: 78828
Ion Ratio Lower Upper
168 100
99 71.2 54.9 82.3

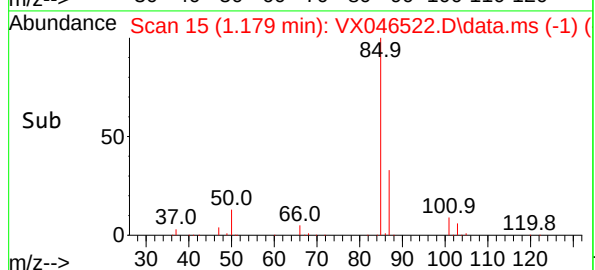
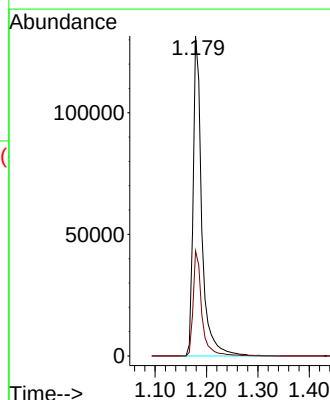
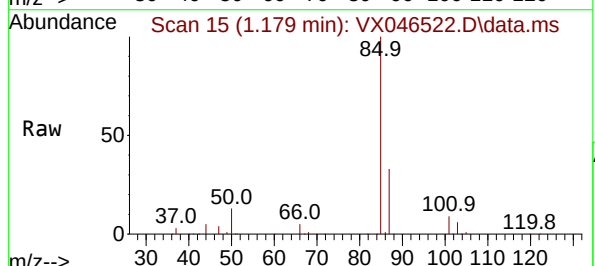
Manual Integrations
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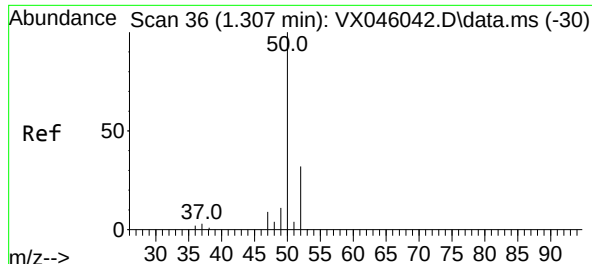
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 141.368 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 85 Resp: 154709
Ion Ratio Lower Upper
85 100
87 32.9 15.7 47.1





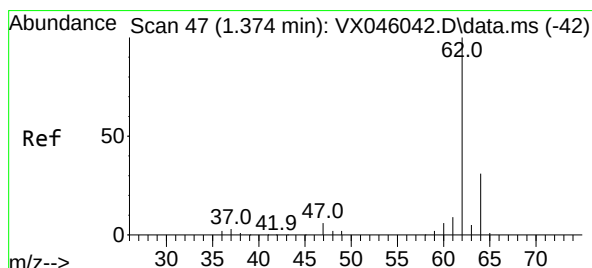
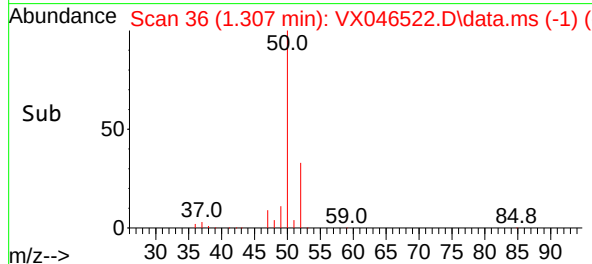
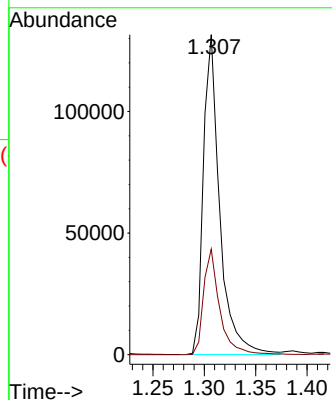
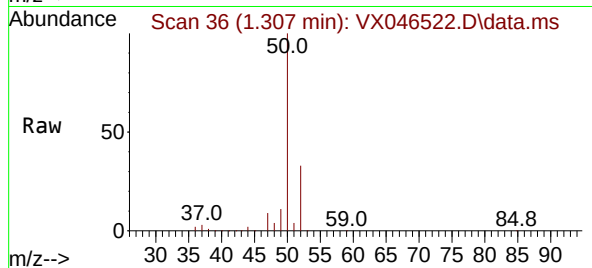
#3
Chloromethane
Concen: 145.815 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 50 Resp: 145250
Ion Ratio Lower Upper
50 100
52 33.0 25.4 38.2

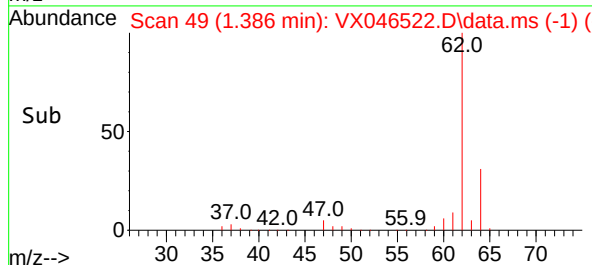
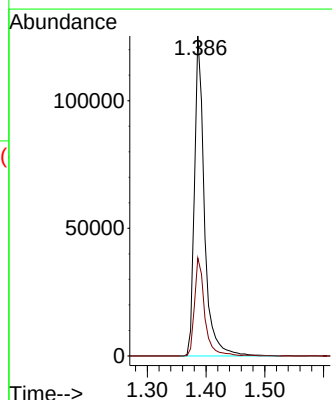
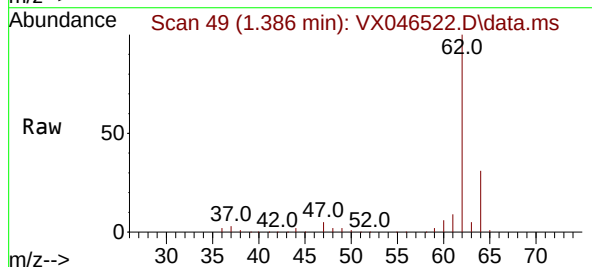
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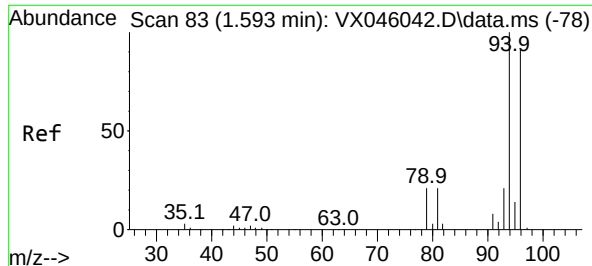
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 148.135 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 62 Resp: 147097
Ion Ratio Lower Upper
62 100
64 30.6 25.2 37.8





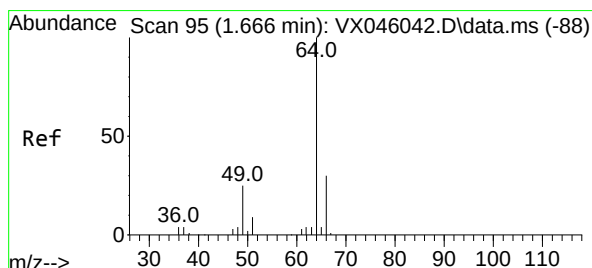
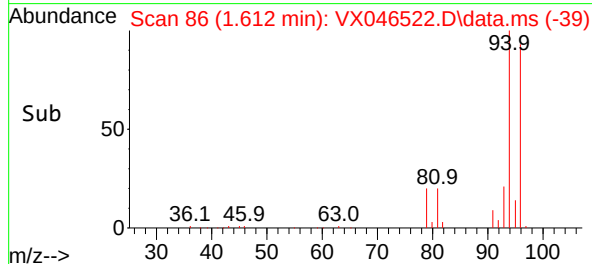
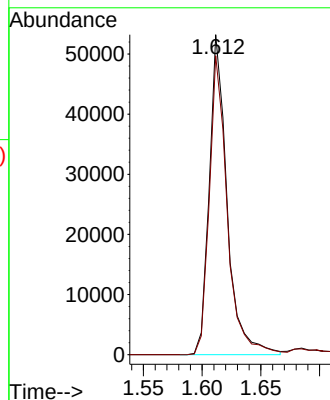
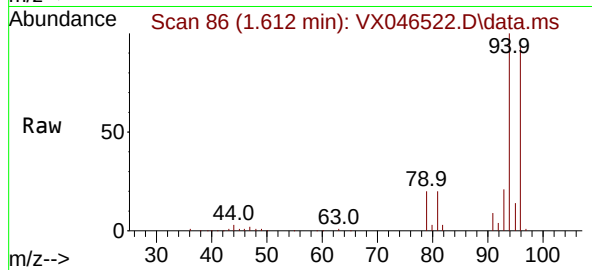
#5
Bromomethane
Concen: 93.023 ug/l
RT: 1.612 min Scan# 80
Delta R.T. -0.012 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 94 Resp: 5607
Ion Ratio Lower Upper
94 100
96 93.5 72.8 109.2

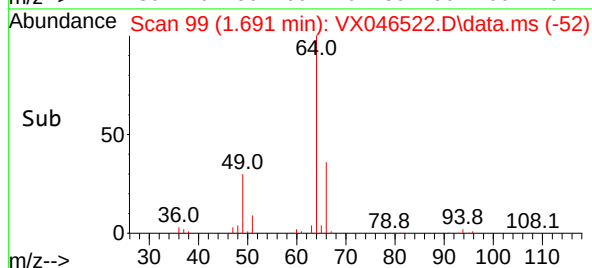
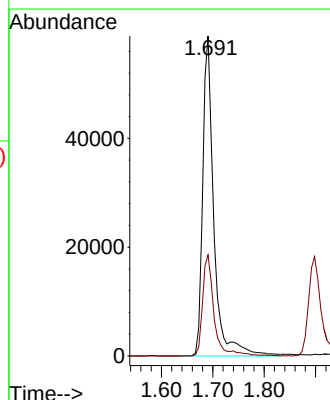
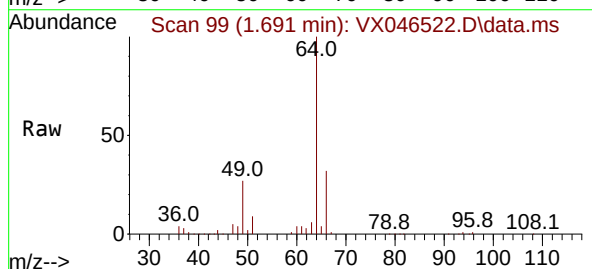
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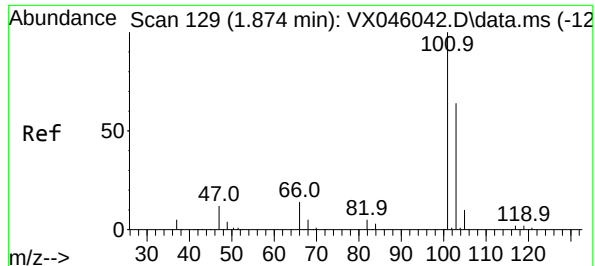
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 136.776 ug/l
RT: 1.691 min Scan# 99
Delta R.T. -0.012 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

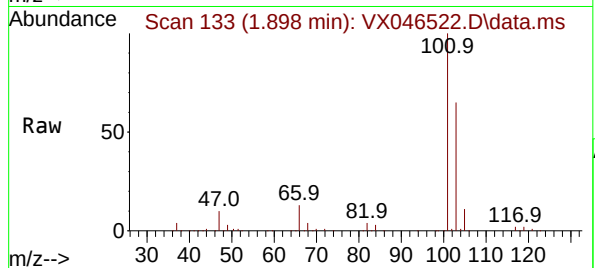
Tgt Ion: 64 Resp: 88121
Ion Ratio Lower Upper
64 100
66 31.6 24.3 36.5





#7
Trichlorofluoromethane
Concen: 148.815 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

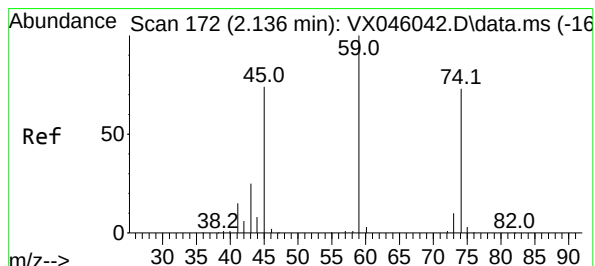
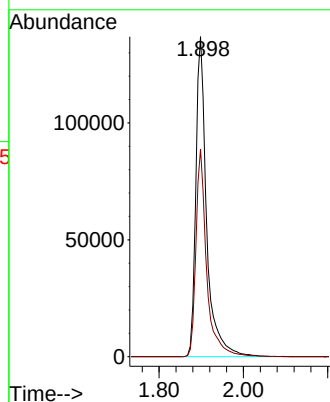
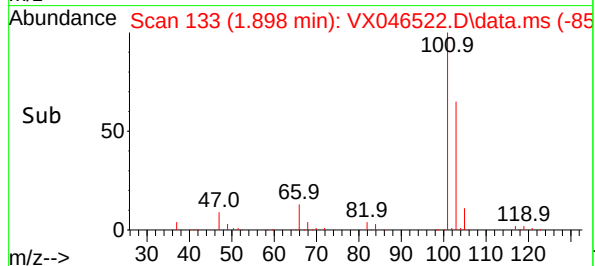
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:101 Resp: 244494
Ion Ratio Lower Upper
101 100
103 64.9 51.0 76.4

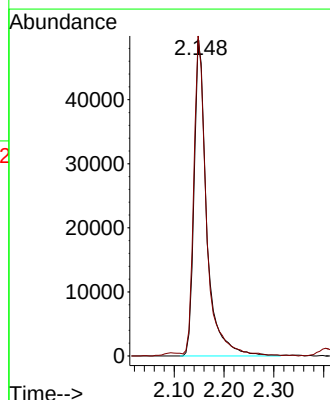
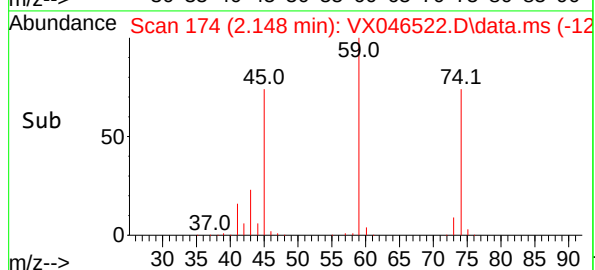
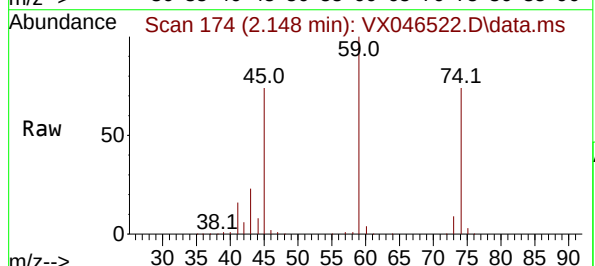
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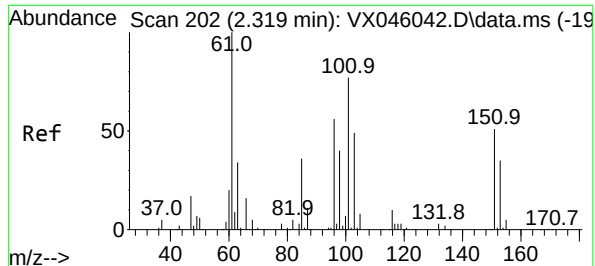
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 150.009 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 74 Resp: 87079
Ion Ratio Lower Upper
74 100
45 100.2 54.9 164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 145.936 ug/l

RT: 2.343 min Scan# 206

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:101 Resp: 151059

Ion Ratio Lower Upper

101 100

85 46.9 38.6 58.0

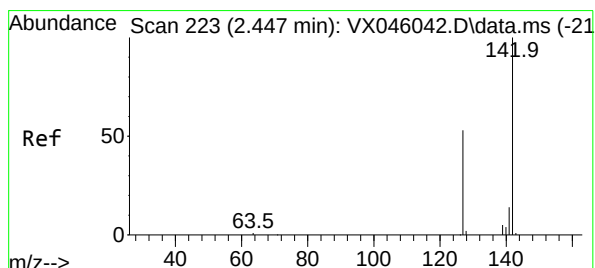
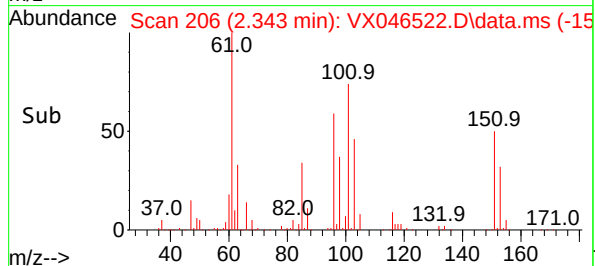
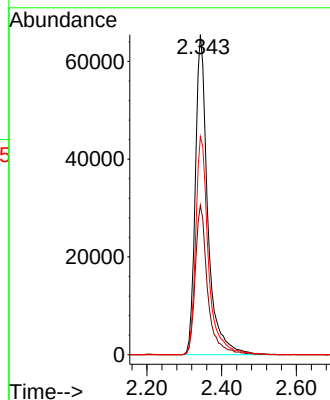
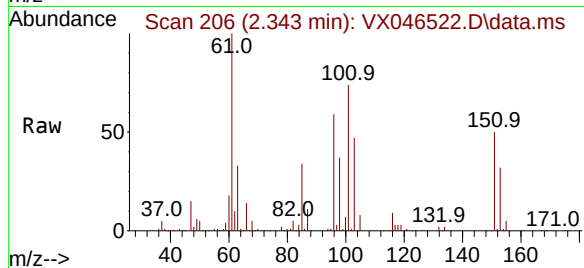
151 69.9 55.2 82.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#10

Methyl Iodide

Concen: 164.913 ug/l

RT: 2.465 min Scan# 226

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

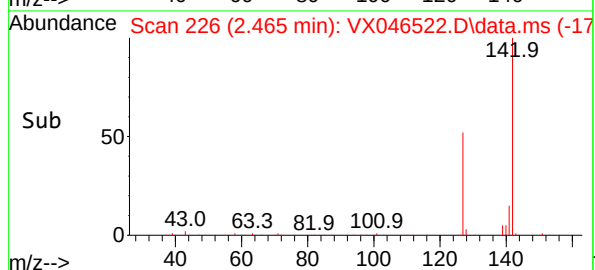
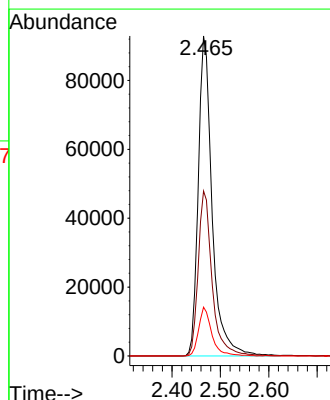
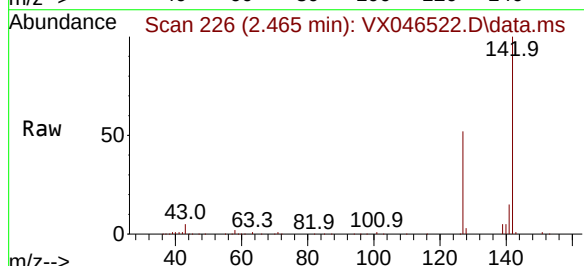
Tgt Ion:142 Resp: 185045

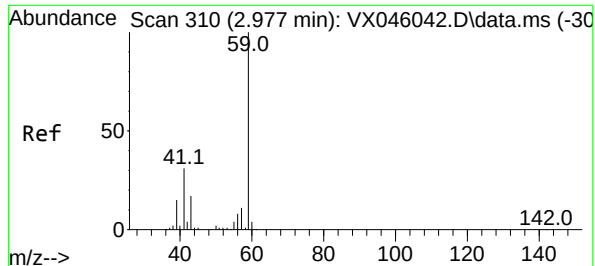
Ion Ratio Lower Upper

142 100

127 51.6 41.7 62.5

141 14.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 866.618 ug/l

RT: 2.983 min Scan# 310

Delta R.T. 0.012 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 59 Resp: 13486

Ion Ratio Lower Upper

59 100

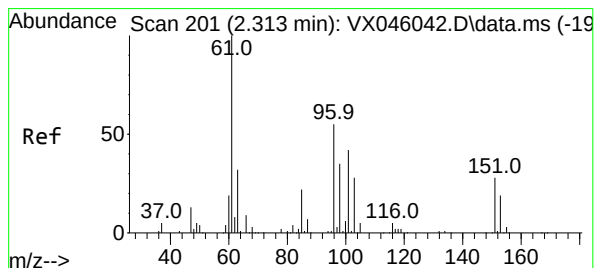
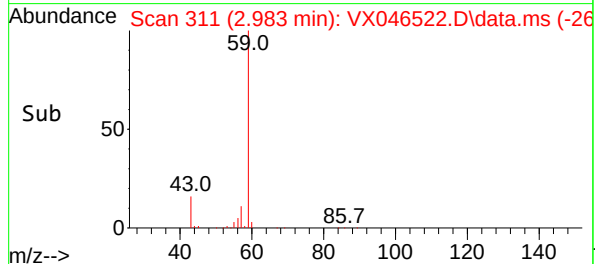
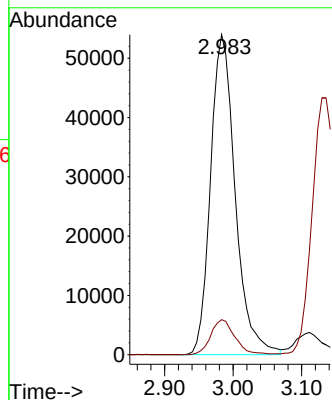
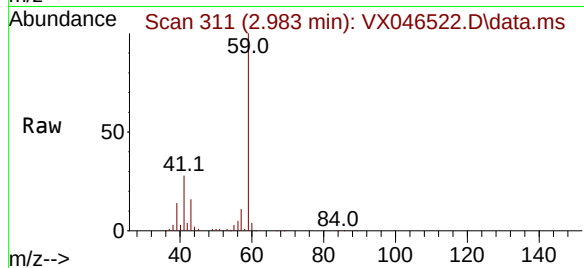
57 10.7 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 147.838 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

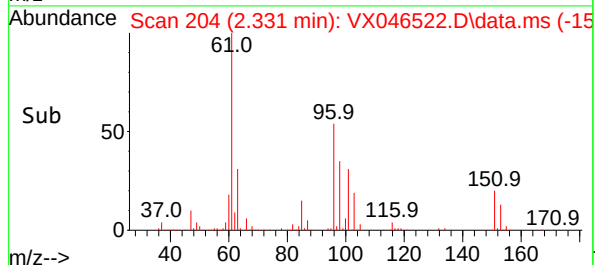
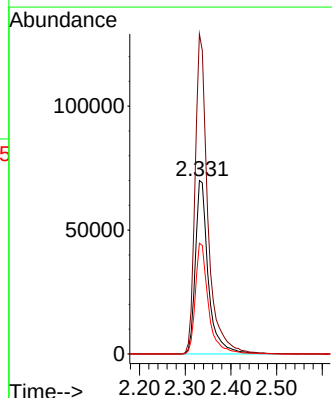
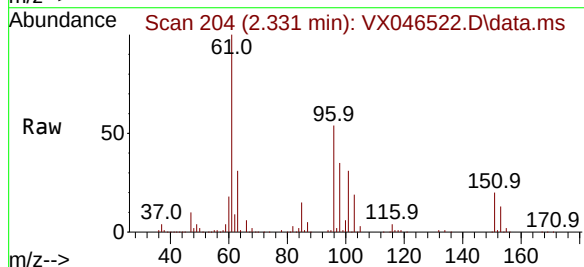
Tgt Ion: 96 Resp: 138358

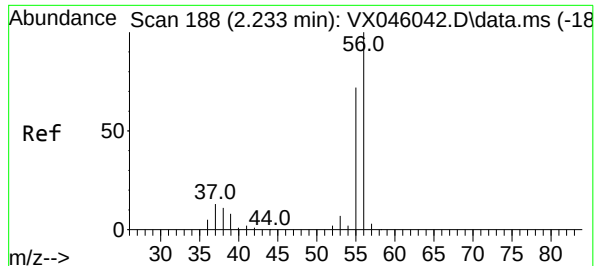
Ion Ratio Lower Upper

96 100

61 184.5 146.2 219.2

98 63.9 51.0 76.6





#13

Acrolein

Concen: 778.853 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.001 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 56 Resp: 16016

Ion Ratio Lower Upper

56 100

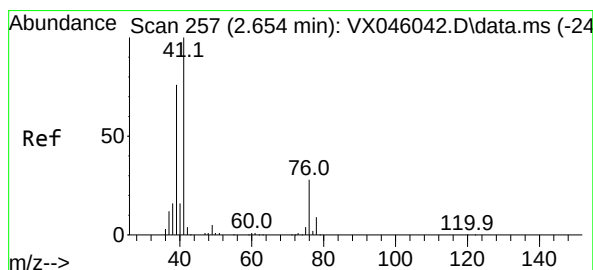
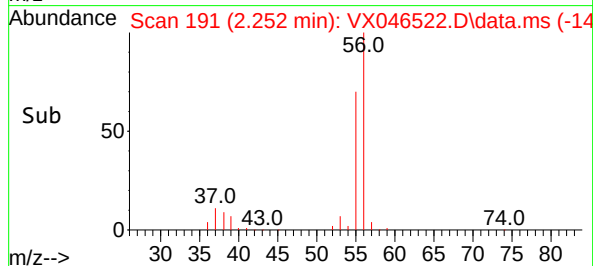
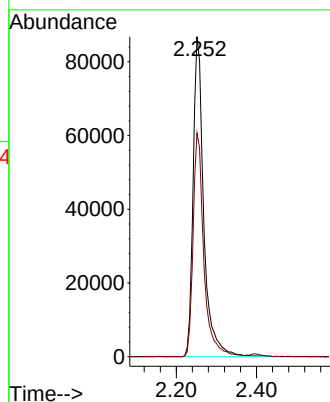
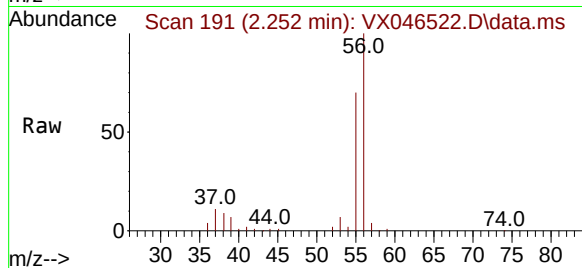
55 70.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 145.460 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

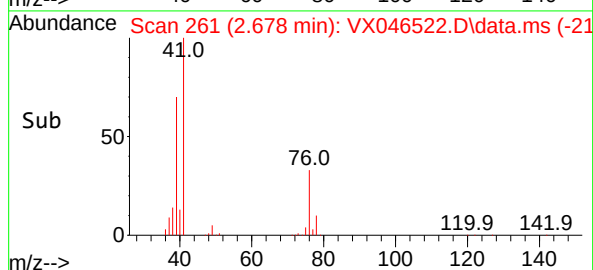
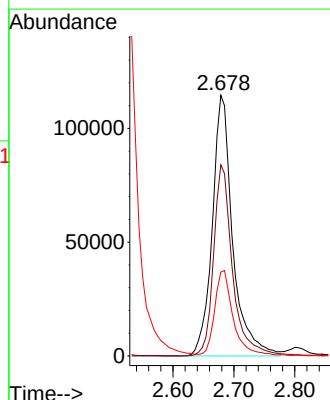
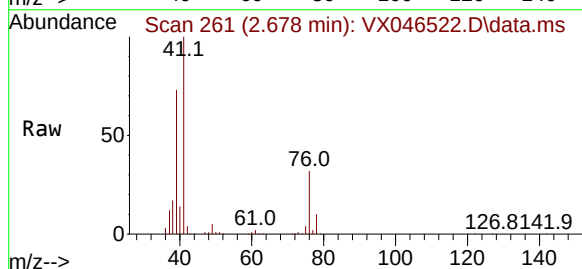
Tgt Ion: 41 Resp: 267359

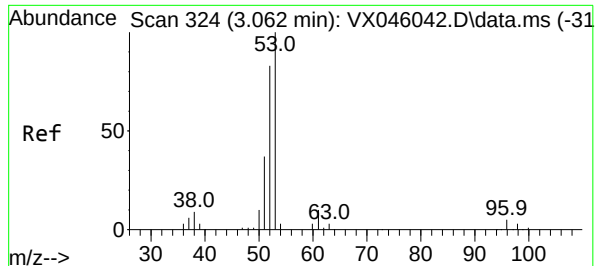
Ion Ratio Lower Upper

41 100

39 68.4 60.6 90.8

76 29.9 24.9 37.3





#15

Acrylonitrile

Concen: 810.040 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 53 Resp: 476614

Ion Ratio Lower Upper

53 100

52 83.0 65.3 97.9

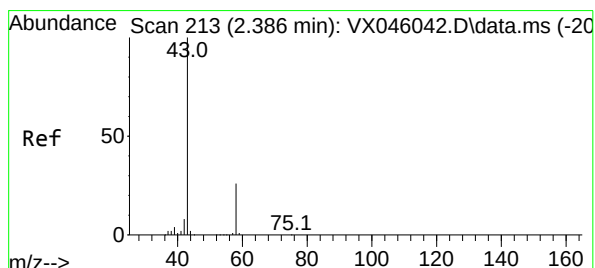
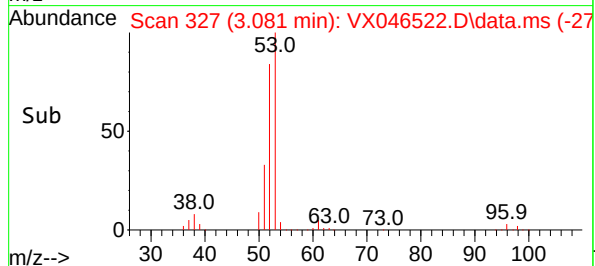
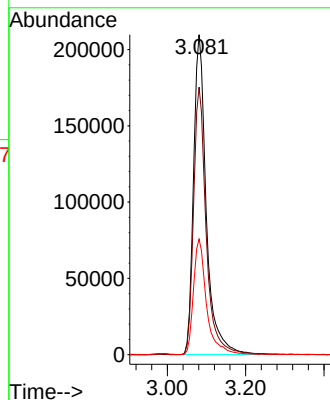
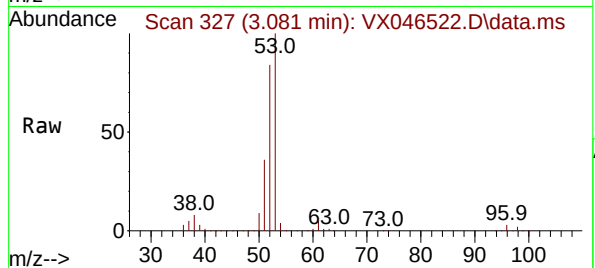
51 37.0 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 763.161 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX046522.D

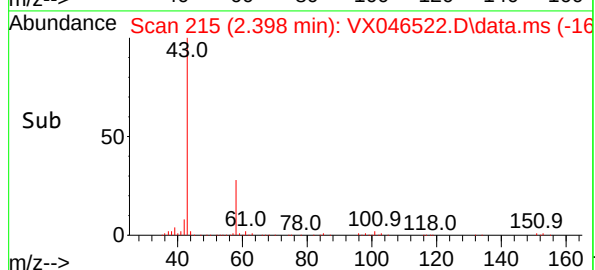
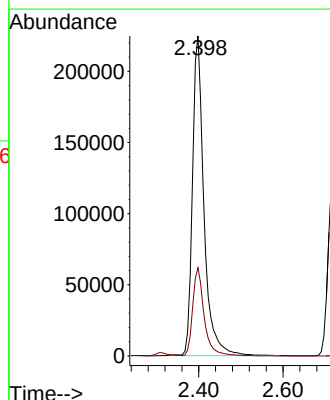
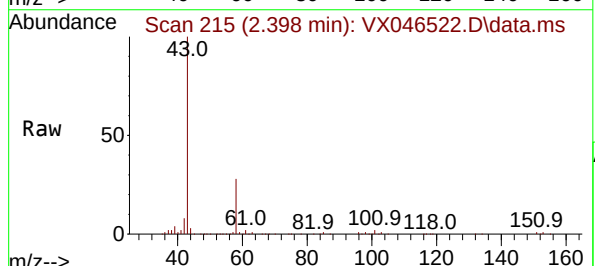
Acq: 06 Jun 2025 11:25

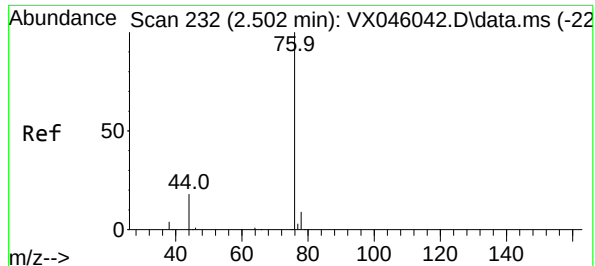
Tgt Ion: 43 Resp: 425579

Ion Ratio Lower Upper

43 100

58 27.5 21.2 31.8





#17

Carbon Disulfide

Concen: 152.815 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 304498

Ion Ratio Lower Upper

76 100

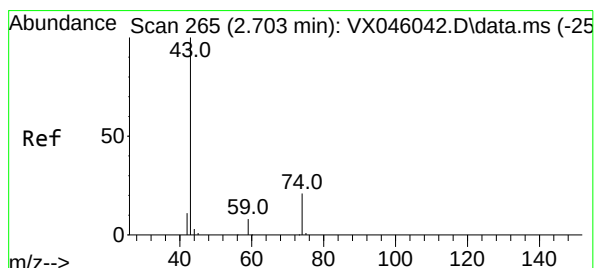
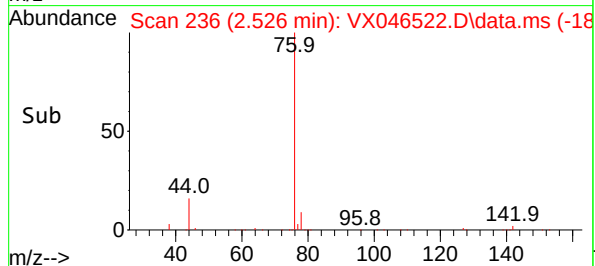
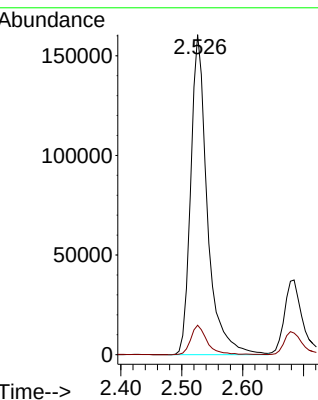
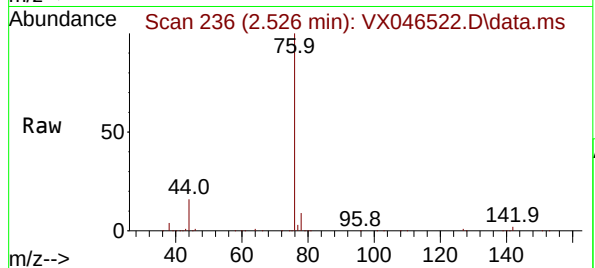
78 9.2 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 175.157 ug/l

RT: 2.721 min Scan# 268

Delta R.T. 0.000 min

Lab File: VX046522.D

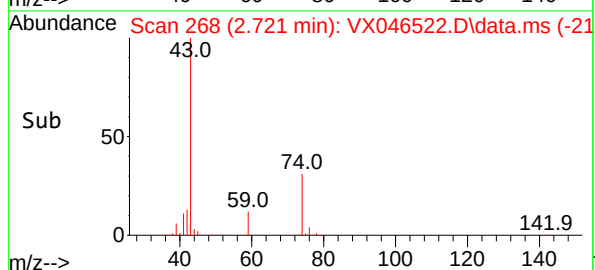
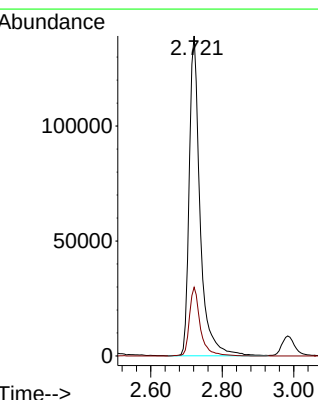
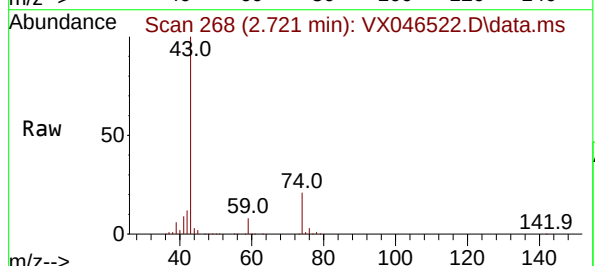
Acq: 06 Jun 2025 11:25

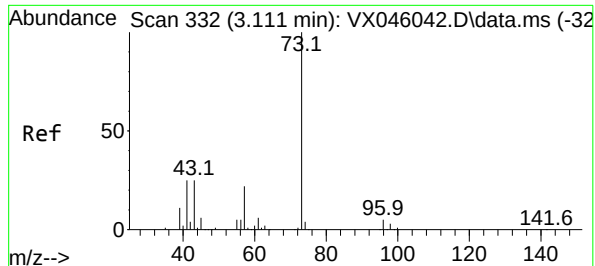
Tgt Ion: 43 Resp: 292598

Ion Ratio Lower Upper

43 100

74 21.6 16.7 25.1





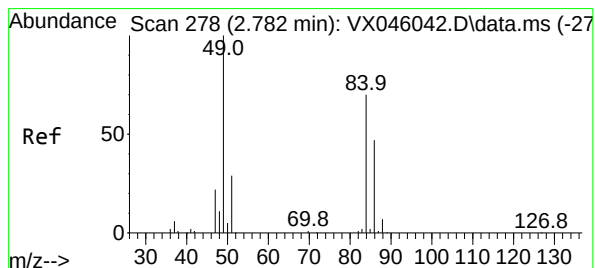
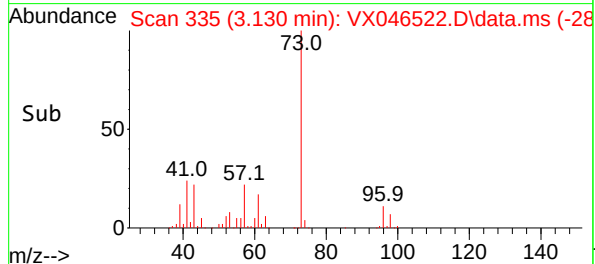
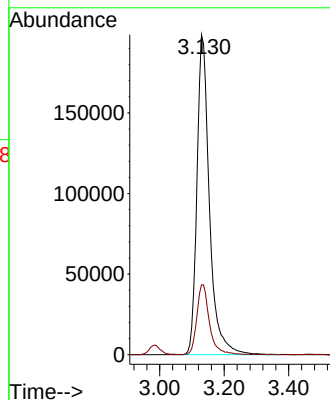
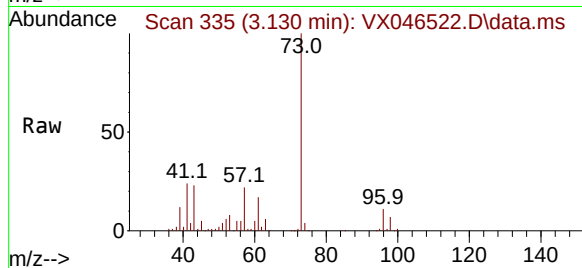
#19
Methyl tert-butyl Ether
Concen: 162.931 ug/l
RT: 3.130 min Scan# 31
Delta R.T. -0.005 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 73 Resp: 53355
Ion Ratio Lower Upper
73 100
57 21.8 17.7 26.5

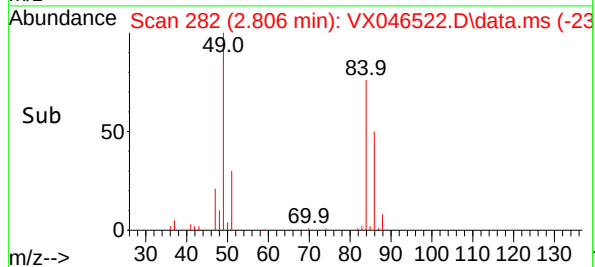
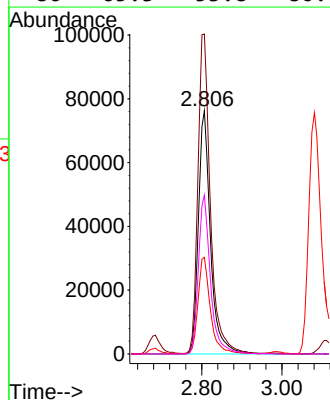
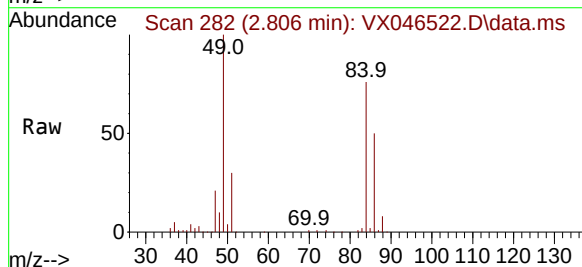
Manual Integrations
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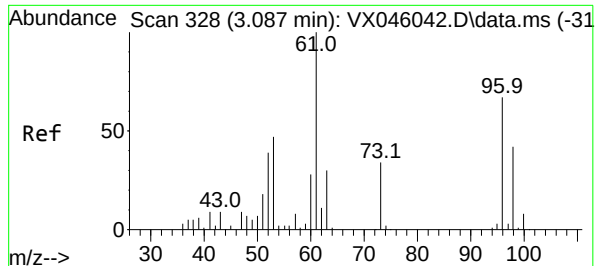
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 142.563 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

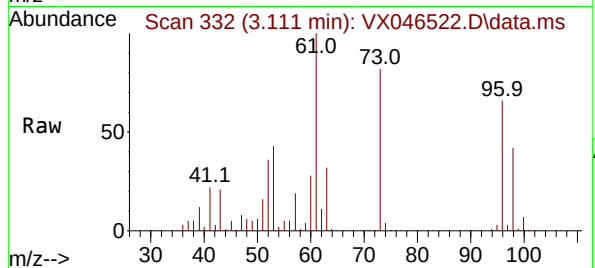
Tgt Ion: 84 Resp: 160400
Ion Ratio Lower Upper
84 100
49 131.3 113.9 170.9
51 39.6 33.5 50.3
86 65.3 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 141.768 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

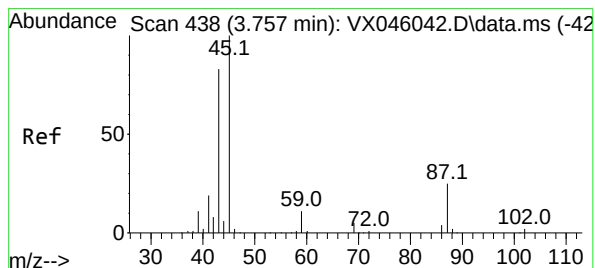
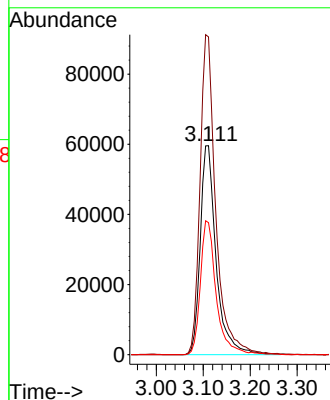
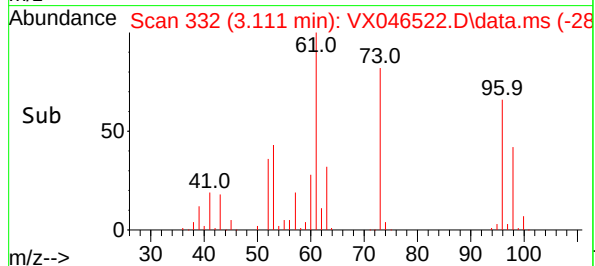
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 96 Resp: 140409
Ion Ratio Lower Upper
96 100
61 152.0 119.5 179.3
98 63.2 50.0 75.0

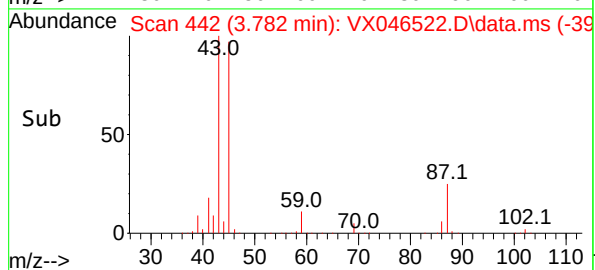
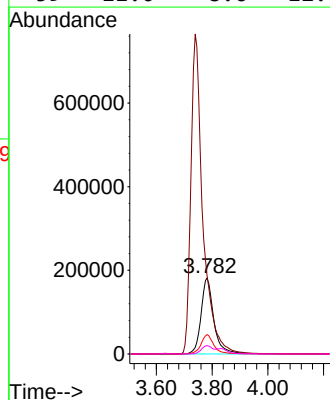
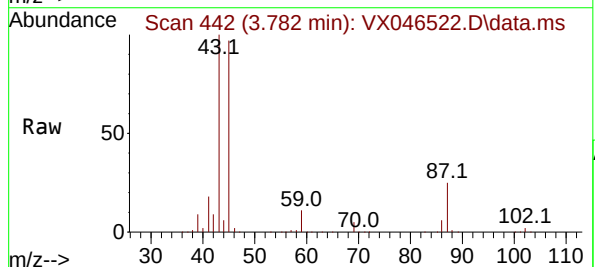
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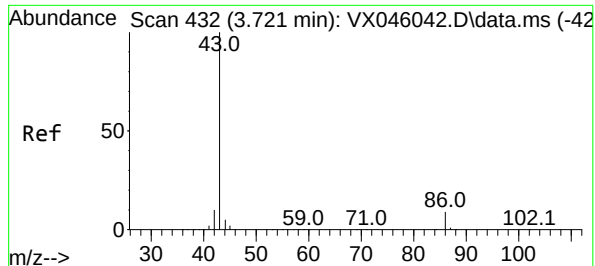
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 158.547 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 45 Resp: 574529
Ion Ratio Lower Upper
45 100
43 102.8 66.6 100.0#
87 25.4 19.8 29.6
59 11.0 8.6 12.8





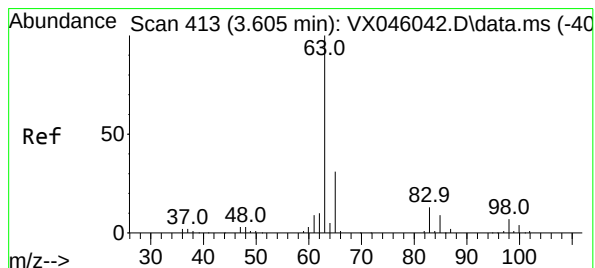
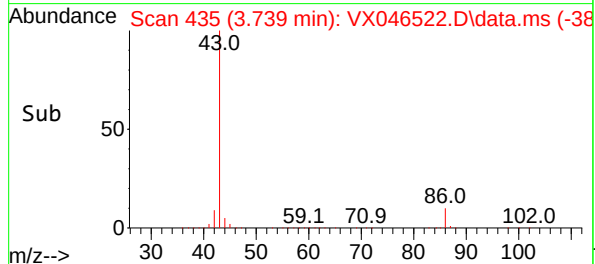
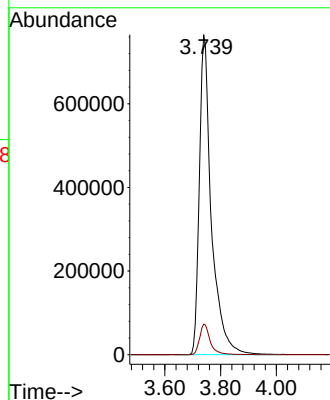
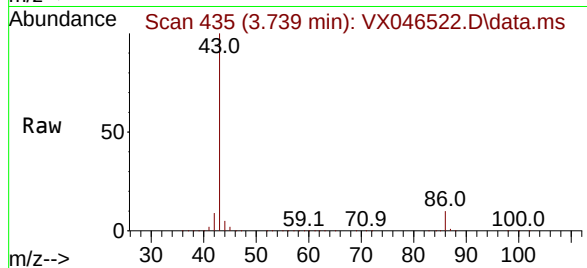
#23
Vinyl Acetate
Concen: 820.000 ug/l
RT: 3.739 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 229413
Ion Ratio Lower Upper
43 100
86 9.5 7.5 11.3

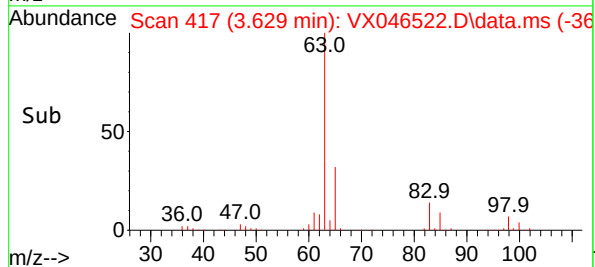
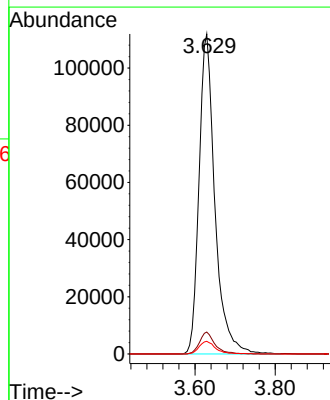
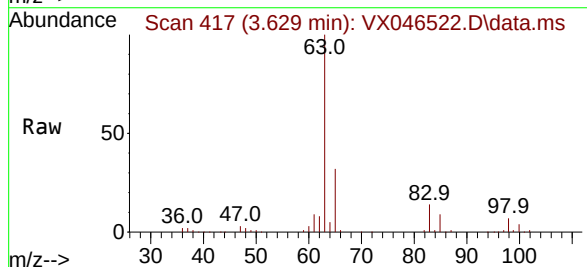
Manual Integrations
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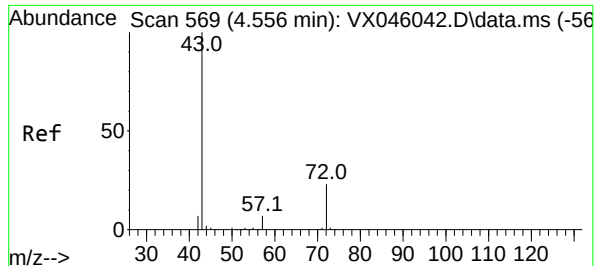
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 151.900 ug/l
RT: 3.629 min Scan# 417
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 63 Resp: 306779
Ion Ratio Lower Upper
63 100
98 6.9 3.6 10.8
100 3.9 2.1 6.3





#25

2-Butanone

Concen: 824.425 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 64363

Ion Ratio Lower Upper

43 100

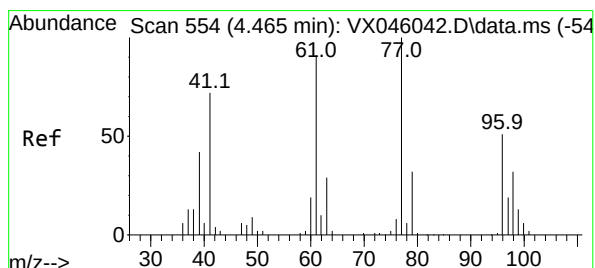
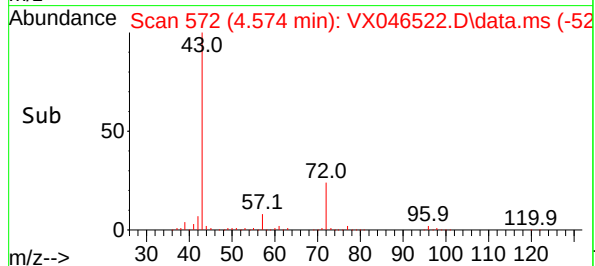
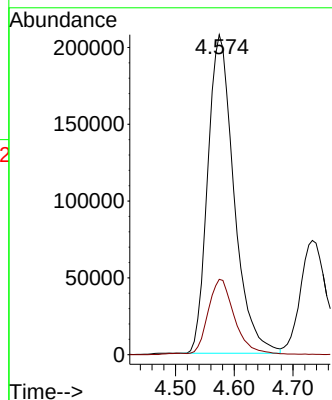
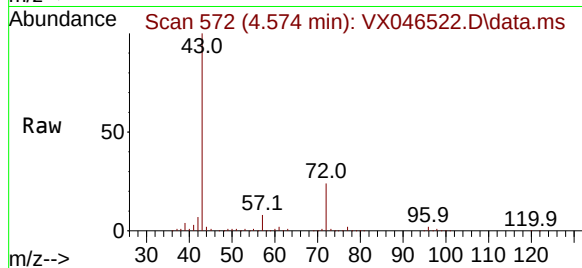
72 23.4 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 161.222 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX046522.D

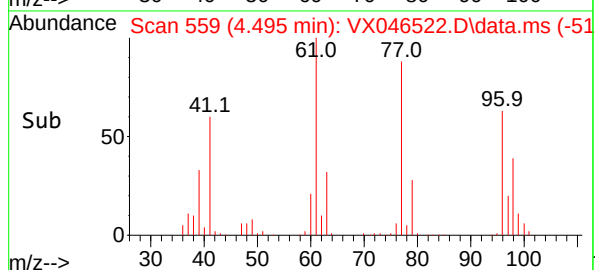
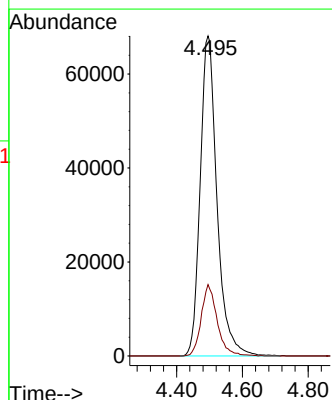
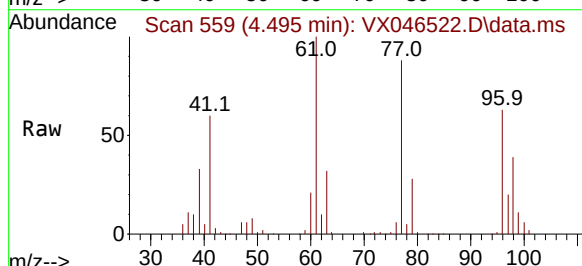
Acq: 06 Jun 2025 11:25

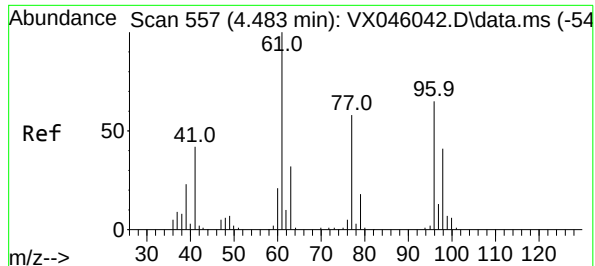
Tgt Ion: 77 Resp: 241718

Ion Ratio Lower Upper

77 100

97 21.2 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 148.753 ug/l

RT: 4.507 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 96 Resp: 18136

Ion Ratio Lower Upper

96 100

61 158.0 0.0 322.8

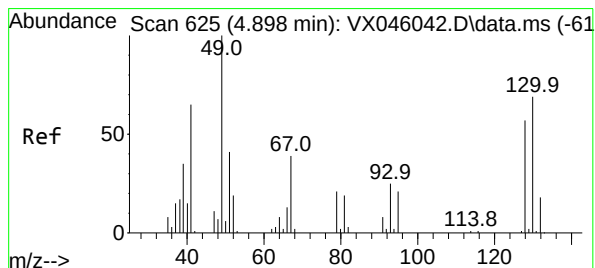
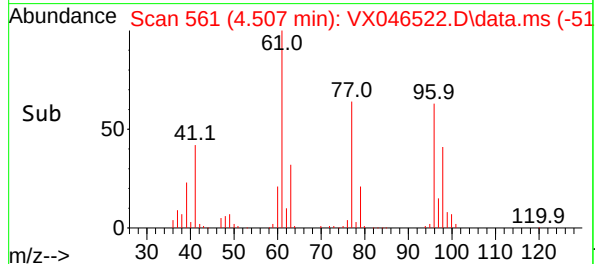
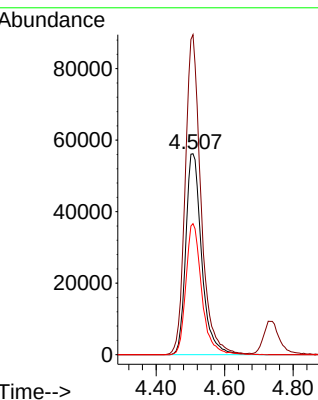
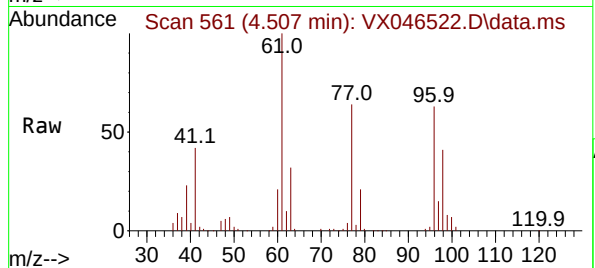
98 64.9 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 144.483 ug/l

RT: 4.916 min Scan# 628

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

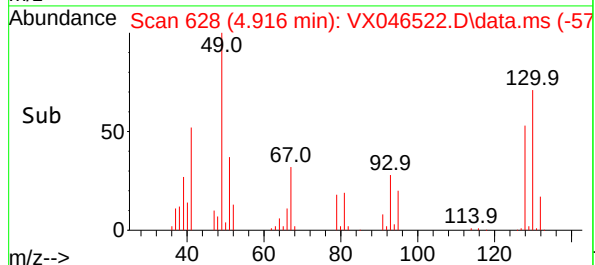
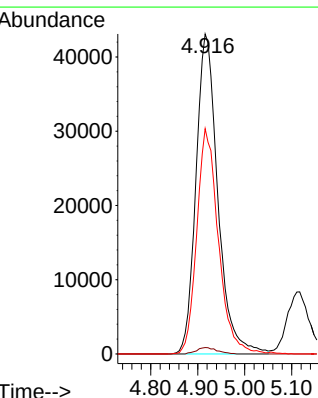
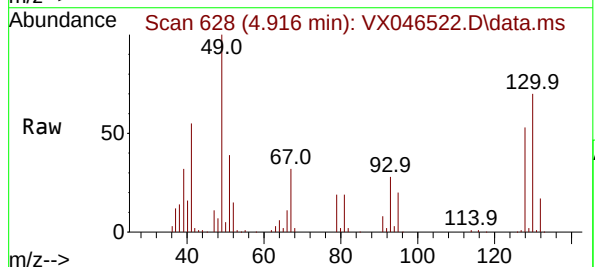
Tgt Ion: 49 Resp: 139177

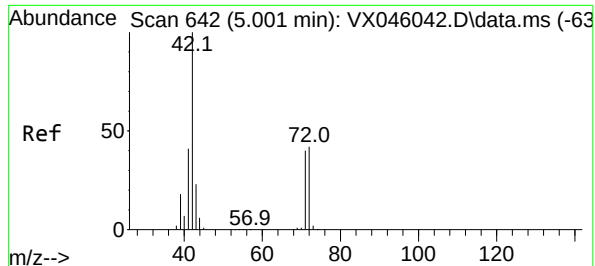
Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.0

130 69.4 56.2 84.2





#29

Tetrahydrofuran

Concen: 819.909 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 42 Resp: 404249

Ion Ratio Lower Upper

42 100

72 41.4 33.7 50.5

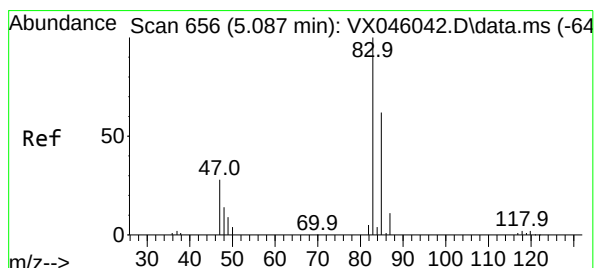
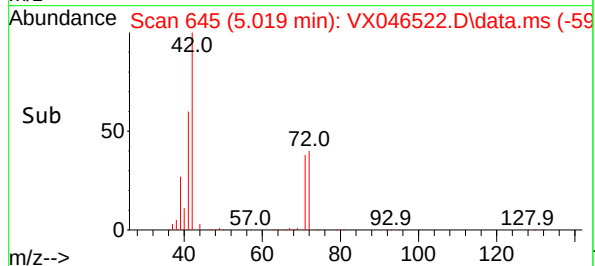
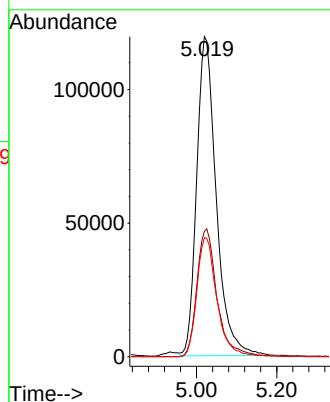
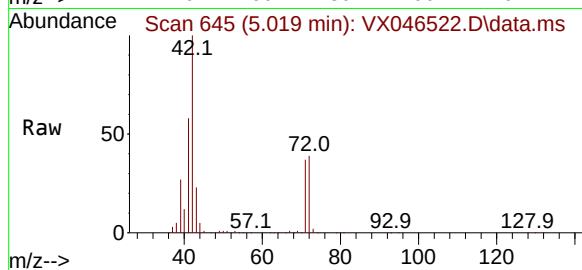
71 38.3 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 150.747 ug/l

RT: 5.111 min Scan# 660

Delta R.T. 0.000 min

Lab File: VX046522.D

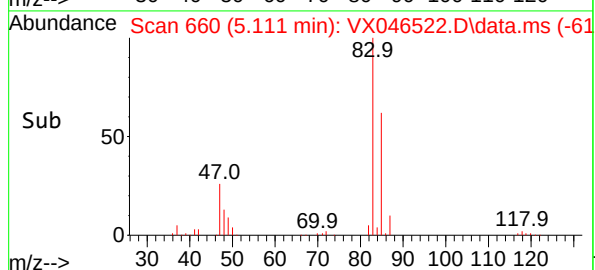
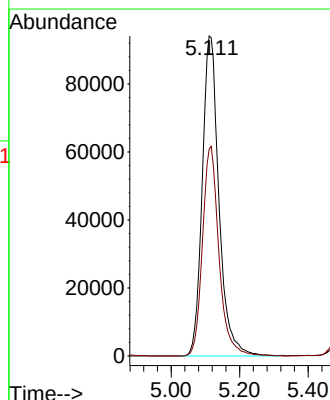
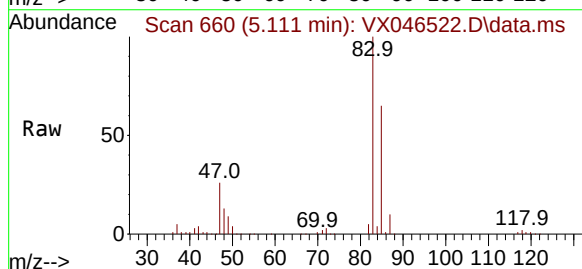
Acq: 06 Jun 2025 11:25

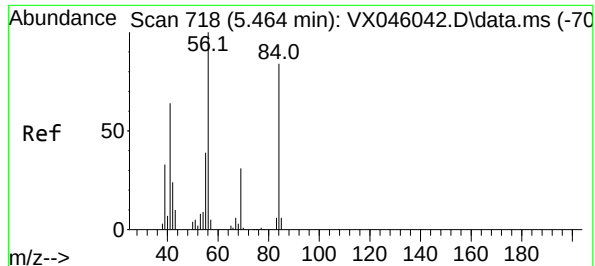
Tgt Ion: 83 Resp: 319000

Ion Ratio Lower Upper

83 100

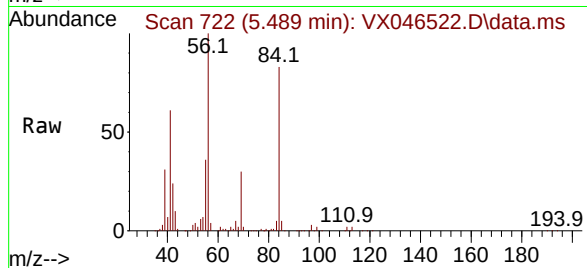
85 64.7 49.3 73.9





#31
Cyclohexane
Concen: 147.652 ug/l
RT: 5.489 min Scan# 718
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

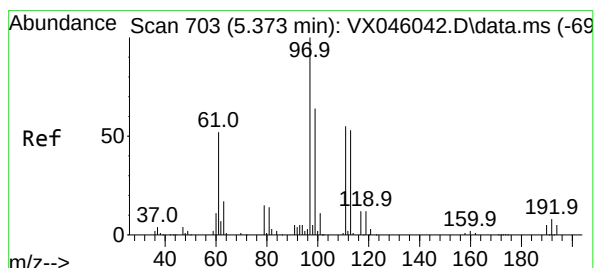
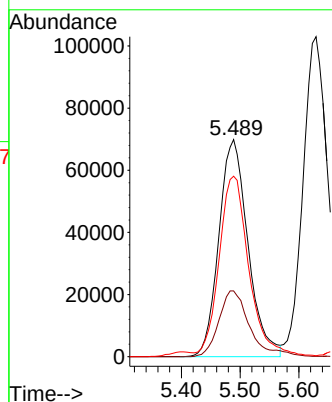
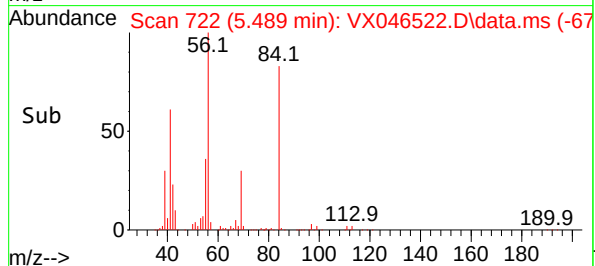
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion: 56 Resp: 240734
Ion Ratio Lower Upper
56 100
69 30.3 24.4 36.6
84 80.9 66.9 100.3

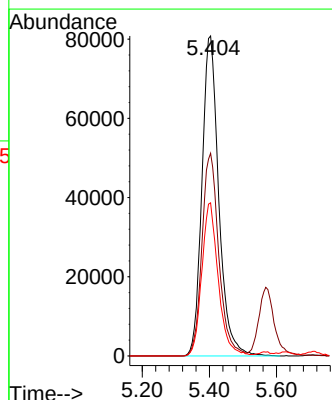
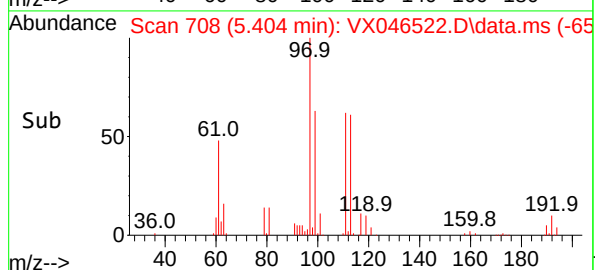
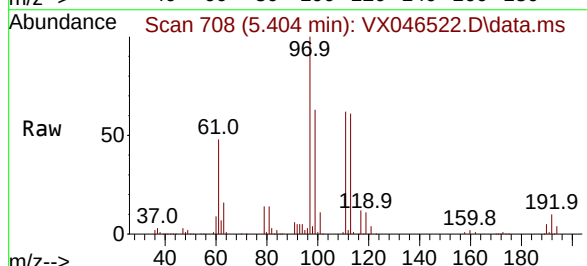
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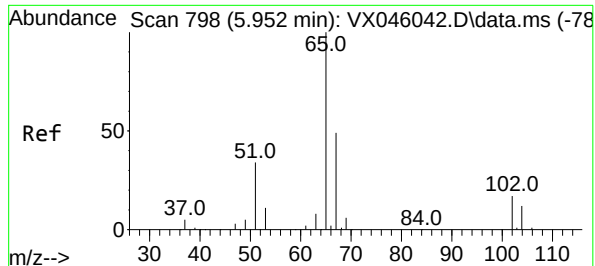
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#32
1,1,1-Trichloroethane
Concen: 155.193 ug/l
RT: 5.404 min Scan# 708
Delta R.T. 0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 97 Resp: 280921
Ion Ratio Lower Upper
97 100
99 63.6 51.8 77.6
61 47.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 151.835 ug/l

RT: 5.971 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 65 Resp: 212938

Ion Ratio Lower Upper

65 100

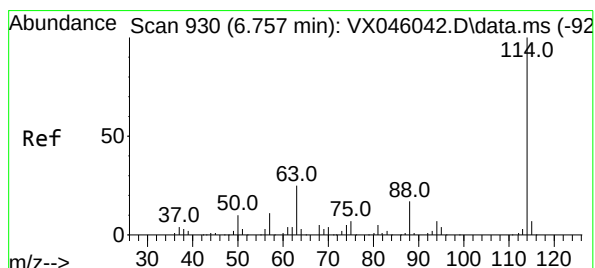
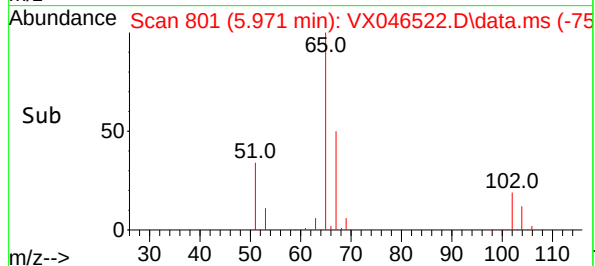
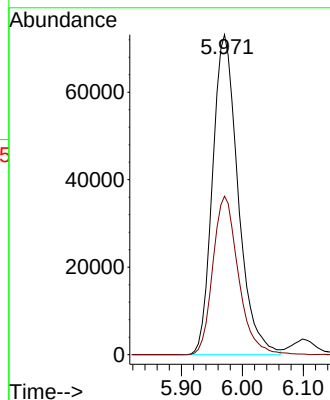
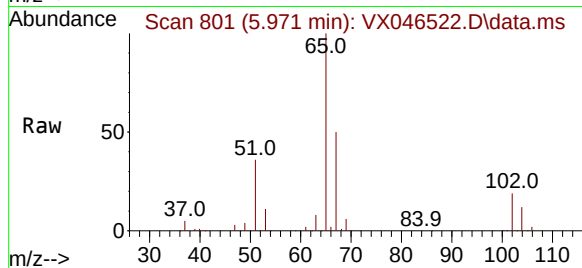
67 49.6 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

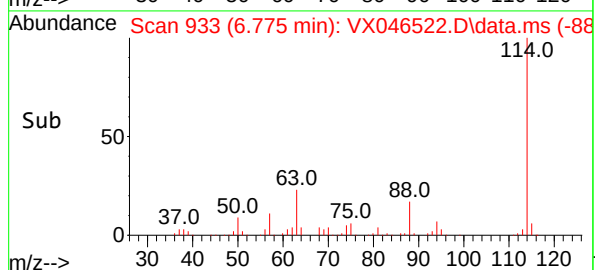
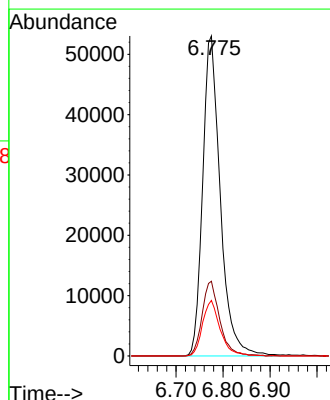
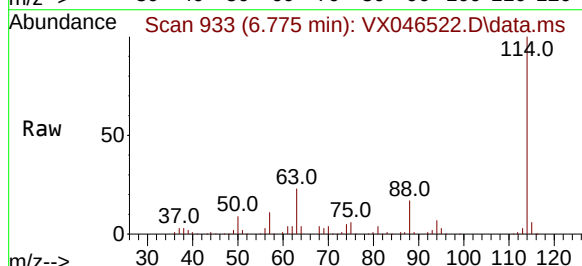
Tgt Ion:114 Resp: 138158

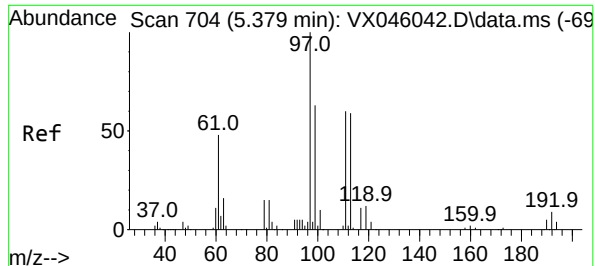
Ion Ratio Lower Upper

114 100

63 23.3 0.0 49.2

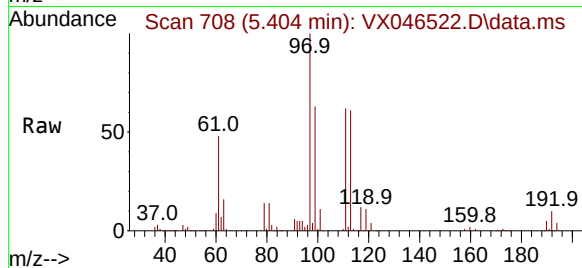
88 17.4 0.0 33.6





#35
Dibromofluoromethane
Concen: 154.516 ug/l
RT: 5.404 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

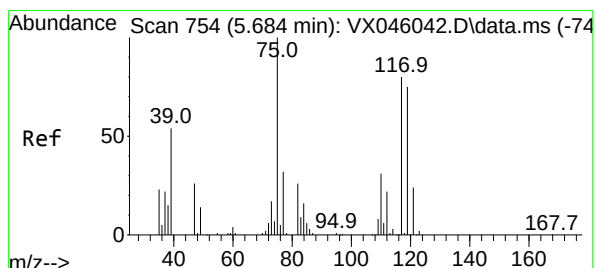
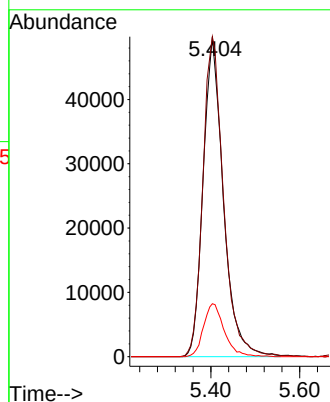
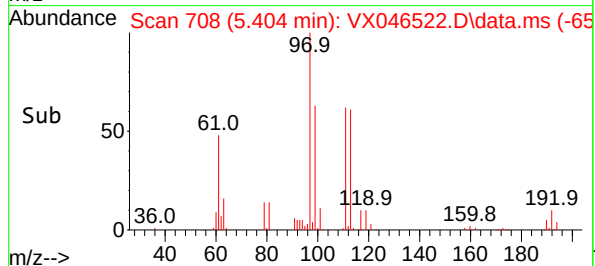
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150



Tgt Ion:113 Resp: 156990
Ion Ratio Lower Upper
113 100
111 102.8 83.1 124.7
192 17.1 13.3 19.9

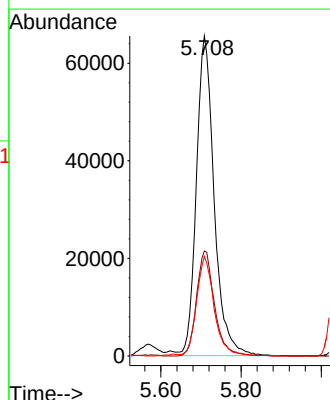
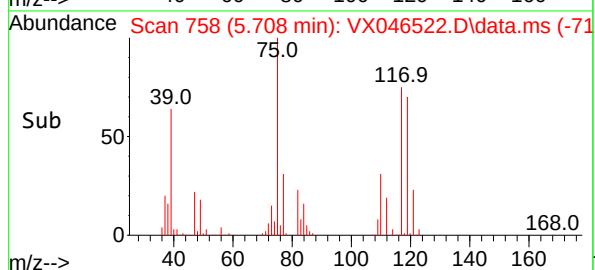
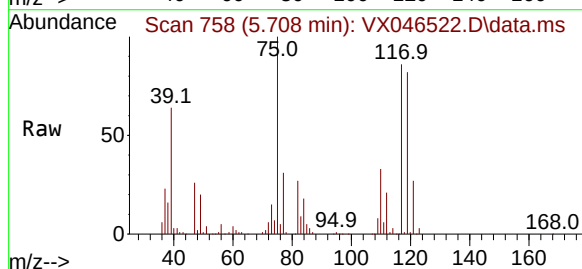
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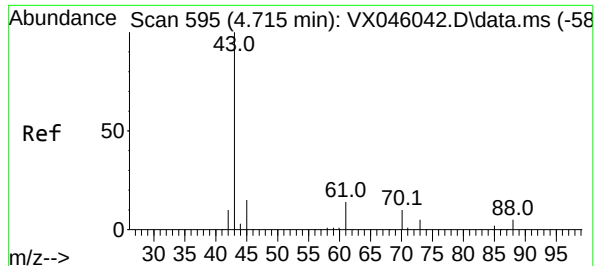
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#36
1,1-Dichloropropene
Concen: 138.605 ug/l
RT: 5.708 min Scan# 758
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 75 Resp: 201157
Ion Ratio Lower Upper
75 100
110 33.2 16.3 48.9
77 30.2 24.3 36.5





#37

Ethyl Acetate

Concen: 174.441 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 24703

Ion Ratio Lower Upper

43 100

61 12.7 10.3 15.5

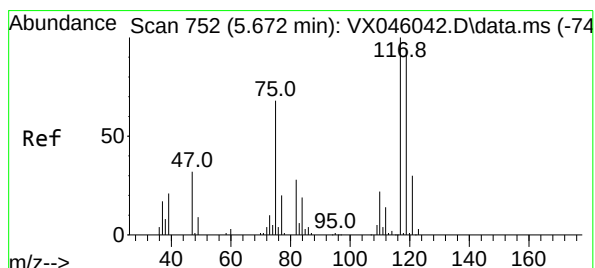
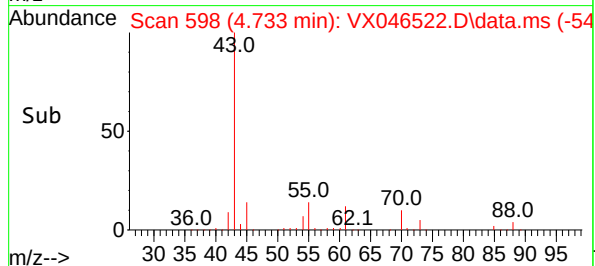
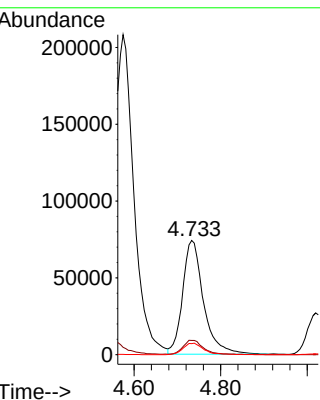
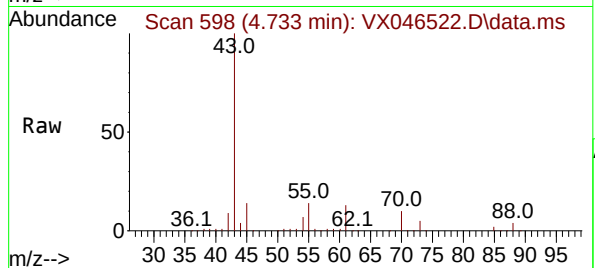
70 10.0 7.9 11.9

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 147.722 ug/l

RT: 5.696 min Scan# 756

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

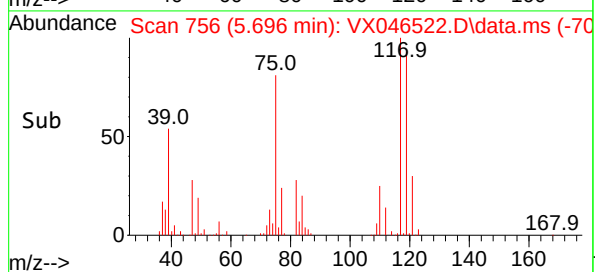
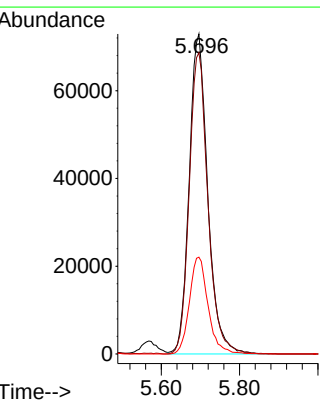
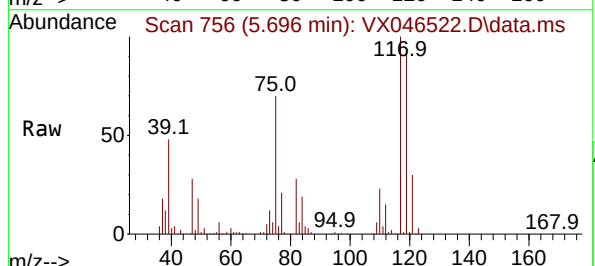
Tgt Ion:117 Resp: 240128

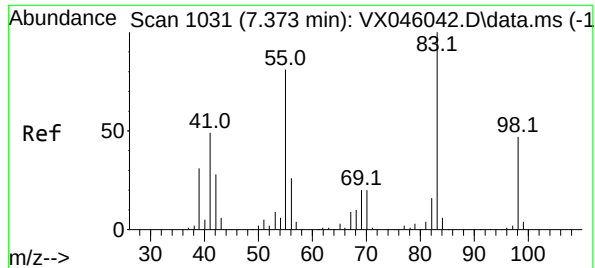
Ion Ratio Lower Upper

117 100

119 94.1 75.2 112.8

121 30.2 24.2 36.4





#39

Methylcyclohexane

Concen: 142.009 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 83 Resp: 24326

Ion Ratio Lower Upper

83 100

55 83.8 64.7 97.1

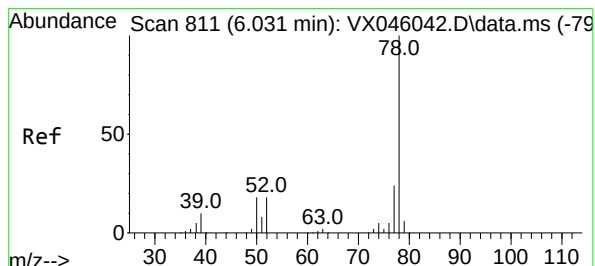
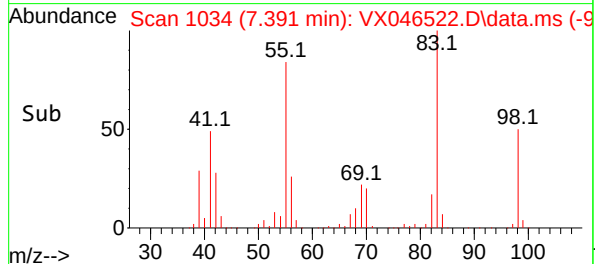
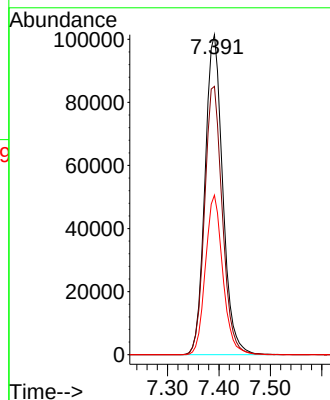
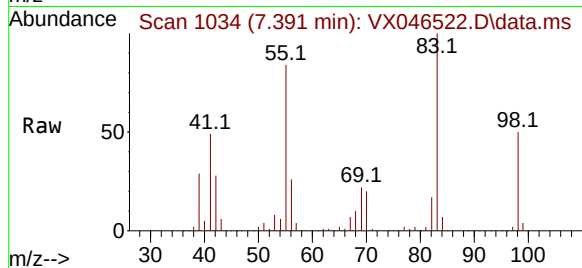
98 49.9 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 146.294 ug/l

RT: 6.056 min Scan# 815

Delta R.T. 0.000 min

Lab File: VX046522.D

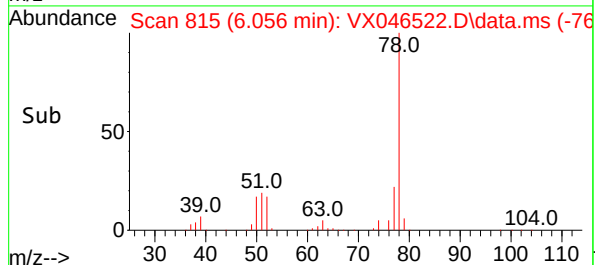
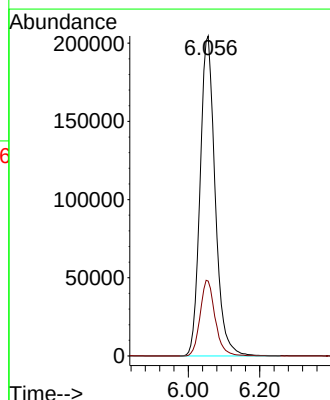
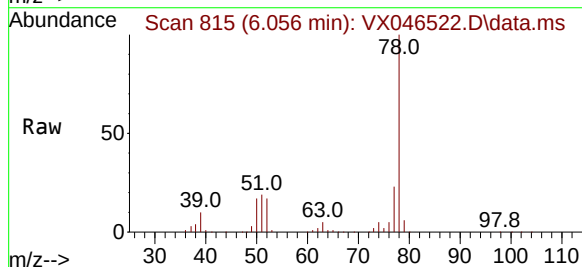
Acq: 06 Jun 2025 11:25

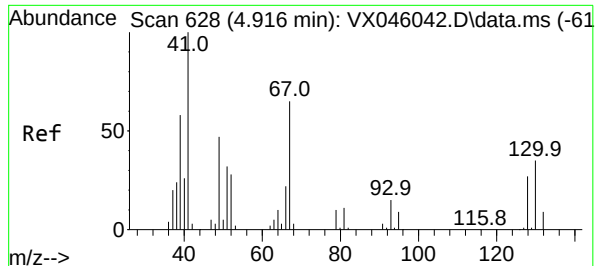
Tgt Ion: 78 Resp: 597704

Ion Ratio Lower Upper

78 100

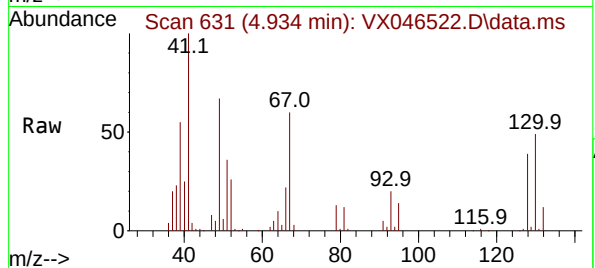
77 23.4 19.0 28.4





#41
Methacrylonitrile
Concen: 162.001 ug/l
RT: 4.934 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

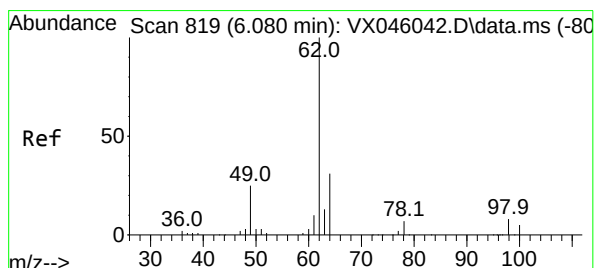
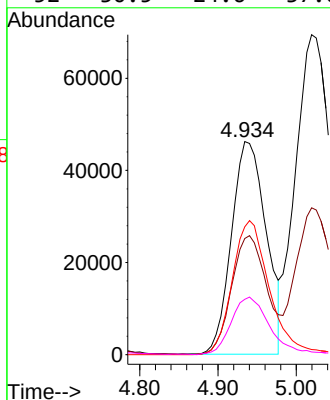
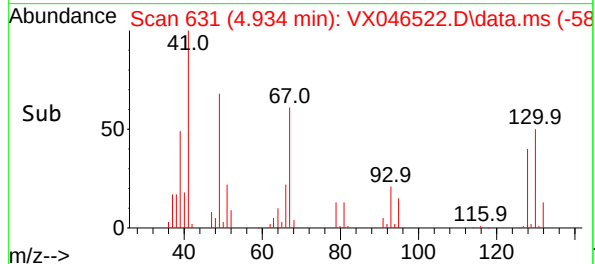
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion: 41 Resp: 142490
Ion Ratio Lower Upper
41 100
39 57.6 47.2 70.8
67 68.1 50.7 76.1
52 30.5 24.6 37.0

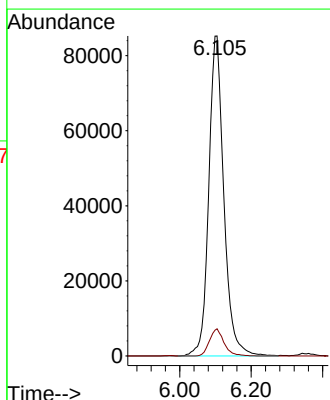
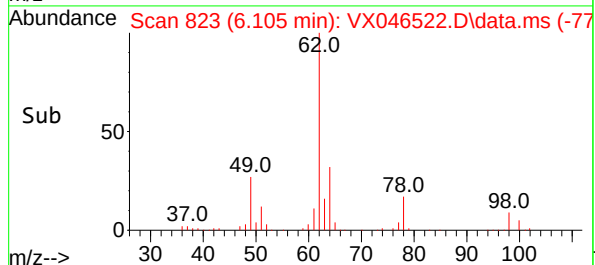
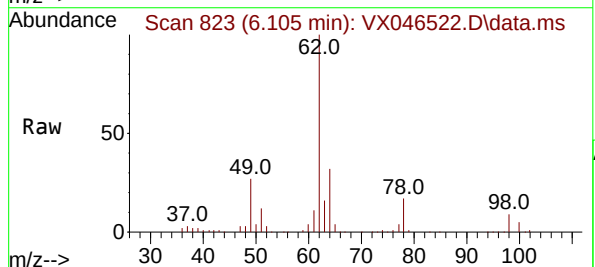
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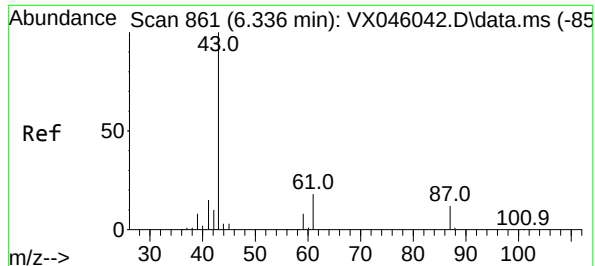
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 146.794 ug/l
RT: 6.105 min Scan# 823
Delta R.T. 0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 62 Resp: 249510
Ion Ratio Lower Upper
62 100
98 8.2 0.0 15.2





#43

Isopropyl Acetate

Concen: 168.193 ug/l

RT: 6.355 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 43 Resp: 41532

Ion Ratio Lower Upper

43 100

61 18.4 14.3 21.5

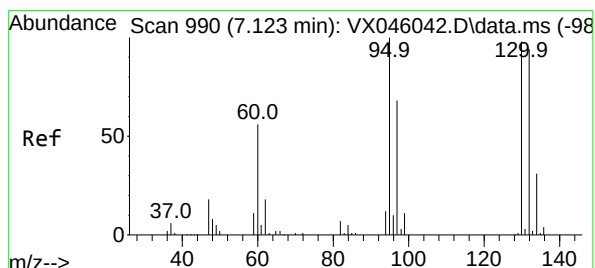
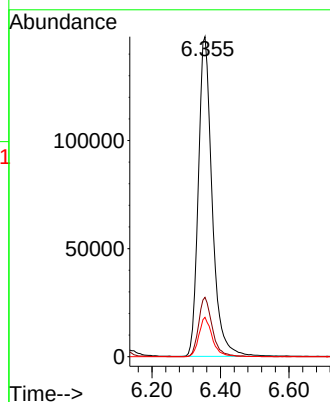
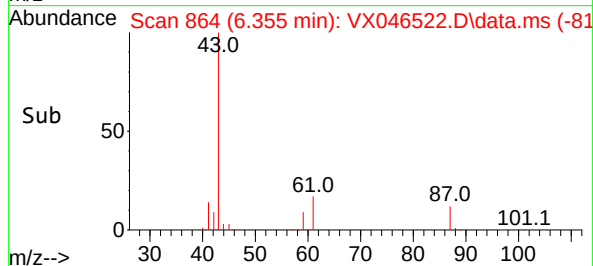
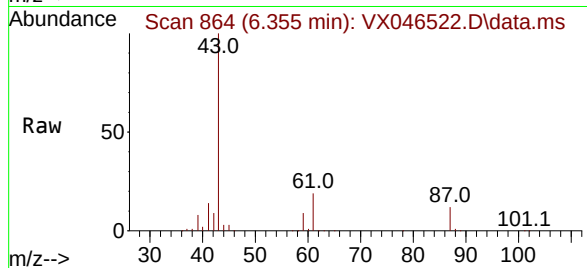
87 11.9 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

Concen: 141.503 ug/l

RT: 7.135 min Scan# 992

Delta R.T. 0.000 min

Lab File: VX046522.D

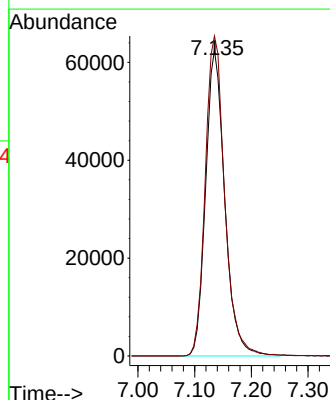
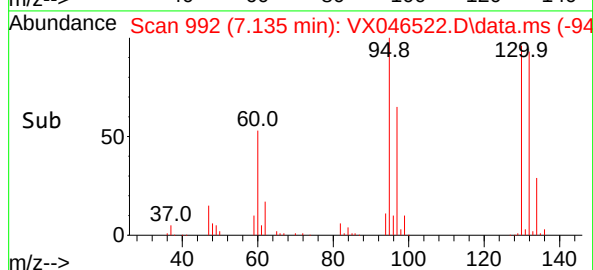
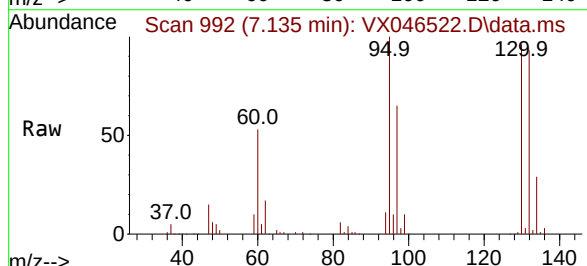
Acq: 06 Jun 2025 11:25

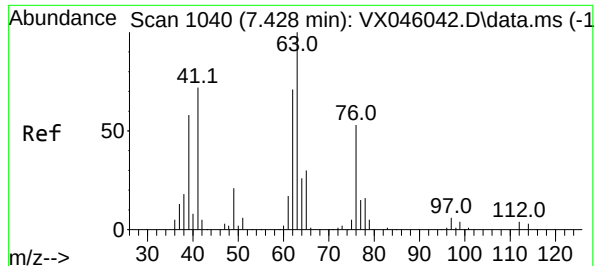
Tgt Ion:130 Resp: 146894

Ion Ratio Lower Upper

130 100

95 104.5 0.0 204.2





#45

1,2-Dichloropropane

Concen: 153.441 ug/l

RT: 7.440 min Scan# 1042

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 63 Resp: 16181

Ion Ratio Lower Upper

63 100

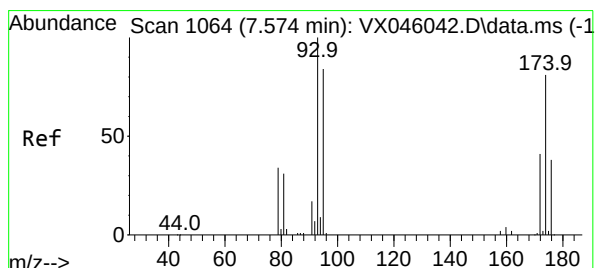
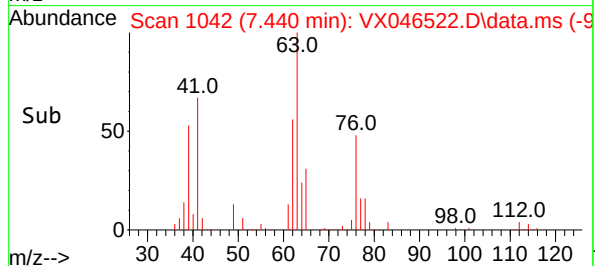
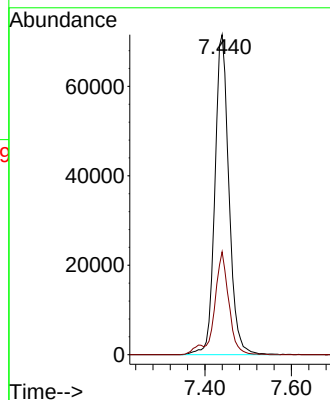
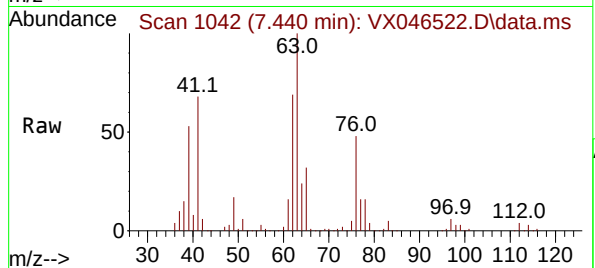
65 32.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 149.642 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

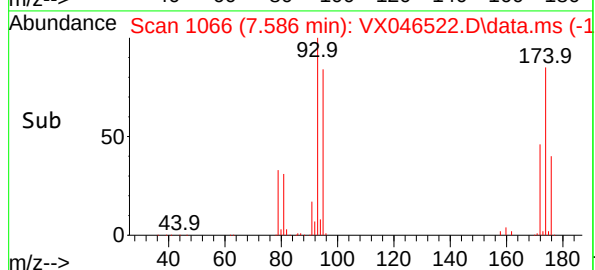
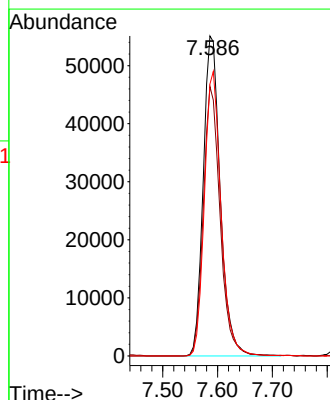
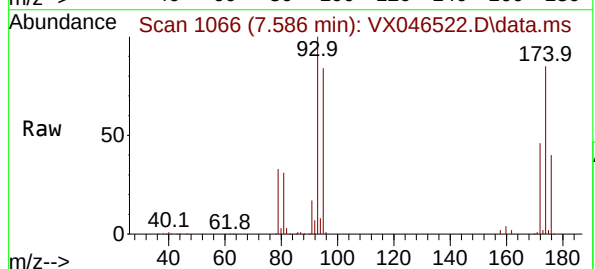
Tgt Ion: 93 Resp: 118718

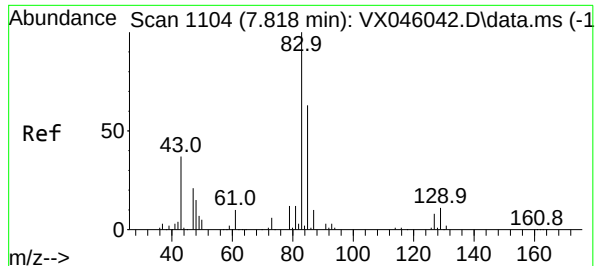
Ion Ratio Lower Upper

93 100

95 83.0 65.6 98.4

174 87.0 68.2 102.2





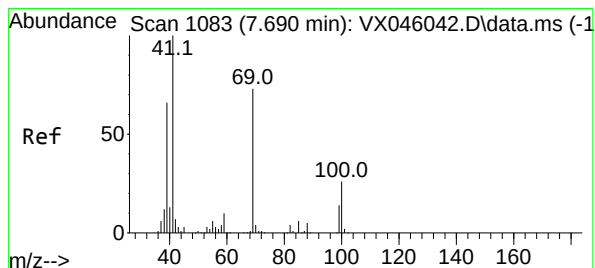
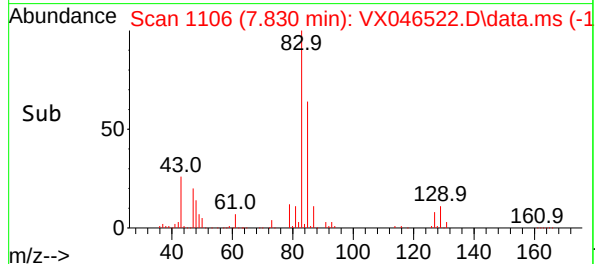
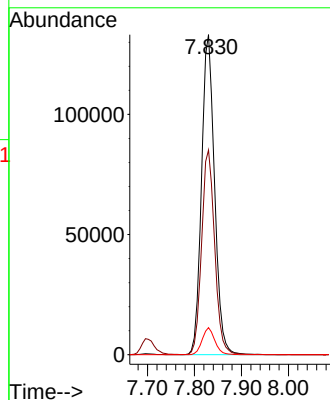
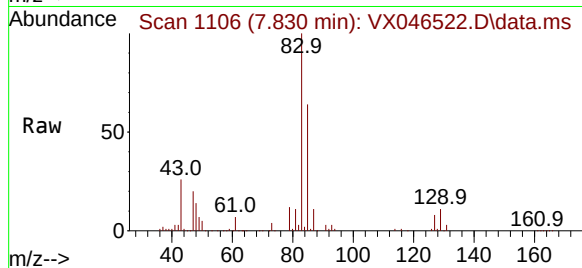
#47
Bromodichloromethane
Concen: 157.050 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 25618
Ion Ratio Lower Upper
83 100
85 63.9 50.5 75.7
127 8.5 6.5 9.7

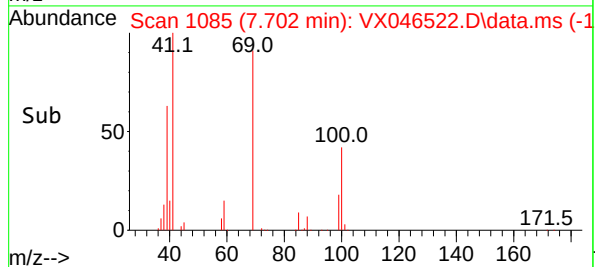
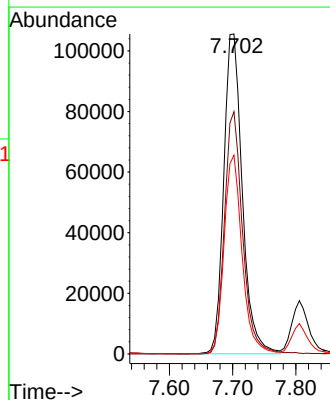
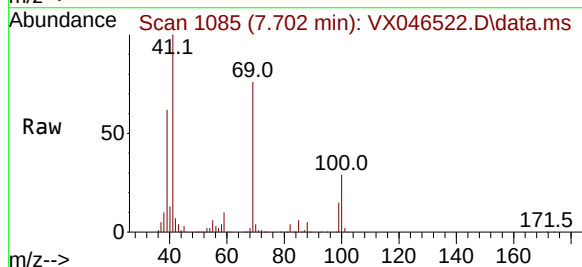
Manual Integrations
APPROVED

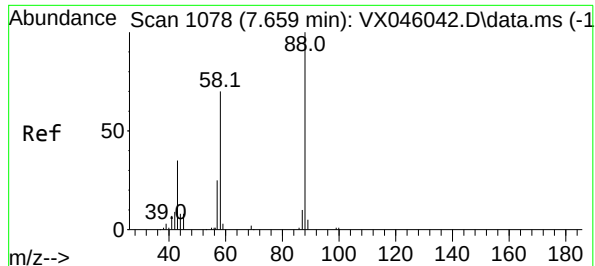
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#48
Methyl methacrylate
Concen: 168.505 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 41 Resp: 214089
Ion Ratio Lower Upper
41 100
69 74.3 58.5 87.7
39 60.3 51.7 77.5





#49

1,4-Dioxane

Concen: 3384.526 ug/l

RT: 7.671 min Scan# 110

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

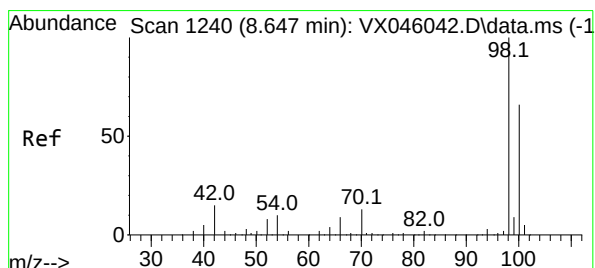
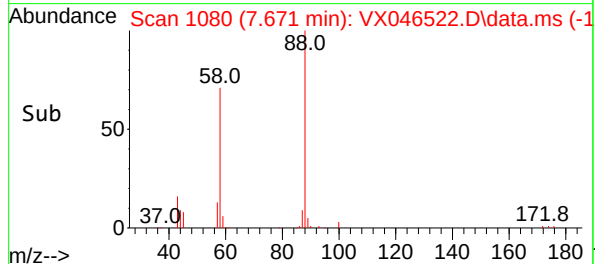
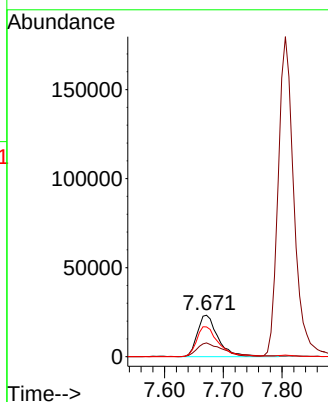
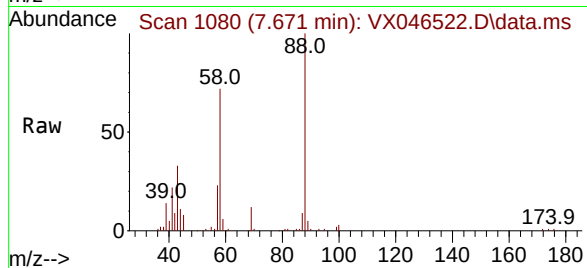
Tgt Ion:	88	Resp:	57504
Ion	Ratio	Lower	Upper
88	100		
43	39.7	33.4	50.2
58	76.2	58.6	88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 150.978 ug/l

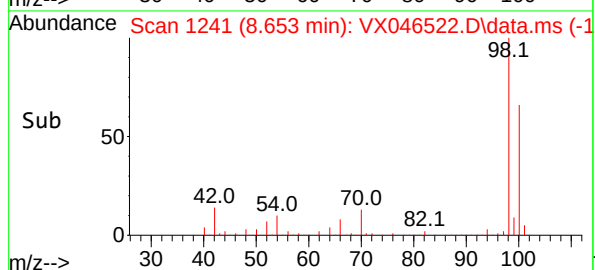
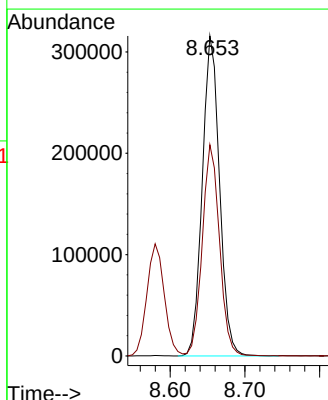
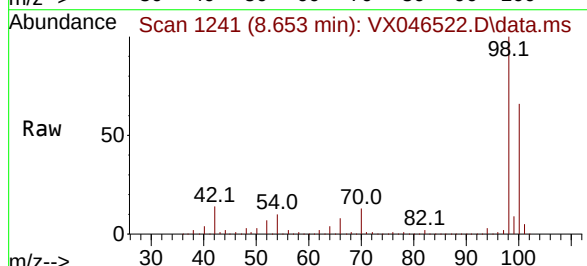
RT: 8.653 min Scan# 1241

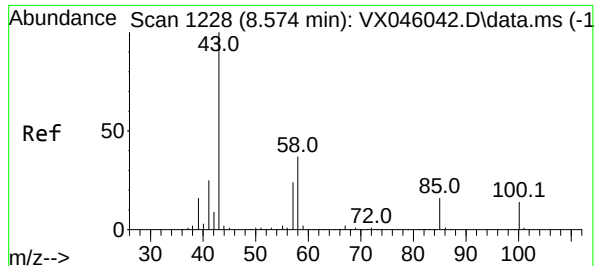
Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Tgt Ion:	98	Resp:	505724
Ion	Ratio	Lower	Upper
98	100		
100	65.9	53.5	80.3





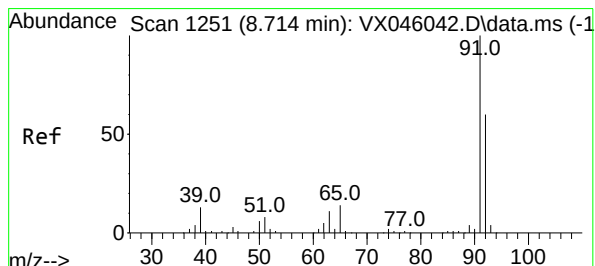
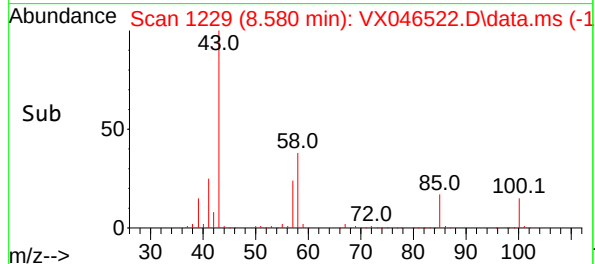
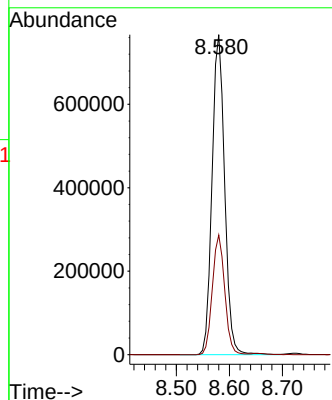
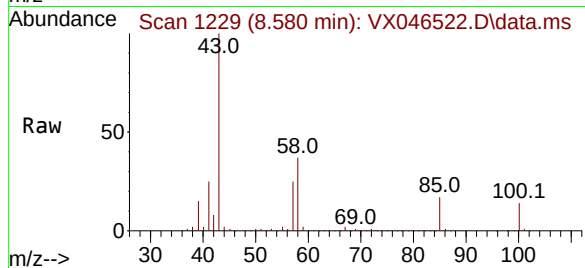
#51
4-Methyl-2-Pentanone
Concen: 804.759 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 43 Resp: 126281
Ion Ratio Lower Upper
43 100
58 36.7 28.9 43.3

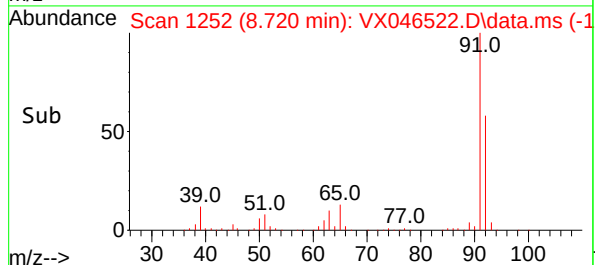
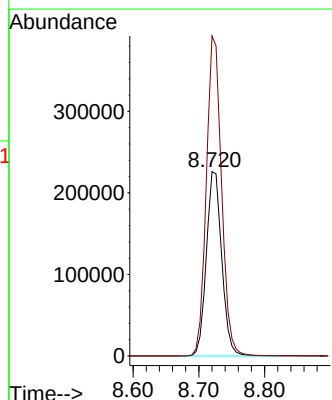
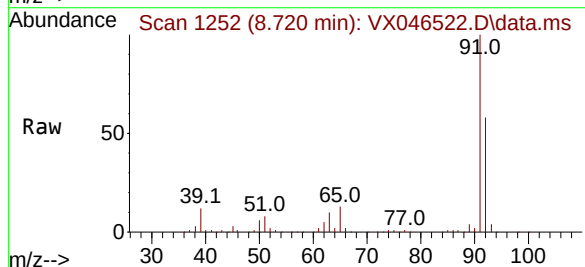
Manual Integrations
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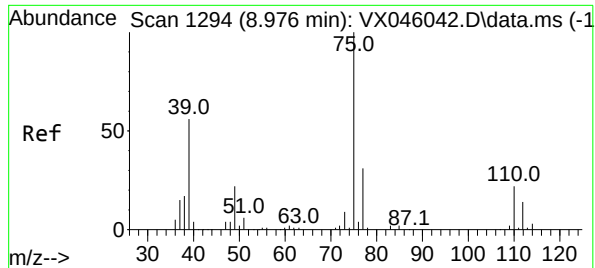
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 146.666 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 92 Resp: 368137
Ion Ratio Lower Upper
92 100
91 171.8 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 170.450 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 75 Resp: 249298

Ion Ratio Lower Upper

75 100

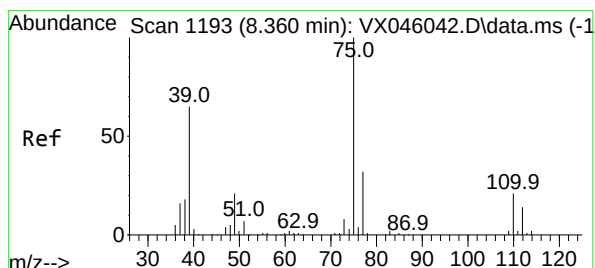
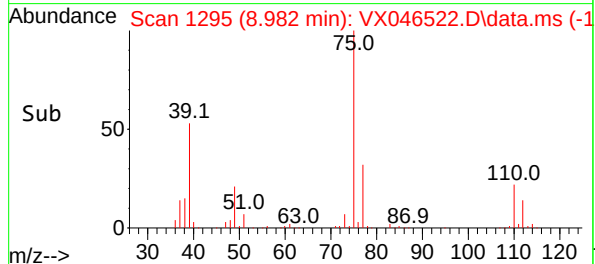
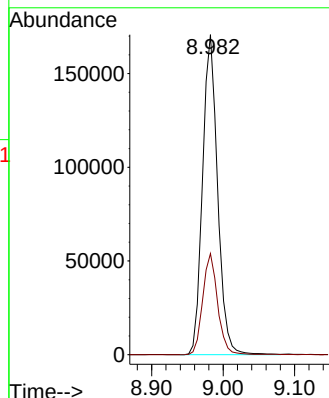
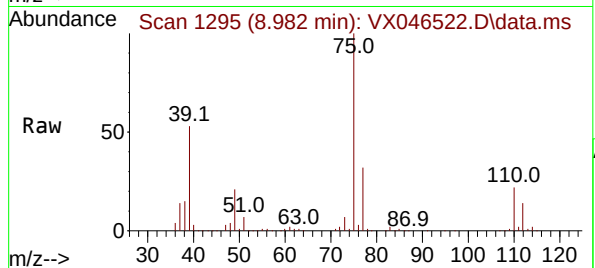
77 31.6 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 161.266 ug/l

RT: 8.373 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

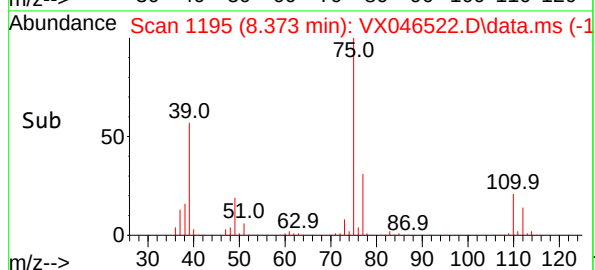
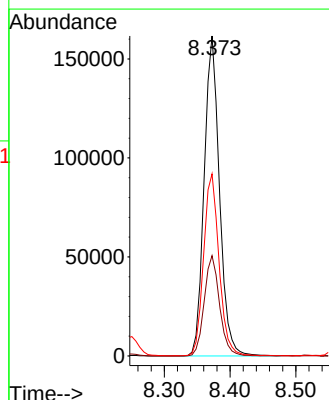
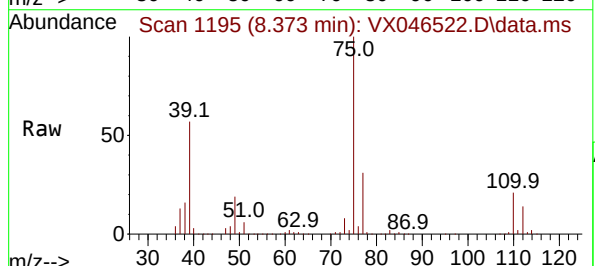
Tgt Ion: 75 Resp: 262248

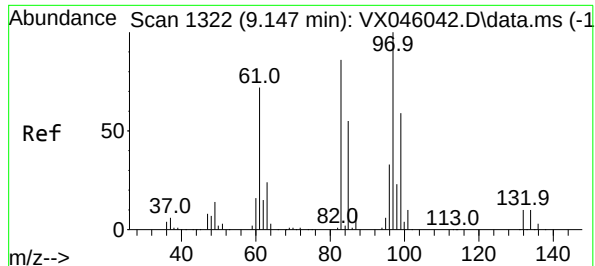
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

39 56.8 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 153.049 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 97 Resp: 154220

Ion Ratio Lower Upper

97 100

83 85.1 69.0 103.6

85 57.1 44.3 66.5

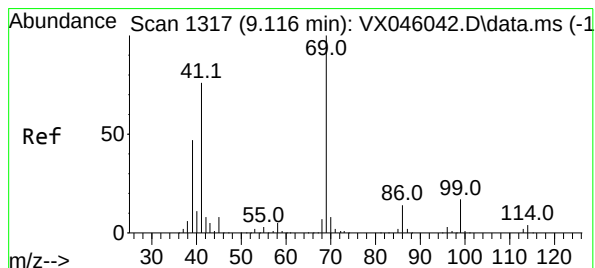
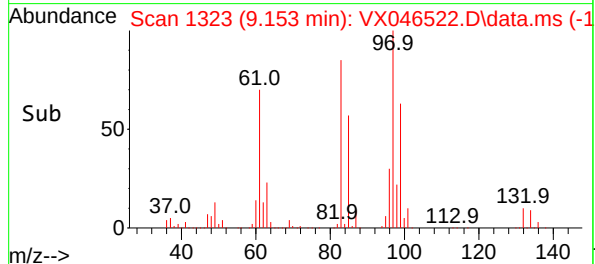
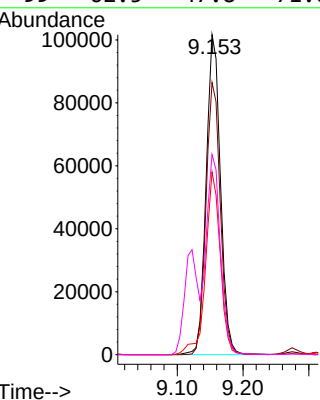
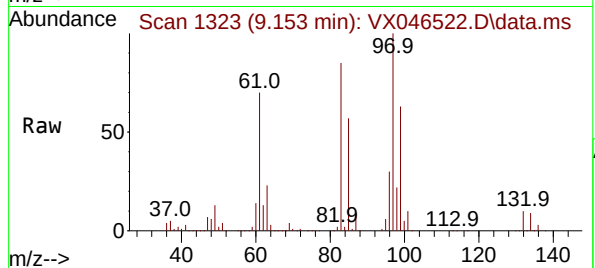
99 62.5 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 168.851 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

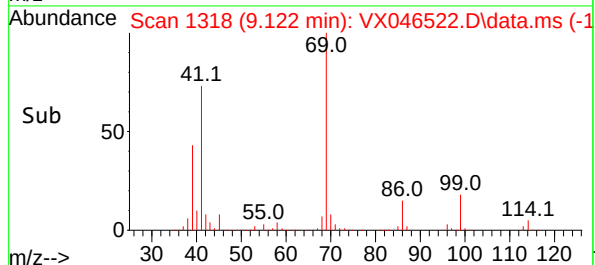
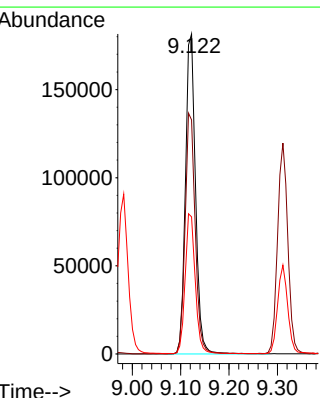
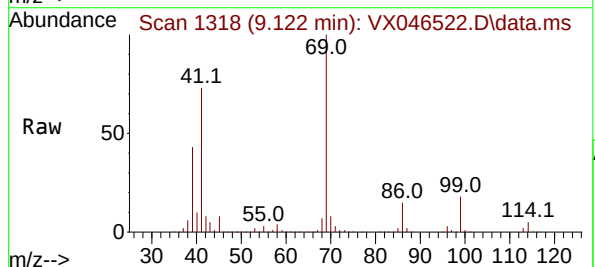
Tgt Ion: 69 Resp: 261827

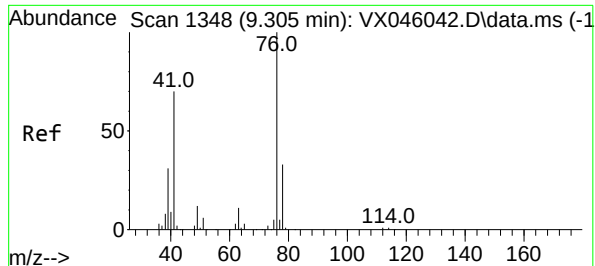
Ion Ratio Lower Upper

69 100

41 75.8 60.8 91.2

39 43.6 39.0 58.6





#57

1,3-Dichloropropane

Concen: 148.186 ug/l

RT: 9.311 min Scan# 1175

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 76 Resp: 263879

Ion Ratio Lower Upper

76 100

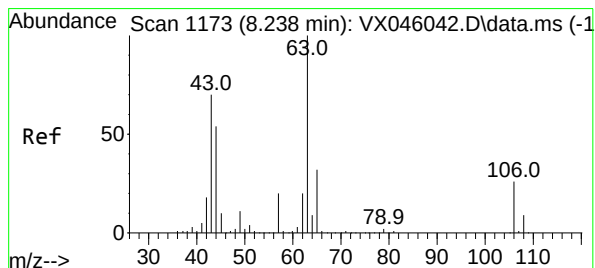
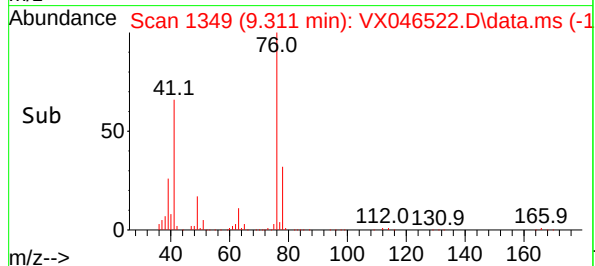
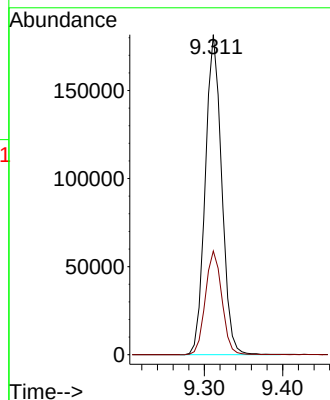
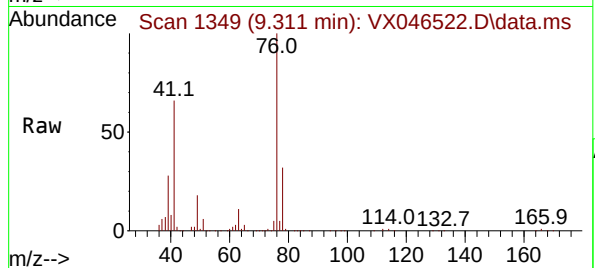
78 32.6 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 800.891 ug/l

RT: 8.251 min Scan# 1175

Delta R.T. 0.006 min

Lab File: VX046522.D

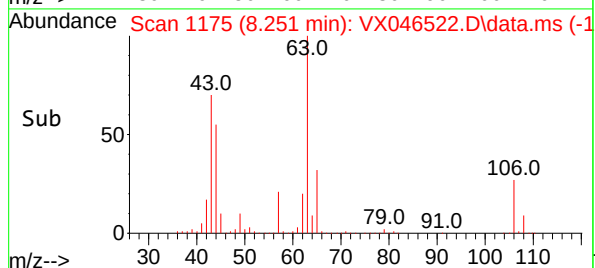
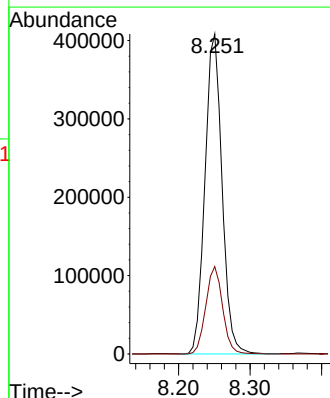
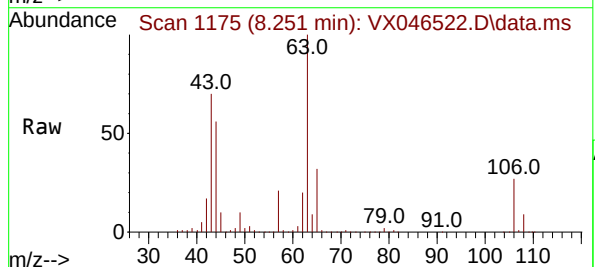
Acq: 06 Jun 2025 11:25

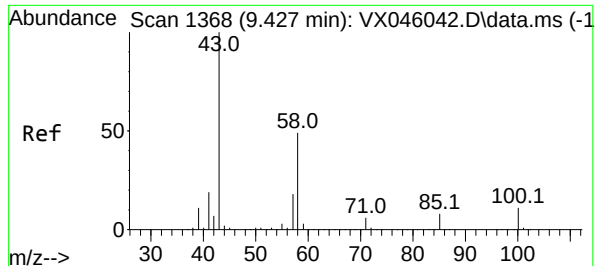
Tgt Ion: 63 Resp: 676448

Ion Ratio Lower Upper

63 100

106 26.9 21.5 32.3





#59

2-Hexanone

Concen: 806.953 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 43 Resp: 90814

Ion Ratio Lower Upper

43 100

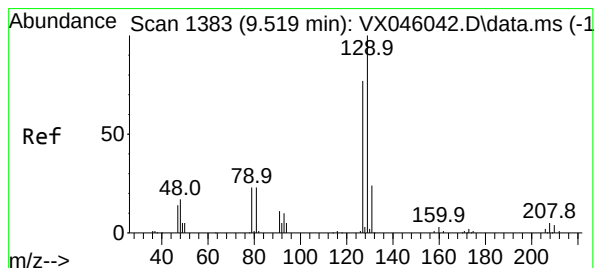
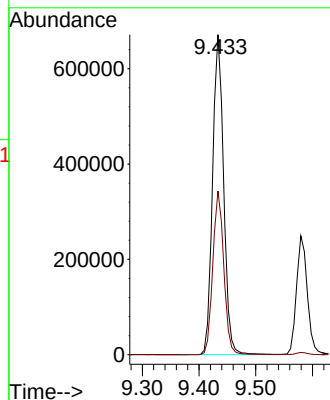
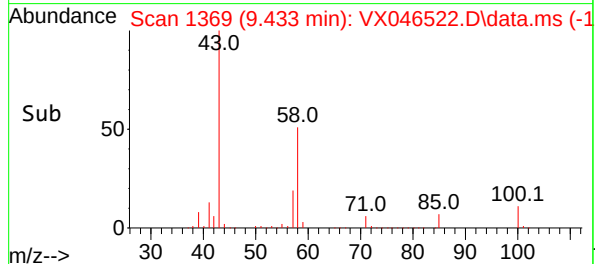
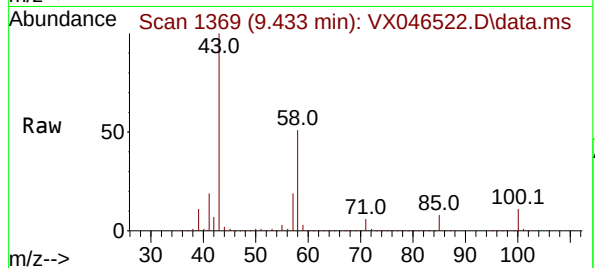
58 50.8 24.9 74.6

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 156.239 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VX046522.D

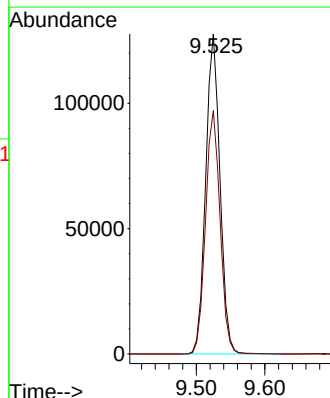
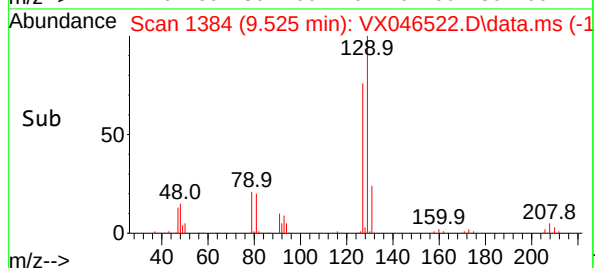
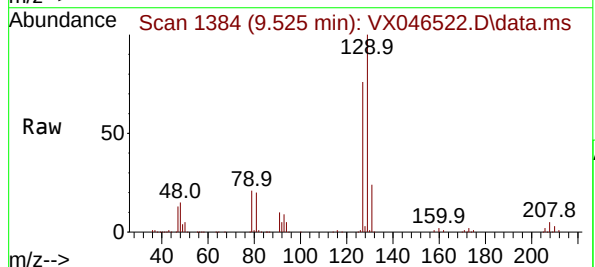
Acq: 06 Jun 2025 11:25

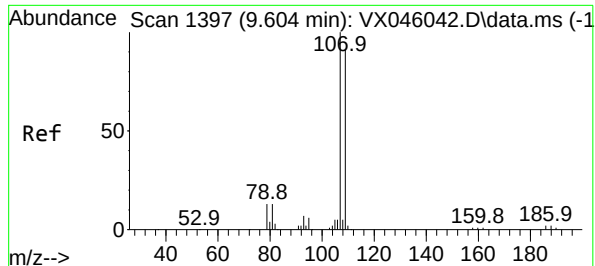
Tgt Ion:129 Resp: 185185

Ion Ratio Lower Upper

129 100

127 77.5 39.3 117.8





#61

1,2-Dibromoethane

Concen: 149.399 ug/l

RT: 9.610 min Scan# 1397

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:107 Resp: 15687

Ion Ratio Lower Upper

107 100

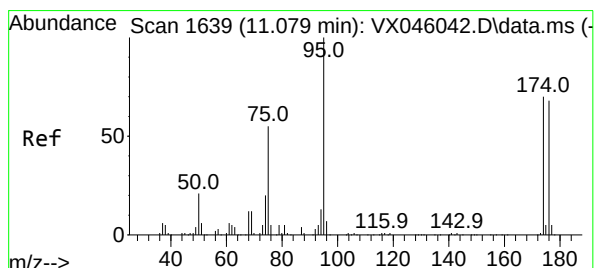
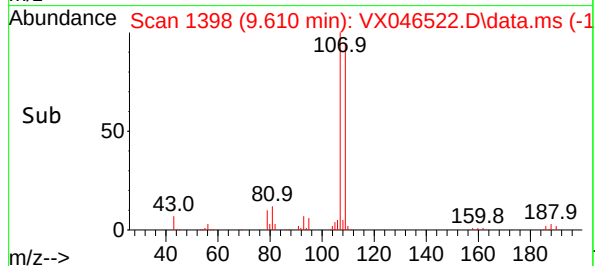
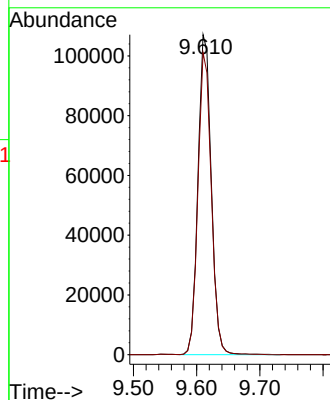
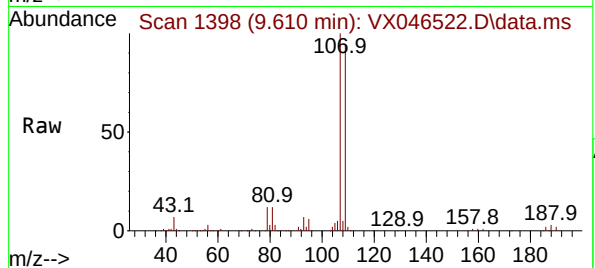
109 94.7 73.3 109.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#62

4-Bromofluorobenzene

Concen: 149.867 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

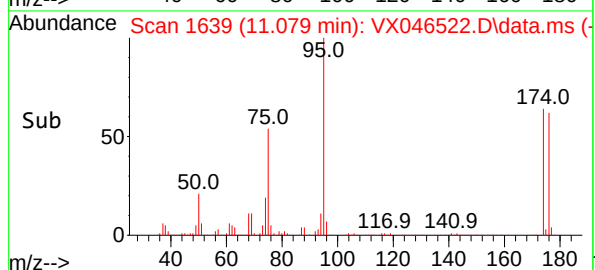
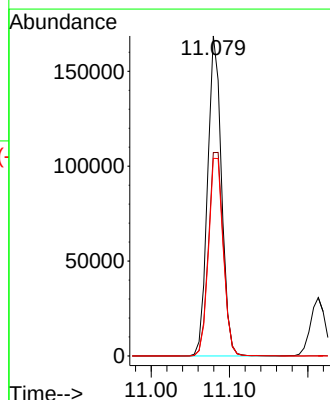
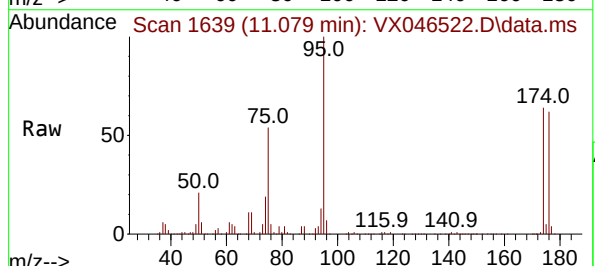
Tgt Ion: 95 Resp: 207701

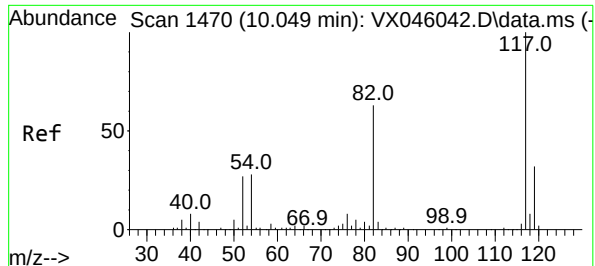
Ion Ratio Lower Upper

95 100

174 67.9 0.0 135.8

176 65.4 0.0 131.4





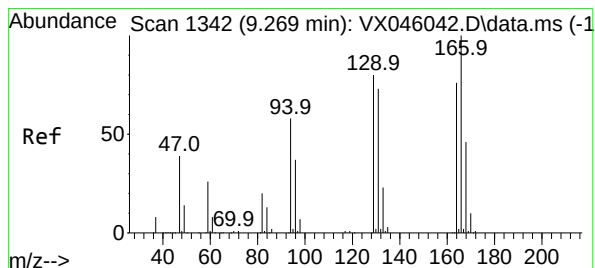
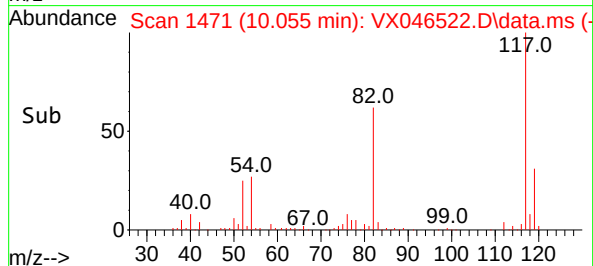
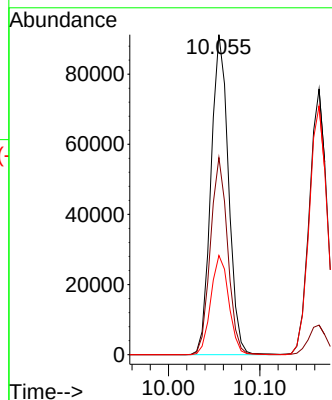
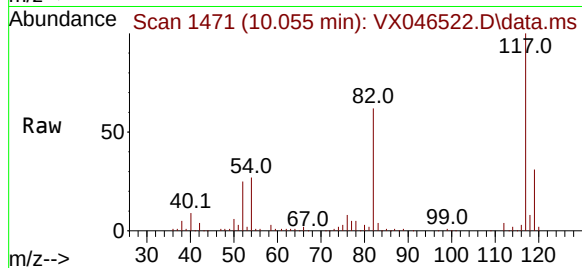
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:117 Resp: 121245
Ion Ratio Lower Upper
117 100
82 61.6 50.6 76.0
119 31.0 25.8 38.6

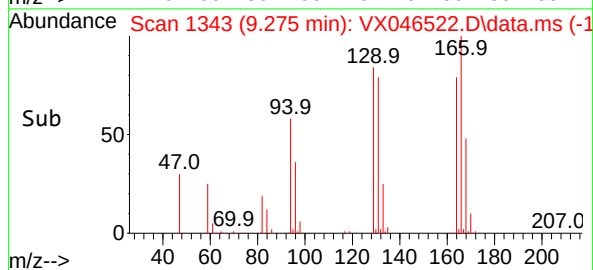
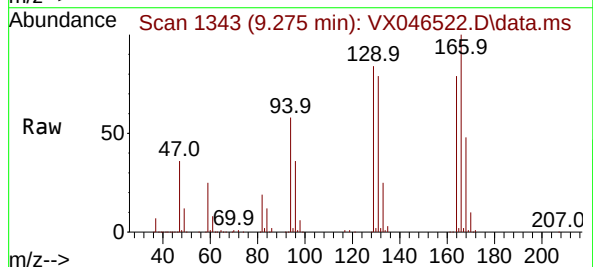
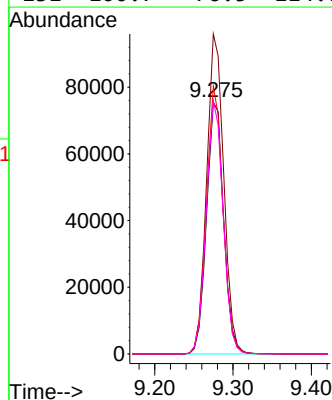
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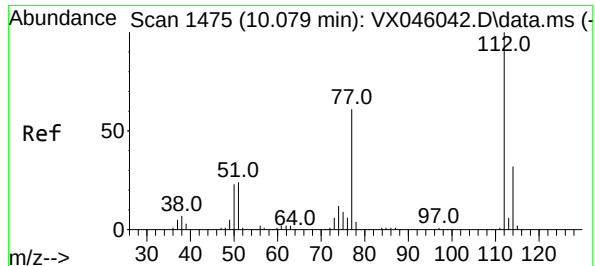
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 140.948 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:164 Resp: 114275
Ion Ratio Lower Upper
164 100
166 127.1 105.0 157.6
129 106.3 83.5 125.3
131 100.7 76.5 114.7





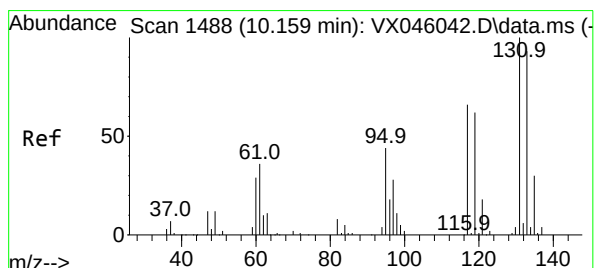
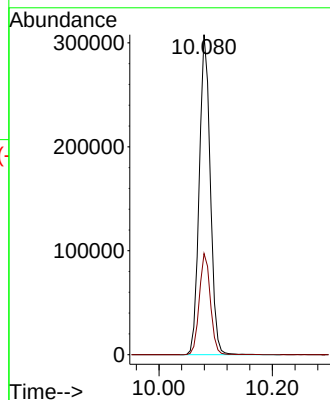
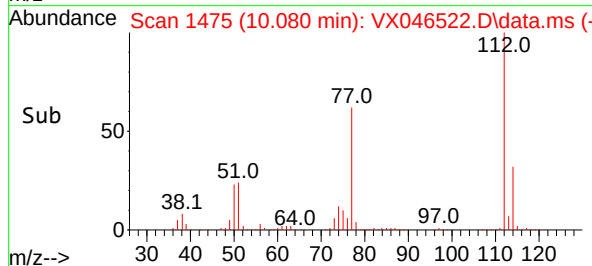
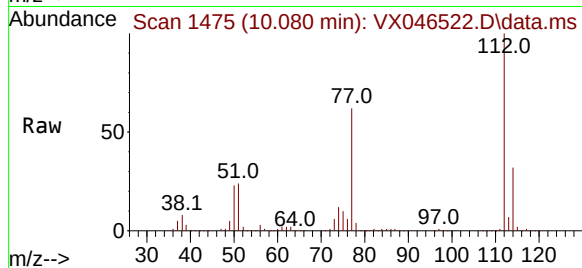
#65
Chlorobenzene
Concen: 145.311 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion:112 Resp: 41436
Ion Ratio Lower Upper
112 100
114 31.6 25.4 38.2

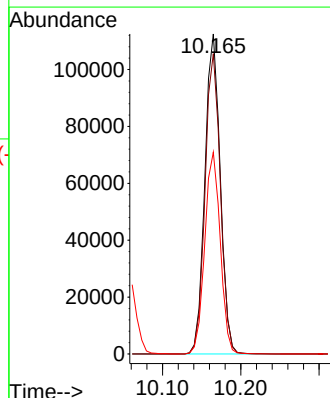
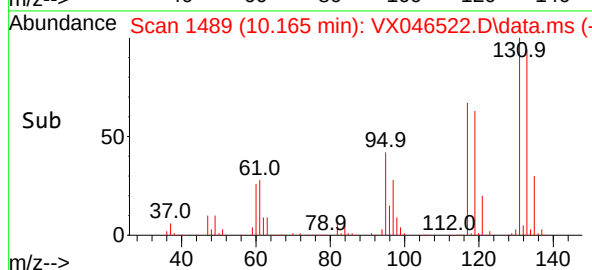
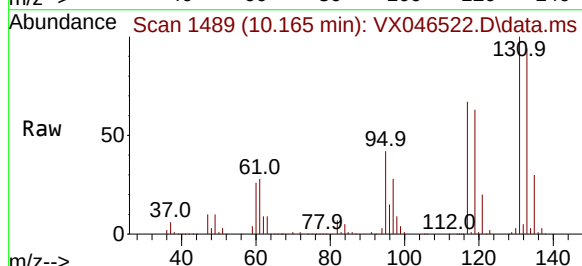
Manual Integrations
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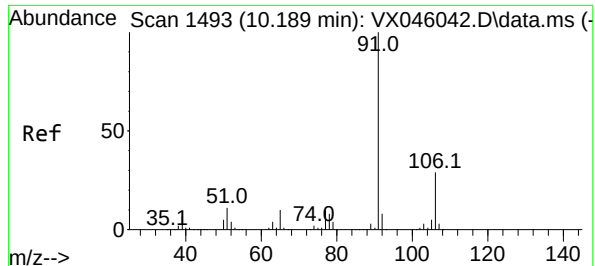
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 158.472 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:131 Resp: 152702
Ion Ratio Lower Upper
131 100
133 94.1 47.3 141.9
119 63.8 31.6 95.0





#67

Ethyl Benzene

Concen: 149.114 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150

Tgt Ion: 91 Resp: 742300

Ion Ratio Lower Upper

91 100

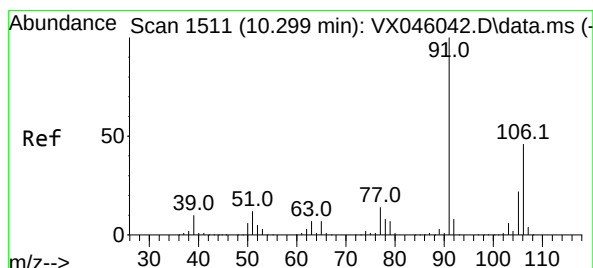
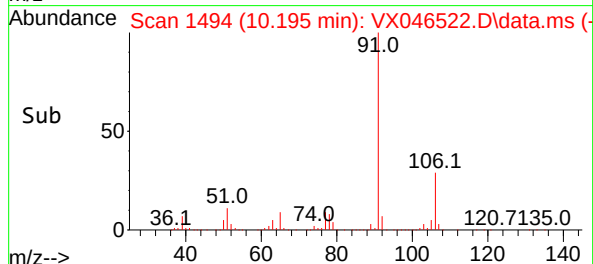
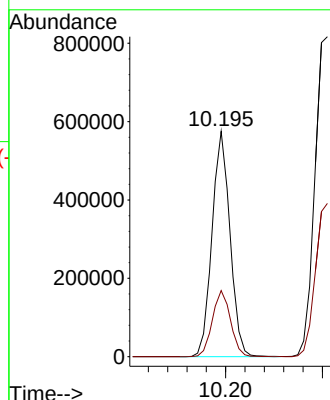
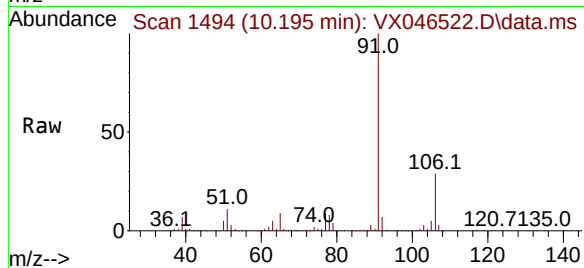
106 29.3 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 297.452 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX046522.D

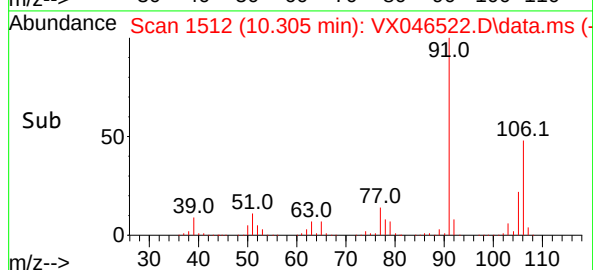
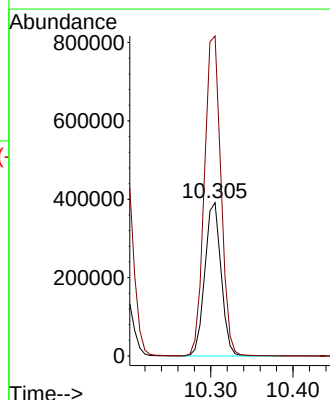
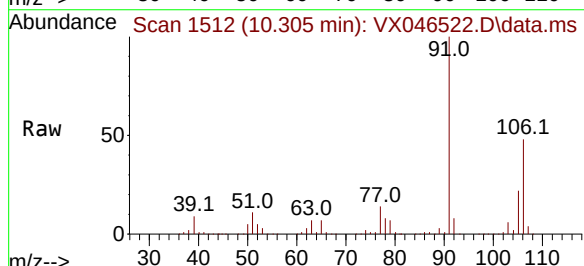
Acq: 06 Jun 2025 11:25

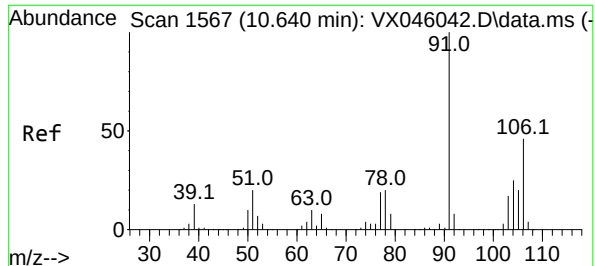
Tgt Ion:106 Resp: 537140

Ion Ratio Lower Upper

106 100

91 213.2 171.2 256.8





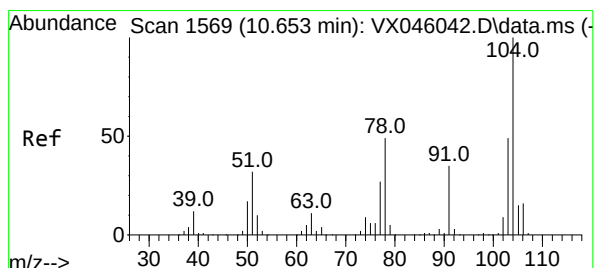
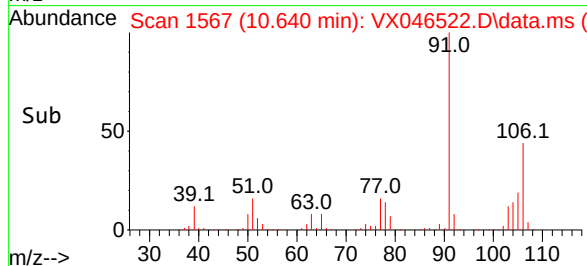
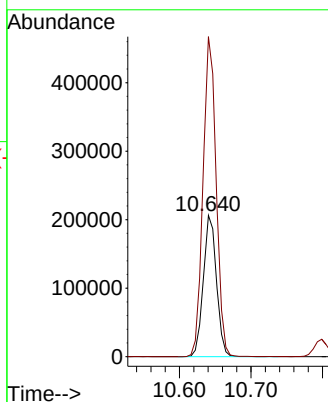
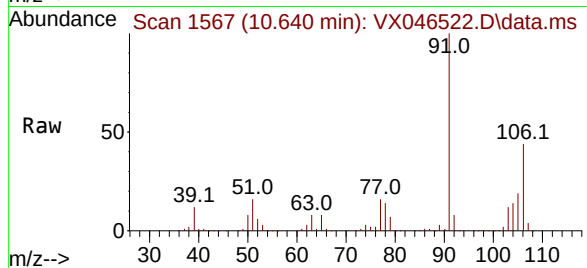
#69
o-Xylene
Concen: 150.865 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:106 Resp: 263508
Ion Ratio Lower Upper
106 100
91 226.4 112.7 338.1

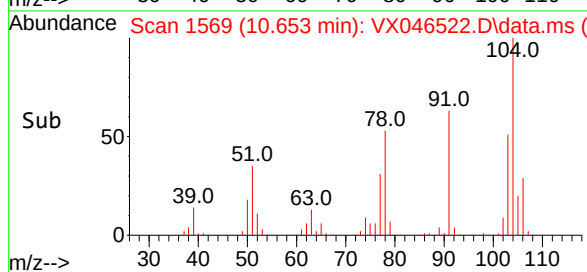
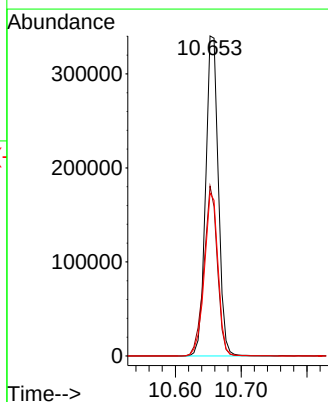
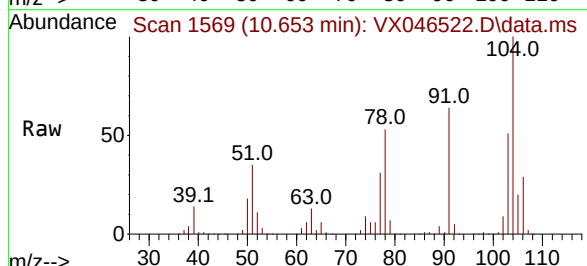
Manual Integrations
APPROVED

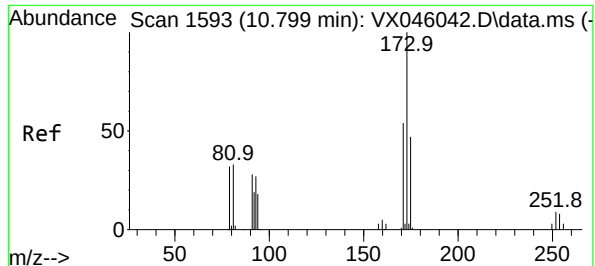
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#70
Styrene
Concen: 152.965 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

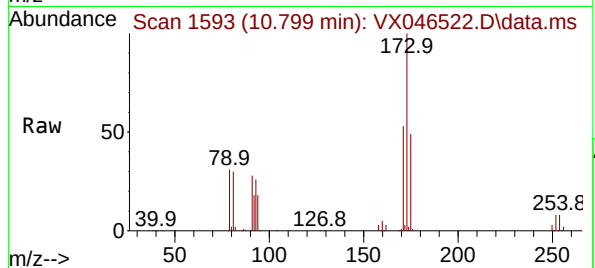
Tgt Ion:104 Resp: 457350
Ion Ratio Lower Upper
104 100
78 56.0 45.7 68.5
103 54.8 43.7 65.5





#71
Bromoform
Concen: 165.836 ug/l
RT: 10.799 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

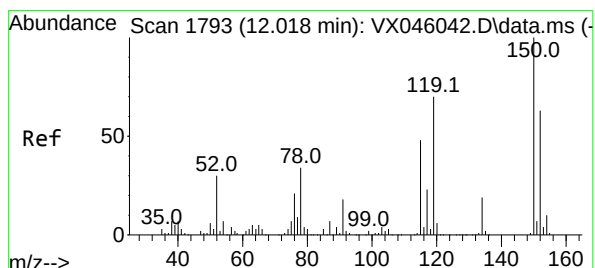
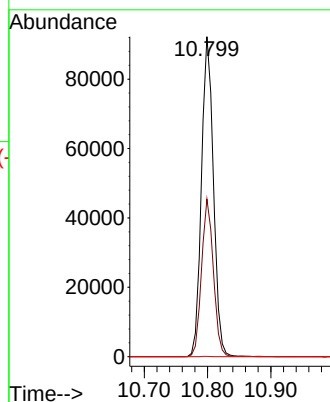
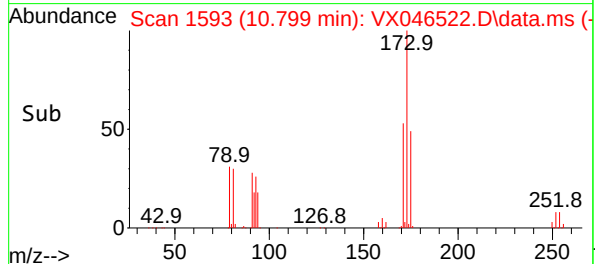
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:173 Resp: 12184
Ion Ratio Lower Upper
173 100
175 48.7 23.4 70.0
254 0.1 0.0 0.0

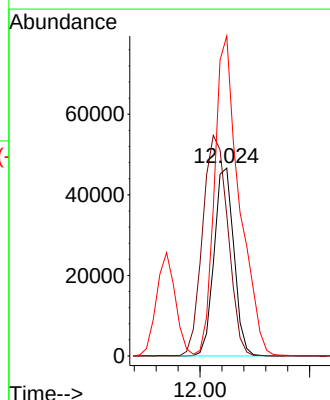
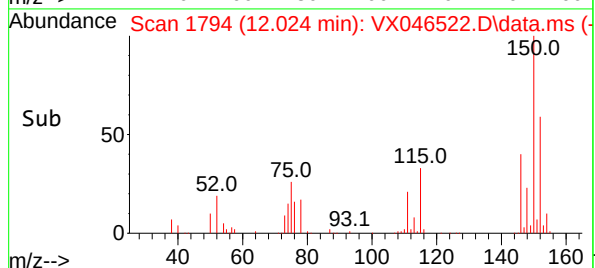
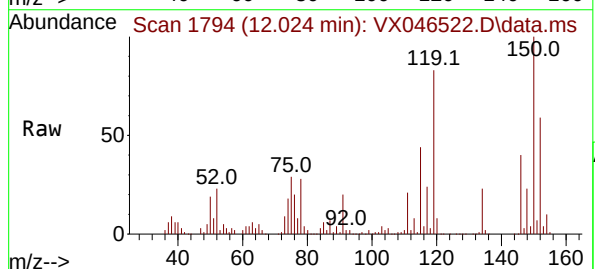
Manual Integrations
APPROVED

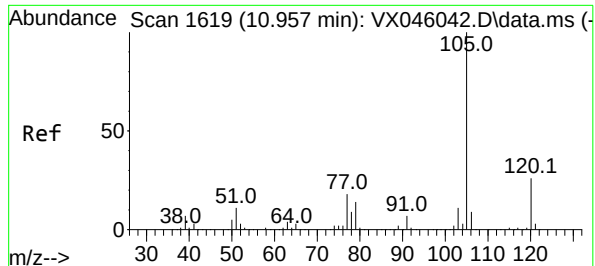
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

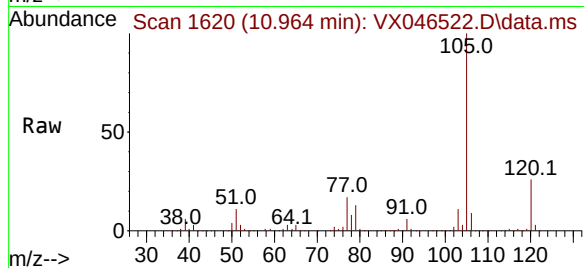
Tgt Ion:152 Resp: 58605
Ion Ratio Lower Upper
152 100
115 149.8 46.9 140.7#
150 212.6 0.0 351.0





#73
Isopropylbenzene
Concen: 155.114 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

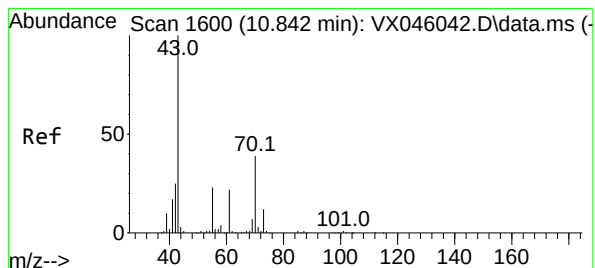
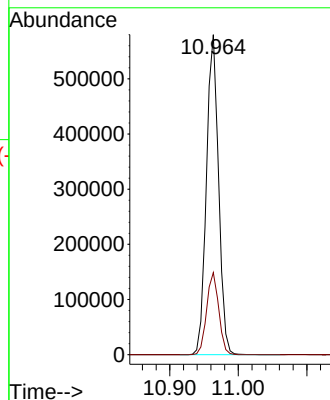
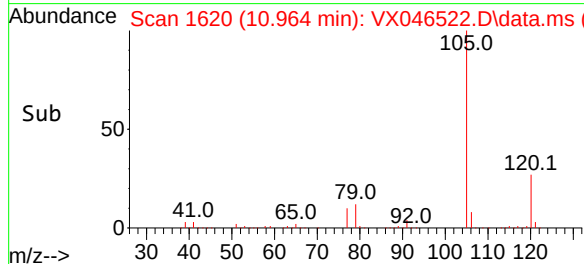
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:105 Resp: 714594
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.4

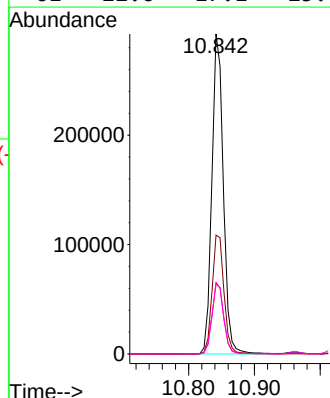
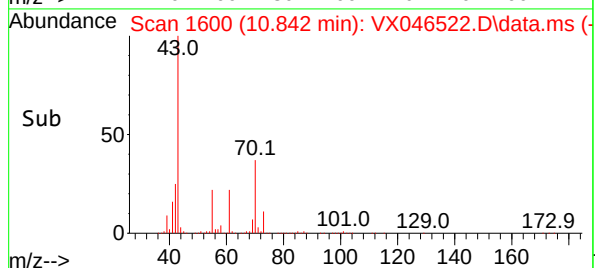
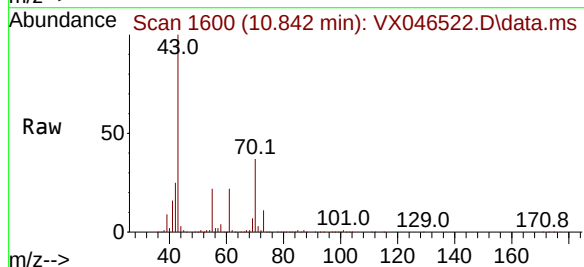
Manual Integrations
APPROVED

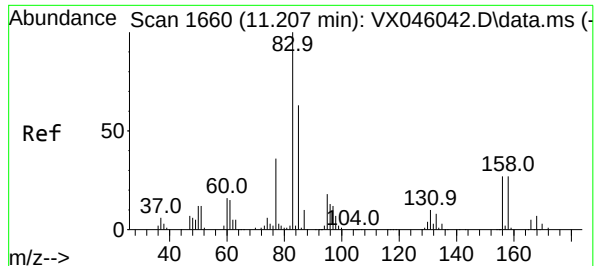
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 174.965 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 43 Resp: 354967
Ion Ratio Lower Upper
43 100
70 38.6 30.9 46.3
55 22.7 18.7 28.1
61 22.6 17.1 25.7





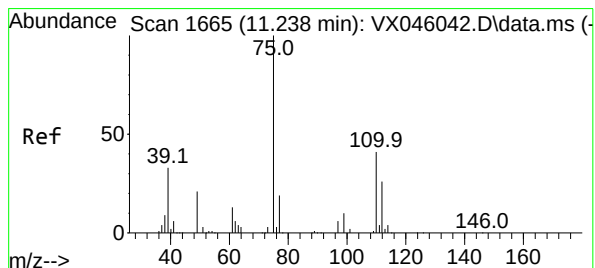
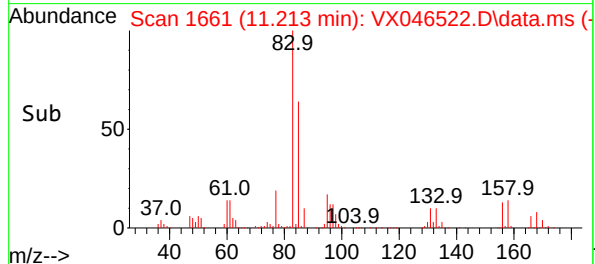
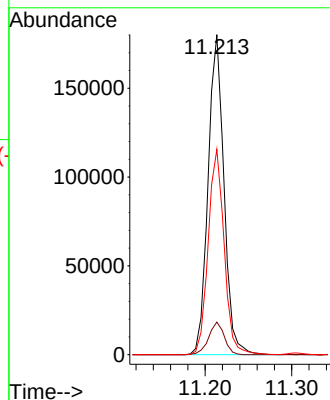
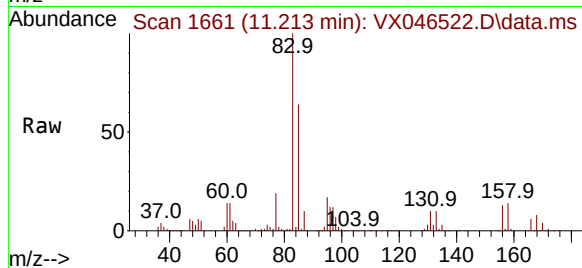
#75
1,1,2,2-Tetrachloroethane
Concen: 155.706 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC150

Tgt Ion: 83 Resp: 22960
Ion Ratio Lower Upper
83 100
131 10.1 5.0 14.9
85 64.5 31.9 95.7

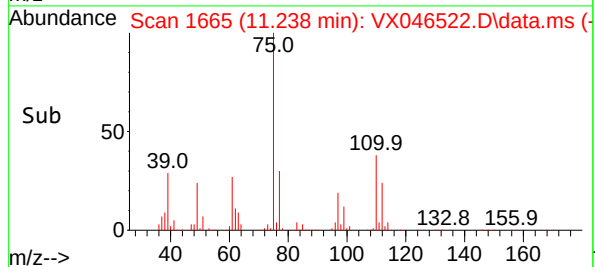
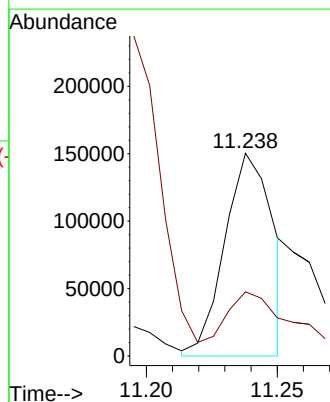
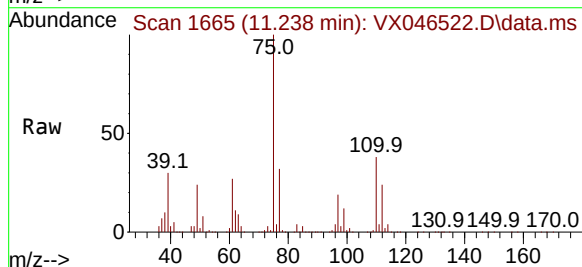
Manual Integrations
APPROVED

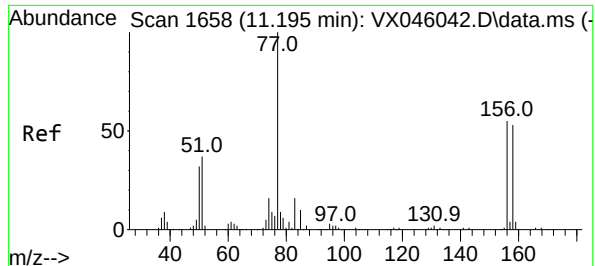
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#76
1,2,3-Trichloropropane
Concen: 152.081 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

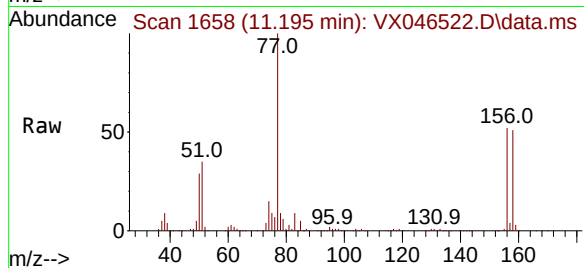
Tgt Ion: 75 Resp: 191913
Ion Ratio Lower Upper
75 100
77 44.4 20.5 61.5





#77
Bromobenzene
Concen: 152.540 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

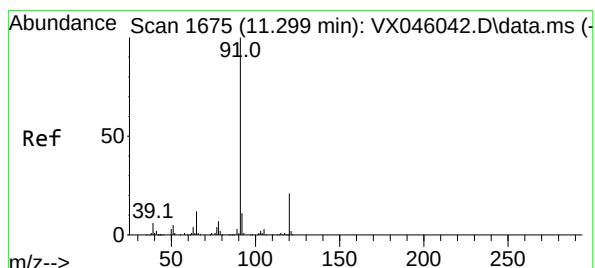
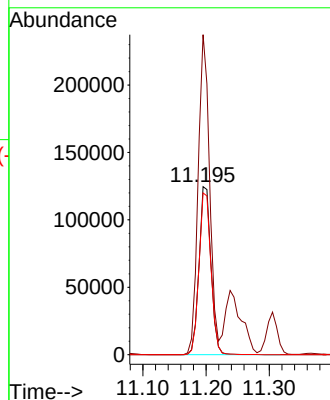
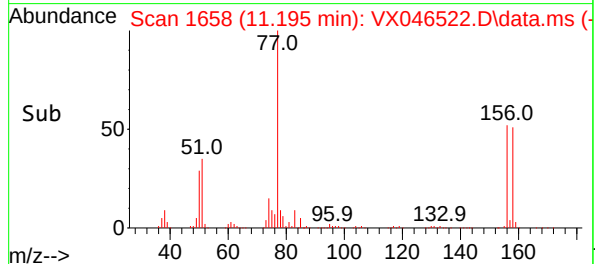
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150



Tgt Ion:156 Resp: 163111
Ion Ratio Lower Upper
156 100
77 183.5 92.8 278.3
158 97.2 48.8 146.3

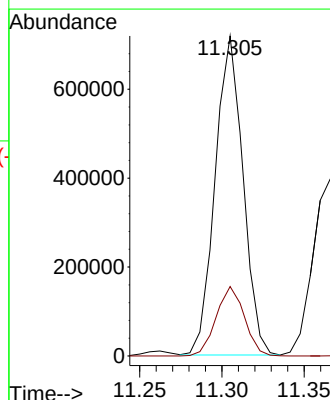
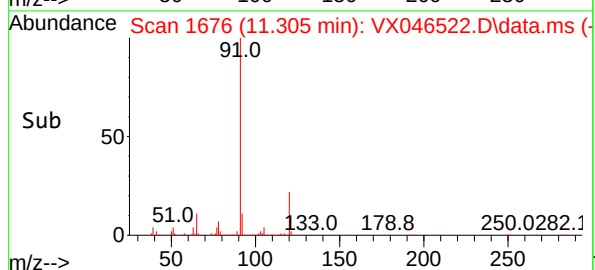
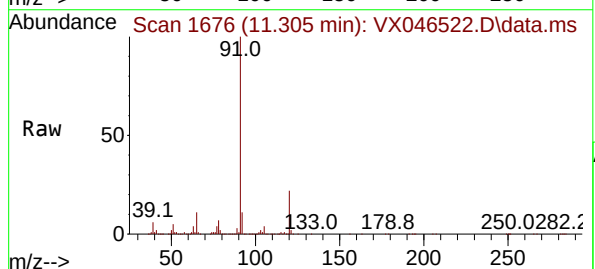
Manual Integrations
APPROVED

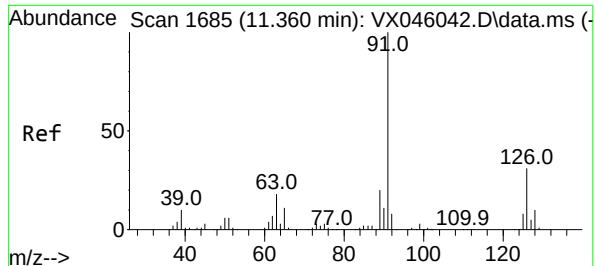
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 151.764 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 91 Resp: 846247
Ion Ratio Lower Upper
91 100
120 22.0 10.8 32.4





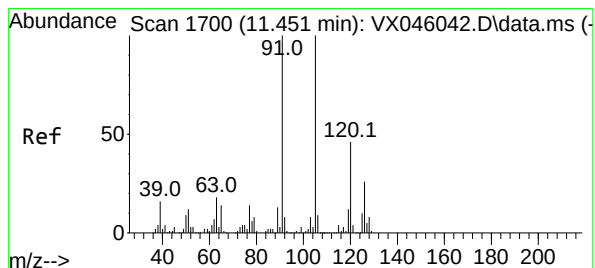
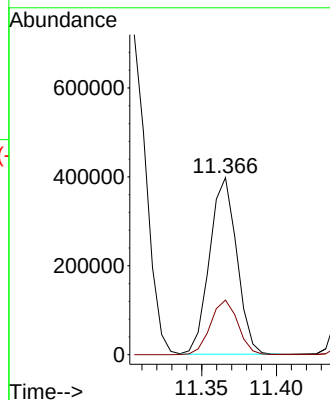
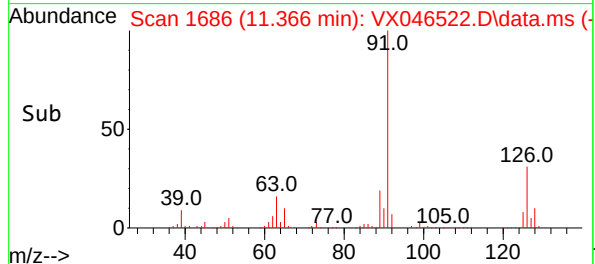
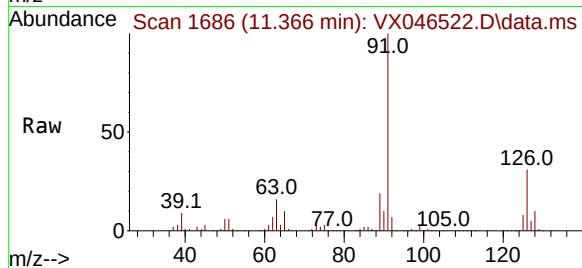
#79
2-Chlorotoluene
Concen: 149.837 ug/l
RT: 11.366 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 91 Resp: 503830
Ion Ratio Lower Upper
91 100
126 31.0 15.6 46.7

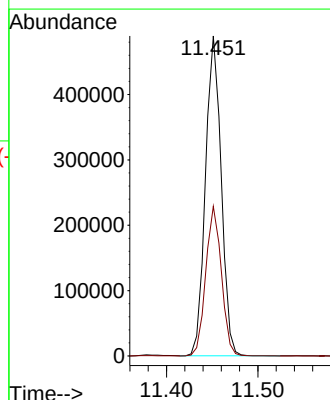
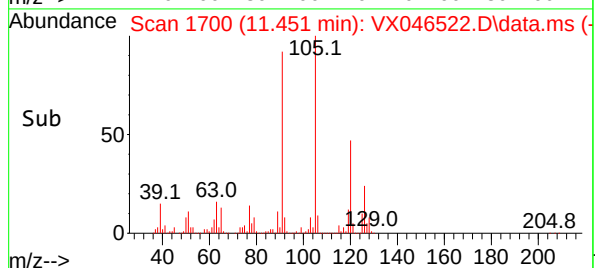
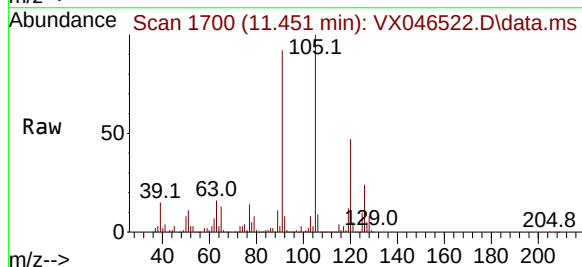
Manual Integrations
APPROVED

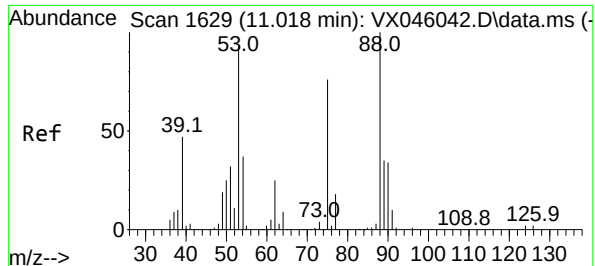
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#80
1,3,5-Trimethylbenzene
Concen: 151.781 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:105 Resp: 582683
Ion Ratio Lower Upper
105 100
120 46.5 23.1 69.2





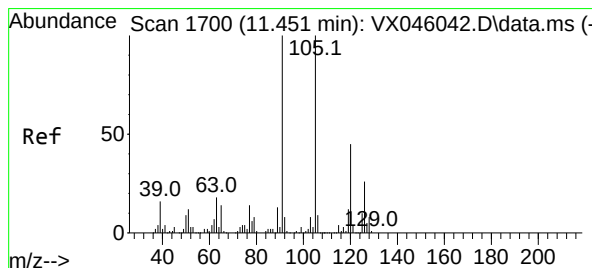
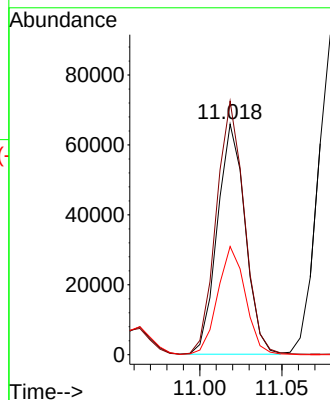
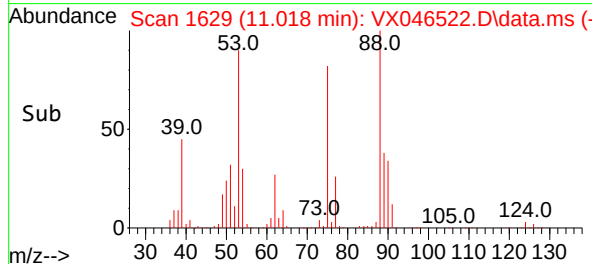
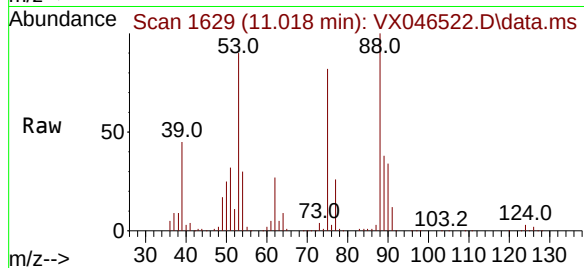
#81
trans-1,4-Dichloro-2-butene
Concen: 180.416 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion: 75 Resp: 77638
Ion Ratio Lower Upper
75 100
53 111.5 100.5 150.7
89 46.7 37.0 55.6

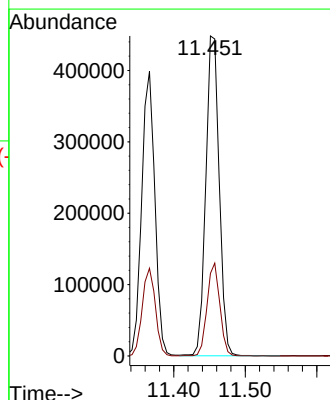
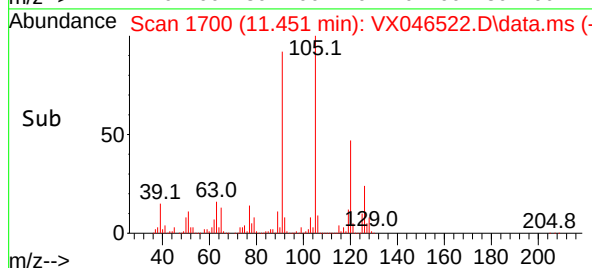
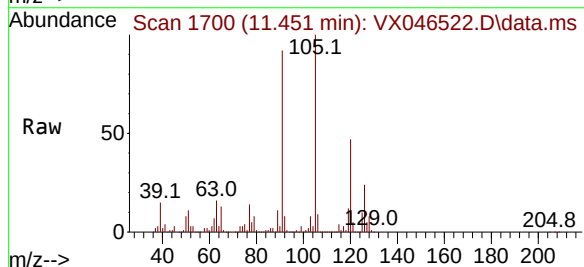
Manual Integrations
APPROVED

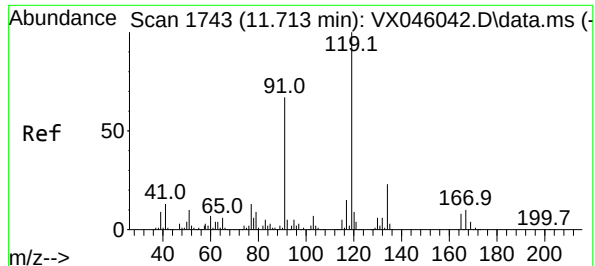
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 146.836 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion: 91 Resp: 585232
Ion Ratio Lower Upper
91 100
126 27.6 13.3 39.8





#83

tert-Butylbenzene

Concen: 156.630 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:119 Resp: 61211

Ion Ratio Lower Upper

119 100

91 61.5 32.9 98.7

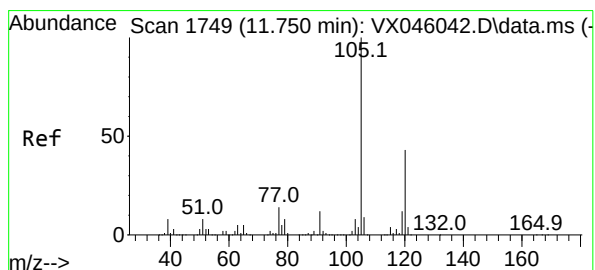
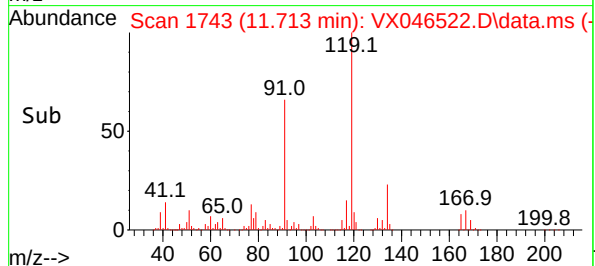
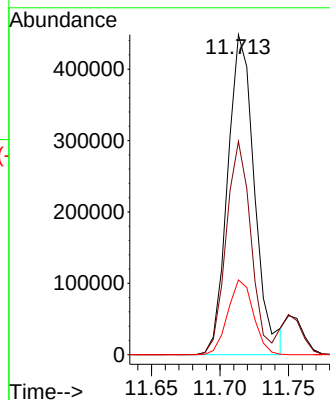
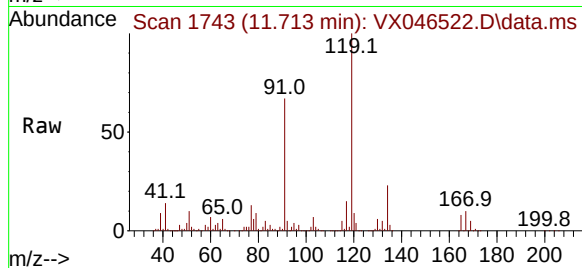
134 22.3 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 151.929 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX046522.D

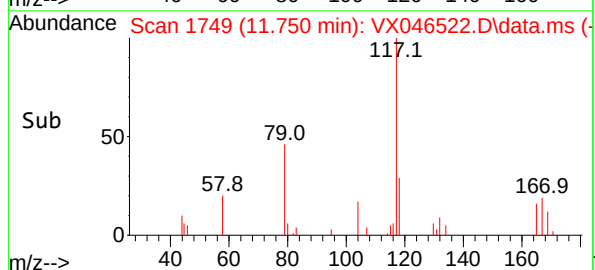
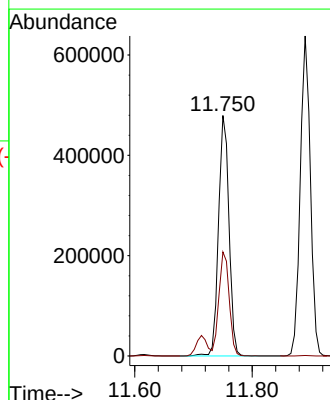
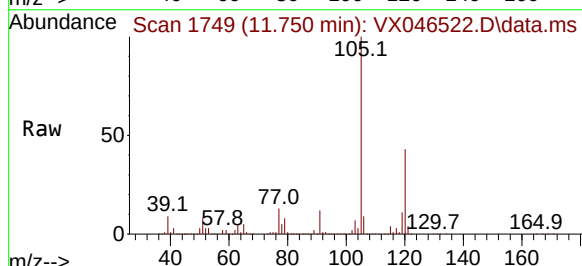
Acq: 06 Jun 2025 11:25

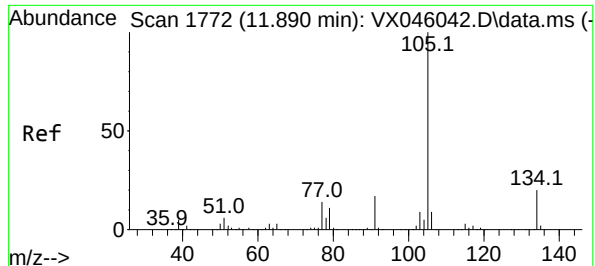
Tgt Ion:105 Resp: 590035

Ion Ratio Lower Upper

105 100

120 42.5 21.2 63.6





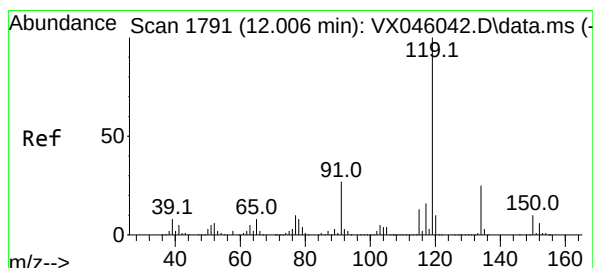
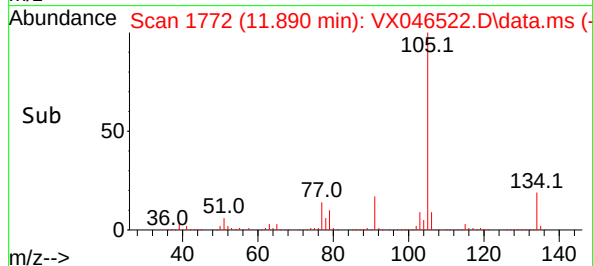
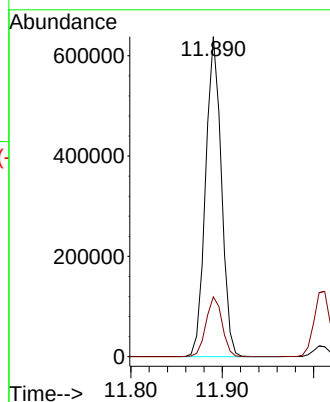
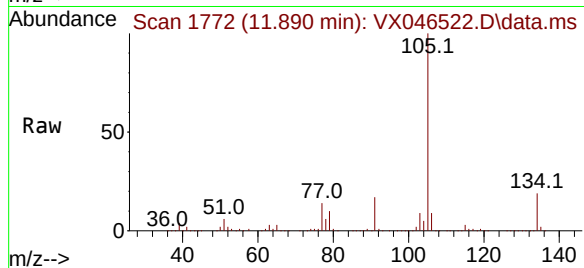
#85
sec-Butylbenzene
Concen: 151.730 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC150

Tgt Ion:105 Resp: 761909
Ion Ratio Lower Upper
105 100
134 19.2 9.7 29.1

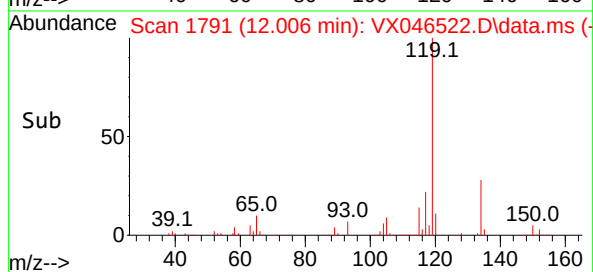
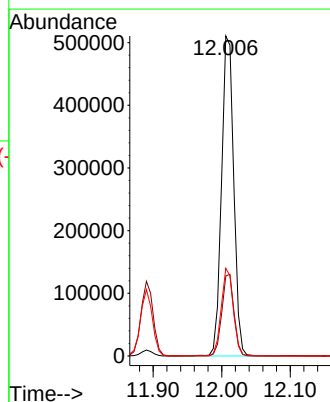
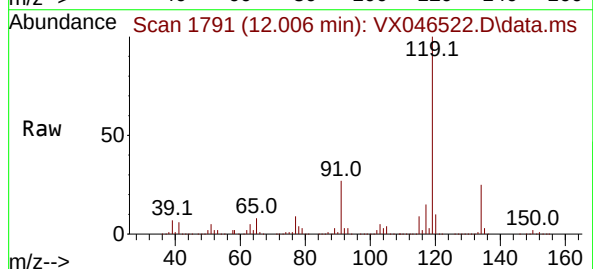
Manual Integrations
APPROVED

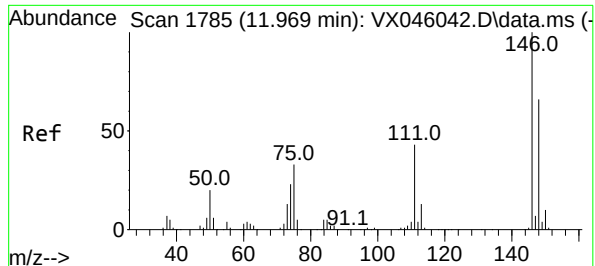
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 150.146 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Tgt Ion:119 Resp: 628539
Ion Ratio Lower Upper
119 100
134 25.4 12.5 37.5
91 26.7 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 147.362 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:146 Resp: 305990

Ion Ratio Lower Upper

146 100

111 44.5 22.1 66.3

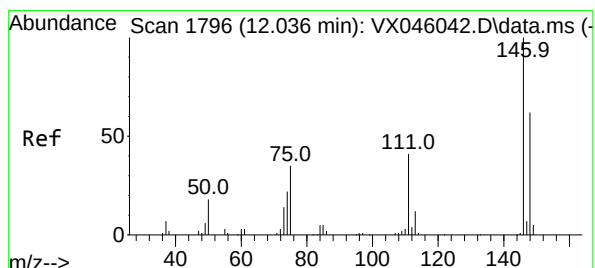
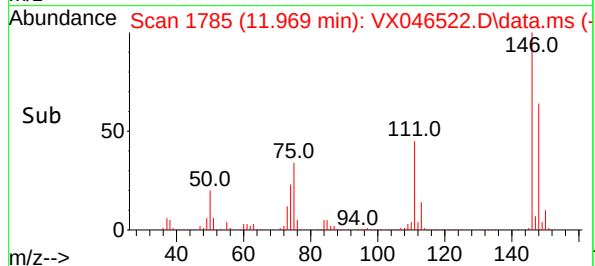
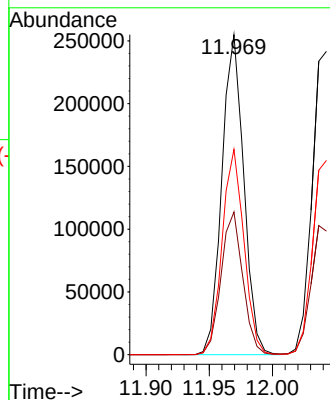
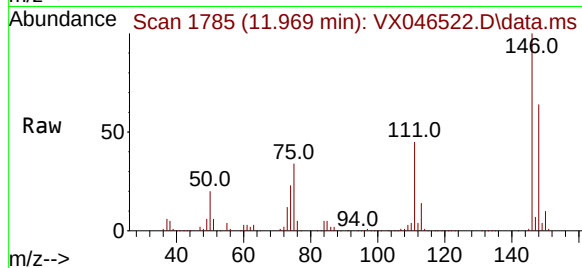
148 63.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 143.149 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

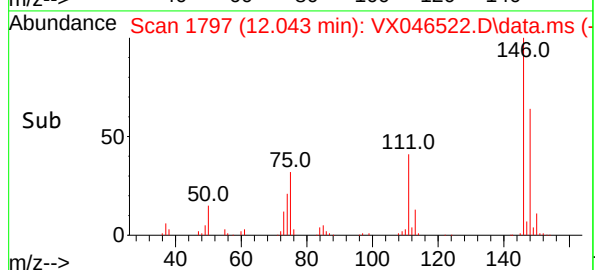
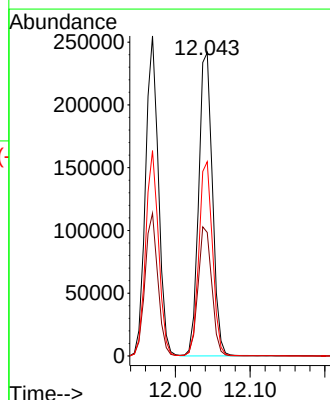
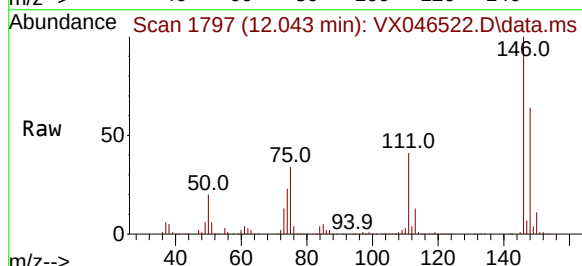
Tgt Ion:146 Resp: 308002

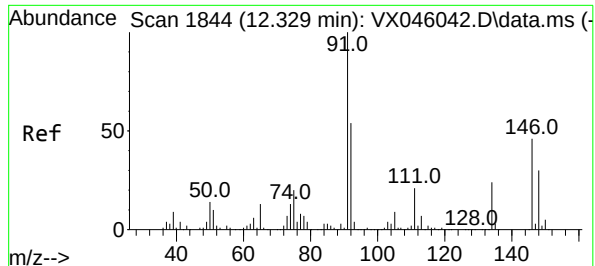
Ion Ratio Lower Upper

146 100

111 42.2 21.3 63.9

148 63.2 31.9 95.5





#89

n-Butylbenzene

Concen: 149.115 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion: 91 Resp: 613010

Ion Ratio Lower Upper

91 100

92 54.1 26.9 80.7

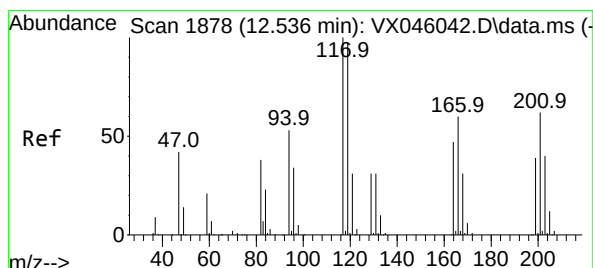
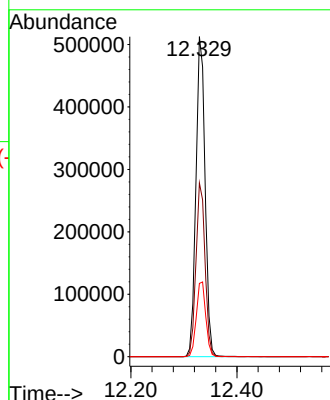
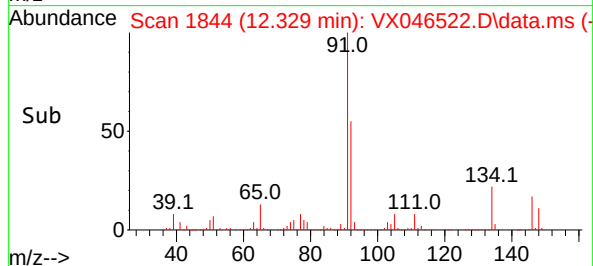
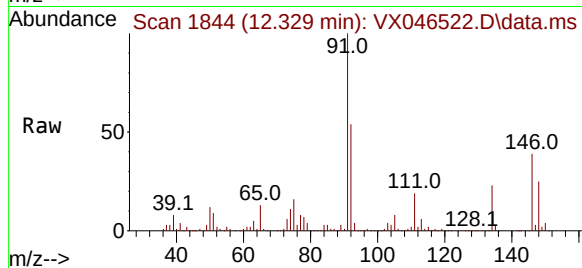
134 24.1 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 161.336 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046522.D

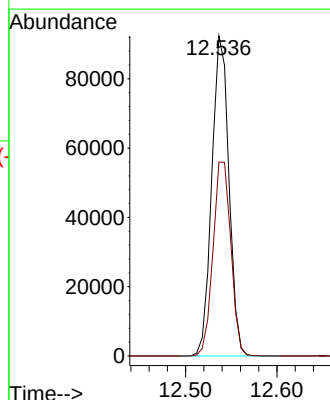
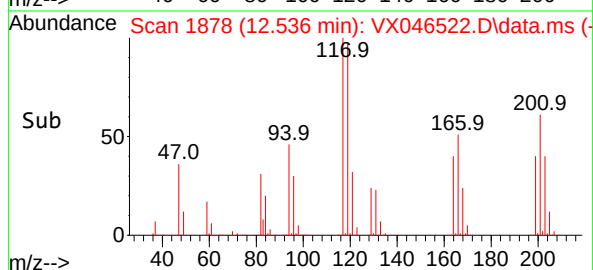
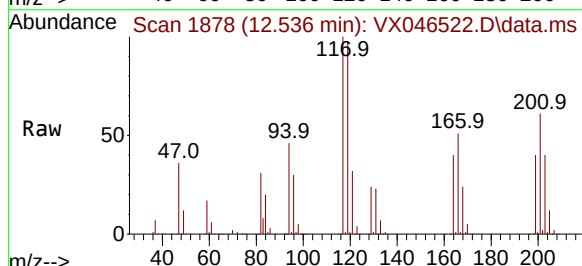
Acq: 06 Jun 2025 11:25

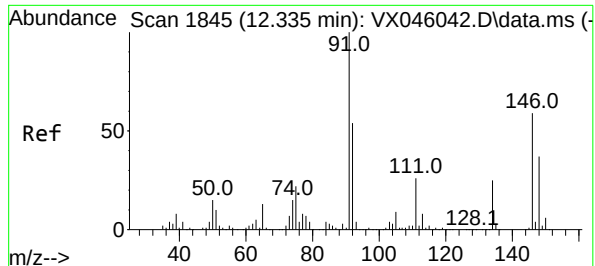
Tgt Ion:117 Resp: 120040

Ion Ratio Lower Upper

117 100

201 63.4 31.6 94.7





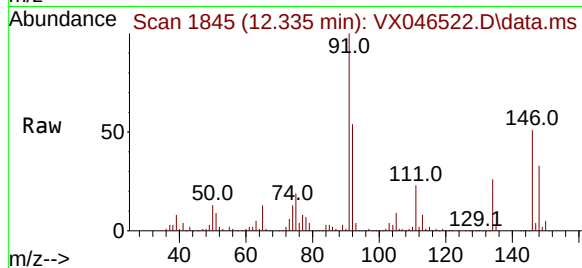
#91
1,2-Dichlorobenzene
Concen: 148.701 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC150



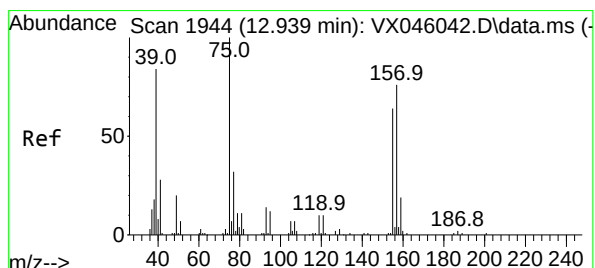
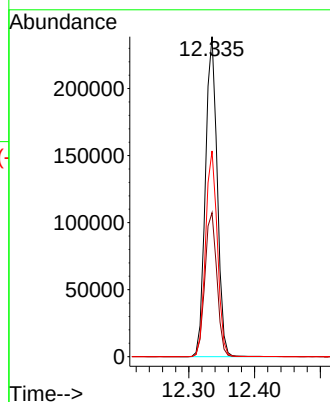
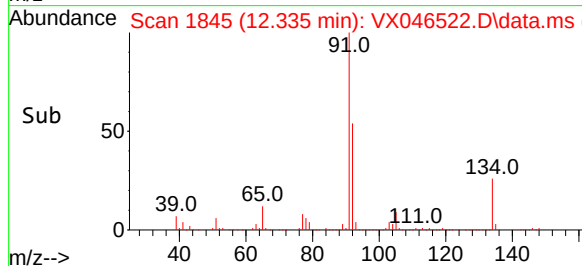
Tgt Ion:146 Resp: 29804
Ion Ratio Lower Upper
146 100
111 45.7 22.4 67.3
148 64.4 31.6 94.8

Manual Integrations

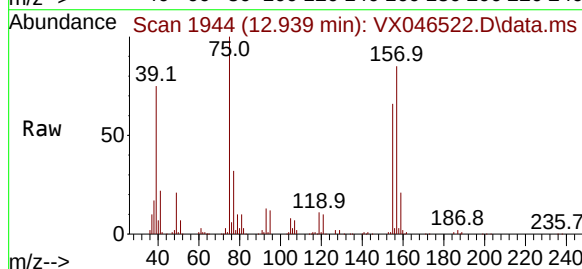
APPROVED

Reviewed By :John Carlone 06/06/2025

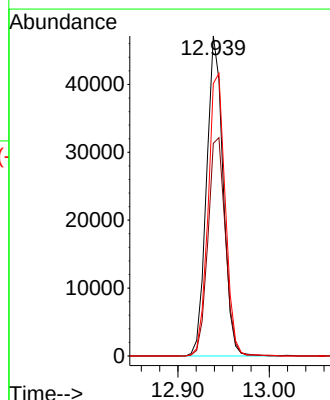
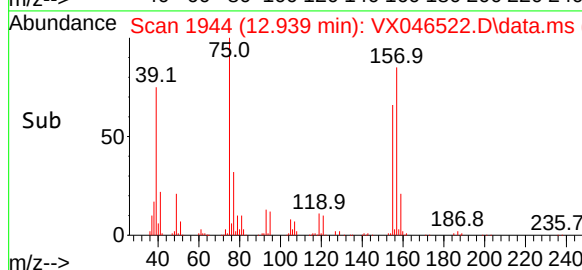
Supervised By :Mahesh Dadoda 06/09/2025

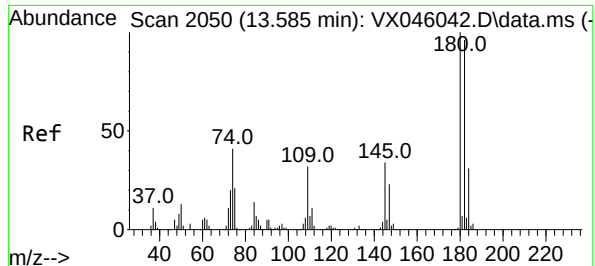


#92
1,2-Dibromo-3-Chloropropane
Concen: 179.177 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX046522.D
Acq: 06 Jun 2025 11:25



Tgt Ion: 75 Resp: 59166
Ion Ratio Lower Upper
75 100
155 71.8 34.9 104.8
157 91.3 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 153.577 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:180 Resp: 20998

Ion Ratio Lower Upper

180 100

182 97.0 47.9 143.8

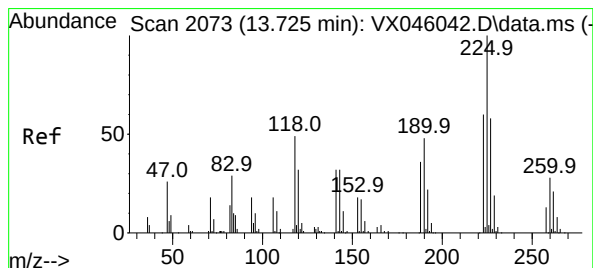
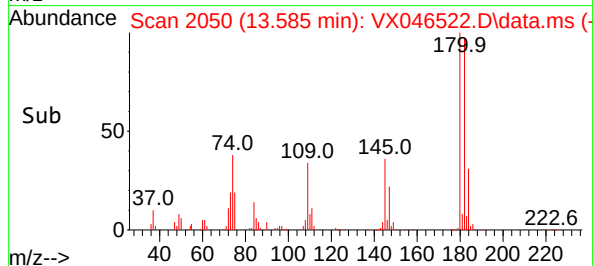
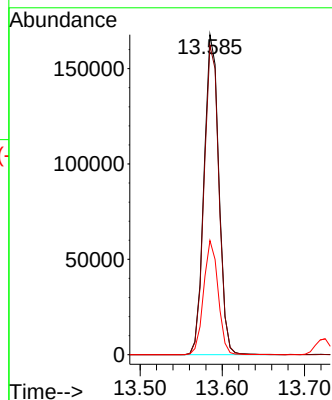
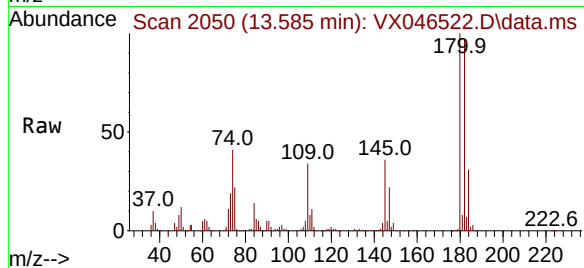
145 35.0 17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 145.277 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

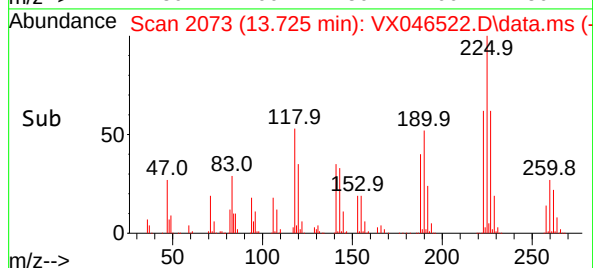
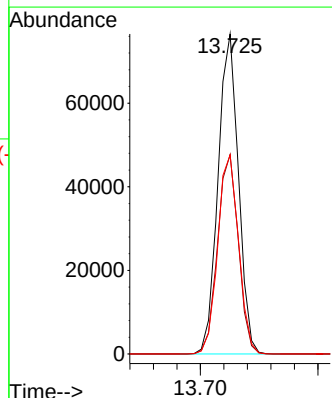
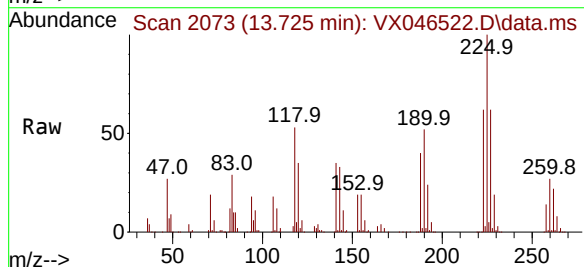
Tgt Ion:225 Resp: 92311

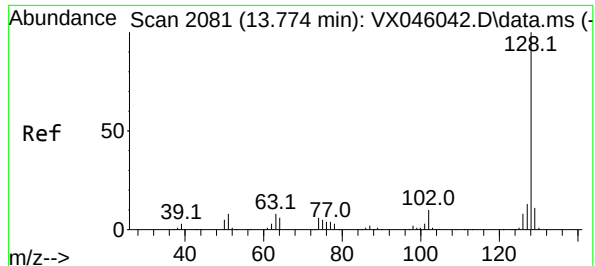
Ion Ratio Lower Upper

225 100

223 63.2 30.8 92.4

227 63.5 30.9 92.7





#95

Naphthalene

Concen: 170.506 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC150

Tgt Ion:128 Resp: 739300

Ion Ratio Lower Upper

128 100

127 12.8 10.4 15.6

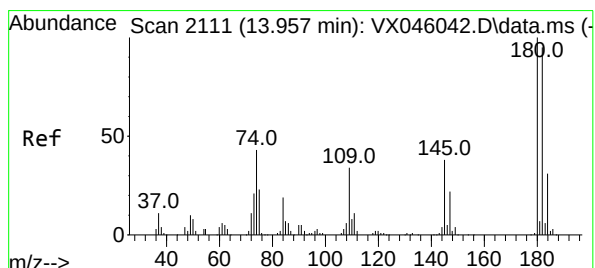
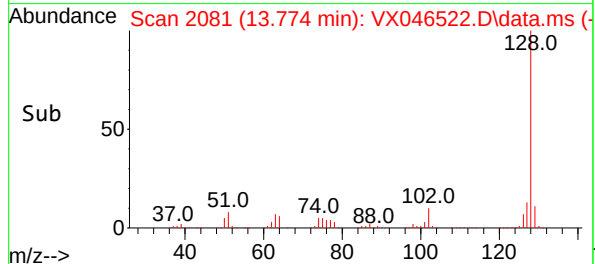
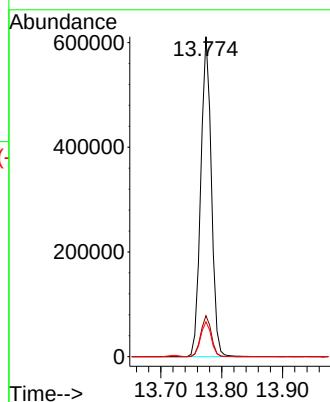
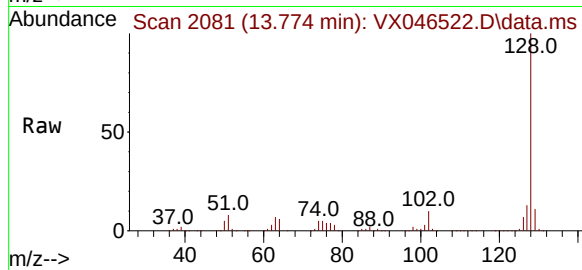
129 11.0 8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#96

1,2,3-Trichlorobenzene

Concen: 153.606 ug/l

RT: 13.957 min Scan# 2111

Delta R.T. 0.000 min

Lab File: VX046522.D

Acq: 06 Jun 2025 11:25

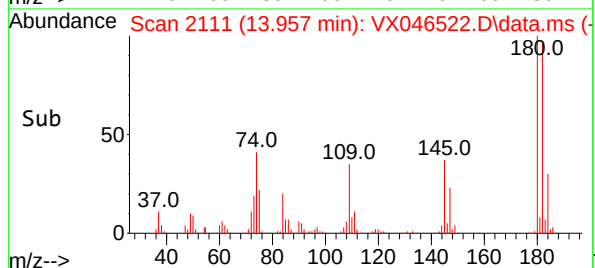
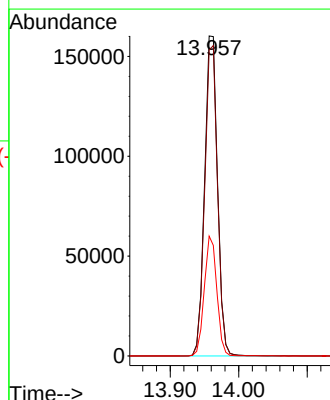
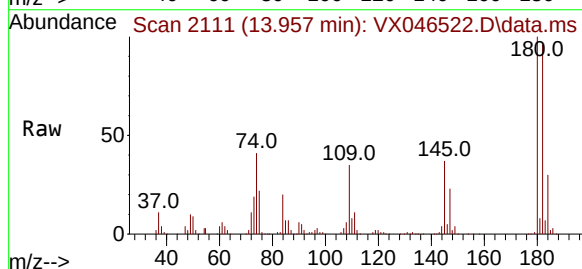
Tgt Ion:180 Resp: 210596

Ion Ratio Lower Upper

180 100

182 96.1 47.8 143.3

145 36.4 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046524.D
 Acq On : 06 Jun 2025 12:57
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	92377	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	161412	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	144029	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	72344	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	1.184	85	1548	1.207	ug/l	89
3) Chloromethane	1.306	50	1317	1.128	ug/l	95
4) Vinyl Chloride	1.386	62	1255	1.078	ug/l #	83
6) Chloroethane	1.697	64	940	1.245	ug/l #	76
7) Trichlorofluoromethane	1.904	101	1882	0.977	ug/l	95
8) Diethyl Ether	2.136	74	762	1.120	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.349	101	1288	1.062	ug/l	95
12) 1,1-Dichloroethene	2.337	96	1174	1.070	ug/l	78
14) Allyl chloride	2.678	41	2371	1.101	ug/l	94
15) Acrylonitrile	3.080	53	3158	4.580	ug/l	90
16) Acetone	2.392	43	5228	12.546	ug/l	99
17) Carbon Disulfide	2.526	76	4273	2.030	ug/l	100
18) Methyl Acetate	2.721	43	1631	0.833	ug/l #	90
19) Methyl tert-butyl Ether	3.123	73	3460	0.902	ug/l	92
20) Methylene Chloride	2.806	84	1604	1.217	ug/l	93
21) trans-1,2-Dichloroethene	3.105	96	1451	1.250	ug/l	94
22) Diisopropyl ether	3.763	45	3727	0.878	ug/l #	1
23) Vinyl Acetate	3.739	43	15142	4.618	ug/l #	93
24) 1,1-Dichloroethane	3.617	63	2366	1.000	ug/l #	89
25) 2-Butanone	4.598	43	4468	4.884	ug/l #	87
26) 2,2-Dichloropropane	4.483	77	1663	0.947	ug/l	86
27) cis-1,2-Dichloroethene	4.507	96	1600	1.120	ug/l	94
28) Bromochloromethane	4.928	49	1200	1.063	ug/l #	89
29) Tetrahydrofuran	5.037	42	2828	4.895	ug/l	89
30) Chloroform	5.098	83	2492	1.005	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	2090	0.985	ug/l #	53
36) 1,1-Dichloropropene	5.702	75	2130	1.256	ug/l #	70
37) Ethyl Acetate	4.739	43	1146m	0.693	ug/l	
38) Carbon Tetrachloride	5.696	117	2113	1.113	ug/l #	65
39) Methylcyclohexane	7.391	83	2339	1.169	ug/l #	72
40) Benzene	6.043	78	4913	1.029	ug/l	99
41) Methacrylonitrile	4.952	41	901	0.877	ug/l #	43
42) 1,2-Dichloroethane	6.104	62	1955	0.984	ug/l	82
43) Isopropyl Acetate	6.348	43	2493	0.864	ug/l #	92
44) Trichloroethene	7.141	130	1537	1.267	ug/l	91
45) 1,2-Dichloropropane	7.433	63	1158	0.940	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046524.D
 Acq On : 06 Jun 2025 12:57
 Operator : JC/MD
 Sample : VSTDICC001
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC001

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:43:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:38:39 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Dibromomethane	7.592	93	938	1.012	ug/l	92
47) Bromodichloromethane	7.830	83	1724	0.905	ug/l #	91
48) Methyl methacrylate	7.714	41	1276	0.860	ug/l	94
49) 1,4-Dioxane	7.677	88	286	14.408	ug/l #	79
51) 4-Methyl-2-Pentanone	8.573	43	7935	4.328	ug/l	98
52) Toluene	8.720	92	3027	1.032	ug/l	94
53) t-1,3-Dichloropropene	8.988	75	1550	0.907	ug/l	94
54) cis-1,3-Dichloropropene	8.378	75	1831	0.964	ug/l	91
55) 1,1,2-Trichloroethane	9.159	97	1069	0.908	ug/l #	82
56) Ethyl methacrylate	9.122	69	1471	0.812	ug/l	94
57) 1,3-Dichloropropane	9.317	76	2109	1.014	ug/l	95
58) 2-Chloroethyl Vinyl ether	8.250	63	4480	4.540	ug/l	97
59) 2-Hexanone	9.439	43	5937	4.515	ug/l	91
60) Dibromochloromethane	9.524	129	1307	0.944	ug/l	89
61) 1,2-Dibromoethane	9.616	107	1355	1.105	ug/l	89
64) Tetrachloroethene	9.274	164	1182	1.227	ug/l	90
65) Chlorobenzene	10.079	112	3905	1.153	ug/l	97
66) 1,1,1,2-Tetrachloroethane	10.165	131	1042	0.910	ug/l #	59
67) Ethyl Benzene	10.195	91	6238	1.055	ug/l #	89
68) m/p-Xylenes	10.305	106	4454	2.076	ug/l	94
69) o-Xylene	10.640	106	2072	0.999	ug/l	96
70) Styrene	10.658	104	3482	0.980	ug/l	95
71) Bromoform	10.805	173	824	0.944	ug/l #	95
73) Isopropylbenzene	10.963	105	5637	0.991	ug/l	99
74) N-amyl acetate	10.847	43	2060	0.823	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.213	83	1661	0.912	ug/l	86
76) 1,2,3-Trichloropropane	11.244	75	1578m	1.013	ug/l	
77) Bromobenzene	11.207	156	1386	1.050	ug/l	94
78) n-propylbenzene	11.305	91	7308	1.062	ug/l	92
79) 2-Chlorotoluene	11.366	91	4466	1.076	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	4806	1.014	ug/l	96
82) 4-Chlorotoluene	11.457	91	5603	1.139	ug/l	98
83) tert-Butylbenzene	11.713	119	4751	0.985	ug/l	97
84) 1,2,4-Trimethylbenzene	11.756	105	4928	1.028	ug/l	99
85) sec-Butylbenzene	11.890	105	6450	1.041	ug/l	99
86) p-Isopropyltoluene	12.012	119	5657	1.095	ug/l	96
87) 1,3-Dichlorobenzene	11.969	146	3045	1.188	ug/l	96
88) 1,4-Dichlorobenzene	12.036	146	3503m	1.319	ug/l	
89) n-Butylbenzene	12.335	91	6072	1.197	ug/l	97
90) Hexachloroethane	12.536	117	987	1.075	ug/l	88
91) 1,2-Dichlorobenzene	12.335	146	2761	1.116	ug/l	94
92) 1,2-Dibromo-3-Chloropr...	12.945	75	345	0.846	ug/l	84
93) 1,2,4-Trichlorobenzene	13.591	180	2189	1.297	ug/l	92
94) Hexachlorobutadiene	13.725	225	1006	1.283	ug/l	97
95) Naphthalene	13.780	128	5474	1.023	ug/l	99
96) 1,2,3-Trichlorobenzene	13.963	180	2171	1.283	ug/l	96

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

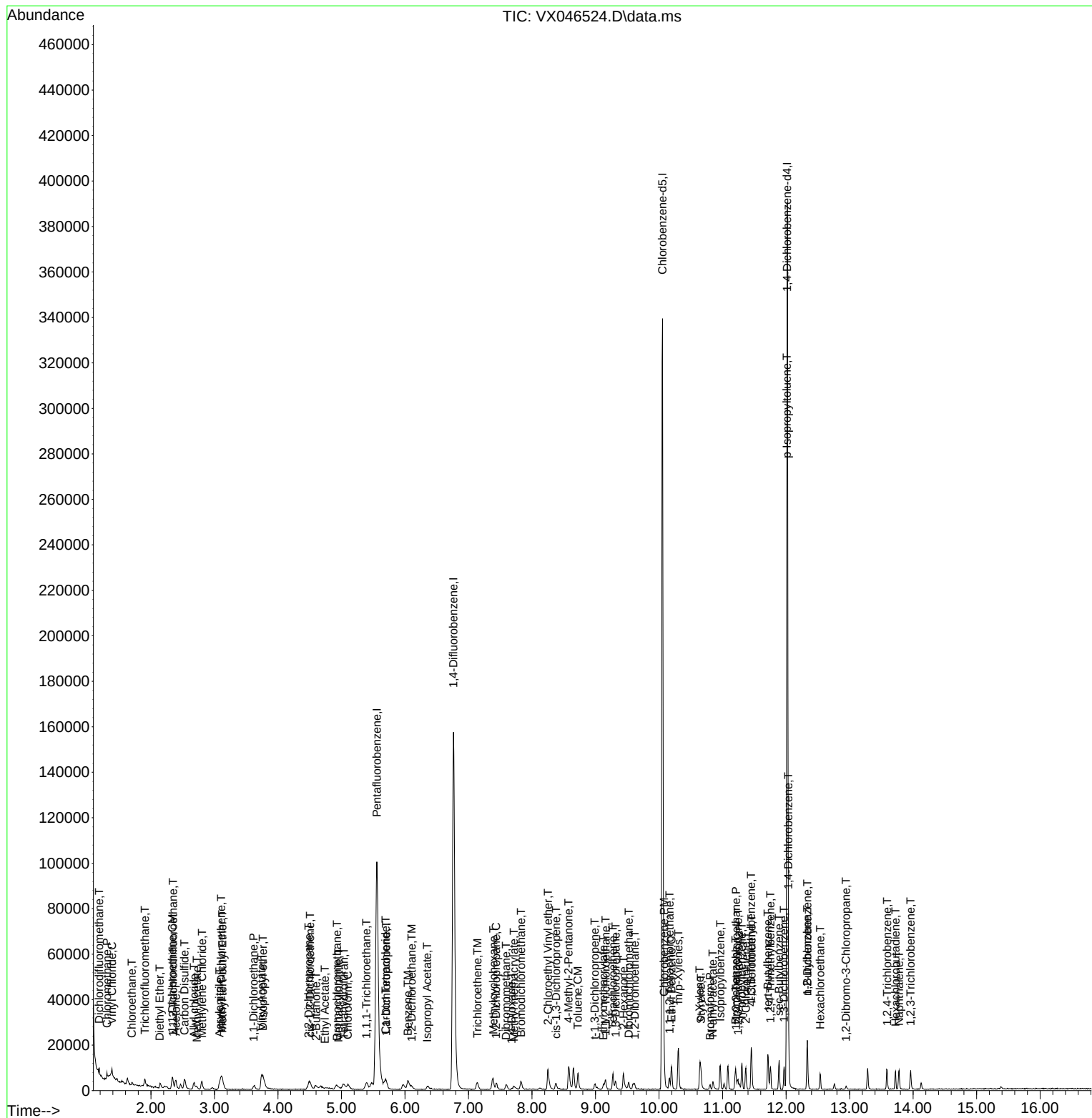
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046524.D
Acq On : 06 Jun 2025 12:57
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

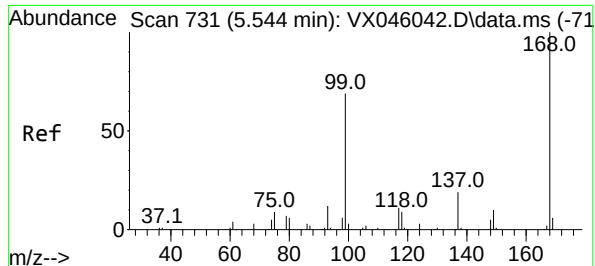
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Quant Time: Jun 06 16:43:02 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:38:39 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

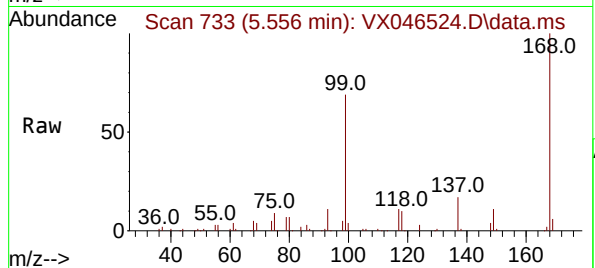
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

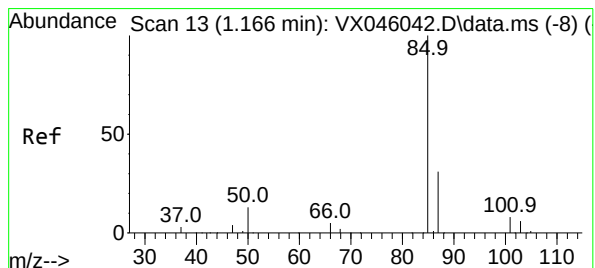
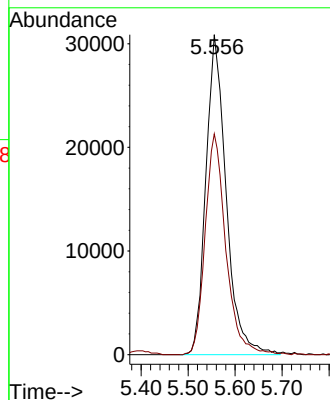
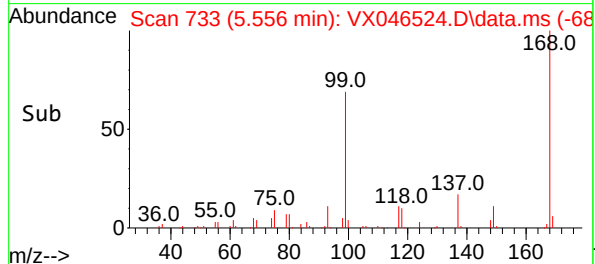
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:168 Resp: 9237
Ion Ratio Lower Upper
168 100
99 69.0 54.9 82.3

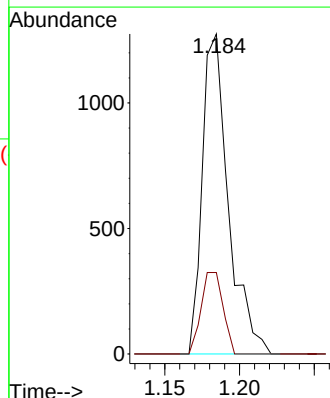
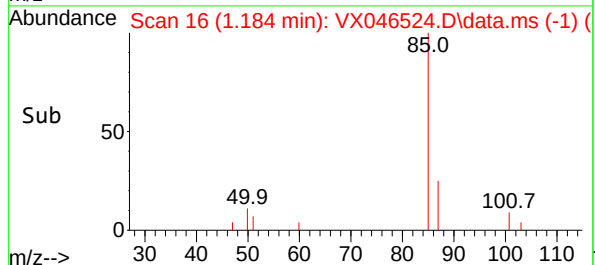
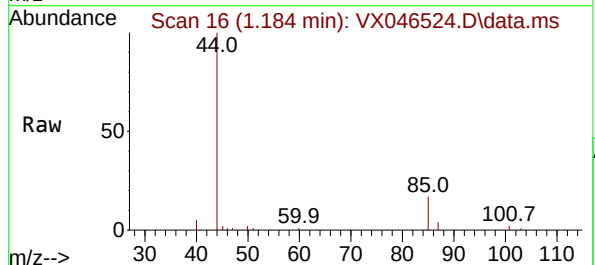
Manual Integrations
APPROVED

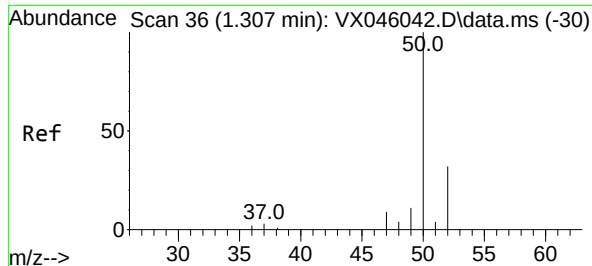
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 1.207 ug/l
RT: 1.184 min Scan# 16
Delta R.T. -0.001 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 85 Resp: 1548
Ion Ratio Lower Upper
85 100
87 25.5 15.7 47.1





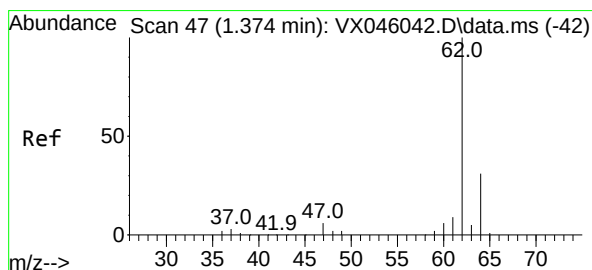
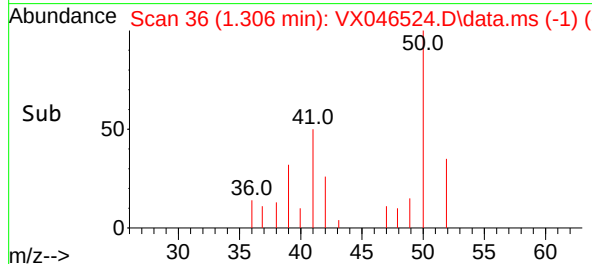
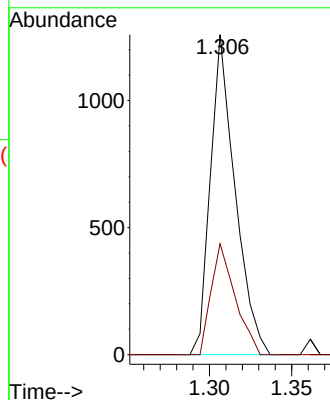
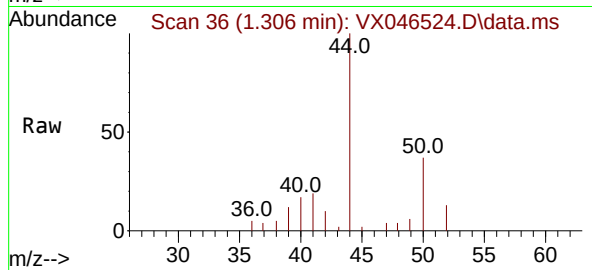
#3
Chloromethane
Concen: 1.128 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.001 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 50 Resp: 131
Ion Ratio Lower Upper
50 100
52 34.6 25.4 38.2

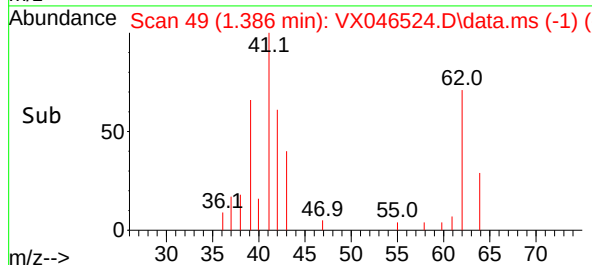
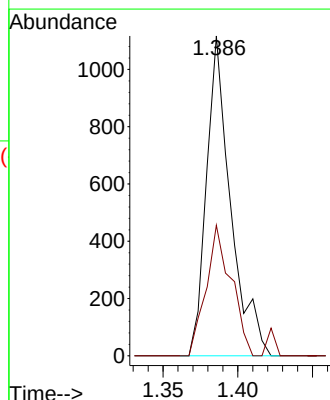
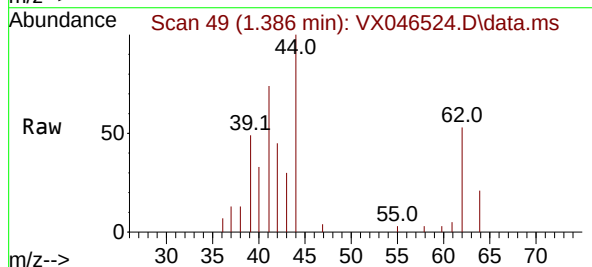
Manual Integrations
APPROVED

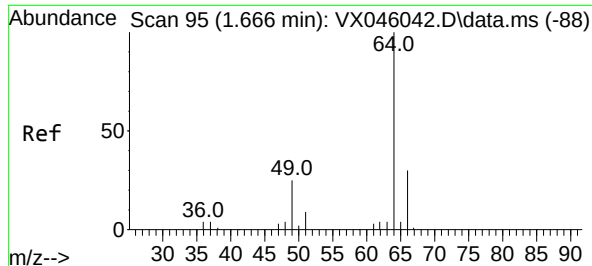
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 1.078 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

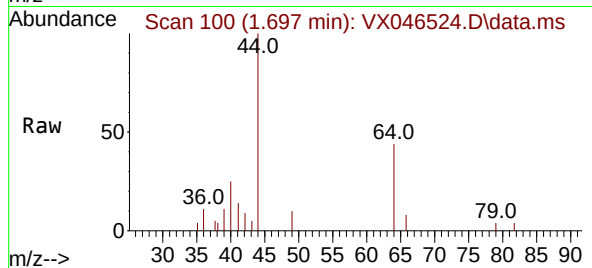
Tgt Ion: 62 Resp: 1255
Ion Ratio Lower Upper
62 100
64 40.8 25.2 37.8#





#6
Chloroethane
Concen: 1.245 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

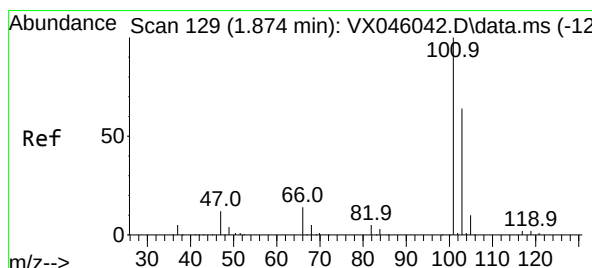
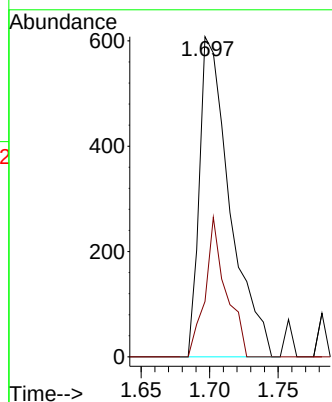
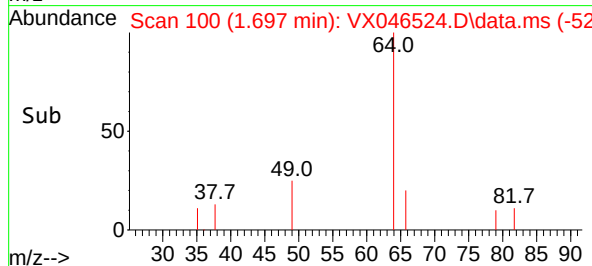
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion: 64 Resp: 940
Ion Ratio Lower Upper
64 100
66 17.3 24.3 36.5

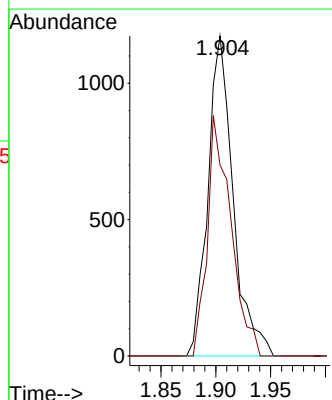
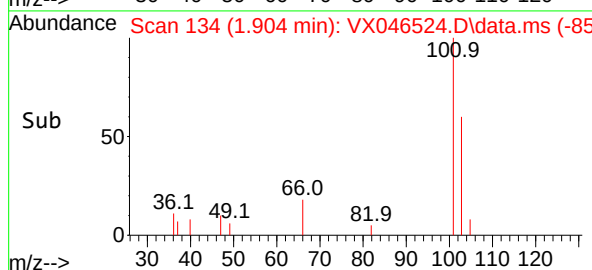
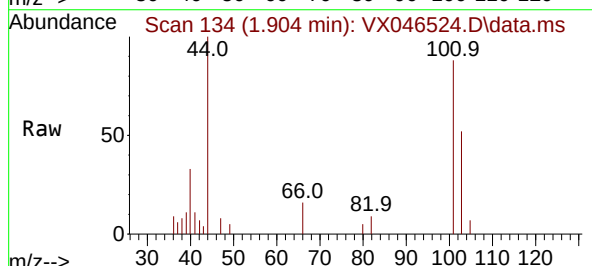
Manual Integrations
APPROVED

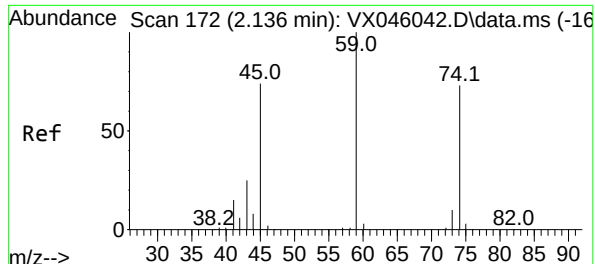
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#7
Trichlorofluoromethane
Concen: 0.977 ug/l
RT: 1.904 min Scan# 134
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

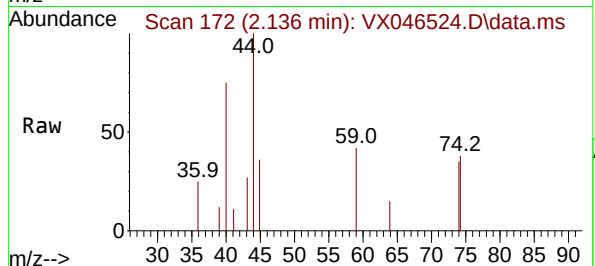
Tgt Ion:101 Resp: 1882
Ion Ratio Lower Upper
101 100
103 59.7 51.0 76.4





#8
Diethyl Ether
Concen: 1.120 ug/l
RT: 2.136 min Scan# 11
Delta R.T. -0.018 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

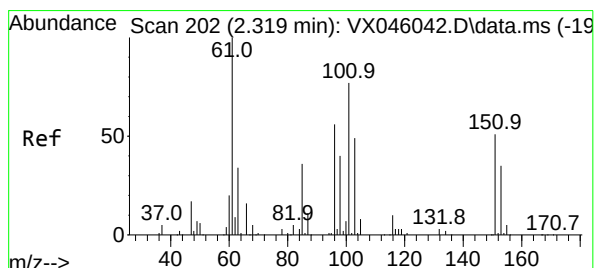
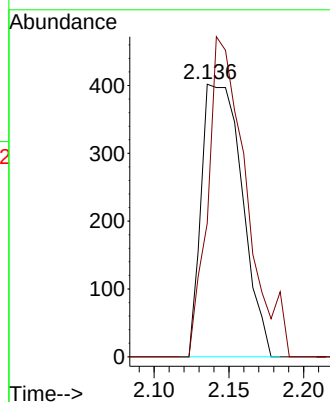
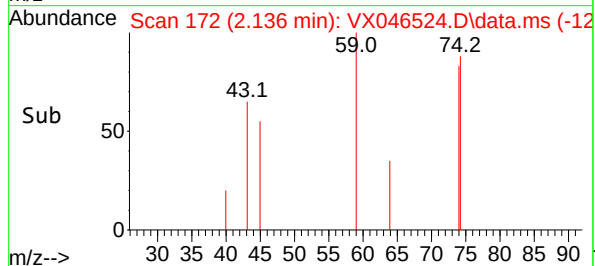
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



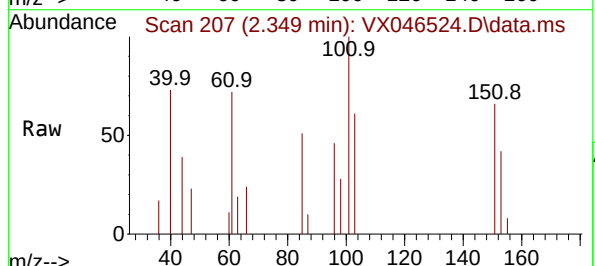
Tgt Ion: 74 Resp: 762
Ion Ratio Lower Upper
74 100
45 110.4 54.9 164.8

Manual Integrations
APPROVED

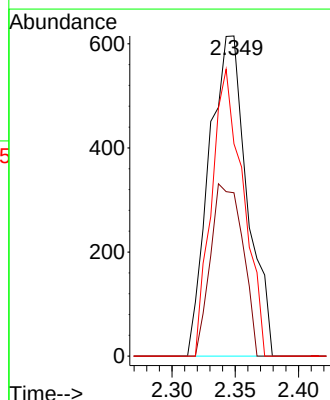
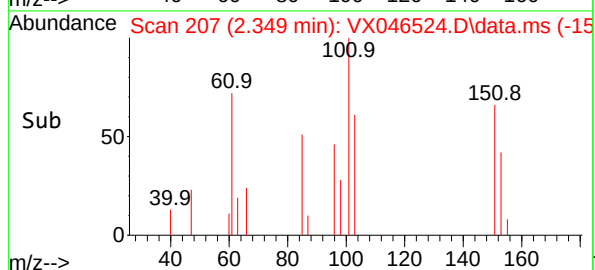
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

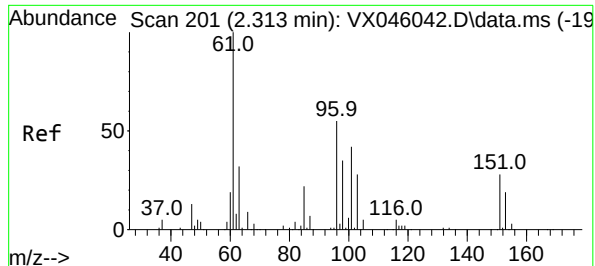


#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.062 ug/l
RT: 2.349 min Scan# 207
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57



Tgt Ion:101 Resp: 1288
Ion Ratio Lower Upper
101 100
85 45.5 38.6 58.0
151 74.2 55.2 82.8





#12

1,1-Dichloroethene

Concen: 1.070 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

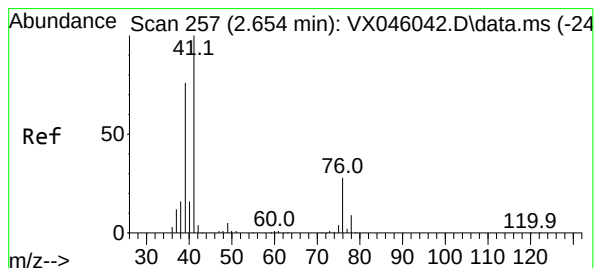
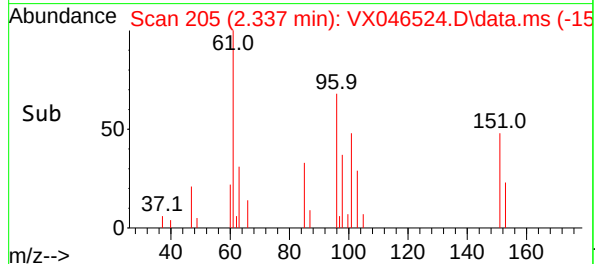
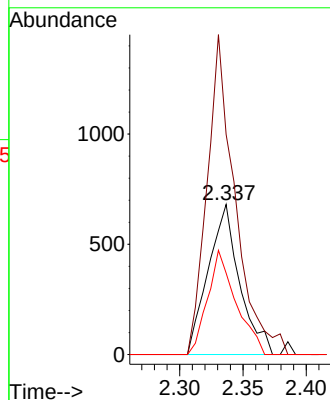
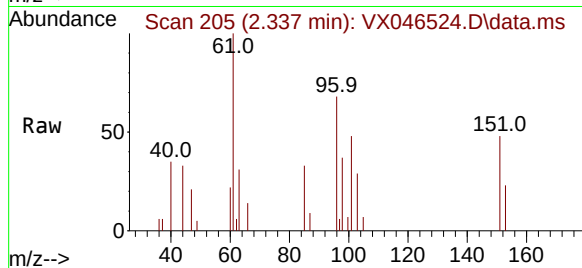
VSTDIC001

Tgt Ion:	96	Resp:	1174
Ion	Ratio	Lower	Upper
96	100		
61	146.7	146.2	219.2
98	54.3	51.0	76.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 1.101 ug/l

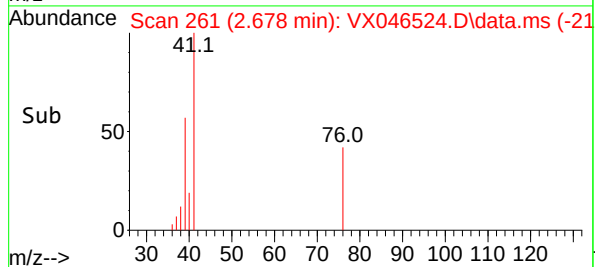
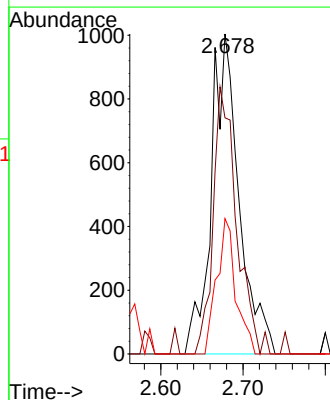
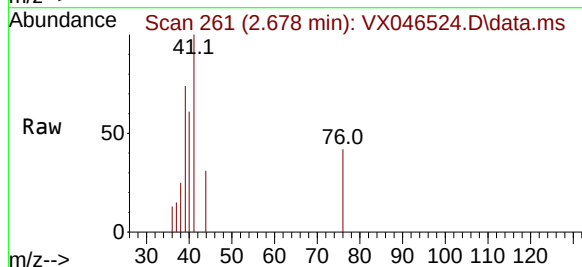
RT: 2.678 min Scan# 261

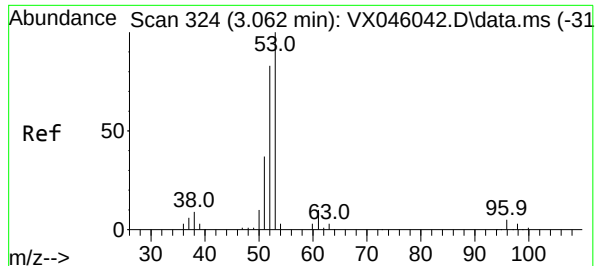
Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	41	Resp:	2371
Ion	Ratio	Lower	Upper
41	100		
39	70.3	60.6	90.8
76	28.8	24.9	37.3





#15

Acrylonitrile

Concen: 4.580 ug/l

RT: 3.080 min Scan# 31

Delta R.T. -0.001 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

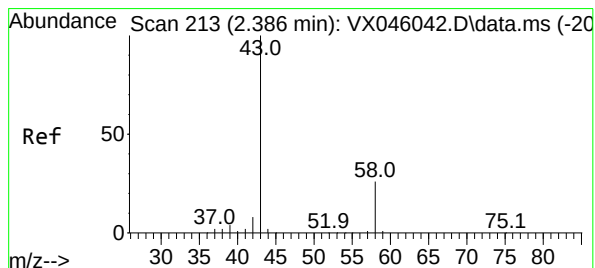
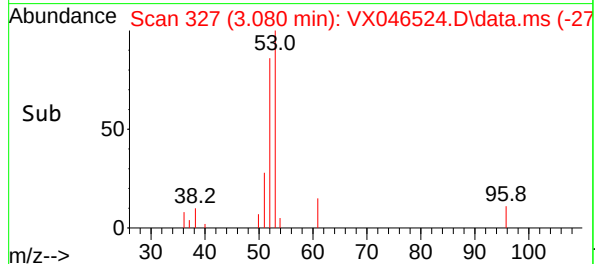
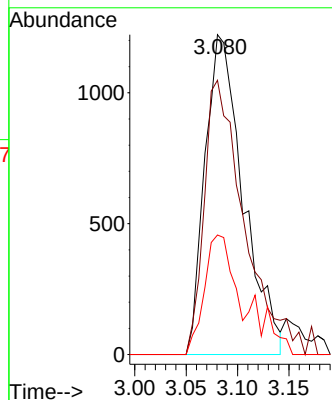
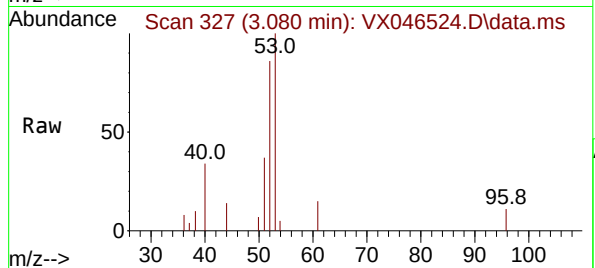
Tgt Ion: 53	Resp: 315
Ion Ratio	Lower Upper
53	100
52	90.1 65.3 97.9
51	30.7 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 12.546 ug/l

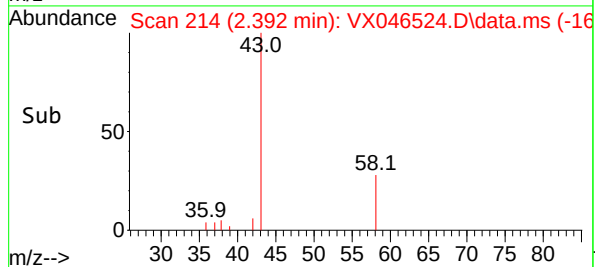
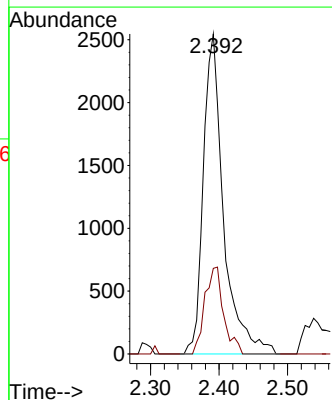
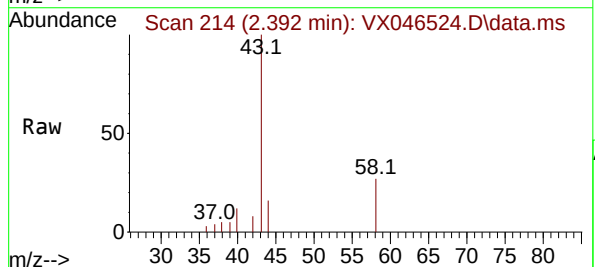
RT: 2.392 min Scan# 214

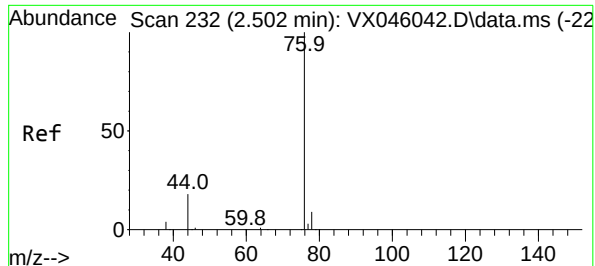
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion: 43	Resp: 5228
Ion Ratio	Lower Upper
43	100
58	26.8 21.2 31.8





#17

Carbon Disulfide

Concen: 2.030 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 76 Resp: 427

Ion Ratio Lower Upper

76 100

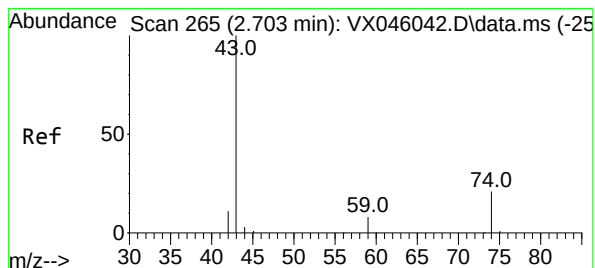
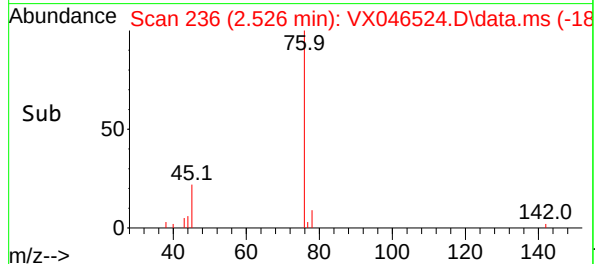
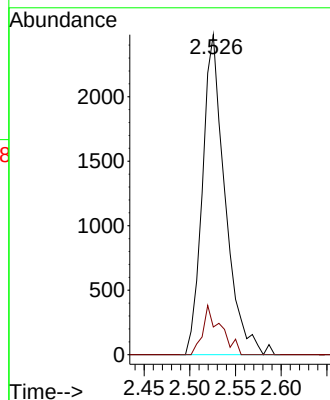
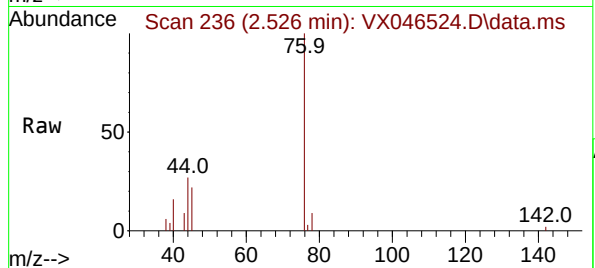
78 8.7 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 0.833 ug/l

RT: 2.721 min Scan# 268

Delta R.T. -0.000 min

Lab File: VX046524.D

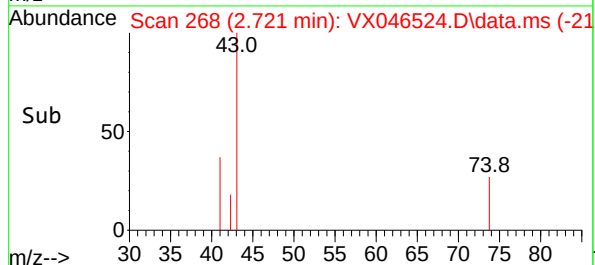
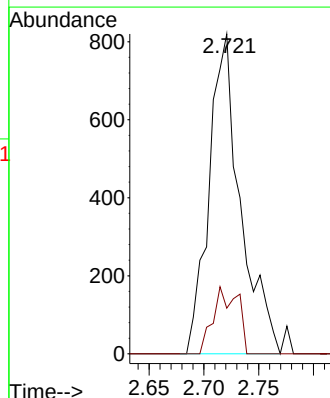
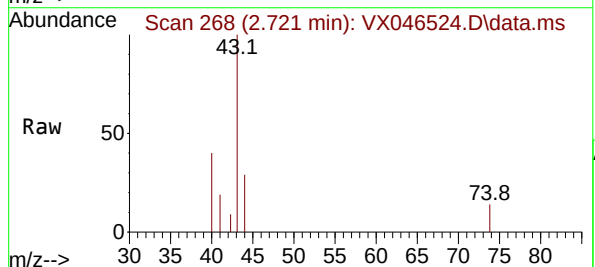
Acq: 06 Jun 2025 12:57

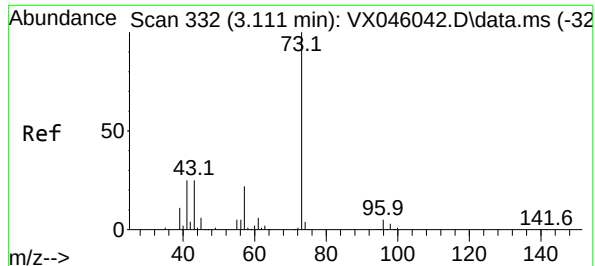
Tgt Ion: 43 Resp: 1631

Ion Ratio Lower Upper

43 100

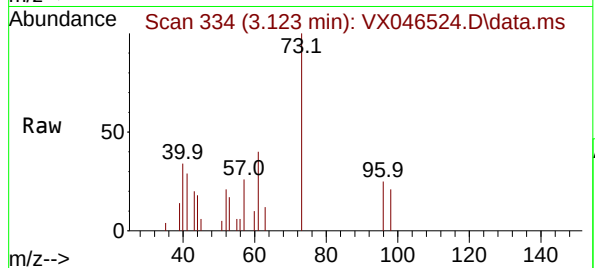
74 16.4 16.7 25.1#





#19
Methyl tert-butyl Ether
Concen: 0.902 ug/l
RT: 3.123 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

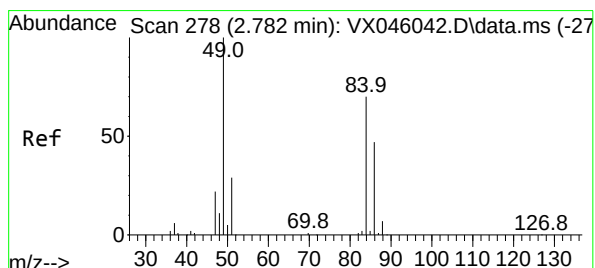
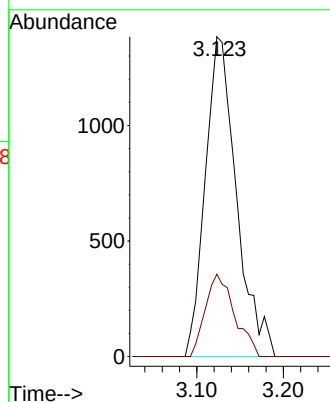
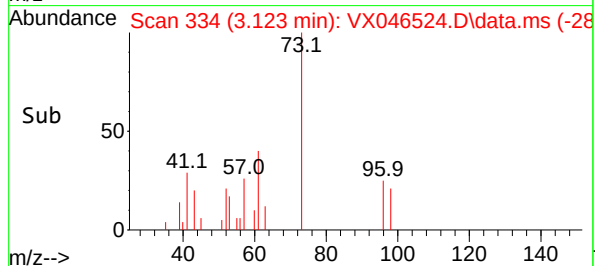
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 73 Resp: 3460
Ion Ratio Lower Upper
73 100
57 25.7 17.7 26.5

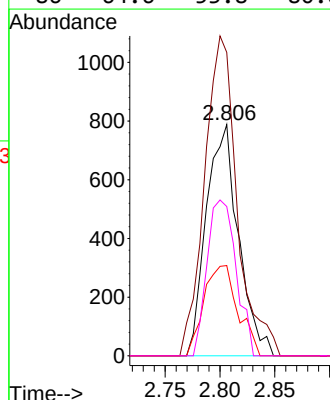
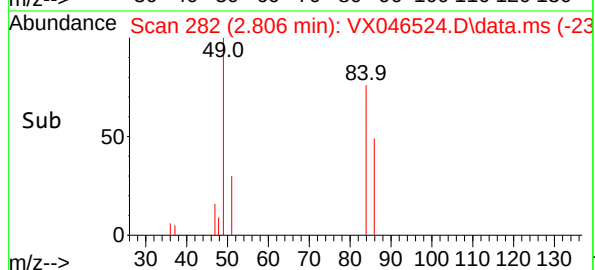
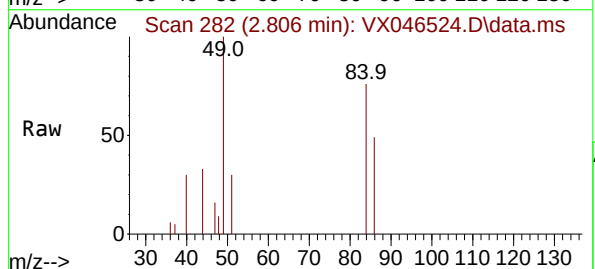
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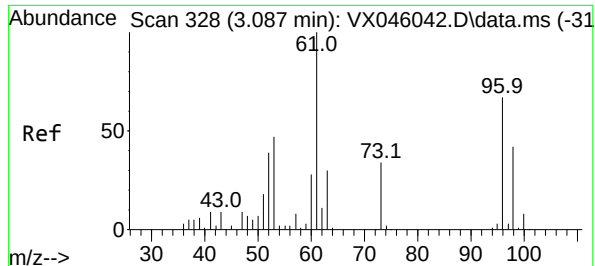
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 1.217 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

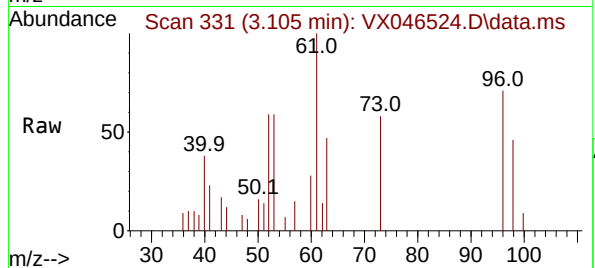
Tgt Ion: 84 Resp: 1604
Ion Ratio Lower Upper
84 100
49 131.2 113.9 170.9
51 39.1 33.5 50.3
86 64.6 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 1.250 ug/l
RT: 3.105 min Scan# 311
Delta R.T. -0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

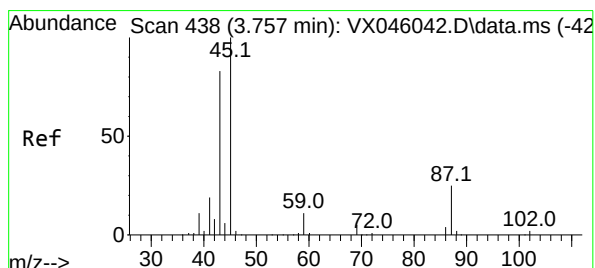
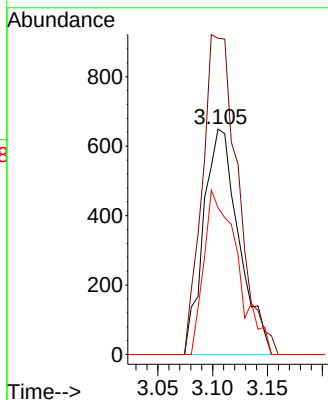
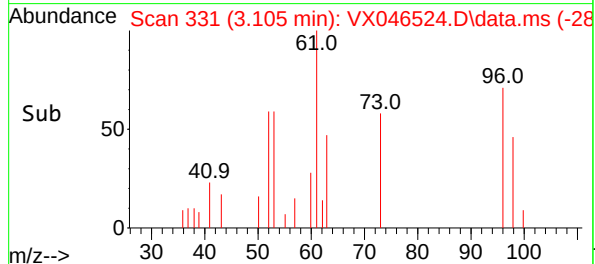
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 96 Resp: 145
Ion Ratio Lower Upper
96 100
61 140.4 119.5 179.3
98 65.2 50.0 75.0

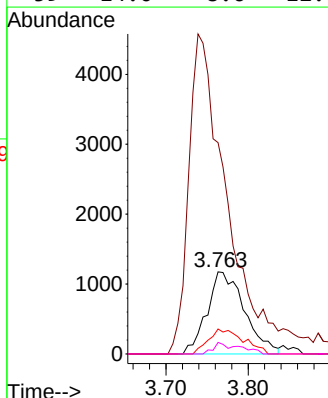
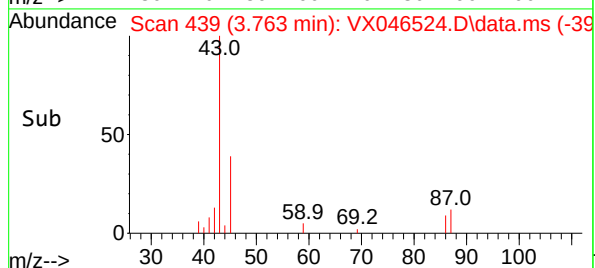
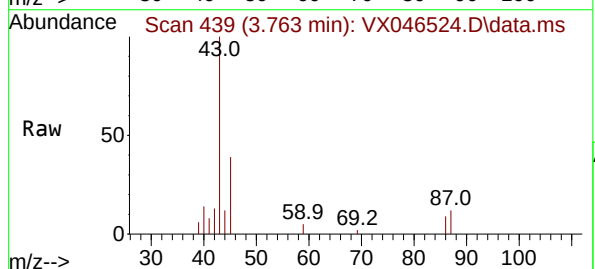
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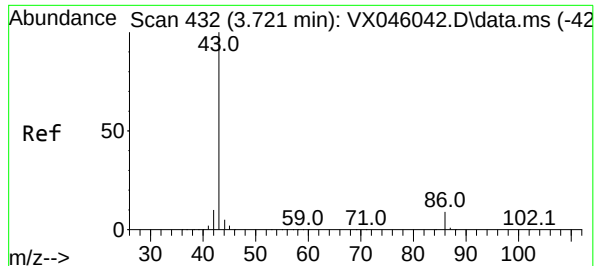
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 0.878 ug/l
RT: 3.763 min Scan# 439
Delta R.T. -0.019 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 45 Resp: 3727
Ion Ratio Lower Upper
45 100
43 229.6 66.6 100.0#
87 30.5 19.8 29.6#
59 14.0 8.6 12.8#





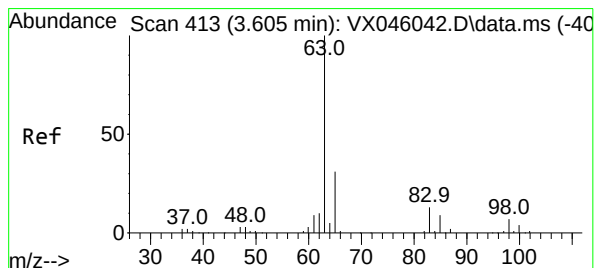
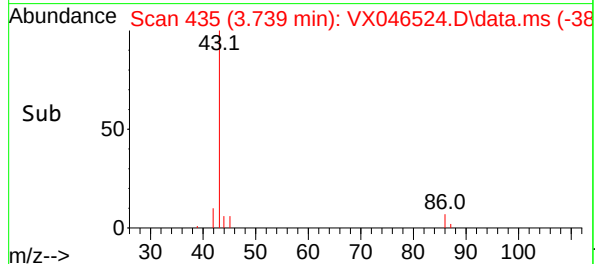
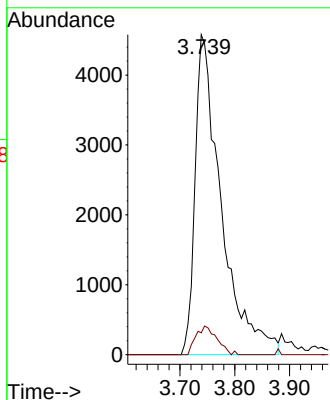
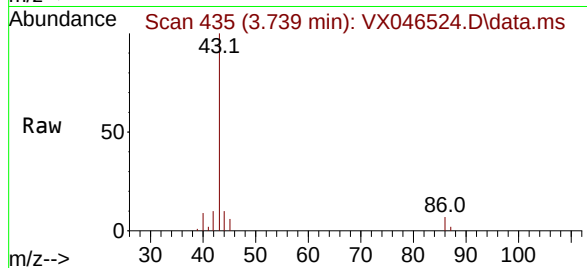
#23
Vinyl Acetate
Concen: 4.618 ug/l
RT: 3.739 min Scan# 415
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 43 Resp: 1514
Ion Ratio Lower Upper
43 100
86 6.9 7.5 11.3

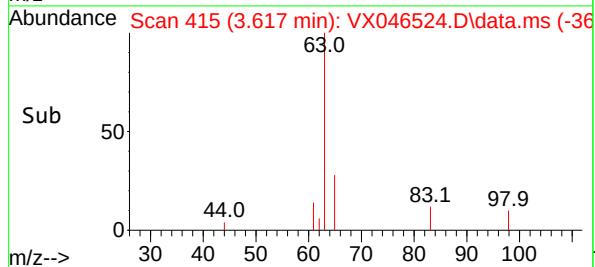
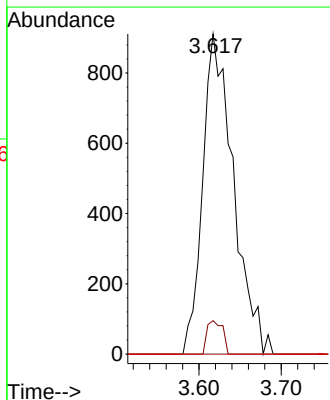
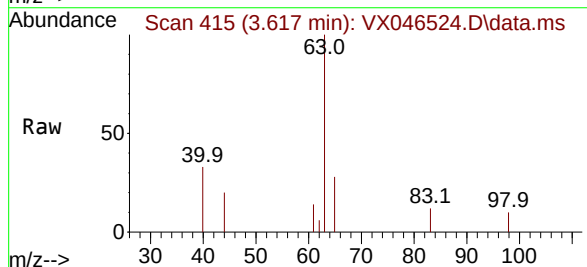
Manual Integrations
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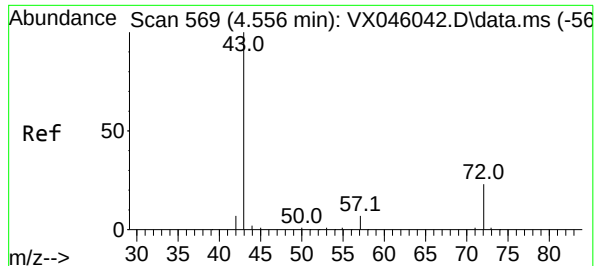
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#24
1,1-Dichloroethane
Concen: 1.000 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 63 Resp: 2366
Ion Ratio Lower Upper
63 100
98 10.4 3.6 10.8
100 0.0 2.1 6.3





#25

2-Butanone

Concen: 4.884 ug/l

RT: 4.598 min Scan# 51

Delta R.T. 0.024 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 43 Resp: 446

Ion Ratio Lower Upper

43 100

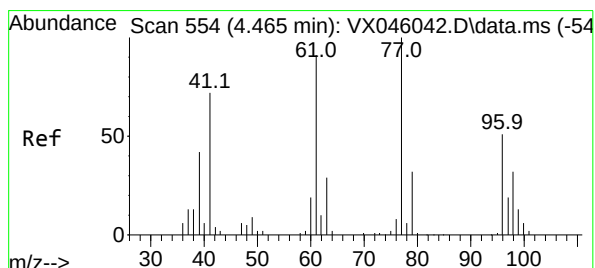
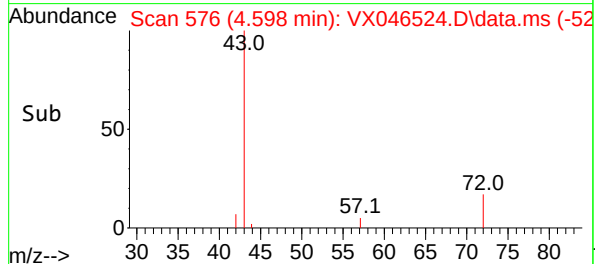
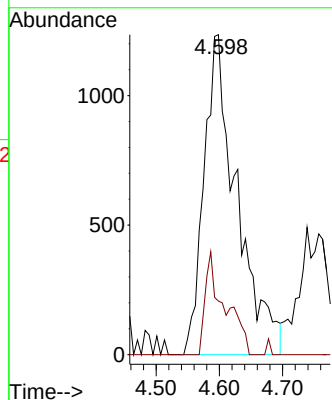
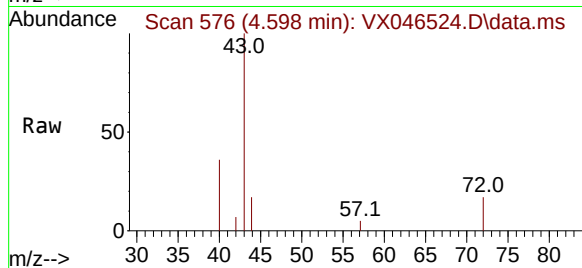
72 16.8 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 0.947 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046524.D

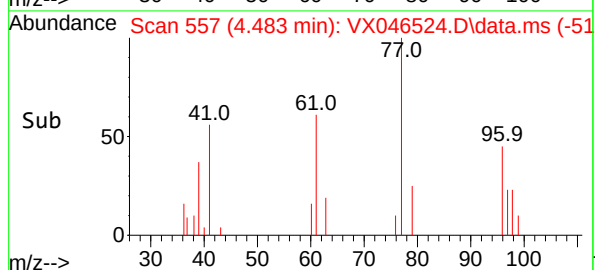
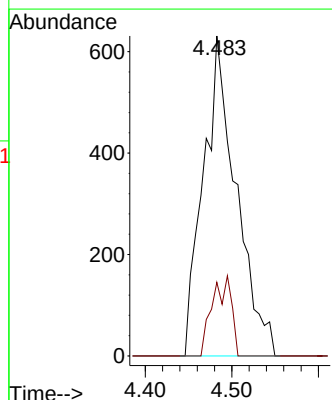
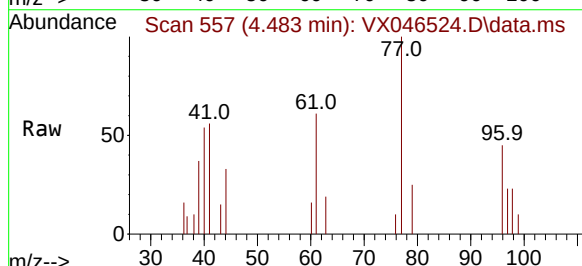
Acq: 06 Jun 2025 12:57

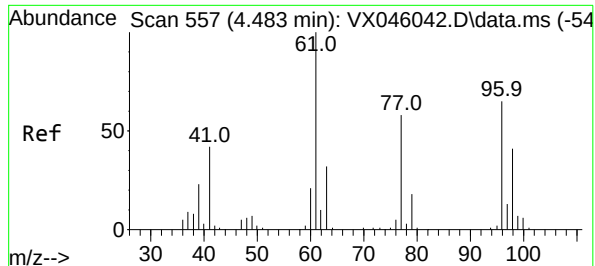
Tgt Ion: 77 Resp: 1663

Ion Ratio Lower Upper

77 100

97 14.6 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 1.120 ug/l

RT: 4.507 min Scan# 50

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 96 Resp: 1600

Ion Ratio Lower Upper

96 100

61 153.1 0.0 322.8

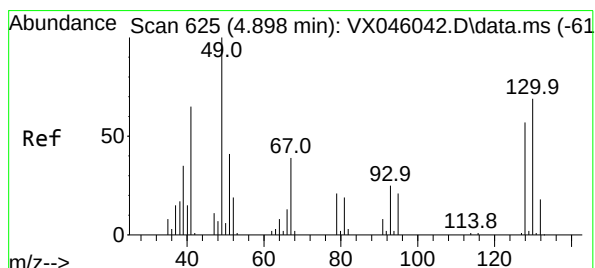
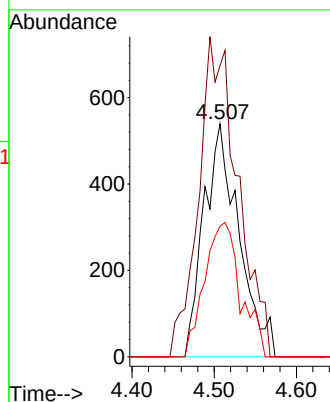
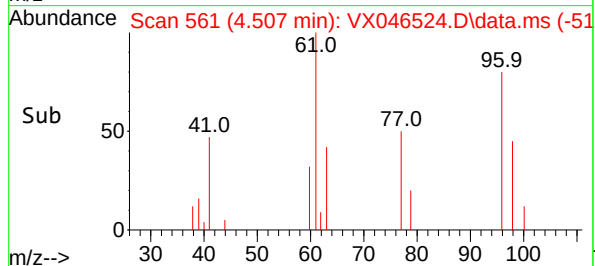
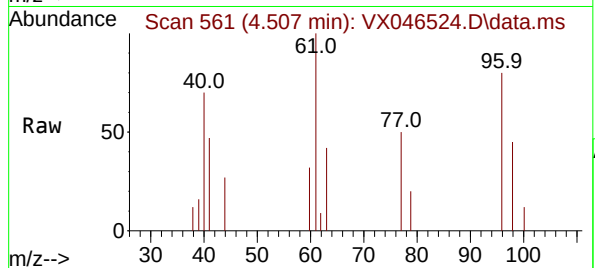
98 59.2 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 1.063 ug/l

RT: 4.928 min Scan# 630

Delta R.T. 0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

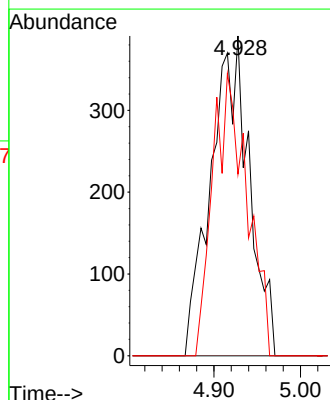
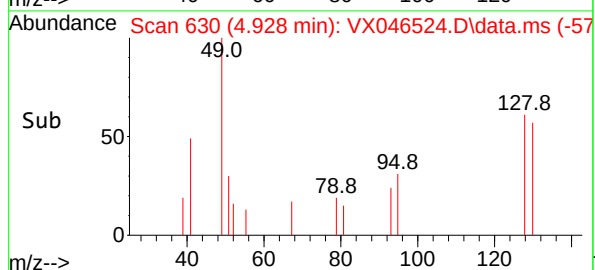
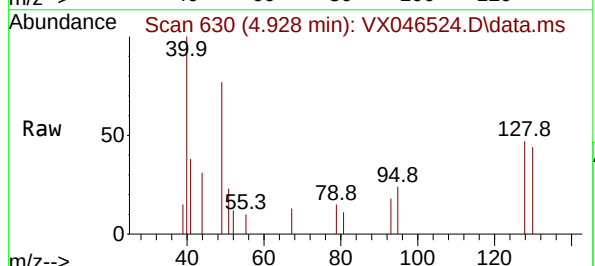
Tgt Ion: 49 Resp: 1200

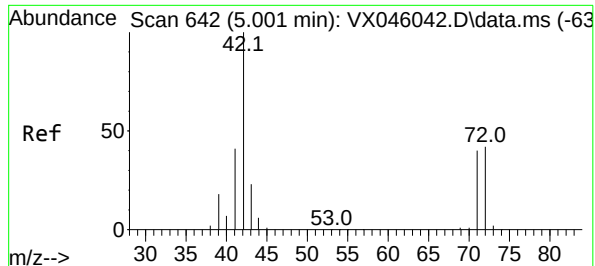
Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 79.0 56.2 84.2





#29

Tetrahydrofuran

Concen: 4.895 ug/l

RT: 5.037 min Scan# 642

Delta R.T. 0.018 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

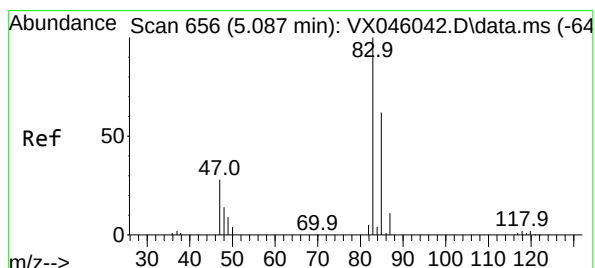
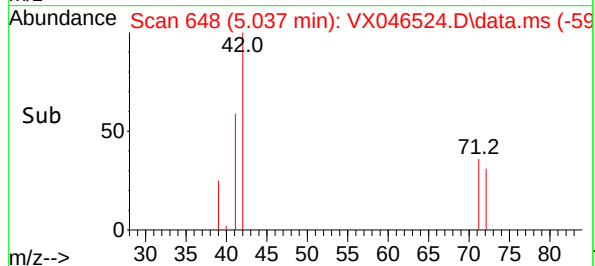
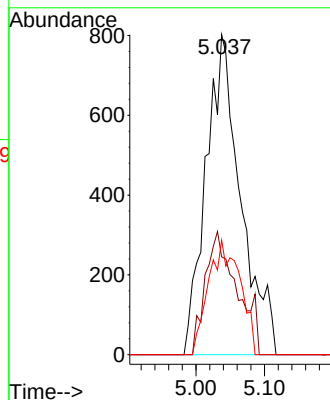
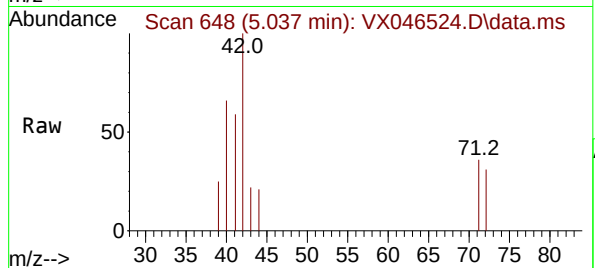
VSTDIC001

Tgt Ion:	42	Resp:	282
Ion	Ratio	Lower	Upper
42	100		
72	35.0	33.7	50.5
71	32.3	31.4	47.2

Manual Integrations

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Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 1.005 ug/l

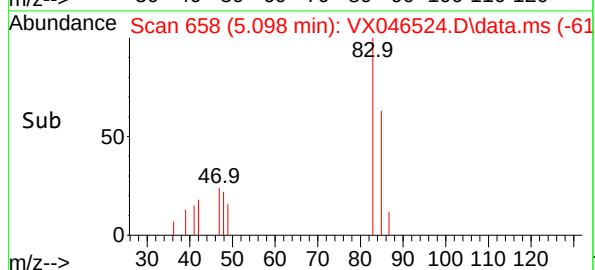
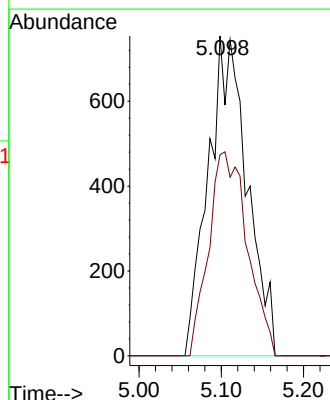
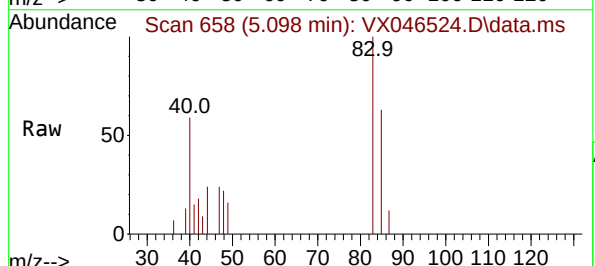
RT: 5.098 min Scan# 658

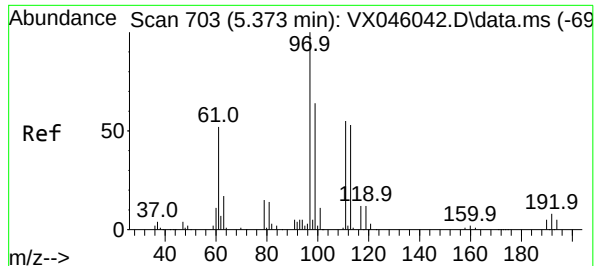
Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	83	Resp:	2492
Ion	Ratio	Lower	Upper
83	100		
85	62.9	49.3	73.9





#32

1,1,1-Trichloroethane

Concen: 0.985 ug/l

RT: 5.391 min Scan# 70

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 97 Resp: 2090

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6

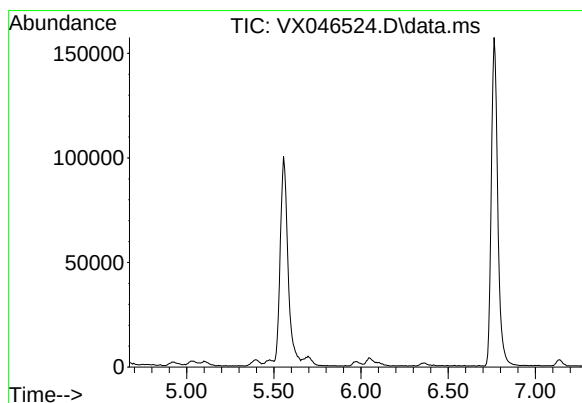
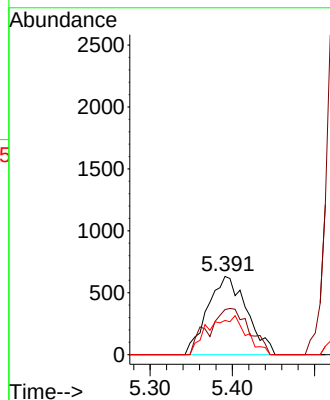
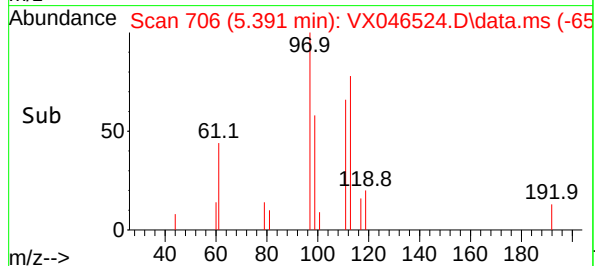
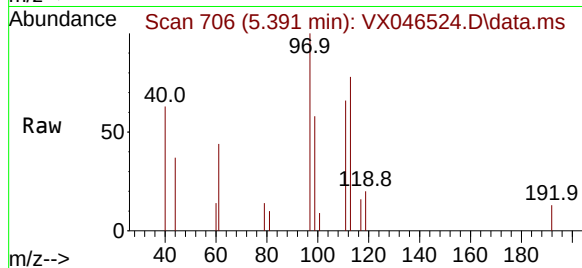
61 48.5 40.1 60.1

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#33

1,2-Dichloroethane-d4

Concen: 0.000 ug/l

Expected RT: 5.97 min

Lab File: VX046524.D

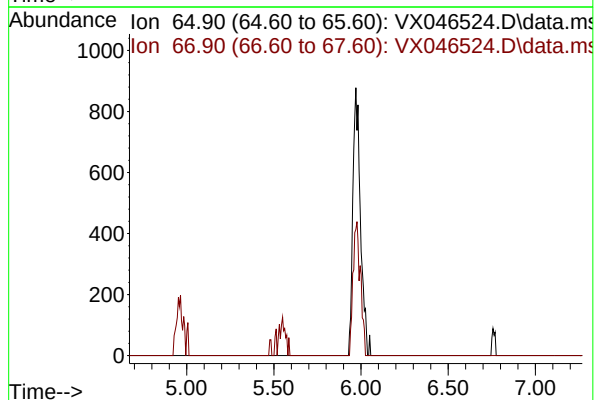
Acq: 06 Jun 2025 12:57

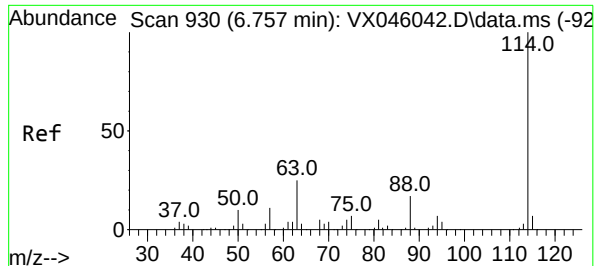
Tgt Ion: 65

Sig Exp Ratio

65 100

67 49.5





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 16141

Ion Ratio Lower Upper

114 100

63 22.8 0.0 49.2

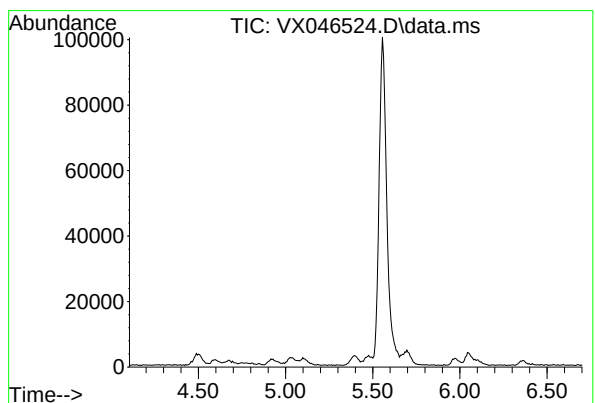
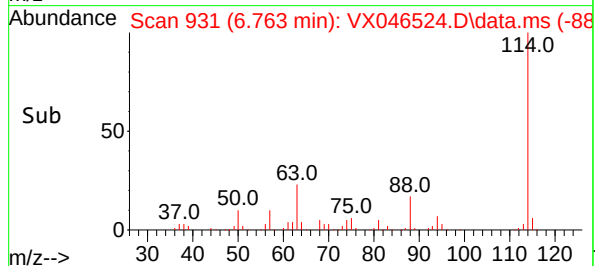
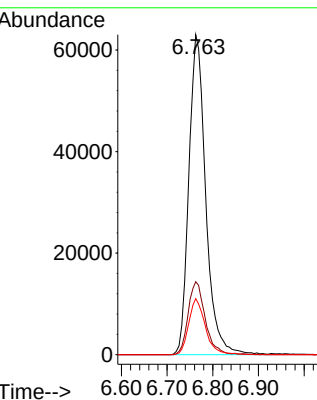
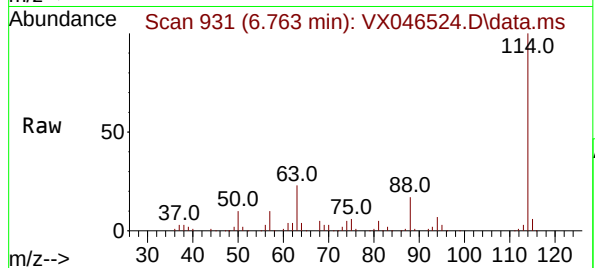
88 17.5 0.0 33.6

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#35

Dibromofluoromethane

Concen: 0.000 ug/l

Expected RT: 5.40 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

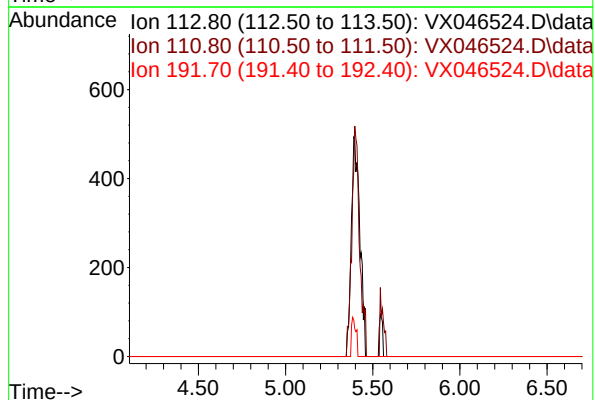
Tgt Ion: 113

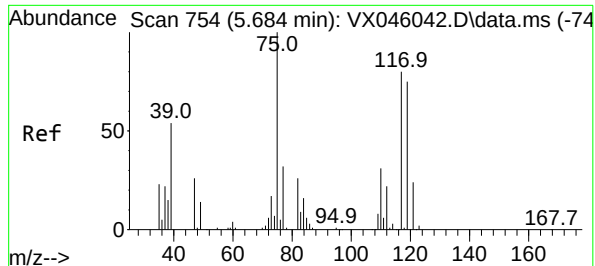
Sig Exp Ratio

113 100

111 103.9

192 16.6





#36

1,1-Dichloropropene

Concen: 1.256 ug/l

RT: 5.702 min Scan# 754

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 75 Resp: 2130

Ion Ratio Lower Upper

75 100

110 29.5 16.3 48.9

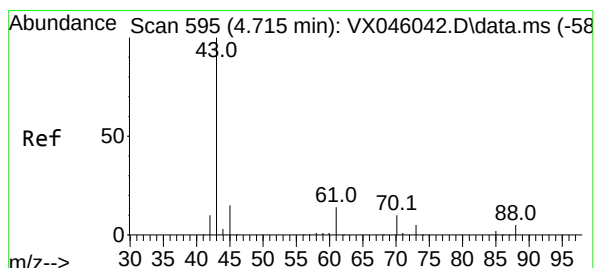
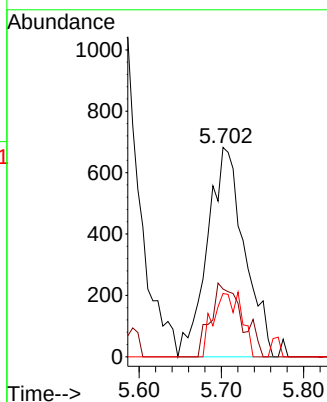
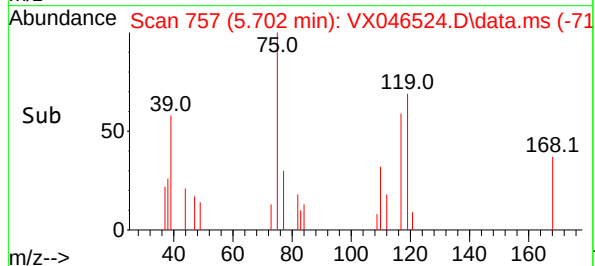
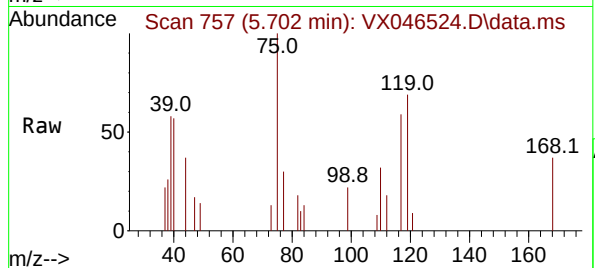
77 0.0 24.3 36.5

Manual Integrations

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Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#37

Ethyl Acetate

Concen: 0.693 ug/l m

RT: 4.739 min Scan# 599

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

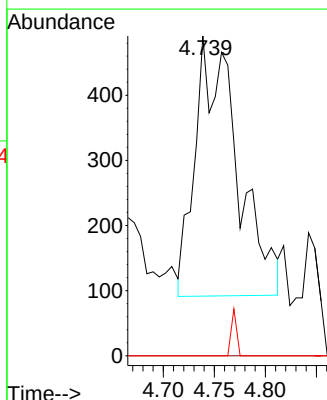
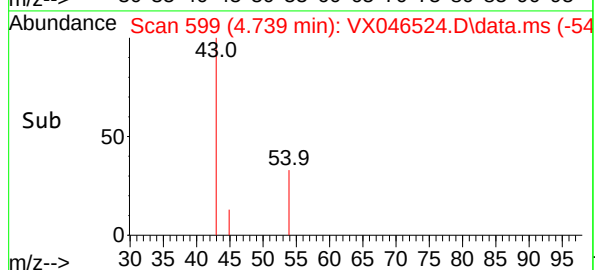
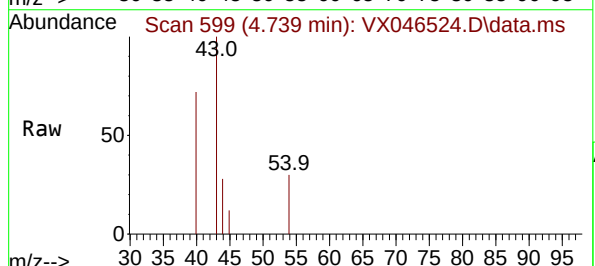
Tgt Ion: 43 Resp: 1146

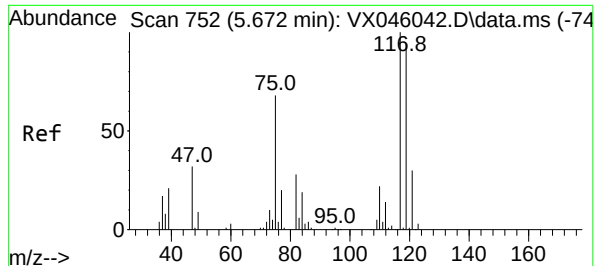
Ion Ratio Lower Upper

43 100

61 0.0 10.3 15.5#

70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 1.113 ug/l

RT: 5.696 min Scan# 752

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

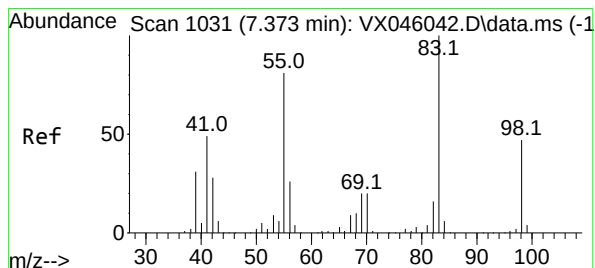
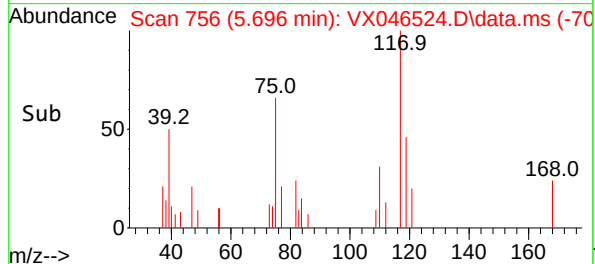
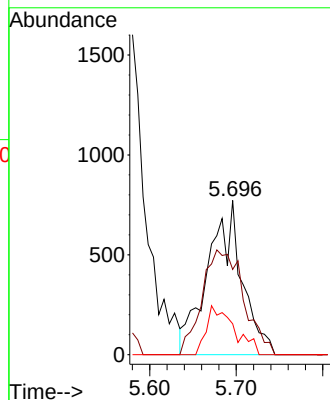
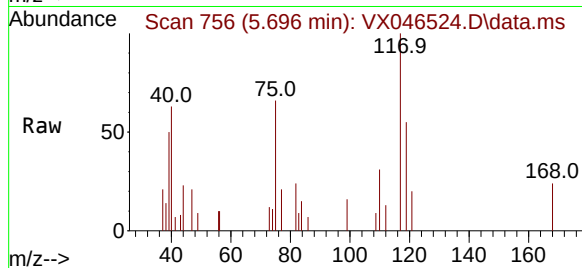
VSTDIC001

Tgt Ion:	117	Resp:	211
Ion	Ratio	Lower	Upper
117	100		
119	55.3	75.2	112.8
121	20.1	24.2	36.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#39

Methylcyclohexane

Concen: 1.169 ug/l

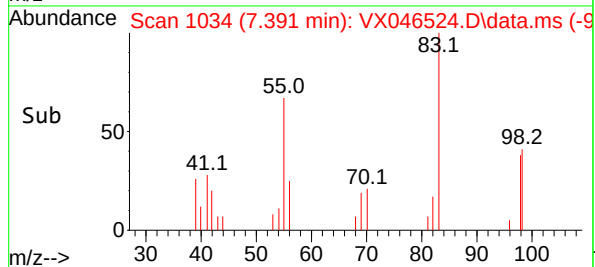
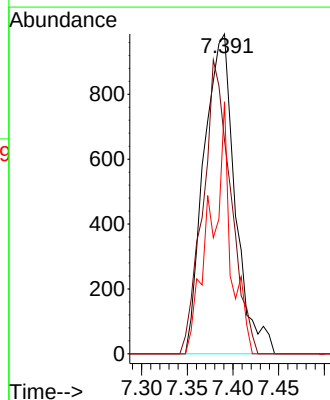
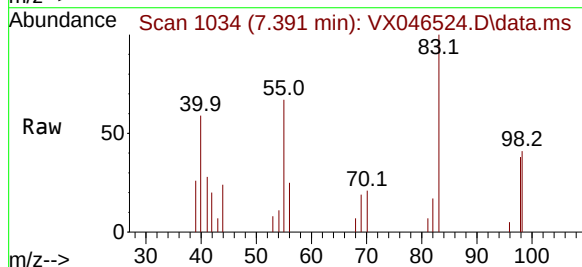
RT: 7.391 min Scan# 1034

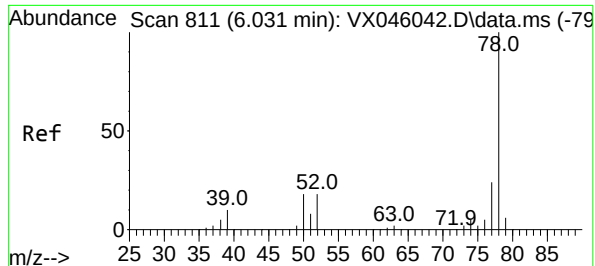
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	83	Resp:	2339
Ion	Ratio	Lower	Upper
83	100		
55	66.7	64.7	97.1
98	78.8	37.4	56.2





#40

Benzene

Concen: 1.029 ug/l

RT: 6.043 min Scan# 811

Delta R.T. -0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 78 Resp: 491

Ion Ratio Lower Upper

78 100

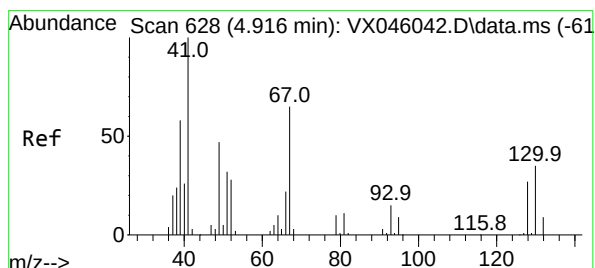
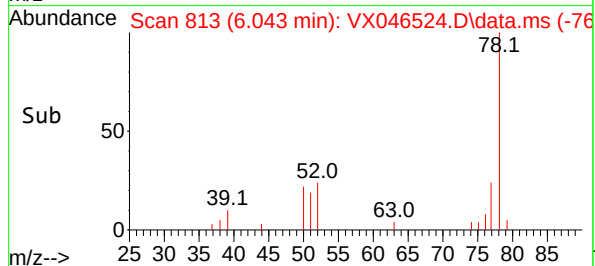
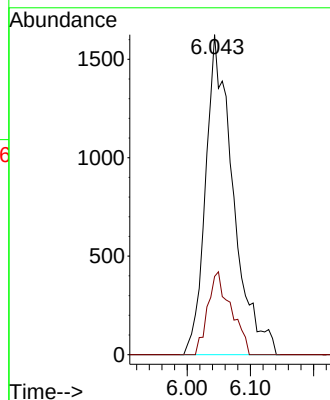
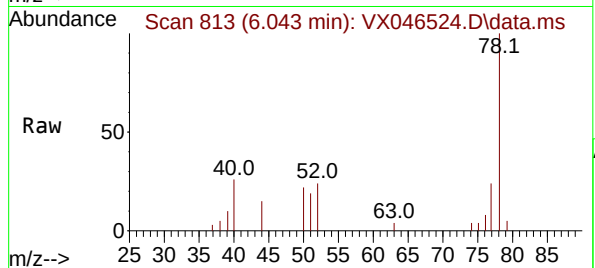
77 24.4 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#41

Methacrylonitrile

Concen: 0.877 ug/l

RT: 4.952 min Scan# 634

Delta R.T. 0.018 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion: 41 Resp: 901

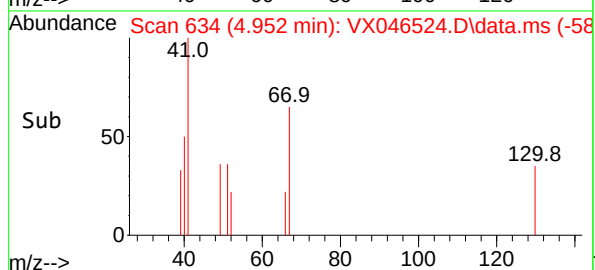
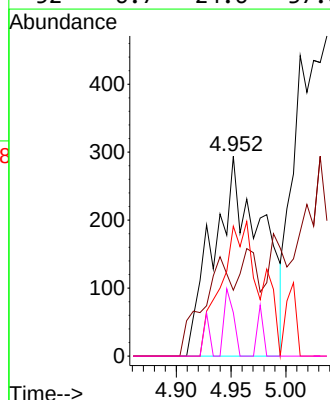
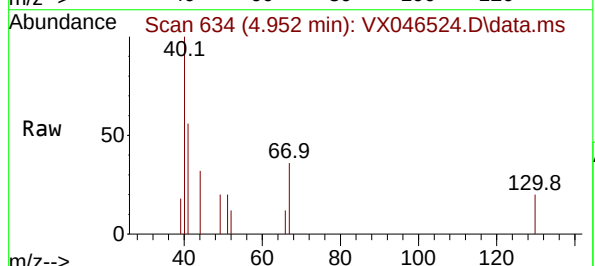
Ion Ratio Lower Upper

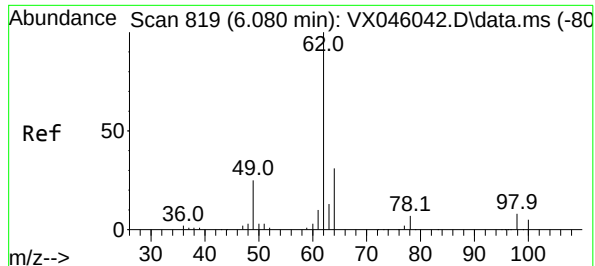
41 100

39 30.0 47.2 70.8#

67 0.0 50.7 76.1#

52 6.7 24.6 37.0#





#42

1,2-Dichloroethane

Concen: 0.984 ug/l

RT: 6.104 min Scan# 819

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 62 Resp: 195

Ion Ratio Lower Upper

62 100

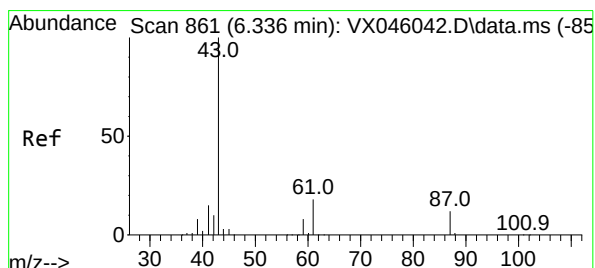
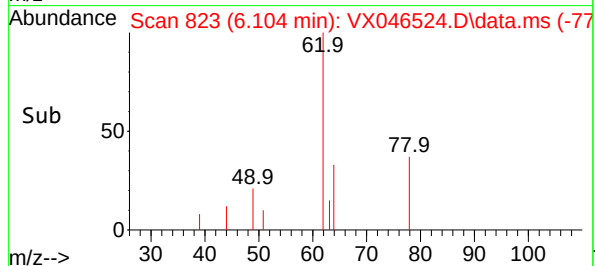
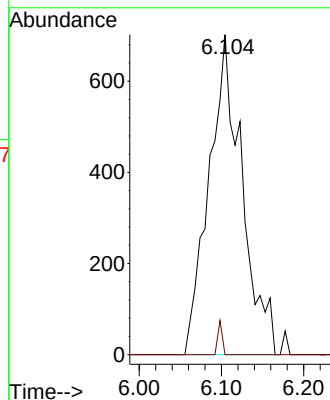
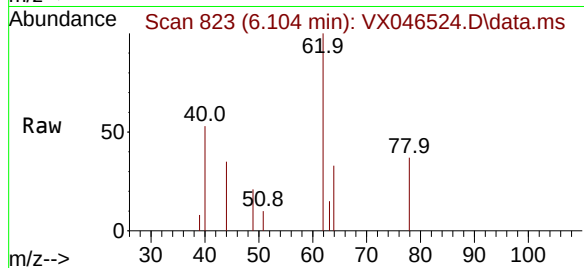
98 1.4 0.0 15.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#43

Isopropyl Acetate

Concen: 0.864 ug/l

RT: 6.348 min Scan# 863

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

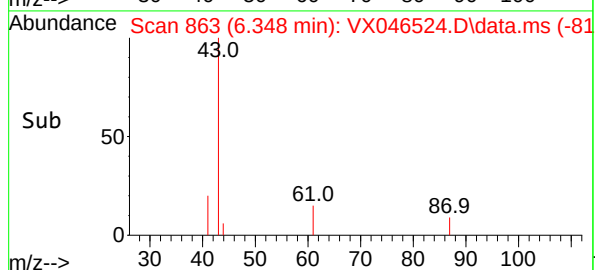
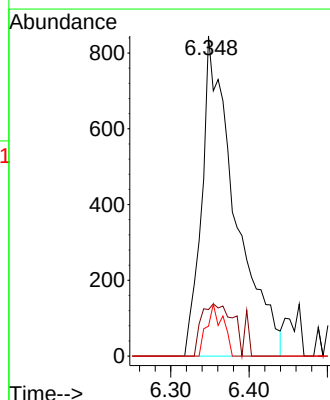
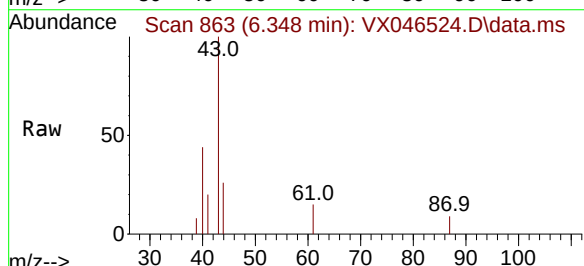
Tgt Ion: 43 Resp: 2493

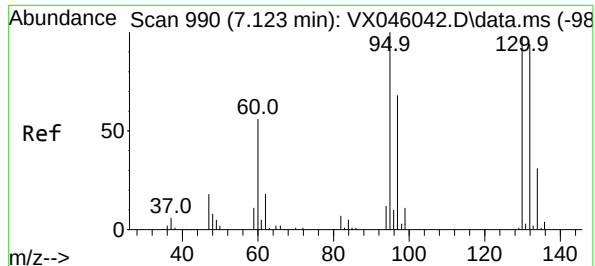
Ion Ratio Lower Upper

43 100

61 15.2 14.3 21.5

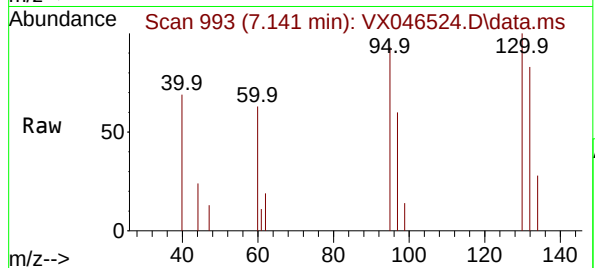
87 7.9 9.5 14.3#





#44
Trichloroethene
Concen: 1.267 ug/l
RT: 7.141 min Scan# 993
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

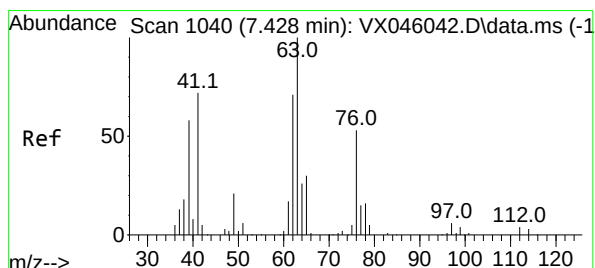
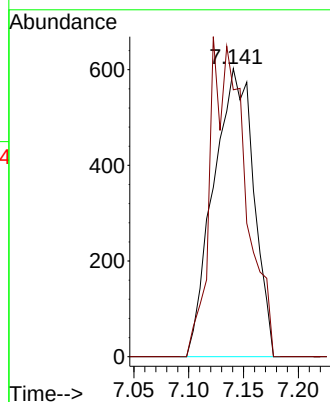
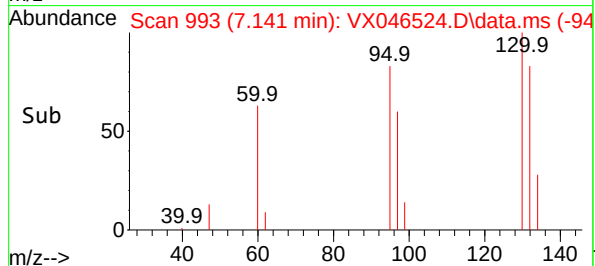
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



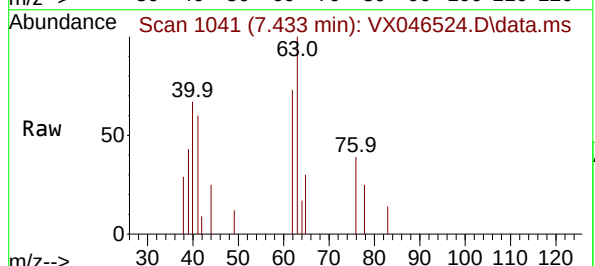
Tgt Ion:130 Resp: 153
Ion Ratio Lower Upper
130 100
95 92.7 0.0 204.2

Manual Integrations
APPROVED

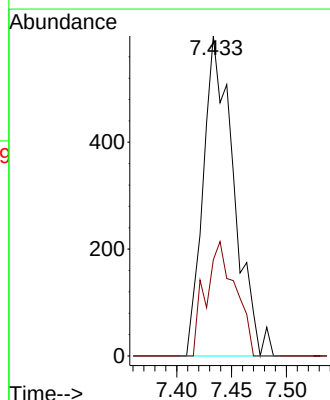
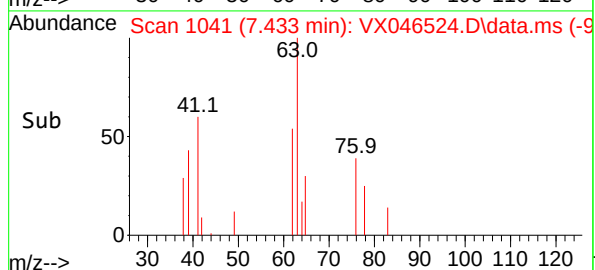
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025

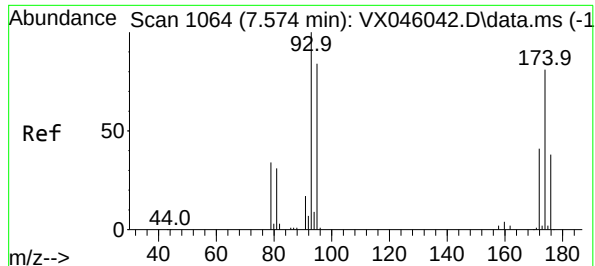


#45
1,2-Dichloropropane
Concen: 0.940 ug/l
RT: 7.433 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57



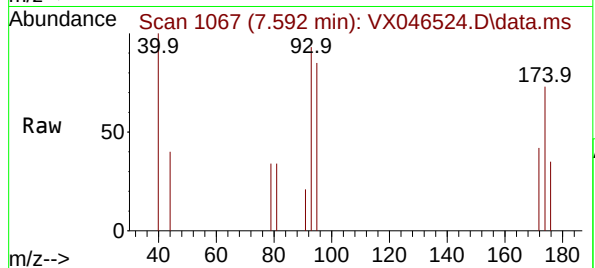
Tgt Ion: 63 Resp: 1158
Ion Ratio Lower Upper
63 100
65 30.1 24.1 36.1





#46
Dibromomethane
Concen: 1.012 ug/l
RT: 7.592 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

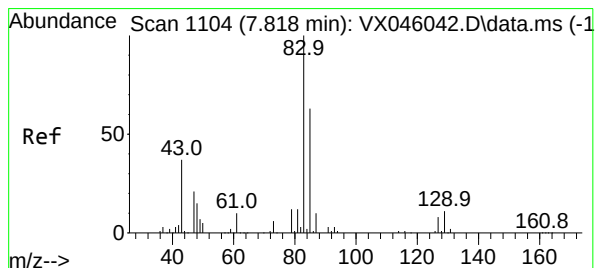
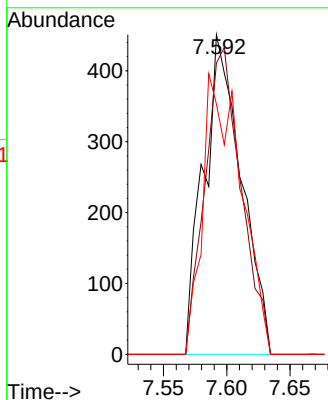
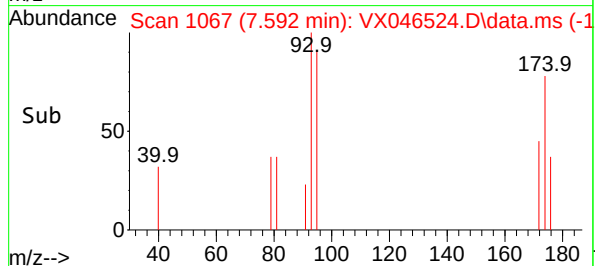
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 93 Resp: 938
Ion Ratio Lower Upper
93 100
95 91.9 65.6 98.4
174 89.4 68.2 102.2

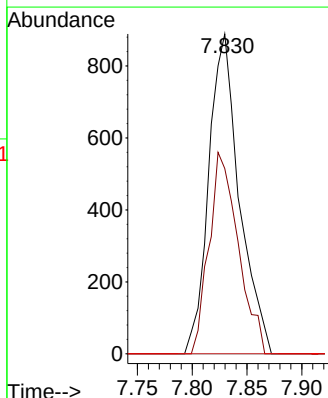
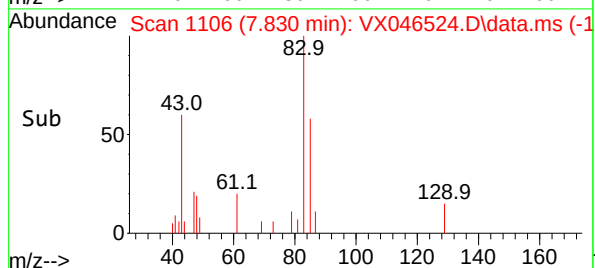
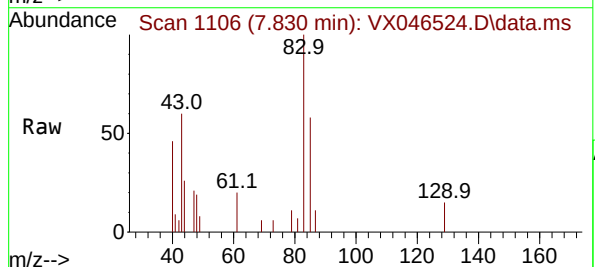
Manual Integrations
APPROVED

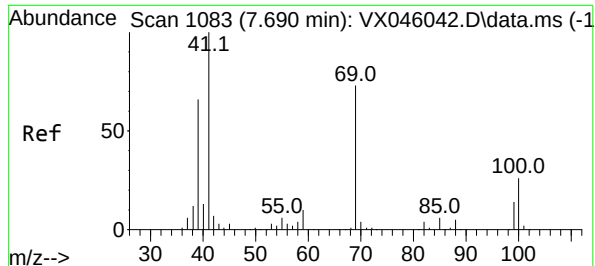
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#47
Bromodichloromethane
Concen: 0.905 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 83 Resp: 1724
Ion Ratio Lower Upper
83 100
85 57.9 50.5 75.7
127 0.0 6.5 9.7#





#48

Methyl methacrylate

Concen: 0.860 ug/l

RT: 7.714 min Scan# 1087

Delta R.T. 0.012 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

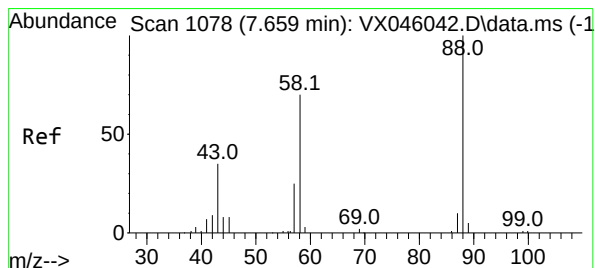
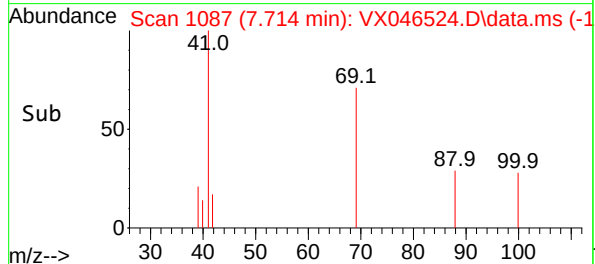
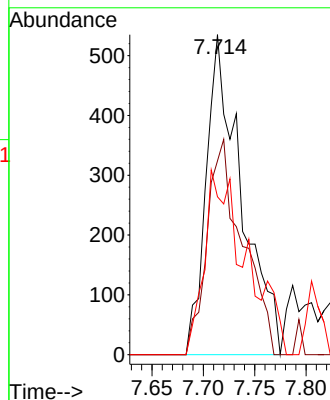
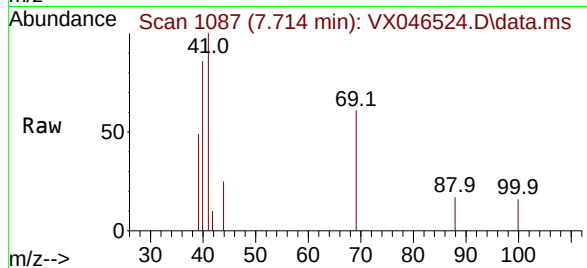
Tgt Ion: 41	Resp: 1270
Ion Ratio	Lower Upper
41	100
69	68.0 58.5 87.7
39	60.0 51.7 77.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#49

1,4-Dioxane

Concen: 14.408 ug/l

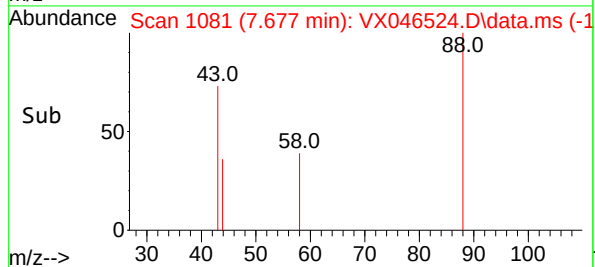
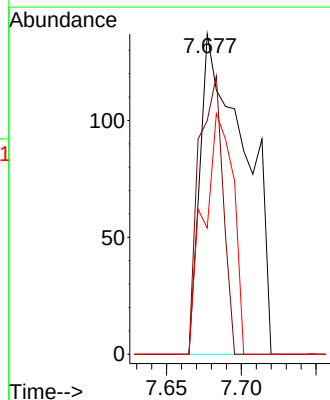
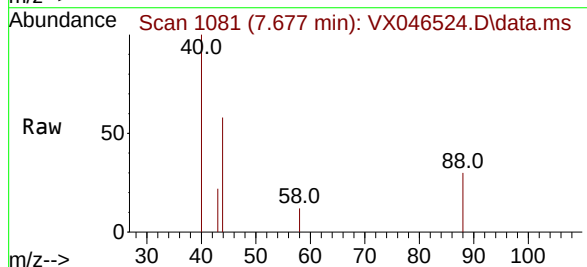
RT: 7.677 min Scan# 1081

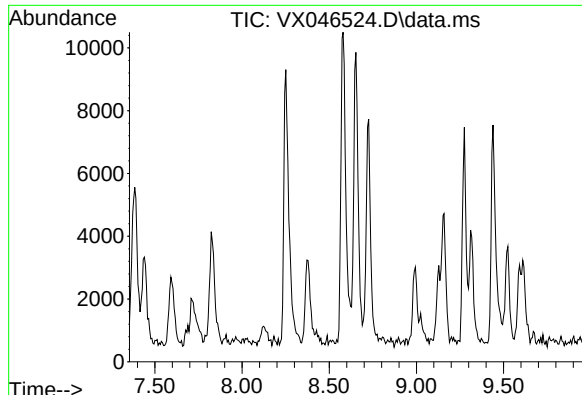
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion: 88	Resp: 286
Ion Ratio	Lower Upper
88	100
43	46.2 33.4 50.2
58	49.3 58.6 88.0





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

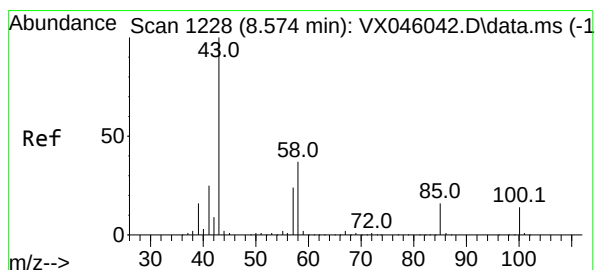
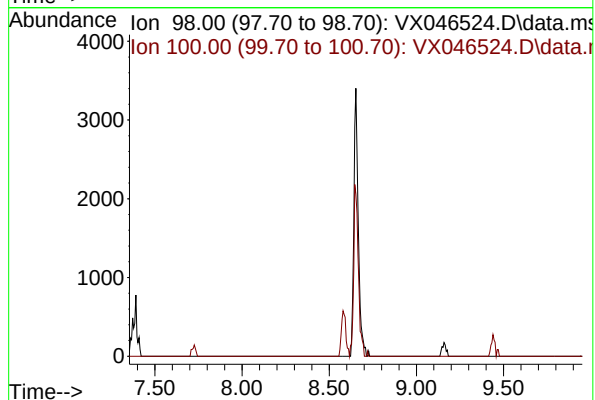
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 98
Sig Exp Ratio
98 100
100 66.9

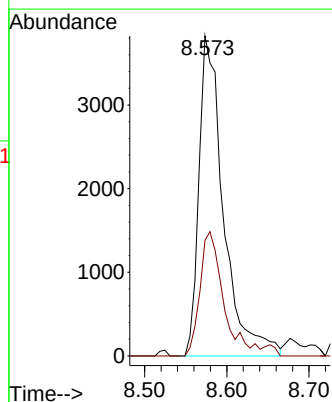
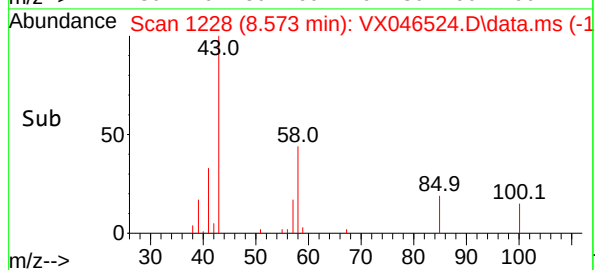
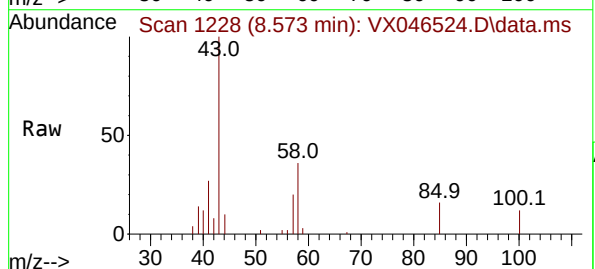
Manual Integrations
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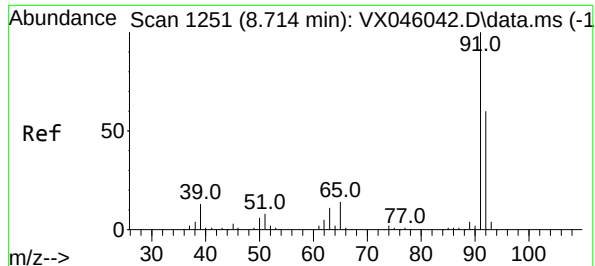
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#51
4-Methyl-2-Pentanone
Concen: 4.328 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 43 Resp: 7935
Ion Ratio Lower Upper
43 100
58 37.2 28.9 43.3





#52

Toluene

Concen: 1.032 ug/l

RT: 8.720 min Scan# 1251

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 92 Resp: 302

Ion Ratio Lower Upper

92 100

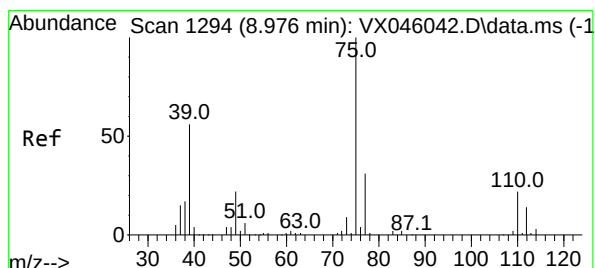
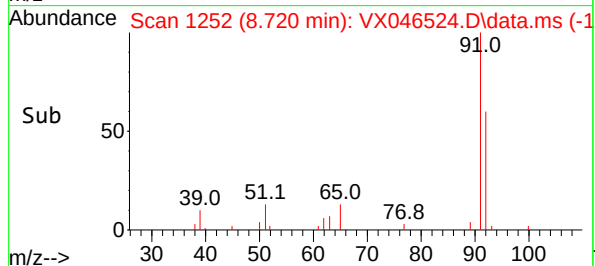
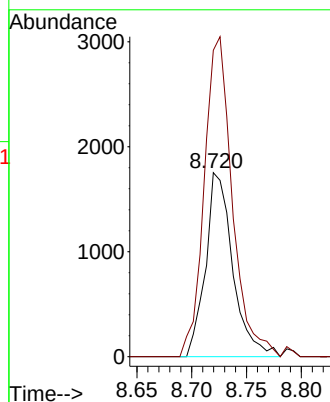
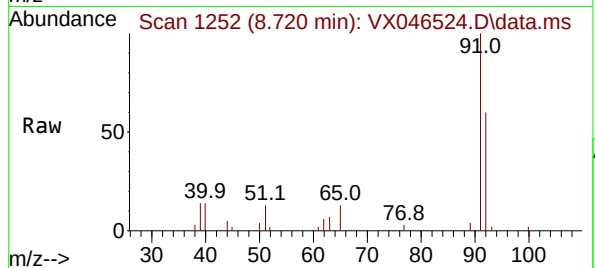
91 179.3 136.6 205.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#53

t-1,3-Dichloropropene

Concen: 0.907 ug/l

RT: 8.988 min Scan# 1296

Delta R.T. 0.006 min

Lab File: VX046524.D

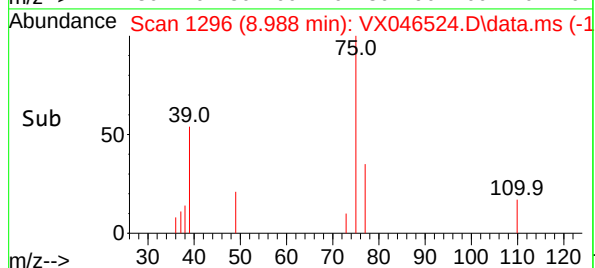
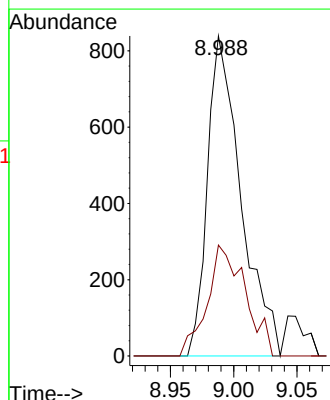
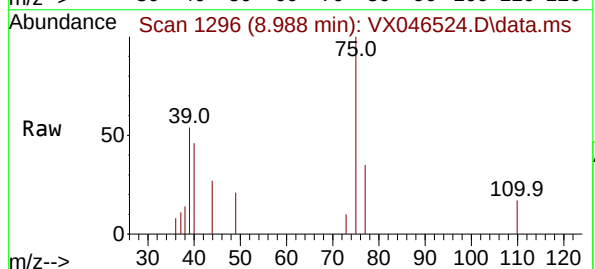
Acq: 06 Jun 2025 12:57

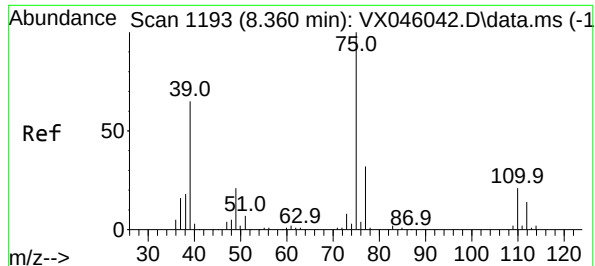
Tgt Ion: 75 Resp: 1550

Ion Ratio Lower Upper

75 100

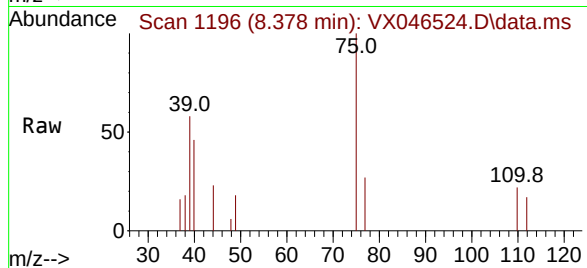
77 34.7 25.0 37.6





#54
cis-1,3-Dichloropropene
Concen: 0.964 ug/l
RT: 8.378 min Scan# 1196
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

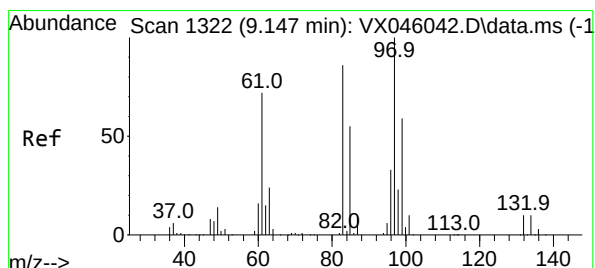
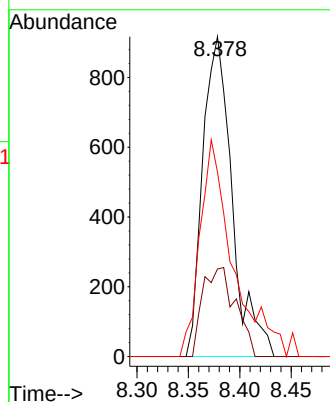
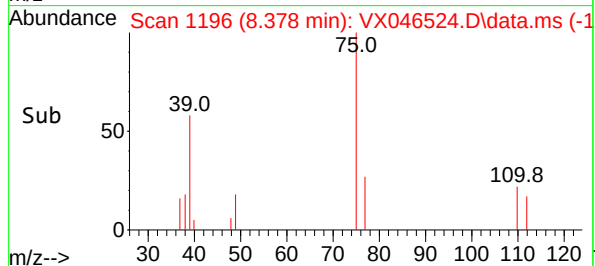
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 75 Resp: 183
Ion Ratio Lower Upper
75 100
77 27.4 25.4 38.0
39 57.7 52.2 78.4

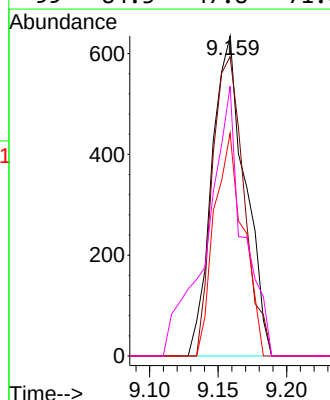
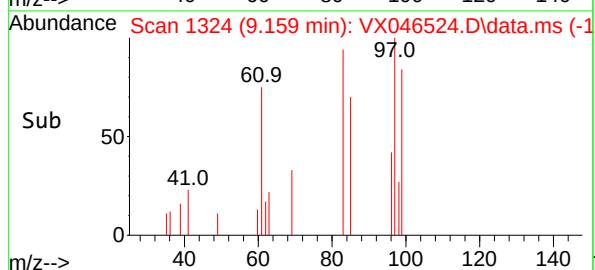
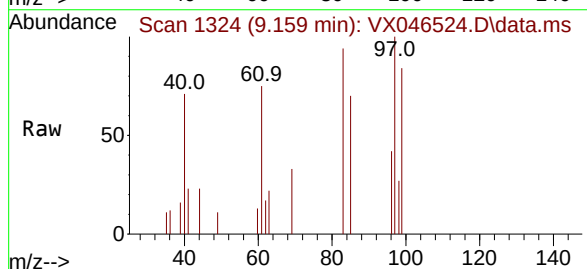
Manual Integrations
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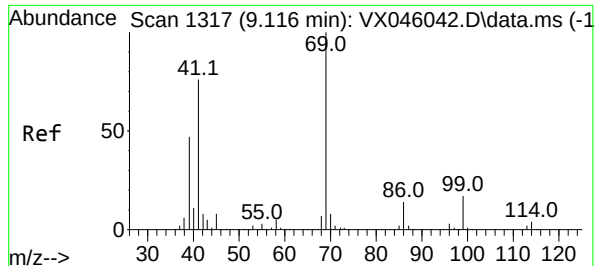
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#55
1,1,2-Trichloroethane
Concen: 0.908 ug/l
RT: 9.159 min Scan# 1324
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 97 Resp: 1069
Ion Ratio Lower Upper
97 100
83 93.5 69.0 103.6
85 69.6 44.3 66.5#
99 84.3 47.8 71.6#





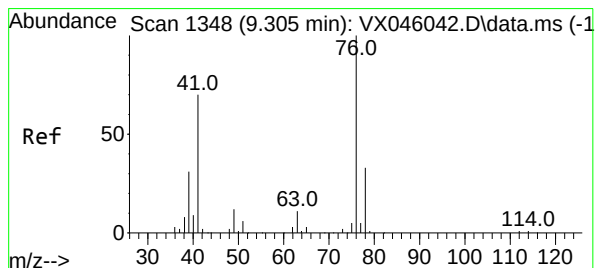
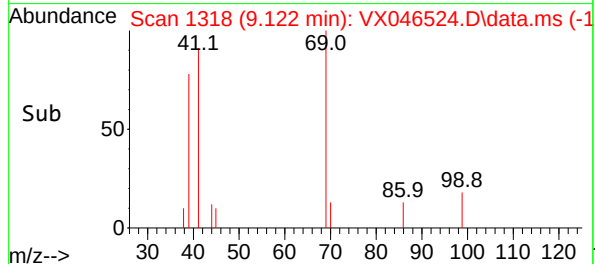
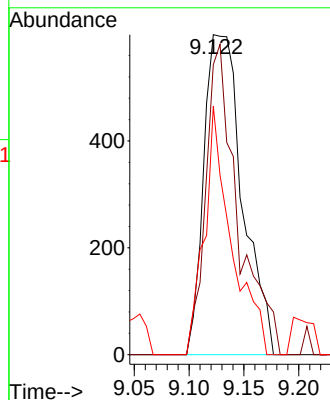
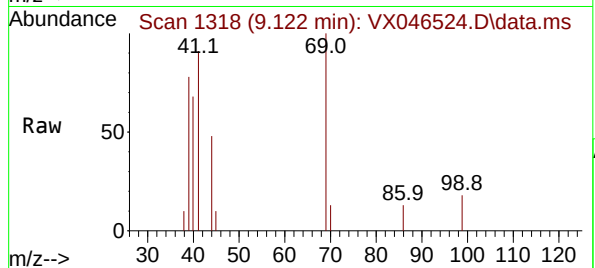
#56
Ethyl methacrylate
Concen: 0.812 ug/l
RT: 9.122 min Scan# 1317
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

Tgt Ion: 69 Resp: 147
Ion Ratio Lower Upper
69 100
41 80.5 60.8 91.2
39 54.2 39.0 58.6

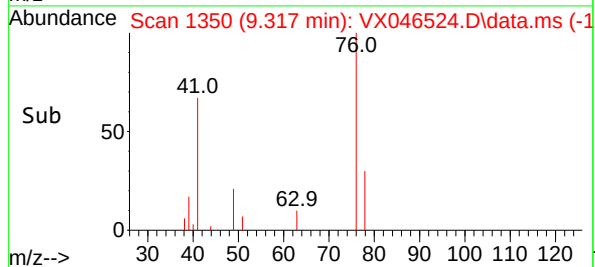
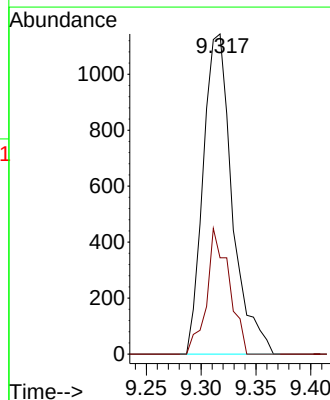
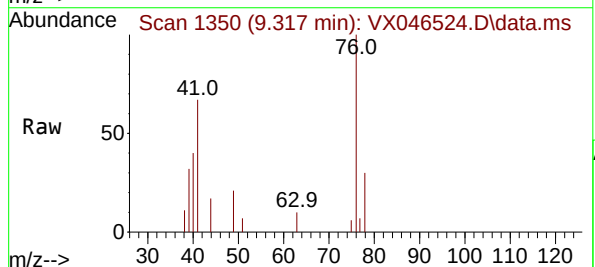
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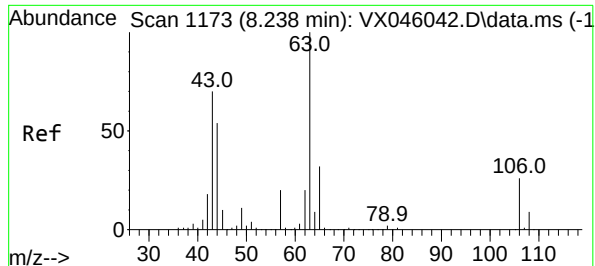
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#57
1,3-Dichloropropane
Concen: 1.014 ug/l
RT: 9.317 min Scan# 1350
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 76 Resp: 2109
Ion Ratio Lower Upper
76 100
78 30.2 26.3 39.5





#58

2-Chloroethyl Vinyl ether

Concen: 4.540 ug/l

RT: 8.250 min Scan# 1173

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion: 63 Resp: 4480

Ion Ratio Lower Upper

63 100

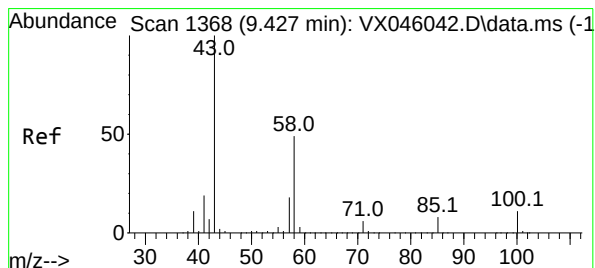
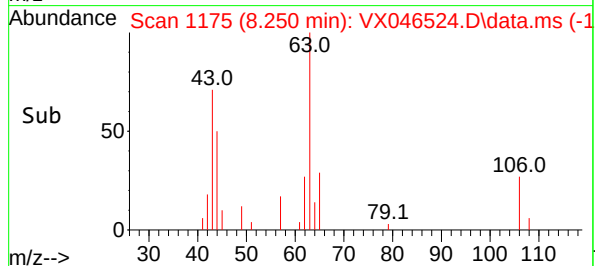
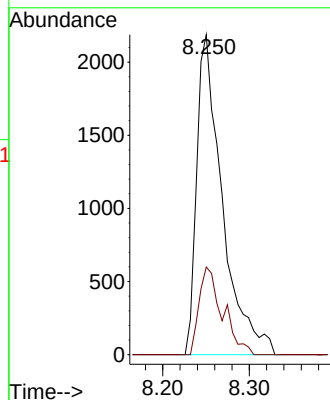
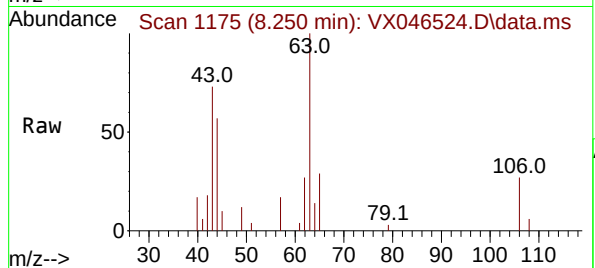
106 25.1 21.5 32.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#59

2-Hexanone

Concen: 4.515 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX046524.D

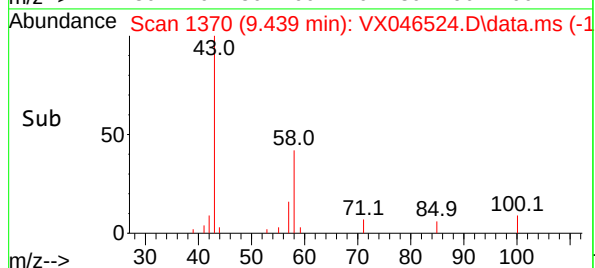
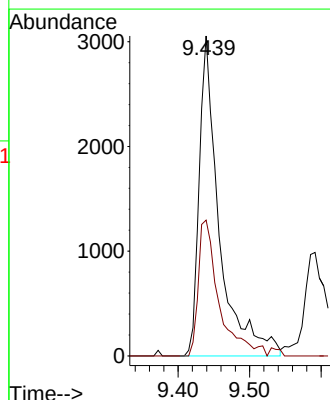
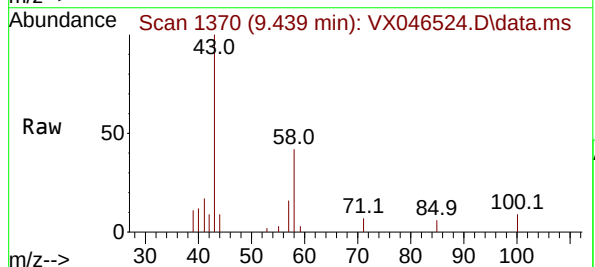
Acq: 06 Jun 2025 12:57

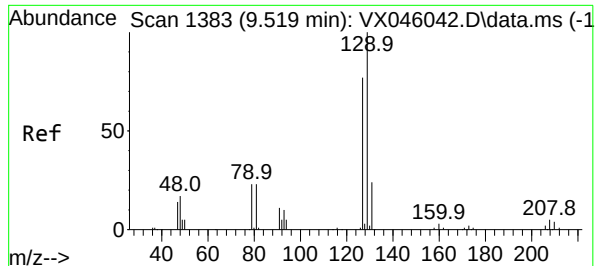
Tgt Ion: 43 Resp: 5937

Ion Ratio Lower Upper

43 100

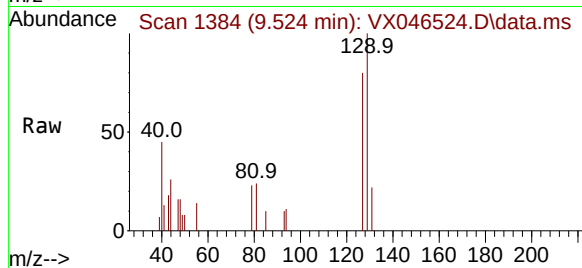
58 43.8 24.9 74.6





#60
Dibromochloromethane
Concen: 0.944 ug/l
RT: 9.524 min Scan# 1384
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

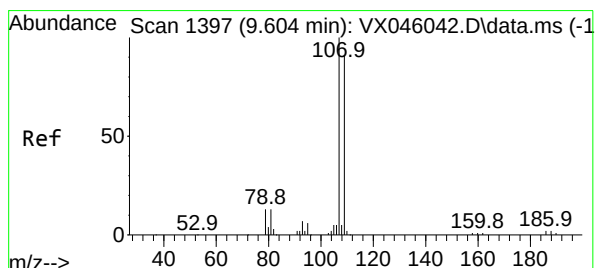
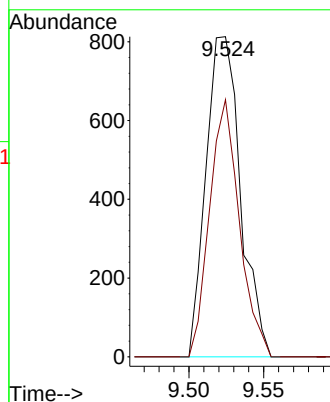
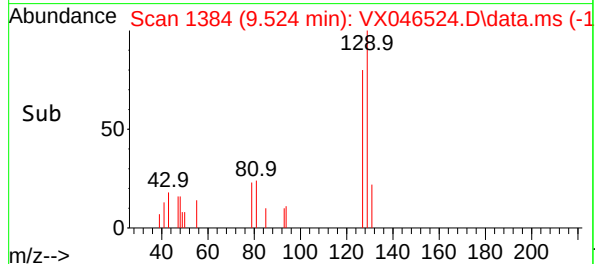
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:129 Resp: 1307
Ion Ratio Lower Upper
129 100
127 69.3 39.3 117.8

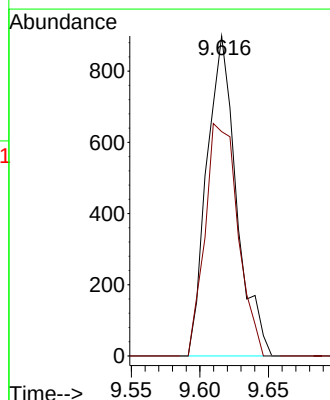
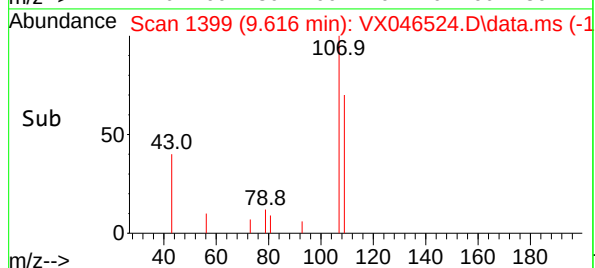
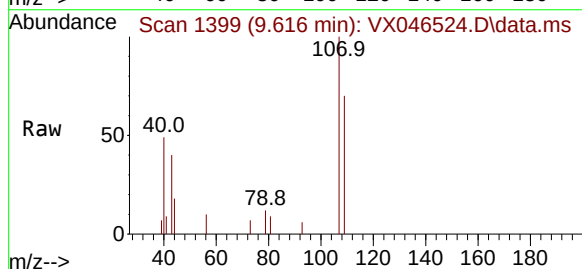
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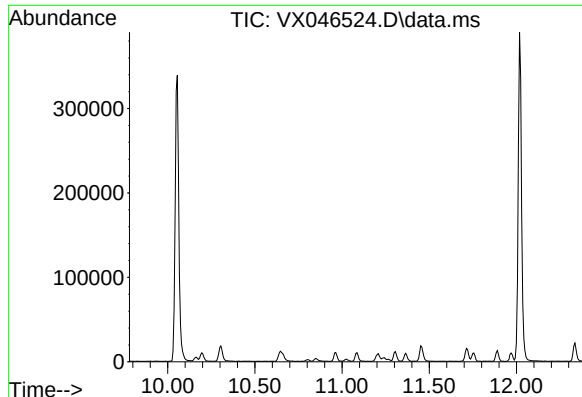
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#61
1,2-Dibromoethane
Concen: 1.105 ug/l
RT: 9.616 min Scan# 1399
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion:107 Resp: 1355
Ion Ratio Lower Upper
107 100
109 80.7 73.3 109.9





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

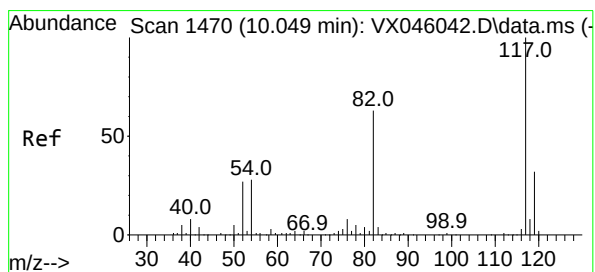
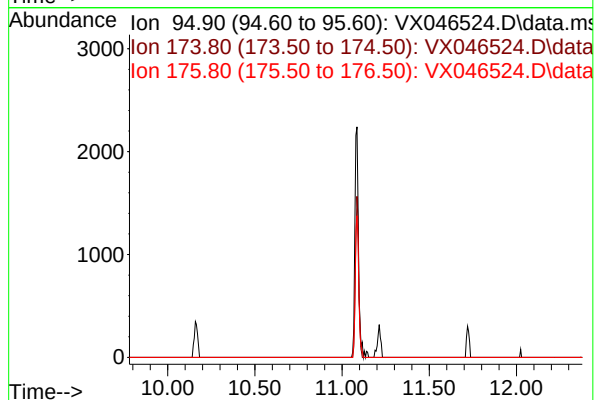
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001

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

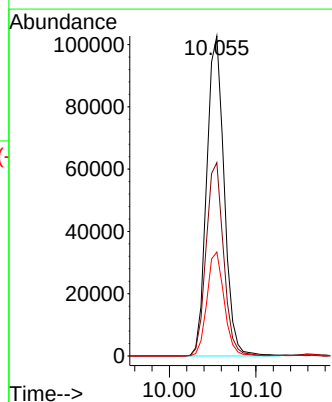
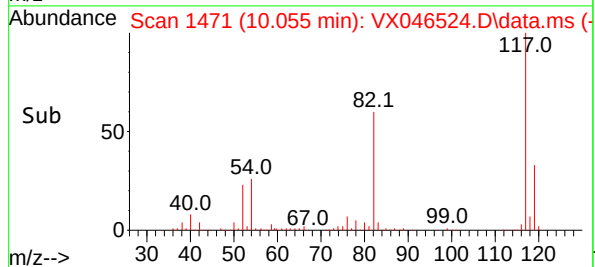
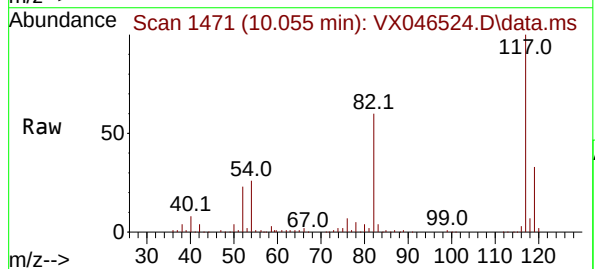
Manual Integrations
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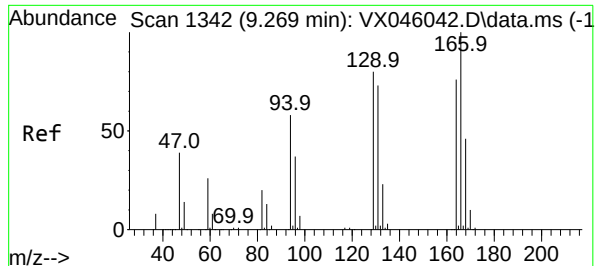
Reviewed By : John Carlone 06/09/2025
Supervised By : Mahesh Dadoda 06/09/2025



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

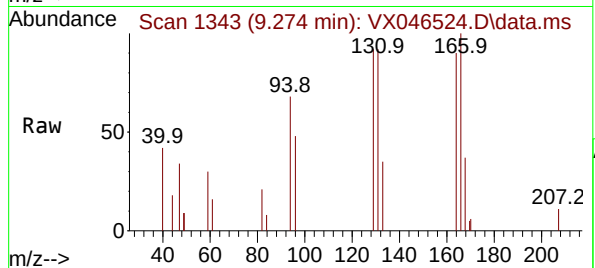
Tgt Ion: 117 Resp: 144029
Ion Ratio Lower Upper
117 100
82 60.4 50.6 76.0
119 32.5 25.8 38.6





#64
Tetrachloroethene
Concen: 1.227 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

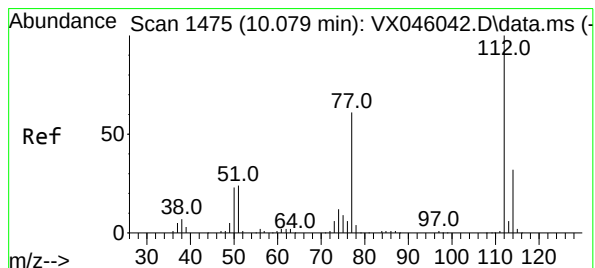
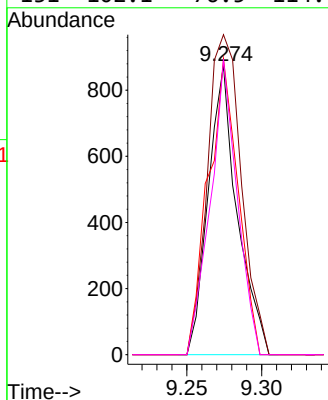
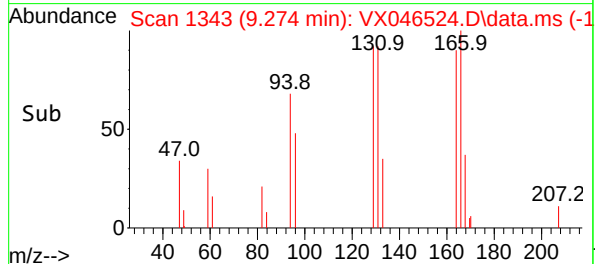
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion:164 Resp: 1182
Ion Ratio Lower Upper
164 100
166 110.6 105.0 157.6
129 102.3 83.5 125.3
131 102.1 76.5 114.7

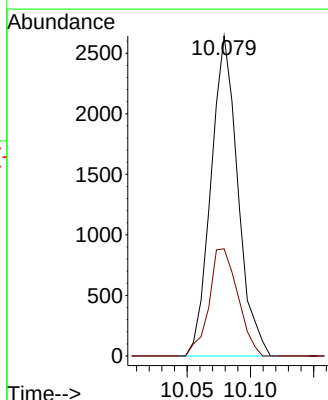
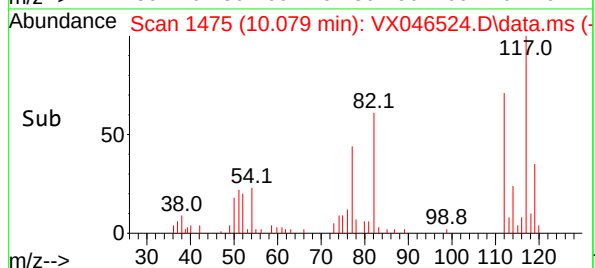
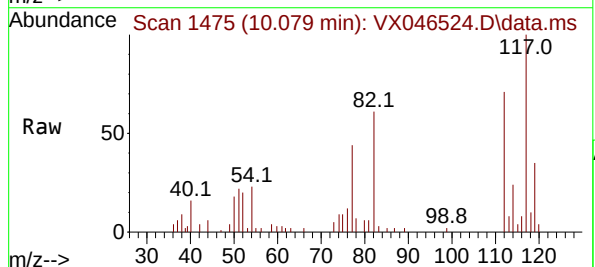
Manual Integrations
APPROVED

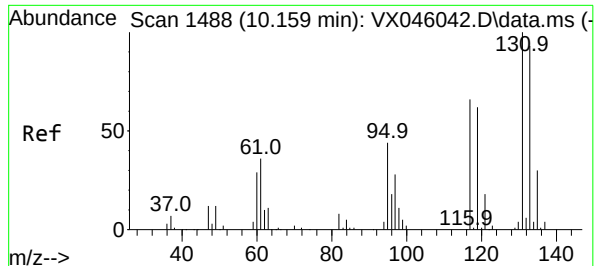
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#65
Chlorobenzene
Concen: 1.153 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

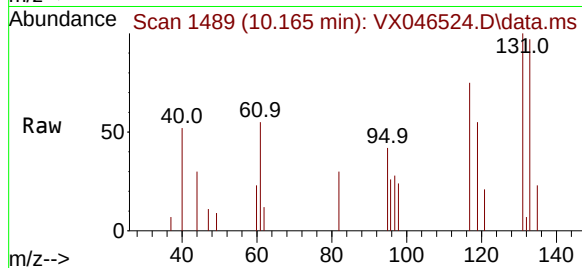
Tgt Ion:112 Resp: 3905
Ion Ratio Lower Upper
112 100
114 33.5 25.4 38.2





#66
1,1,1,2-Tetrachloroethane
Concen: 0.910 ug/l
RT: 10.165 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

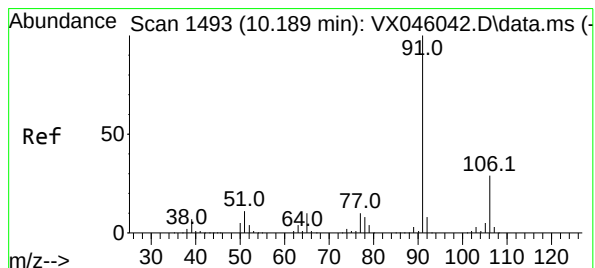
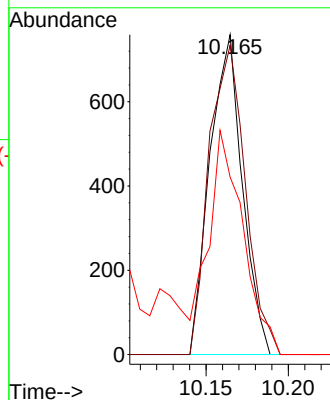
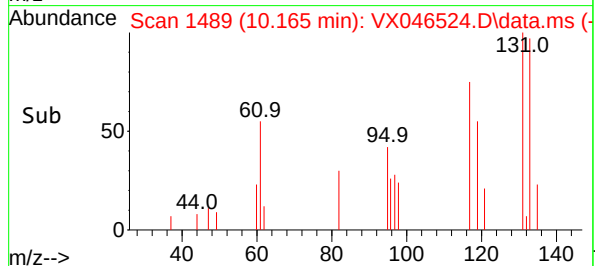
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:131 Resp: 1042
Ion Ratio Lower Upper
131 100
133 107.8 47.3 141.9
119 0.0 31.6 95.0

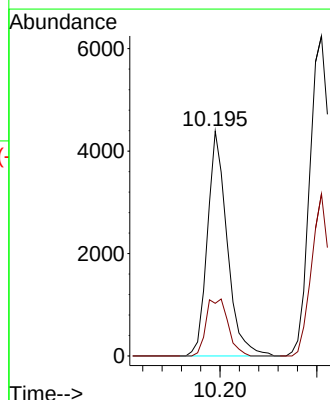
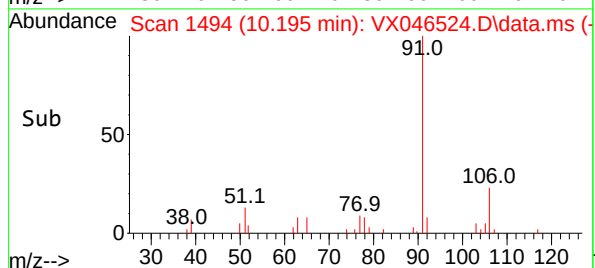
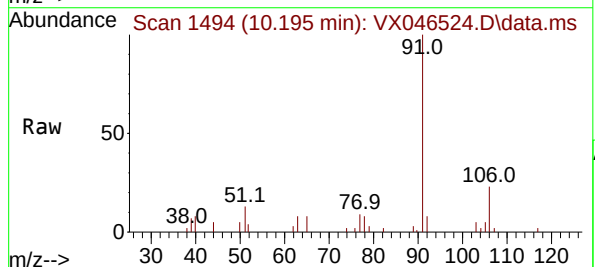
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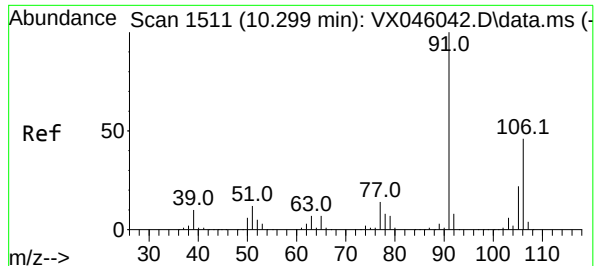
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#67
Ethyl Benzene
Concen: 1.055 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 91 Resp: 6238
Ion Ratio Lower Upper
91 100
106 23.4 23.4 35.2#





#68

m/p-Xylenes

Concen: 2.076 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:106 Resp: 4454

Ion Ratio Lower Upper

106 100

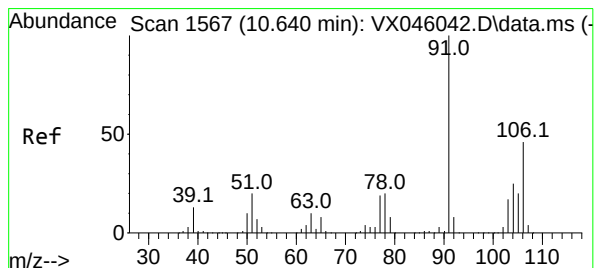
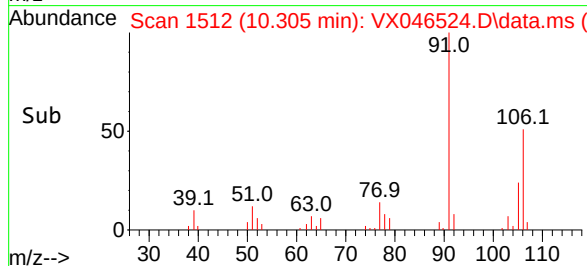
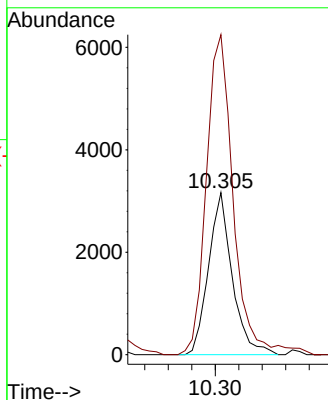
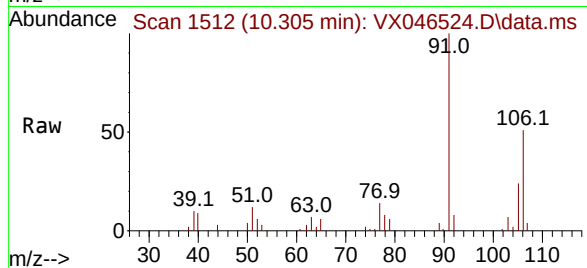
91 223.5 171.2 256.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#69

o-Xylene

Concen: 0.999 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. -0.000 min

Lab File: VX046524.D

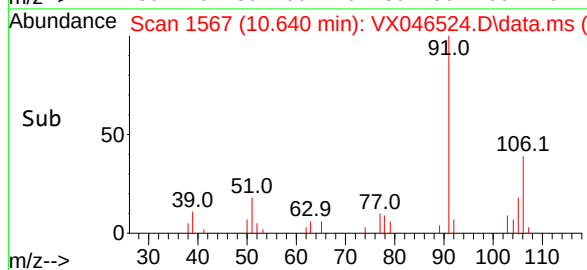
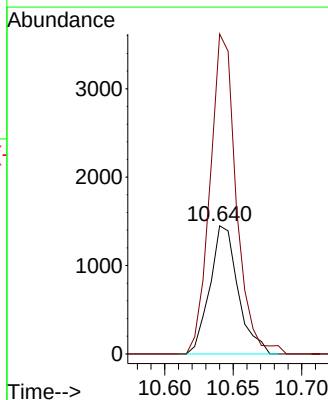
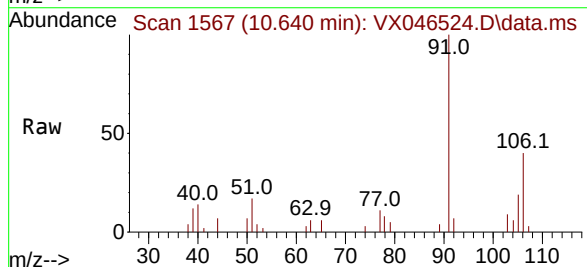
Acq: 06 Jun 2025 12:57

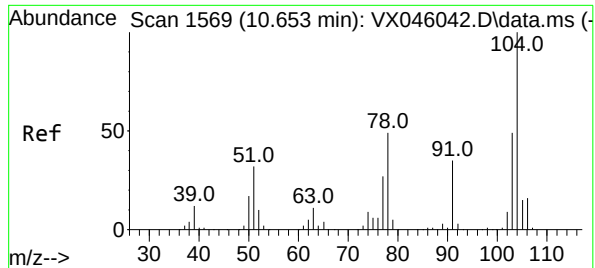
Tgt Ion:106 Resp: 2072

Ion Ratio Lower Upper

106 100

91 232.2 112.7 338.1





#70

Styrene

Concen: 0.980 ug/l

RT: 10.658 min Scan# 1570

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

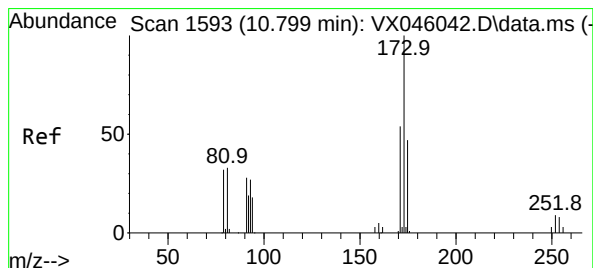
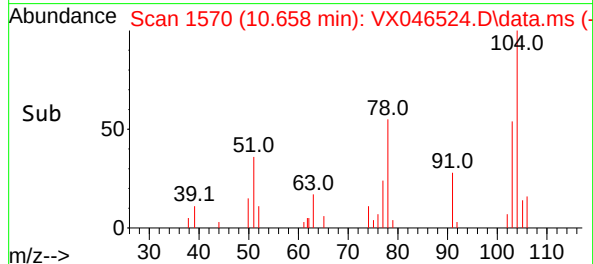
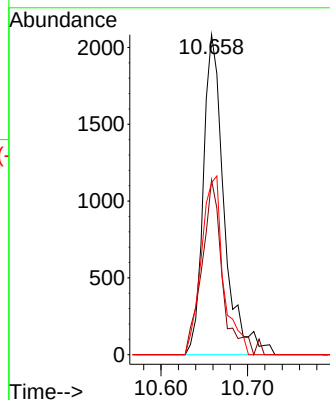
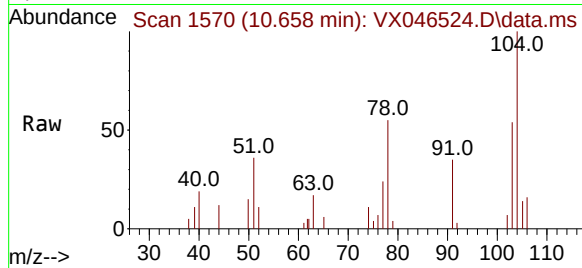
VSTDIC001

Tgt Ion:104	Resp:	348
Ion Ratio	Lower	Upper
104	100	
78	54.5	45.7 68.5
103	59.0	43.7 65.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#71

Bromoform

Concen: 0.944 ug/l

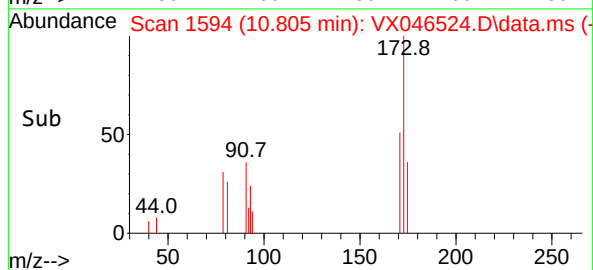
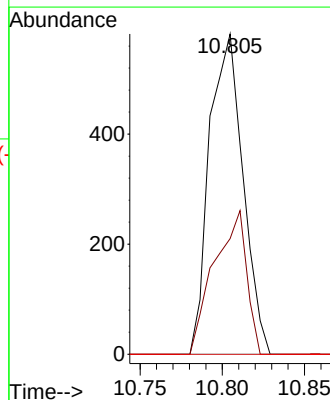
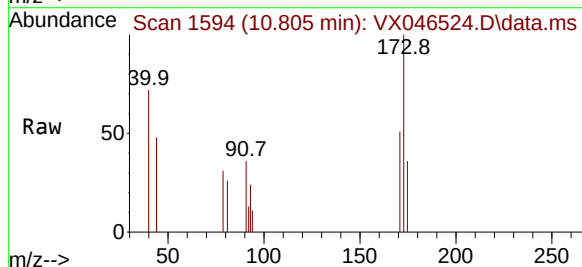
RT: 10.805 min Scan# 1594

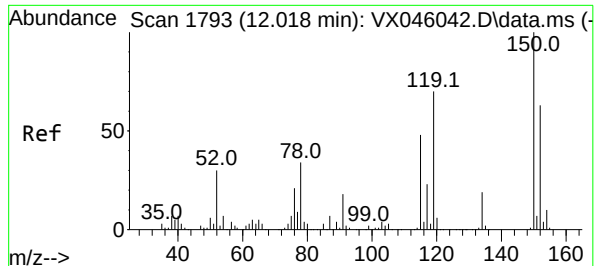
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

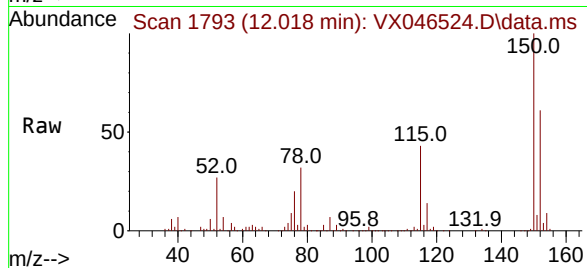
Tgt Ion:173	Resp:	824
Ion Ratio	Lower	Upper
173	100	
175	43.4	23.4 70.0
254	0.0	0.0 0.0





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

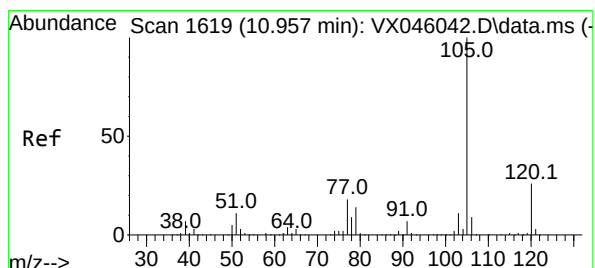
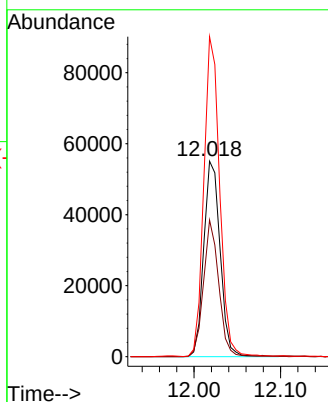
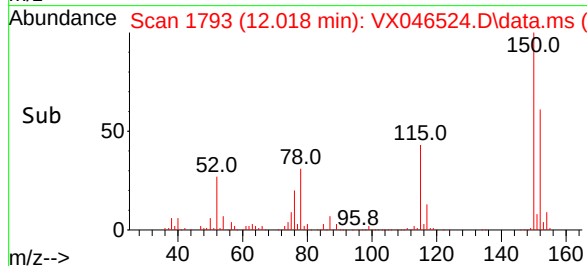
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:152 Resp: 72344
Ion Ratio Lower Upper
152 100
115 65.2 46.9 140.7
150 157.5 0.0 351.0

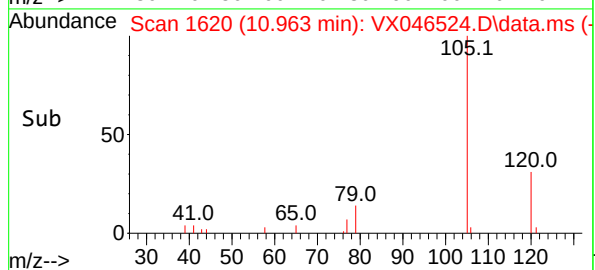
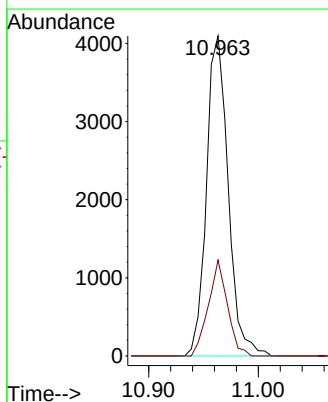
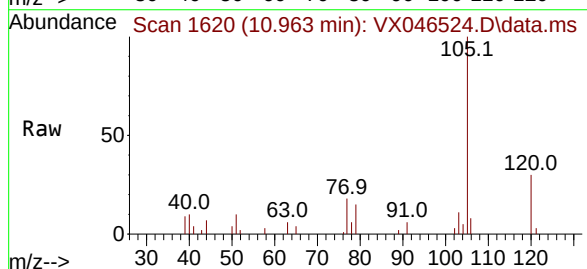
Manual Integrations
APPROVED

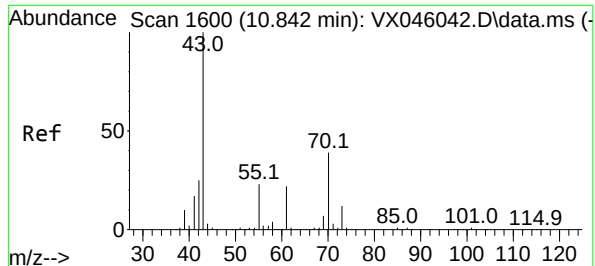
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#73
Isopropylbenzene
Concen: 0.991 ug/l
RT: 10.963 min Scan# 1620
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

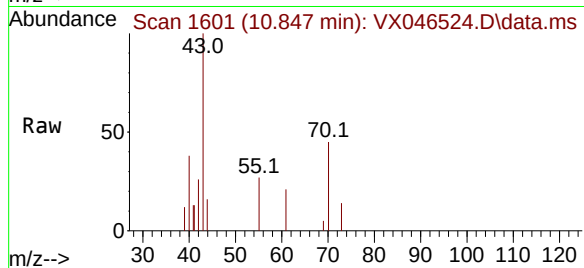
Tgt Ion:105 Resp: 5637
Ion Ratio Lower Upper
105 100
120 26.3 12.8 38.4





#74
N-amy1 acetate
Concen: 0.823 ug/l
RT: 10.847 min Scan# 1600
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

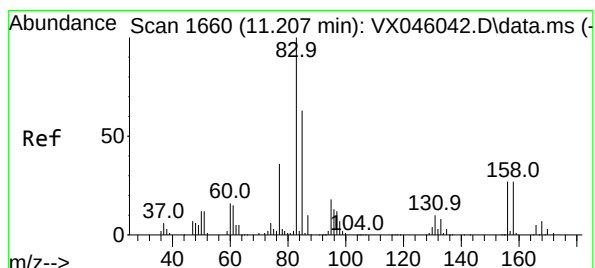
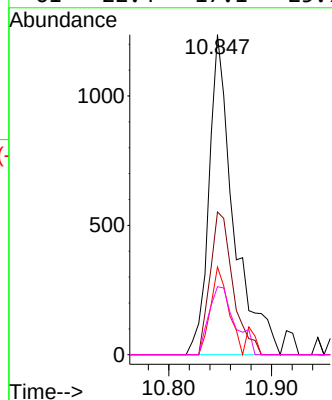
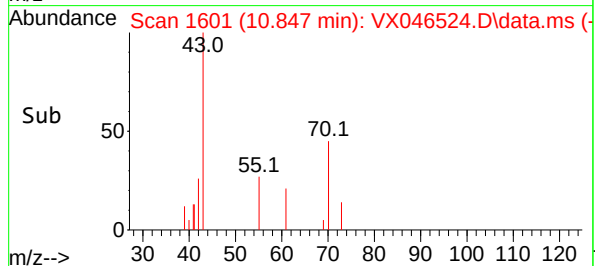
Instrument :
MSVOA_X
ClientSampleId :
VSTDIC001



Tgt Ion: 43 Resp: 2060
Ion Ratio Lower Upper
43 100
70 41.4 30.9 46.3
55 19.9 18.7 28.1
61 22.4 17.1 25.7

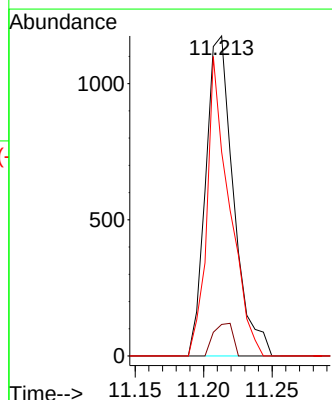
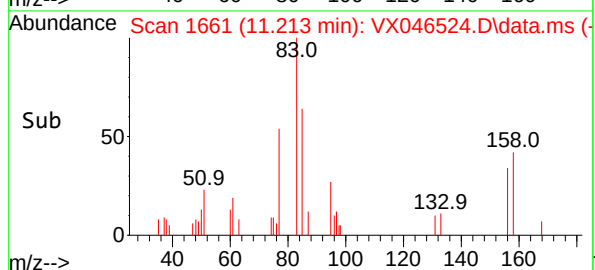
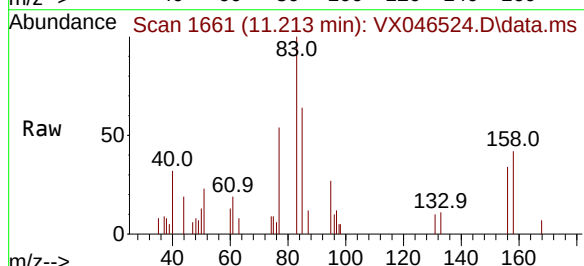
Manual Integrations
APPROVED

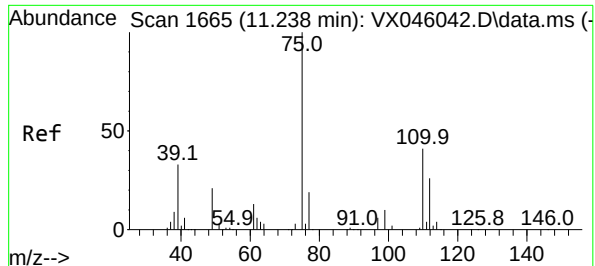
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#75
1,1,2,2-Tetrachloroethane
Concen: 0.912 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 83 Resp: 1661
Ion Ratio Lower Upper
83 100
131 7.1 5.0 14.9
85 75.4 31.9 95.7





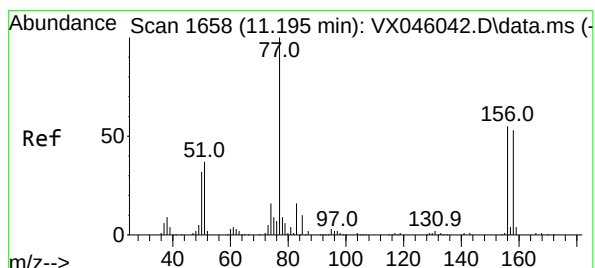
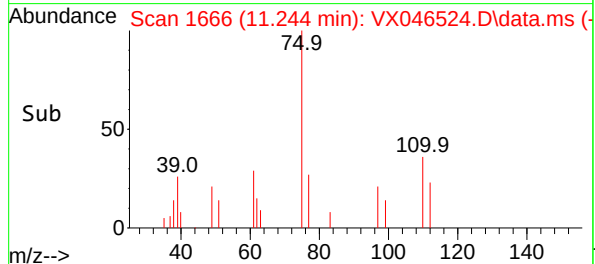
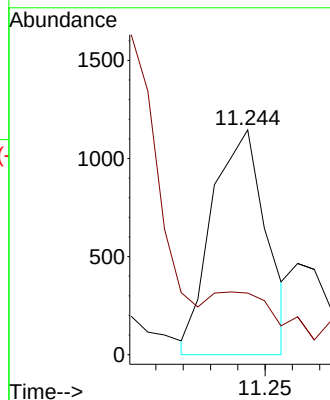
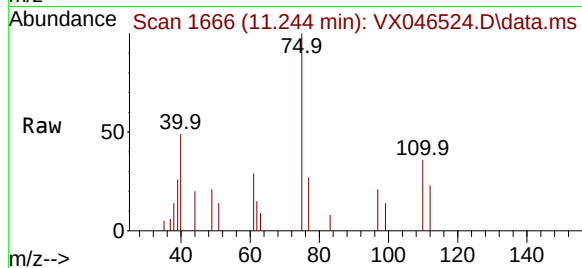
#76
1,2,3-Trichloropropane
Concen: 1.013 ug/l m
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion: 75 Resp: 1578
Ion Ratio Lower Upper
75 100
77 8.4 20.5 61.5

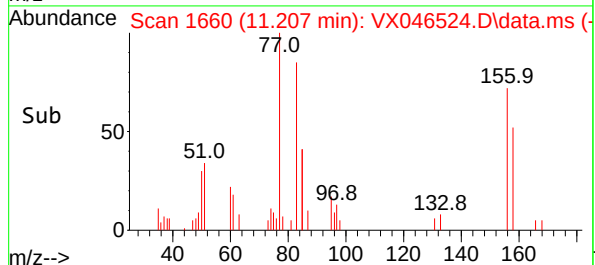
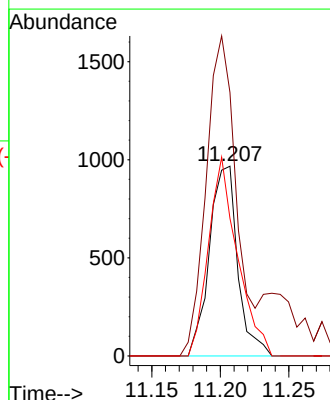
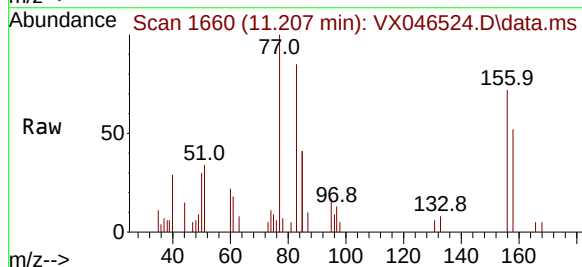
Manual Integrations
APPROVED

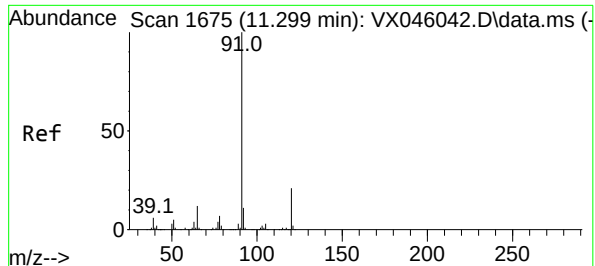
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#77
Bromobenzene
Concen: 1.050 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. 0.012 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion:156 Resp: 1386
Ion Ratio Lower Upper
156 100
77 179.7 92.8 278.3
158 107.9 48.8 146.3





#78

n-propylbenzene

Concen: 1.062 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion: 91 Resp: 7308

Ion Ratio Lower Upper

91 100

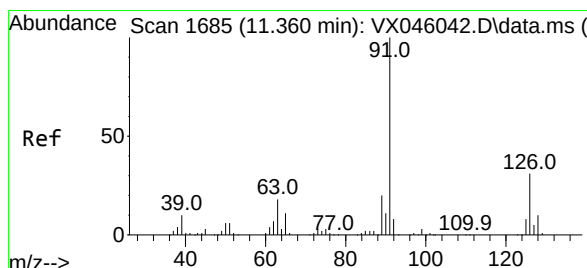
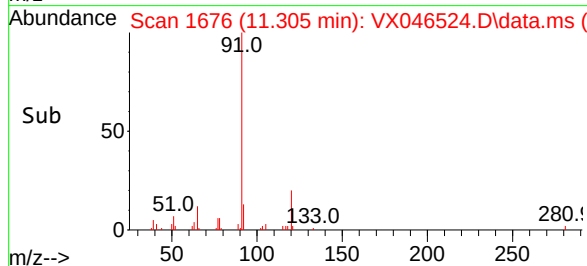
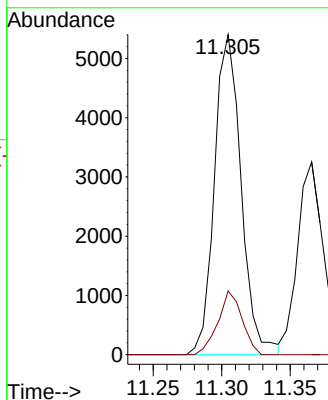
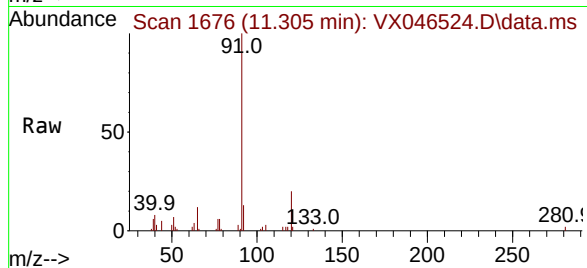
120 18.0 10.8 32.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#79

2-Chlorotoluene

Concen: 1.076 ug/l

RT: 11.366 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VX046524.D

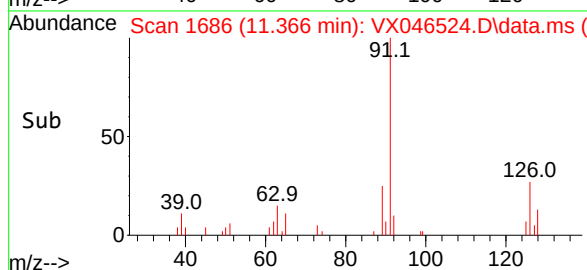
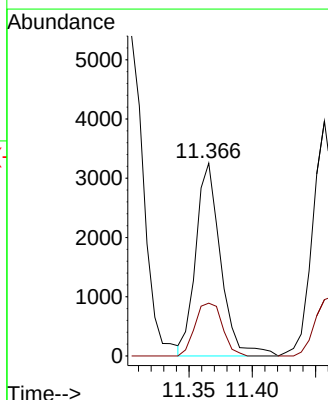
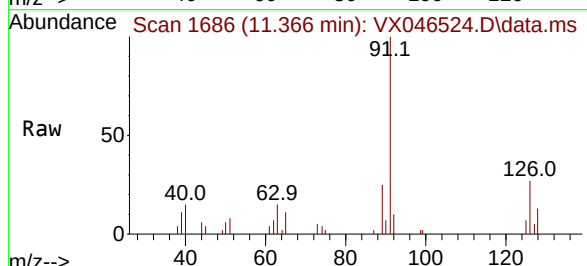
Acq: 06 Jun 2025 12:57

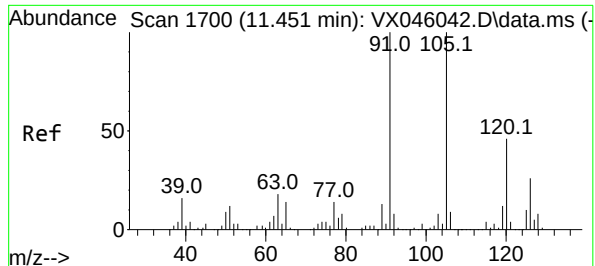
Tgt Ion: 91 Resp: 4466

Ion Ratio Lower Upper

91 100

126 30.2 15.6 46.7





#80

1,3,5-Trimethylbenzene

Concen: 1.014 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:105 Resp: 4800

Ion Ratio Lower Upper

105 100

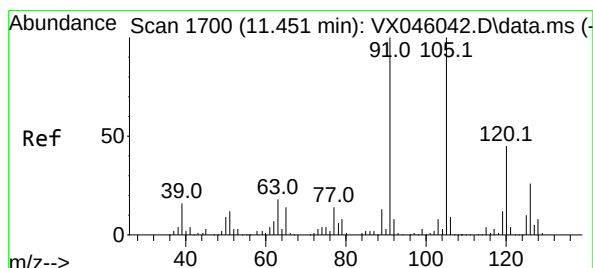
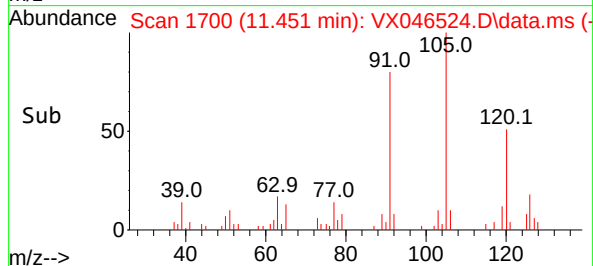
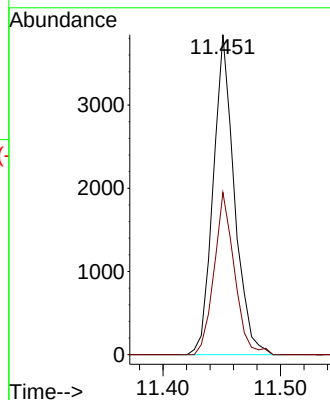
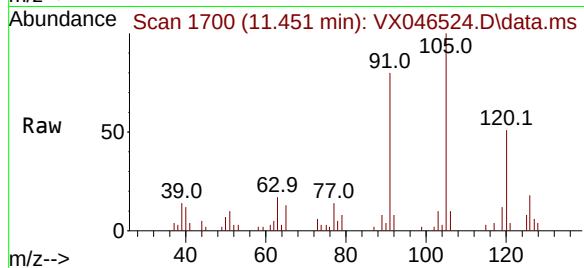
120 48.9 23.1 69.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#82

4-Chlorotoluene

Concen: 1.139 ug/l

RT: 11.457 min Scan# 1701

Delta R.T. 0.006 min

Lab File: VX046524.D

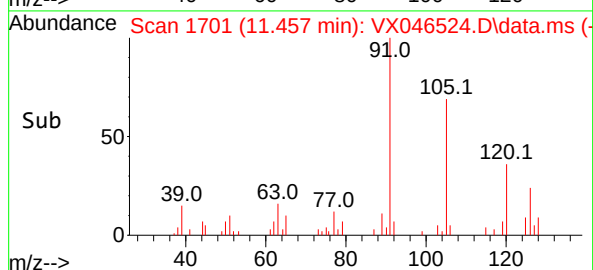
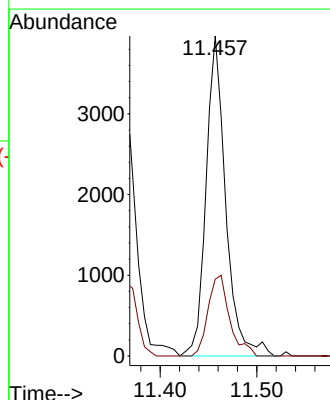
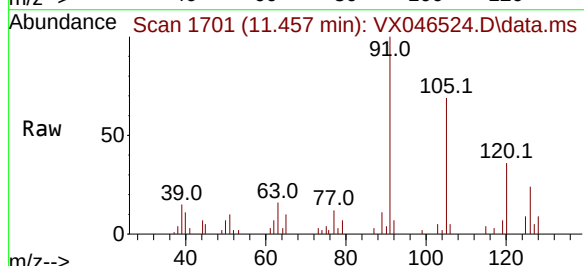
Acq: 06 Jun 2025 12:57

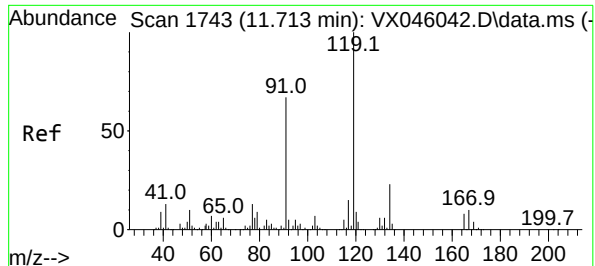
Tgt Ion: 91 Resp: 5603

Ion Ratio Lower Upper

91 100

126 27.6 13.3 39.8





#83

tert-Butylbenzene

Concen: 0.985 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

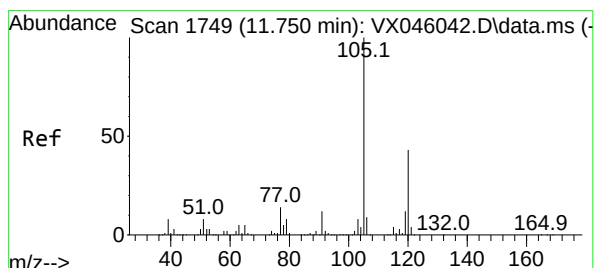
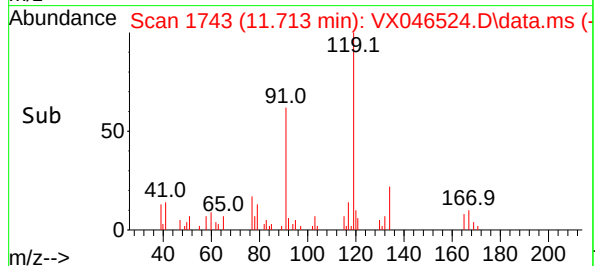
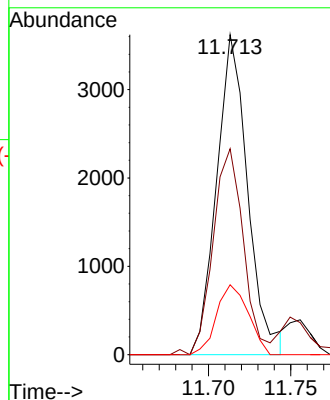
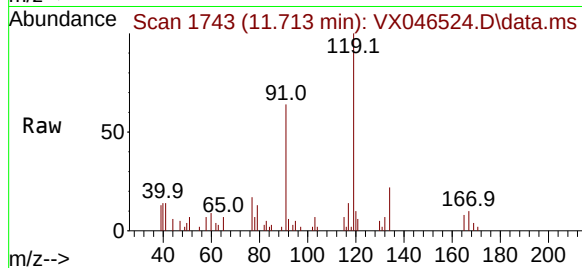
Tgt Ion:	119	Resp:	475
Ion	Ratio	Lower	Upper
119	100		
91	63.1	32.9	98.7
134	22.4	11.4	34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#84

1,2,4-Trimethylbenzene

Concen: 1.028 ug/l

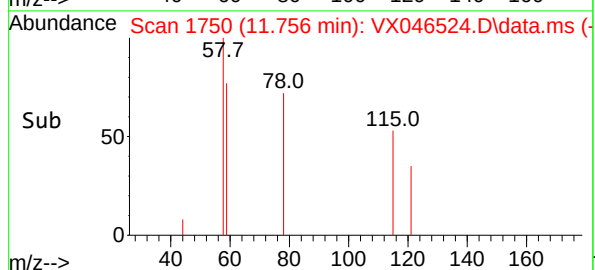
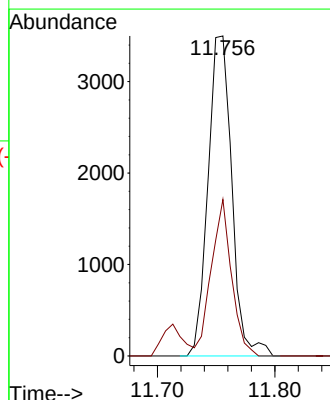
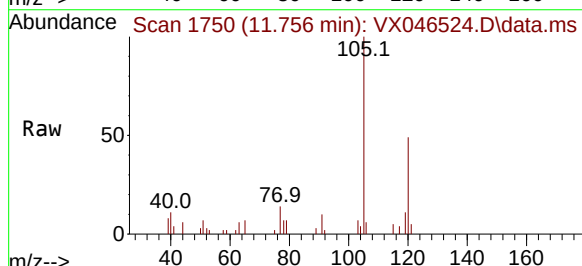
RT: 11.756 min Scan# 1750

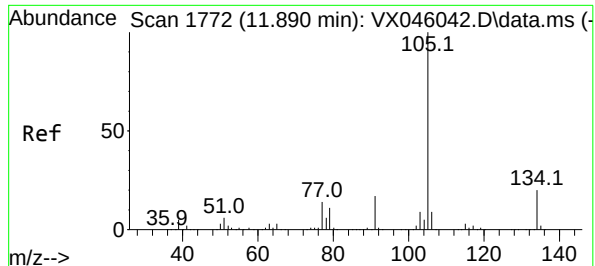
Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	105	Resp:	4928
Ion	Ratio	Lower	Upper
105	100		
120	41.7	21.2	63.6





#85

sec-Butylbenzene

Concen: 1.041 ug/l

RT: 11.890 min Scan# 1772

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDICC001

Tgt Ion:105 Resp: 6450

Ion Ratio Lower Upper

105 100

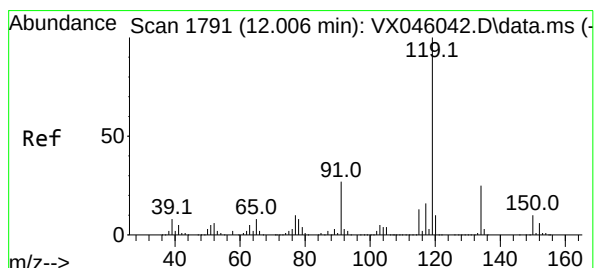
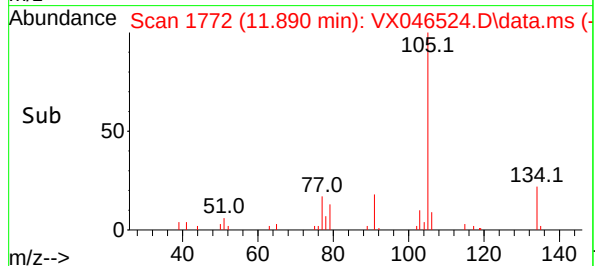
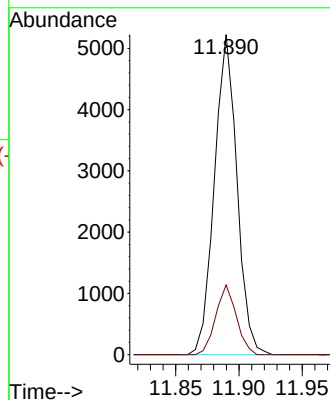
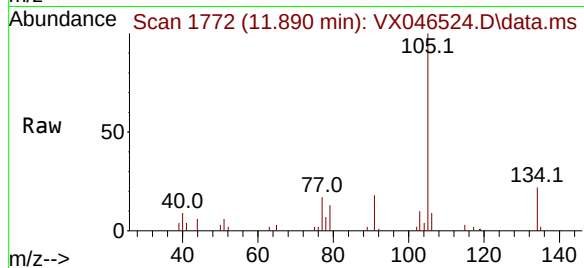
134 19.9 9.7 29.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#86

p-Isopropyltoluene

Concen: 1.095 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

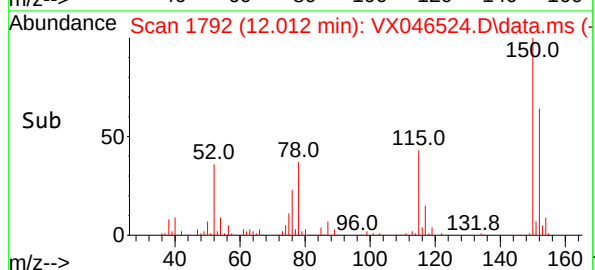
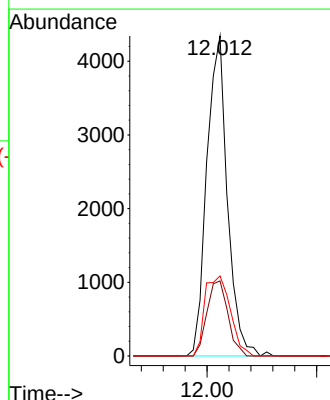
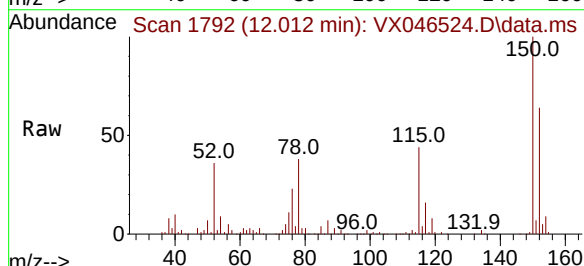
Tgt Ion:119 Resp: 5657

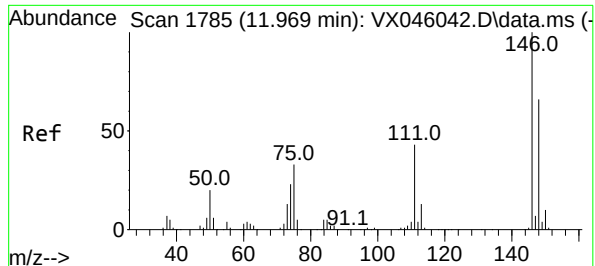
Ion Ratio Lower Upper

119 100

134 23.9 12.5 37.5

91 30.9 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 1.188 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

Tgt Ion:146 Resp: 3049

Ion Ratio Lower Upper

146 100

111 48.8 22.1 66.3

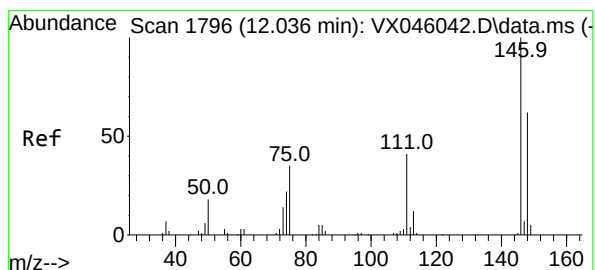
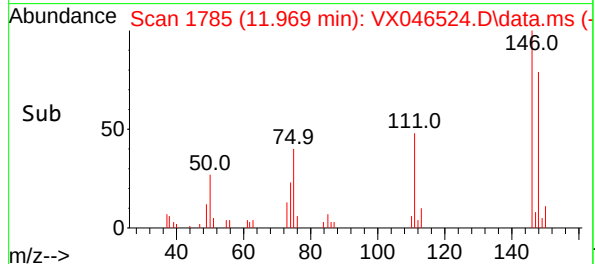
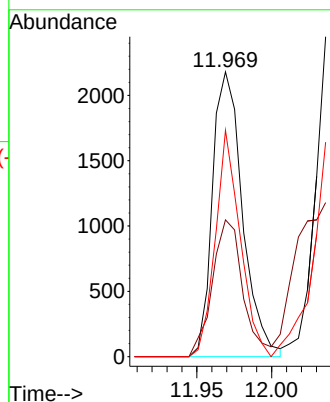
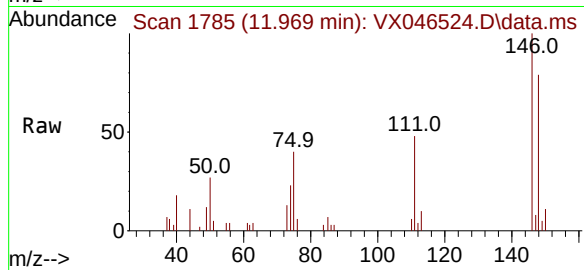
148 65.5 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#88

1,4-Dichlorobenzene

Concen: 1.319 ug/l m

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

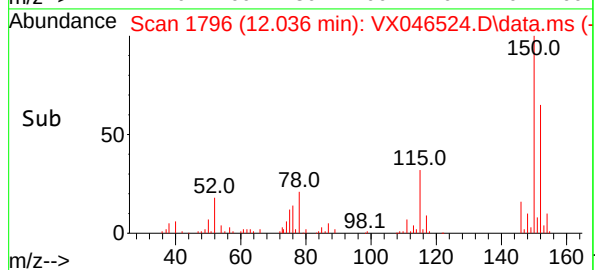
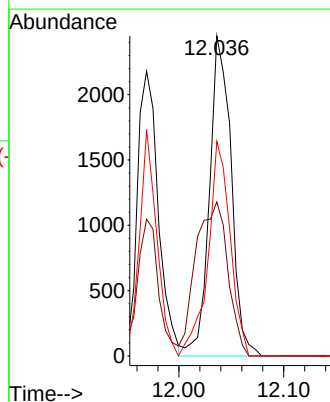
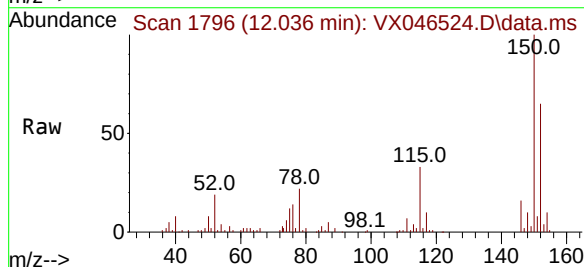
Tgt Ion:146 Resp: 3503

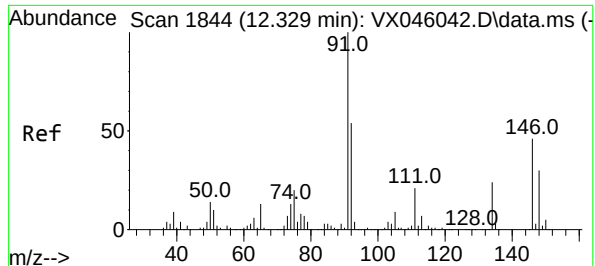
Ion Ratio Lower Upper

146 100

111 42.4 21.3 63.9

148 56.9 31.9 95.5





#89

n-Butylbenzene

Concen: 1.197 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

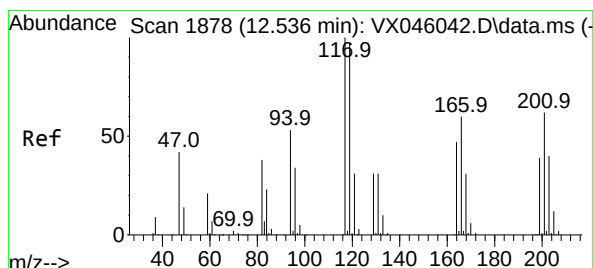
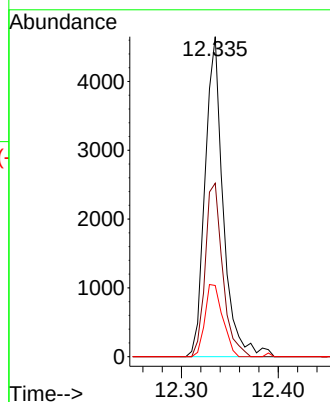
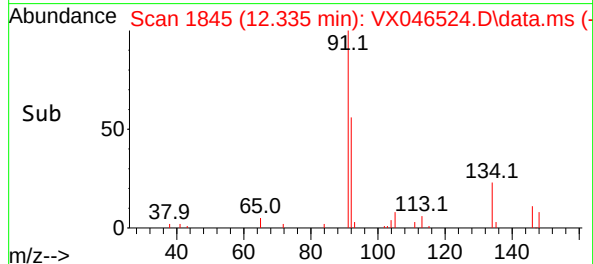
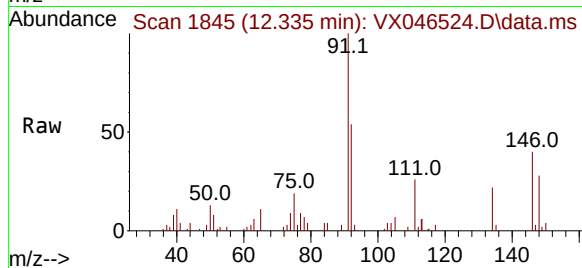
Tgt Ion:	91	Resp:	607
Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.9	80.7
134	22.1	11.8	35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 1.075 ug/l

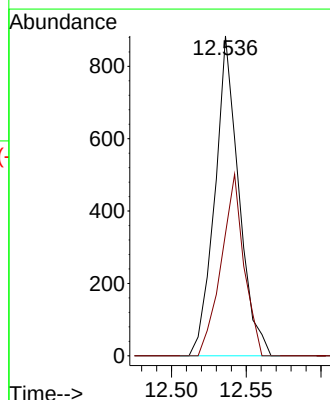
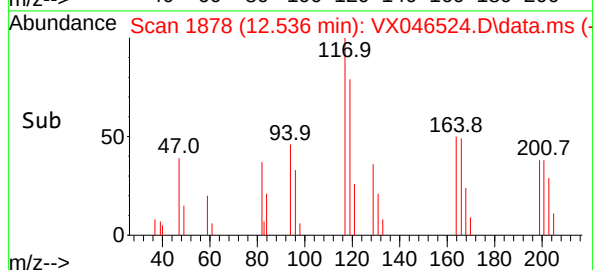
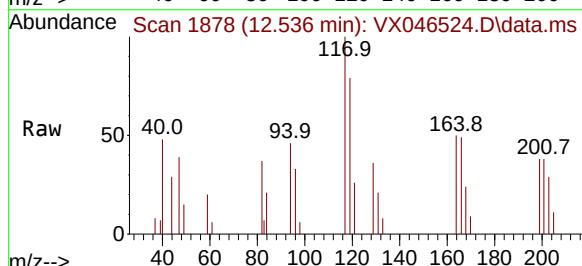
RT: 12.536 min Scan# 1878

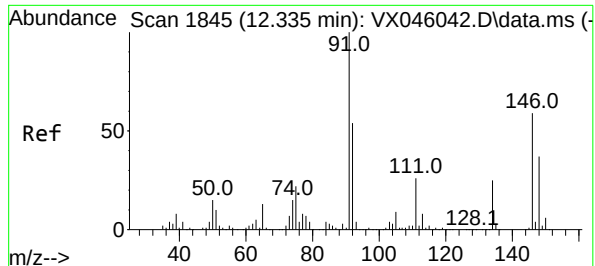
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Tgt Ion:	117	Resp:	987
Ion	Ratio	Lower	Upper
117	100		
201	53.5	31.6	94.7





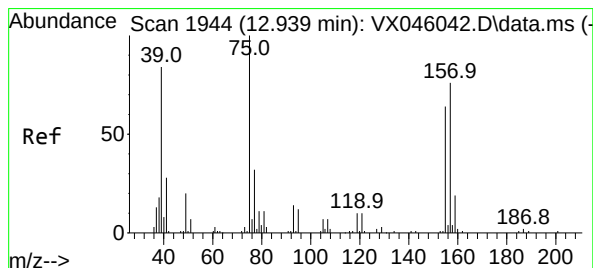
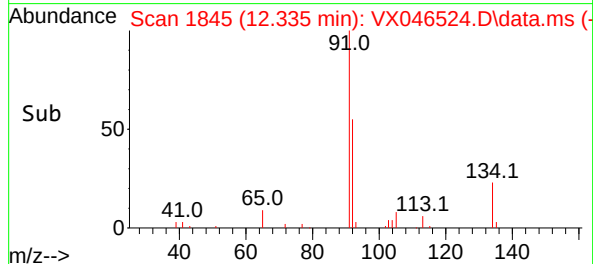
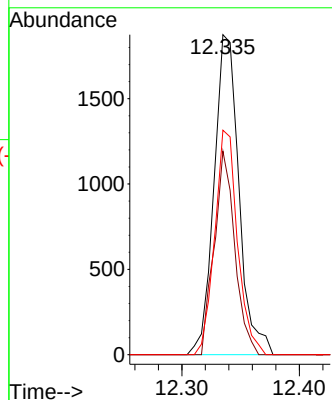
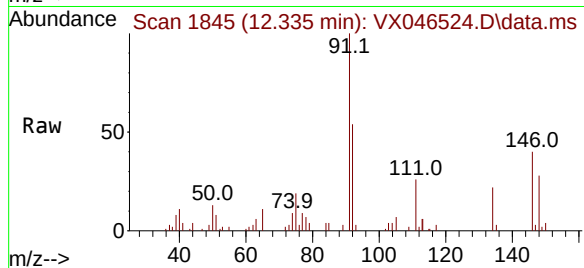
#91
1,2-Dichlorobenzene
Concen: 1.116 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001

Tgt Ion:146 Resp: 276
Ion Ratio Lower Upper
146 100
111 52.6 22.4 67.3
148 64.4 31.6 94.8

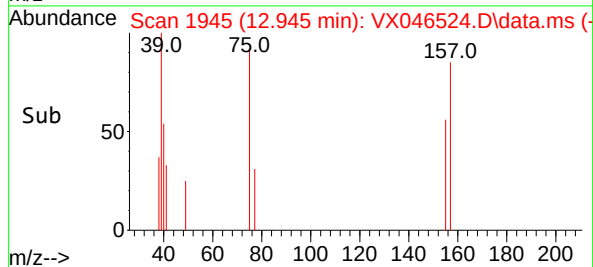
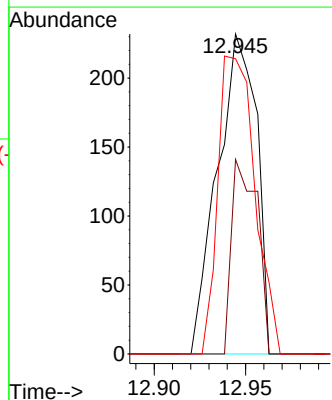
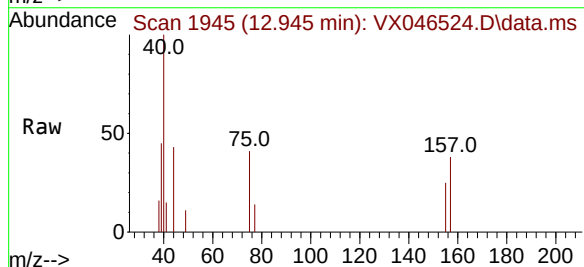
Manual Integrations
APPROVED

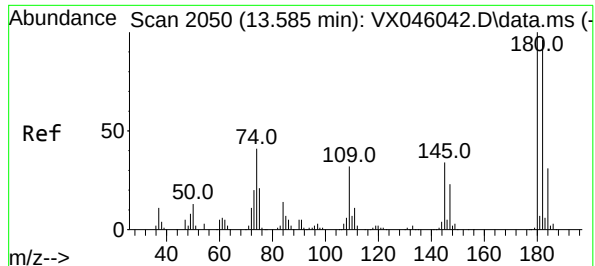
Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.846 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion: 75 Resp: 345
Ion Ratio Lower Upper
75 100
155 40.0 34.9 104.8
157 88.1 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 1.297 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC001

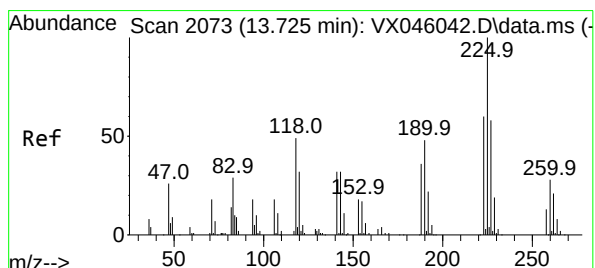
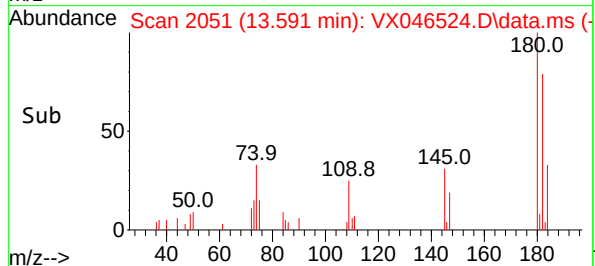
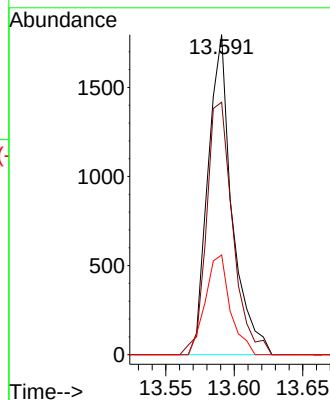
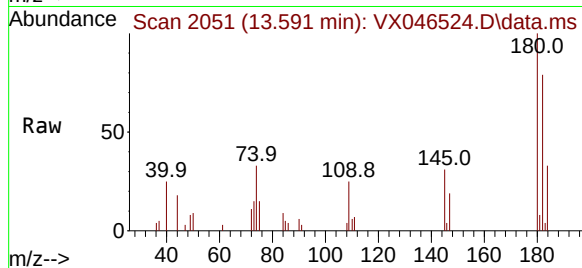
Tgt Ion:180	Resp:	2189
Ion Ratio	Lower	Upper
180	100	
182	86.2	47.9 143.8
145	32.3	17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/09/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 1.283 ug/l

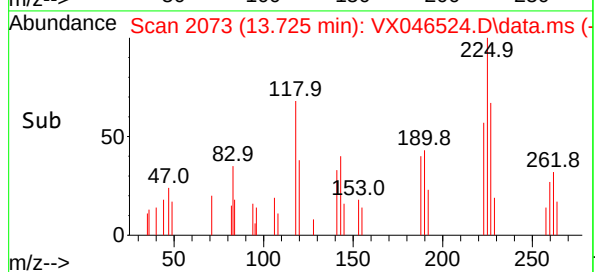
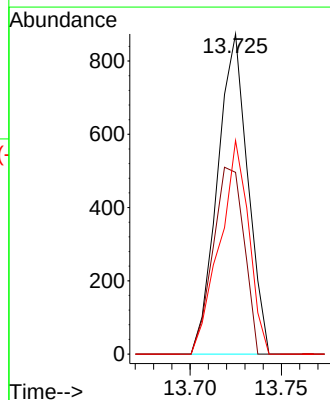
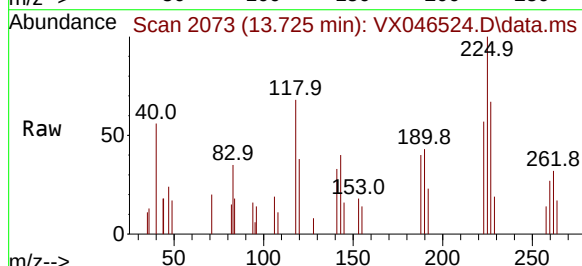
RT: 13.725 min Scan# 2073

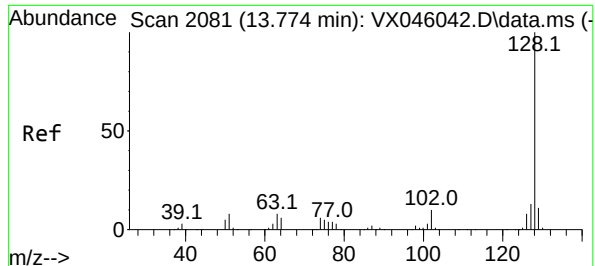
Delta R.T. -0.000 min

Lab File: VX046524.D

Acq: 06 Jun 2025 12:57

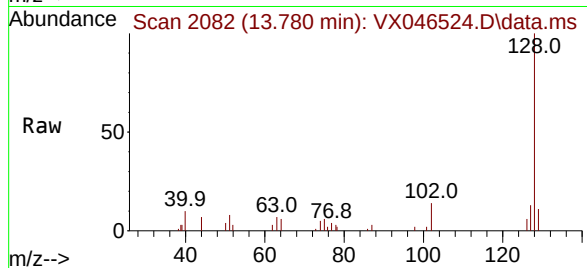
Tgt Ion:225	Resp:	1006
Ion Ratio	Lower	Upper
225	100	
223	59.9	30.8 92.4
227	64.2	30.9 92.7





#95
Naphthalene
Concen: 1.023 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

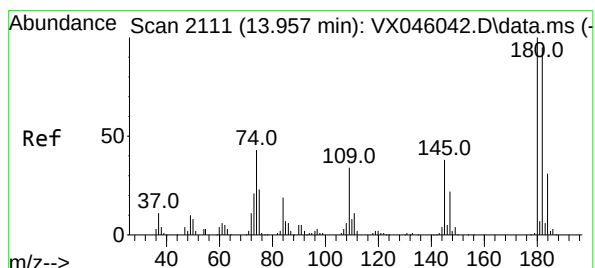
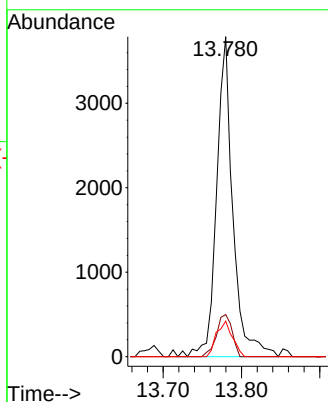
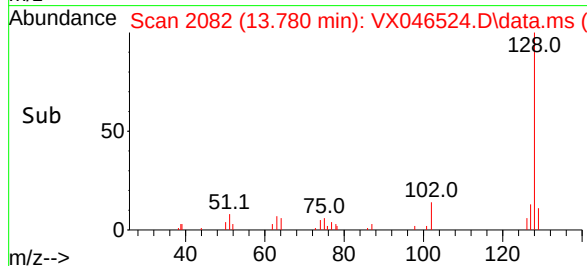
Instrument :
MSVOA_X
ClientSampleId :
VSTDICC001



Tgt Ion:128 Resp: 5474
Ion Ratio Lower Upper
128 100
127 12.6 10.4 15.6
129 10.8 8.6 13.0

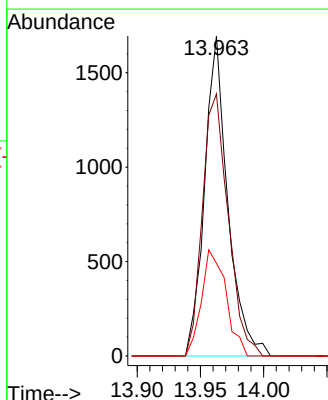
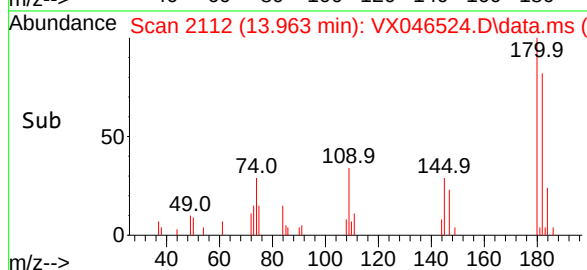
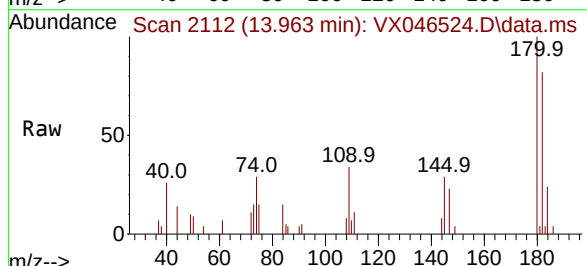
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/09/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 1.283 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX046524.D
Acq: 06 Jun 2025 12:57

Tgt Ion:180 Resp: 2171
Ion Ratio Lower Upper
180 100
182 90.5 47.8 143.3
145 34.9 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX060625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	87638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	151058	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	132539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	65454	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	78349	50.250	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.500%			
35) Dibromofluoromethane	5.391	113	56698	51.039	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.080%			
50) Toluene-d8	8.647	98	183212	50.025	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.040%			
62) 4-Bromofluorobenzene	11.079	95	75584	49.880	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 99.760%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.179	85	59758	49.116	ug/l	98
3) Chloromethane	1.307	50	53337	48.162	ug/l	98
4) Vinyl Chloride	1.386	62	54649	49.502	ug/l	99
5) Bromomethane	1.618	94	34113	50.900	ug/l	93
6) Chloroethane	1.697	64	33633	46.955	ug/l	93
7) Trichlorofluoromethane	1.898	101	90940	49.788	ug/l	100
8) Diethyl Ether	2.142	74	32152	49.819	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	57034	49.561	ug/l	97
10) Methyl Iodide	2.465	142	67786	54.338	ug/l	100
11) Tert butyl alcohol	2.965	59	47374	273.823	ug/l	99
12) 1,1-Dichloroethene	2.331	96	51107	49.119	ug/l	99
13) Acrolein	2.246	56	51802	247.857	ug/l	98
14) Allyl chloride	2.678	41	105373	51.566	ug/l	94
15) Acrylonitrile	3.069	53	174229	266.347	ug/l	98
16) Acetone	2.386	43	157823	257.624	ug/l	99
17) Carbon Disulfide	2.526	76	110616	50.069	ug/l	98
18) Methyl Acetate	2.715	43	106595	57.396	ug/l	99
19) Methyl tert-butyl Ether	3.123	73	195706	53.754	ug/l	98
20) Methylene Chloride	2.800	84	60058	48.013	ug/l	96
21) trans-1,2-Dichloroethene	3.099	96	52668	47.832	ug/l	96
22) Diisopropyl ether	3.770	45	212853	52.834	ug/l #	80
23) Vinyl Acetate	3.727	43	827531	266.053	ug/l	99
24) 1,1-Dichloroethane	3.617	63	115021	51.227	ug/l	98
25) 2-Butanone	4.562	43	232201	267.525	ug/l	99
26) 2,2-Dichloropropane	4.483	77	89180	53.502	ug/l	99
27) cis-1,2-Dichloroethene	4.501	96	66779	49.265	ug/l	99
28) Bromochloromethane	4.904	49	52893	49.390	ug/l	99
29) Tetrahydrofuran	5.013	42	146302	266.904	ug/l	98
30) Chloroform	5.099	83	119994	51.004	ug/l	95
31) Cyclohexane	5.477	56	88988	49.093	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	103945	51.651	ug/l	97
36) 1,1-Dichloropropene	5.696	75	75696	47.703	ug/l	99
37) Ethyl Acetate	4.721	43	90139	58.203	ug/l	99
38) Carbon Tetrachloride	5.684	117	87750	49.372	ug/l	96
39) Methylcyclohexane	7.385	83	89168	47.608	ug/l	99
40) Benzene	6.044	78	221890	49.672	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX060625

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/06/2025
 Supervised By : Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	54128	56.282	ug/l	97
42) 1,2-Dichloroethane	6.092	62	94588	50.897	ug/l	99
43) Isopropyl Acetate	6.342	43	146579	54.290	ug/l	100
44) Trichloroethene	7.129	130	54213	47.764	ug/l	96
45) 1,2-Dichloropropane	7.434	63	59286	51.417	ug/l	99
46) Dibromomethane	7.586	93	44071	50.807	ug/l	99
47) Bromodichloromethane	7.824	83	94362	52.906	ug/l	97
48) Methyl methacrylate	7.696	41	76134	54.806	ug/l	97
49) 1,4-Dioxane	7.659	88	20118	1082.971	ug/l	94
51) 4-Methyl-2-Pentanone	8.574	43	466259	271.760	ug/l	100
52) Toluene	8.714	92	136448	49.719	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	85596	53.526	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	92273	51.896	ug/l	91
55) 1,1,2-Trichloroethane	9.153	97	57283	51.993	ug/l	98
56) Ethyl methacrylate	9.116	69	92299	54.440	ug/l	97
57) 1,3-Dichloropropane	9.305	76	98748	50.718	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.245	63	240616	260.553	ug/l	100
59) 2-Hexanone	9.427	43	337353	274.165	ug/l	99
60) Dibromochloromethane	9.519	129	68814	53.100	ug/l	97
61) 1,2-Dibromoethane	9.610	107	57046	49.689	ug/l	96
64) Tetrachloroethene	9.275	164	42310	47.739	ug/l	97
65) Chlorobenzene	10.080	112	154357	49.518	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.159	131	55536	52.723	ug/l	100
67) Ethyl Benzene	10.195	91	273659	50.288	ug/l	98
68) m/p-Xylenes	10.299	106	199258	100.941	ug/l	99
69) o-Xylene	10.640	106	97151	50.882	ug/l	99
70) Styrene	10.653	104	169628	51.899	ug/l	100
71) Bromoform	10.799	173	42728	53.200	ug/l #	99
73) Isopropylbenzene	10.957	105	266347	51.765	ug/l	100
74) N-amyl acetate	10.842	43	125656	55.456	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.213	83	86308	52.405	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	73842m	53.262	ug/l	
77) Bromobenzene	11.195	156	60607	50.748	ug/l	98
78) n-propylbenzene	11.305	91	316743	50.860	ug/l	100
79) 2-Chlorotoluene	11.360	91	191582	51.014	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	221291	51.612	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	26534	55.208	ug/l	97
82) 4-Chlorotoluene	11.451	91	224207	50.368	ug/l	99
83) tert-Butylbenzene	11.713	119	226613	51.919	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	223226	51.464	ug/l	99
85) sec-Butylbenzene	11.890	105	284027	50.644	ug/l	100
86) p-Isopropyltoluene	12.006	119	237583	50.815	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	114034	49.171	ug/l	99
88) 1,4-Dichlorobenzene	12.037	146	114838	47.788	ug/l	99
89) n-Butylbenzene	12.329	91	232333	50.601	ug/l	100
90) Hexachloroethane	12.536	117	42498	51.141	ug/l	99
91) 1,2-Dichlorobenzene	12.335	146	111587	49.847	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	20611	55.886	ug/l	98
93) 1,2,4-Trichlorobenzene	13.585	180	75169	49.224	ug/l	99
94) Hexachlorobutadiene	13.725	225	33512	47.222	ug/l	98
95) Naphthalene	13.774	128	257845	53.245	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	75157	49.082	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

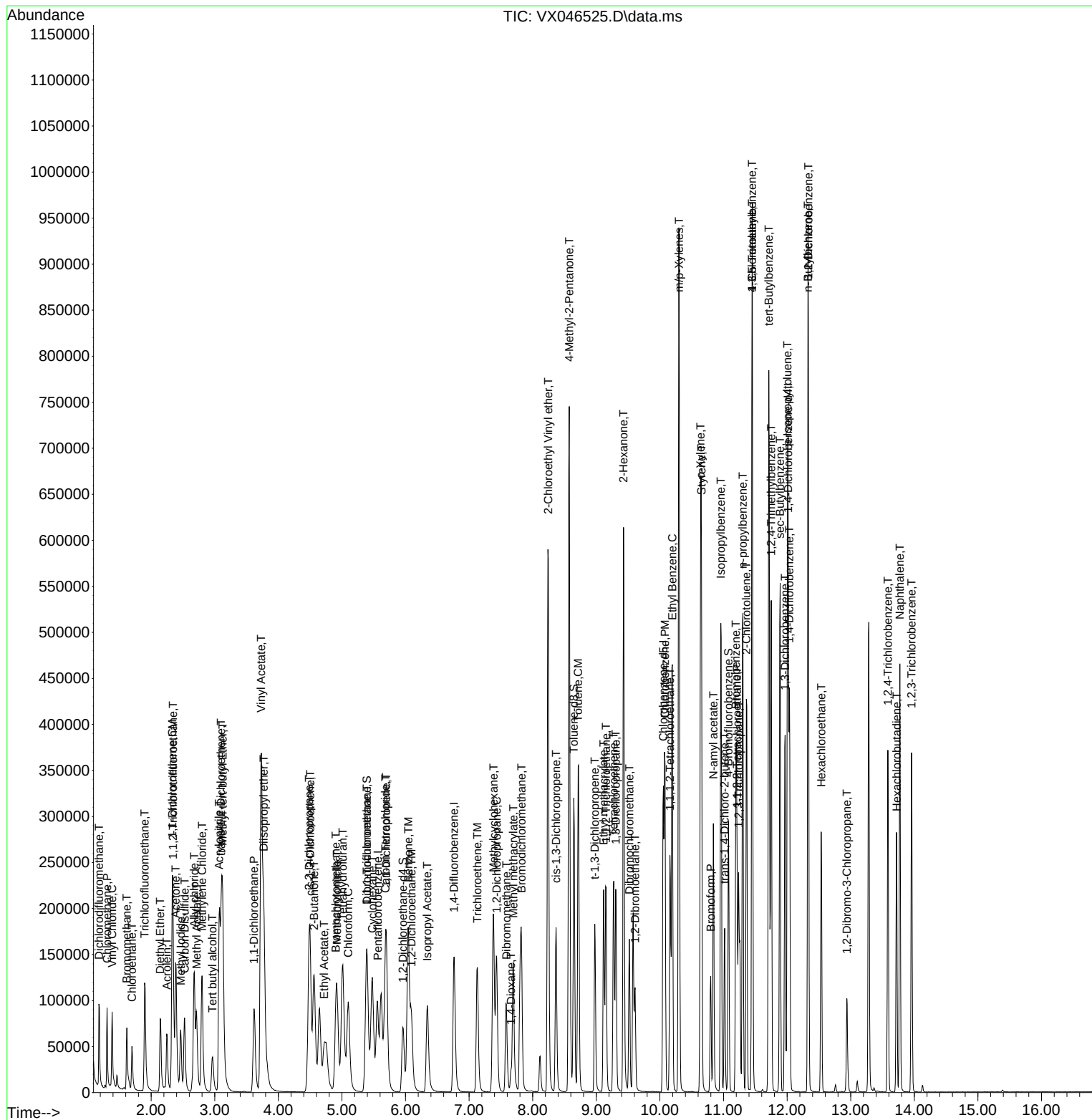
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

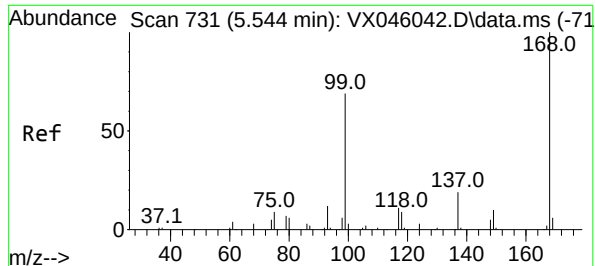
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Manual Integrations APPROVED

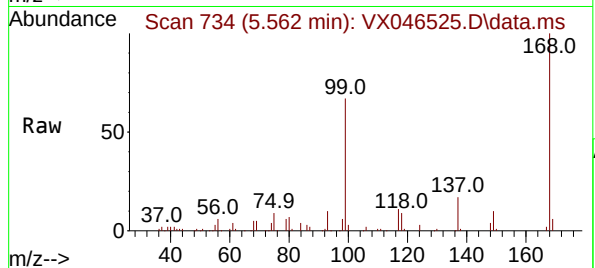
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

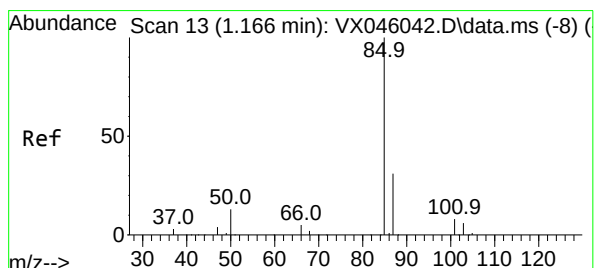
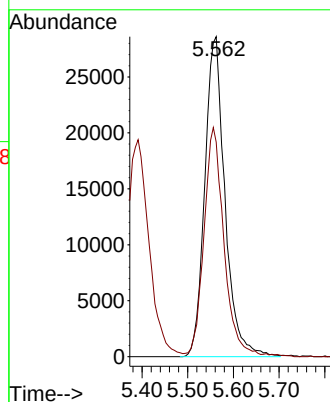
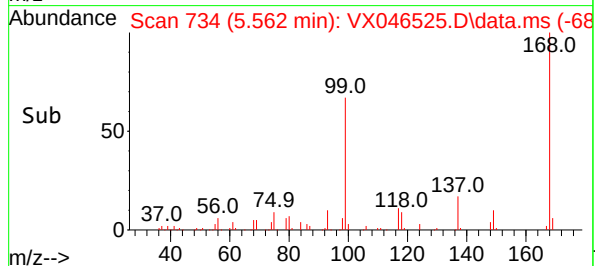
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:168 Resp: 87638
Ion Ratio Lower Upper
168 100
99 66.6 54.9 82.3

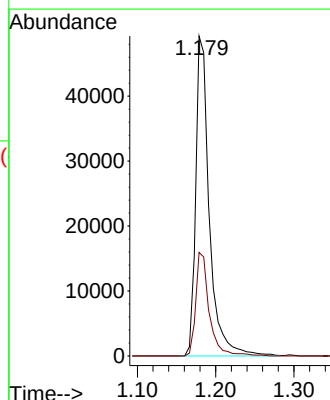
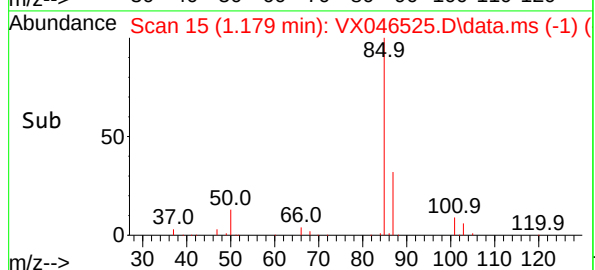
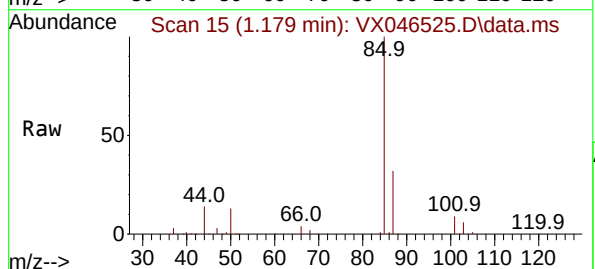
Manual Integrations
APPROVED

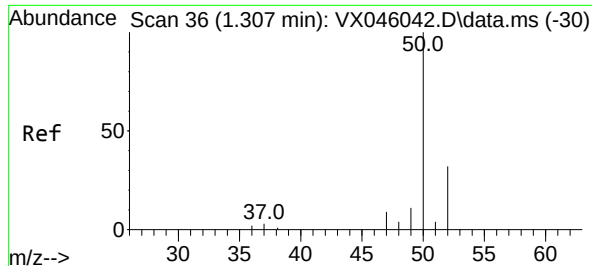
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#2
Dichlorodifluoromethane
Concen: 49.116 ug/l
RT: 1.179 min Scan# 15
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

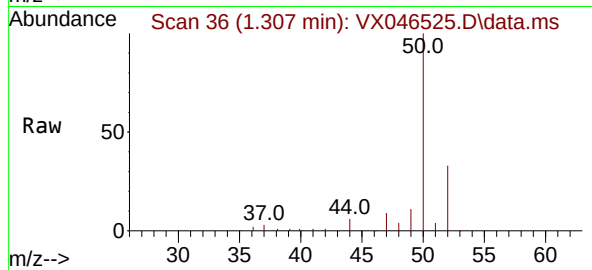
Tgt Ion: 85 Resp: 59758
Ion Ratio Lower Upper
85 100
87 32.3 15.7 47.1





#3
Chloromethane
Concen: 48.162 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

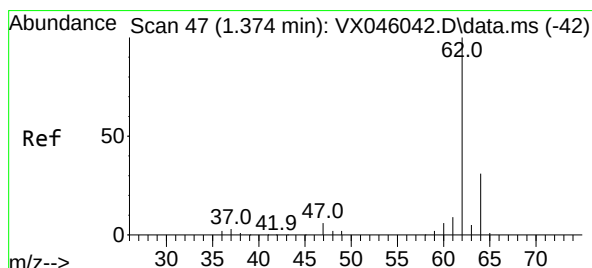
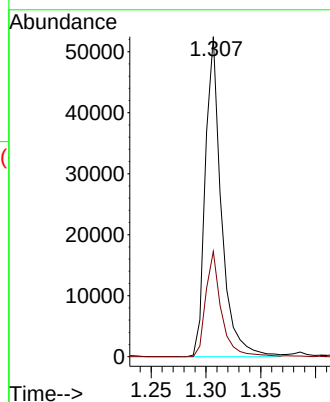
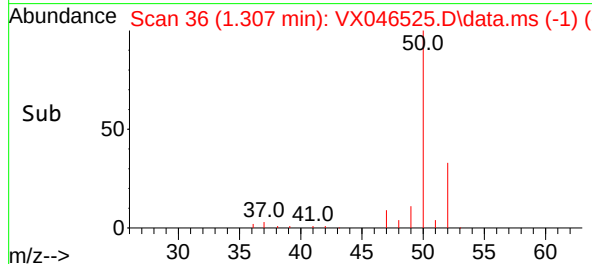
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 50 Resp: 5333
Ion Ratio Lower Upper
50 100
52 32.9 25.4 38.2

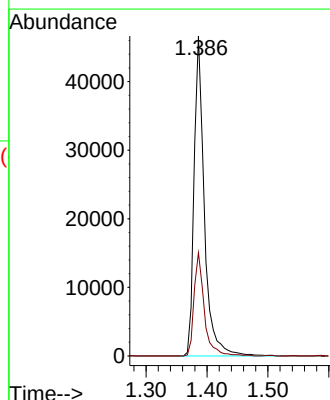
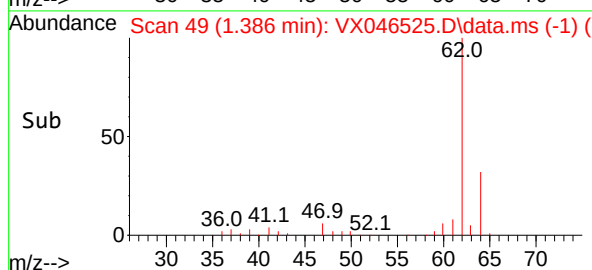
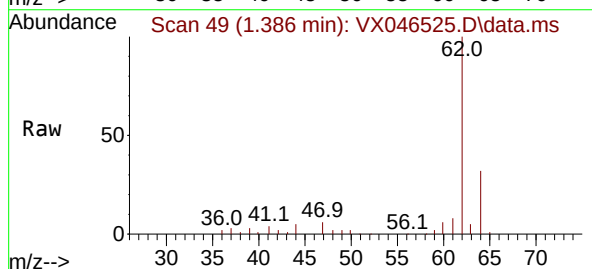
Manual Integrations
APPROVED

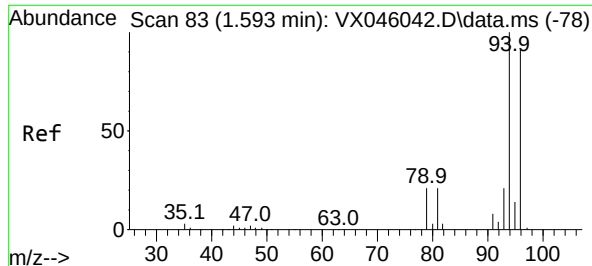
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#4
Vinyl Chloride
Concen: 49.502 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

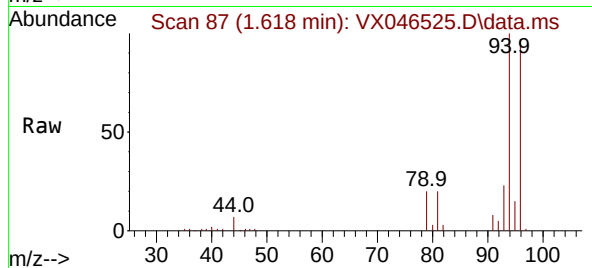
Tgt Ion: 62 Resp: 54649
Ion Ratio Lower Upper
62 100
64 32.3 25.2 37.8





#5
Bromomethane
Concen: 50.900 ug/l
RT: 1.618 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

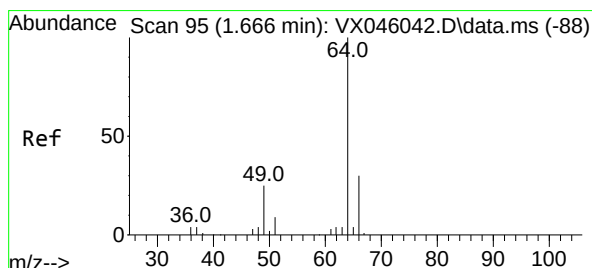
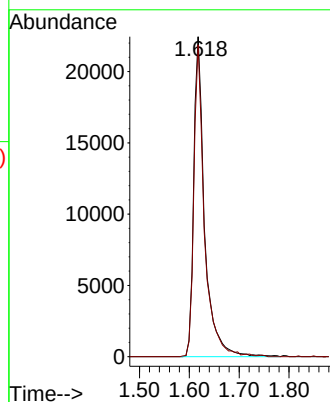
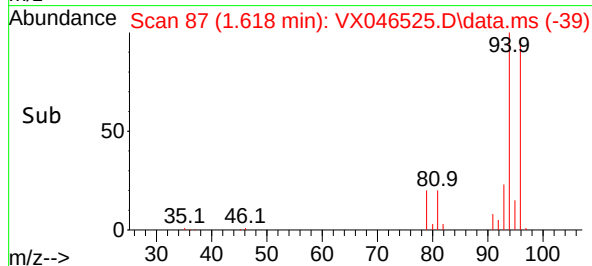
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 94 Resp: 3411
Ion Ratio Lower Upper
94 100
96 97.5 72.8 109.2

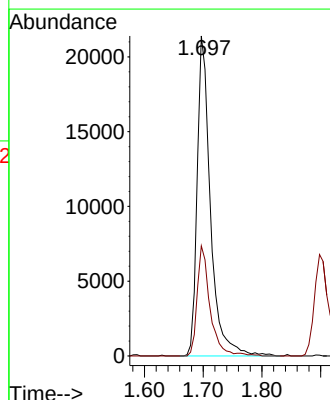
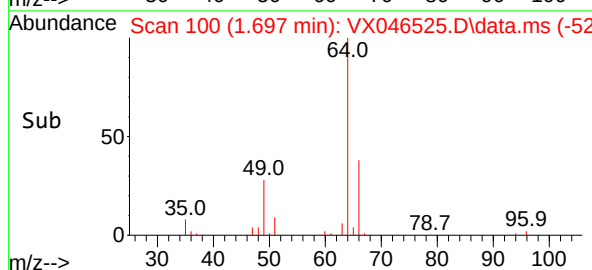
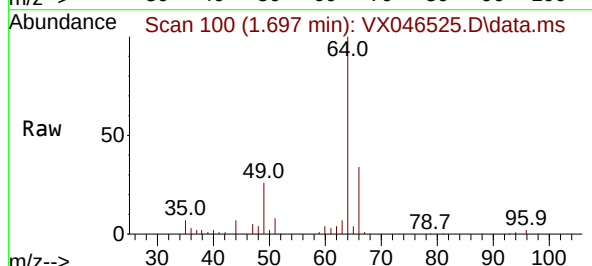
Manual Integrations
APPROVED

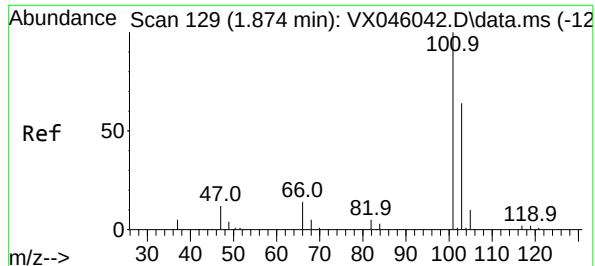
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#6
Chloroethane
Concen: 46.955 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

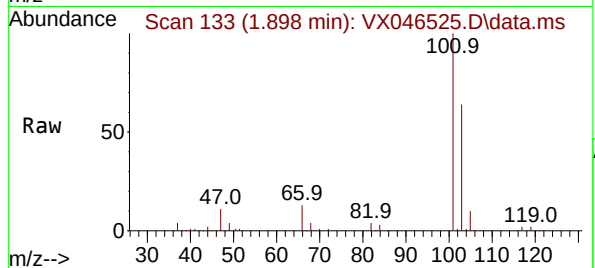
Tgt Ion: 64 Resp: 33633
Ion Ratio Lower Upper
64 100
66 34.4 24.3 36.5





#7
Trichlorofluoromethane
Concen: 49.788 ug/l
RT: 1.898 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

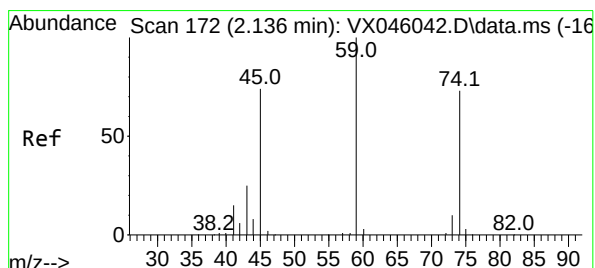
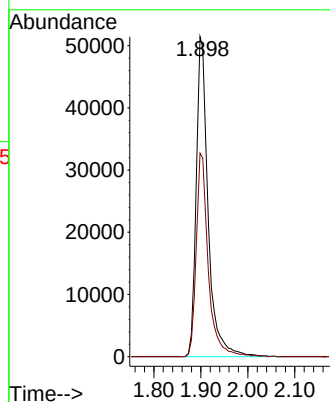
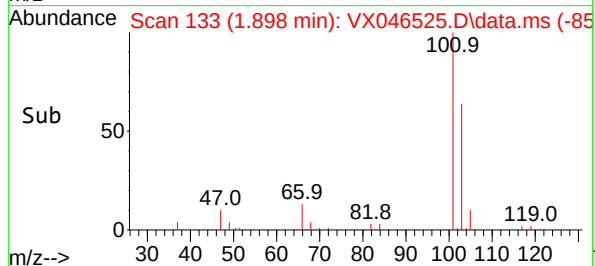
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



Tgt Ion:101 Resp: 90940
Ion Ratio Lower Upper
101 100
103 63.6 51.0 76.4

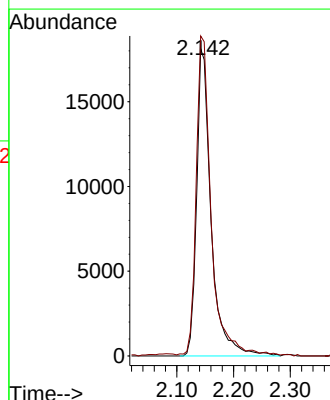
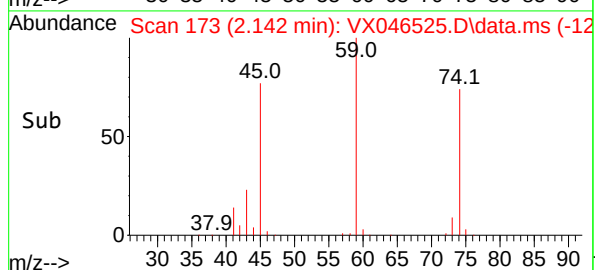
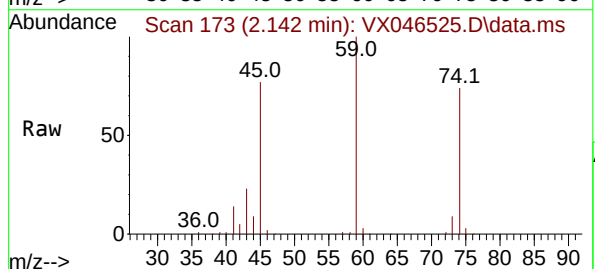
Manual Integrations
APPROVED

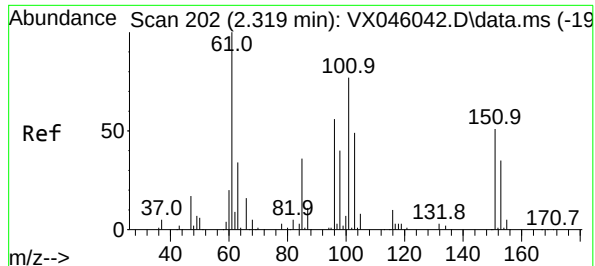
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#8
Diethyl Ether
Concen: 49.819 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

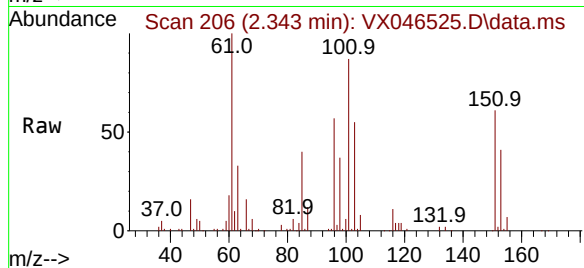
Tgt Ion: 74 Resp: 32152
Ion Ratio Lower Upper
74 100
45 106.1 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.561 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

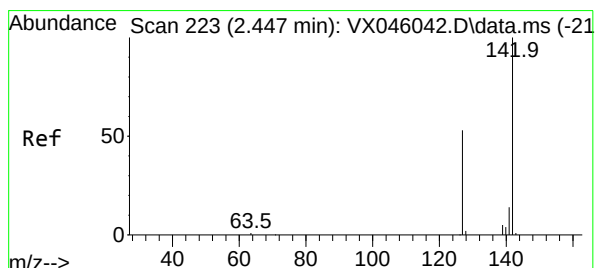
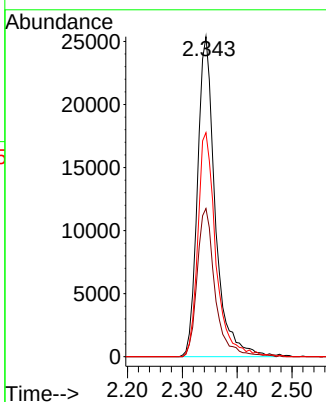
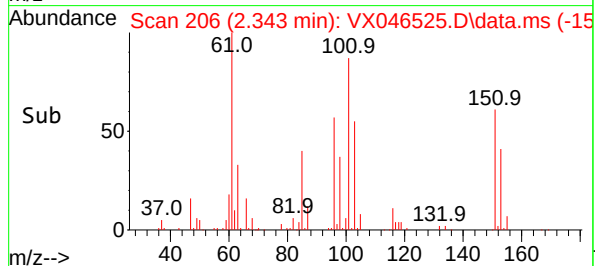
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



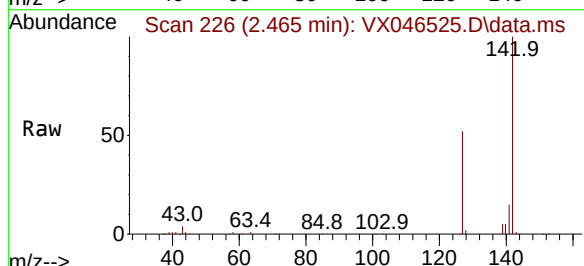
Tgt Ion:101 Resp: 57034
Ion Ratio Lower Upper
101 100
85 46.7 38.6 58.0
151 71.2 55.2 82.8

Manual Integrations
APPROVED

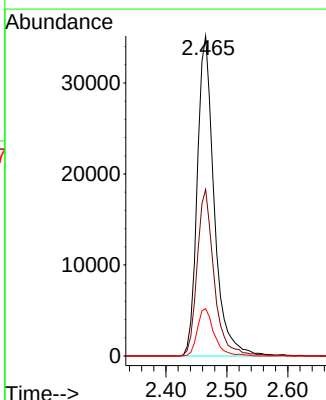
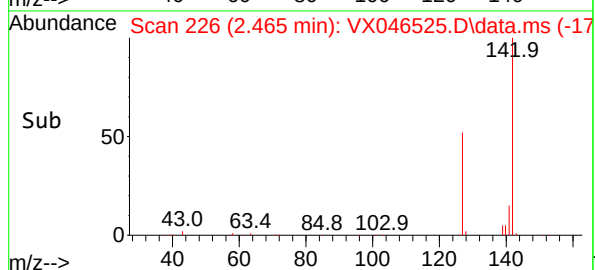
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

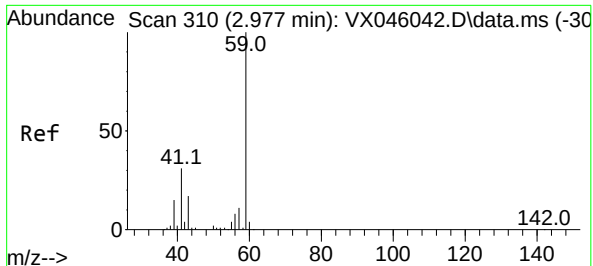


#10
Methyl Iodide
Concen: 54.338 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion:142 Resp: 67786
Ion Ratio Lower Upper
142 100
127 52.1 41.7 62.5
141 14.6 11.5 17.3





#11

Tert butyl alcohol

Concen: 273.823 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 59 Resp: 47374

Ion Ratio Lower Upper

59 100

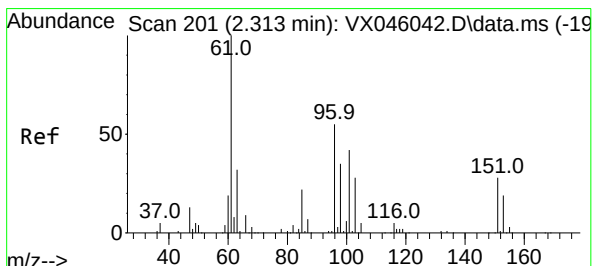
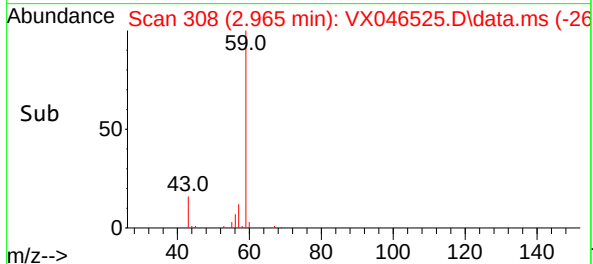
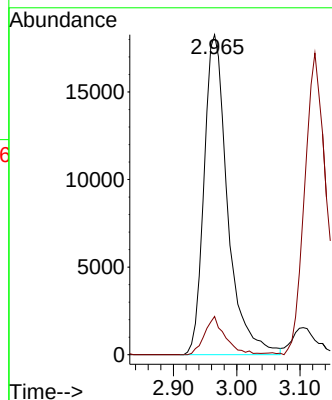
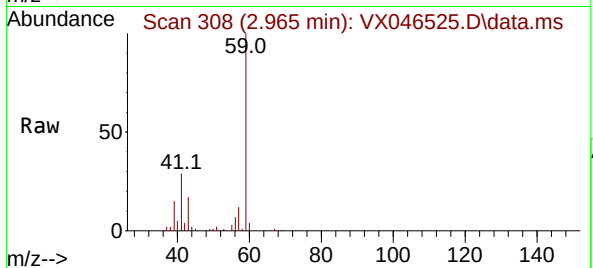
57 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#12

1,1-Dichloroethene

Concen: 49.119 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

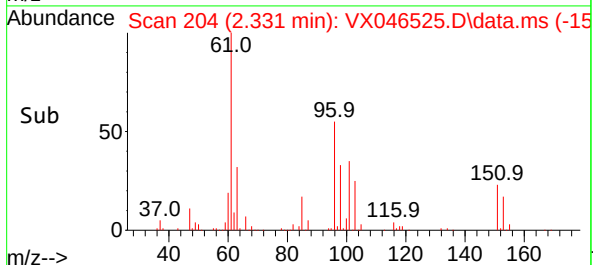
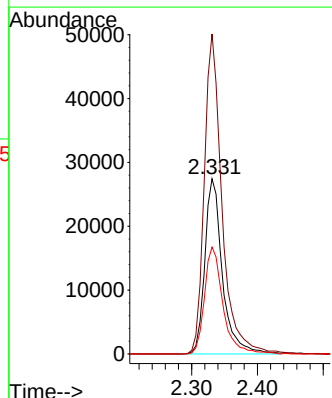
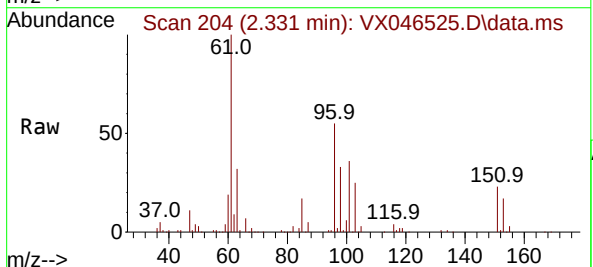
Tgt Ion: 96 Resp: 51107

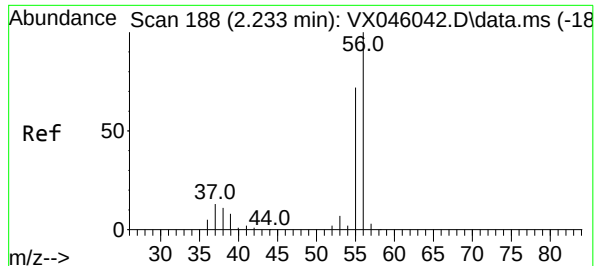
Ion Ratio Lower Upper

96 100

61 182.7 146.2 219.2

98 61.0 51.0 76.6





#13

Acrolein

Concen: 247.857 ug/l

RT: 2.246 min Scan# 188

Delta R.T. -0.005 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 56 Resp: 51802

Ion Ratio Lower Upper

56 100

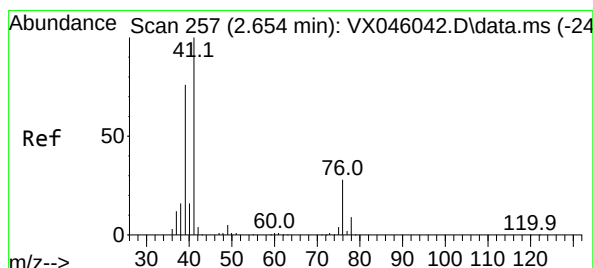
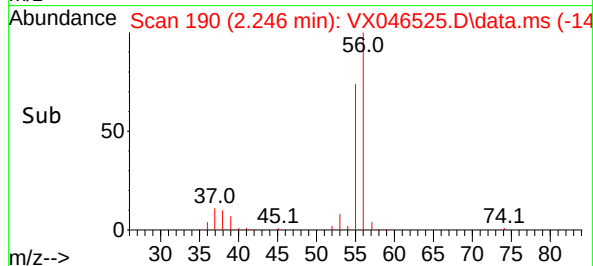
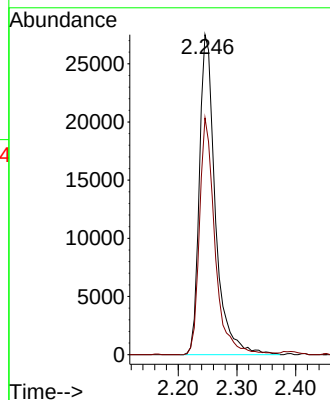
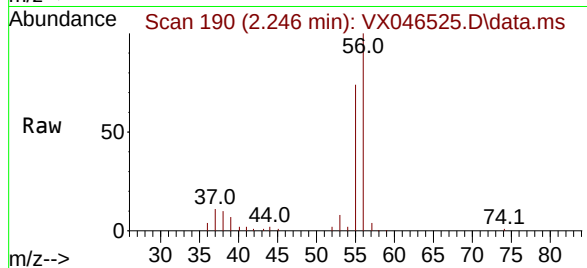
55 72.1 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#14

Allyl chloride

Concen: 51.566 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

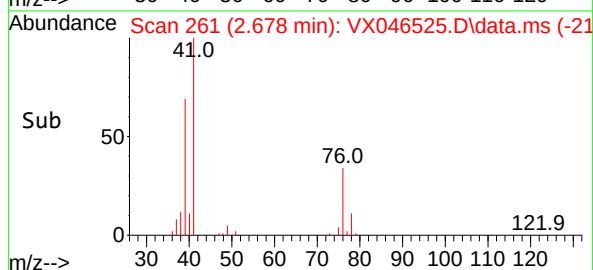
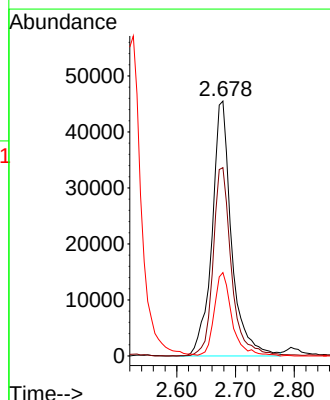
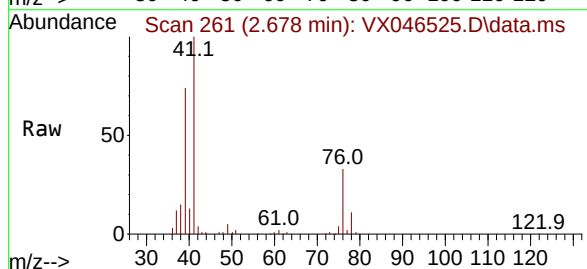
Tgt Ion: 41 Resp: 105373

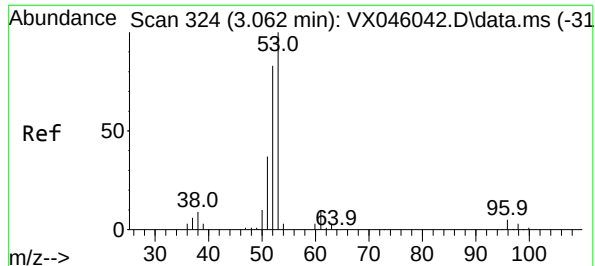
Ion Ratio Lower Upper

41 100

39 69.8 60.6 90.8

76 29.2 24.9 37.3





#15

Acrylonitrile

Concen: 266.347 ug/l

RT: 3.069 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 53 Resp: 174229

Ion Ratio Lower Upper

53 100

52 84.5 65.3 97.9

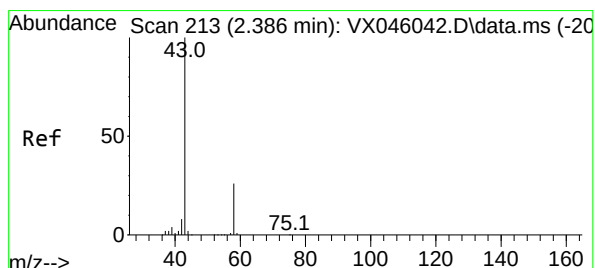
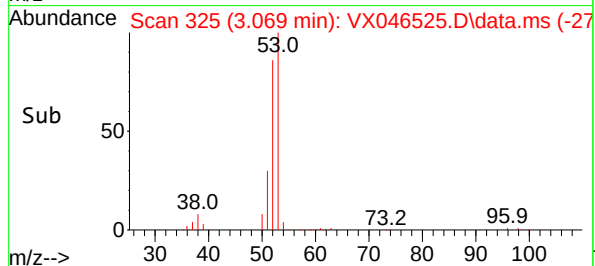
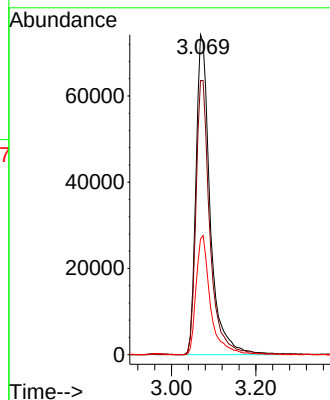
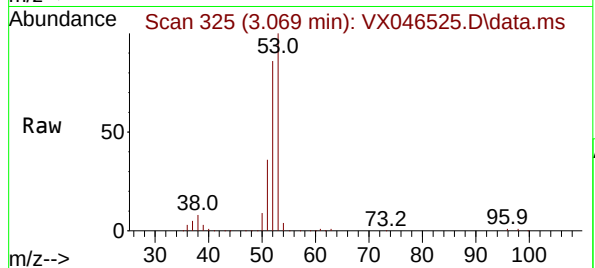
51 37.7 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#16

Acetone

Concen: 257.624 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX046525.D

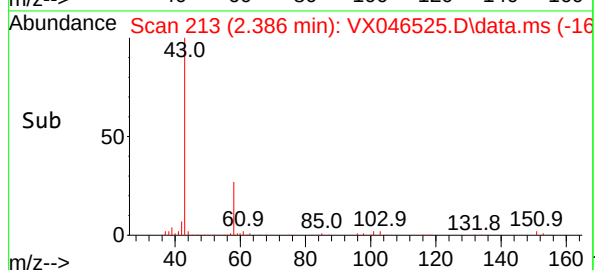
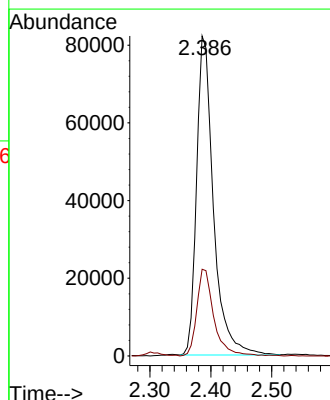
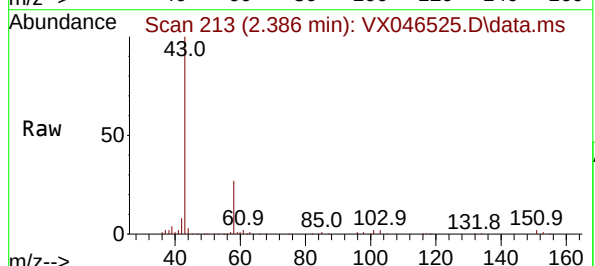
Acq: 06 Jun 2025 14:11

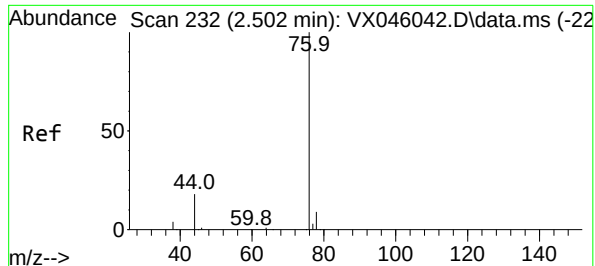
Tgt Ion: 43 Resp: 157823

Ion Ratio Lower Upper

43 100

58 27.2 21.2 31.8





#17

Carbon Disulfide

Concen: 50.069 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 76 Resp: 110610

Ion Ratio Lower Upper

76 100

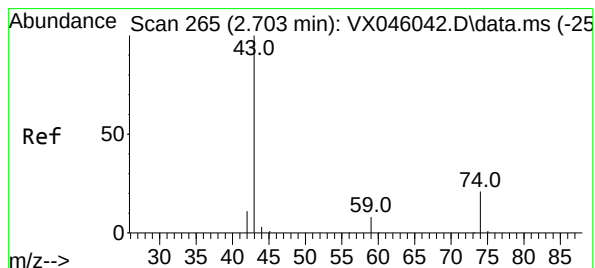
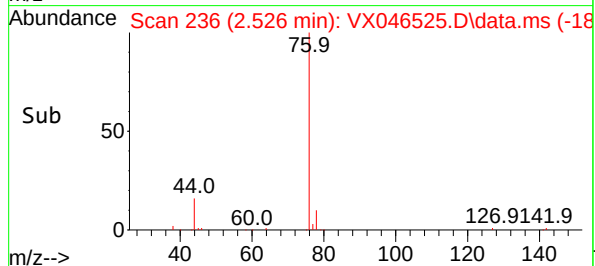
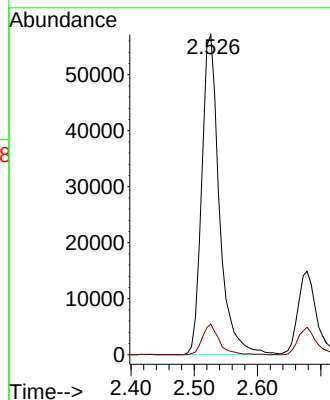
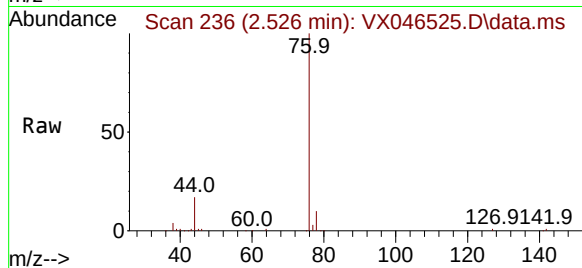
78 9.6 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#18

Methyl Acetate

Concen: 57.396 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.006 min

Lab File: VX046525.D

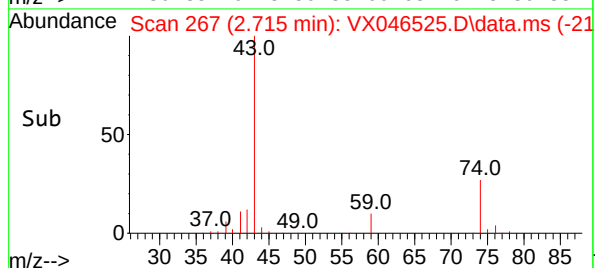
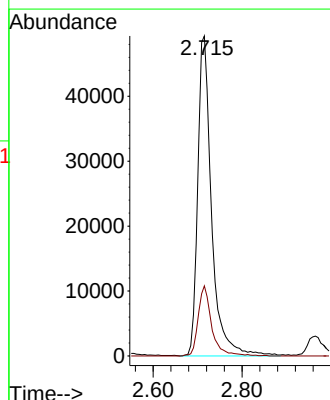
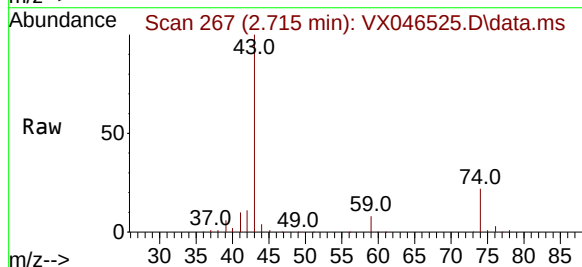
Acq: 06 Jun 2025 14:11

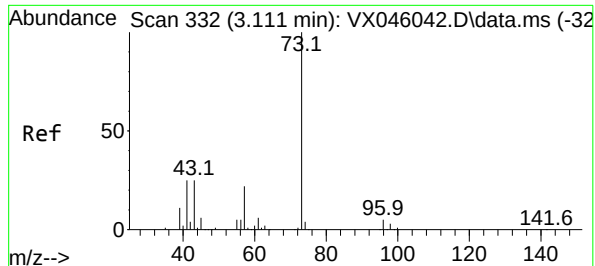
Tgt Ion: 43 Resp: 106595

Ion Ratio Lower Upper

43 100

74 21.4 16.7 25.1





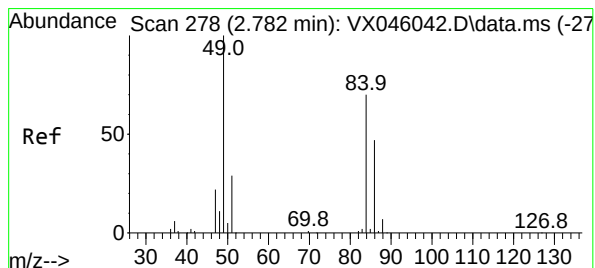
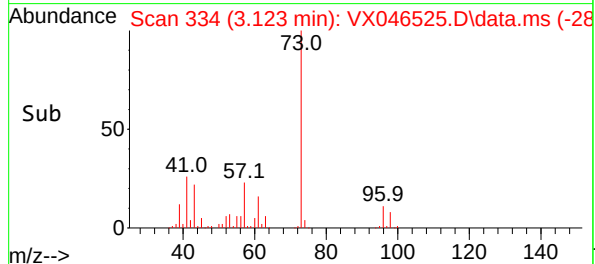
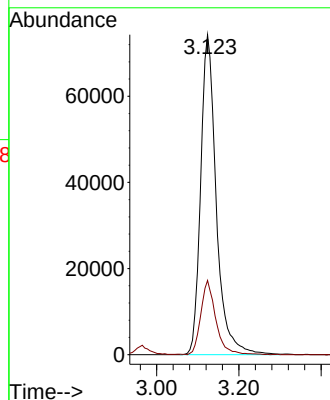
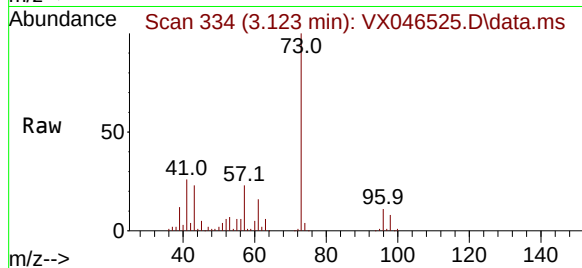
#19
Methyl tert-butyl Ether
Concen: 53.754 ug/l
RT: 3.123 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion: 73 Resp: 195700
Ion Ratio Lower Upper
73 100
57 23.2 17.7 26.5

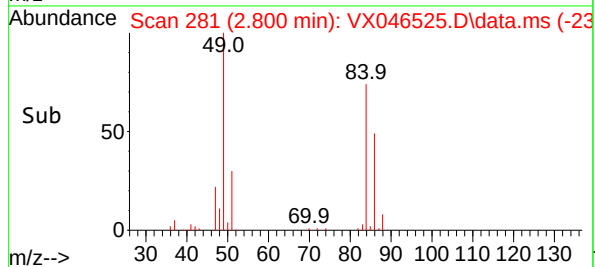
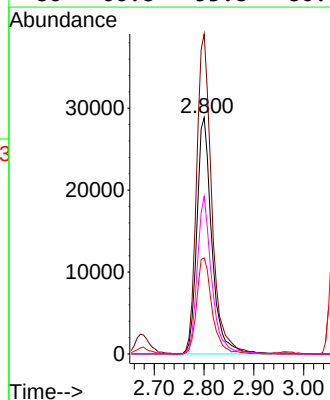
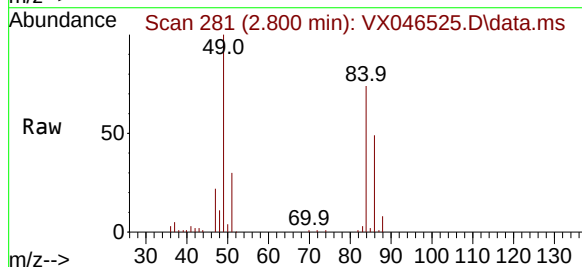
Manual Integrations
APPROVED

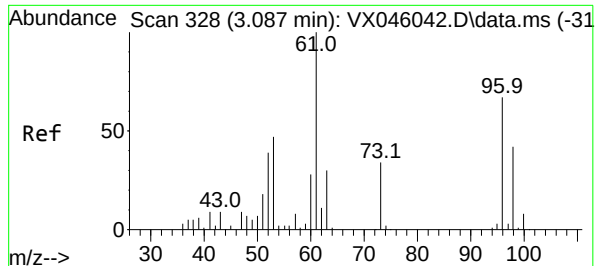
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#20
Methylene Chloride
Concen: 48.013 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

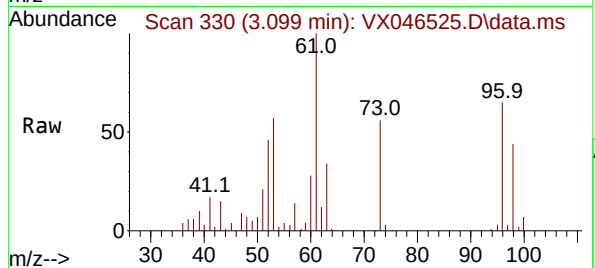
Tgt Ion: 84 Resp: 60058
Ion Ratio Lower Upper
84 100
49 135.2 113.9 170.9
51 40.6 33.5 50.3
86 66.8 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 47.832 ug/l
RT: 3.099 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

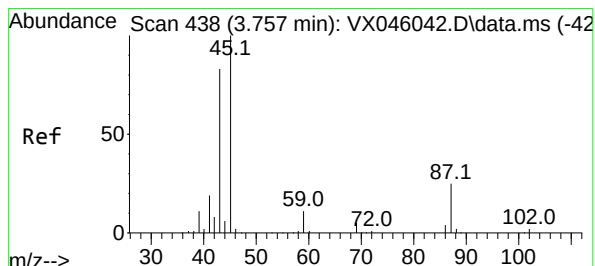
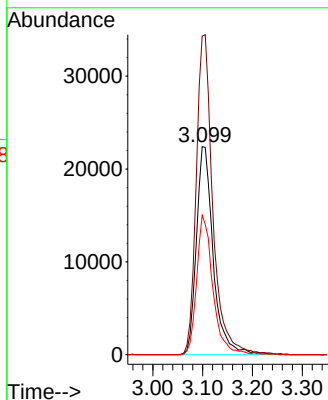
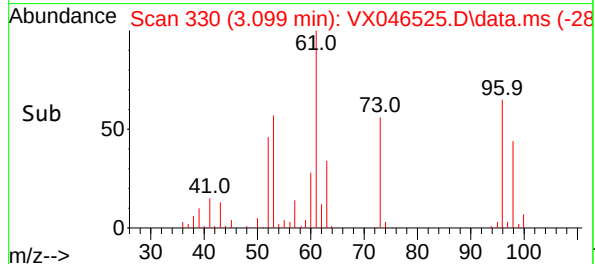
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 96 Resp: 5266
Ion Ratio Lower Upper
96 100
61 153.1 119.5 179.3
98 67.1 50.0 75.0

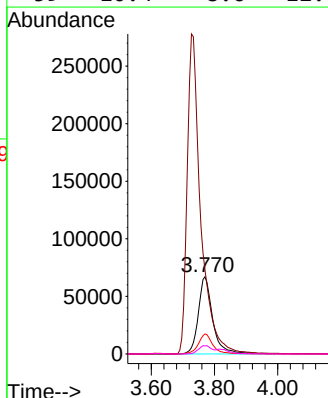
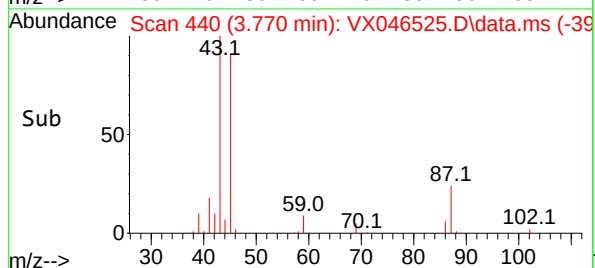
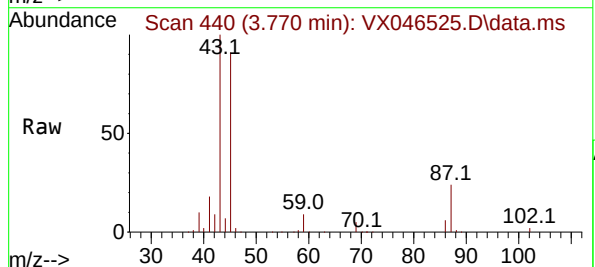
Manual Integrations
APPROVED

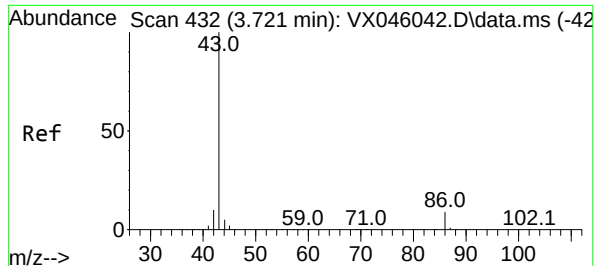
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#22
Diisopropyl ether
Concen: 52.834 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

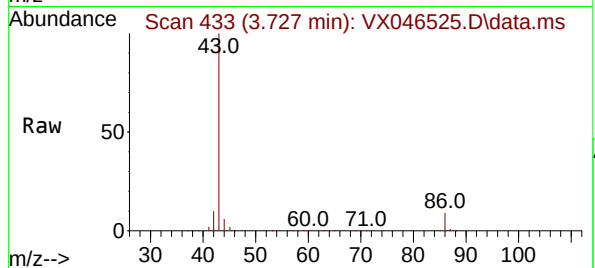
Tgt Ion: 45 Resp: 212853
Ion Ratio Lower Upper
45 100
43 108.8 66.6 100.0#
87 26.0 19.8 29.6
59 10.4 8.6 12.8





#23
Vinyl Acetate
Concen: 266.053 ug/l
RT: 3.727 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

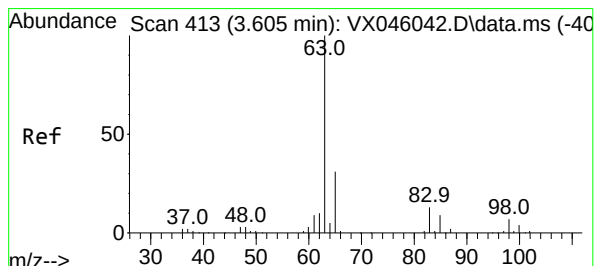
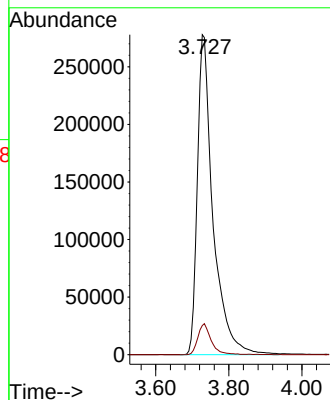
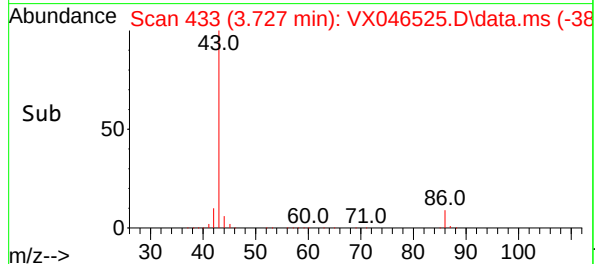
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



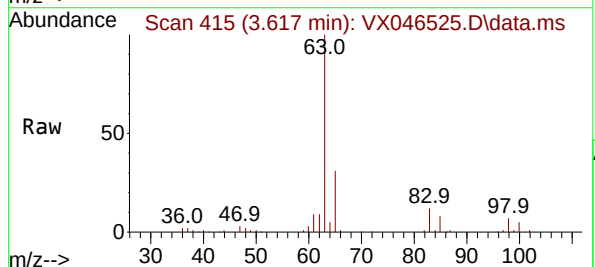
Tgt Ion: 43 Resp: 82753
Ion Ratio Lower Upper
43 100
86 9.1 7.5 11.3

Manual Integrations
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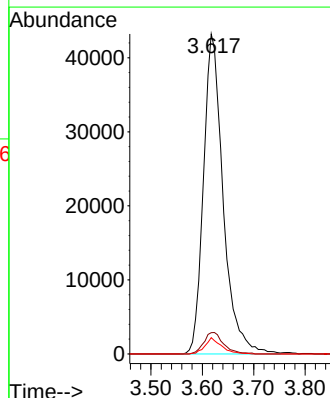
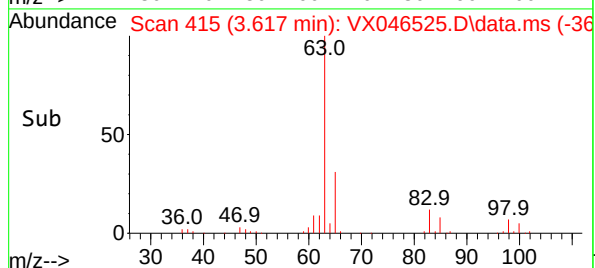
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

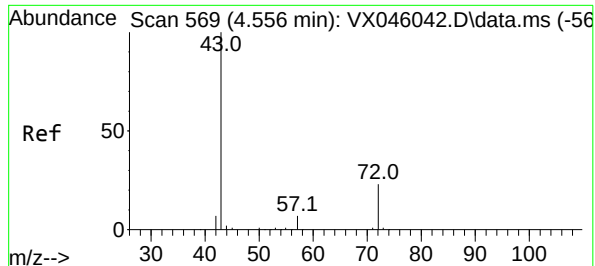


#24
1,1-Dichloroethane
Concen: 51.227 ug/l
RT: 3.617 min Scan# 415
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



Tgt Ion: 63 Resp: 115021
Ion Ratio Lower Upper
63 100
98 6.7 3.6 10.8
100 5.1 2.1 6.3





#25

2-Butanone

Concen: 267.525 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 43 Resp: 23220

Ion Ratio Lower Upper

43 100

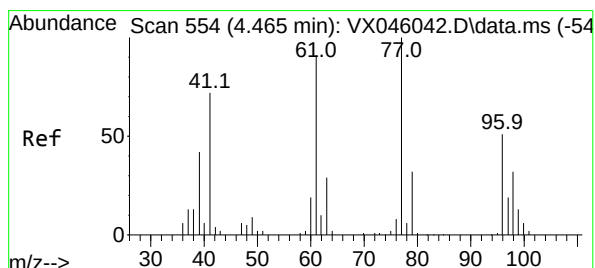
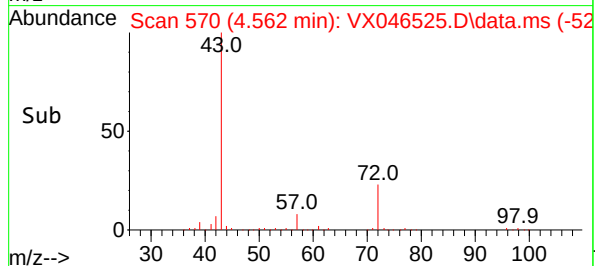
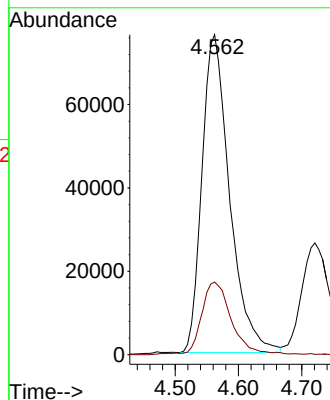
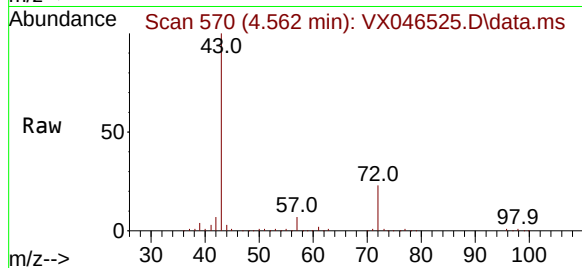
72 22.4 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#26

2,2-Dichloropropane

Concen: 53.502 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046525.D

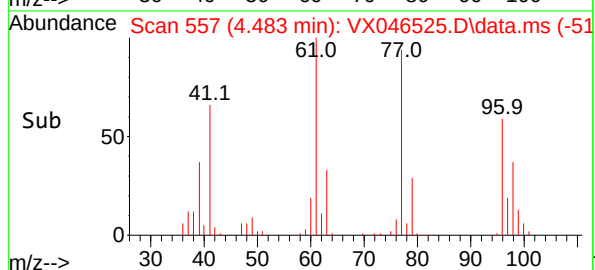
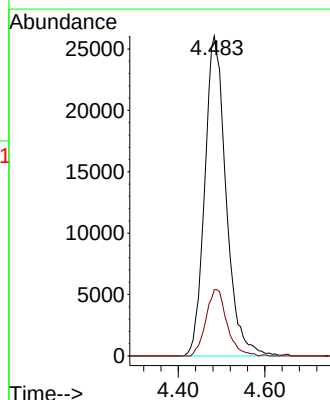
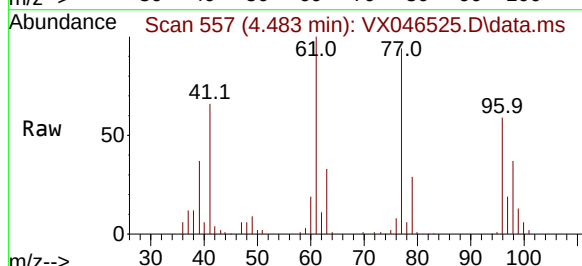
Acq: 06 Jun 2025 14:11

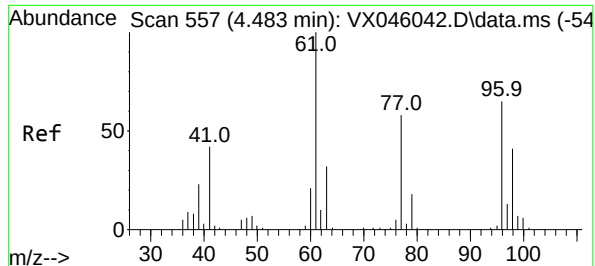
Tgt Ion: 77 Resp: 89180

Ion Ratio Lower Upper

77 100

97 20.5 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 49.265 ug/l

RT: 4.501 min Scan# 50

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 96 Resp: 66779

Ion Ratio Lower Upper

96 100

61 159.6 0.0 322.8

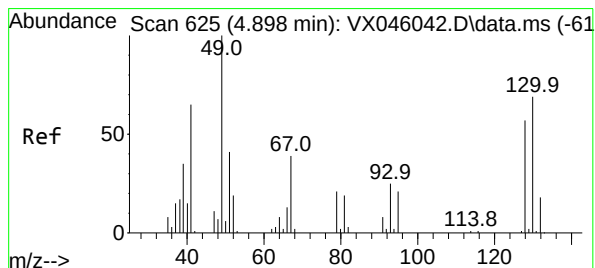
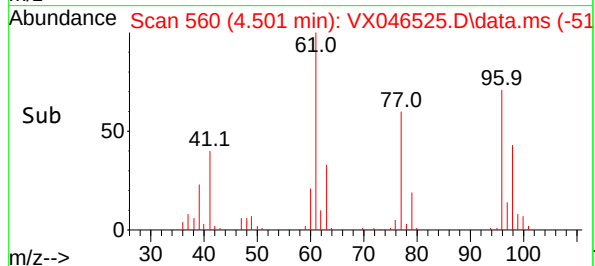
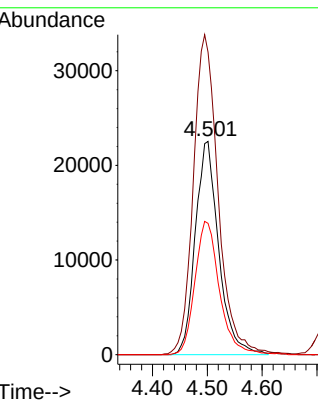
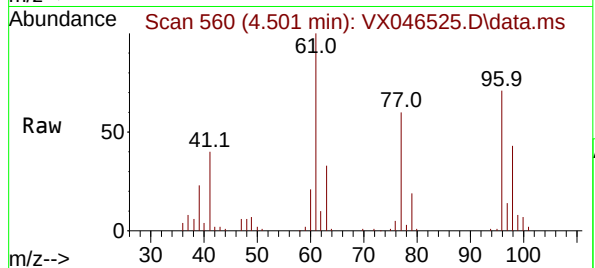
98 65.7 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#28

Bromochloromethane

Concen: 49.390 ug/l

RT: 4.904 min Scan# 626

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

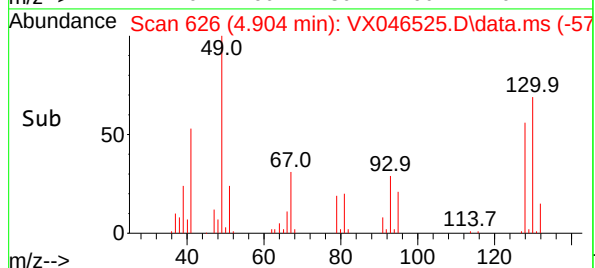
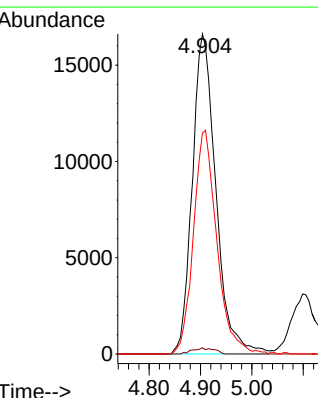
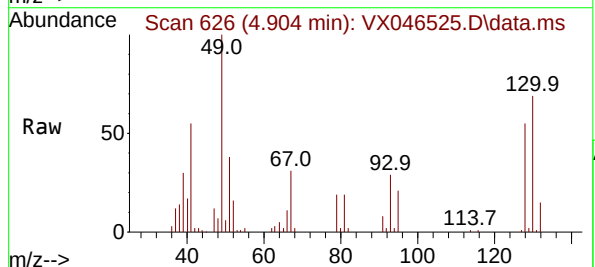
Tgt Ion: 49 Resp: 52893

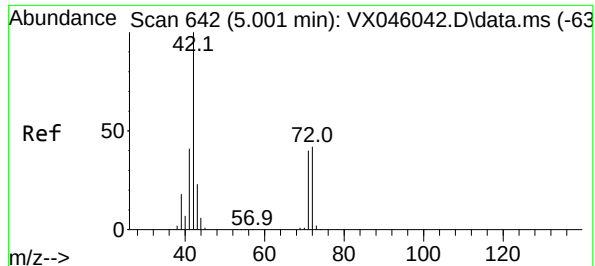
Ion Ratio Lower Upper

49 100

129 1.7 0.0 4.0

130 69.4 56.2 84.2





#29

Tetrahydrofuran

Concen: 266.904 ug/l

RT: 5.013 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 42 Resp: 146302

Ion Ratio Lower Upper

42 100

72 41.0 33.7 50.5

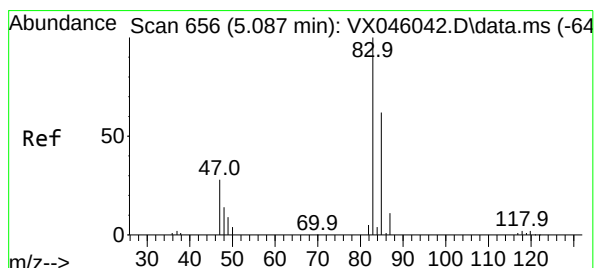
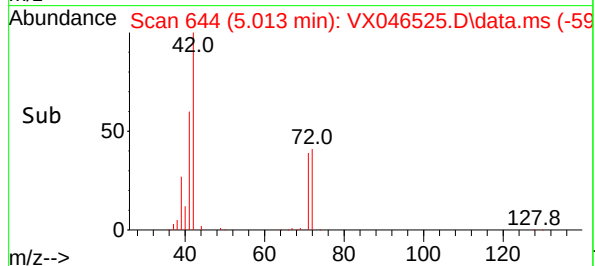
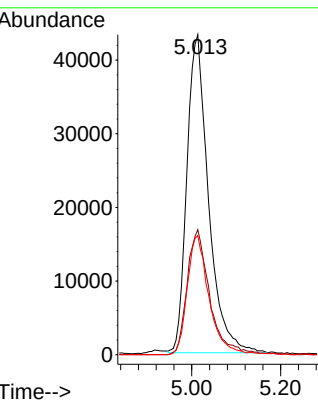
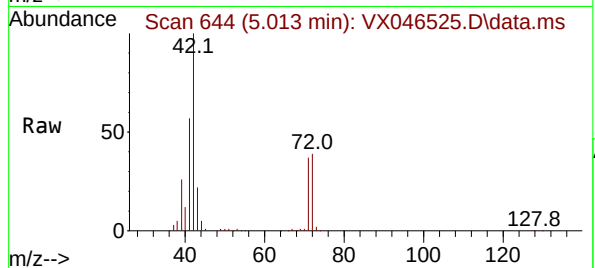
71 37.4 31.4 47.2

Manual Integrations

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Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#30

Chloroform

Concen: 51.004 ug/l

RT: 5.099 min Scan# 658

Delta R.T. -0.012 min

Lab File: VX046525.D

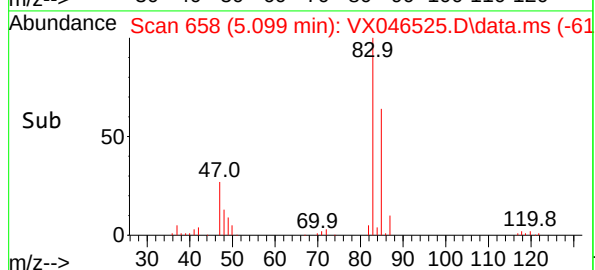
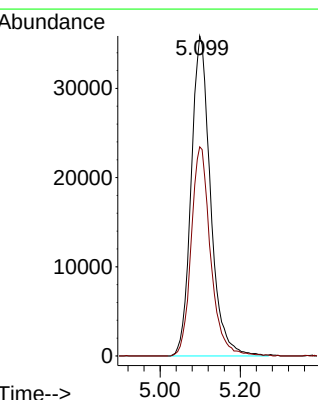
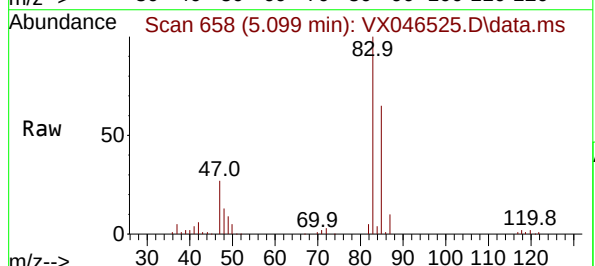
Acq: 06 Jun 2025 14:11

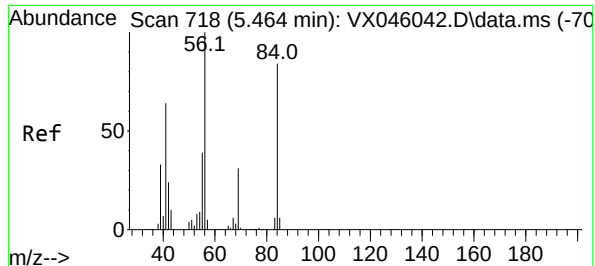
Tgt Ion: 83 Resp: 119994

Ion Ratio Lower Upper

83 100

85 65.3 49.3 73.9





#31

Cyclohexane

Concen: 49.093 ug/l

RT: 5.477 min Scan# 718

Delta R.T. -0.012 min

Lab File: VX046525.D

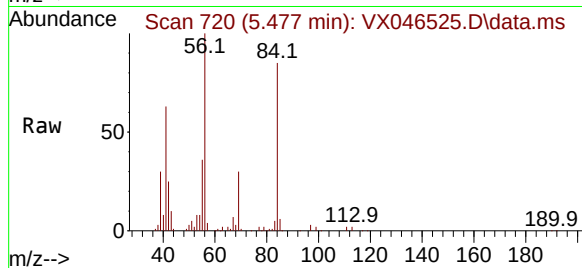
Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625



Tgt Ion: 56 Resp: 8898

Ion Ratio Lower Upper

56 100

69 30.5 24.4 36.6

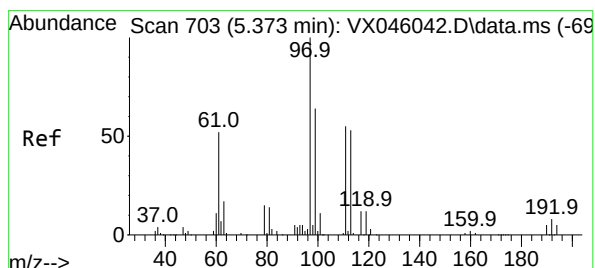
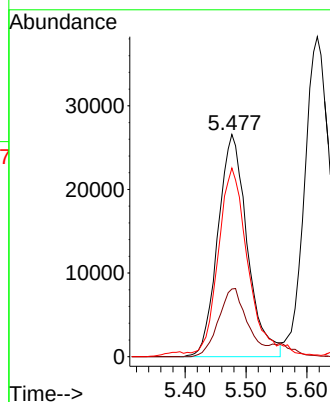
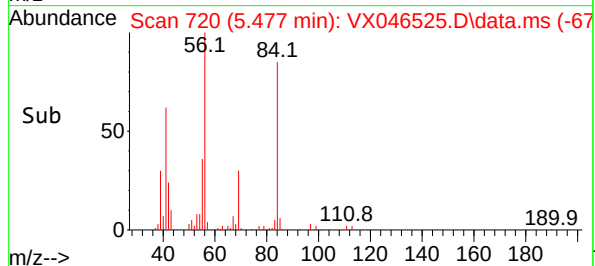
84 82.6 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#32

1,1,1-Trichloroethane

Concen: 51.651 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

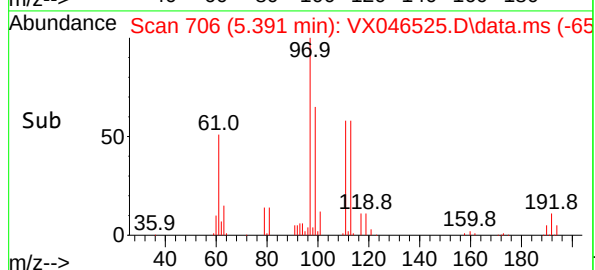
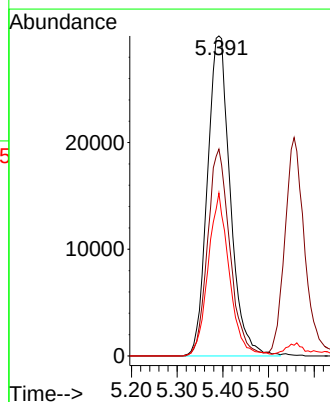
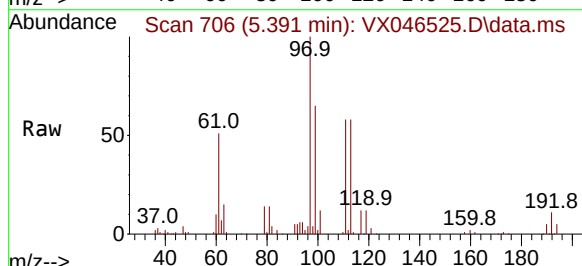
Tgt Ion: 97 Resp: 103945

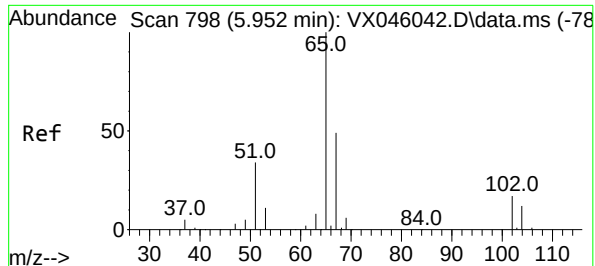
Ion Ratio Lower Upper

97 100

99 63.1 51.8 77.6

61 47.5 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 50.250 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 65 Resp: 78349

Ion Ratio Lower Upper

65 100

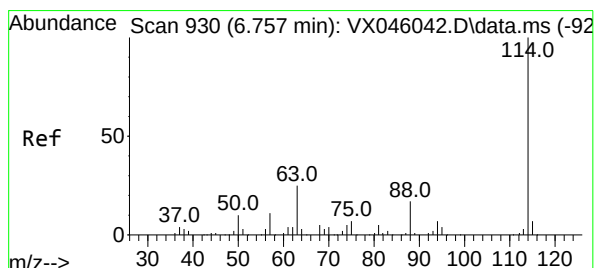
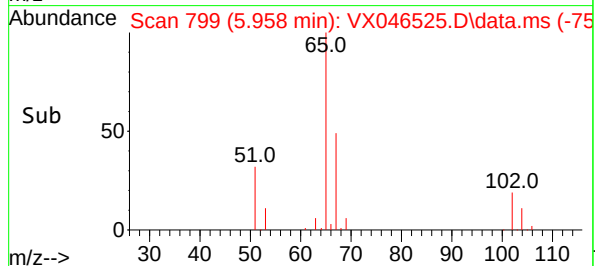
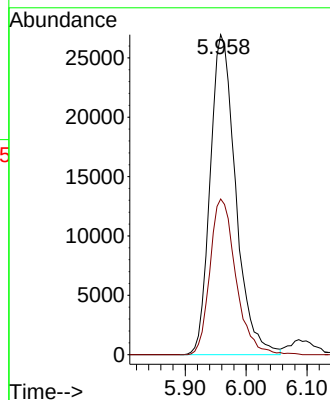
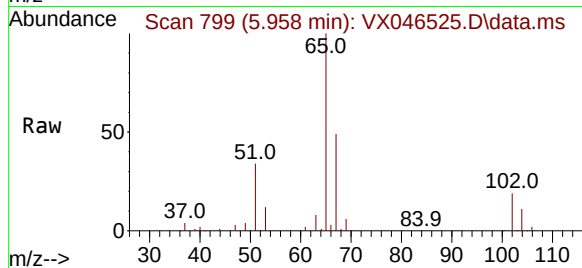
67 49.5 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

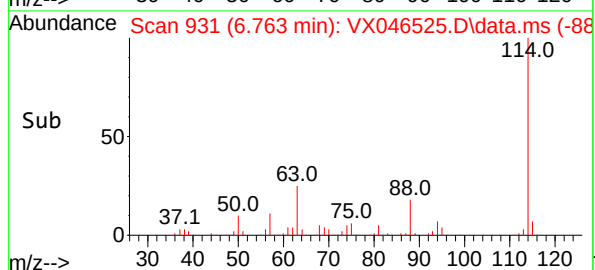
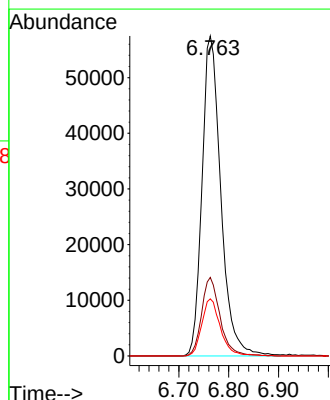
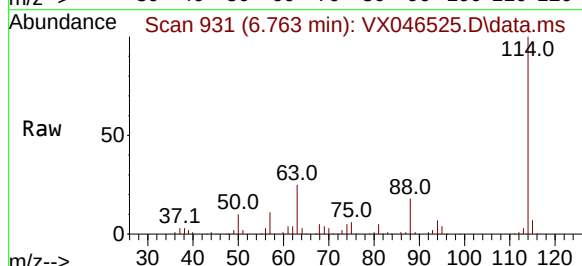
Tgt Ion:114 Resp: 151058

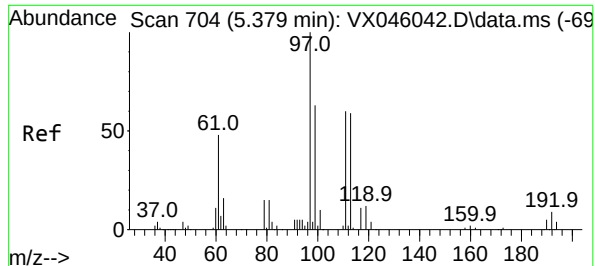
Ion Ratio Lower Upper

114 100

63 24.6 0.0 49.2

88 17.8 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.039 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:113 Resp: 56698

Ion Ratio Lower Upper

113 100

111 103.5 83.1 124.7

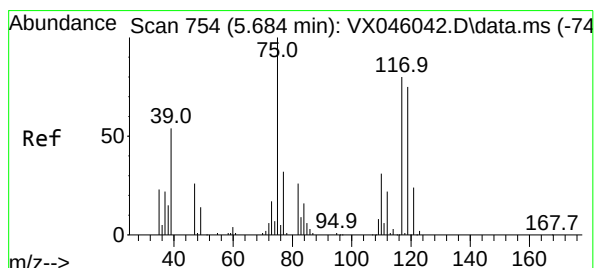
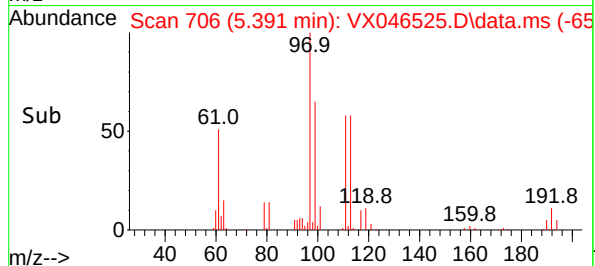
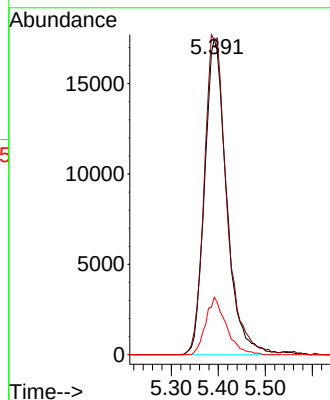
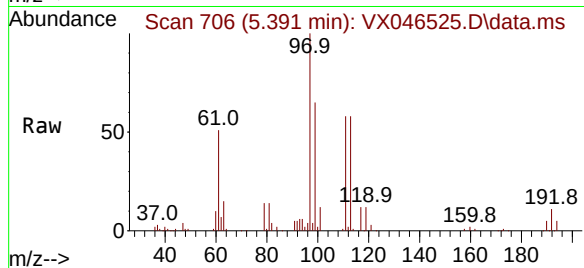
192 17.1 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#36

1,1-Dichloropropene

Concen: 47.703 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.018 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

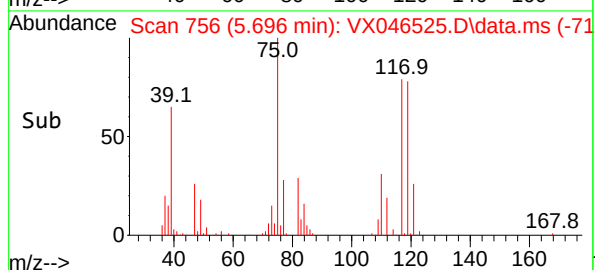
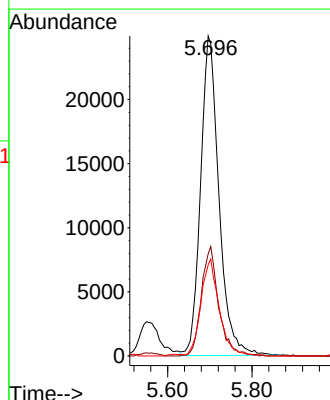
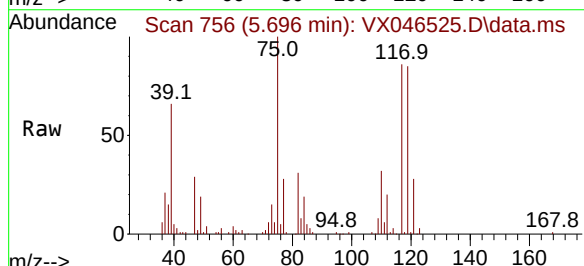
Tgt Ion: 75 Resp: 75696

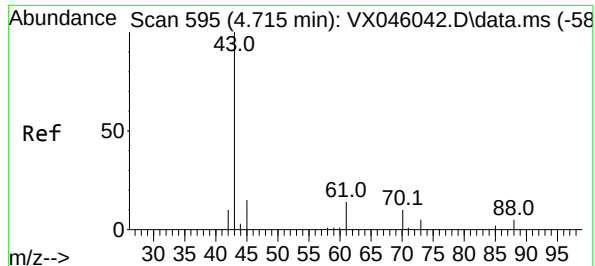
Ion Ratio Lower Upper

75 100

110 32.3 16.3 48.9

77 29.6 24.3 36.5





#37

Ethyl Acetate

Concen: 58.203 ug/l

RT: 4.721 min Scan# 595

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

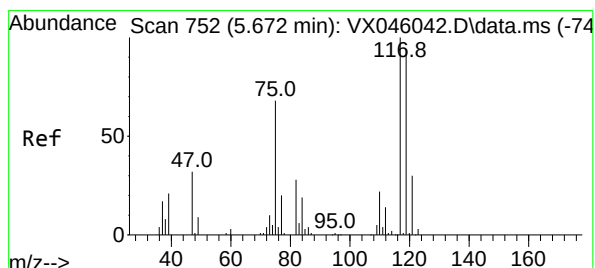
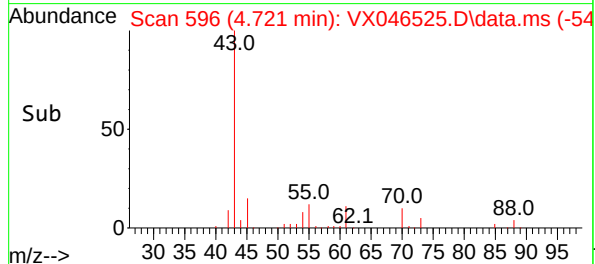
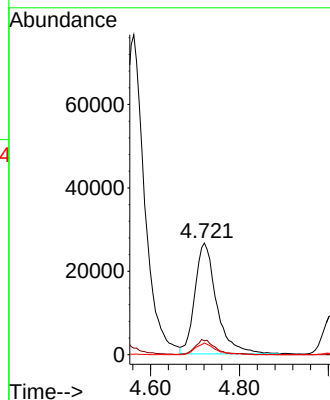
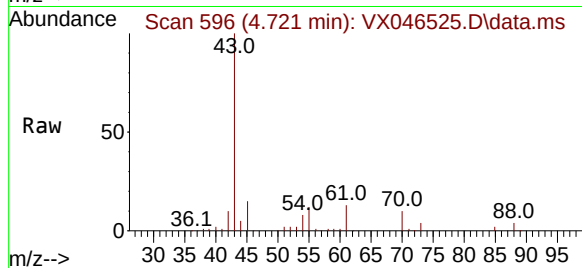
Tgt Ion:	43	Resp:	90139
Ion	Ratio	Lower	Upper
43	100		
61	12.7	10.3	15.5
70	9.6	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#38

Carbon Tetrachloride

Concen: 49.372 ug/l

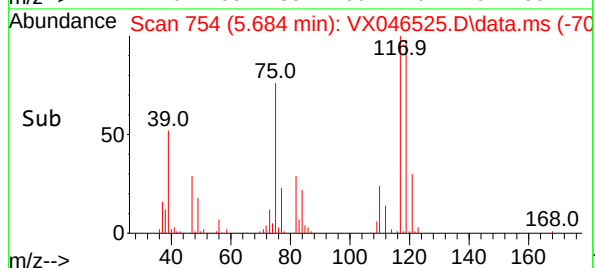
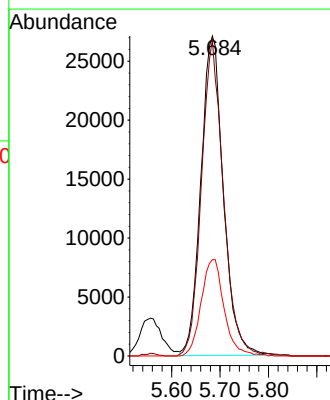
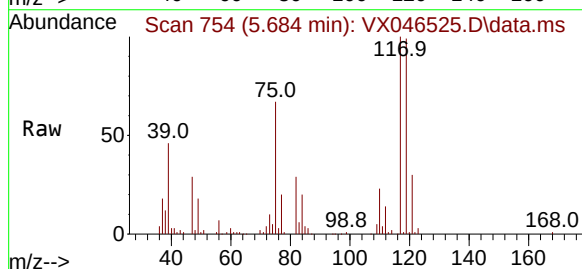
RT: 5.684 min Scan# 754

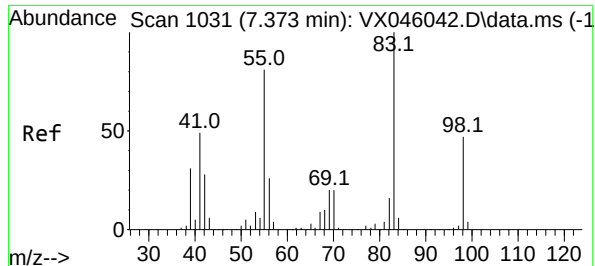
Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion:	117	Resp:	87750
Ion	Ratio	Lower	Upper
117	100		
119	98.9	75.2	112.8
121	30.2	24.2	36.4





#39

Methylcyclohexane

Concen: 47.608 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 83 Resp: 8916

Ion Ratio Lower Upper

83 100

55 81.6 64.7 97.1

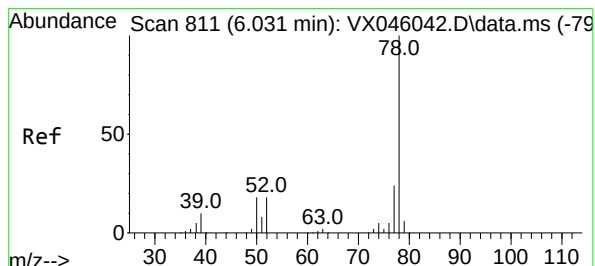
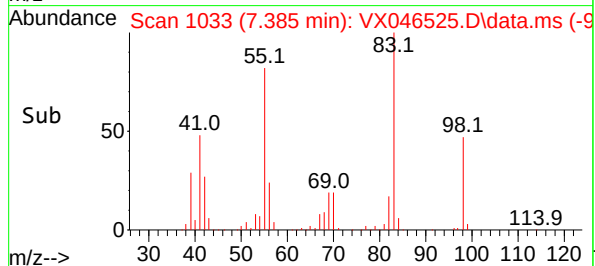
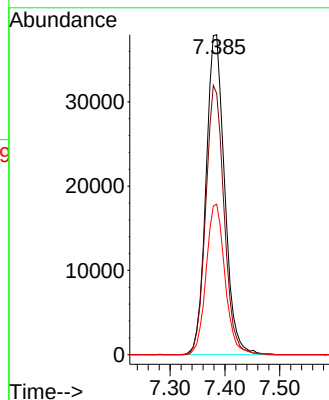
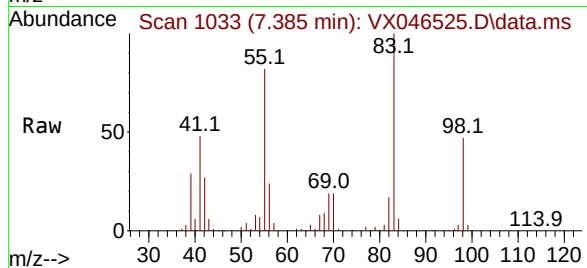
98 47.1 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#40

Benzene

Concen: 49.672 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.012 min

Lab File: VX046525.D

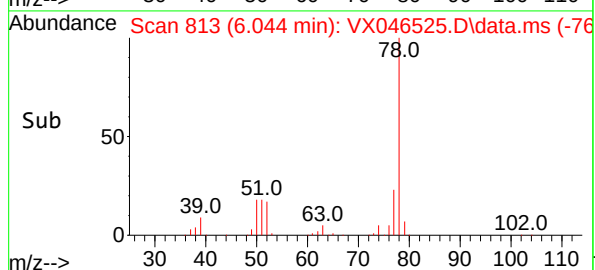
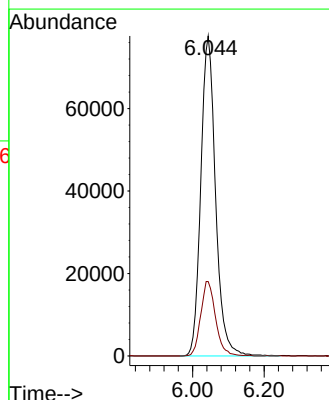
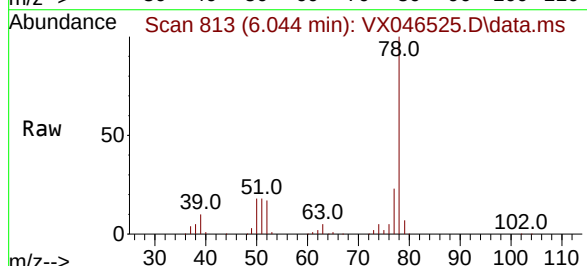
Acq: 06 Jun 2025 14:11

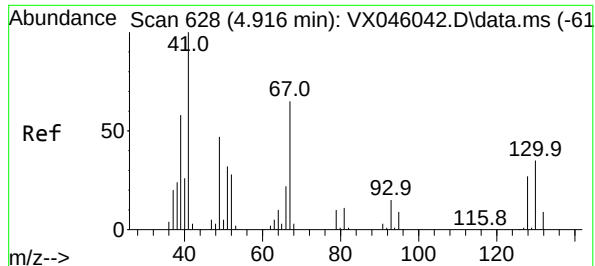
Tgt Ion: 78 Resp: 221890

Ion Ratio Lower Upper

78 100

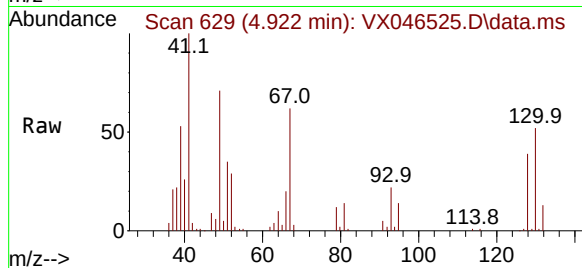
77 23.3 19.0 28.4





#41
Methacrylonitrile
Concen: 56.282 ug/l
RT: 4.922 min Scan# 612
Delta R.T. -0.012 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

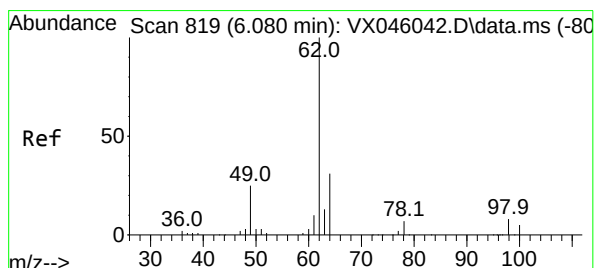
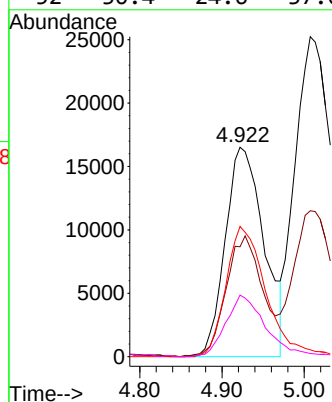
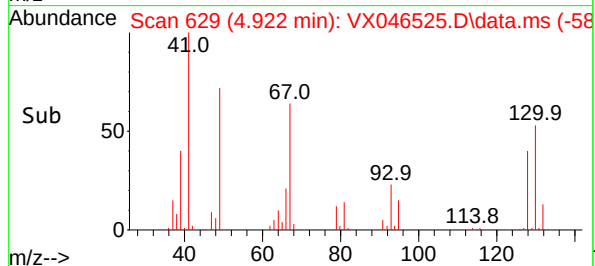
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 41 Resp: 54128
Ion Ratio Lower Upper
41 100
39 53.5 47.2 70.8
67 64.3 50.7 76.1
52 30.4 24.6 37.0

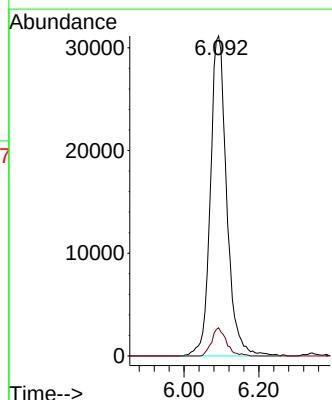
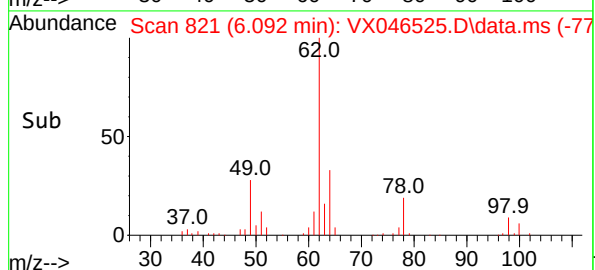
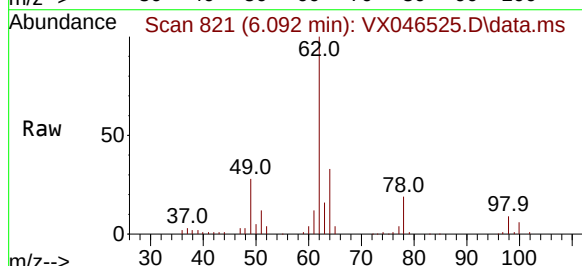
Manual Integrations
APPROVED

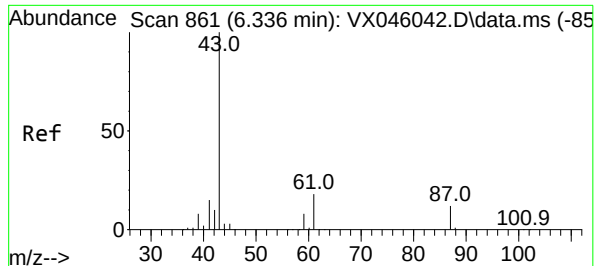
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#42
1,2-Dichloroethane
Concen: 50.897 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 62 Resp: 94588
Ion Ratio Lower Upper
62 100
98 7.9 0.0 15.2





#43

Isopropyl Acetate

Concen: 54.290 ug/l

RT: 6.342 min Scan# 80

Delta R.T. -0.012 min

Lab File: VX046525.D

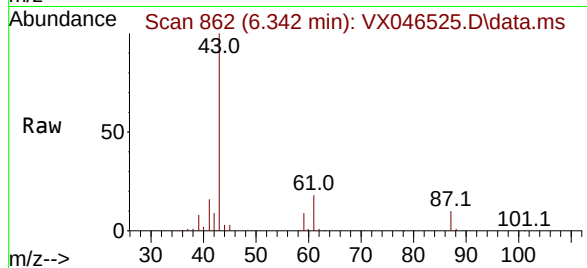
Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625



Tgt Ion: 43 Resp: 146579

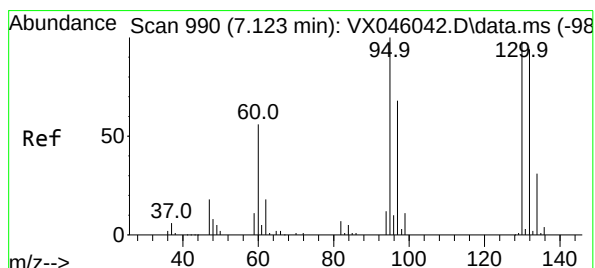
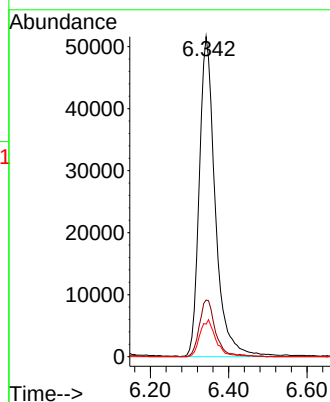
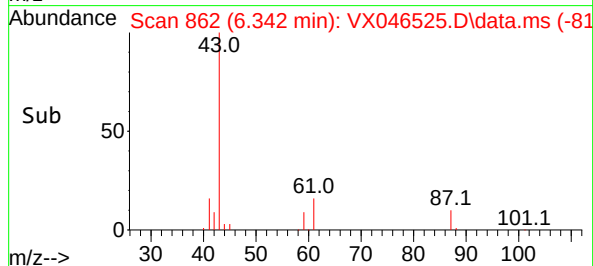
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.3	21.5
87	11.6	9.5	14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#44

Trichloroethene

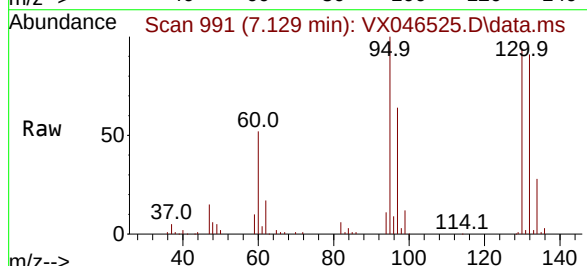
Concen: 47.764 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

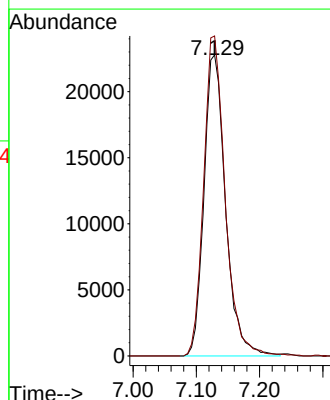
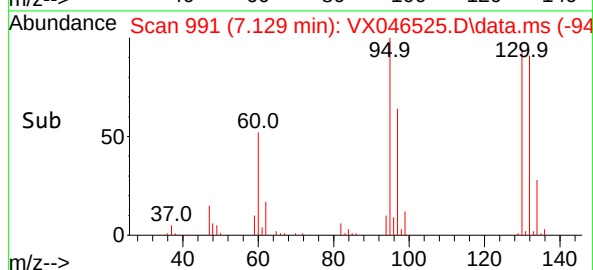
Lab File: VX046525.D

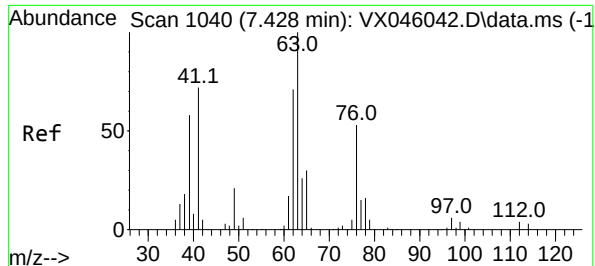
Acq: 06 Jun 2025 14:11



Tgt Ion:130 Resp: 54213

Ion	Ratio	Lower	Upper
130	100		
95	106.3	0.0	204.2





#45

1,2-Dichloropropane

Concen: 51.417 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 63 Resp: 5928

Ion Ratio Lower Upper

63 100

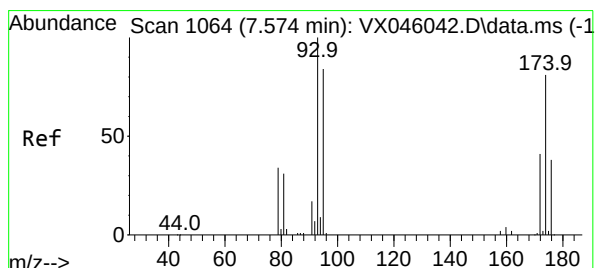
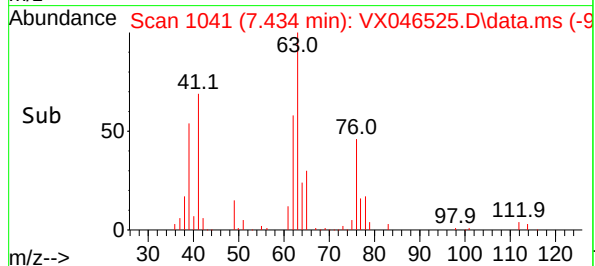
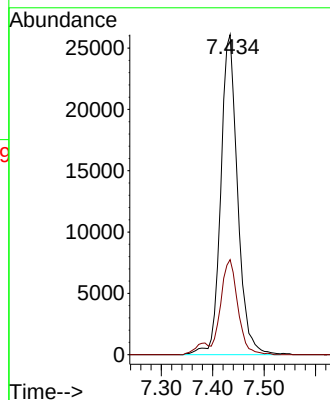
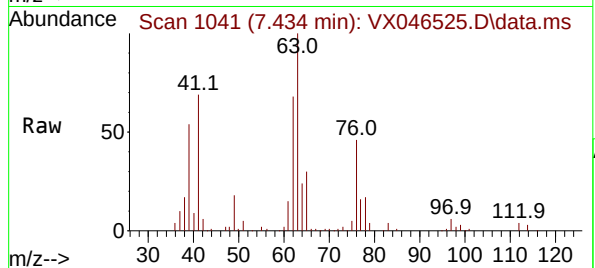
65 29.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#46

Dibromomethane

Concen: 50.807 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

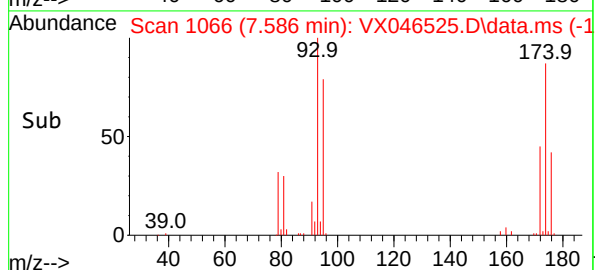
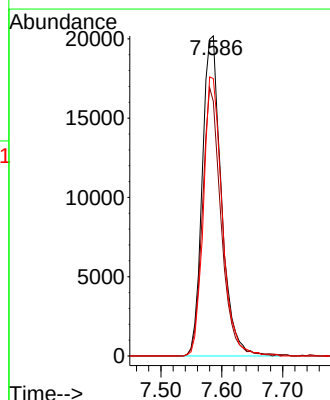
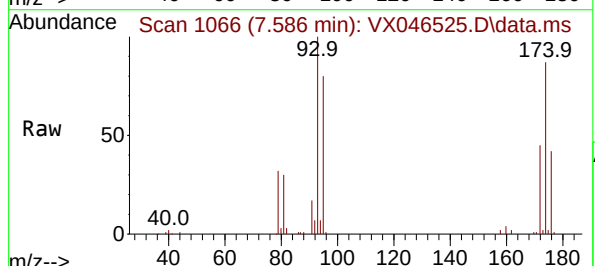
Tgt Ion: 93 Resp: 44071

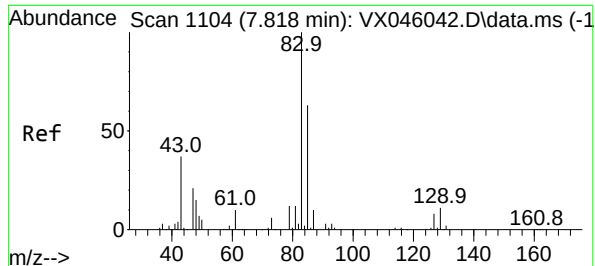
Ion Ratio Lower Upper

93 100

95 81.4 65.6 98.4

174 85.8 68.2 102.2





#47

Bromodichloromethane

Concen: 52.906 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

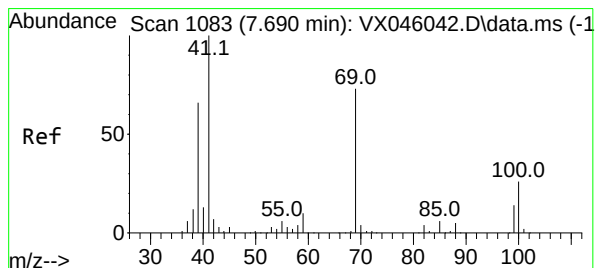
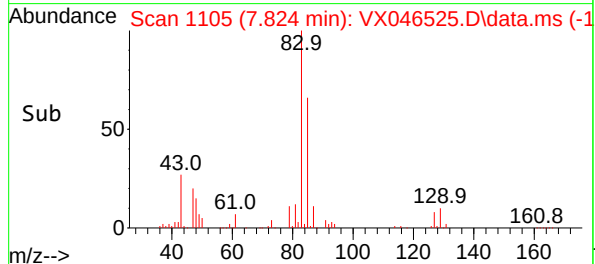
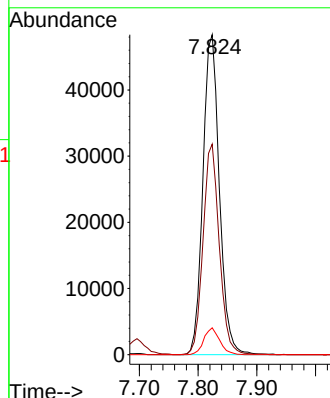
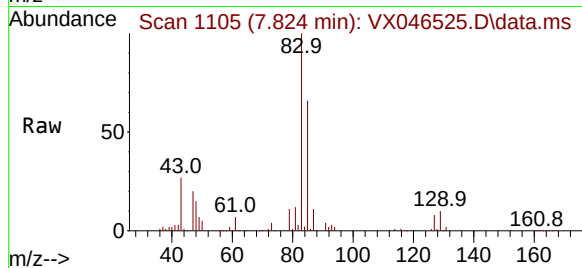
Tgt Ion:	83	Resp:	9436
Ion	Ratio	Lower	Upper
83	100		
85	65.8	50.5	75.7
127	8.4	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#48

Methyl methacrylate

Concen: 54.806 ug/l

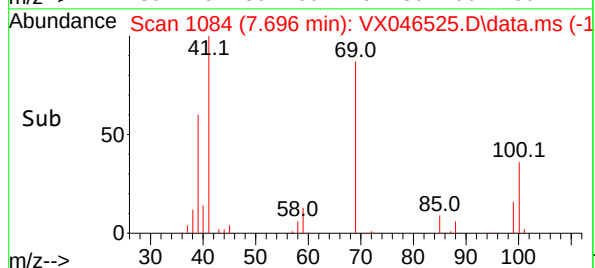
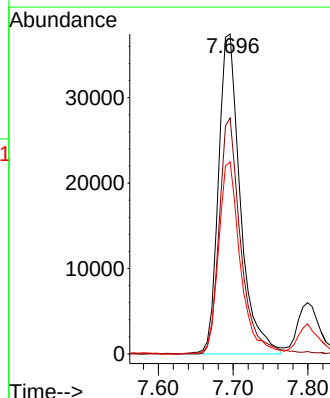
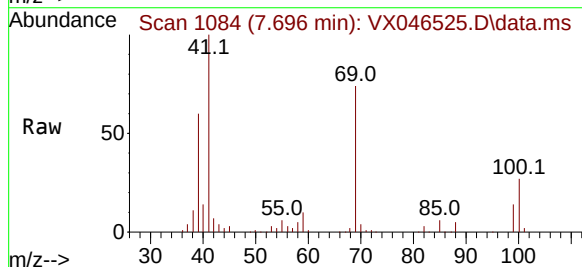
RT: 7.696 min Scan# 1084

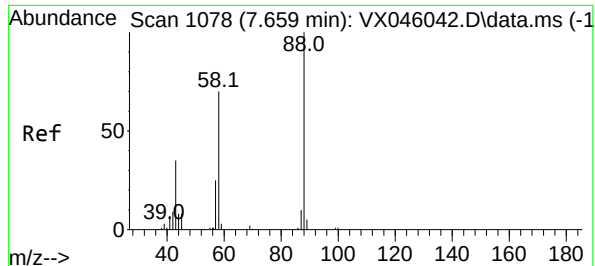
Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Tgt Ion:	41	Resp:	76134
Ion	Ratio	Lower	Upper
41	100		
69	72.8	58.5	87.7
39	60.1	51.7	77.5





#49

1,4-Dioxane

Concen: 1082.971 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 88 Resp: 20118

Ion Ratio Lower Upper

88 100

43 43.3 33.4 50.2

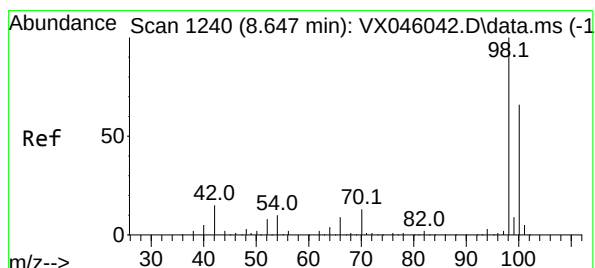
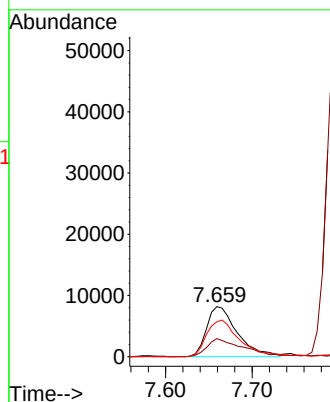
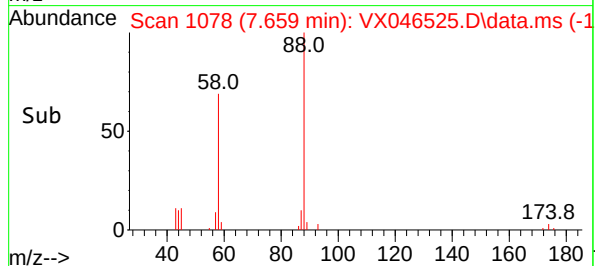
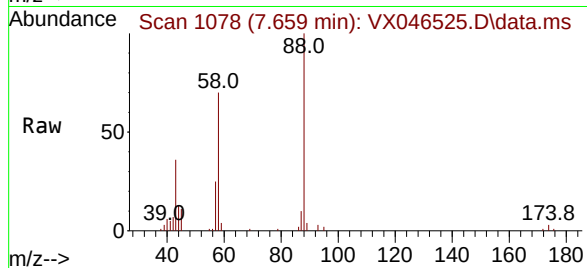
58 79.7 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#50

Toluene-d8

Concen: 50.025 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX046525.D

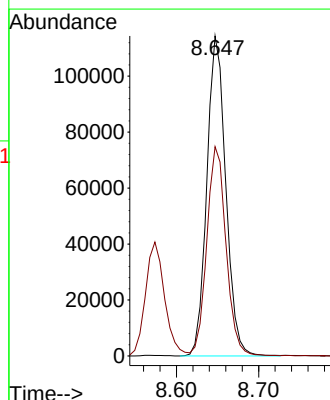
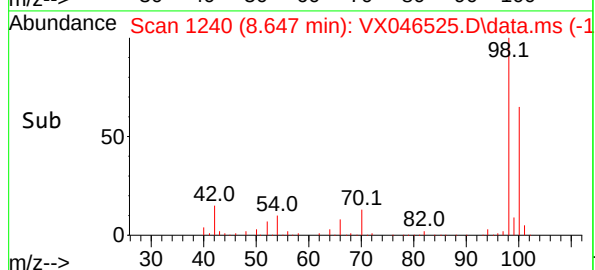
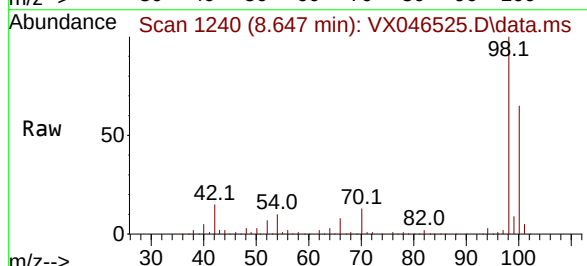
Acq: 06 Jun 2025 14:11

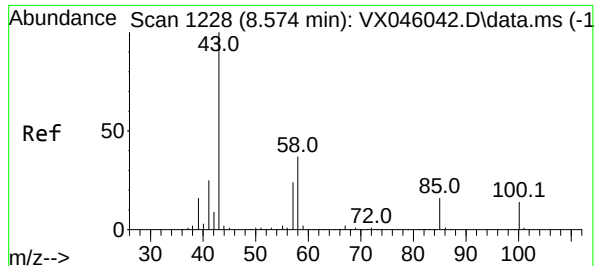
Tgt Ion: 98 Resp: 183212

Ion Ratio Lower Upper

98 100

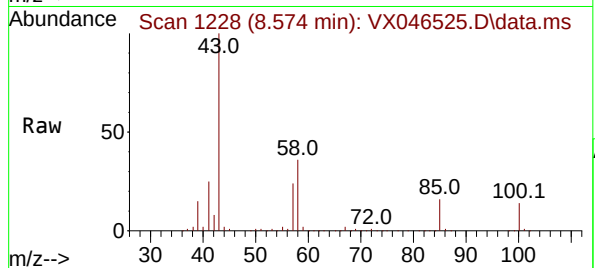
100 66.3 53.5 80.3





#51
4-Methyl-2-Pentanone
Concen: 271.760 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.001 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

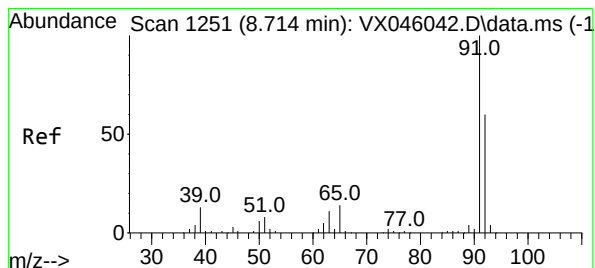
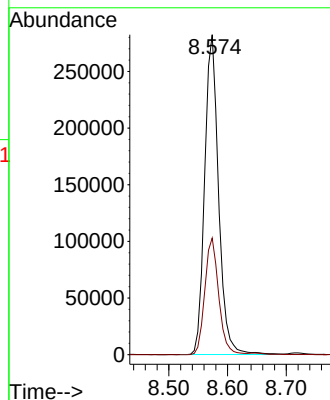
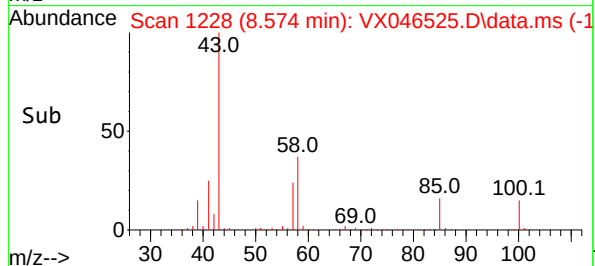
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion: 43 Resp: 466259
Ion Ratio Lower Upper
43 100
58 36.3 28.9 43.3

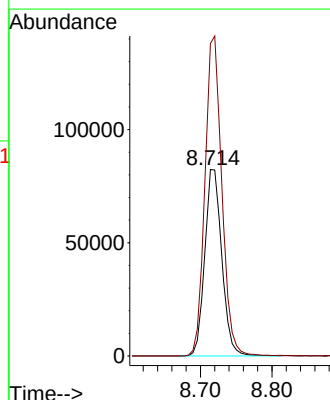
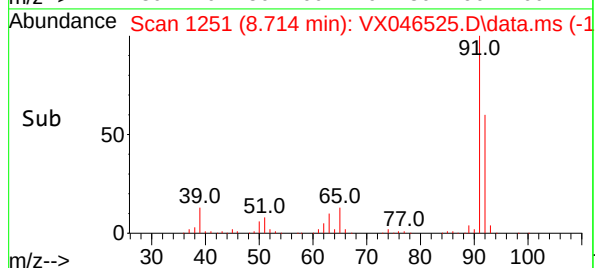
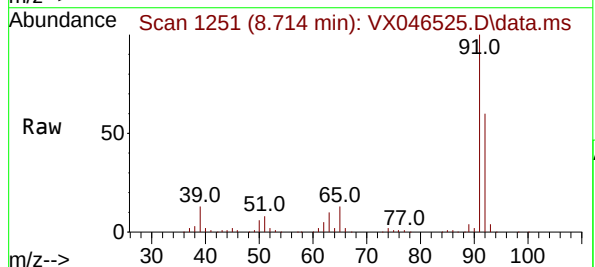
Manual Integrations
APPROVED

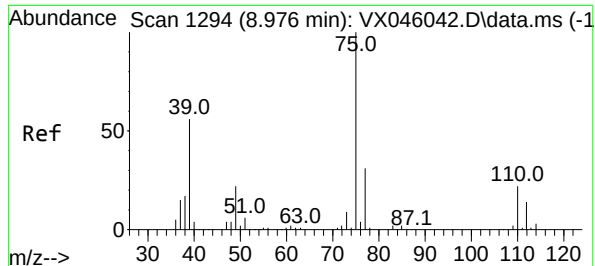
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#52
Toluene
Concen: 49.719 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 92 Resp: 136448
Ion Ratio Lower Upper
92 100
91 170.1 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 53.526 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 75 Resp: 85590

Ion Ratio Lower Upper

75 100

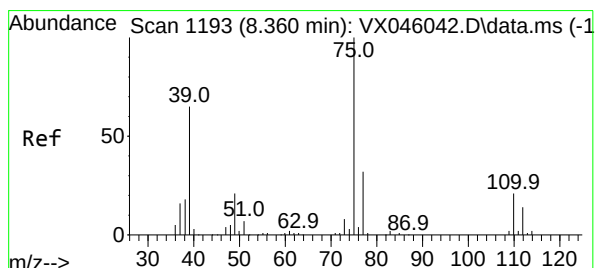
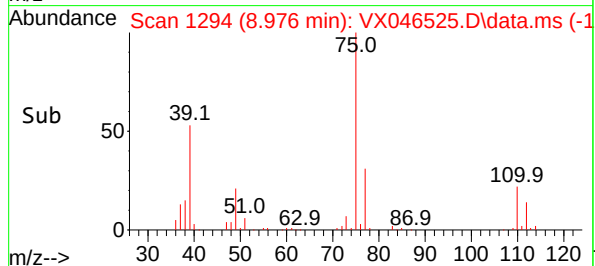
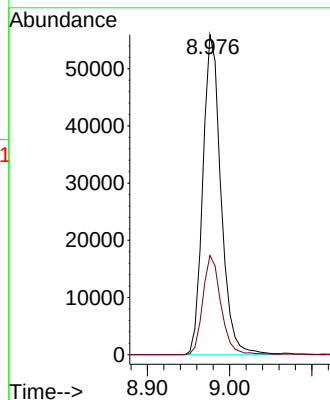
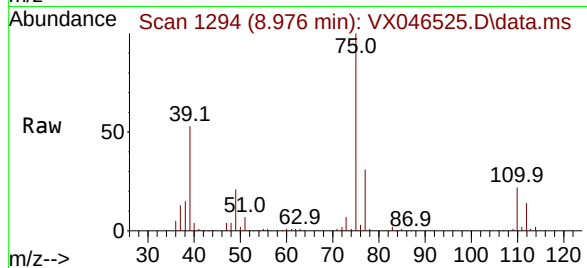
77 31.0 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#54

cis-1,3-Dichloropropene

Concen: 51.896 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

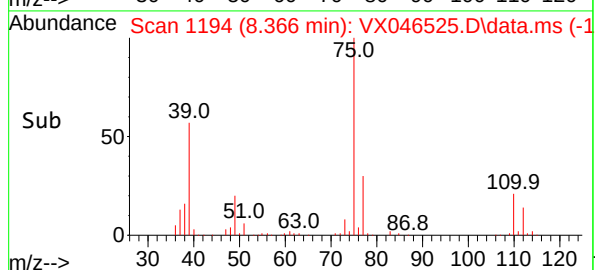
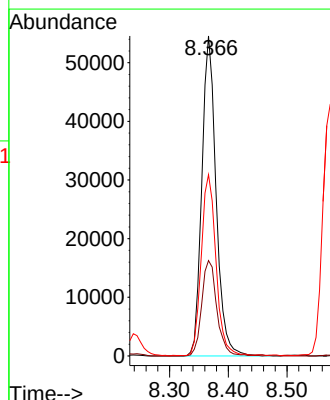
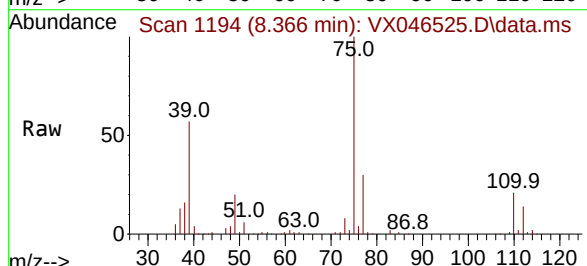
Tgt Ion: 75 Resp: 92273

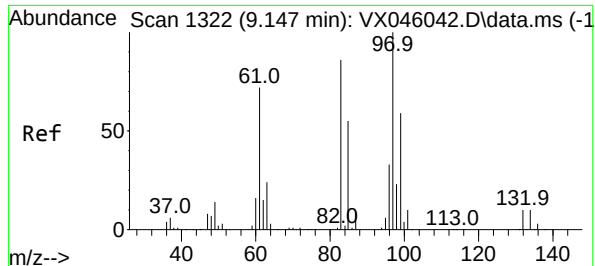
Ion Ratio Lower Upper

75 100

77 29.8 25.4 38.0

39 56.6 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 51.993 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 97 Resp: 5728

Ion Ratio Lower Upper

97 100

83 86.4 69.0 103.6

85 56.1 44.3 66.5

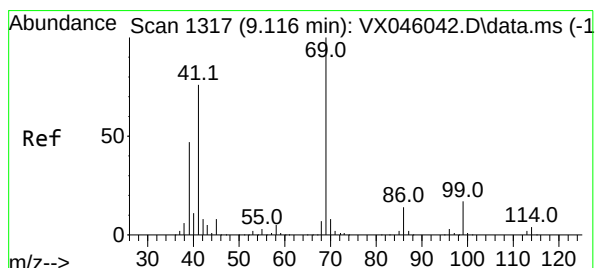
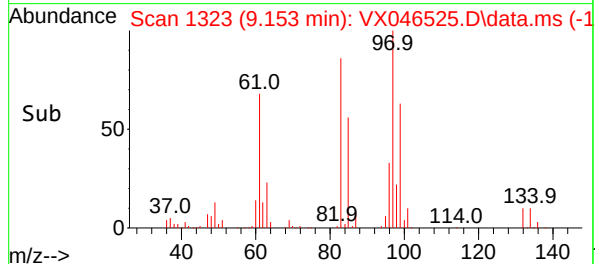
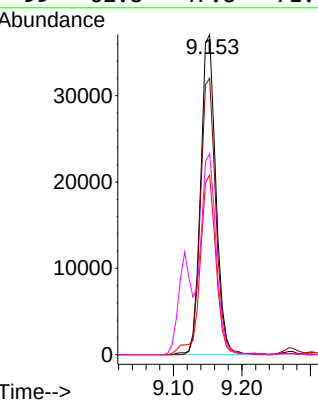
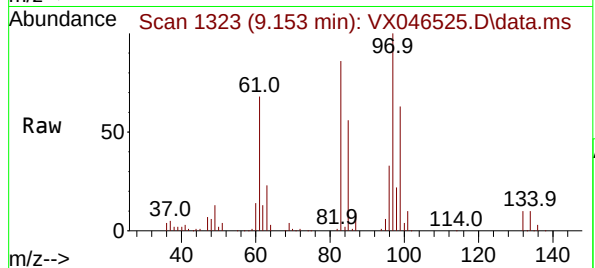
99 62.8 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#56

Ethyl methacrylate

Concen: 54.440 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

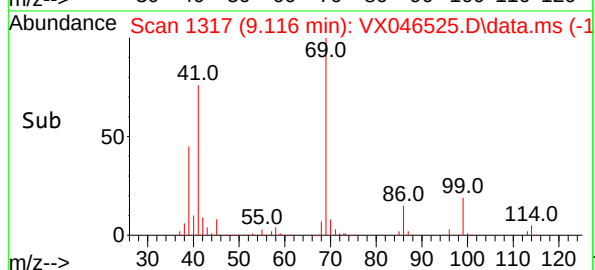
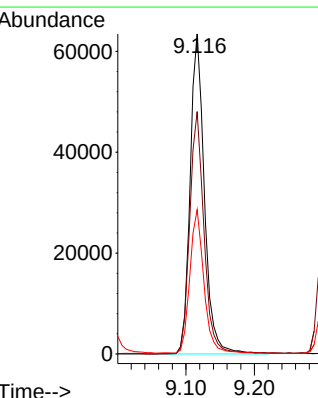
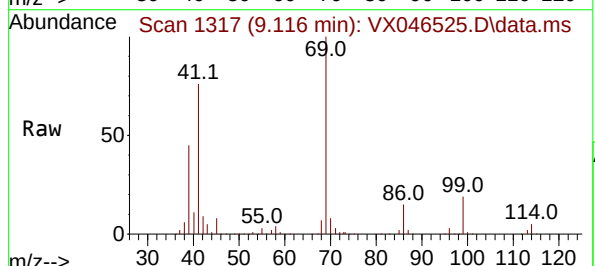
Tgt Ion: 69 Resp: 92299

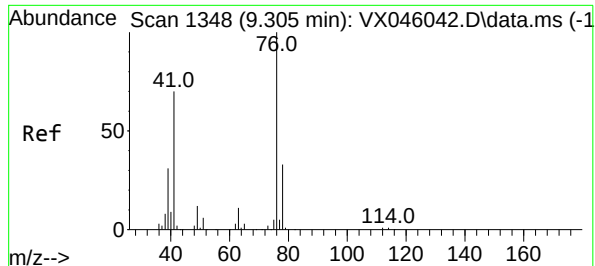
Ion Ratio Lower Upper

69 100

41 76.5 60.8 91.2

39 44.7 39.0 58.6





#57

1,3-Dichloropropane

Concen: 50.718 ug/l

RT: 9.305 min Scan# 1174

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 76 Resp: 98748

Ion Ratio Lower Upper

76 100

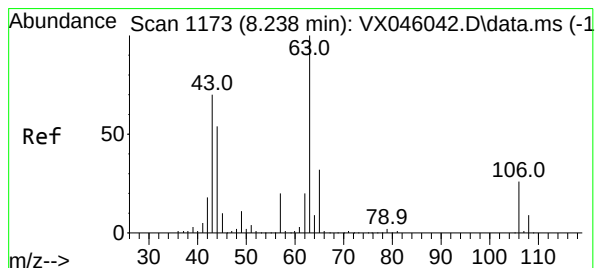
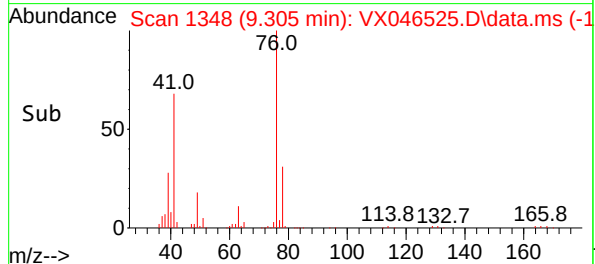
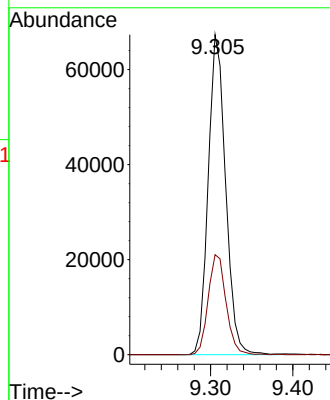
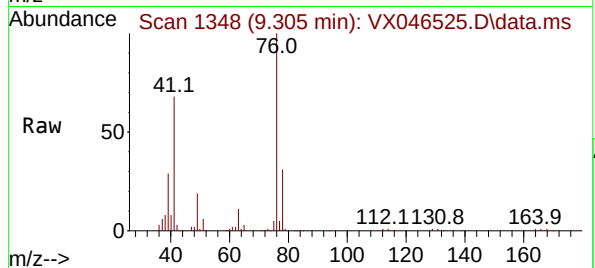
78 32.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#58

2-Chloroethyl Vinyl ether

Concen: 260.553 ug/l

RT: 8.245 min Scan# 1174

Delta R.T. 0.001 min

Lab File: VX046525.D

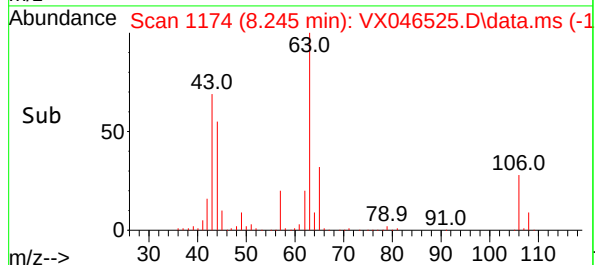
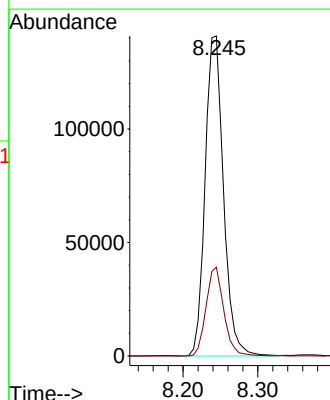
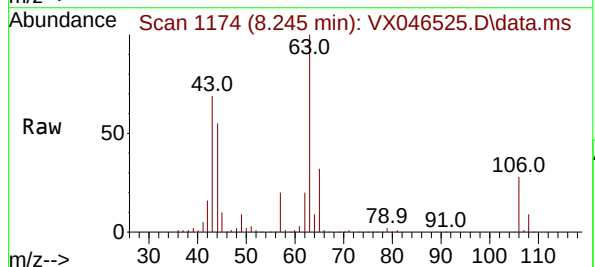
Acq: 06 Jun 2025 14:11

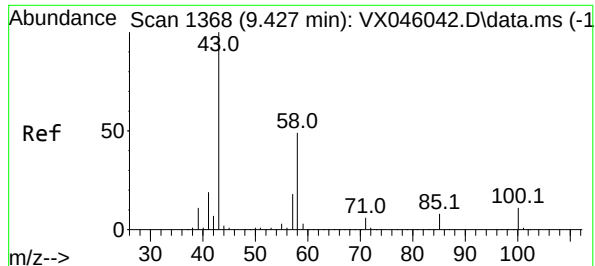
Tgt Ion: 63 Resp: 240616

Ion Ratio Lower Upper

63 100

106 26.7 21.5 32.3





#59

2-Hexanone

Concen: 274.165 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 43 Resp: 33735

Ion Ratio Lower Upper

43 100

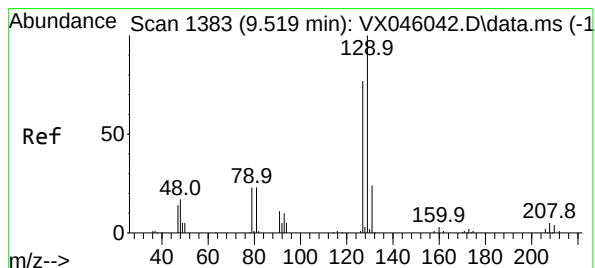
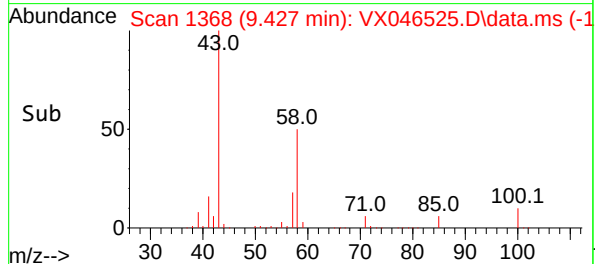
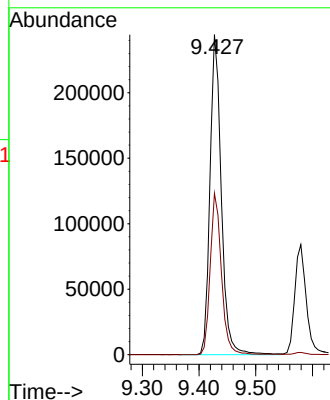
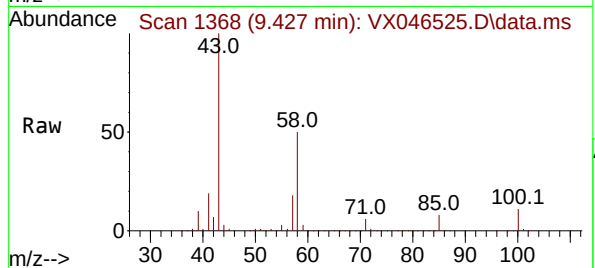
58 50.3 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#60

Dibromochloromethane

Concen: 53.100 ug/l

RT: 9.519 min Scan# 1383

Delta R.T. -0.006 min

Lab File: VX046525.D

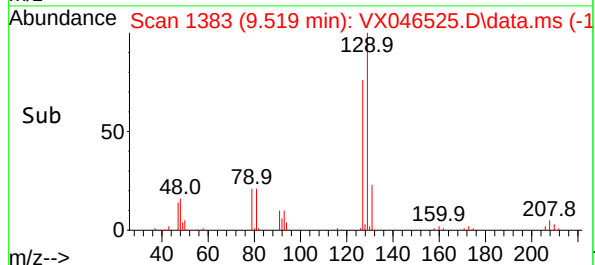
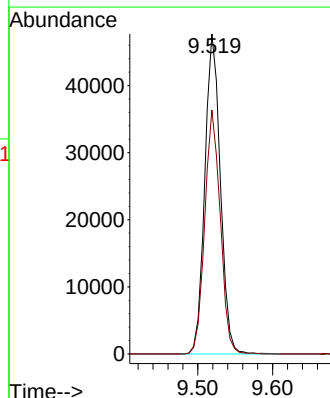
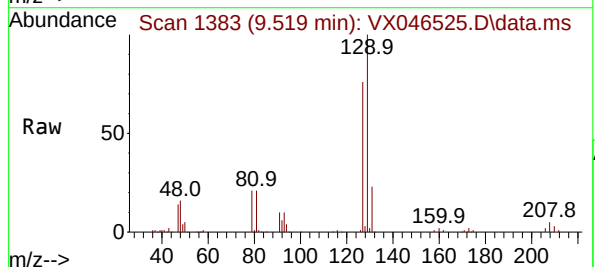
Acq: 06 Jun 2025 14:11

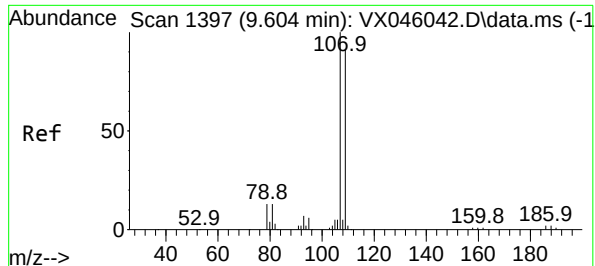
Tgt Ion:129 Resp: 68814

Ion Ratio Lower Upper

129 100

127 76.3 39.3 117.8





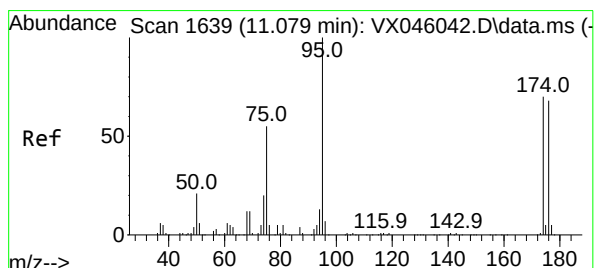
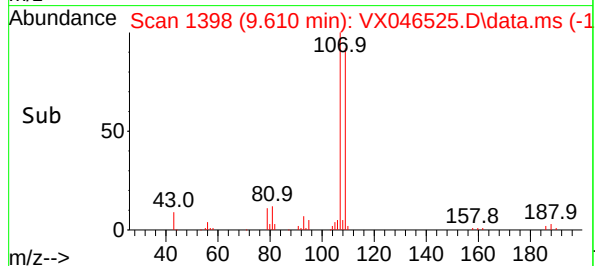
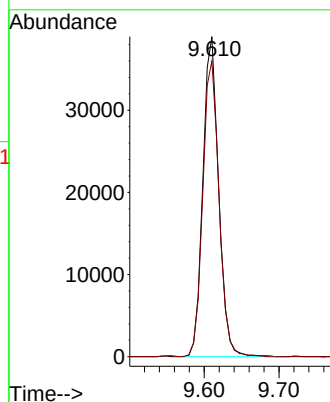
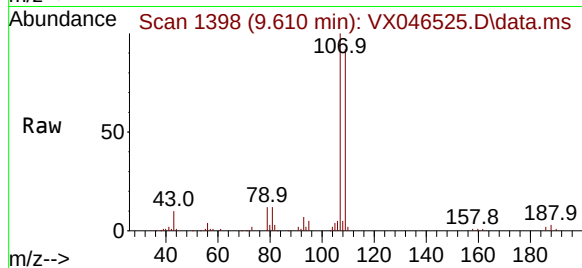
#61
1,2-Dibromoethane
Concen: 49.689 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVX060625

Tgt Ion:107 Resp: 57040
Ion Ratio Lower Upper
107 100
109 95.1 73.3 109.9

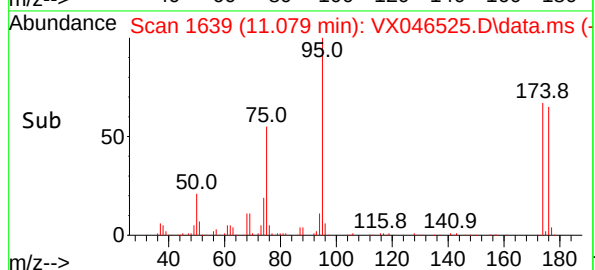
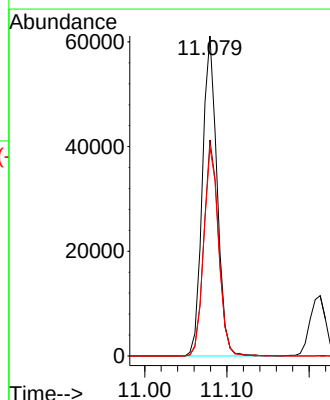
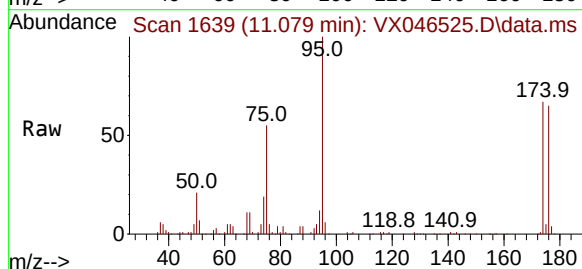
Manual Integrations
APPROVED

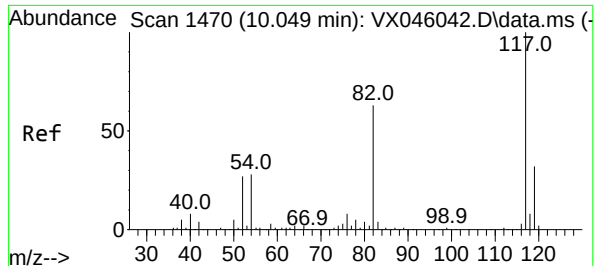
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#62
4-Bromofluorobenzene
Concen: 49.880 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

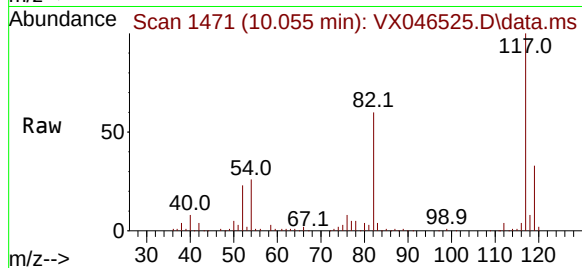
Tgt Ion: 95 Resp: 75584
Ion Ratio Lower Upper
95 100
174 67.5 0.0 135.8
176 65.6 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

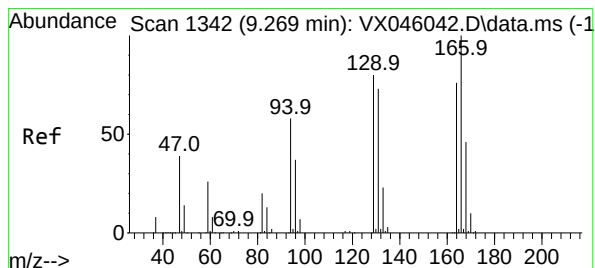
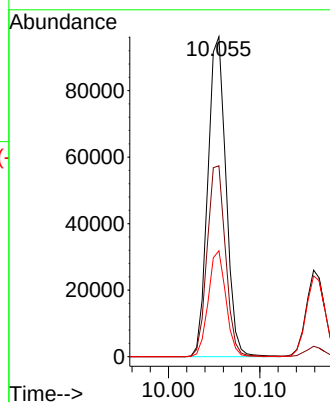
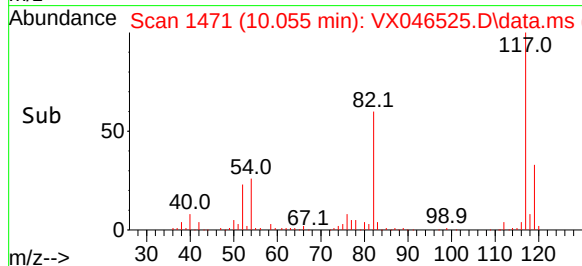
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:117 Resp: 132539
Ion Ratio Lower Upper
117 100
82 59.6 50.6 76.0
119 33.1 25.8 38.6

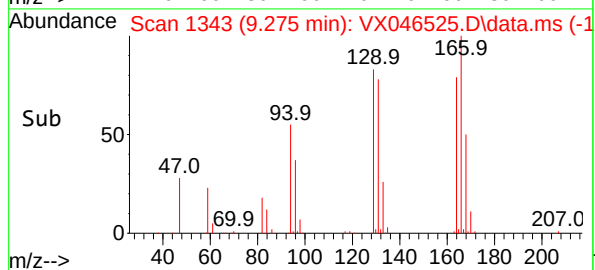
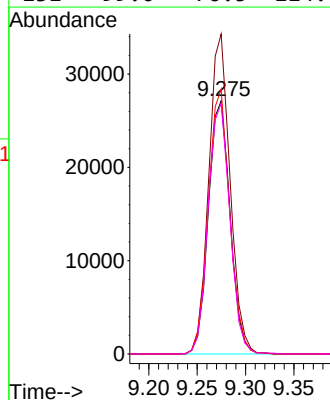
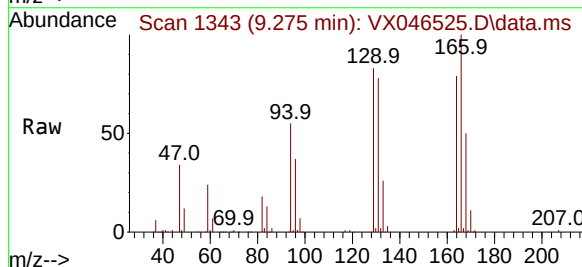
Manual Integrations
APPROVED

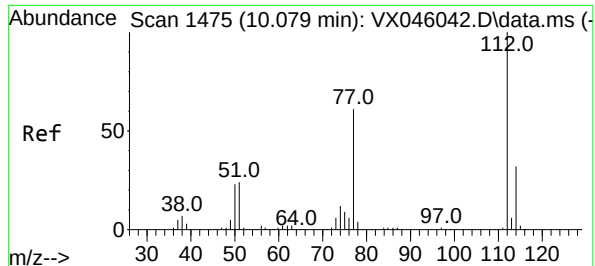
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#64
Tetrachloroethene
Concen: 47.739 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion:164 Resp: 42310
Ion Ratio Lower Upper
164 100
166 126.5 105.0 157.6
129 104.6 83.5 125.3
131 99.0 76.5 114.7





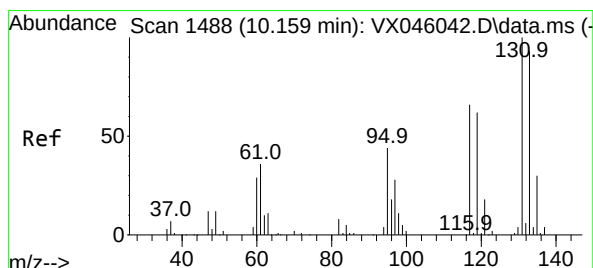
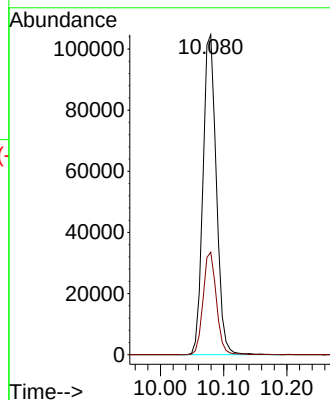
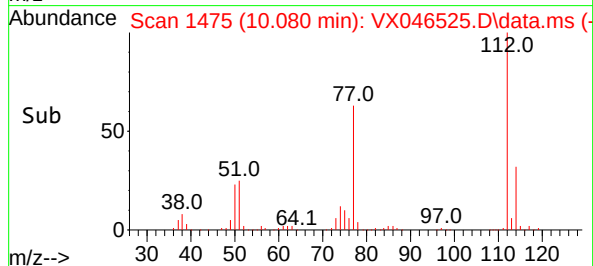
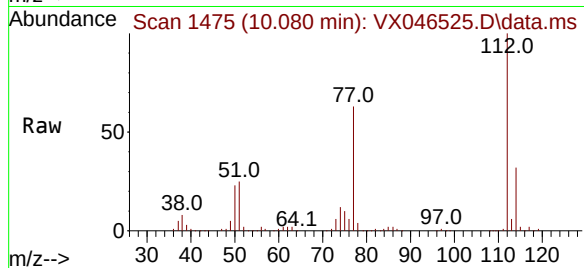
#65
Chlorobenzene
Concen: 49.518 ug/l
RT: 10.080 min Scan# 1475
Delta R.T. 0.001 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Tgt Ion:112 Resp: 15435
Ion Ratio Lower Upper
112 100
114 32.0 25.4 38.2

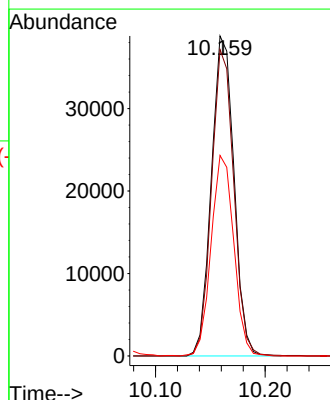
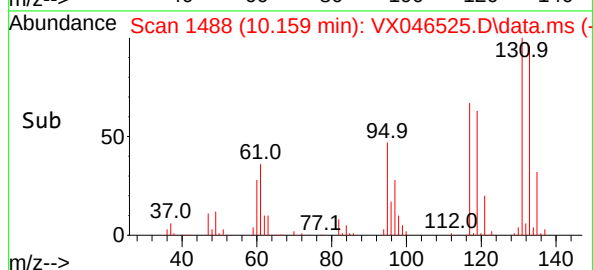
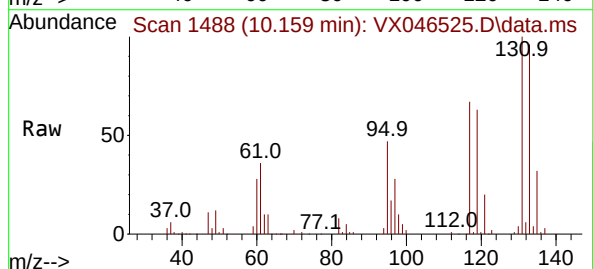
Manual Integrations
APPROVED

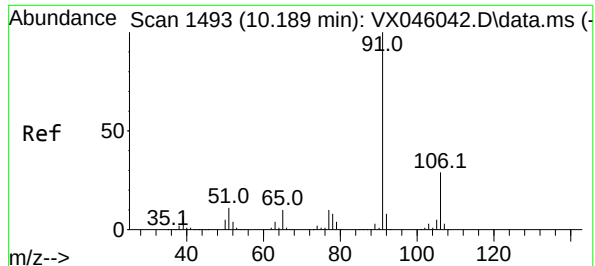
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 52.723 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion:131 Resp: 55536
Ion Ratio Lower Upper
131 100
133 94.1 47.3 141.9
119 63.0 31.6 95.0





#67

Ethyl Benzene

Concen: 50.288 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 91 Resp: 273659

Ion Ratio Lower Upper

91 100

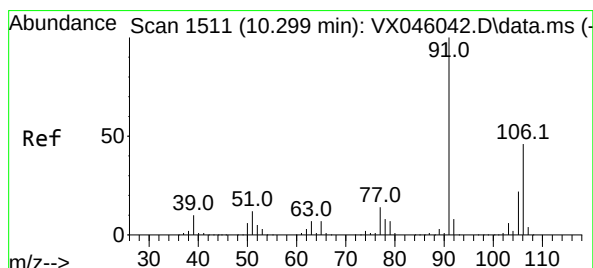
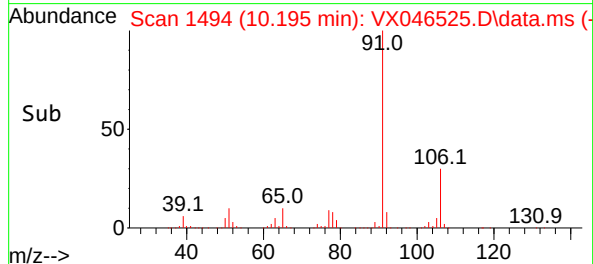
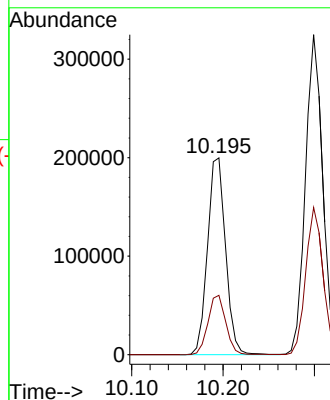
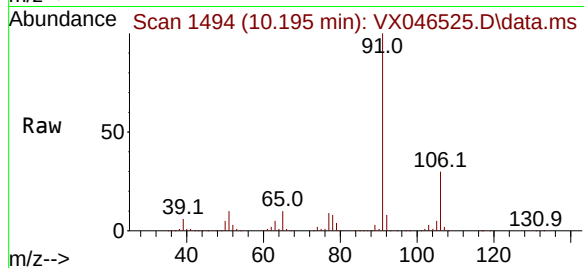
106 30.2 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#68

m/p-Xylenes

Concen: 100.941 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX046525.D

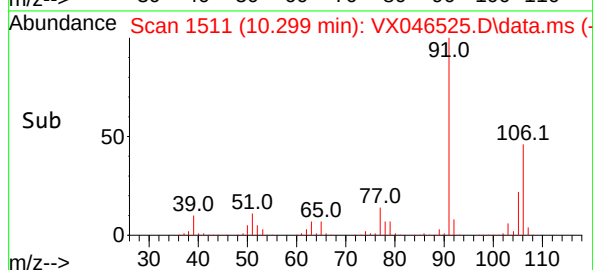
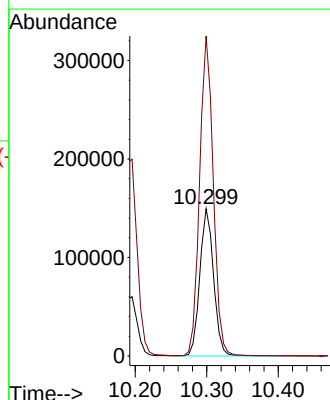
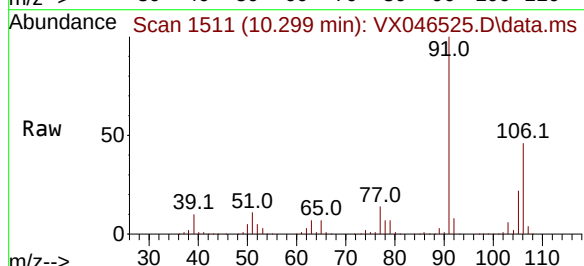
Acq: 06 Jun 2025 14:11

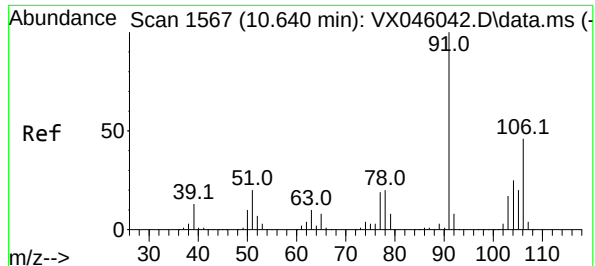
Tgt Ion:106 Resp: 199258

Ion Ratio Lower Upper

106 100

91 215.6 171.2 256.8





#69

o-Xylene

Concen: 50.882 ug/l

RT: 10.640 min Scan# 1567

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:106 Resp: 9715

Ion Ratio Lower Upper

106 100

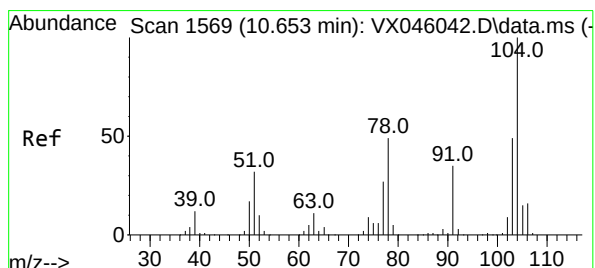
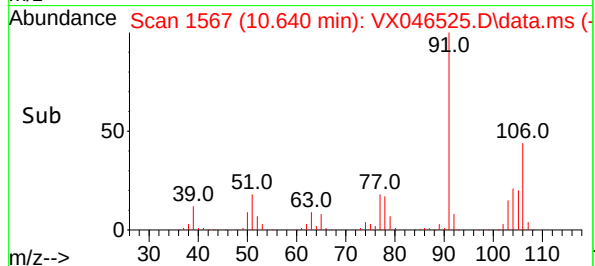
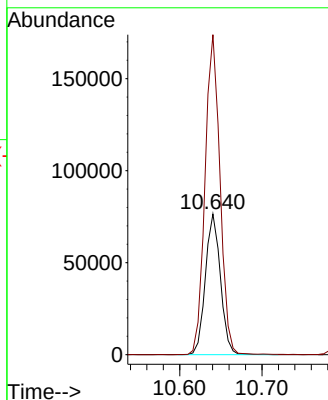
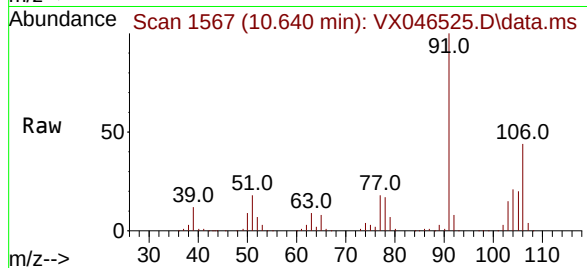
91 227.2 112.7 338.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#70

Styrene

Concen: 51.899 ug/l

RT: 10.653 min Scan# 1569

Delta R.T. -0.005 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

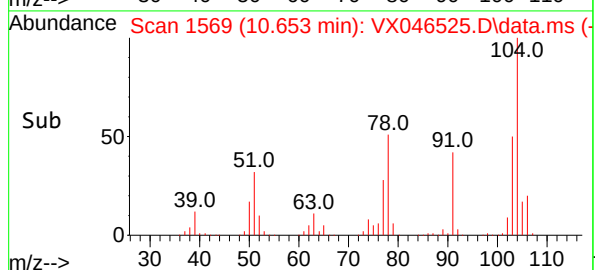
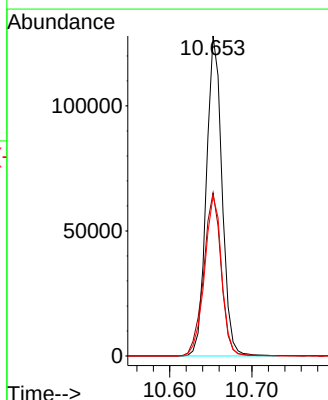
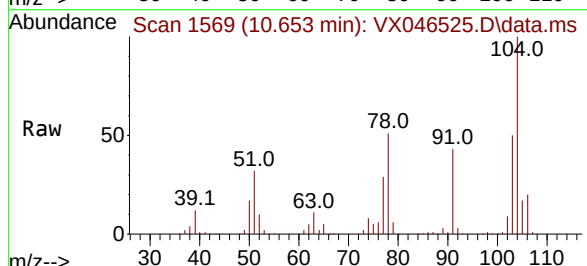
Tgt Ion:104 Resp: 169628

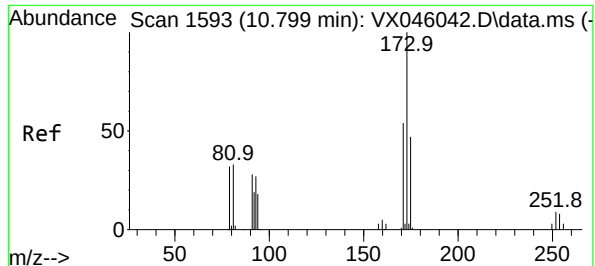
Ion Ratio Lower Upper

104 100

78 56.6 45.7 68.5

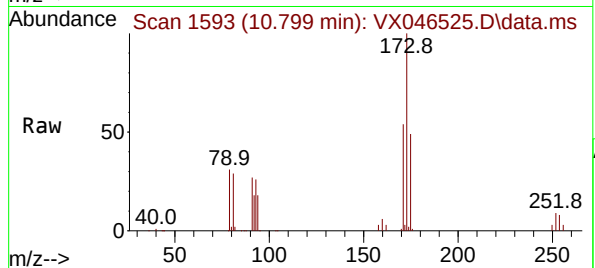
103 54.8 43.7 65.5





#71
Bromoform
Concen: 53.200 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

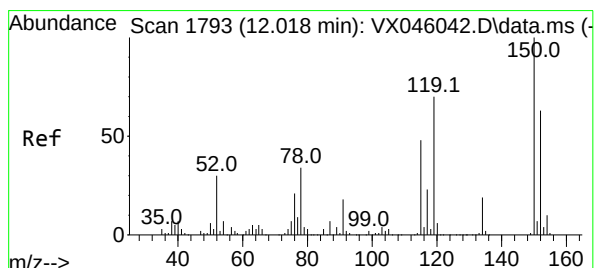
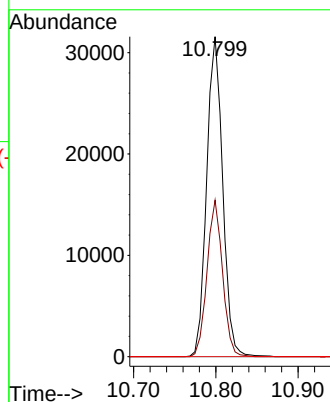
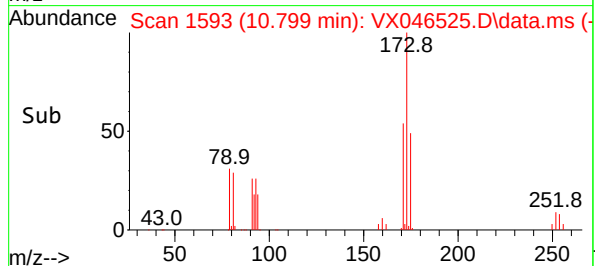
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



Tgt Ion:173 Resp: 42728
Ion Ratio Lower Upper
173 100
175 47.3 23.4 70.0
254 0.0 0.0 0.0

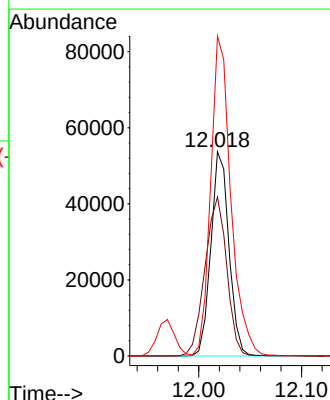
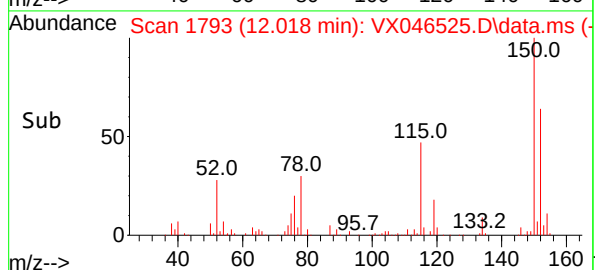
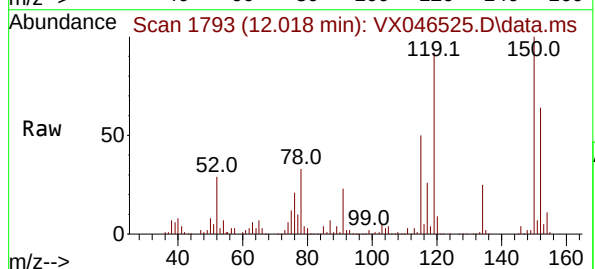
Manual Integrations
APPROVED

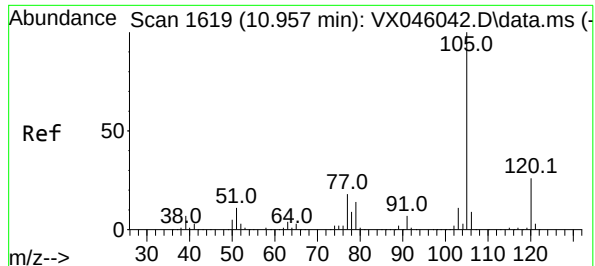
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion:152 Resp: 65454
Ion Ratio Lower Upper
152 100
115 93.8 46.9 140.7
150 174.6 0.0 351.0





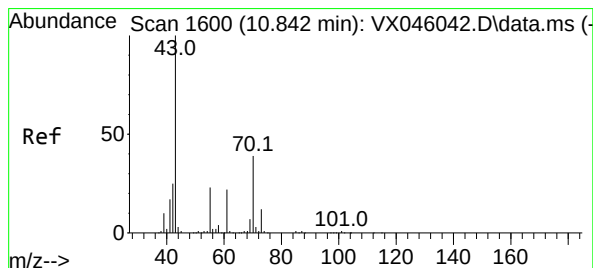
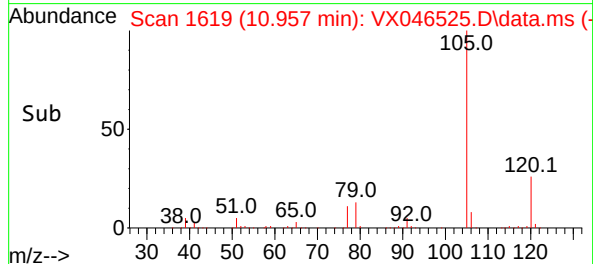
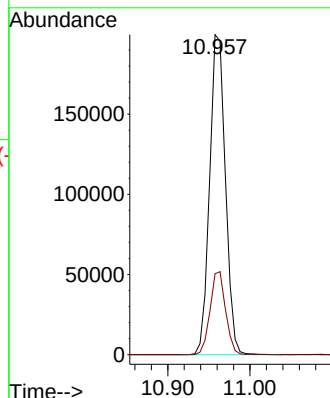
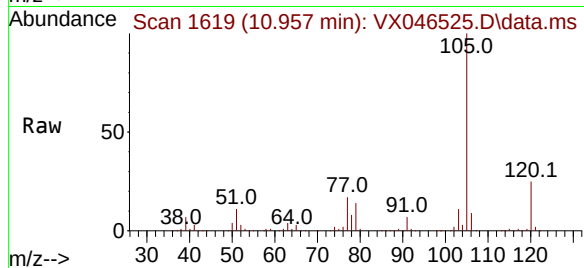
#73
Isopropylbenzene
Concen: 51.765 ug/l
RT: 10.957 min Scan# 1619
Delta R.T. -0.006 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Instrument :
MSVOA_X
ClientSampleId :
ICVX060625

Tgt Ion:105 Resp: 26634
Ion Ratio Lower Upper
105 100
120 25.5 12.8 38.4

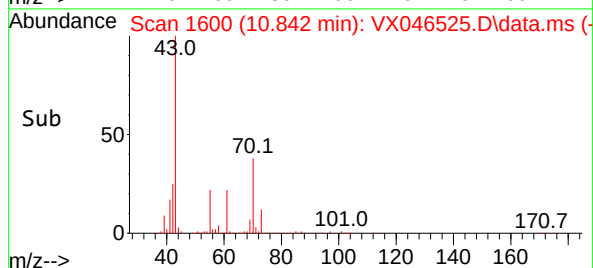
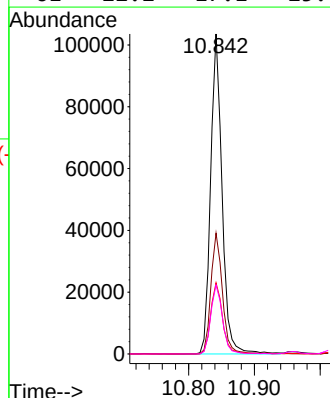
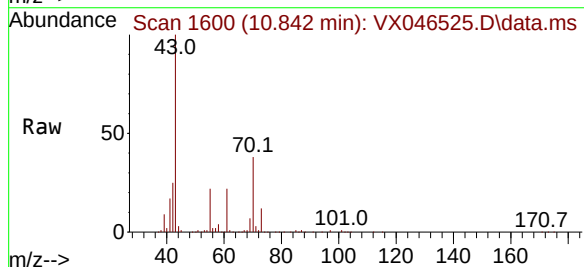
Manual Integrations
APPROVED

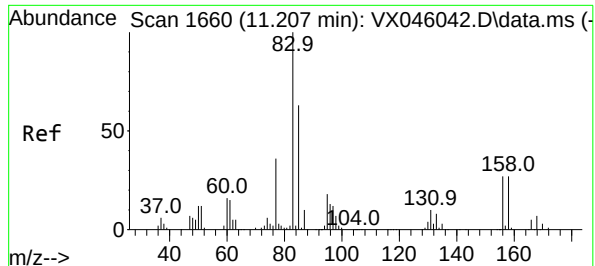
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#74
N-ethyl acetate
Concen: 55.456 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.001 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 43 Resp: 125656
Ion Ratio Lower Upper
43 100
70 38.3 30.9 46.3
55 23.0 18.7 28.1
61 22.2 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 52.405 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

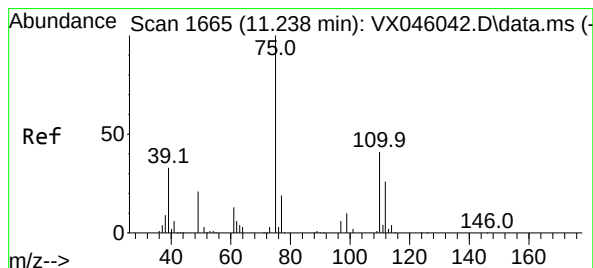
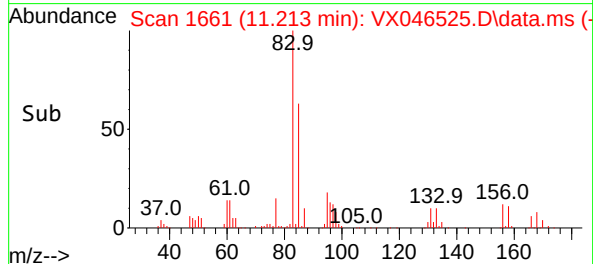
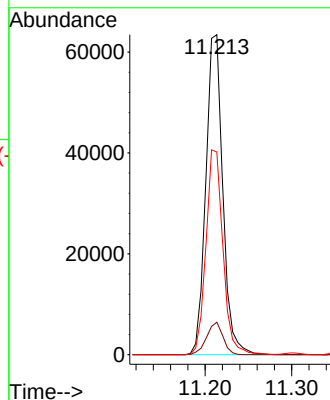
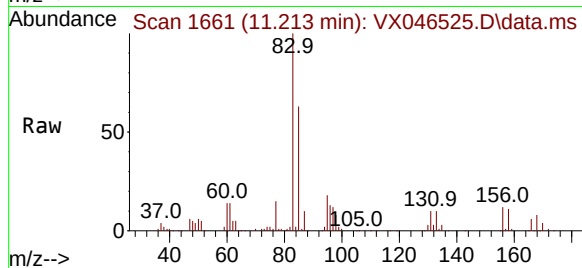
Tgt Ion:	83	Resp:	86308
Ion	Ratio	Lower	Upper
83	100		
131	9.8	5.0	14.9
85	64.2	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#76

1,2,3-Trichloropropane

Concen: 53.262 ug/l m

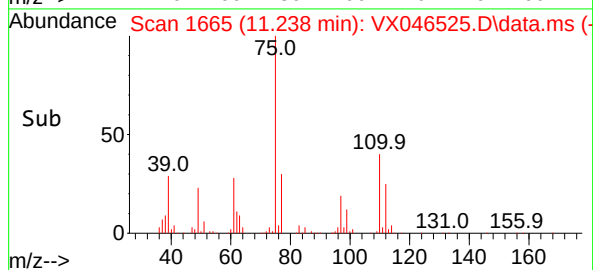
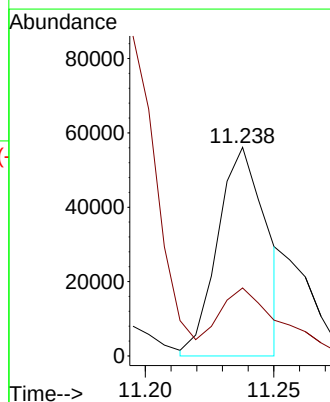
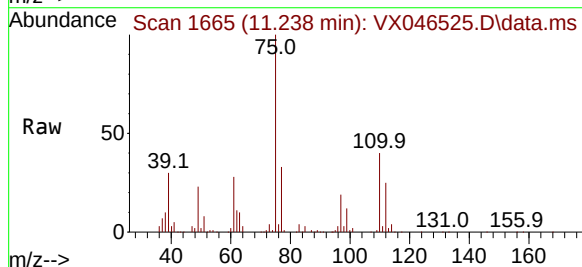
RT: 11.238 min Scan# 1665

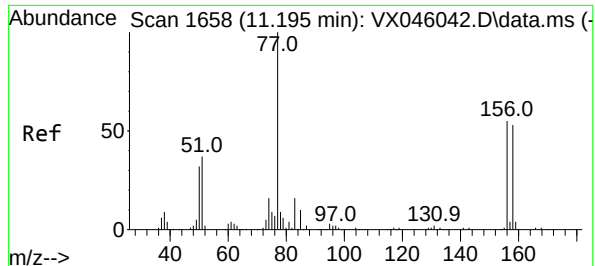
Delta R.T. -0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

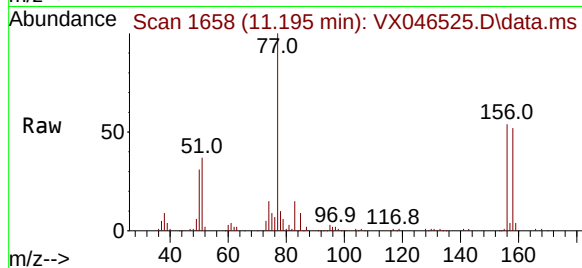
Tgt Ion:	75	Resp:	73842
Ion	Ratio	Lower	Upper
75	100		
77	42.1	20.5	61.5





#77
Bromobenzene
Concen: 50.748 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

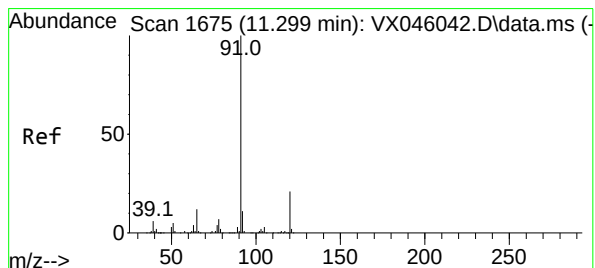
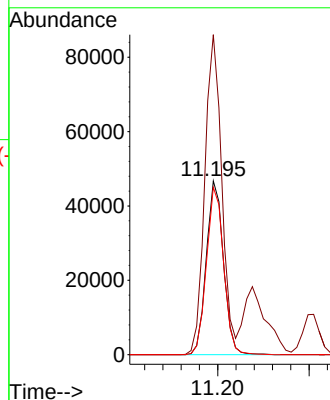
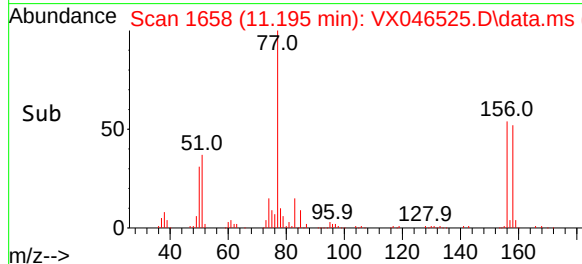
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



Tgt Ion:156 Resp: 6060
Ion Ratio Lower Upper
156 100
77 182.3 92.8 278.3
158 96.7 48.8 146.3

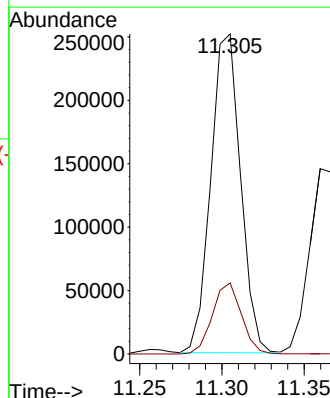
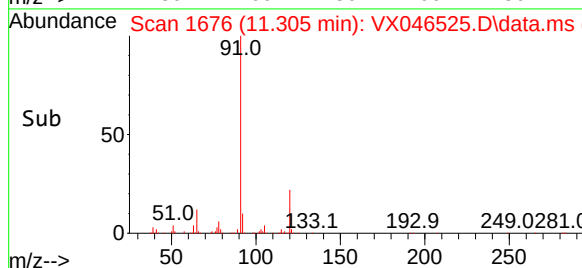
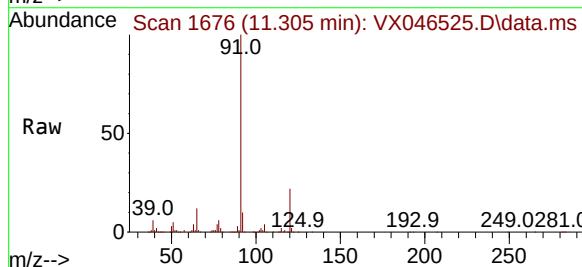
Manual Integrations
APPROVED

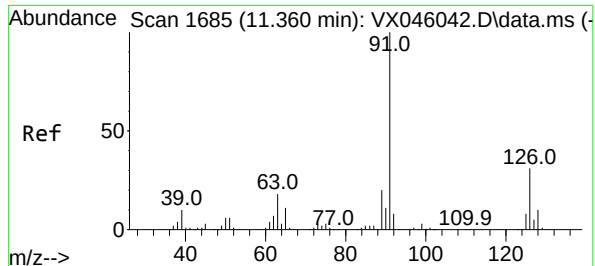
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#78
n-propylbenzene
Concen: 50.860 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 91 Resp: 316743
Ion Ratio Lower Upper
91 100
120 21.7 10.8 32.4





#79

2-Chlorotoluene

Concen: 51.014 ug/l

RT: 11.360 min Scan# 1

Delta R.T. -0.006 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVVX060625

Tgt Ion: 91 Resp: 19158

Ion Ratio Lower Upper

91 100

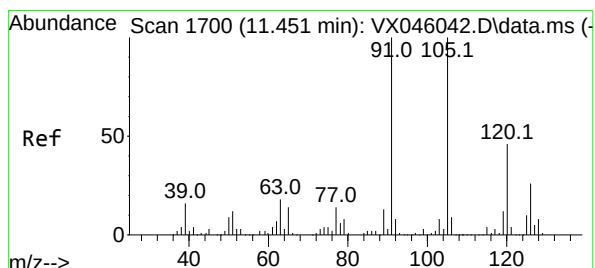
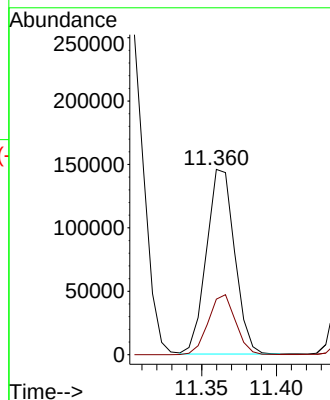
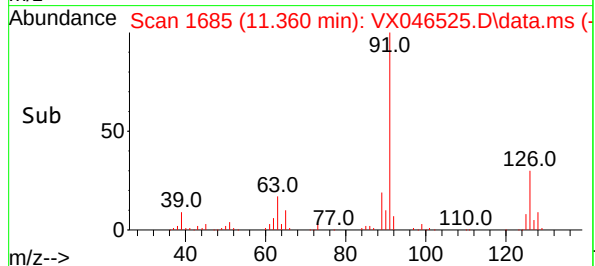
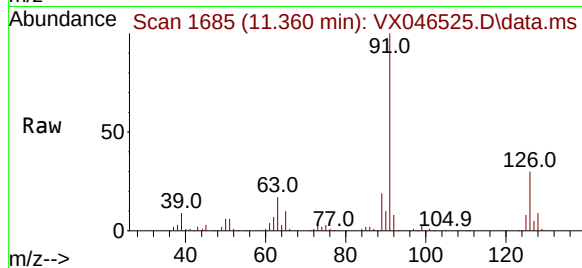
126 31.4 15.6 46.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#80

1,3,5-Trimethylbenzene

Concen: 51.612 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX046525.D

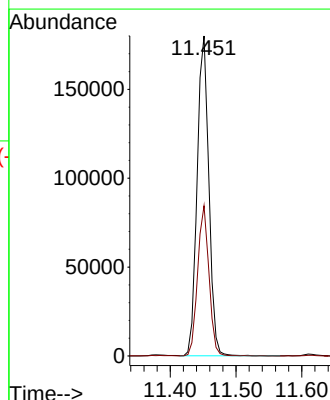
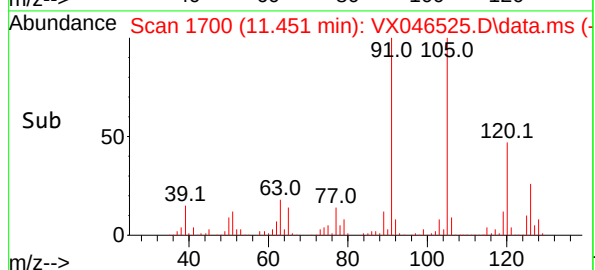
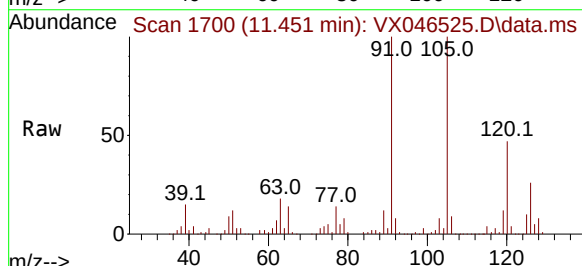
Acq: 06 Jun 2025 14:11

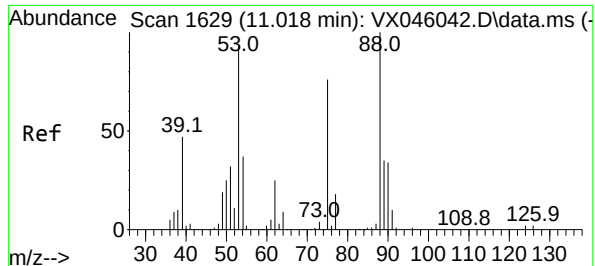
Tgt Ion:105 Resp: 221291

Ion Ratio Lower Upper

105 100

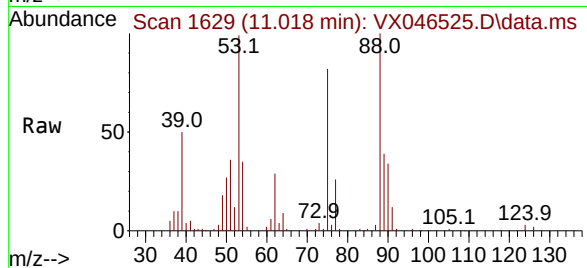
120 45.7 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 55.208 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

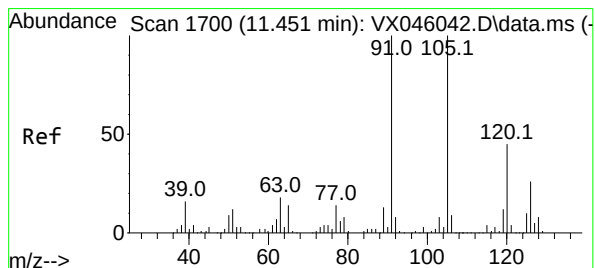
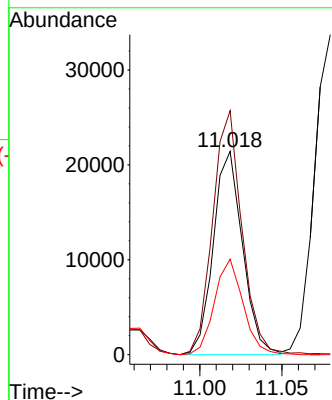
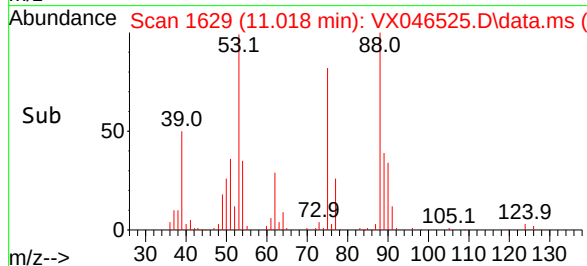
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



Tgt Ion: 75 Resp: 26534
Ion Ratio Lower Upper
75 100
53 120.6 100.5 150.7
89 46.0 37.0 55.6

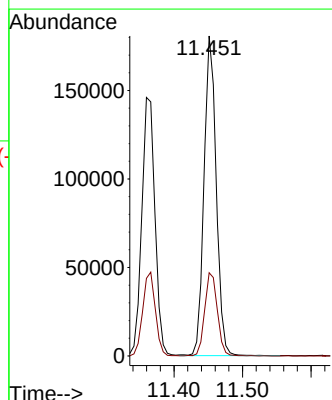
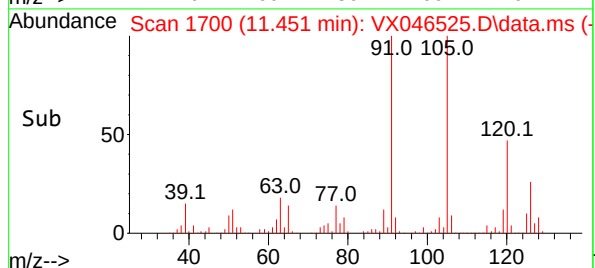
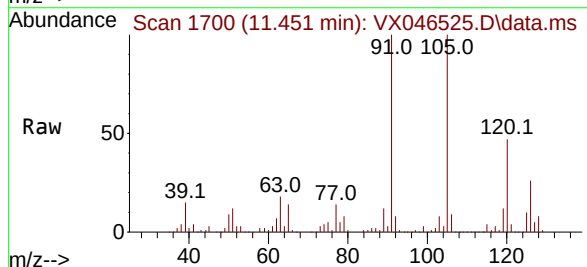
Manual Integrations
APPROVED

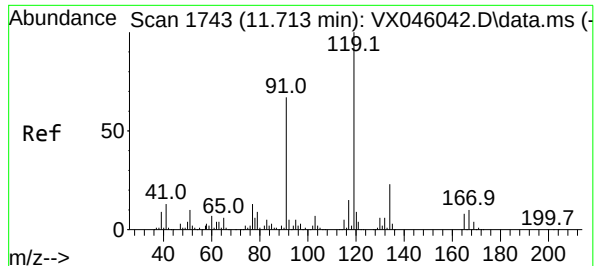
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#82
4-Chlorotoluene
Concen: 50.368 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

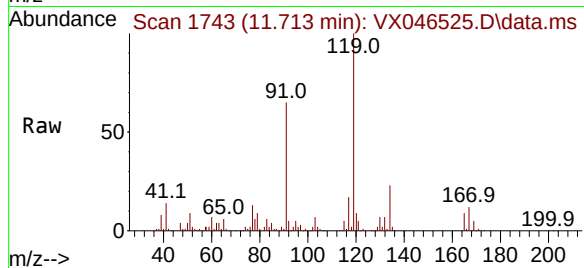
Tgt Ion: 91 Resp: 224207
Ion Ratio Lower Upper
91 100
126 27.0 13.3 39.8





#83
tert-Butylbenzene
Concen: 51.919 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

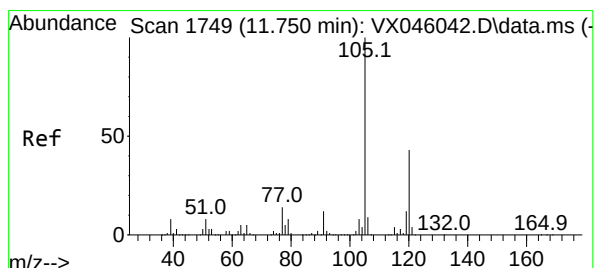
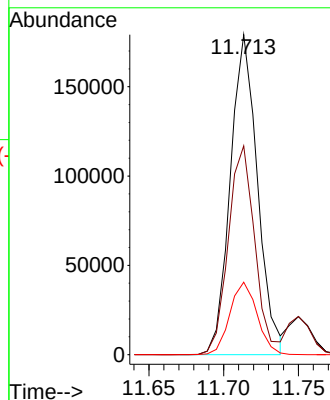
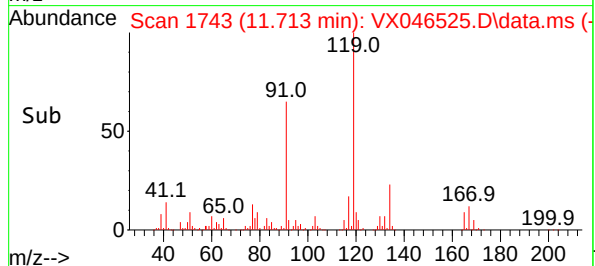
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



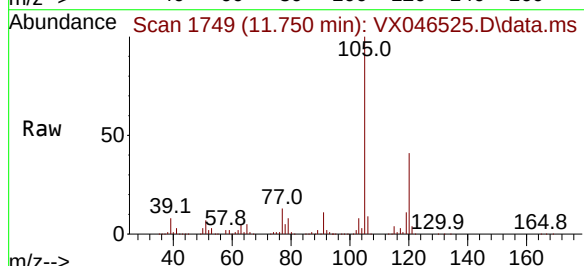
Tgt Ion:119 Resp: 226611
Ion Ratio Lower Upper
119 100
91 63.9 32.9 98.7
134 22.8 11.4 34.1

Manual Integrations
APPROVED

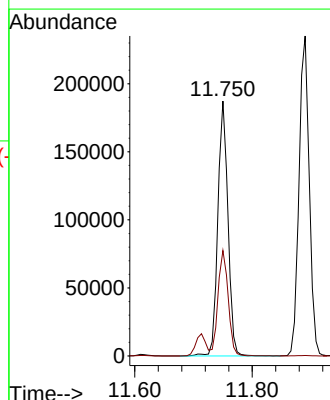
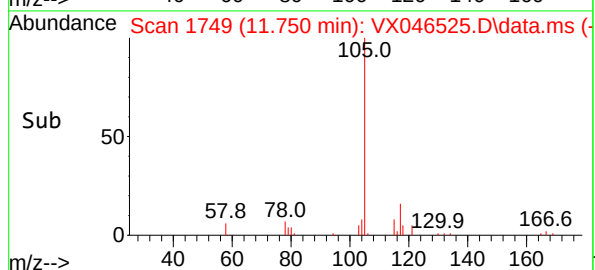
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025

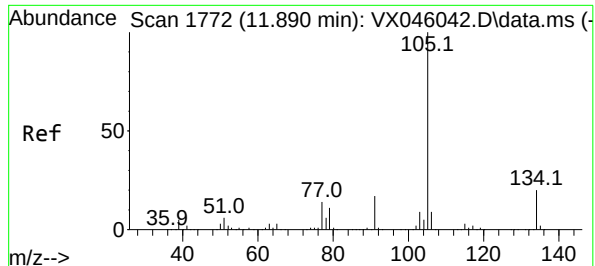


#84
1,2,4-Trimethylbenzene
Concen: 51.464 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11



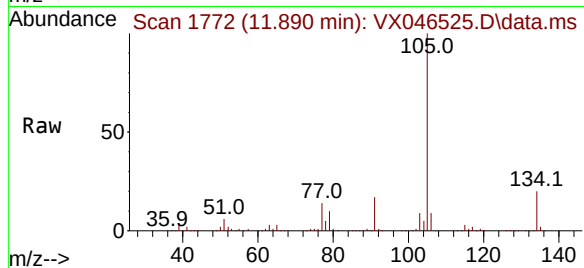
Tgt Ion:105 Resp: 223226
Ion Ratio Lower Upper
105 100
120 41.8 21.2 63.6





#85
sec-Butylbenzene
Concen: 50.644 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

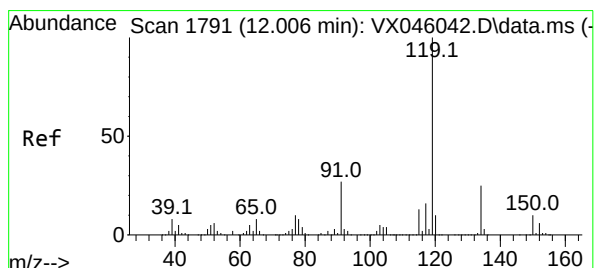
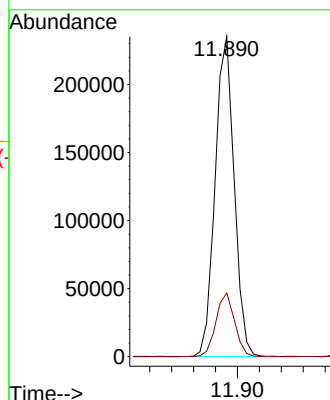
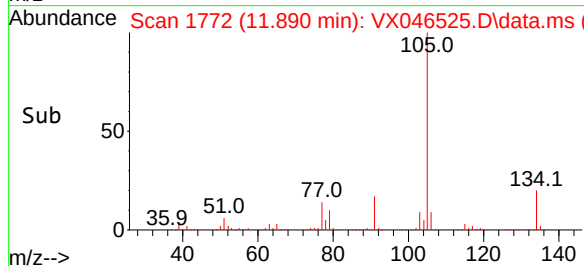
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:105 Resp: 28402
Ion Ratio Lower Upper
105 100
134 19.6 9.7 29.1

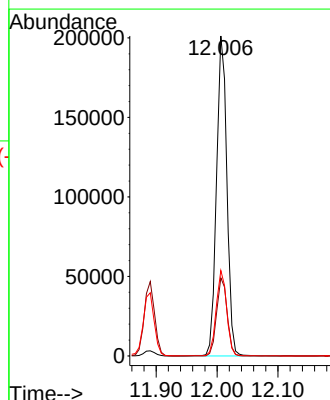
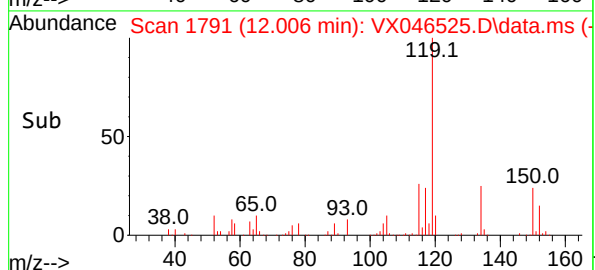
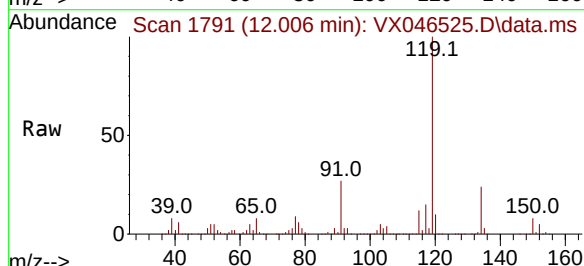
Manual Integrations
APPROVED

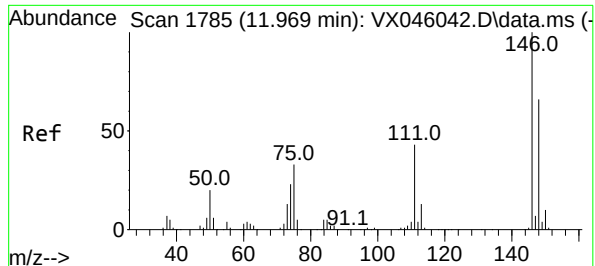
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#86
p-Isopropyltoluene
Concen: 50.815 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

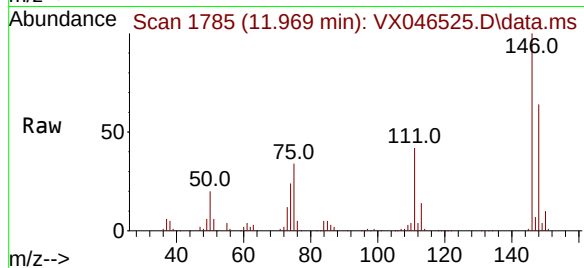
Tgt Ion:119 Resp: 237583
Ion Ratio Lower Upper
119 100
134 24.8 12.5 37.5
91 26.9 13.8 41.4





#87
1,3-Dichlorobenzene
Concen: 49.171 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

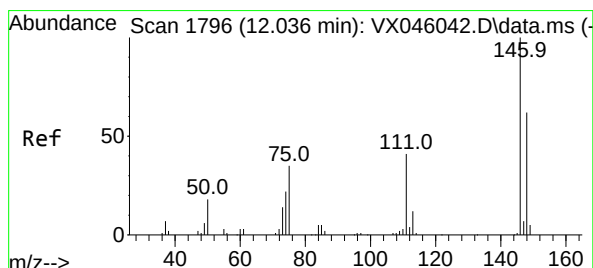
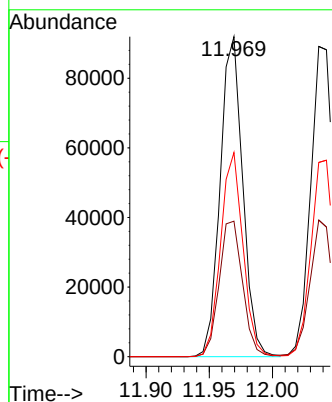
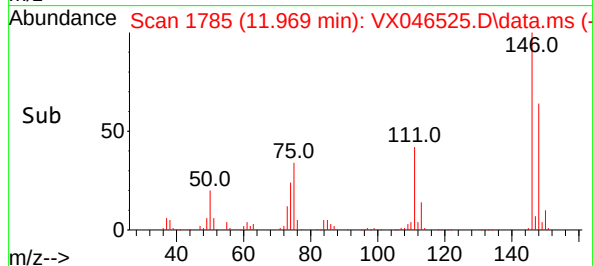
Instrument :
MSVOA_X
ClientSampleId :
ICVX060625



Tgt Ion:146 Resp: 114034
Ion Ratio Lower Upper
146 100
111 44.0 22.1 66.3
148 63.2 32.1 96.5

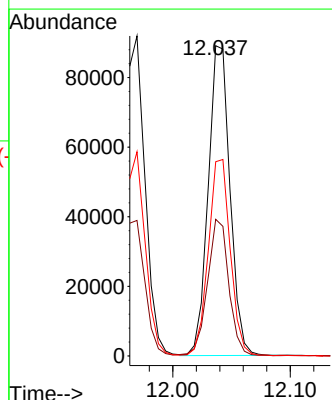
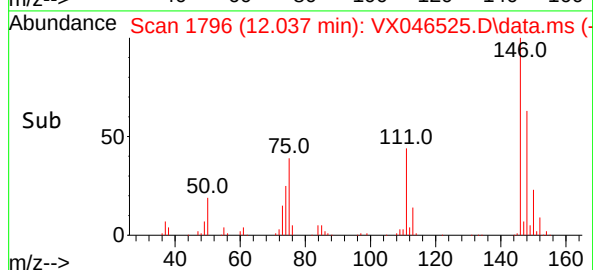
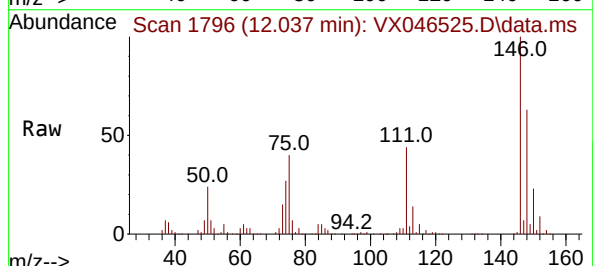
Manual Integrations
APPROVED

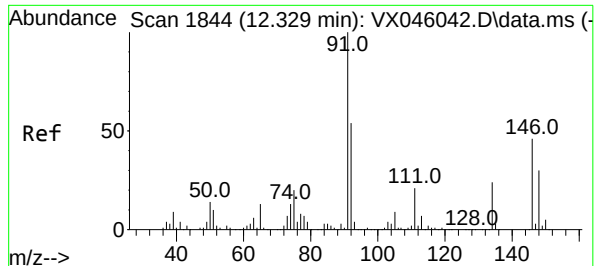
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#88
1,4-Dichlorobenzene
Concen: 47.788 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. -0.005 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion:146 Resp: 114838
Ion Ratio Lower Upper
146 100
111 43.1 21.3 63.9
148 64.3 31.9 95.5





#89

n-Butylbenzene

Concen: 50.601 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion: 91 Resp: 23233

Ion Ratio Lower Upper

91 100

92 53.5 26.9 80.7

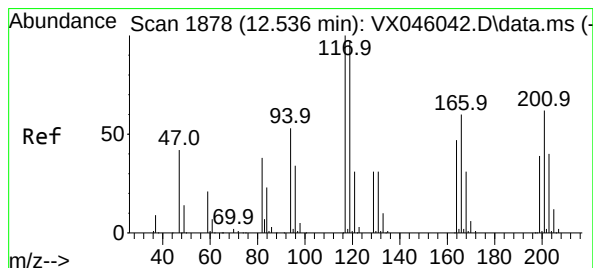
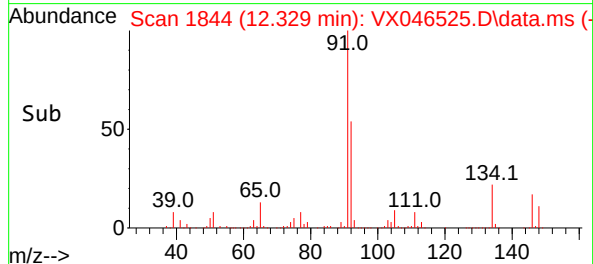
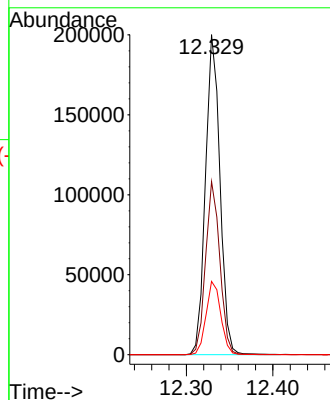
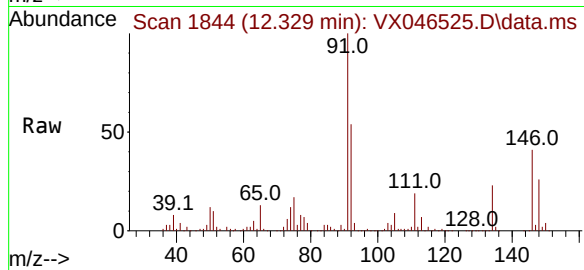
134 23.4 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#90

Hexachloroethane

Concen: 51.141 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046525.D

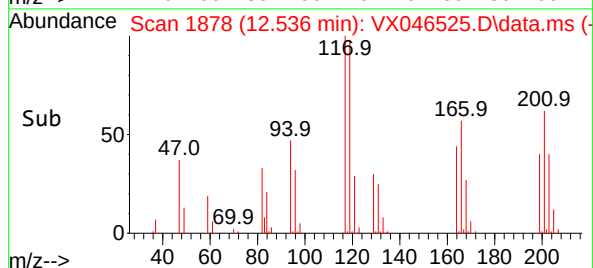
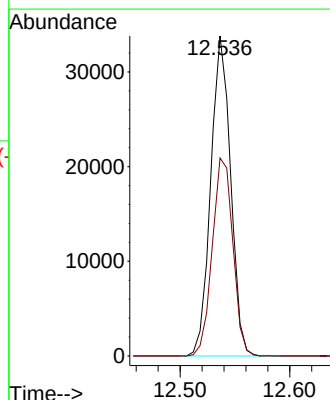
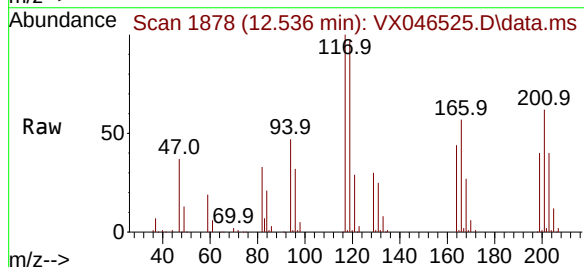
Acq: 06 Jun 2025 14:11

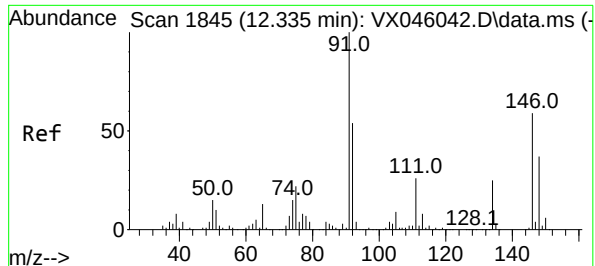
Tgt Ion:117 Resp: 42498

Ion Ratio Lower Upper

117 100

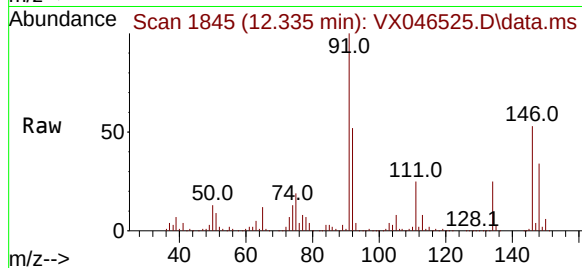
201 64.2 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 49.847 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

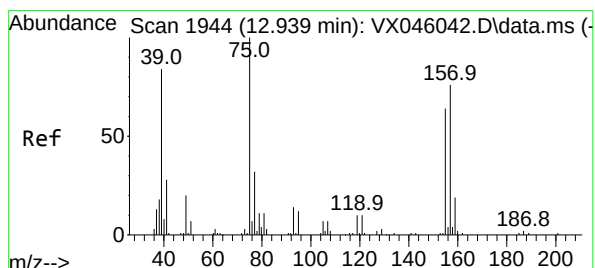
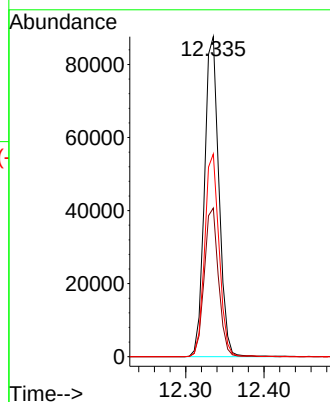
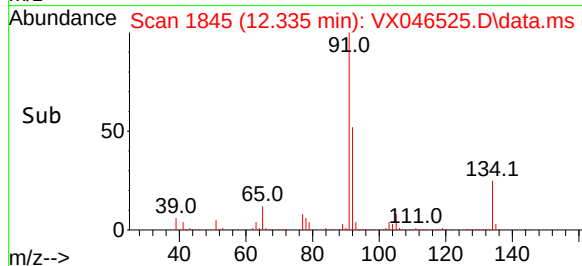
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:146 Resp: 11158
Ion Ratio Lower Upper
146 100
111 46.1 22.4 67.3
148 63.1 31.6 94.8

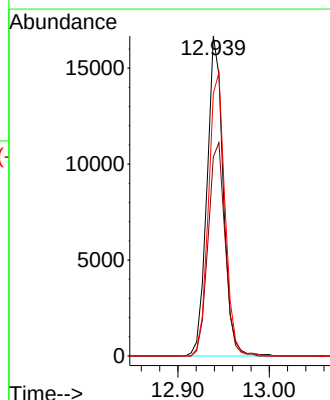
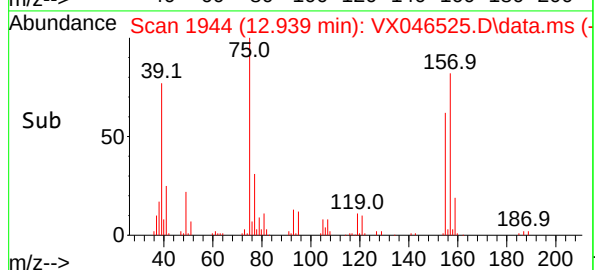
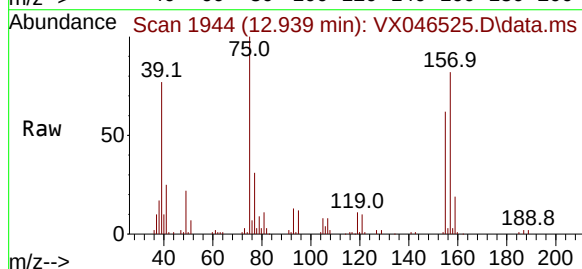
Manual Integrations
APPROVED

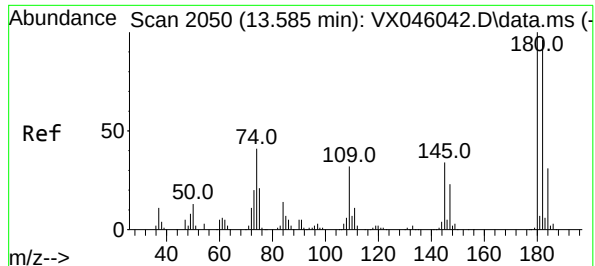
Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 55.886 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion: 75 Resp: 20611
Ion Ratio Lower Upper
75 100
155 69.3 34.9 104.8
157 89.8 43.8 131.4





#93

1,2,4-Trichlorobenzene

Concen: 49.224 ug/l

RT: 13.585 min Scan# 2050

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

Instrument :

MSVOA_X

ClientSampleId :

ICVX060625

Tgt Ion:180 Resp: 75169

Ion Ratio Lower Upper

180 100

182 95.1 47.9 143.8

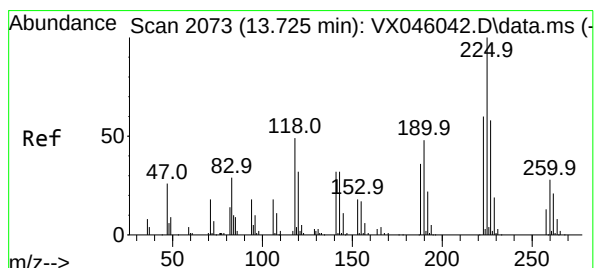
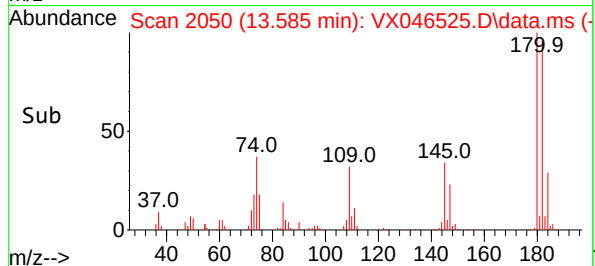
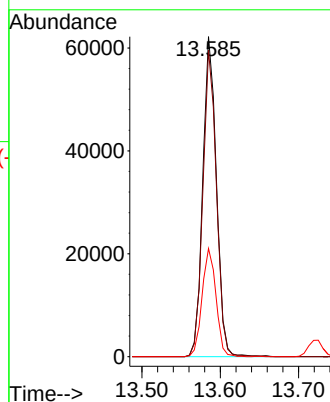
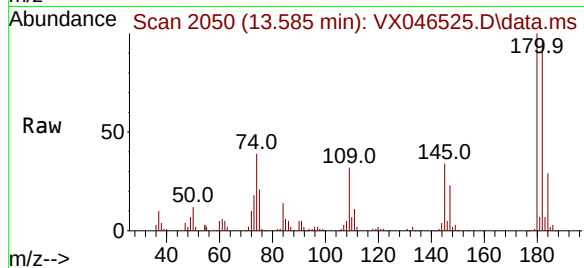
145 34.4 17.1 51.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/06/2025

Supervised By :Mahesh Dadoda 06/09/2025



#94

Hexachlorobutadiene

Concen: 47.222 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

Lab File: VX046525.D

Acq: 06 Jun 2025 14:11

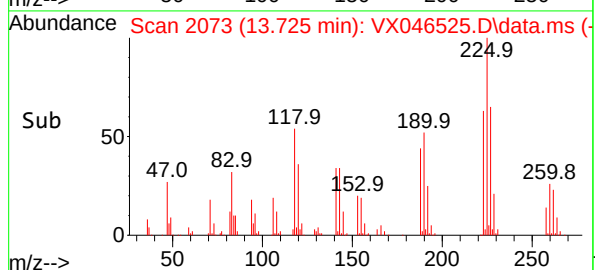
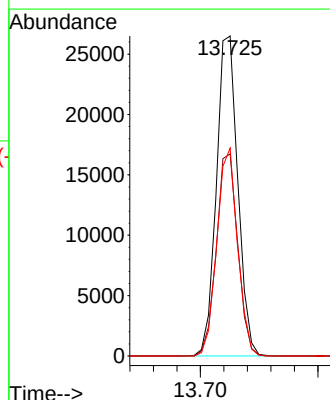
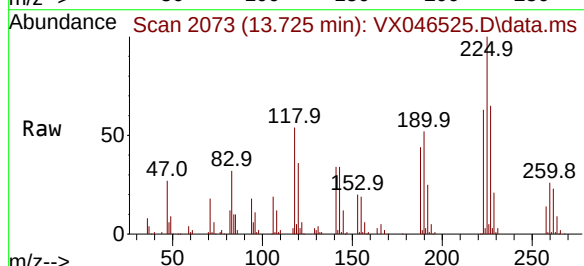
Tgt Ion:225 Resp: 33512

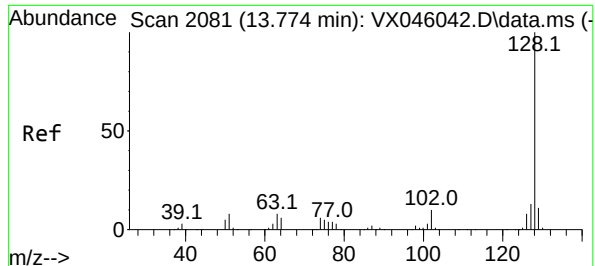
Ion Ratio Lower Upper

225 100

223 63.2 30.8 92.4

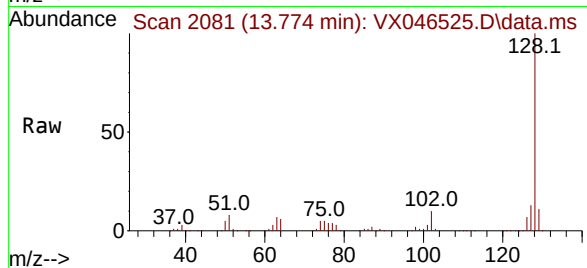
227 62.6 30.9 92.7





#95
Naphthalene
Concen: 53.245 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

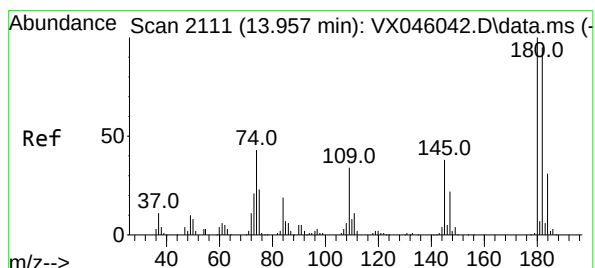
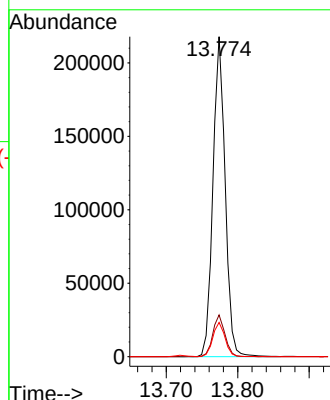
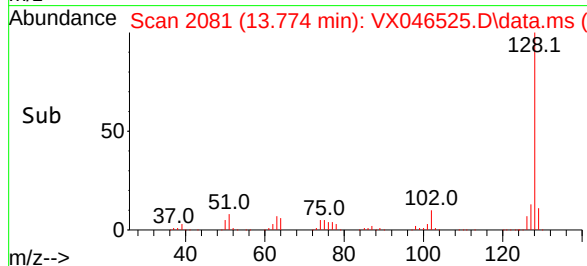
Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625



Tgt Ion:128 Resp: 25784
Ion Ratio Lower Upper
128 100
127 13.0 10.4 15.6
129 10.8 8.6 13.0

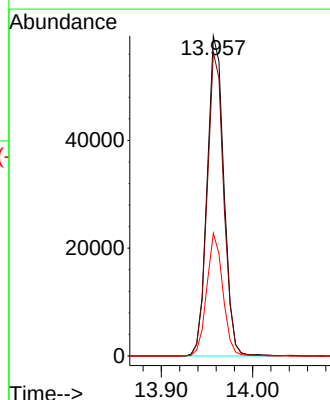
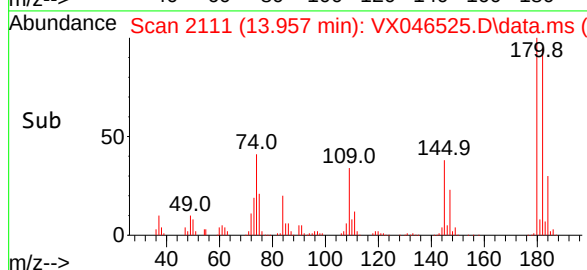
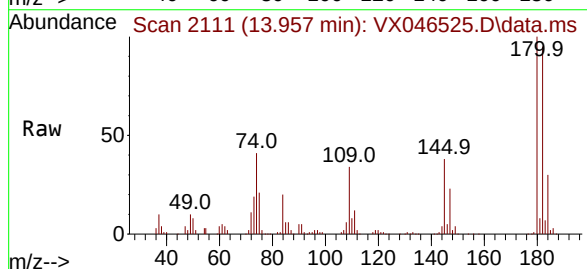
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/06/2025
Supervised By :Mahesh Dadoda 06/09/2025



#96
1,2,3-Trichlorobenzene
Concen: 49.082 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046525.D
Acq: 06 Jun 2025 14:11

Tgt Ion:180 Resp: 75157
Ion Ratio Lower Upper
180 100
182 94.2 47.8 143.3
145 36.9 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX060625

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	97	0.00
2 T	Dichlorodifluoromethane	0.694	0.682	1.7	103	0.00
3 P	Chloromethane	0.632	0.609	3.6	103	0.00
4 C	Vinyl Chloride	0.630	0.624	1.0#	102	0.00
5 T	Bromomethane	0.382	0.389	-1.8	95	0.00
6 T	Chloroethane	0.409	0.384	6.1	100	0.00
7 T	Trichlorofluoromethane	1.042	1.038	0.4	99	0.00
8 T	Diethyl Ether	0.368	0.367	0.3	100	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.657	0.651	0.9	99	0.00
10 T	Methyl Iodide	0.712	0.773	-8.6	105	0.00
11 T	Tert butyl alcohol	0.099	0.108	-9.1	108	0.00
12 CM	1,1-Dichloroethene	0.594	0.583	1.9#	100	0.00
13 T	Acrolein	0.103	0.118	-14.6	102	0.00
14 T	Allyl chloride	1.166	1.202	-3.1	103	0.00
15 T	Acrylonitrile	0.373	0.398	-6.7	102	-0.01
16 T	Acetone	0.381	0.360	5.5	103	0.00
17 T	Carbon Disulfide	1.481	1.262	14.8	101	0.00
18 T	Methyl Acetate	1.060	1.216	-14.7	105	0.00
19 T	Methyl tert-butyl Ether	2.077	2.233	-7.5	103	-0.01
20 T	Methylene Chloride	0.714	0.685	4.1	101	0.00
21 T	trans-1,2-Dichloroethene	0.628	0.601	4.3	100	-0.01
22 T	Diisopropyl ether	2.298	2.429	-5.7	101	-0.01
23 T	Vinyl Acetate	1.775	1.889	-6.4	100	-0.01
24 P	1,1-Dichloroethane	1.281	1.312	-2.4	101	-0.01
25 T	2-Butanone	0.495	0.530	-7.1	102	-0.01
26 T	2,2-Dichloropropane	0.951	1.018	-7.0	102	-0.01
27 T	cis-1,2-Dichloroethene	0.773	0.762	1.4	100	0.00
28 T	Bromochloromethane	0.611	0.604	1.1	100	-0.01
29 T	Tetrahydrofuran	0.313	0.334	-6.7	103	0.00
30 C	Chloroform	1.342	1.369	-2.0#	101	-0.01
31 T	Cyclohexane	1.034	1.015	1.8	99	-0.01
32 T	1,1,1-Trichloroethane	1.148	1.186	-3.3	101	0.00
33 S	1,2-Dichloroethane-d4	0.890	0.894	-0.4	100	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	97	-0.01
35 S	Dibromofluoromethane	0.368	0.375	-1.9	99	-0.01
36 T	1,1-Dichloropropene	0.525	0.501	4.6	100	-0.02
37 T	Ethyl Acetate	0.513	0.597	-16.4	104	-0.01
38 T	Carbon Tetrachloride	0.588	0.581	1.2	100	-0.01
39 T	Methylcyclohexane	0.620	0.590	4.8	100	0.00
40 TM	Benzene	1.479	1.469	0.7	100	-0.01
41 T	Methacrylonitrile	0.318	0.358	-12.6	107	-0.01
42 TM	1,2-Dichloroethane	0.615	0.626	-1.8	99	0.00
43 T	Isopropyl Acetate	0.894	0.970	-8.5	102	-0.01
44 TM	Trichloroethene	0.376	0.359	4.5	99	0.00
45 C	1,2-Dichloropropane	0.382	0.392	-2.6#	100	0.00
46 T	Dibromomethane	0.287	0.292	-1.7	101	0.00
47 T	Bromodichloromethane	0.590	0.625	-5.9	100	0.00
48 T	Methyl methacrylate	0.460	0.504	-9.6	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX060625

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	0.006	0.007	-16.7	102	-0.01
50 S	Toluene-d8	1.212	1.213	-0.1	99	0.00
51 T	4-Methyl-2-Pentanone	0.568	0.617	-8.6	101	0.00
52 CM	Toluene	0.908	0.903	0.6#	99	0.00
53 T	t-1,3-Dichloropropene	0.529	0.567	-7.2	101	0.00
54 T	cis-1,3-Dichloropropene	0.589	0.611	-3.7	100	0.00
55 T	1,1,2-Trichloroethane	0.365	0.379	-3.8	100	0.00
56 T	Ethyl methacrylate	0.561	0.611	-8.9	101	0.00
57 T	1,3-Dichloropropane	0.644	0.654	-1.6	99	0.00
58 T	2-Chloroethyl Vinyl ether	0.306	0.319	-4.2	98	0.00
59 T	2-Hexanone	0.407	0.447	-9.8	101	0.00
60 T	Dibromochloromethane	0.429	0.456	-6.3	102	0.00
61 T	1,2-Dibromoethane	0.380	0.378	0.5	99	0.00
62 S	4-Bromofluorobenzene	0.502	0.500	0.4	98	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
64 T	Tetrachloroethene	0.334	0.319	4.5	100	0.00
65 PM	Chlorobenzene	1.176	1.165	0.9	100	0.00
66 T	1,1,1,2-Tetrachloroethane	0.397	0.419	-5.5	101	0.00
67 C	Ethyl Benzene	2.053	2.065	-0.6#	99	0.00
68 T	m/p-Xylenes	0.745	0.752	-0.9	99	0.00
69 T	o-Xylene	0.720	0.733	-1.8	99	0.00
70 T	Styrene	1.233	1.280	-3.8	99	0.00
71 P	Bromoform	0.303	0.322	-6.3	100	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	95	0.00
73 T	Isopropylbenzene	3.930	4.069	-3.5	99	0.00
74 T	N-amyl acetate	1.731	1.920	-10.9	101	0.00
75 P	1,1,2,2-Tetrachloroethane	1.258	1.319	-4.8	100	0.00
76 T	1,2,3-Trichloropropane	1.059	1.128	-6.5	102	0.00
77 T	Bromobenzene	0.912	0.926	-1.5	100	0.00
78 T	n-propylbenzene	4.757	4.839	-1.7	98	0.00
79 T	2-Chlorotoluene	2.869	2.927	-2.0	100	0.00
80 T	1,3,5-Trimethylbenzene	3.275	3.381	-3.2	99	0.00
81 T	trans-1,4-Dichloro-2-butene	0.367	0.405	-10.4	104	0.00
82 T	4-Chlorotoluene	3.400	3.425	-0.7	99	0.00
83 T	tert-Butylbenzene	3.334	3.462	-3.8	100	0.00
84 T	1,2,4-Trimethylbenzene	3.313	3.410	-2.9	100	0.00
85 T	sec-Butylbenzene	4.284	4.339	-1.3	99	0.00
86 T	p-Isopropyltoluene	3.572	3.630	-1.6	99	0.00
87 T	1,3-Dichlorobenzene	1.772	1.742	1.7	98	0.00
88 T	1,4-Dichlorobenzene	1.836	1.754	4.5	100	0.00
89 T	n-Butylbenzene	3.507	3.550	-1.2	101	0.00
90 T	Hexachloroethane	0.635	0.649	-2.2	101	0.00
91 T	1,2-Dichlorobenzene	1.710	1.705	0.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.282	0.315	-11.7	105	0.00
93 T	1,2,4-Trichlorobenzene	1.167	1.148	1.6	101	0.00
94 T	Hexachlorobutadiene	0.542	0.512	5.5	97	0.00
95 T	Naphthalene	3.699	3.939	-6.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1.170	1.148	1.9	100	0.00

(#) = Out of Range

SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX060625

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	97	0.00
2 T	Dichlorodifluoromethane	50.000	49.116	1.8	103	0.00
3 P	Chloromethane	50.000	48.162	3.7	103	0.00
4 C	Vinyl Chloride	50.000	49.502	1.0#	102	0.00
5 T	Bromomethane	50.000	50.900	-1.8	95	0.00
6 T	Chloroethane	50.000	46.955	6.1	100	0.00
7 T	Trichlorofluoromethane	50.000	49.788	0.4	99	0.00
8 T	Diethyl Ether	50.000	49.819	0.4	100	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	49.561	0.9	99	0.00
10 T	Methyl Iodide	50.000	54.338	-8.7	105	0.00
11 T	Tert butyl alcohol	250.000	273.823	-9.5	108	0.00
12 CM	1,1-Dichloroethene	50.000	49.119	1.8#	100	0.00
13 T	Acrolein	250.000	247.857	0.9	102	0.00
14 T	Allyl chloride	50.000	51.566	-3.1	103	0.00
15 T	Acrylonitrile	250.000	266.347	-6.5	102	-0.01
16 T	Acetone	250.000	257.624	-3.0	103	0.00
17 T	Carbon Disulfide	50.000	50.069	-0.1	101	0.00
18 T	Methyl Acetate	50.000	57.396	-14.8	105	0.00
19 T	Methyl tert-butyl Ether	50.000	53.754	-7.5	103	-0.01
20 T	Methylene Chloride	50.000	48.013	4.0	101	0.00
21 T	trans-1,2-Dichloroethene	50.000	47.832	4.3	100	-0.01
22 T	Diisopropyl ether	50.000	52.834	-5.7	101	-0.01
23 T	Vinyl Acetate	250.000	266.053	-6.4	100	-0.01
24 P	1,1-Dichloroethane	50.000	51.227	-2.5	101	-0.01
25 T	2-Butanone	250.000	267.525	-7.0	102	-0.01
26 T	2,2-Dichloropropane	50.000	53.502	-7.0	102	-0.01
27 T	cis-1,2-Dichloroethene	50.000	49.265	1.5	100	0.00
28 T	Bromochloromethane	50.000	49.390	1.2	100	-0.01
29 T	Tetrahydrofuran	250.000	266.904	-6.8	103	0.00
30 C	Chloroform	50.000	51.004	-2.0#	101	-0.01
31 T	Cyclohexane	50.000	49.093	1.8	99	-0.01
32 T	1,1,1-Trichloroethane	50.000	51.651	-3.3	101	0.00
33 S	1,2-Dichloroethane-d4	50.000	50.250	-0.5	100	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	97	-0.01
35 S	Dibromofluoromethane	50.000	51.039	-2.1	99	-0.01
36 T	1,1-Dichloropropene	50.000	47.703	4.6	100	-0.02
37 T	Ethyl Acetate	50.000	58.203	-16.4	104	-0.01
38 T	Carbon Tetrachloride	50.000	49.372	1.3	100	-0.01
39 T	Methylcyclohexane	50.000	47.608	4.8	100	0.00
40 TM	Benzene	50.000	49.672	0.7	100	-0.01
41 T	Methacrylonitrile	50.000	56.282	-12.6	107	-0.01
42 TM	1,2-Dichloroethane	50.000	50.897	-1.8	99	0.00
43 T	Isopropyl Acetate	50.000	54.290	-8.6	102	-0.01
44 TM	Trichloroethene	50.000	47.764	4.5	99	0.00
45 C	1,2-Dichloropropane	50.000	51.417	-2.8#	100	0.00
46 T	Dibromomethane	50.000	50.807	-1.6	101	0.00
47 T	Bromodichloromethane	50.000	52.906	-5.8	100	0.00
48 T	Methyl methacrylate	50.000	54.806	-9.6	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
 Data File : VX046525.D
 Acq On : 06 Jun 2025 14:11
 Operator : JC/MD
 Sample : VSTDICV050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICSVVX060625

Quant Time: Jun 06 16:57:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	1082.971	-8.3	102	-0.01
50 S	Toluene-d8	50.000	50.025	-0.0	99	0.00
51 T	4-Methyl-2-Pentanone	250.000	271.760	-8.7	101	0.00
52 CM	Toluene	50.000	49.719	0.6#	99	0.00
53 T	t-1,3-Dichloropropene	50.000	53.526	-7.1	101	0.00
54 T	cis-1,3-Dichloropropene	50.000	51.896	-3.8	100	0.00
55 T	1,1,2-Trichloroethane	50.000	51.993	-4.0	100	0.00
56 T	Ethyl methacrylate	50.000	54.440	-8.9	101	0.00
57 T	1,3-Dichloropropane	50.000	50.718	-1.4	99	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.553	-4.2	98	0.00
59 T	2-Hexanone	250.000	274.165	-9.7	101	0.00
60 T	Dibromochloromethane	50.000	53.100	-6.2	102	0.00
61 T	1,2-Dibromoethane	50.000	49.689	0.6	99	0.00
62 S	4-Bromofluorobenzene	50.000	49.880	0.2	98	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	97	0.00
64 T	Tetrachloroethene	50.000	47.739	4.5	100	0.00
65 PM	Chlorobenzene	50.000	49.518	1.0	100	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	52.723	-5.4	101	0.00
67 C	Ethyl Benzene	50.000	50.288	-0.6#	99	0.00
68 T	m/p-Xylenes	100.000	100.941	-0.9	99	0.00
69 T	o-Xylene	50.000	50.882	-1.8	99	0.00
70 T	Styrene	50.000	51.899	-3.8	99	0.00
71 P	Bromoform	50.000	53.200	-6.4	100	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	95	0.00
73 T	Isopropylbenzene	50.000	51.765	-3.5	99	0.00
74 T	N-ethyl acetate	50.000	55.456	-10.9	101	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.405	-4.8	100	0.00
76 T	1,2,3-Trichloropropane	50.000	53.262	-6.5	102	0.00
77 T	Bromobenzene	50.000	50.748	-1.5	100	0.00
78 T	n-propylbenzene	50.000	50.860	-1.7	98	0.00
79 T	2-Chlorotoluene	50.000	51.014	-2.0	100	0.00
80 T	1,3,5-Trimethylbenzene	50.000	51.612	-3.2	99	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	55.208	-10.4	104	0.00
82 T	4-Chlorotoluene	50.000	50.368	-0.7	99	0.00
83 T	tert-Butylbenzene	50.000	51.919	-3.8	100	0.00
84 T	1,2,4-Trimethylbenzene	50.000	51.464	-2.9	100	0.00
85 T	sec-Butylbenzene	50.000	50.644	-1.3	99	0.00
86 T	p-Isopropyltoluene	50.000	50.815	-1.6	99	0.00
87 T	1,3-Dichlorobenzene	50.000	49.171	1.7	98	0.00
88 T	1,4-Dichlorobenzene	50.000	47.788	4.4	100	0.00
89 T	n-Butylbenzene	50.000	50.601	-1.2	101	0.00
90 T	Hexachloroethane	50.000	51.141	-2.3	101	0.00
91 T	1,2-Dichlorobenzene	50.000	49.847	0.3	99	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	55.886	-11.8	105	0.00
93 T	1,2,4-Trichlorobenzene	50.000	49.224	1.6	101	0.00
94 T	Hexachlorobutadiene	50.000	47.222	5.6	97	0.00
95 T	Naphthalene	50.000	53.245	-6.5	101	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046525.D
Acq On : 06 Jun 2025 14:11
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
ICVVX060625

Quant Time: Jun 06 16:57:15 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	49.082	1.8	100	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: JAC005

Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG No.: Q2249

Instrument ID: MSVOA_X Calibration Date/Time: 06/11/2025 14:46

Lab File ID: VX046636.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:42 12:57

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.630	0.569		-9.68	20
1,1-Dichloroethene	0.594	0.596		0.34	20
1,1-Dichloroethane	1.281	1.325	0.1	3.43	20
cis-1,2-Dichloroethene	0.773	0.799		3.36	20
1,1,1-Trichloroethane	1.148	1.186		3.31	20
Benzene	1.479	1.534		3.72	20
1,2-Dichloroethane	0.615	0.621		0.98	20
Trichloroethene	0.376	0.379		0.8	20
1,1,2-Trichloroethane	0.365	0.403		10.41	20
Tetrachloroethene	0.334	0.330		-1.2	20
1,2-Dichloroethane-d4	0.890	0.830		-6.74	20
Dibromofluoromethane	0.368	0.382		3.8	20
Toluene-d8	1.212	1.219		0.58	20
4-Bromofluorobenzene	0.502	0.503		0.2	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\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	77468	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	133266	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	119186	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60295	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	64299	46.653	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery = 93.300%			
35) Dibromofluoromethane	5.391	113	50878	51.915	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.820%			
50) Toluene-d8	8.646	98	162512	50.297	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 100.600%			
62) 4-Bromofluorobenzene	11.079	95	67056	50.160	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 100.320%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.178	85	49618	46.135	ug/l	97
3) Chloromethane	1.306	50	42847	43.769	ug/l	100
4) Vinyl Chloride	1.386	62	44081	45.171	ug/l	99
5) Bromomethane	1.617	94	16571	27.971	ug/l	96
6) Chloroethane	1.697	64	25610m	40.448	ug/l	
7) Trichlorofluoromethane	1.904	101	68961	42.711	ug/l	98
8) Diethyl Ether	2.142	74	25706	45.060	ug/l	90
9) 1,1,2-Trichlorotrifluo...	2.343	101	51679	50.803	ug/l	95
10) Methyl Iodide	2.465	142	44208	40.090	ug/l	97
11) Tert butyl alcohol	2.965	59	33784	220.908	ug/l	99
12) 1,1-Dichloroethene	2.331	96	46167	50.196	ug/l	94
13) Acrolein	2.245	56	60539	318.023	ug/l	100
14) Allyl chloride	2.678	41	91197	50.488	ug/l	93
15) Acrylonitrile	3.068	53	150410	260.120	ug/l	99
16) Acetone	2.385	43	129583	239.623	ug/l	96
17) Carbon Disulfide	2.526	76	94127	48.207	ug/l	100
18) Methyl Acetate	2.715	43	90756	55.283	ug/l	98
19) Methyl tert-butyl Ether	3.123	73	173499	53.911	ug/l	98
20) Methylene Chloride	2.800	84	55439	50.139	ug/l	93
21) trans-1,2-Dichloroethene	3.105	96	48350	49.675	ug/l	94
22) Diisopropyl ether	3.769	45	191676	53.823	ug/l #	80
23) Vinyl Acetate	3.727	43	730658	265.747	ug/l	100
24) 1,1-Dichloroethane	3.617	63	102645	51.716	ug/l	99
25) 2-Butanone	4.562	43	188260	245.374	ug/l	97
26) 2,2-Dichloropropane	4.489	77	76522	51.935	ug/l	98
27) cis-1,2-Dichloroethene	4.495	96	61869	51.635	ug/l	96
28) Bromochloromethane	4.903	49	44054	46.537	ug/l	98
29) Tetrahydrofuran	5.013	42	116765	240.984	ug/l	98
30) Chloroform	5.098	83	111101	53.424	ug/l	96
31) Cyclohexane	5.476	56	79044	49.332	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	91912	51.668	ug/l	97
36) 1,1-Dichloropropene	5.696	75	66719	47.660	ug/l	98
37) Ethyl Acetate	4.714	43	72822	53.299	ug/l	99
38) Carbon Tetrachloride	5.684	117	77120	49.184	ug/l	99
39) Methylcyclohexane	7.385	83	79500	48.113	ug/l	97
40) Benzene	6.043	78	204444	51.876	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	43728	51.538	ug/l	94
42) 1,2-Dichloroethane	6.092	62	82805	50.505	ug/l	97
43) Isopropyl Acetate	6.342	43	123122	51.690	ug/l	98
44) Trichloroethene	7.128	130	50564	50.496	ug/l	98
45) 1,2-Dichloropropane	7.427	63	54805	53.877	ug/l	95
46) Dibromomethane	7.580	93	39795	52.002	ug/l	97
47) Bromodichloromethane	7.823	83	86170	54.764	ug/l	100
48) Methyl methacrylate	7.689	41	64491	52.623	ug/l	95
49) 1,4-Dioxane	7.659	88	15347	936.440	ug/l	98
51) 4-Methyl-2-Pentanone	8.573	43	399573	263.985	ug/l	99
52) Toluene	8.720	92	127673	52.732	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	76825	54.455	ug/l	98
54) cis-1,3-Dichloropropene	8.366	75	83927	53.504	ug/l	89
55) 1,1,2-Trichloroethane	9.152	97	53767	55.318	ug/l	98
56) Ethyl methacrylate	9.116	69	83775	56.009	ug/l	93
57) 1,3-Dichloropropane	9.305	76	90043	52.422	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.238	63	212181	260.437	ug/l	99
59) 2-Hexanone	9.427	43	281354	259.182	ug/l	97
60) Dibromochloromethane	9.518	129	62938	55.050	ug/l	99
61) 1,2-Dibromoethane	9.610	107	52759	52.090	ug/l	97
64) Tetrachloroethene	9.274	164	39385	49.417	ug/l	94
65) Chlorobenzene	10.079	112	145707	51.980	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.158	131	52286	55.199	ug/l	100
67) Ethyl Benzene	10.195	91	253115	51.724	ug/l	98
68) m/p-Xylenes	10.299	106	188777	106.345	ug/l	98
69) o-Xylene	10.640	106	93646	54.541	ug/l	96
70) Styrene	10.652	104	161841	55.064	ug/l	98
71) Bromoform	10.799	173	39565	54.781	ug/l #	97
73) Isopropylbenzene	10.963	105	251010	52.958	ug/l	99
74) N-amyl acetate	10.841	43	110680	53.026	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.207	83	79466	52.379	ug/l	99
76) 1,2,3-Trichloropropane	11.237	75	65783m	51.509	ug/l	
77) Bromobenzene	11.195	156	57859	52.592	ug/l	96
78) n-propylbenzene	11.305	91	297656	51.885	ug/l	99
79) 2-Chlorotoluene	11.359	91	178117	51.487	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	207616	52.565	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	22961	51.862	ug/l	93
82) 4-Chlorotoluene	11.451	91	208757	50.910	ug/l	96
83) tert-Butylbenzene	11.713	119	214284	53.295	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	209586	52.454	ug/l	98
85) sec-Butylbenzene	11.890	105	271607	52.573	ug/l	100
86) p-Isopropyltoluene	12.006	119	224421	52.107	ug/l	99
87) 1,3-Dichlorobenzene	11.969	146	111561	52.221	ug/l	99
88) 1,4-Dichlorobenzene	12.036	146	113744	51.383	ug/l	99
89) n-Butylbenzene	12.329	91	214617	50.742	ug/l	98
90) Hexachloroethane	12.536	117	38889	50.802	ug/l	97
91) 1,2-Dichlorobenzene	12.335	146	108055	52.399	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.938	75	16953	49.901	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	73786	52.453	ug/l	99
94) Hexachlorobutadiene	13.725	225	30729	47.005	ug/l	98
95) Naphthalene	13.774	128	239917	53.781	ug/l	100
96) 1,2,3-Trichlorobenzene	13.957	180	72019	51.057	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

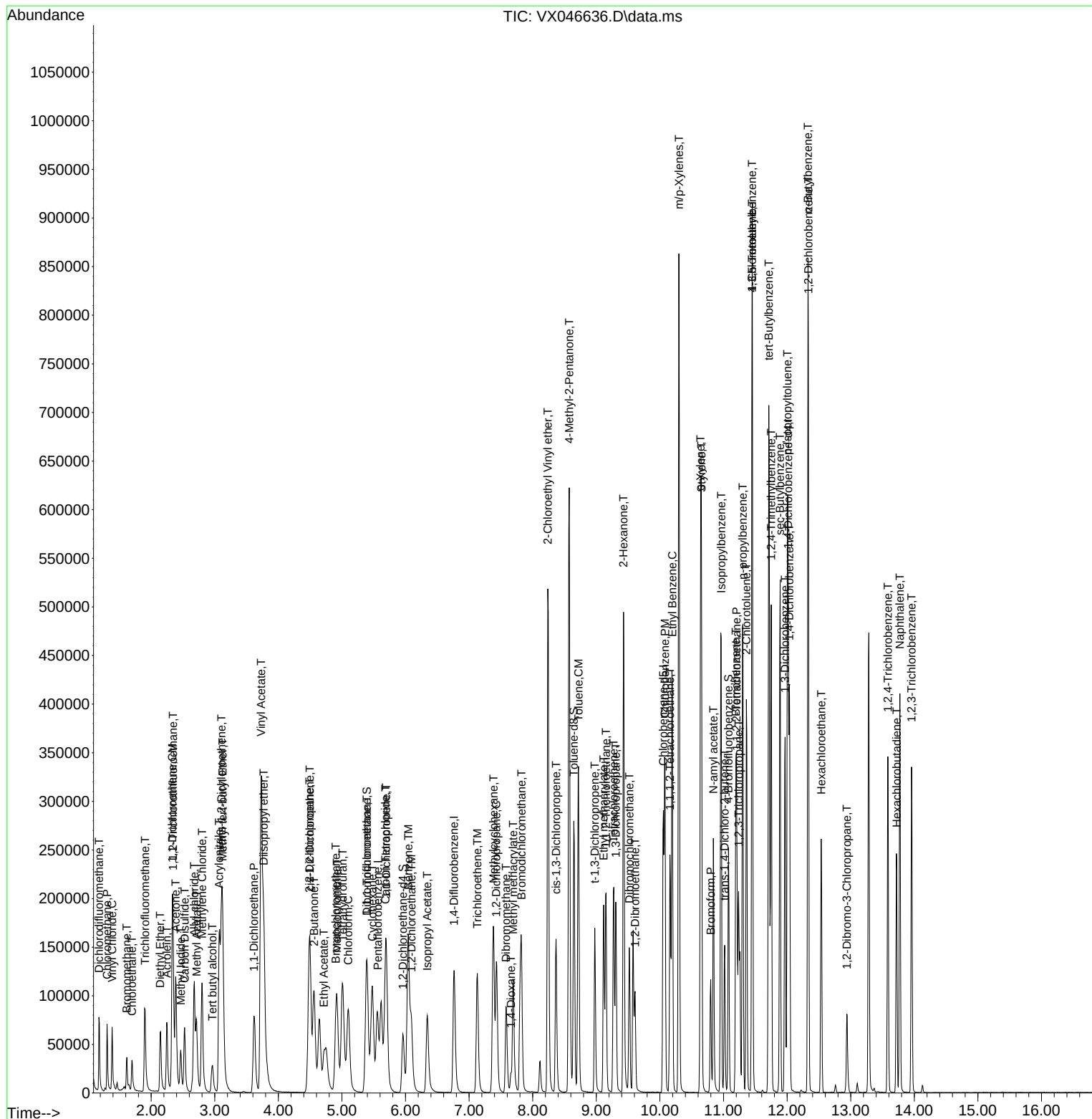
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

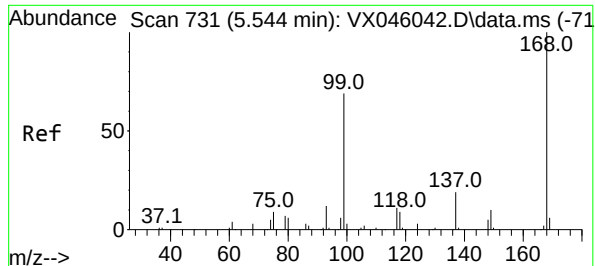
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations APPROVED

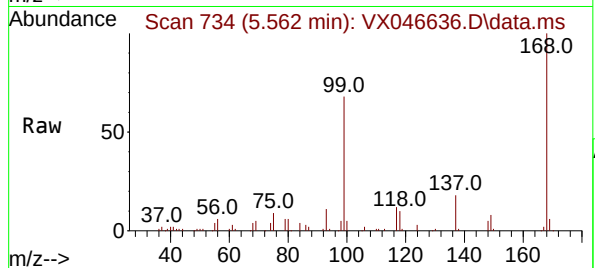
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

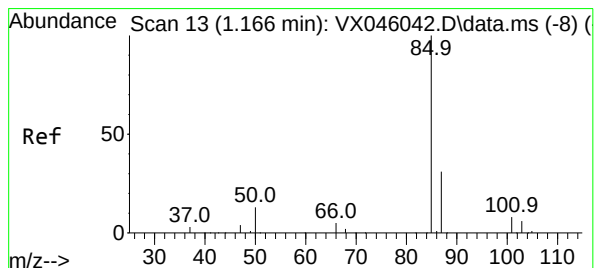
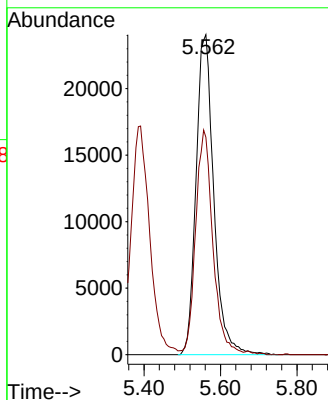
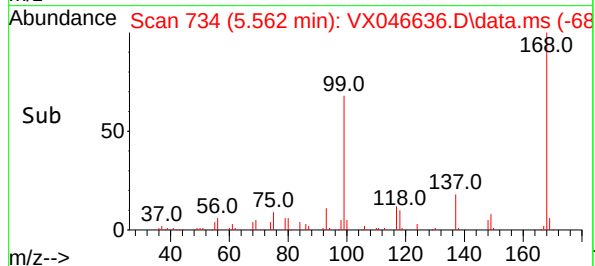
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:168 Resp: 77468
Ion Ratio Lower Upper
168 100
99 67.9 54.9 82.3

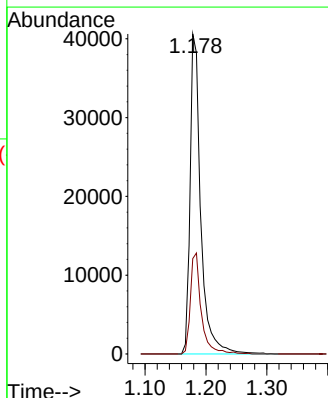
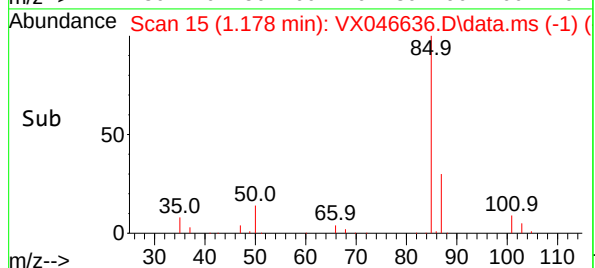
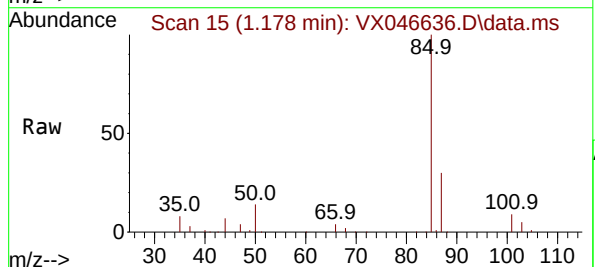
Manual Integrations
APPROVED

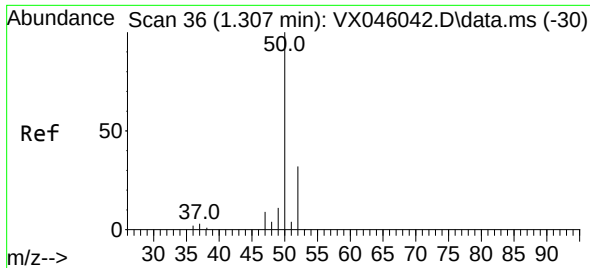
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 46.135 ug/l
RT: 1.178 min Scan# 15
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

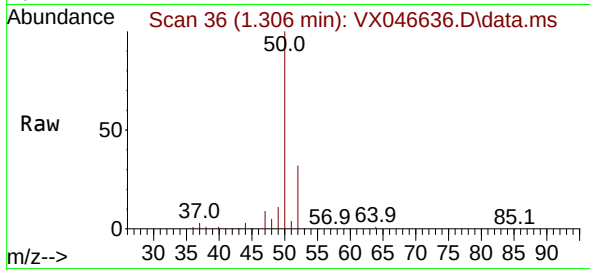
Tgt Ion: 85 Resp: 49618
Ion Ratio Lower Upper
85 100
87 29.8 15.7 47.1





#3
Chloromethane
Concen: 43.769 ug/l
RT: 1.306 min Scan# 30
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

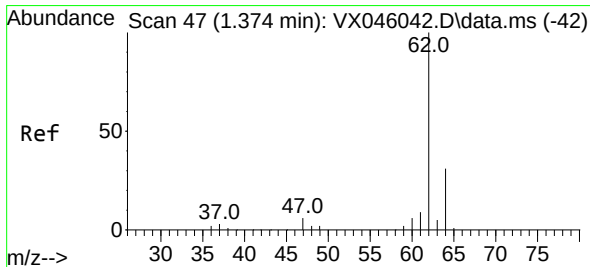
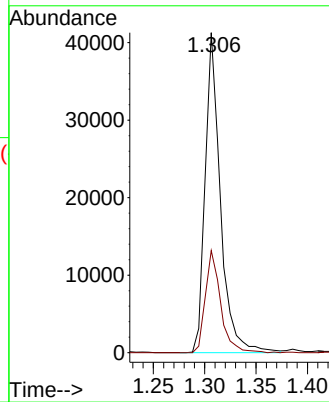
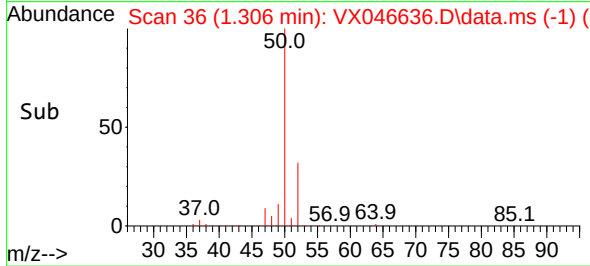
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 50 Resp: 4284
Ion Ratio Lower Upper
50 100
52 31.9 25.4 38.2

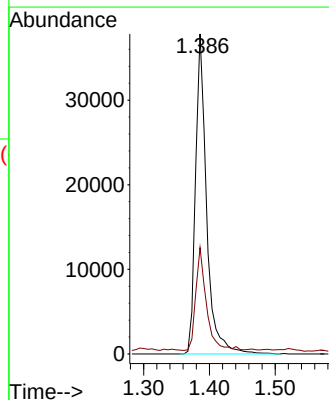
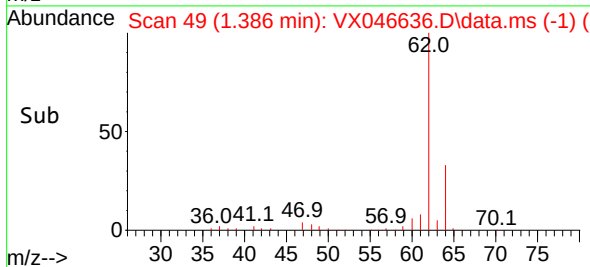
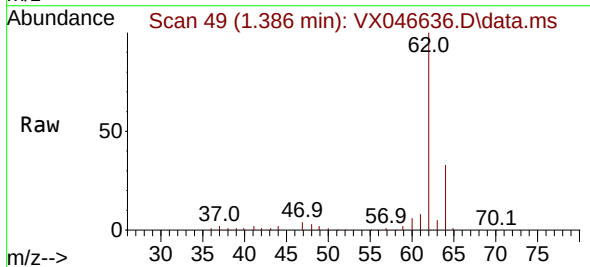
Manual Integrations
APPROVED

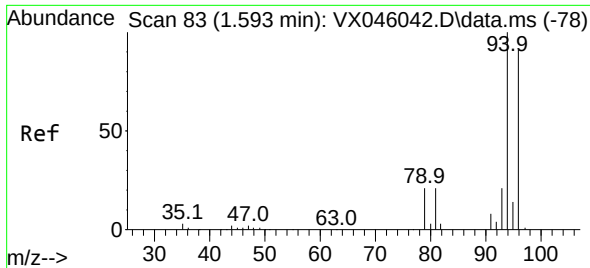
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 45.171 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

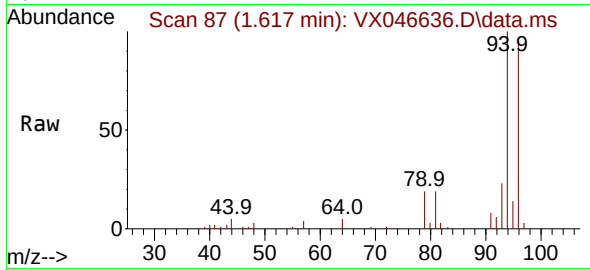
Tgt Ion: 62 Resp: 44081
Ion Ratio Lower Upper
62 100
64 32.0 25.2 37.8





#5
Bromomethane
Concen: 27.971 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

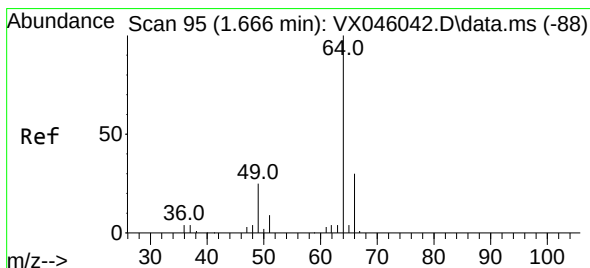
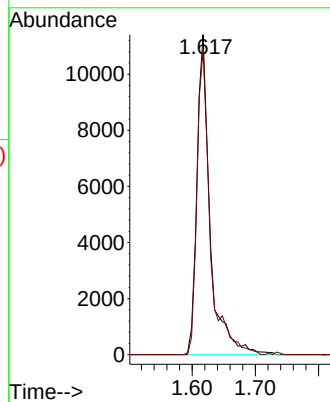
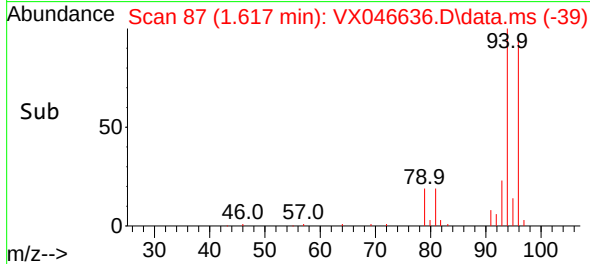
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 1657
Ion Ratio Lower Upper
94 100
96 95.1 72.8 109.2

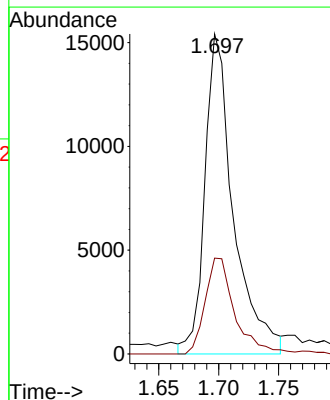
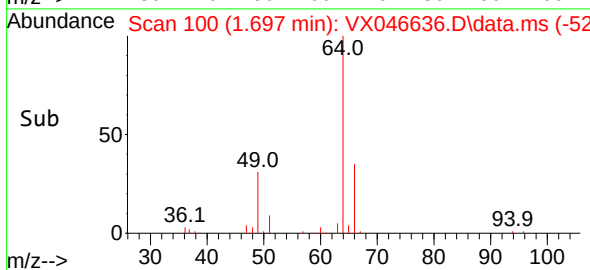
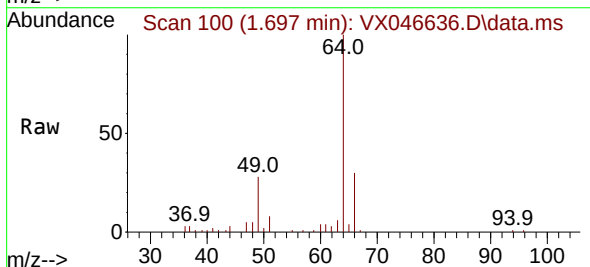
Manual Integrations
APPROVED

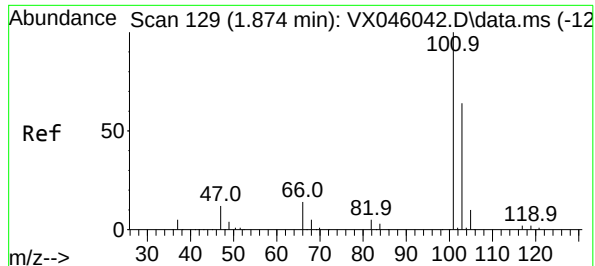
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#6
Chloroethane
Concen: 40.448 ug/l m
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

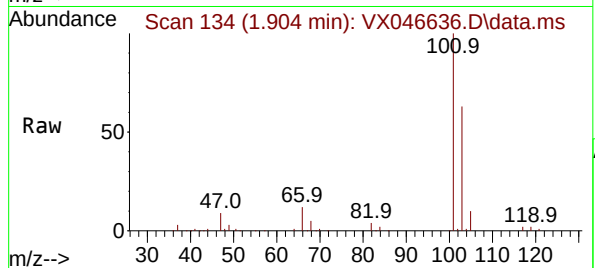
Tgt Ion: 64 Resp: 25610
Ion Ratio Lower Upper
64 100
66 30.0 24.3 36.5





#7
Trichlorofluoromethane
Concen: 42.711 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

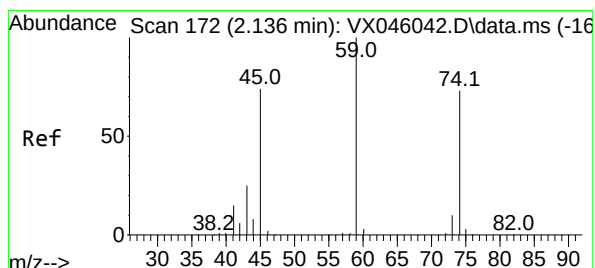
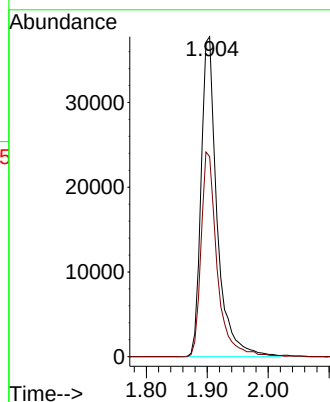
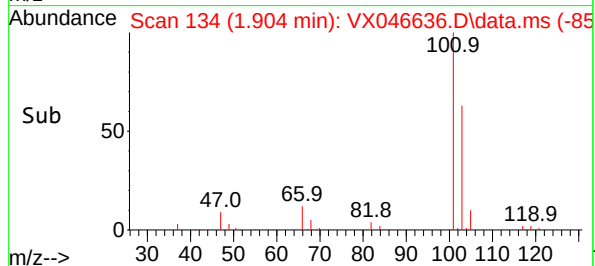
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 6896
Ion Ratio Lower Upper
101 100
103 62.5 51.0 76.4

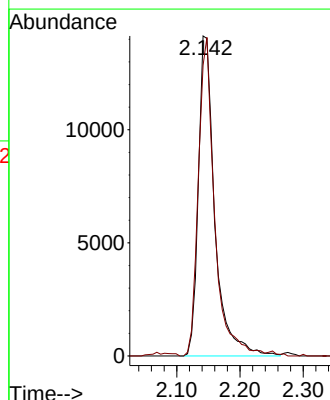
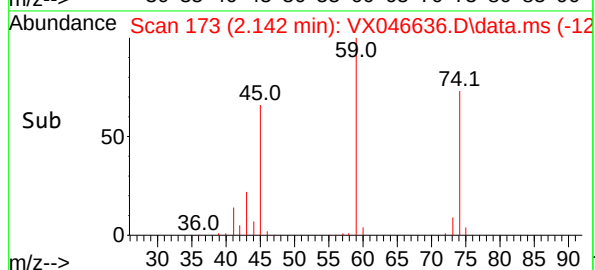
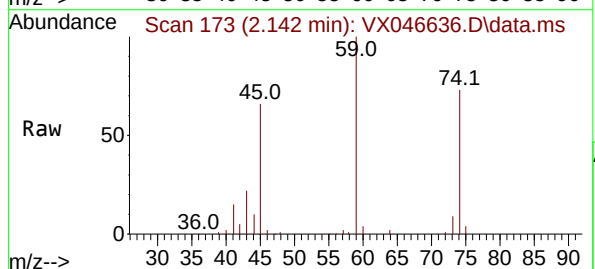
Manual Integrations
APPROVED

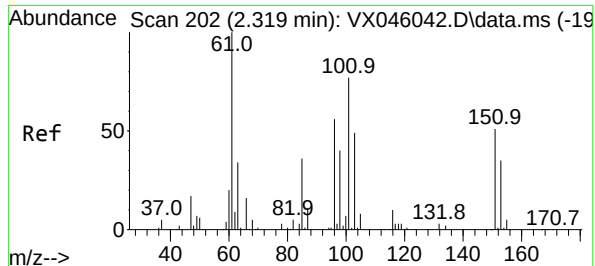
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#8
Diethyl Ether
Concen: 45.060 ug/l
RT: 2.142 min Scan# 173
Delta R.T. -0.012 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 74 Resp: 25706
Ion Ratio Lower Upper
74 100
45 98.8 54.9 164.8





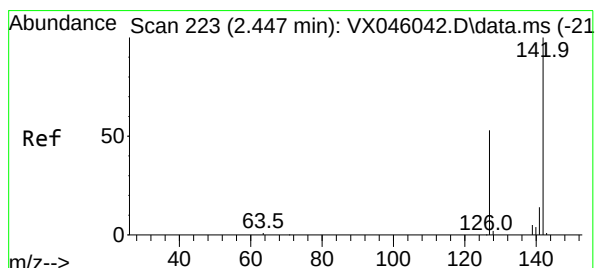
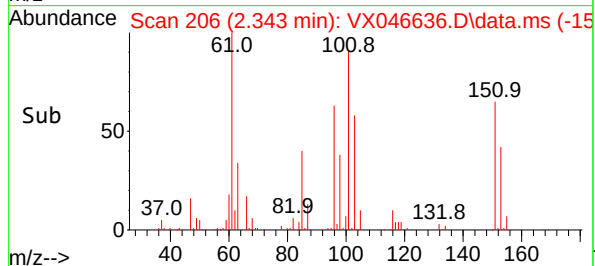
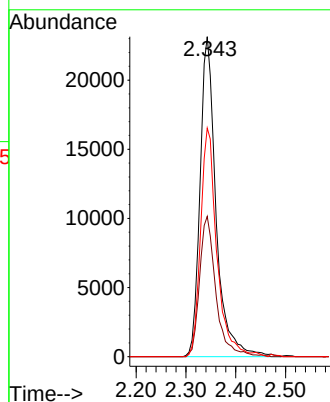
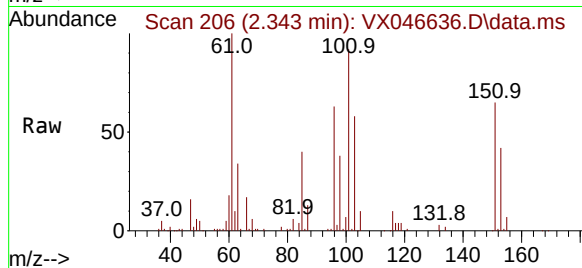
#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.803 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:101 Resp: 51679
Ion Ratio Lower Upper
101 100
85 44.9 38.6 58.0
151 72.8 55.2 82.8

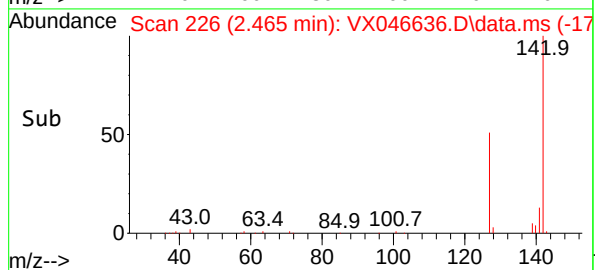
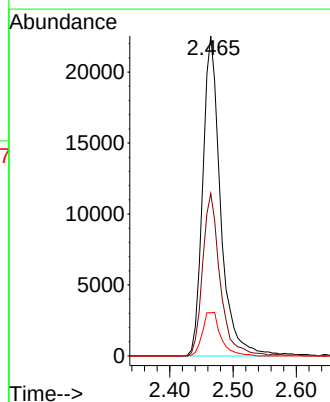
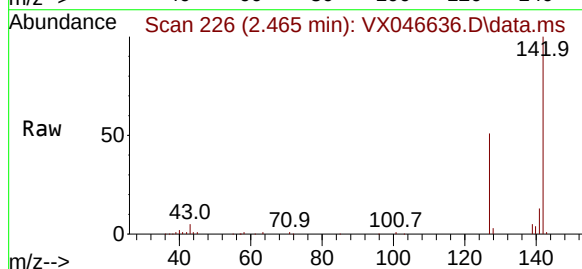
Manual Integrations
APPROVED

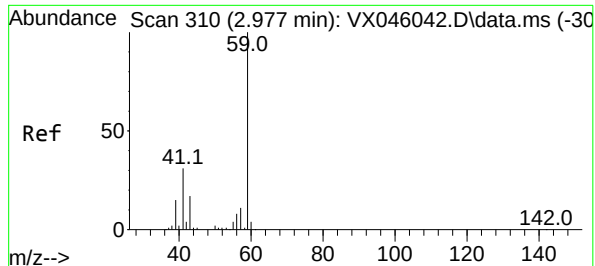
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#10
Methyl Iodide
Concen: 40.090 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:142 Resp: 44208
Ion Ratio Lower Upper
142 100
127 49.8 41.7 62.5
141 14.1 11.5 17.3





#11

Tert butyl alcohol

Concen: 220.908 ug/l

RT: 2.965 min Scan# 308

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 33784

Ion Ratio Lower Upper

59 100

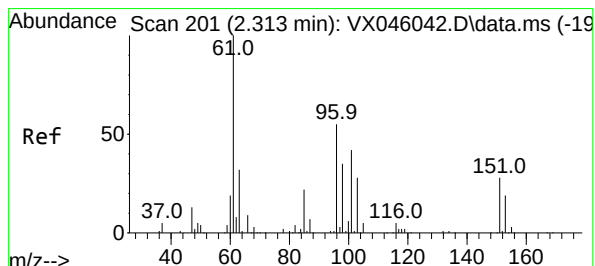
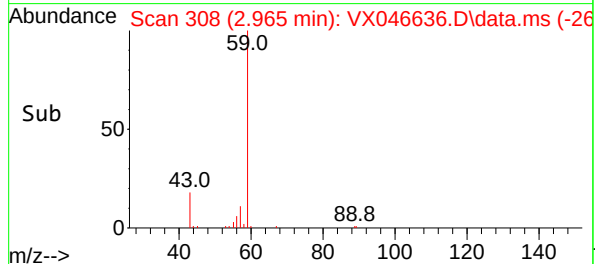
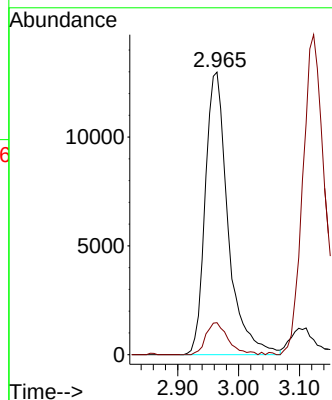
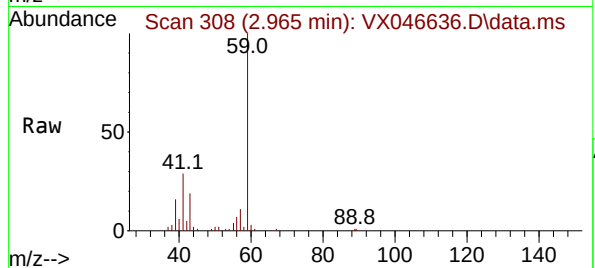
57 11.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 50.196 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

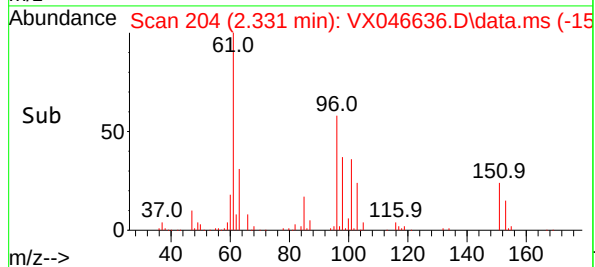
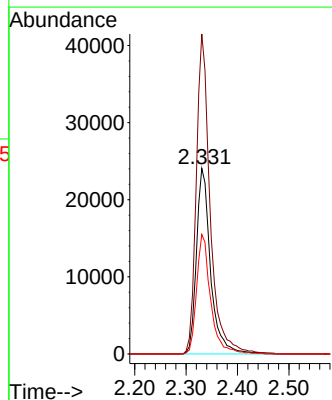
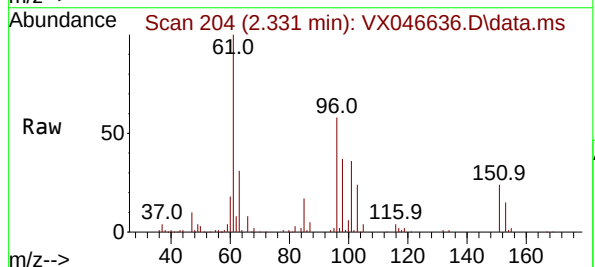
Tgt Ion: 96 Resp: 46167

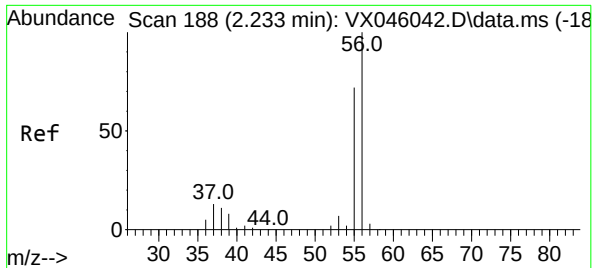
Ion Ratio Lower Upper

96 100

61 172.4 146.2 219.2

98 64.4 51.0 76.6





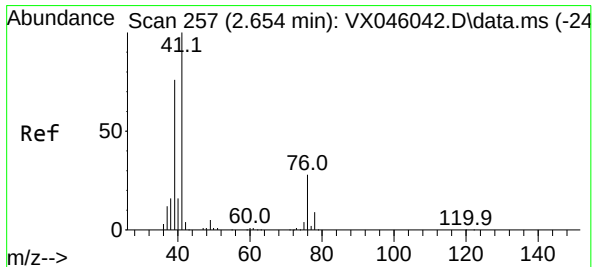
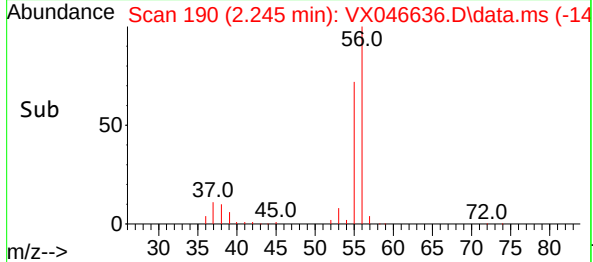
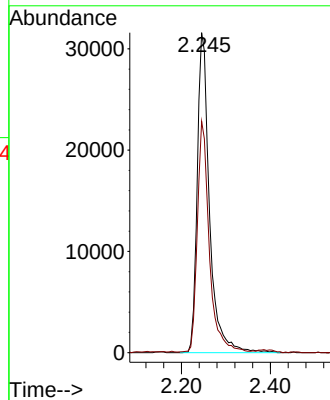
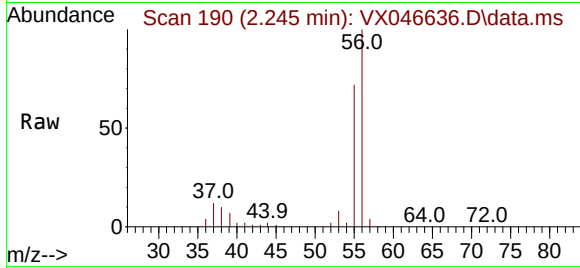
#13
Acrolein
Concen: 318.023 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 60539
Ion Ratio Lower Upper
56 100
55 70.3 56.2 84.4

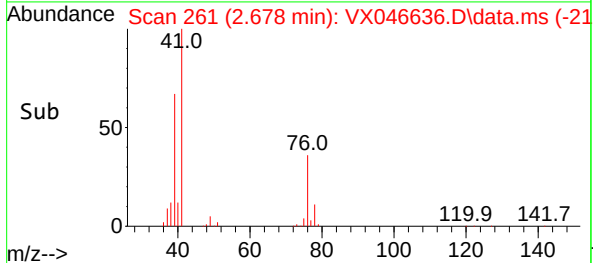
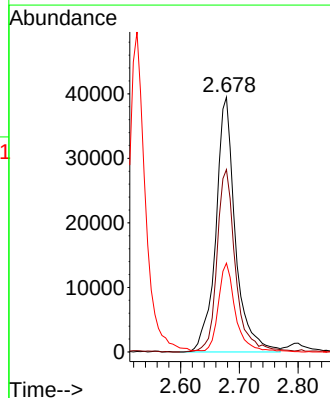
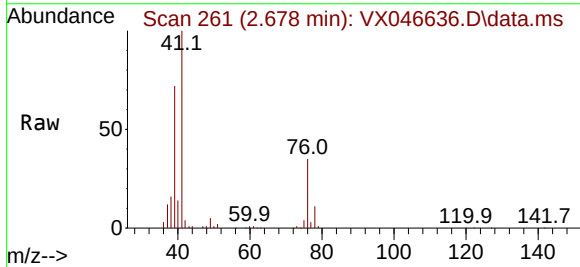
Manual Integrations
APPROVED

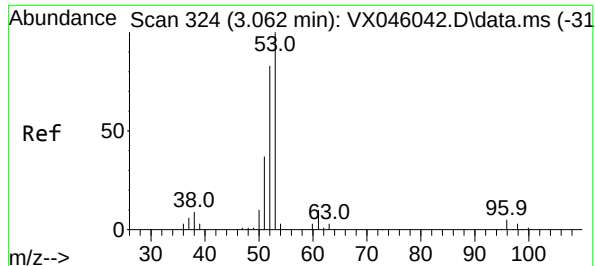
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#14
Allyl chloride
Concen: 50.488 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 41 Resp: 91197
Ion Ratio Lower Upper
41 100
39 67.8 60.6 90.8
76 30.7 24.9 37.3





#15

Acrylonitrile

Concen: 260.120 ug/l

RT: 3.068 min Scan# 31

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 53 Resp: 150410

Ion Ratio Lower Upper

53 100

52 82.5 65.3 97.9

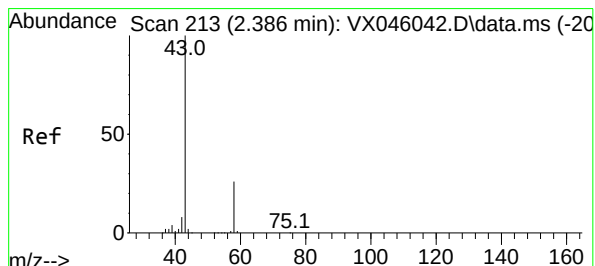
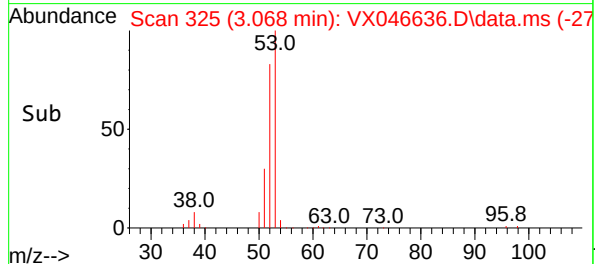
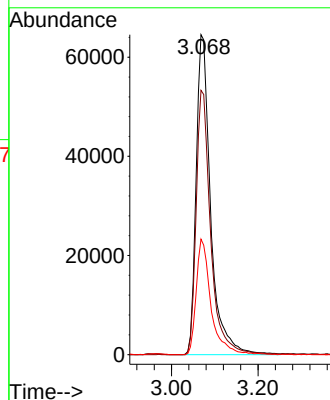
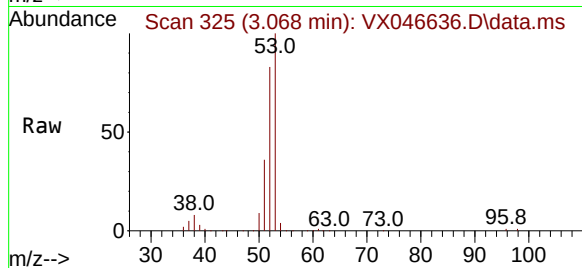
51 36.9 29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 239.623 ug/l

RT: 2.385 min Scan# 213

Delta R.T. -0.007 min

Lab File: VX046636.D

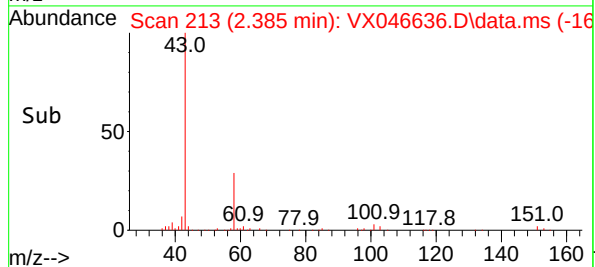
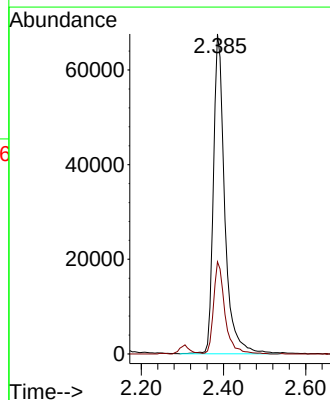
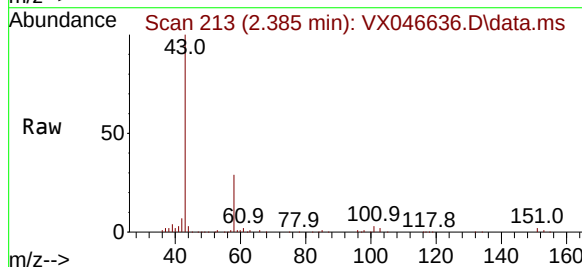
Acq: 11 Jun 2025 14:46

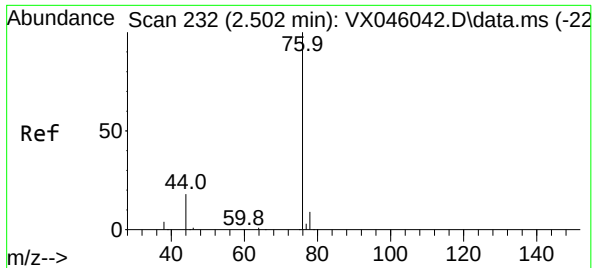
Tgt Ion: 43 Resp: 129583

Ion Ratio Lower Upper

43 100

58 28.7 21.2 31.8





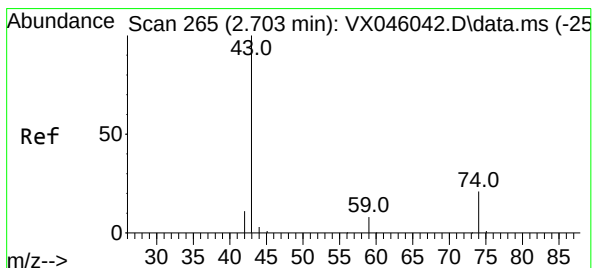
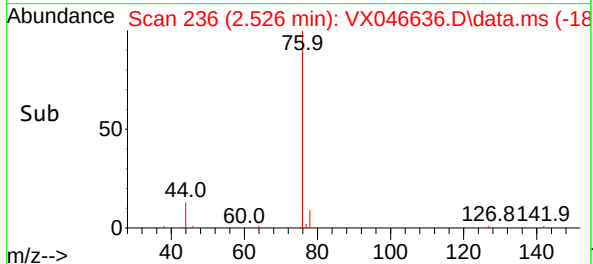
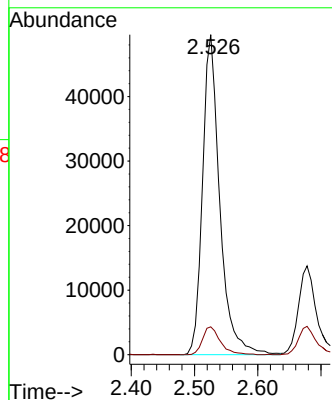
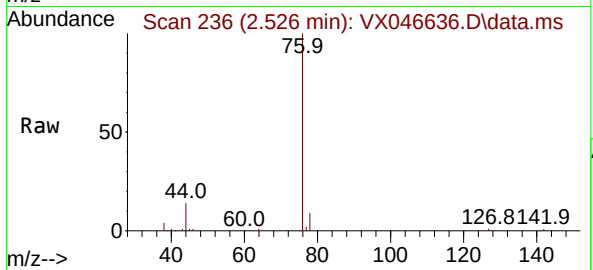
#17
Carbon Disulfide
Concen: 48.207 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 76 Resp: 9412
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4

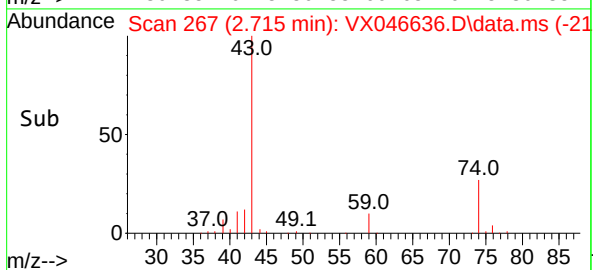
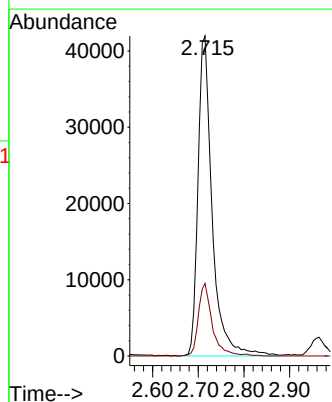
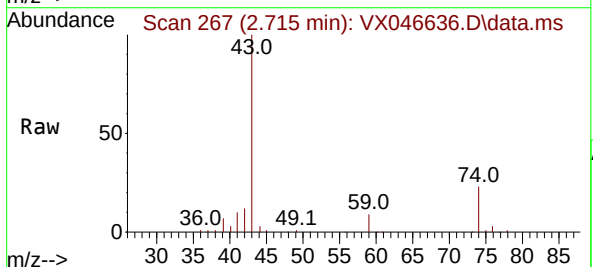
Manual Integrations
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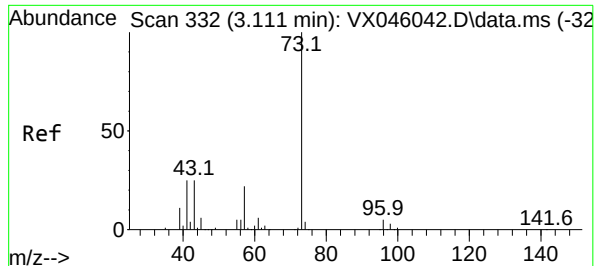
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#18
Methyl Acetate
Concen: 55.283 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 43 Resp: 90756
Ion Ratio Lower Upper
43 100
74 21.8 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 53.911 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 173499

Ion Ratio Lower Upper

73 100

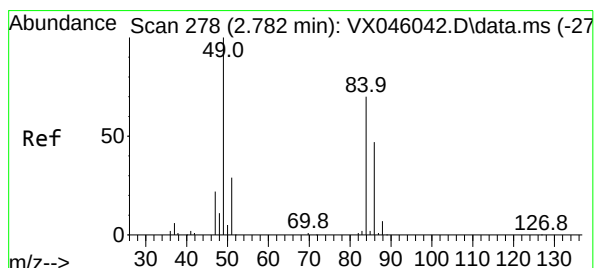
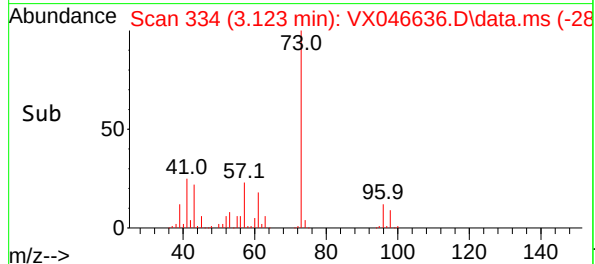
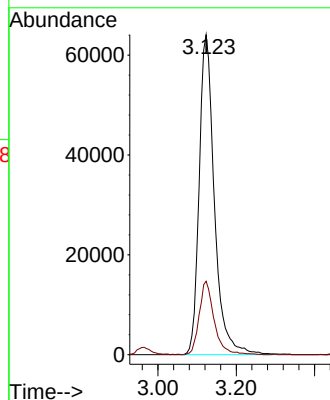
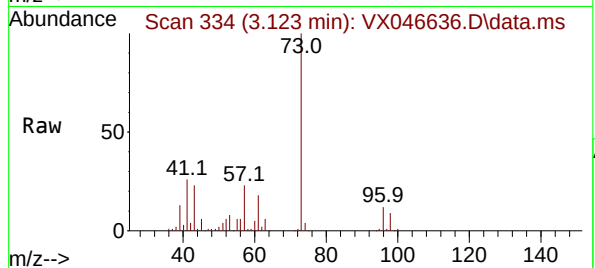
57 22.9 17.7 26.5

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#20

Methylene Chloride

Concen: 50.139 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion: 84 Resp: 55439

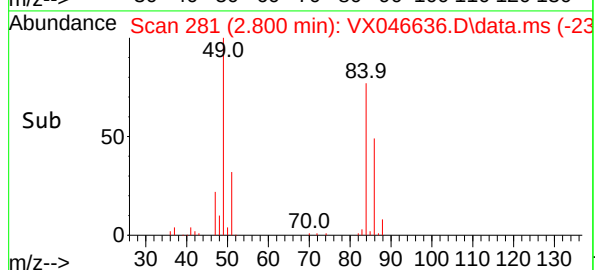
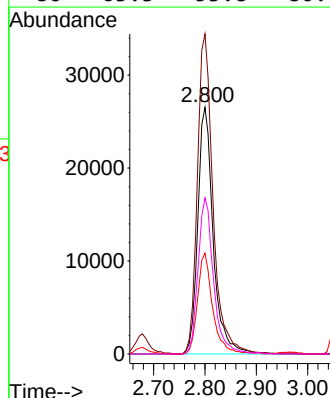
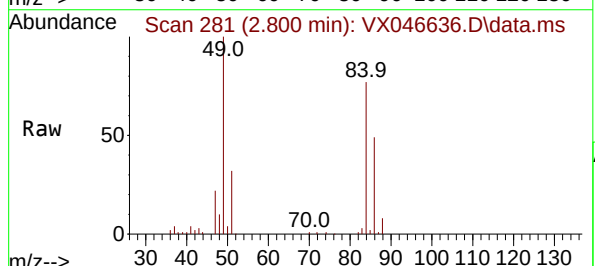
Ion Ratio Lower Upper

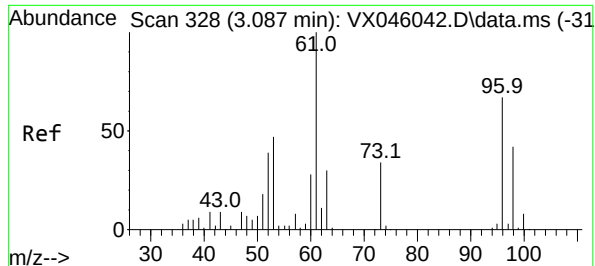
84 100

49 129.8 113.9 170.9

51 40.9 33.5 50.3

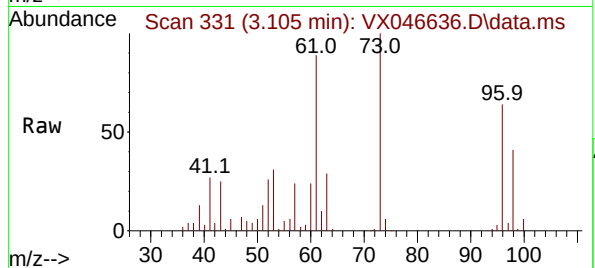
86 63.3 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 49.675 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

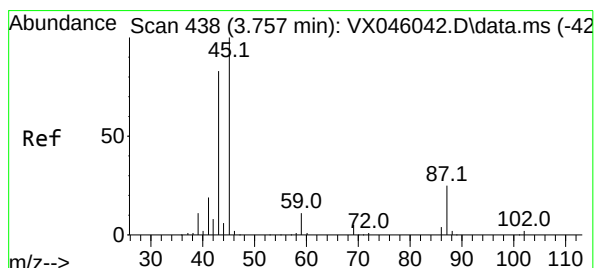
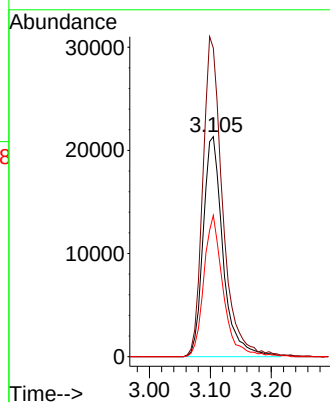
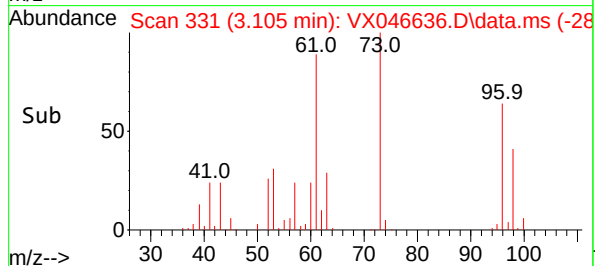
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 96 Resp: 48350
Ion Ratio Lower Upper
96 100
61 140.2 119.5 179.3
98 64.2 50.0 75.0

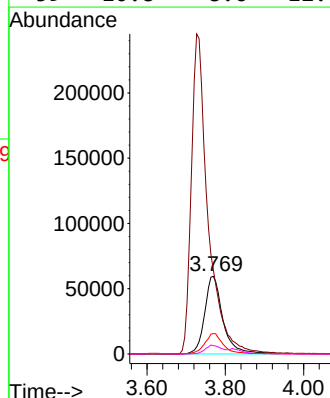
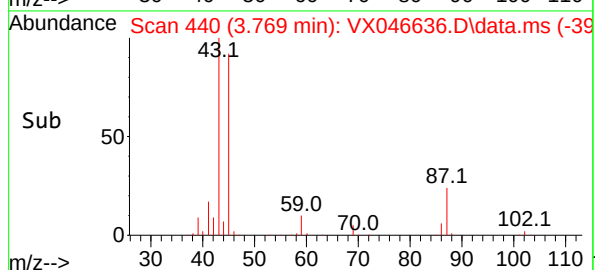
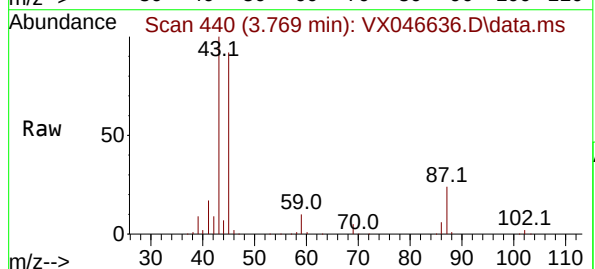
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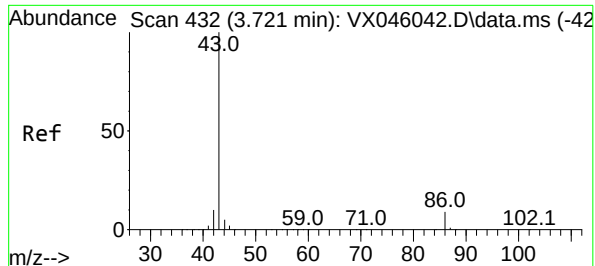
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#22
Diisopropyl ether
Concen: 53.823 ug/l
RT: 3.769 min Scan# 440
Delta R.T. -0.013 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 45 Resp: 191676
Ion Ratio Lower Upper
45 100
43 108.0 66.6 100.0#
87 26.3 19.8 29.6
59 10.8 8.6 12.8





#23

Vinyl Acetate

Concen: 265.747 ug/l

RT: 3.727 min Scan# 41

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 730658

Ion Ratio Lower Upper

43 100

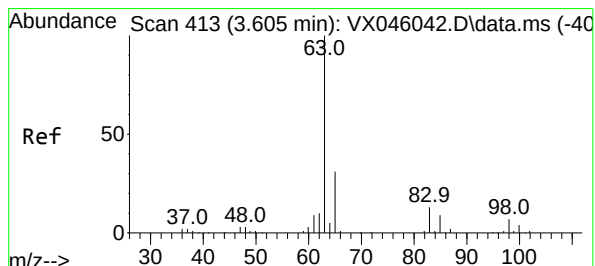
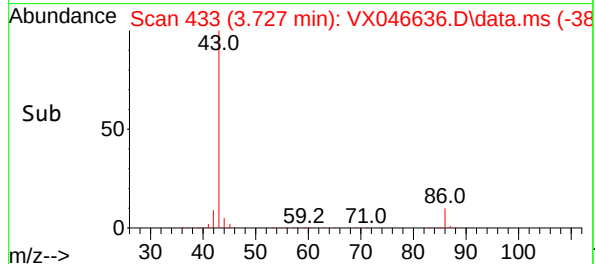
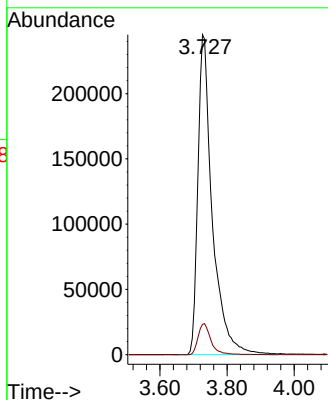
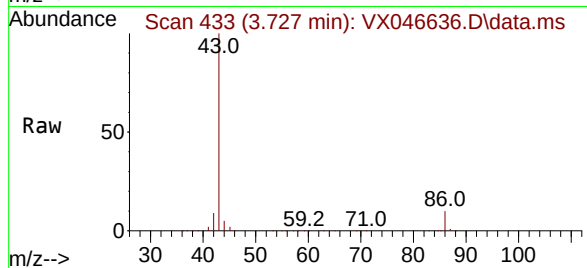
86 9.5 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#24

1,1-Dichloroethane

Concen: 51.716 ug/l

RT: 3.617 min Scan# 415

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

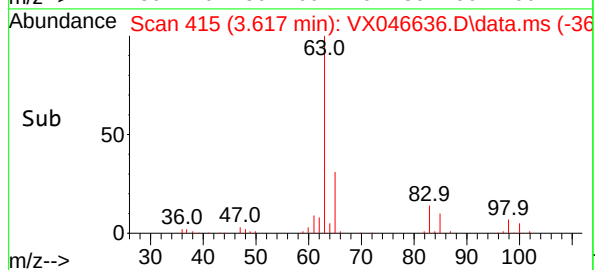
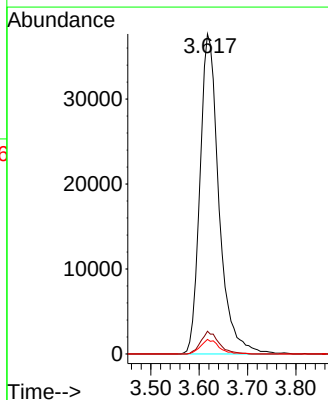
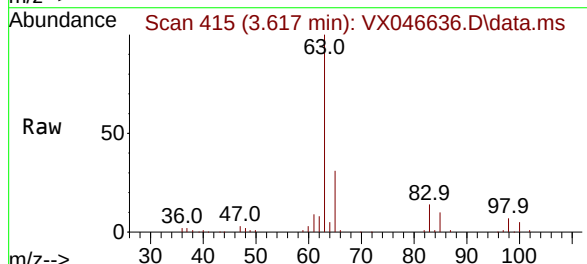
Tgt Ion: 63 Resp: 102645

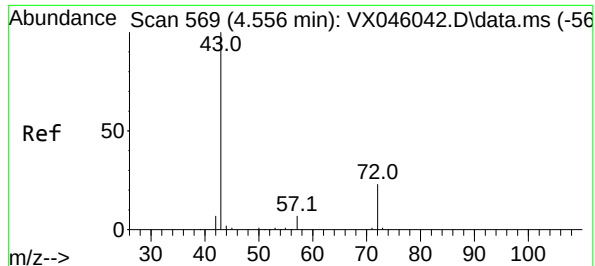
Ion Ratio Lower Upper

63 100

98 7.1 3.6 10.8

100 4.5 2.1 6.3





#25

2-Butanone

Concen: 245.374 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 188260

Ion Ratio Lower Upper

43 100

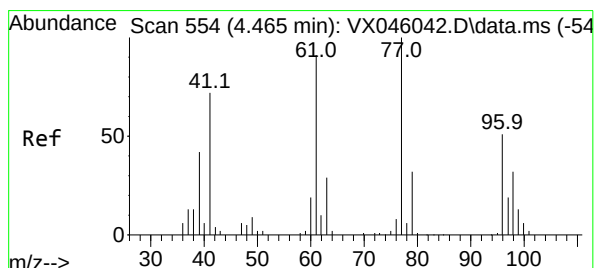
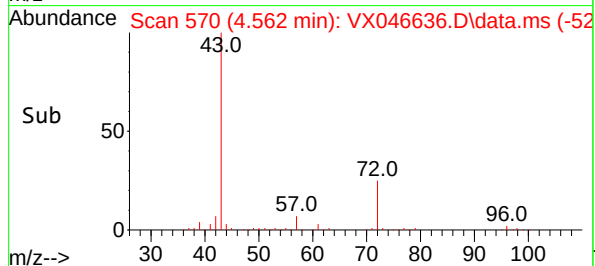
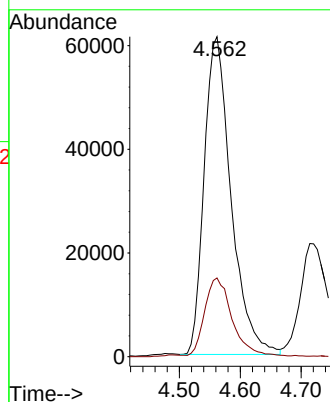
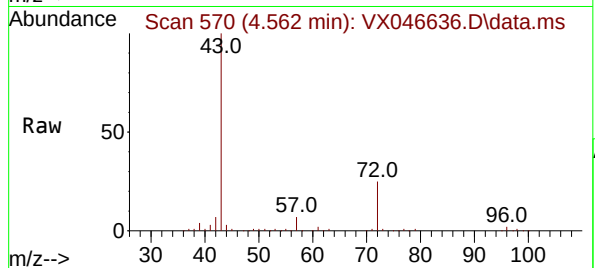
72 24.3 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 51.935 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046636.D

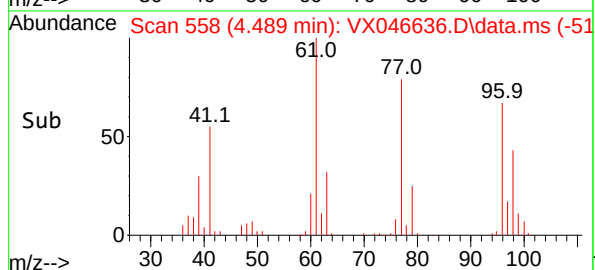
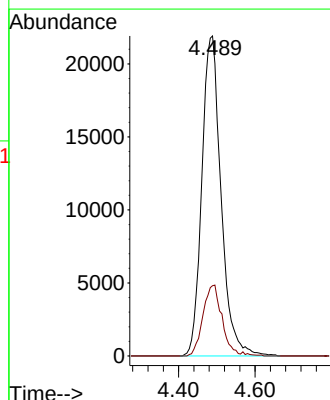
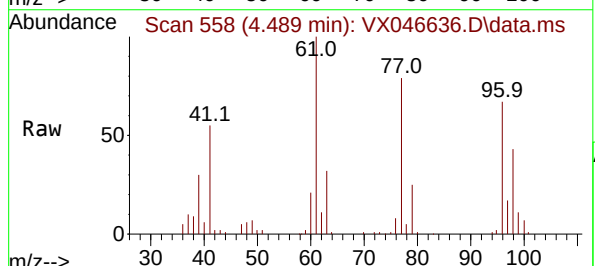
Acq: 11 Jun 2025 14:46

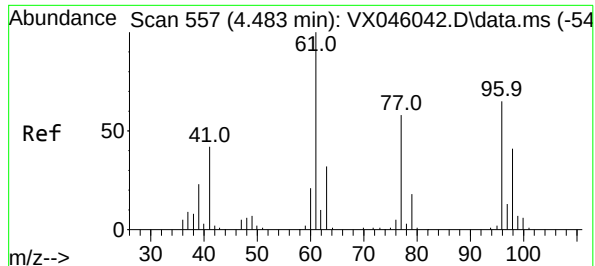
Tgt Ion: 77 Resp: 76522

Ion Ratio Lower Upper

77 100

97 21.7 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 51.635 ug/l

RT: 4.495 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 61869

Ion Ratio Lower Upper

96 100

61 153.5 0.0 322.8

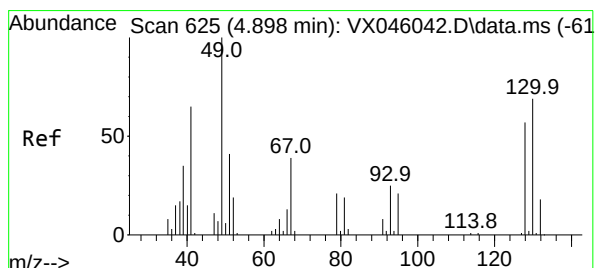
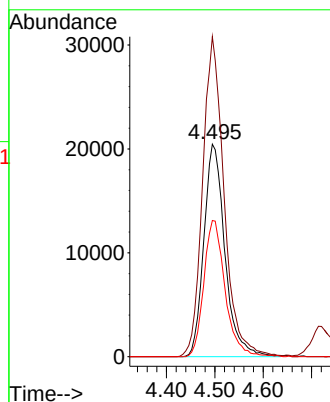
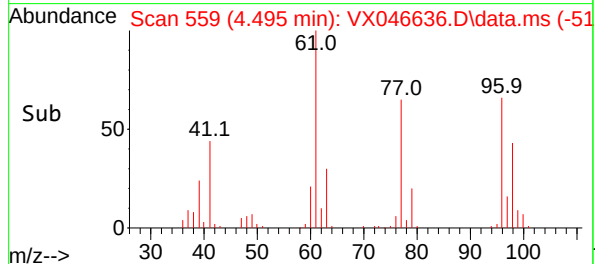
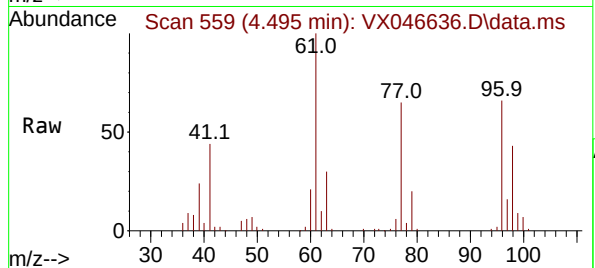
98 64.8 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 46.537 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

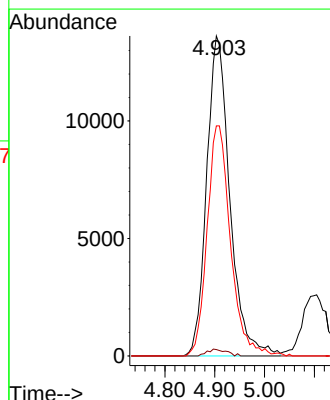
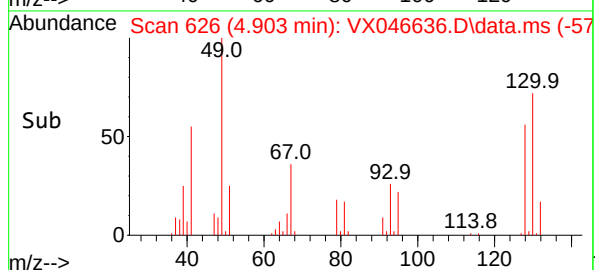
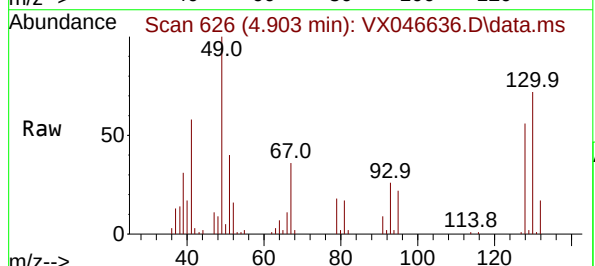
Tgt Ion: 49 Resp: 44054

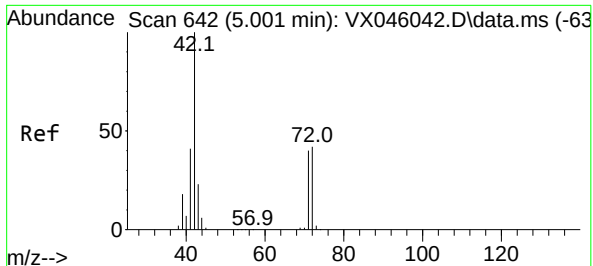
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 72.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 240.984 ug/l

RT: 5.013 min Scan# 642

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 11676

Ion Ratio Lower Upper

42 100

72 43.9 33.7 50.5

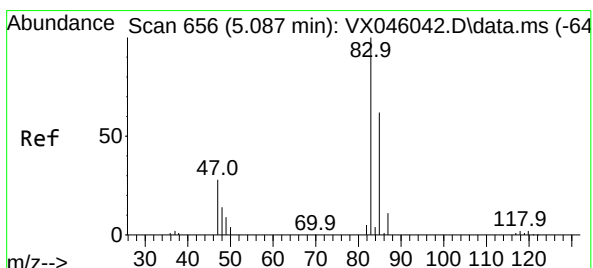
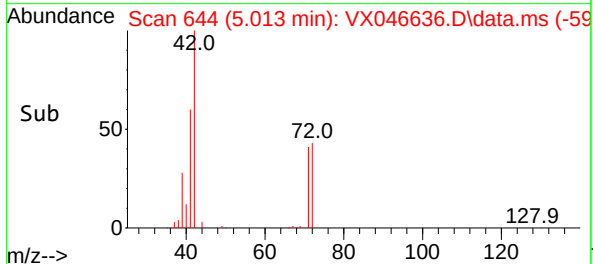
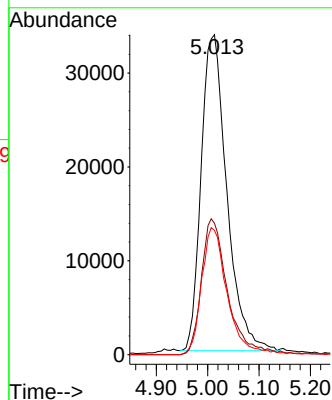
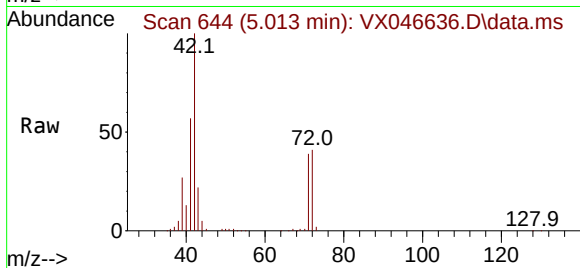
71 40.3 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 53.424 ug/l

RT: 5.098 min Scan# 658

Delta R.T. -0.013 min

Lab File: VX046636.D

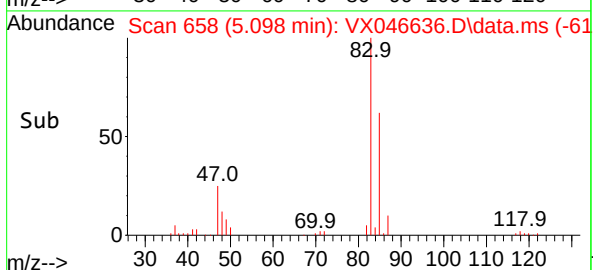
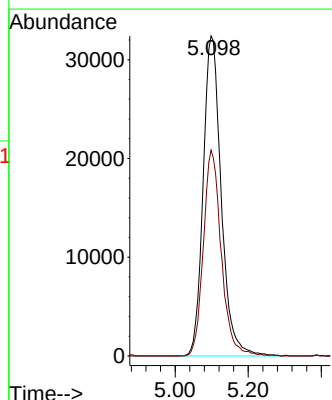
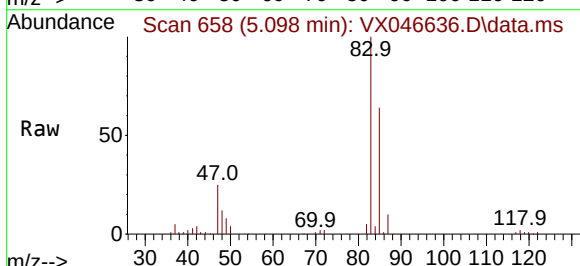
Acq: 11 Jun 2025 14:46

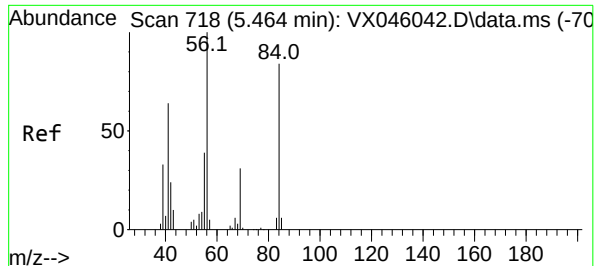
Tgt Ion: 83 Resp: 111101

Ion Ratio Lower Upper

83 100

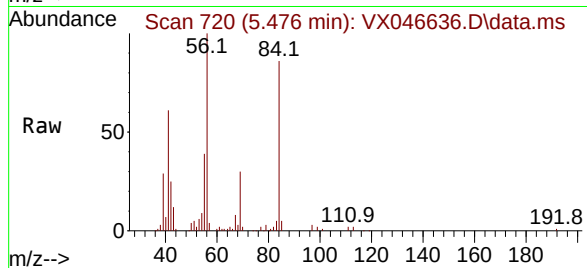
85 64.3 49.3 73.9





#31
Cyclohexane
Concen: 49.332 ug/l
RT: 5.476 min Scan# 718
Delta R.T. -0.013 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

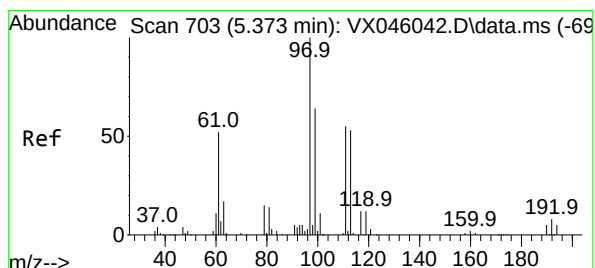
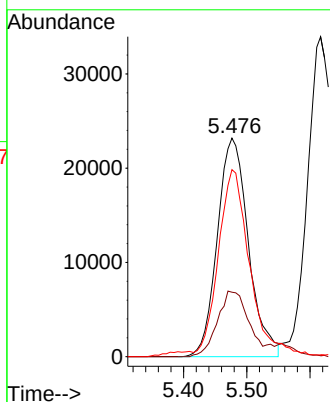
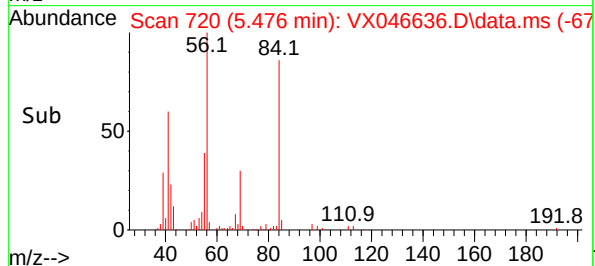
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 56 Resp: 79044
Ion Ratio Lower Upper
56 100
69 29.5 24.4 36.6
84 83.3 66.9 100.3

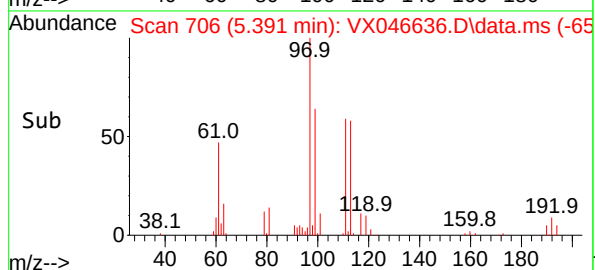
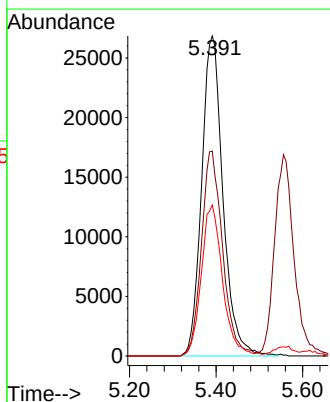
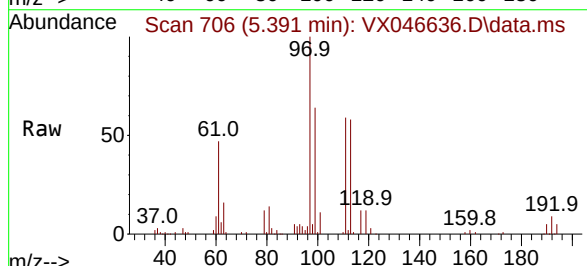
Manual Integrations
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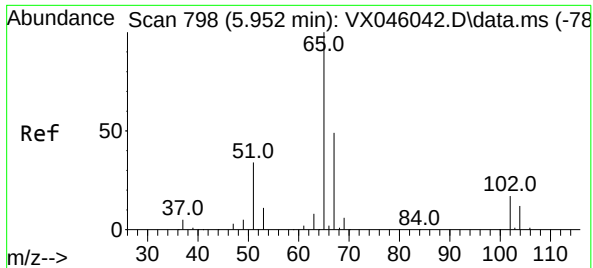
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#32
1,1,1-Trichloroethane
Concen: 51.668 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 97 Resp: 91912
Ion Ratio Lower Upper
97 100
99 63.4 51.8 77.6
61 47.0 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 46.653 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 64299

Ion Ratio Lower Upper

65 100

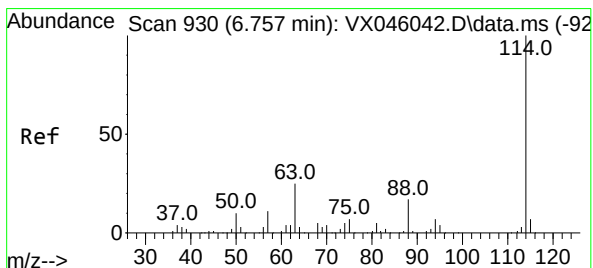
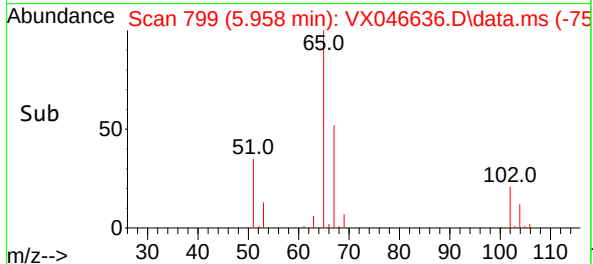
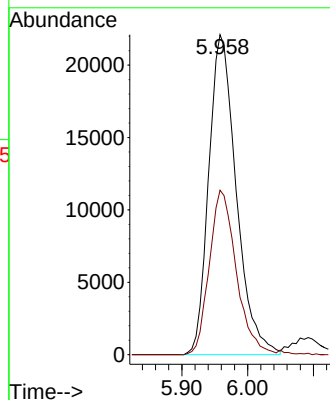
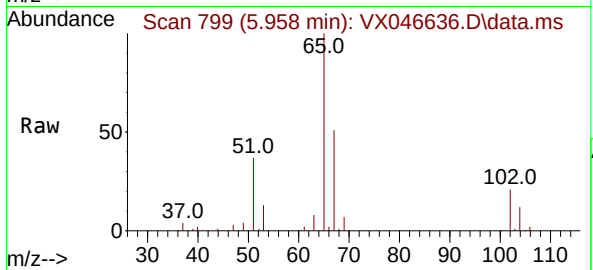
67 50.4 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

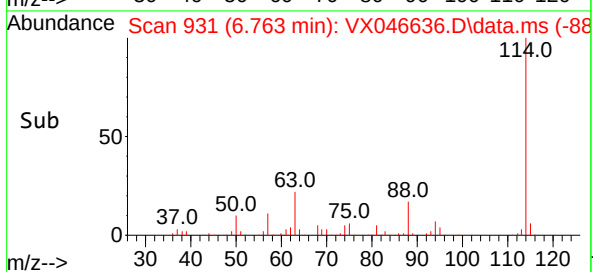
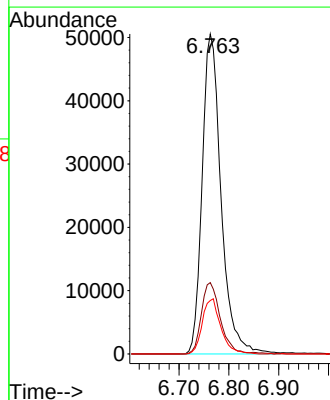
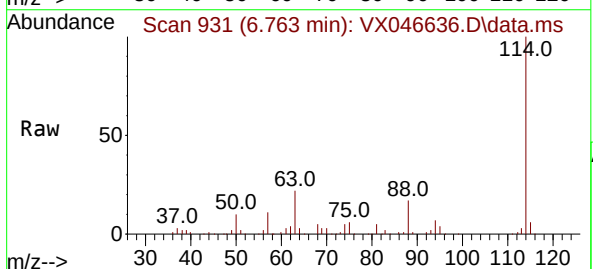
Tgt Ion:114 Resp: 133266

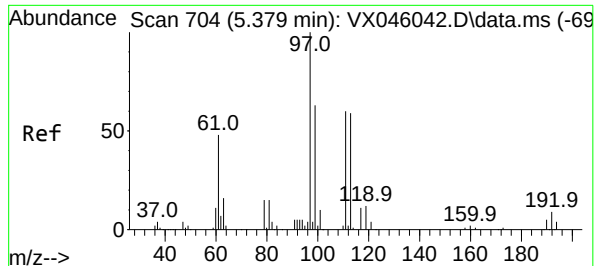
Ion Ratio Lower Upper

114 100

63 22.3 0.0 49.2

88 16.7 0.0 33.6





#35

Dibromofluoromethane

Concen: 51.915 ug/l

RT: 5.391 min Scan# 704

Delta R.T. -0.012 min

Lab File: VX046636.D

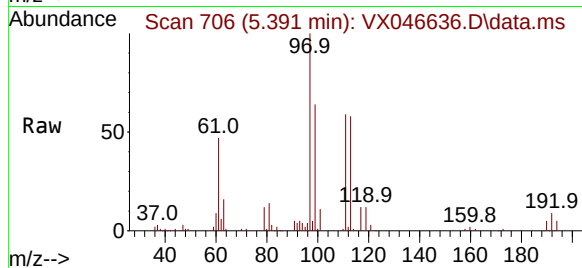
Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050



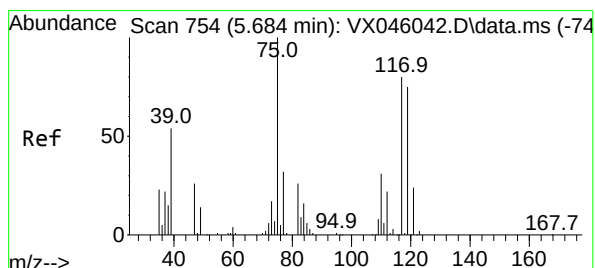
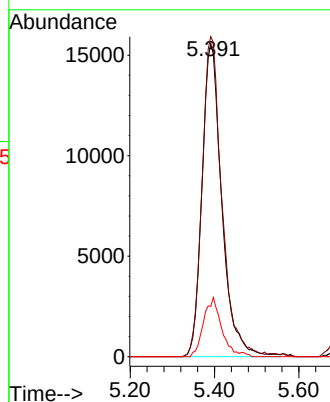
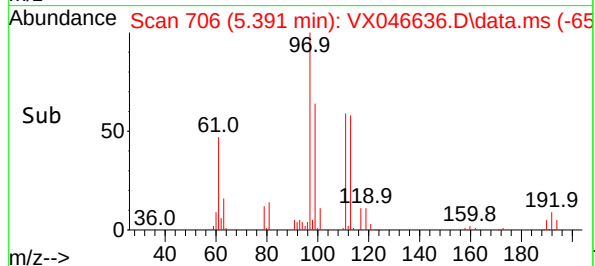
Tgt Ion:	113	Resp:	50878
Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.1	124.7
192	17.4	13.3	19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

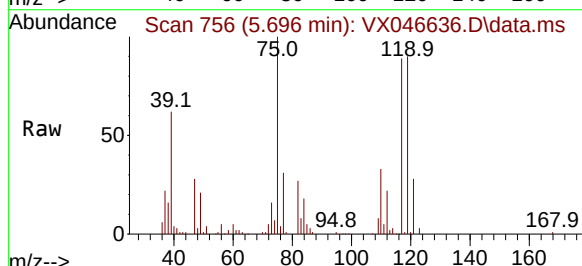
Concen: 47.660 ug/l

RT: 5.696 min Scan# 756

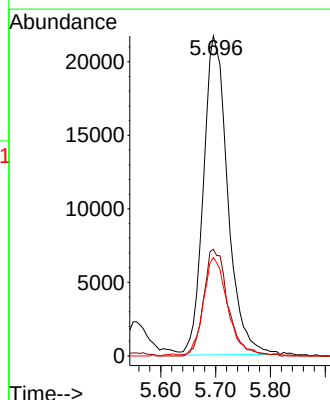
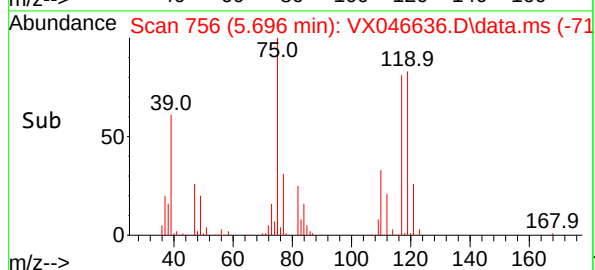
Delta R.T. -0.018 min

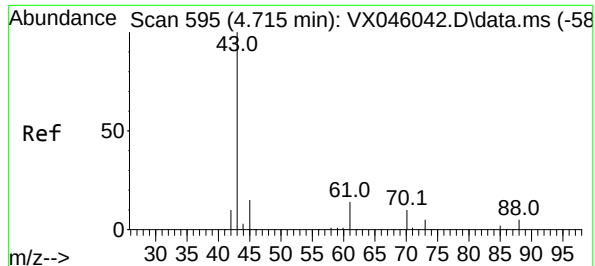
Lab File: VX046636.D

Acq: 11 Jun 2025 14:46



Tgt Ion:	75	Resp:	66719
Ion	Ratio	Lower	Upper
75	100		
110	33.5	16.3	48.9
77	31.2	24.3	36.5





#37

Ethyl Acetate

Concen: 53.299 ug/l

RT: 4.714 min Scan# 595

Delta R.T. -0.019 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 7282

Ion Ratio Lower Upper

43 100

61 13.1 10.3 15.5

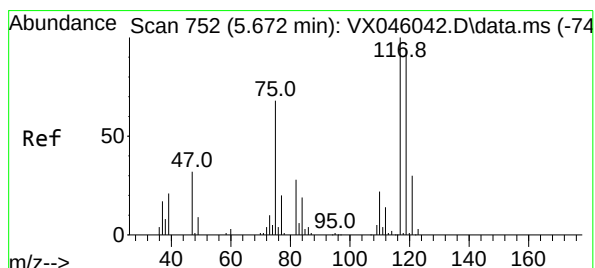
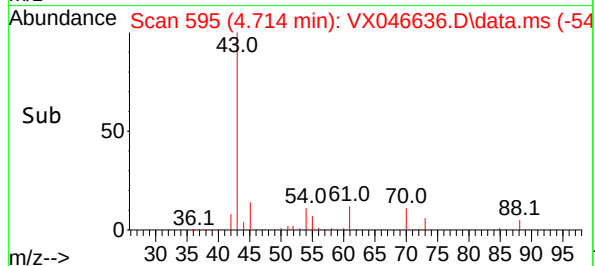
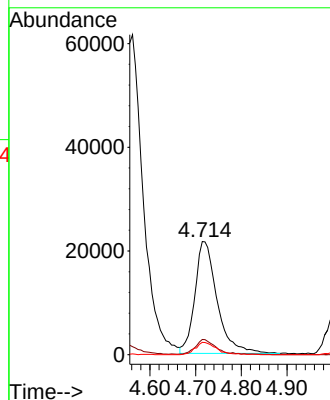
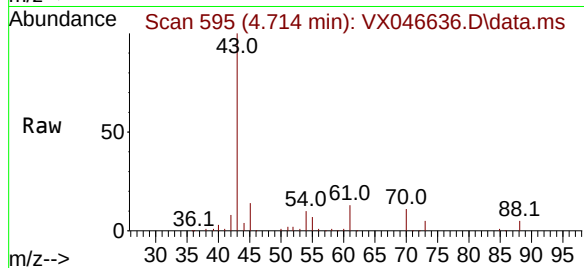
70 10.4 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 49.184 ug/l

RT: 5.684 min Scan# 754

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

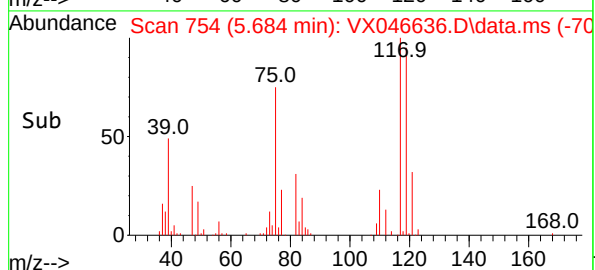
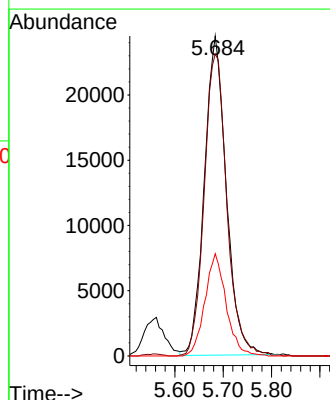
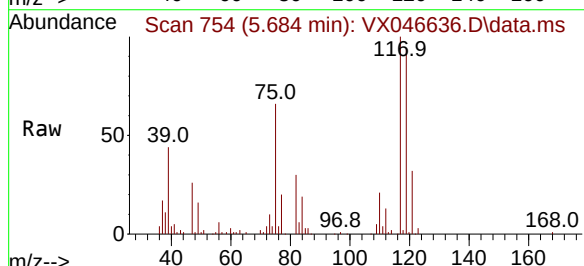
Tgt Ion:117 Resp: 77120

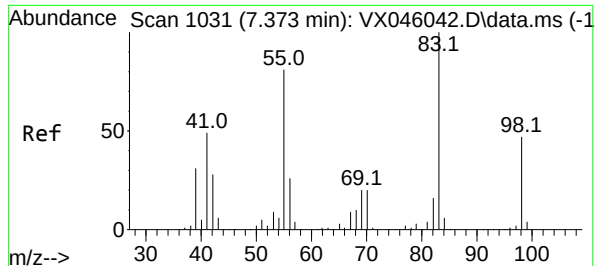
Ion Ratio Lower Upper

117 100

119 94.6 75.2 112.8

121 32.1 24.2 36.4





#39

Methylcyclohexane

Concen: 48.113 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 79500

Ion Ratio Lower Upper

83 100

55 81.8 64.7 97.1

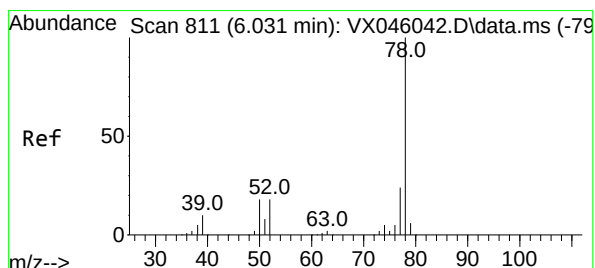
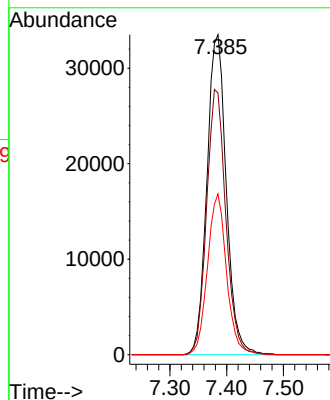
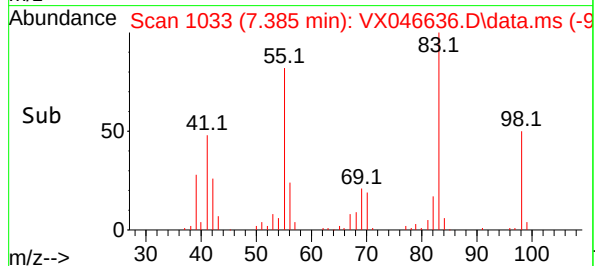
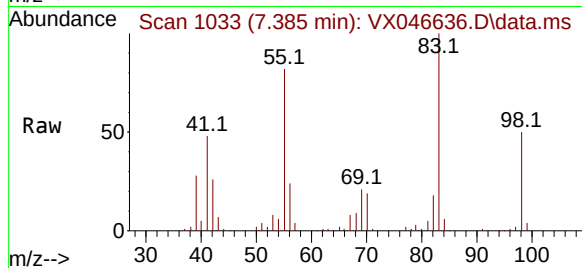
98 50.2 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 51.876 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.013 min

Lab File: VX046636.D

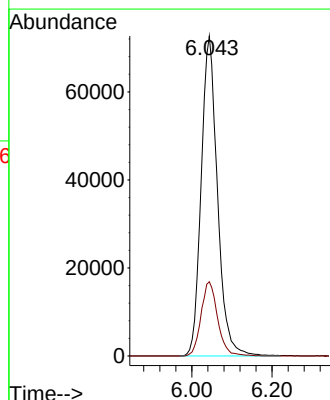
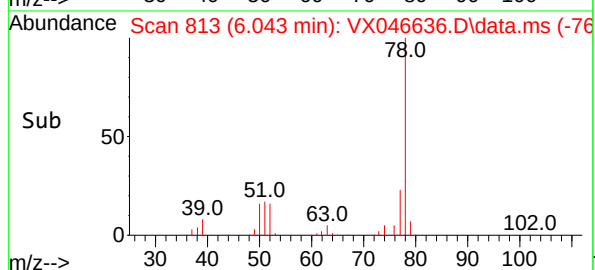
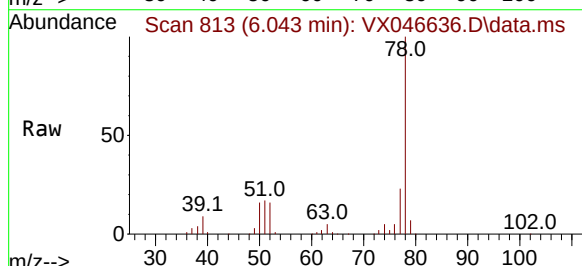
Acq: 11 Jun 2025 14:46

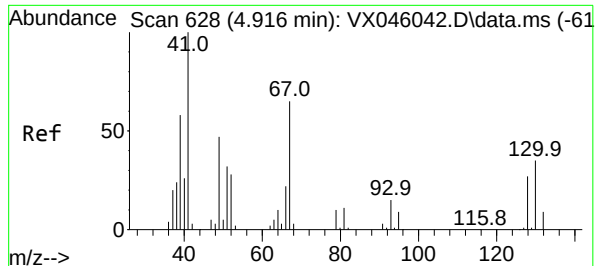
Tgt Ion: 78 Resp: 204444

Ion Ratio Lower Upper

78 100

77 23.2 19.0 28.4





#41

Methacrylonitrile

Concen: 51.538 ug/l

RT: 4.922 min Scan# 61

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 41 Resp: 43728

Ion Ratio Lower Upper

41 100

39 56.2 47.2 70.8

67 72.3 50.7 76.1

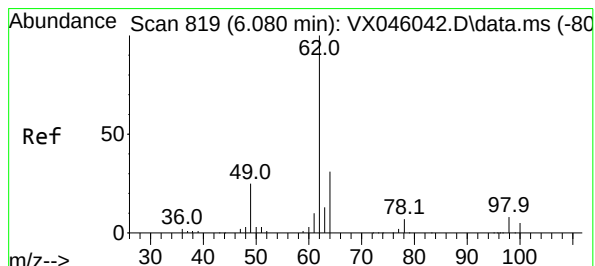
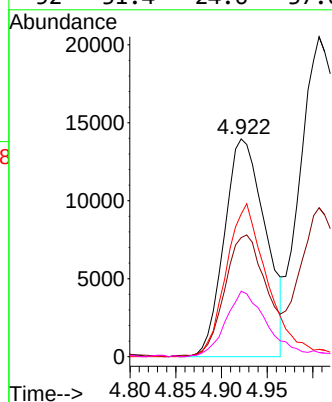
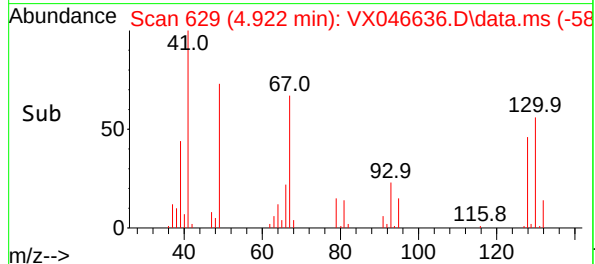
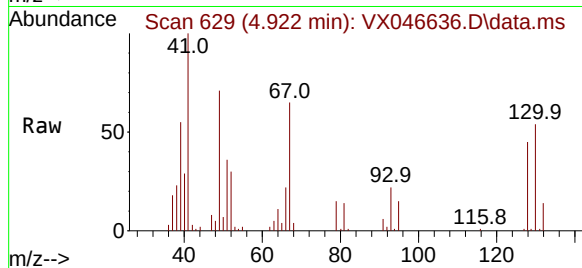
52 31.4 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#42

1,2-Dichloroethane

Concen: 50.505 ug/l

RT: 6.092 min Scan# 821

Delta R.T. -0.006 min

Lab File: VX046636.D

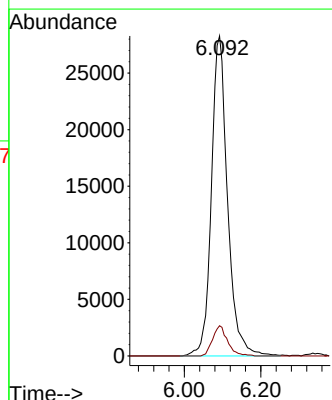
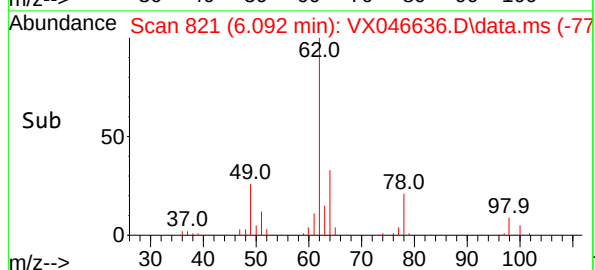
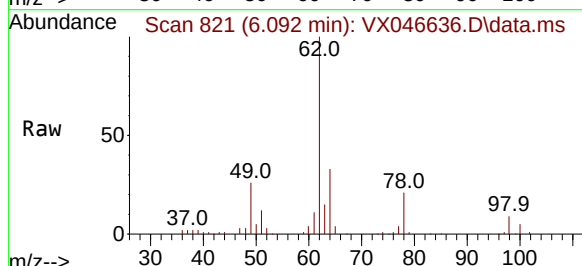
Acq: 11 Jun 2025 14:46

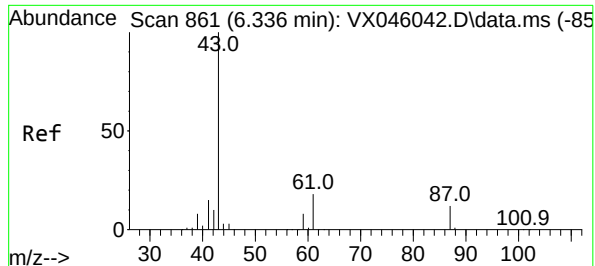
Tgt Ion: 62 Resp: 82805

Ion Ratio Lower Upper

62 100

98 8.8 0.0 15.2





#43

Isopropyl Acetate

Concen: 51.690 ug/l

RT: 6.342 min Scan# 80

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 12312

Ion Ratio Lower Upper

43

100

61

87

18.9

12.1

14.3

9.5

21.5

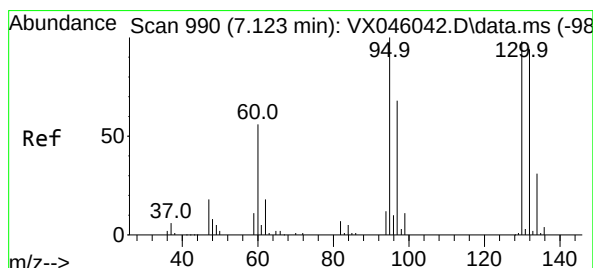
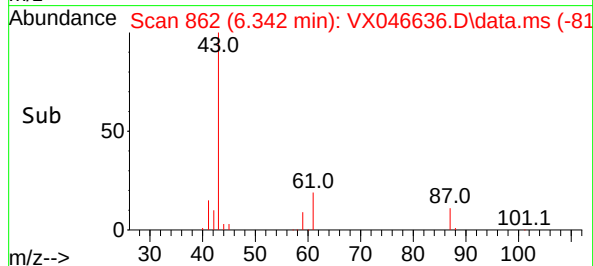
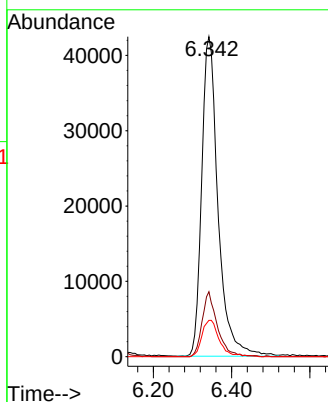
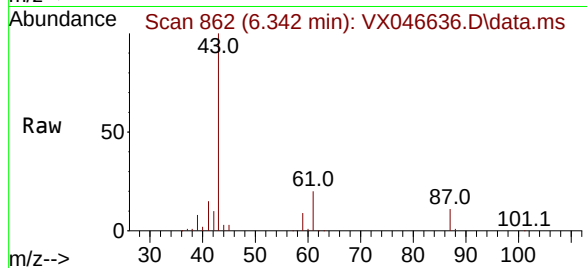
14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 50.496 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.007 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion:130 Resp: 50564

Ion Ratio Lower Upper

130

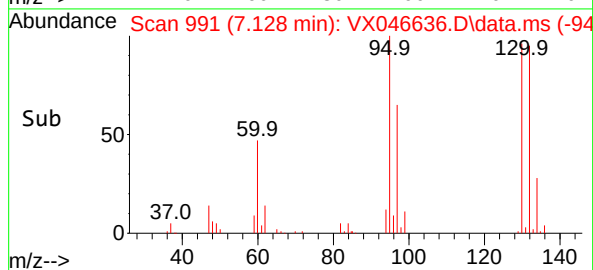
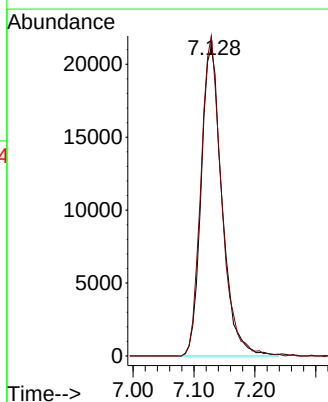
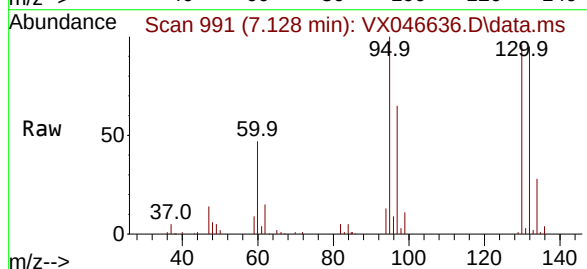
100

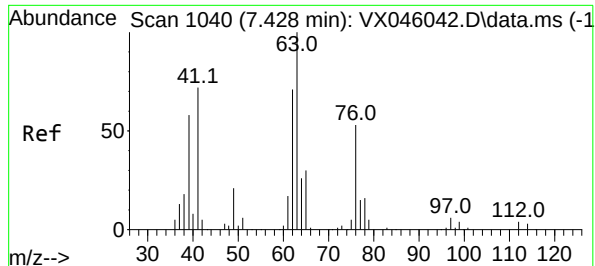
95

103.7

0.0

204.2





#45

1,2-Dichloropropane

Concen: 53.877 ug/l

RT: 7.427 min Scan# 1040

Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 5480

Ion Ratio Lower Upper

63 100

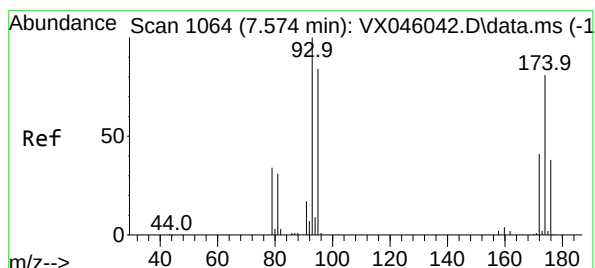
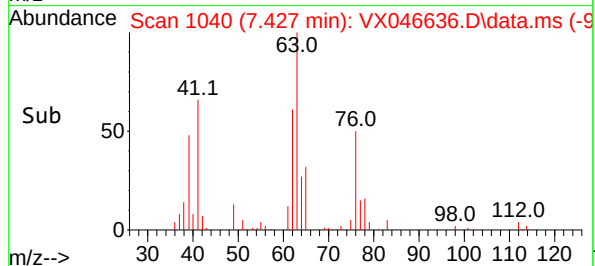
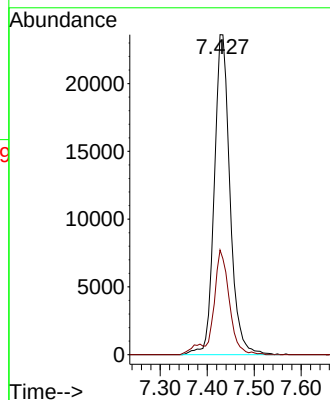
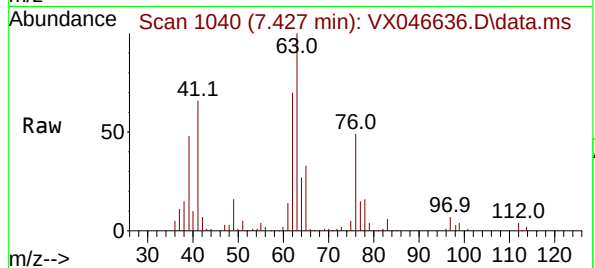
65 32.7 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 52.002 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

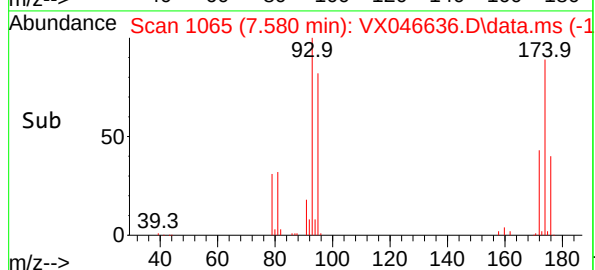
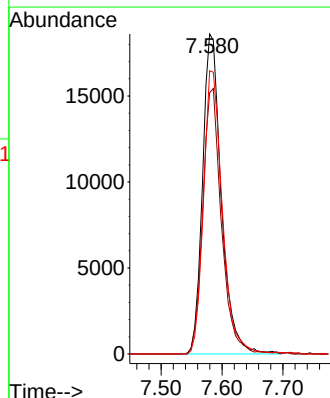
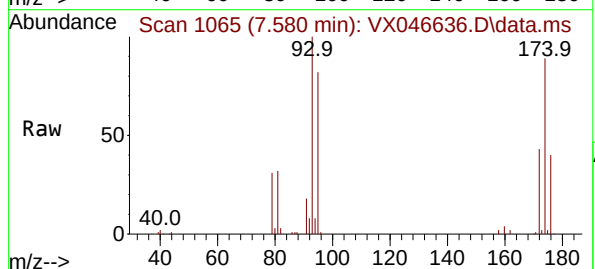
Tgt Ion: 93 Resp: 39795

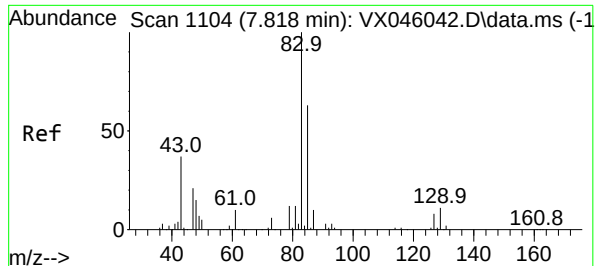
Ion Ratio Lower Upper

93 100

95 83.1 65.6 98.4

174 89.3 68.2 102.2





#47

Bromodichloromethane

Concen: 54.764 ug/l

RT: 7.823 min Scan# 1105

Delta R.T. -0.007 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

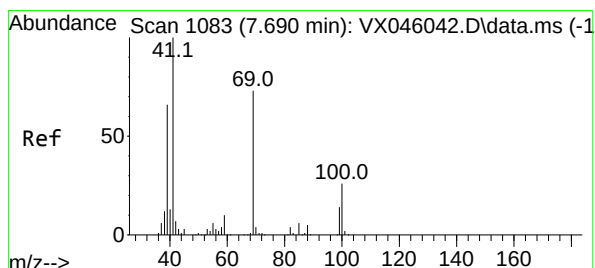
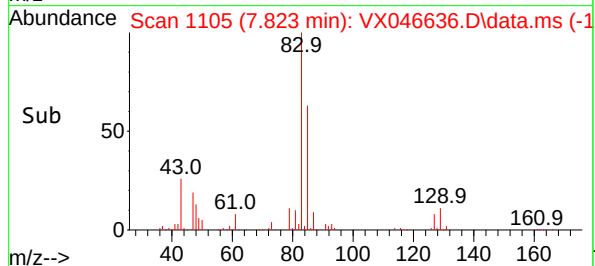
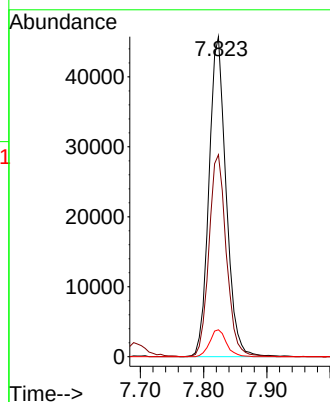
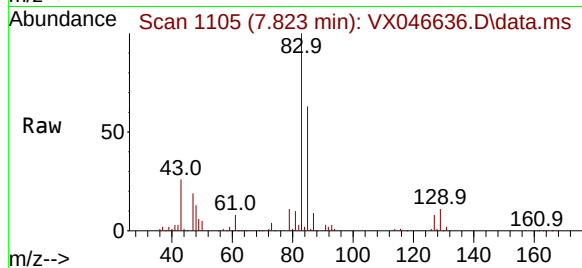
Tgt Ion:	83	Resp:	86170
Ion	Ratio	Lower	Upper
83	100		
85	63.1	50.5	75.7
127	8.4	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 52.623 ug/l

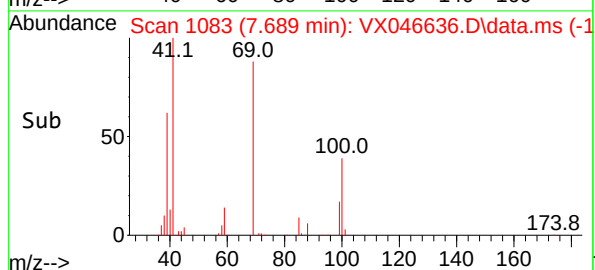
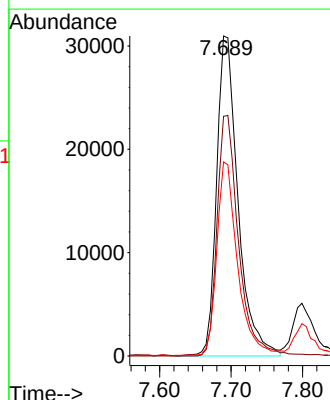
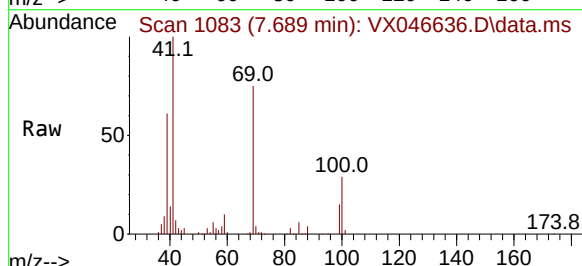
RT: 7.689 min Scan# 1083

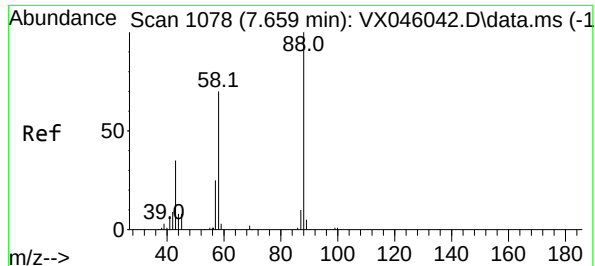
Delta R.T. -0.013 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Tgt Ion:	41	Resp:	64491
Ion	Ratio	Lower	Upper
41	100		
69	75.5	58.5	87.7
39	59.2	51.7	77.5





#49

1,4-Dioxane

Concen: 936.440 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 1534

Ion Ratio Lower Upper

88 100

43 43.4 33.4 50.2

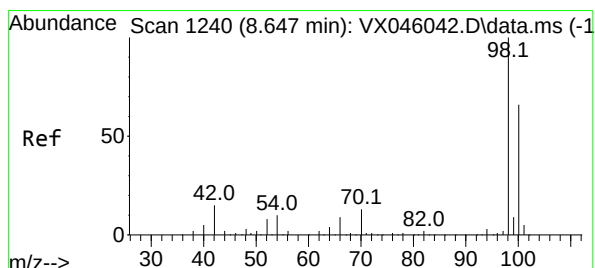
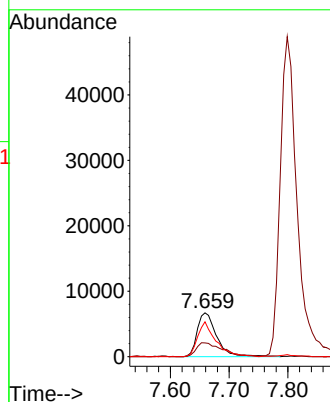
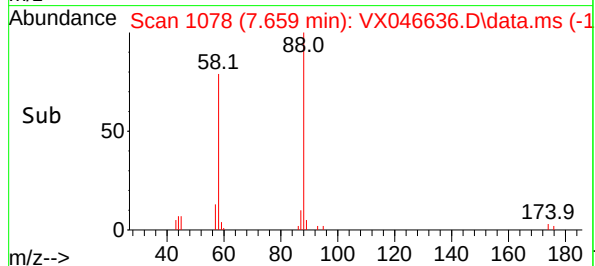
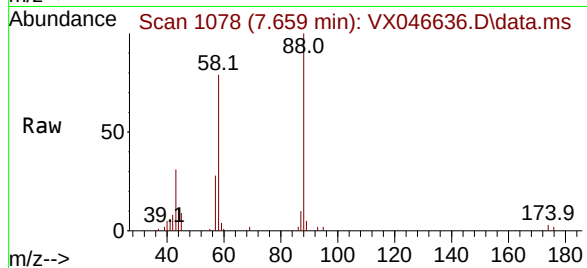
58 74.5 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 50.297 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.007 min

Lab File: VX046636.D

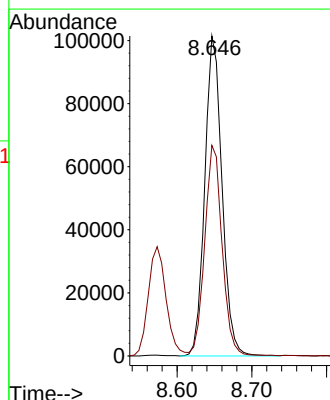
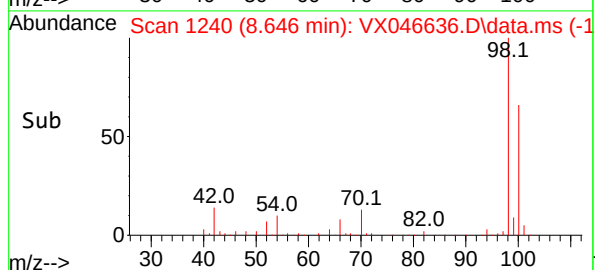
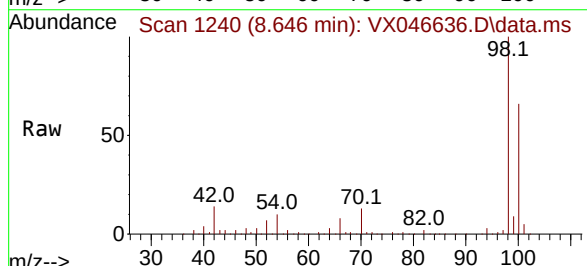
Acq: 11 Jun 2025 14:46

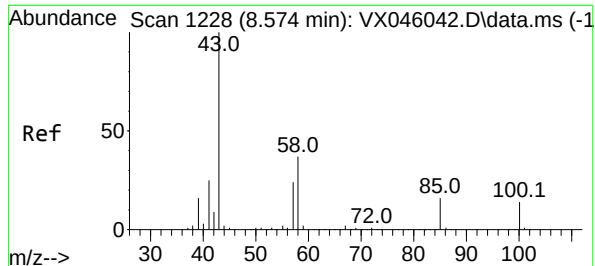
Tgt Ion: 98 Resp: 162512

Ion Ratio Lower Upper

98 100

100 66.0 53.5 80.3





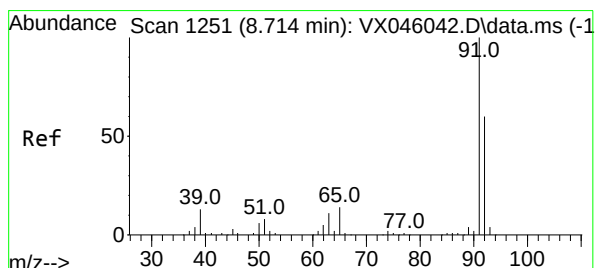
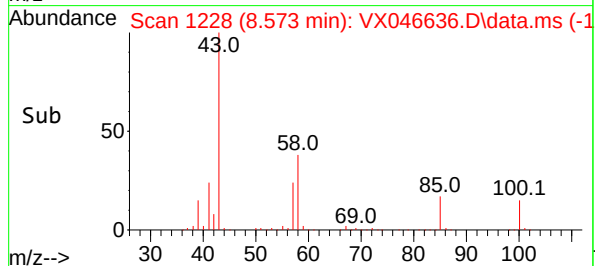
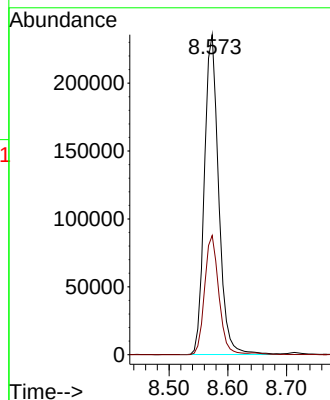
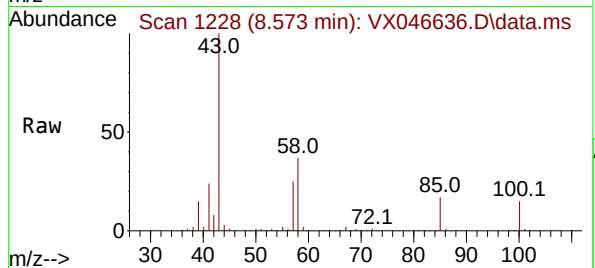
#51
4-Methyl-2-Pentanone
Concen: 263.985 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 399573
Ion Ratio Lower Upper
43 100
58 36.9 28.9 43.3

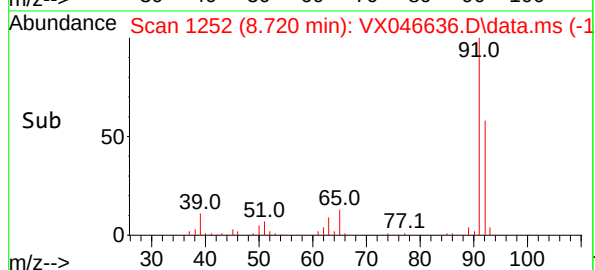
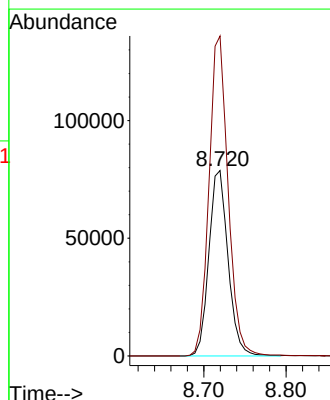
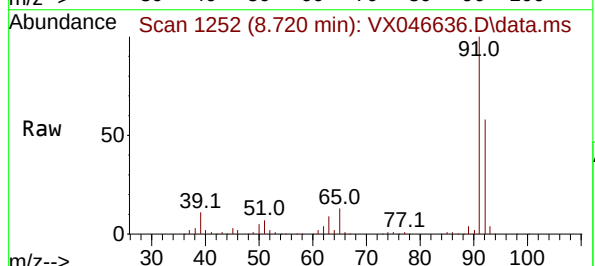
Manual Integrations
APPROVED

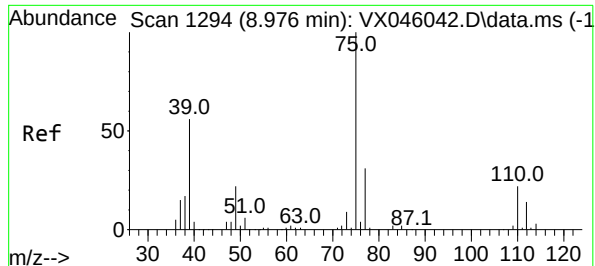
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#52
Toluene
Concen: 52.732 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 92 Resp: 127673
Ion Ratio Lower Upper
92 100
91 171.8 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 54.455 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 7682

Ion Ratio Lower Upper

75 100

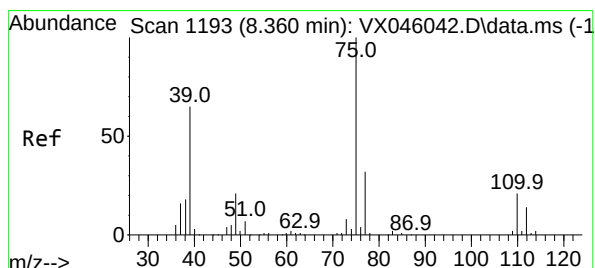
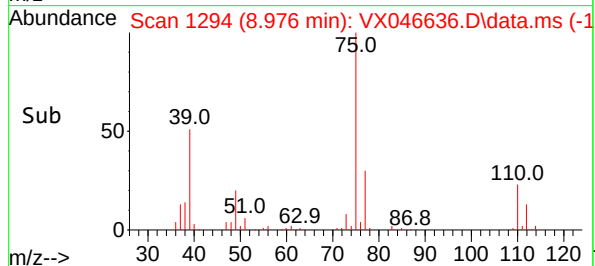
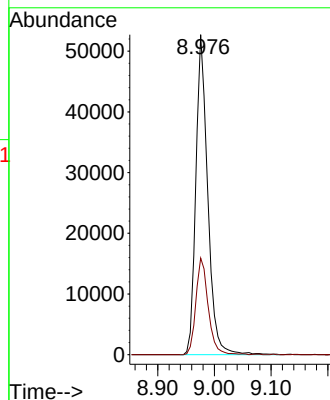
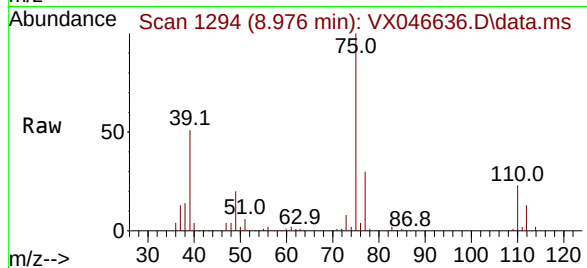
77 30.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#54

cis-1,3-Dichloropropene

Concen: 53.504 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

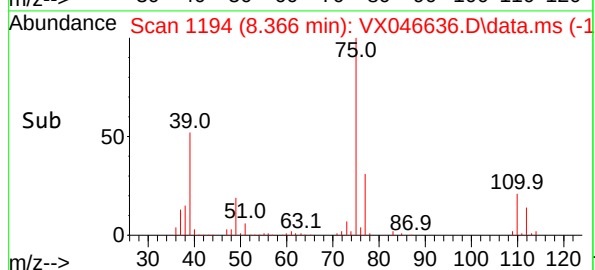
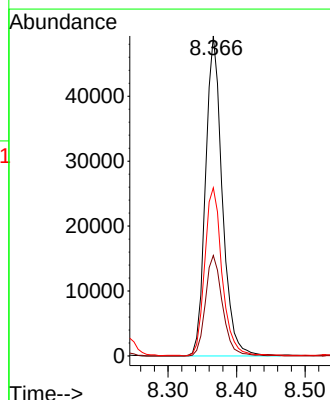
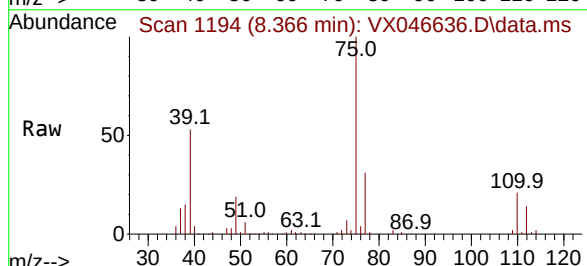
Tgt Ion: 75 Resp: 83927

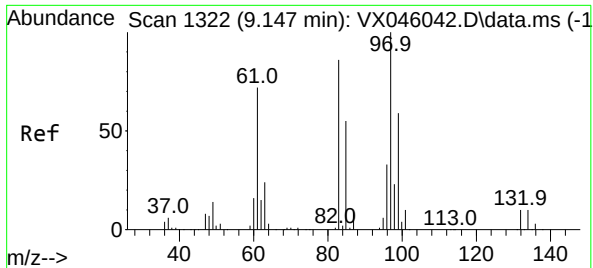
Ion Ratio Lower Upper

75 100

77 31.4 25.4 38.0

39 52.4 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 55.318 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. -0.001 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 97 Resp: 5376

Ion Ratio Lower Upper

97 100

83 84.0 69.0 103.6

85 56.1 44.3 66.5

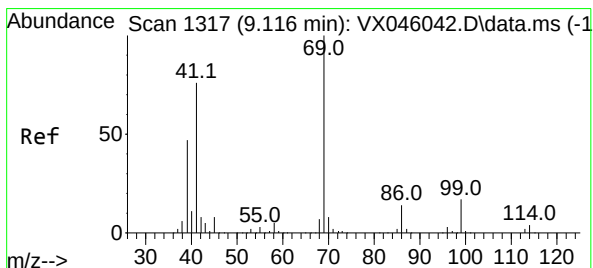
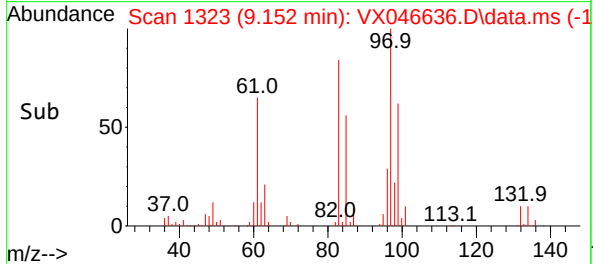
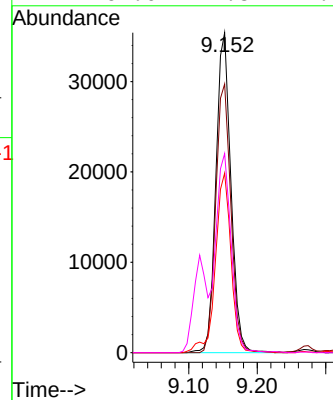
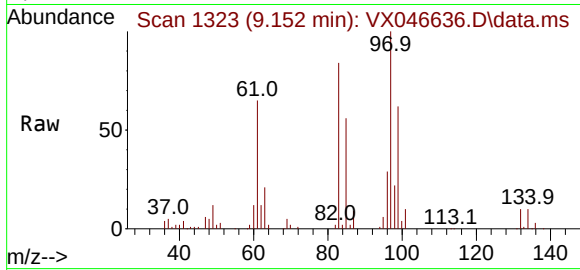
99 62.0 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 56.009 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

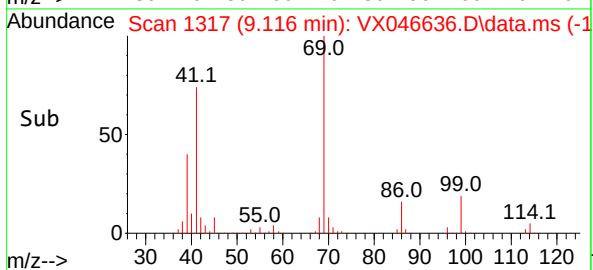
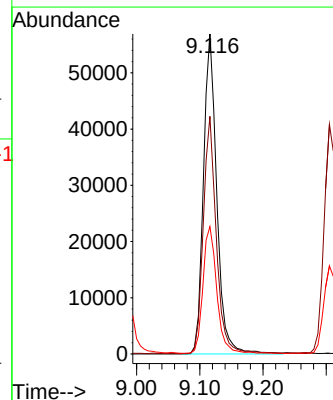
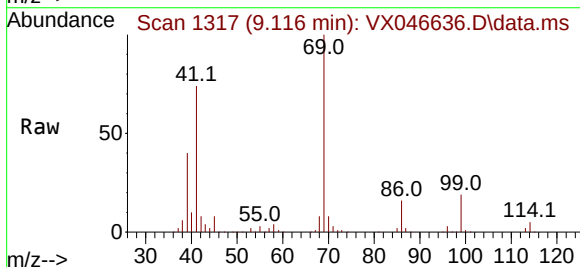
Tgt Ion: 69 Resp: 83775

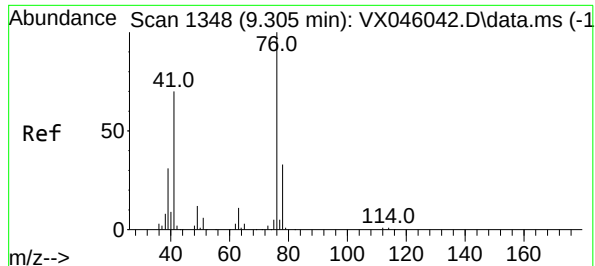
Ion Ratio Lower Upper

69 100

41 72.3 60.8 91.2

39 41.4 39.0 58.6





#57

1,3-Dichloropropane

Concen: 52.422 ug/l

RT: 9.305 min Scan# 1134

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 9004

Ion Ratio Lower Upper

76 100

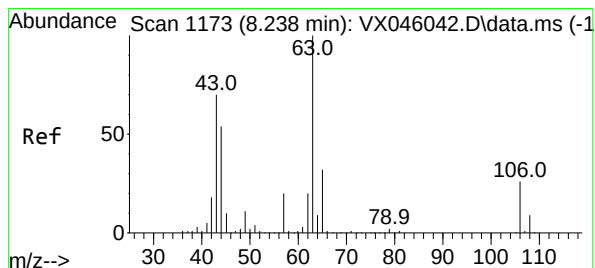
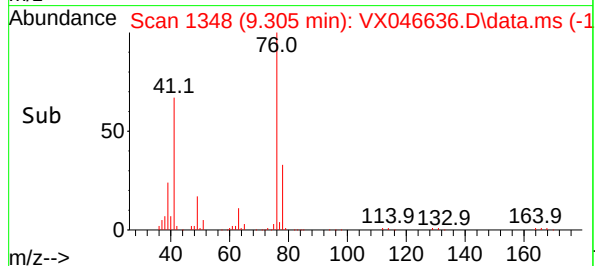
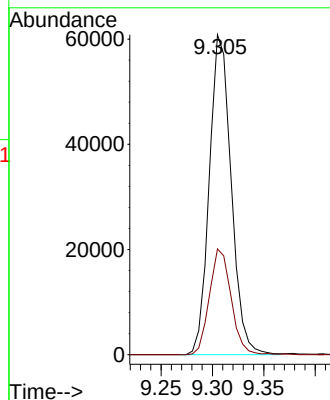
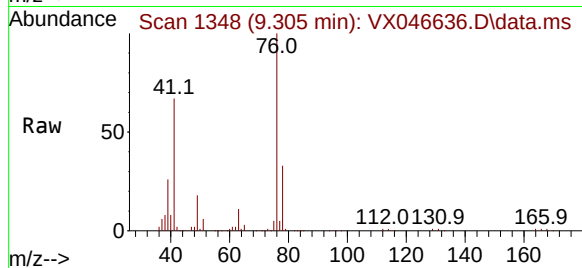
78 32.8 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#58

2-Chloroethyl Vinyl ether

Concen: 260.437 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046636.D

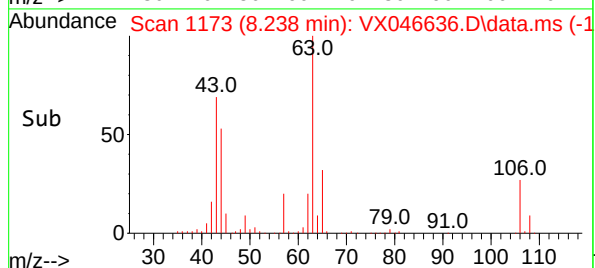
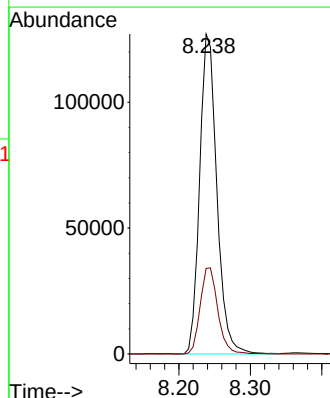
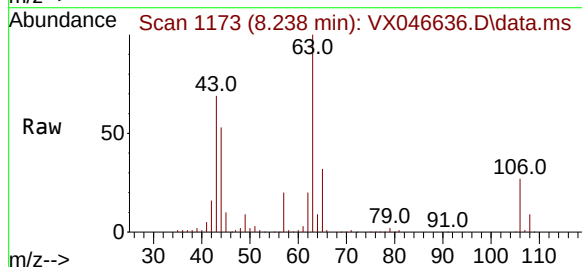
Acq: 11 Jun 2025 14:46

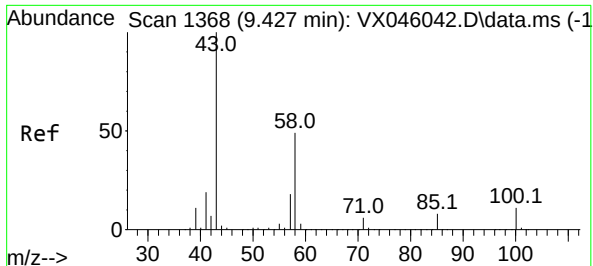
Tgt Ion: 63 Resp: 212181

Ion Ratio Lower Upper

63 100

106 27.5 21.5 32.3





#59

2-Hexanone

Concen: 259.182 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 281354

Ion Ratio Lower Upper

43 100

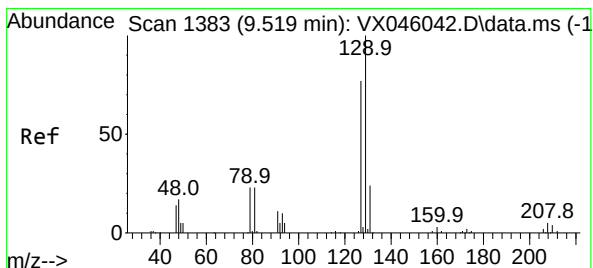
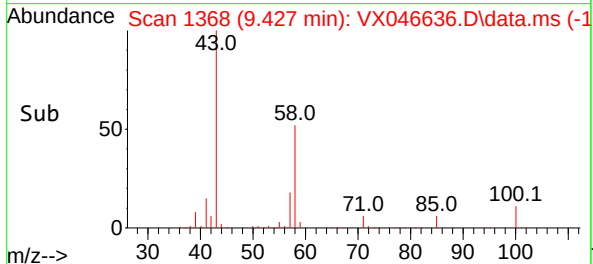
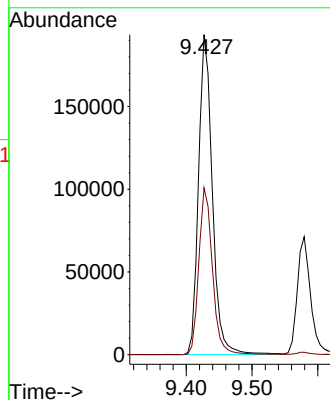
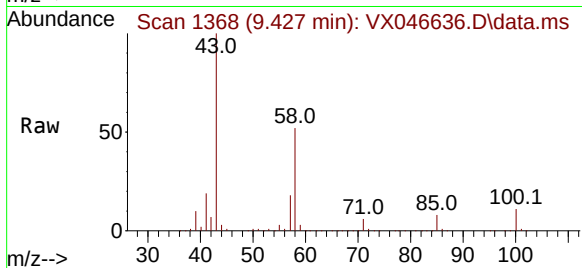
58 51.5 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#60

Dibromochloromethane

Concen: 55.050 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VX046636.D

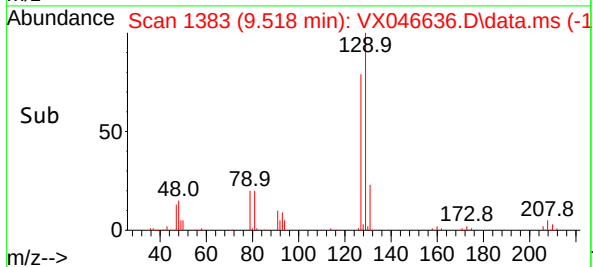
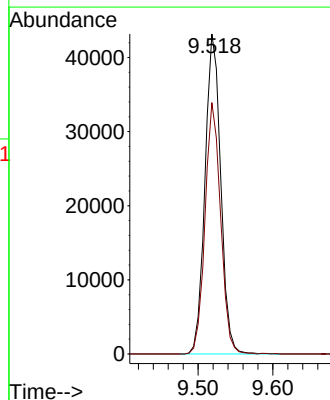
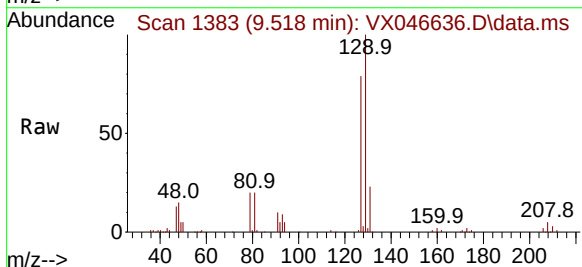
Acq: 11 Jun 2025 14:46

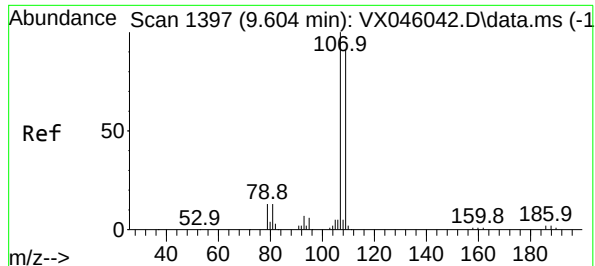
Tgt Ion:129 Resp: 62938

Ion Ratio Lower Upper

129 100

127 77.9 39.3 117.8





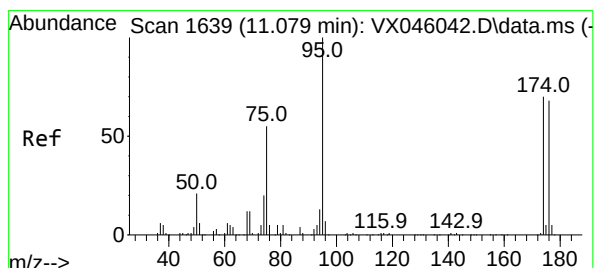
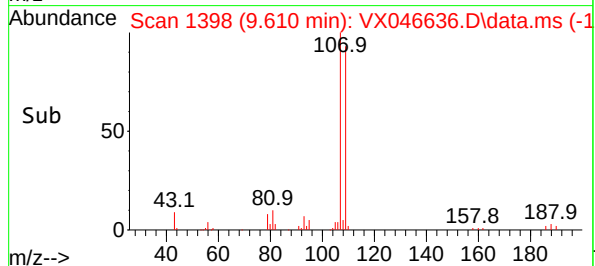
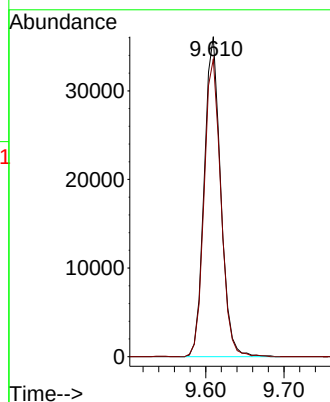
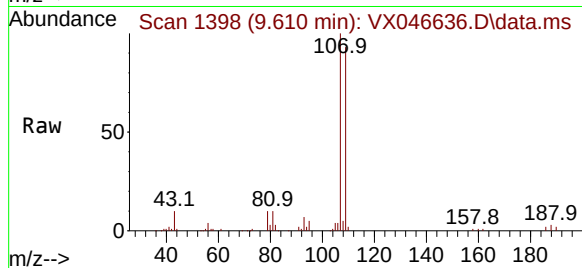
#61
1,2-Dibromoethane
Concen: 52.090 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:107 Resp: 52759
Ion Ratio Lower Upper
107 100
109 94.6 73.3 109.9

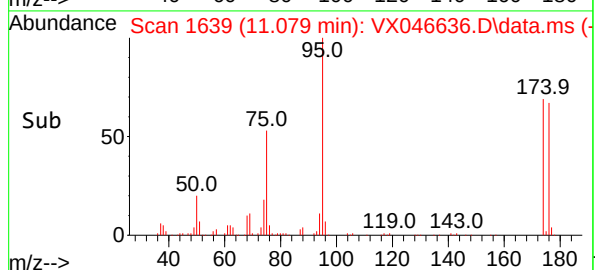
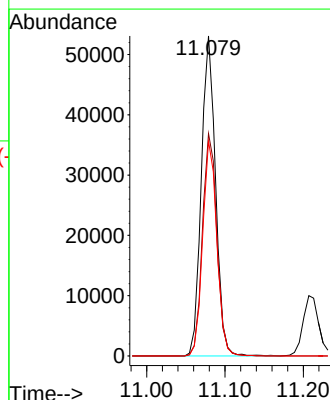
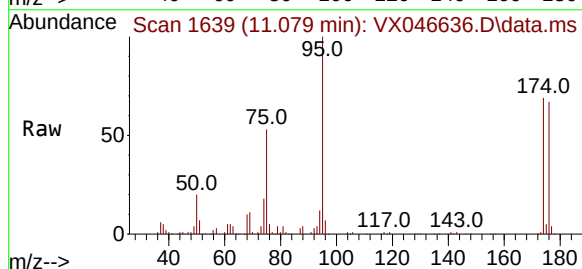
Manual Integrations
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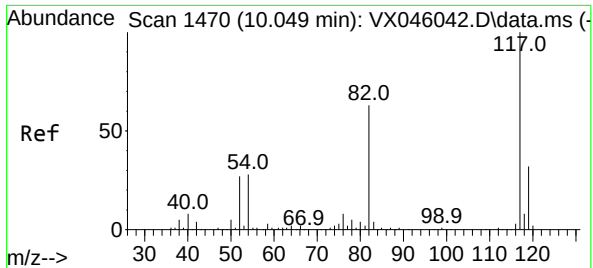
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#62
4-Bromofluorobenzene
Concen: 50.160 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

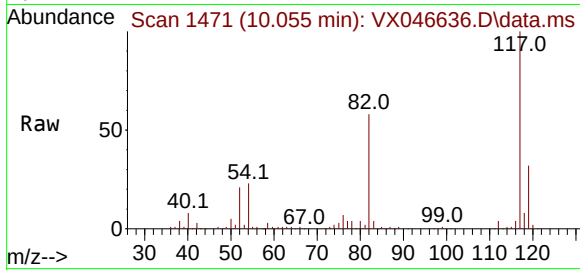
Tgt Ion: 95 Resp: 67056
Ion Ratio Lower Upper
95 100
174 70.2 0.0 135.8
176 66.6 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

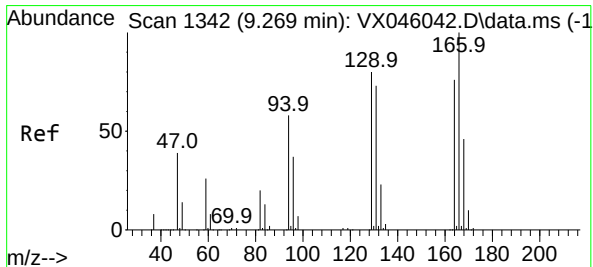
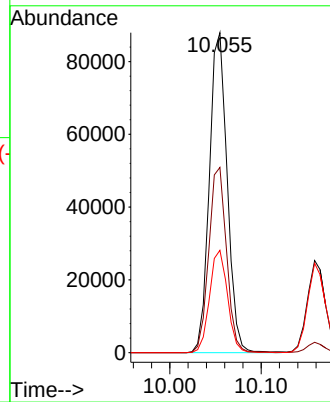
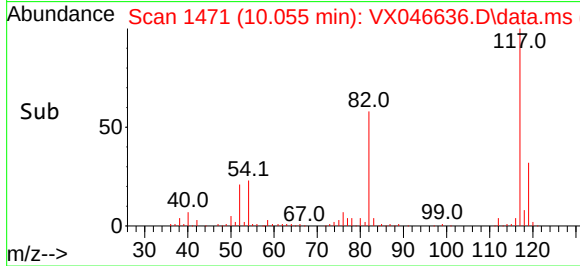
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 119180
Ion Ratio Lower Upper
117 100
82 57.9 50.6 76.0
119 32.0 25.8 38.6

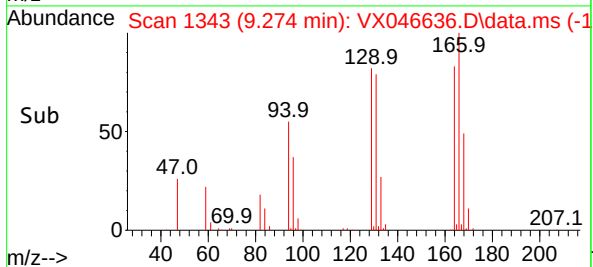
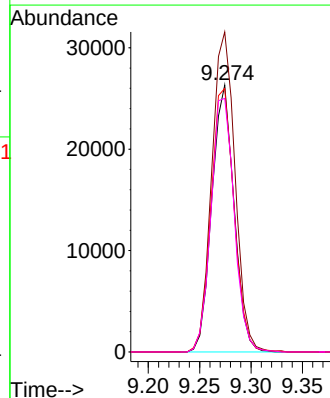
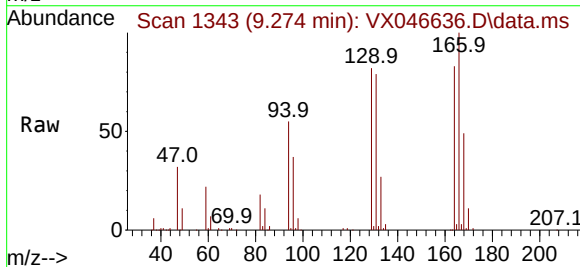
Manual Integrations
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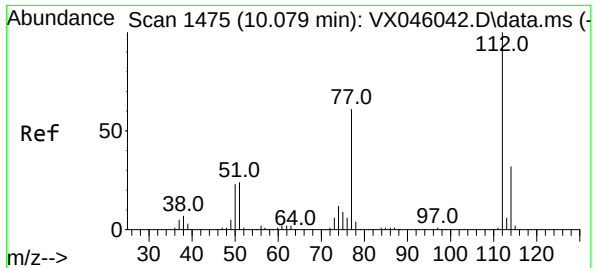
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#64
Tetrachloroethene
Concen: 49.417 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

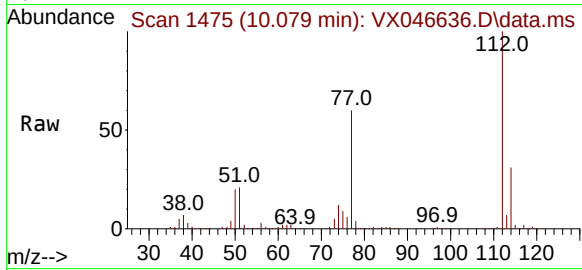
Tgt Ion:164 Resp: 39385
Ion Ratio Lower Upper
164 100
166 119.9 105.0 157.6
129 98.7 83.5 125.3
131 95.0 76.5 114.7





#65
Chlorobenzene
Concen: 51.980 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

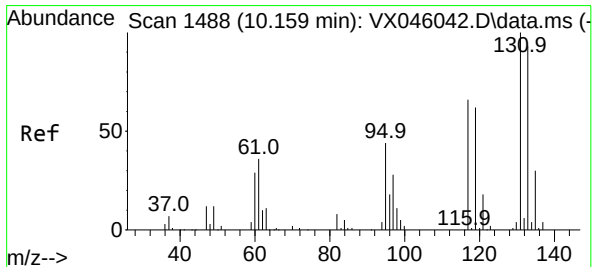
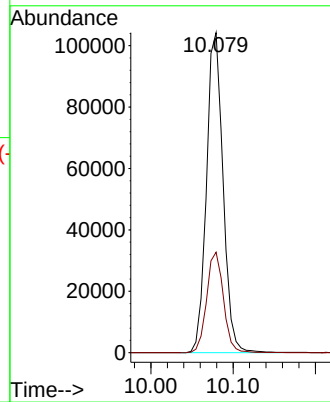
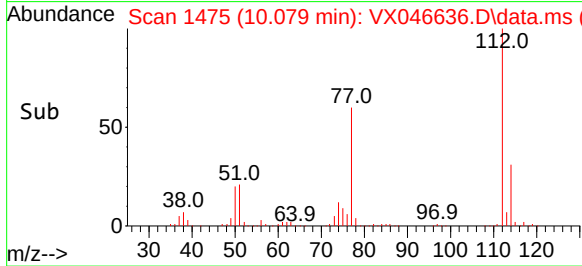
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



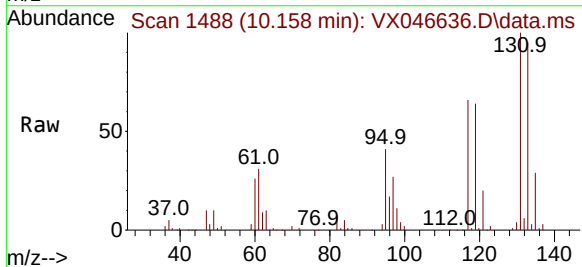
Tgt Ion:112 Resp: 14570
Ion Ratio Lower Upper
112 100
114 31.4 25.4 38.2

Manual Integrations
APPROVED

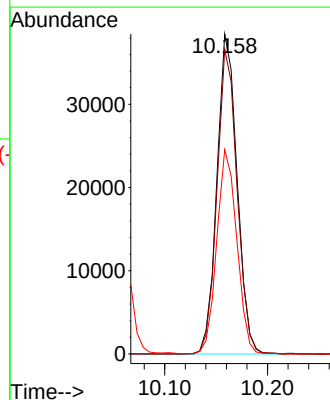
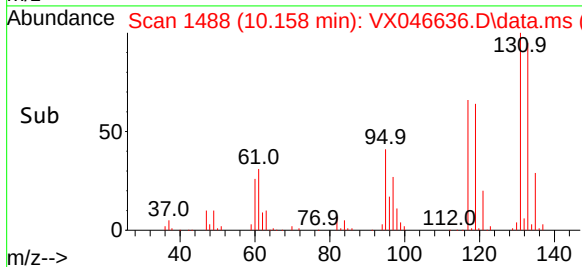
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

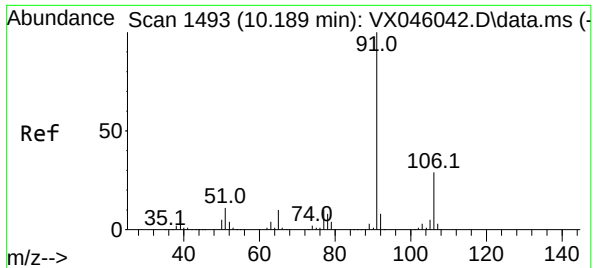


#66
1,1,1,2-Tetrachloroethane
Concen: 55.199 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



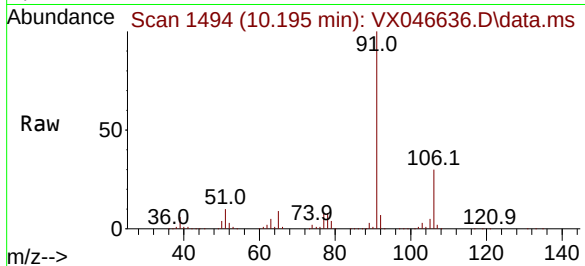
Tgt Ion:131 Resp: 52286
Ion Ratio Lower Upper
131 100
133 94.9 47.3 141.9
119 63.6 31.6 95.0





#67
Ethyl Benzene
Concen: 51.724 ug/l
RT: 10.195 min Scan# 1493
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

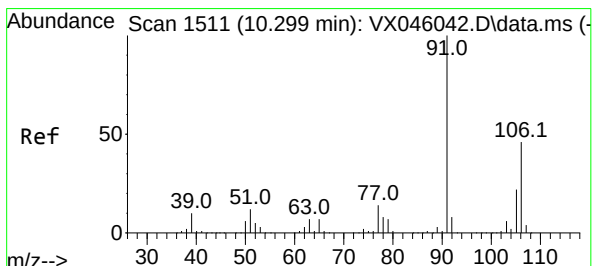
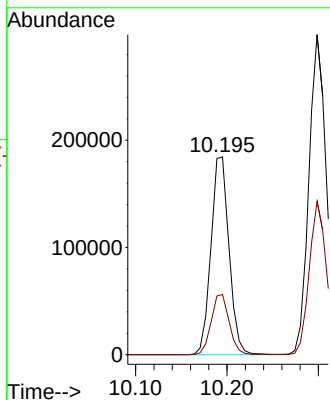
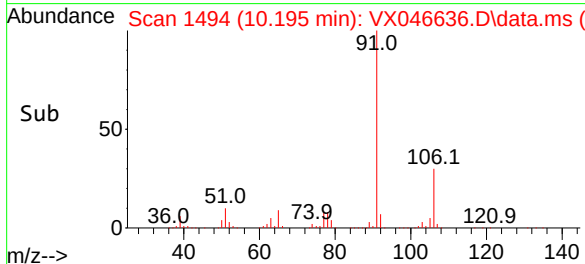
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 91 Resp: 253115
Ion Ratio Lower Upper
91 100
106 30.4 23.4 35.2

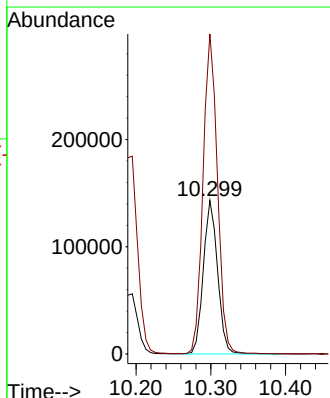
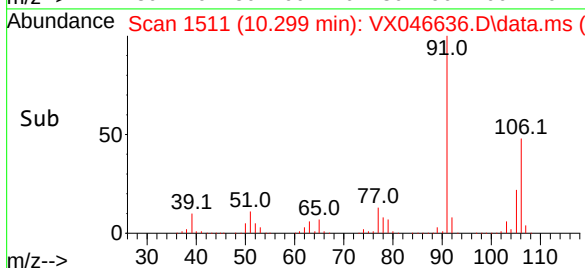
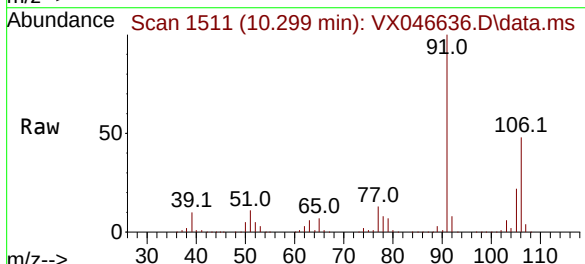
Manual Integrations
APPROVED

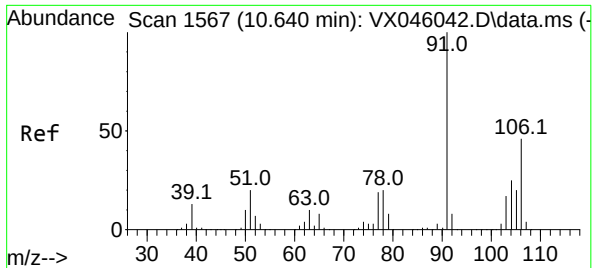
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#68
m/p-Xylenes
Concen: 106.345 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:106 Resp: 188777
Ion Ratio Lower Upper
106 100
91 210.7 171.2 256.8





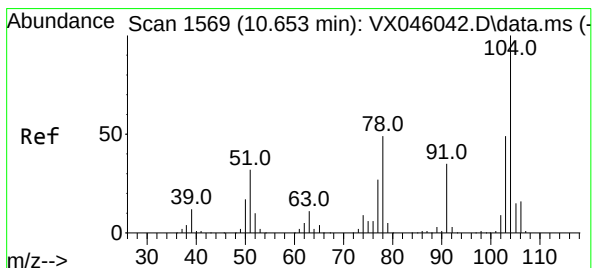
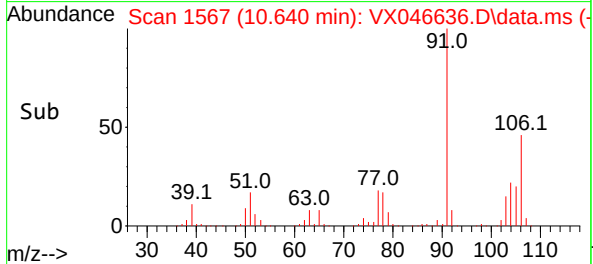
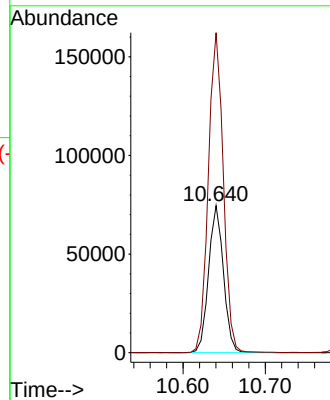
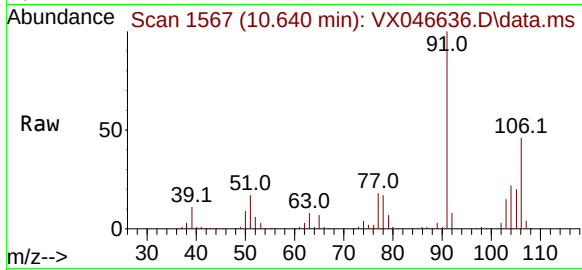
#69
o-Xylene
Concen: 54.541 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 93640
Ion Ratio Lower Upper
106 100
91 219.1 112.7 338.1

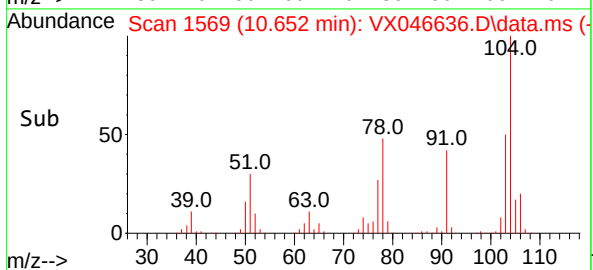
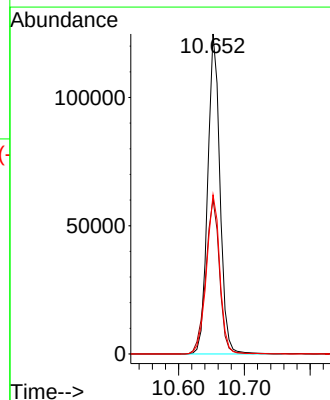
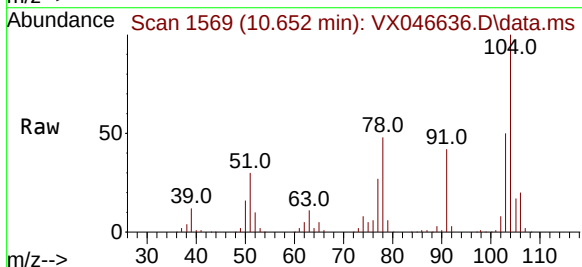
Manual Integrations
APPROVED

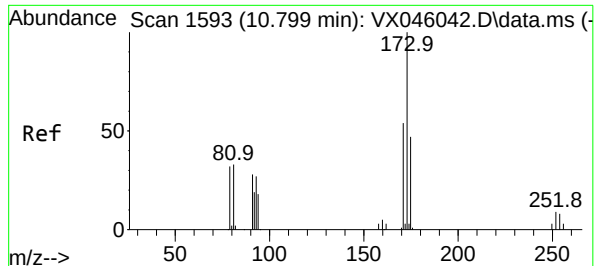
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#70
Styrene
Concen: 55.064 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

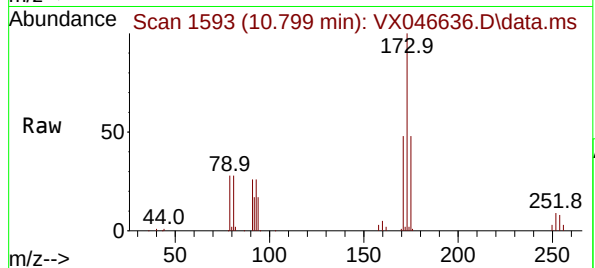
Tgt Ion:104 Resp: 161841
Ion Ratio Lower Upper
104 100
78 54.0 45.7 68.5
103 54.3 43.7 65.5





#71
Bromoform
Concen: 54.781 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

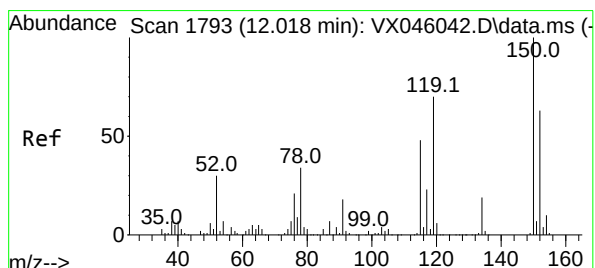
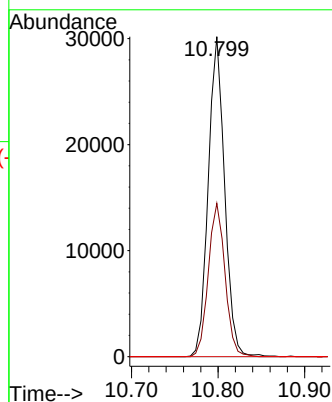
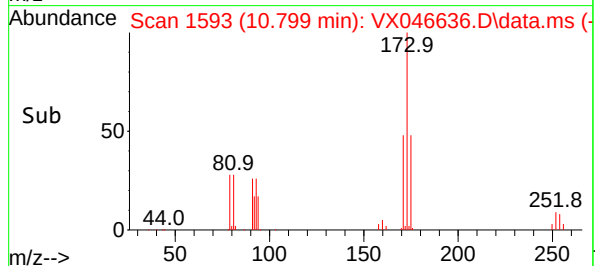
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:173 Resp: 3956
Ion Ratio Lower Upper
173 100
175 49.0 23.4 70.0
254 0.0 0.0 0.0

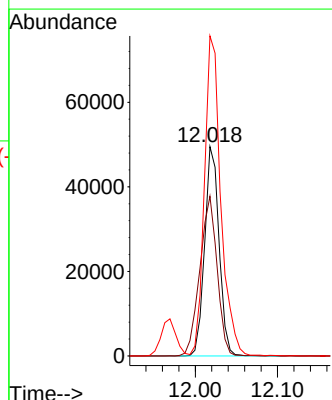
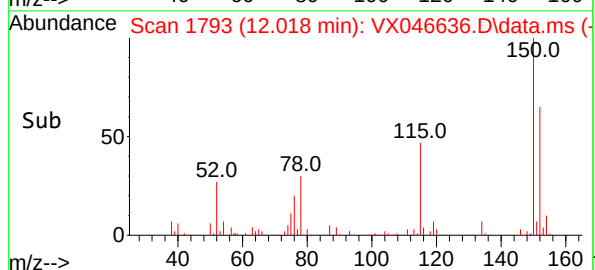
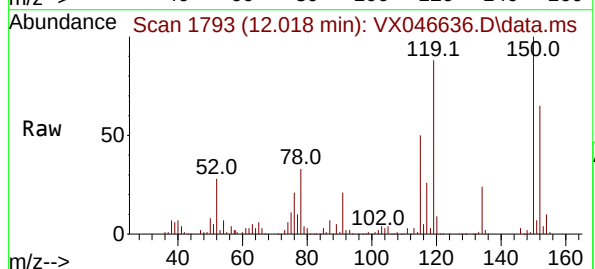
Manual Integrations
APPROVED

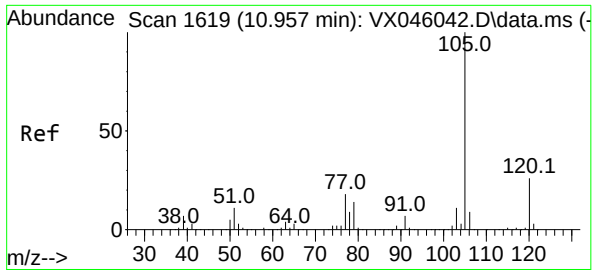
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:152 Resp: 60295
Ion Ratio Lower Upper
152 100
115 91.4 46.9 140.7
150 173.1 0.0 351.0





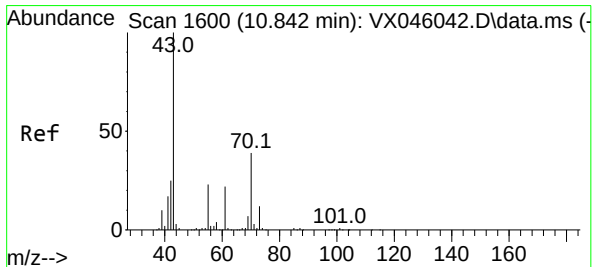
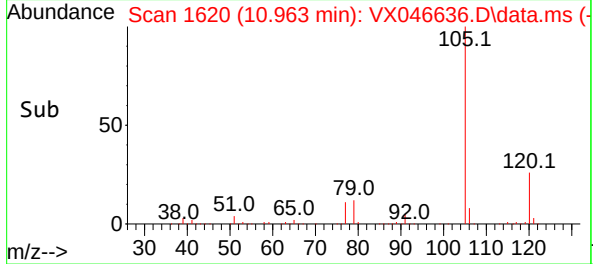
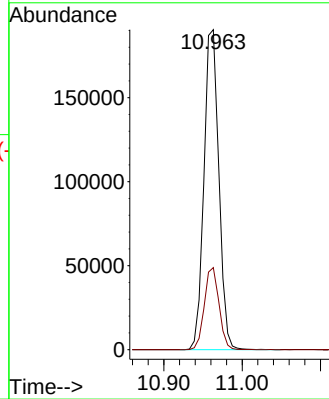
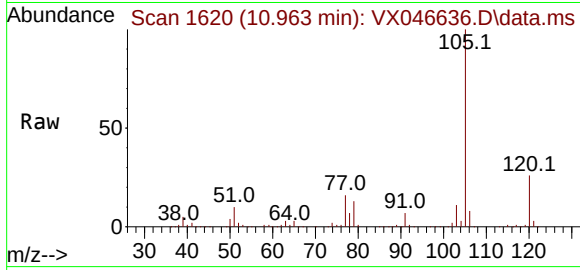
#73
Isopropylbenzene
Concen: 52.958 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:105 Resp: 251010
Ion Ratio Lower Upper
105 100
120 25.3 12.8 38.4

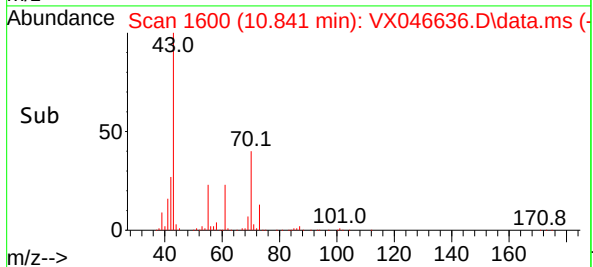
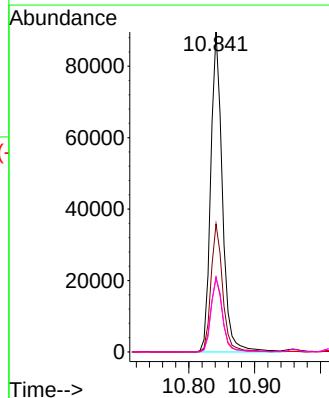
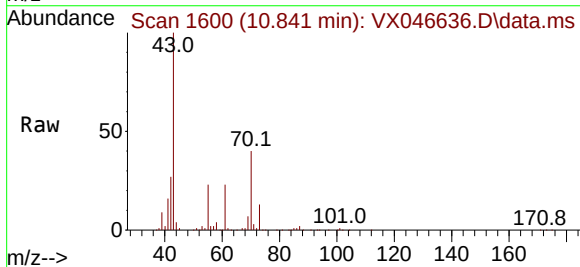
Manual Integrations
APPROVED

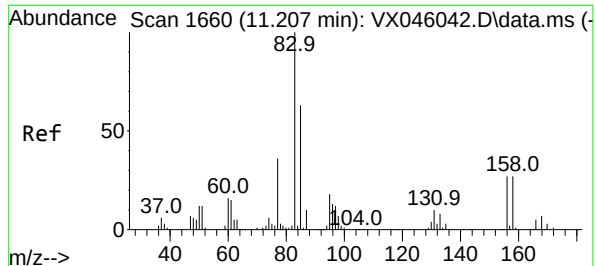
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#74
N-ethyl acetate
Concen: 53.026 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 43 Resp: 110680
Ion Ratio Lower Upper
43 100
70 40.1 30.9 46.3
55 23.4 18.7 28.1
61 23.2 17.1 25.7





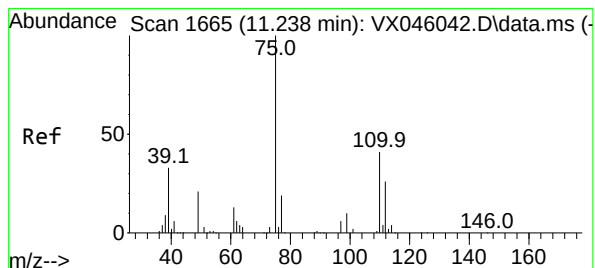
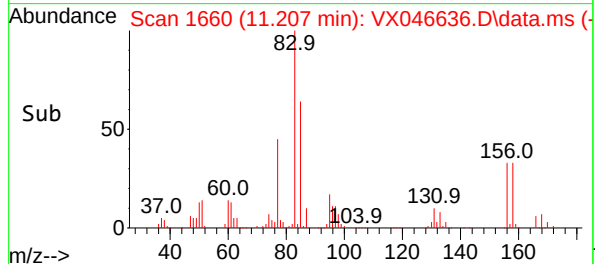
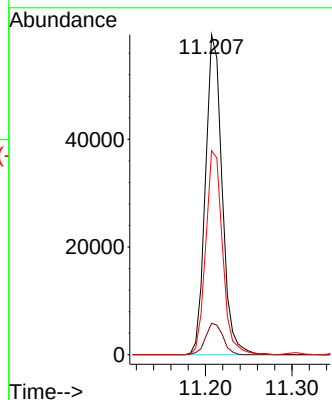
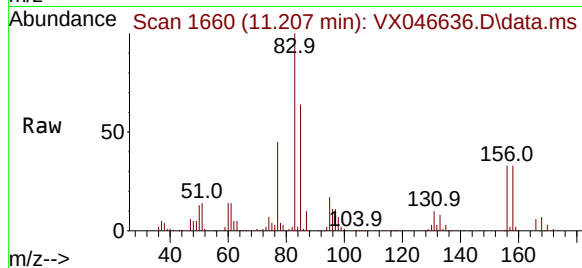
#75
1,1,2,2-Tetrachloroethane
Concen: 52.379 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 79460
Ion Ratio Lower Upper
83 100
131 10.2 5.0 14.9
85 64.1 31.9 95.7

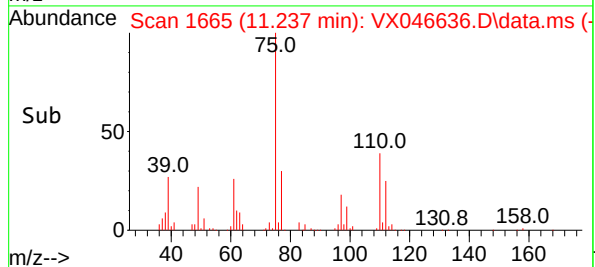
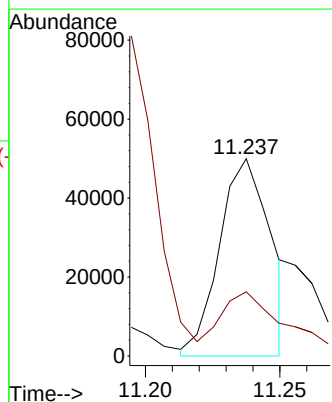
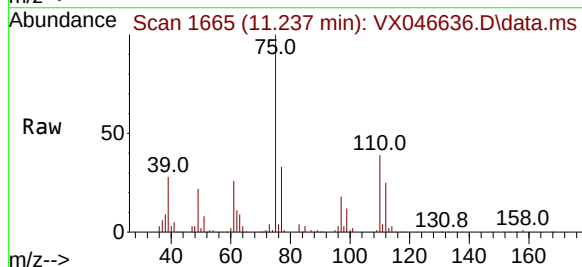
Manual Integrations
APPROVED

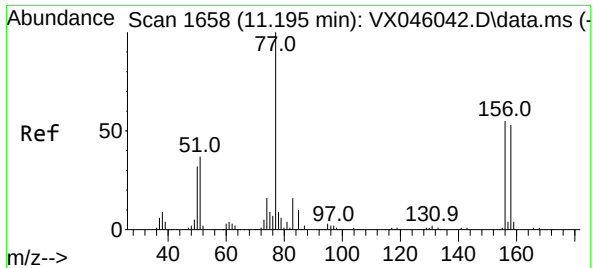
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#76
1,2,3-Trichloropropane
Concen: 51.509 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

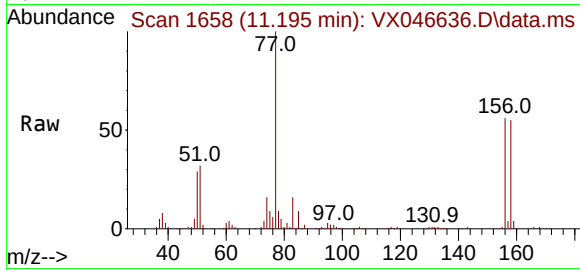
Tgt Ion: 75 Resp: 65783
Ion Ratio Lower Upper
75 100
77 42.1 20.5 61.5





#77
Bromobenzene
Concen: 52.592 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

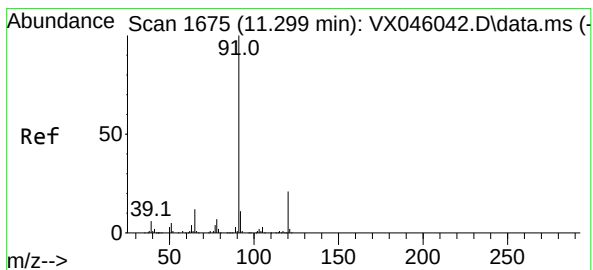
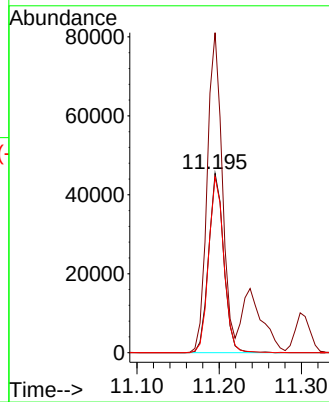
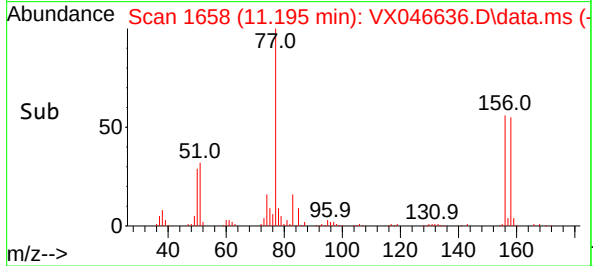
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:156 Resp: 57859
Ion Ratio Lower Upper
156 100
77 178.3 92.8 278.3
158 98.8 48.8 146.3

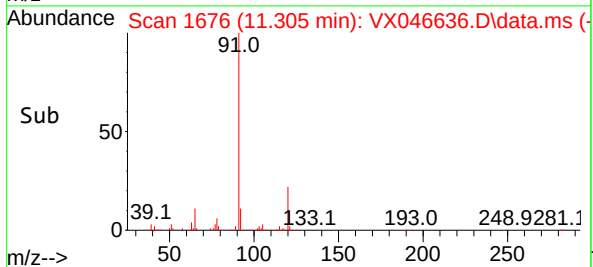
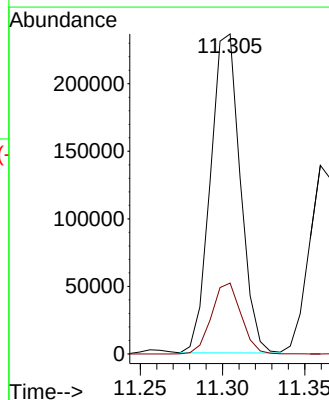
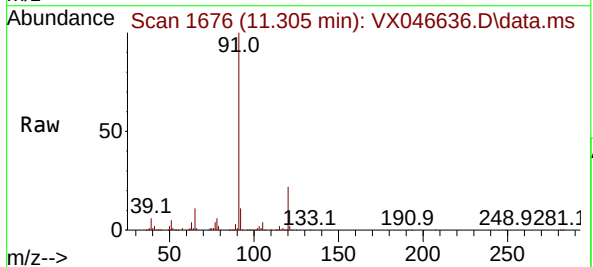
Manual Integrations
APPROVED

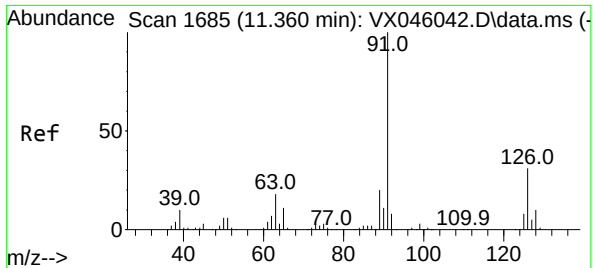
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#78
n-propylbenzene
Concen: 51.885 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion: 91 Resp: 297656
Ion Ratio Lower Upper
91 100
120 22.0 10.8 32.4





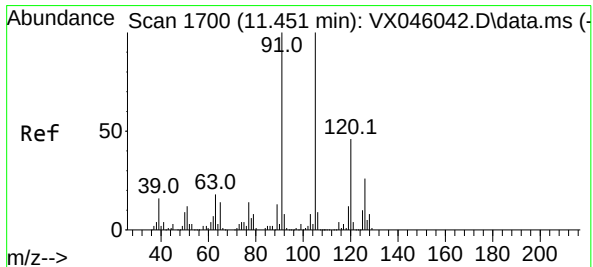
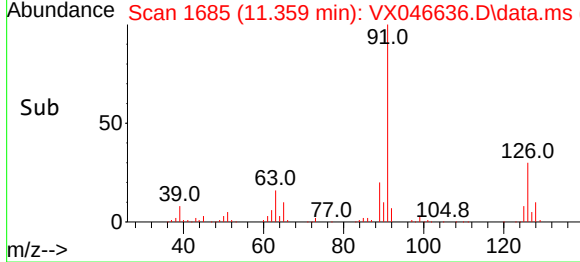
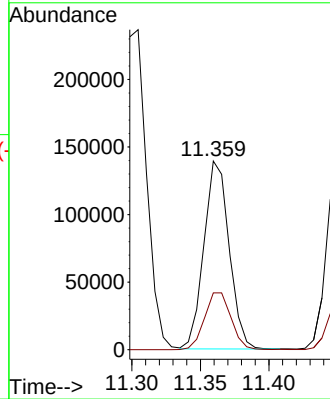
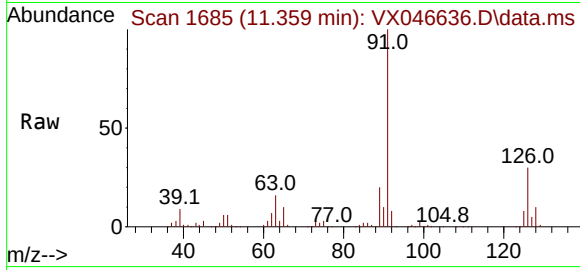
#79
2-Chlorotoluene
Concen: 51.487 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.007 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 17811
Ion Ratio Lower Upper
91 100
126 31.9 15.6 46.7

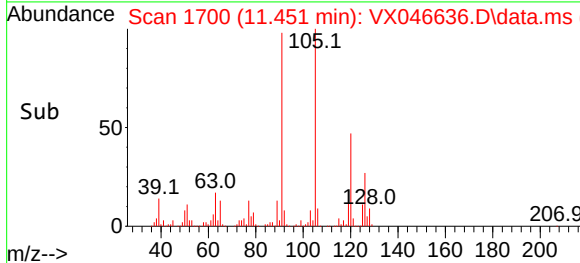
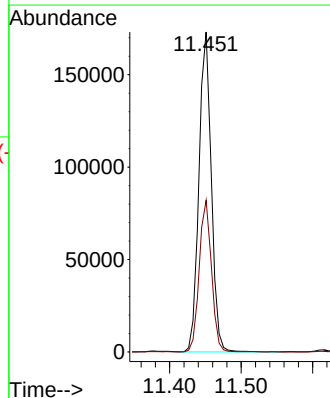
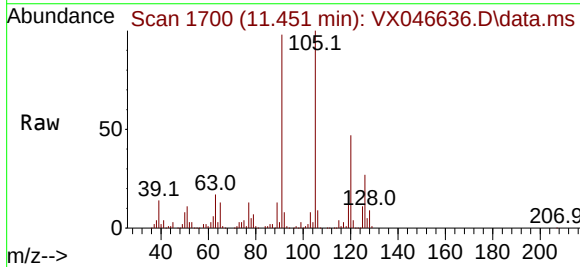
Manual Integrations
APPROVED

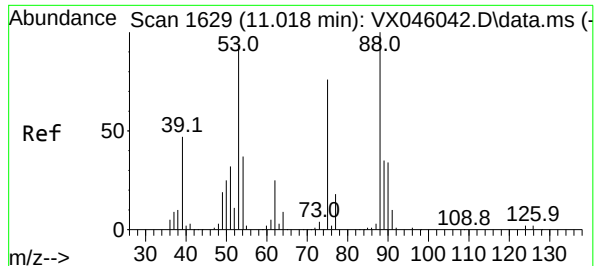
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#80
1,3,5-Trimethylbenzene
Concen: 52.565 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:105 Resp: 207616
Ion Ratio Lower Upper
105 100
120 47.1 23.1 69.2





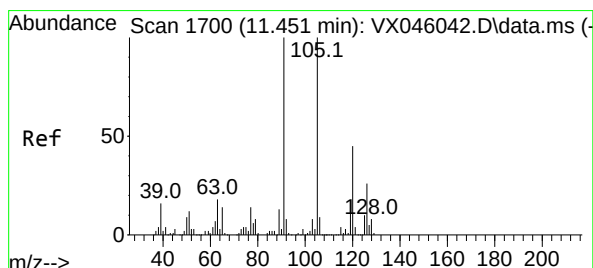
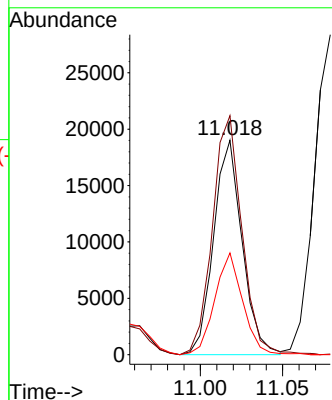
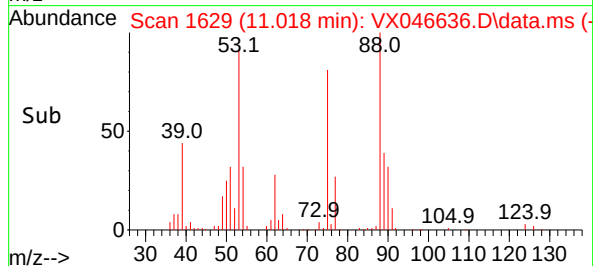
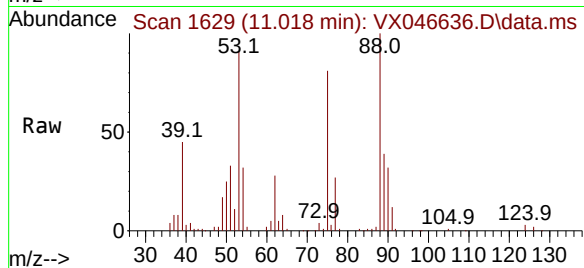
#81
trans-1,4-Dichloro-2-butene
Concen: 51.862 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 2296
Ion Ratio Lower Upper
75 100
53 115.0 100.5 150.7
89 46.4 37.0 55.6

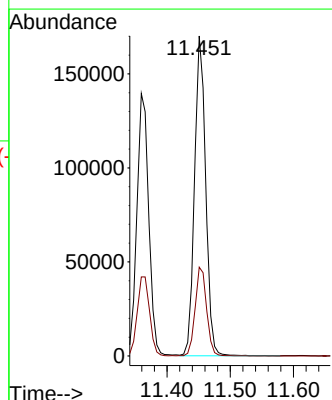
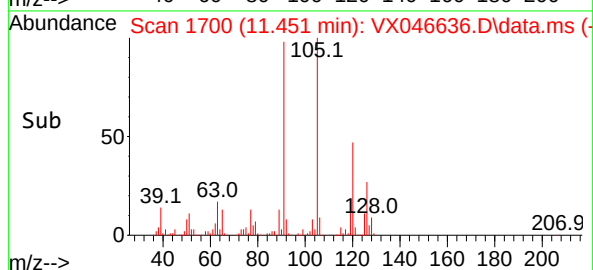
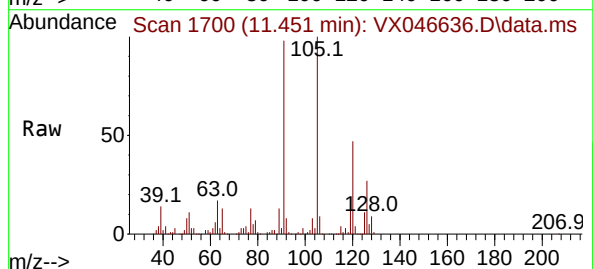
Manual Integrations
APPROVED

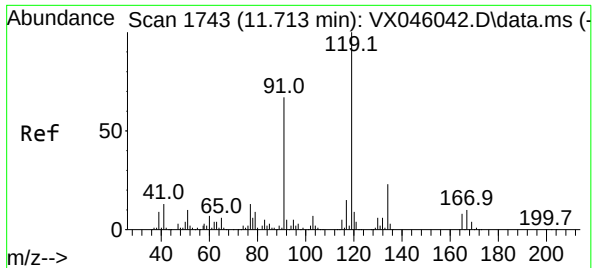
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#82
4-Chlorotoluene
Concen: 50.910 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

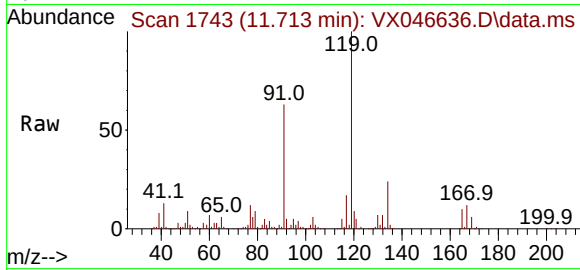
Tgt Ion: 91 Resp: 208757
Ion Ratio Lower Upper
91 100
126 28.6 13.3 39.8





#83
tert-Butylbenzene
Concen: 53.295 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

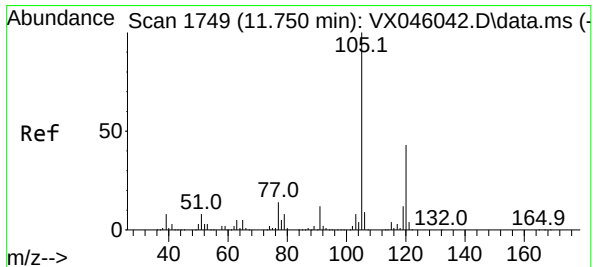
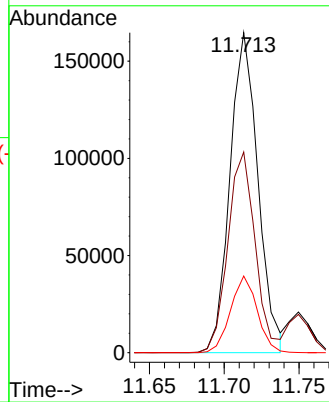
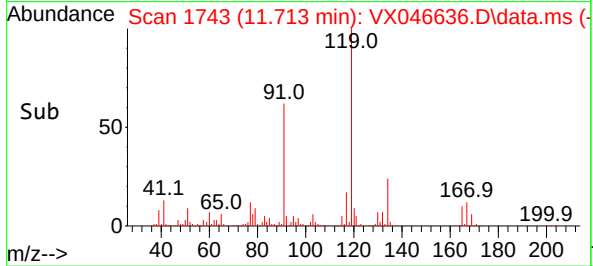
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



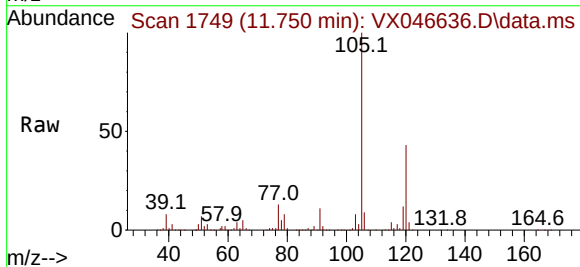
Tgt Ion:119 Resp: 214284
Ion Ratio Lower Upper
119 100
91 61.6 32.9 98.7
134 22.9 11.4 34.1

Manual Integrations
APPROVED

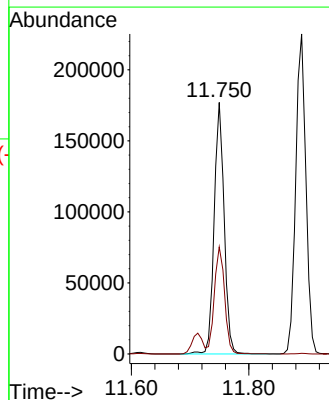
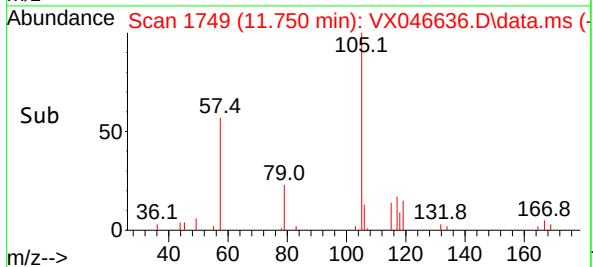
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

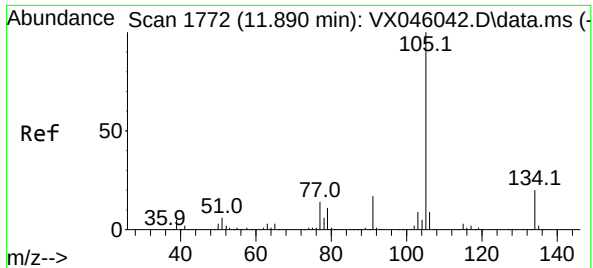


#84
1,2,4-Trimethylbenzene
Concen: 52.454 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



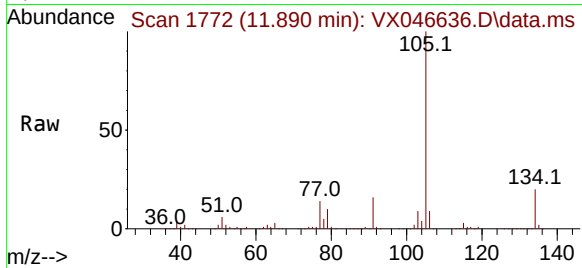
Tgt Ion:105 Resp: 209586
Ion Ratio Lower Upper
105 100
120 43.9 21.2 63.6





#85
 sec-Butylbenzene
 Concen: 52.573 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. -0.000 min
 Lab File: VX046636.D
 Acq: 11 Jun 2025 14:46

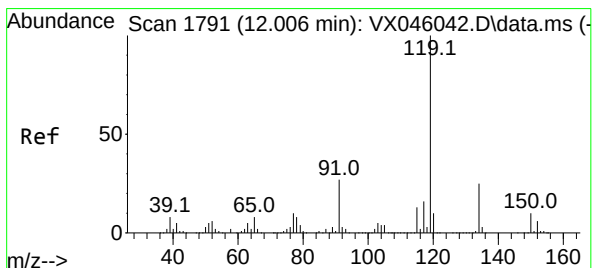
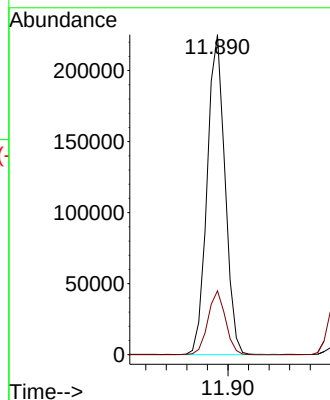
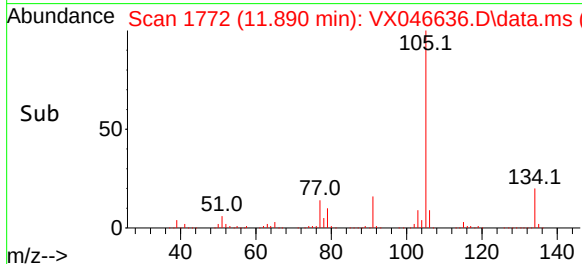
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



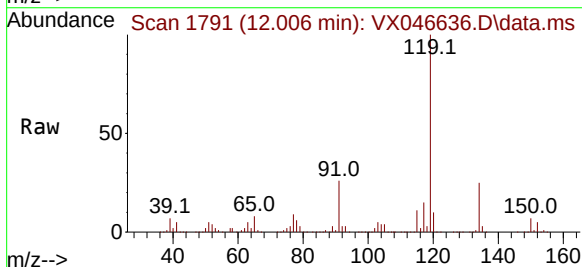
Tgt Ion:105 Resp: 27160
 Ion Ratio Lower Upper
 105 100
 134 19.6 9.7 29.1

Manual Integrations
 APPROVED

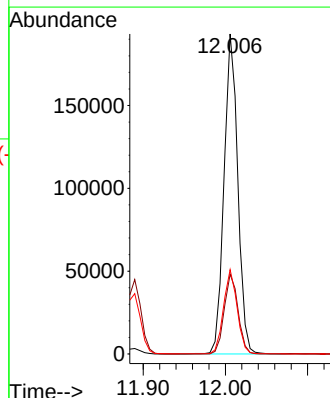
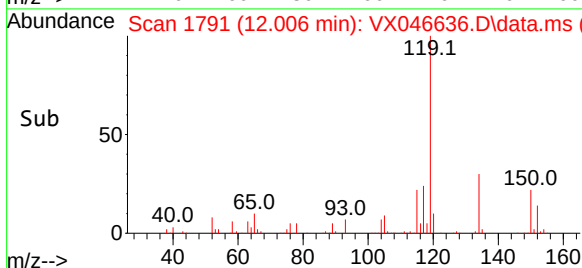
Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025

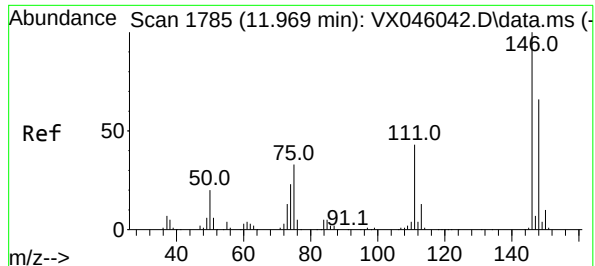


#86
 p-Isopropyltoluene
 Concen: 52.107 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX046636.D
 Acq: 11 Jun 2025 14:46



Tgt Ion:119 Resp: 224421
 Ion Ratio Lower Upper
 119 100
 134 25.0 12.5 37.5
 91 26.2 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 52.221 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:146 Resp: 11156

Ion Ratio Lower Upper

146 100

111 43.0 22.1 66.3

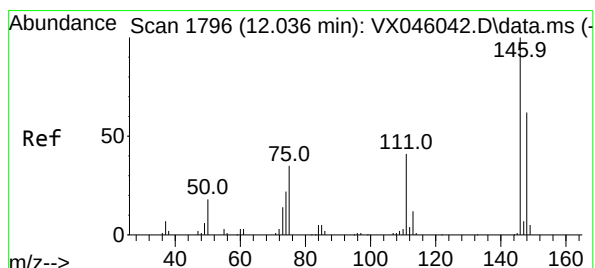
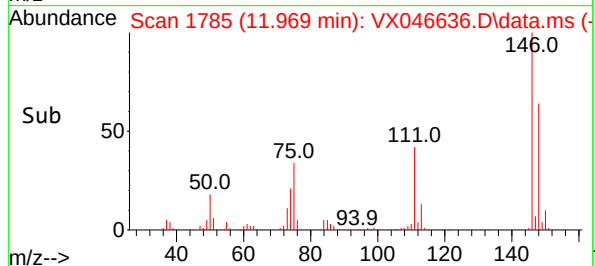
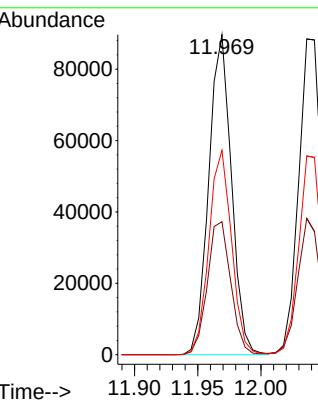
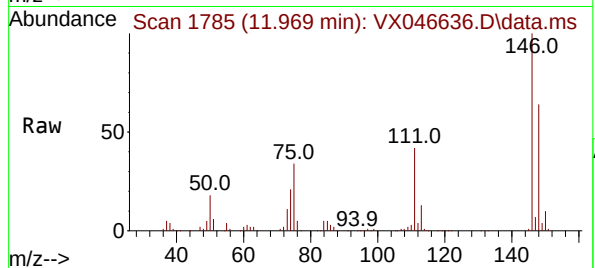
148 64.0 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 51.383 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

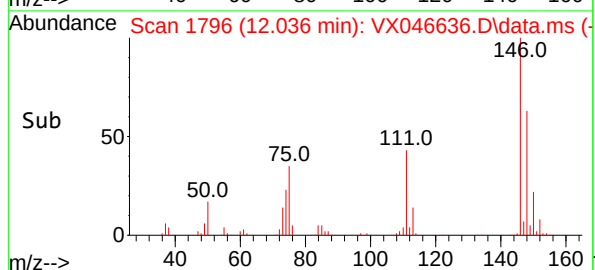
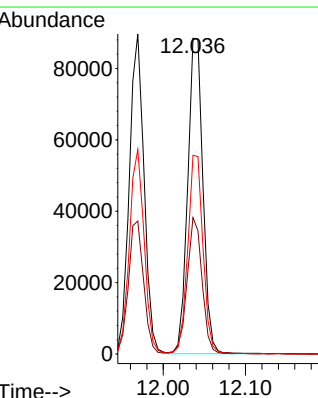
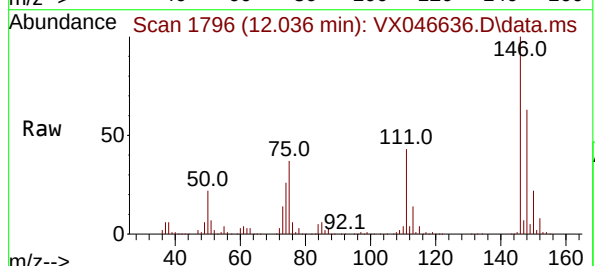
Tgt Ion:146 Resp: 113744

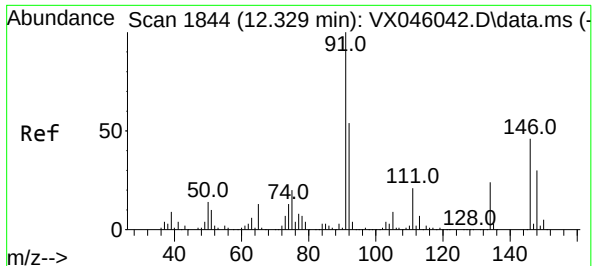
Ion Ratio Lower Upper

146 100

111 42.3 21.3 63.9

148 63.2 31.9 95.5





#89

n-Butylbenzene

Concen: 50.742 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046636.D

Acq: 11 Jun 2025 14:46

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 21461

Ion Ratio Lower Upper

91 100

92 54.6 26.9 80.7

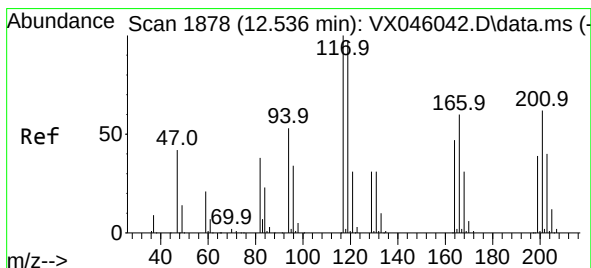
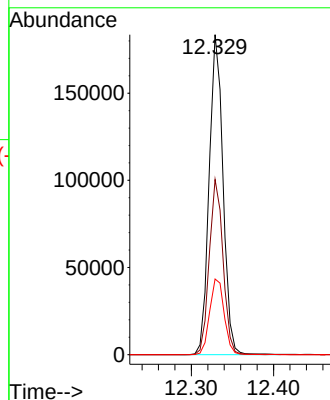
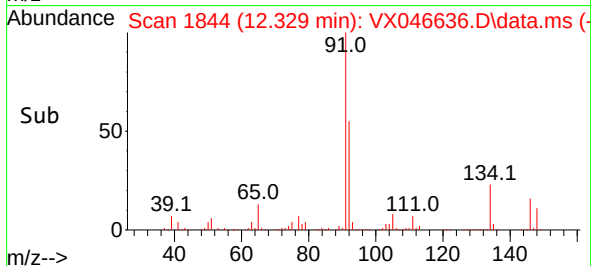
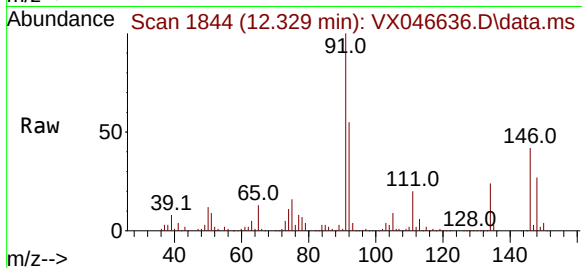
134 24.9 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#90

Hexachloroethane

Concen: 50.802 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046636.D

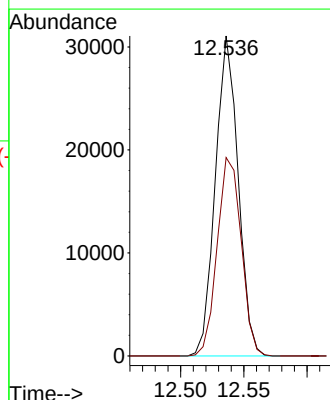
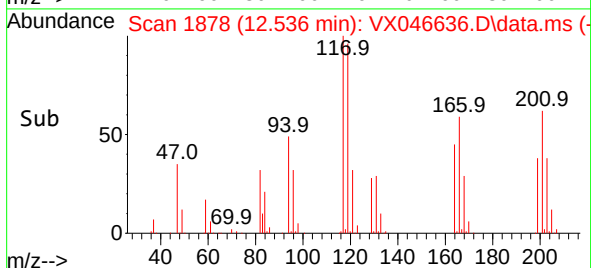
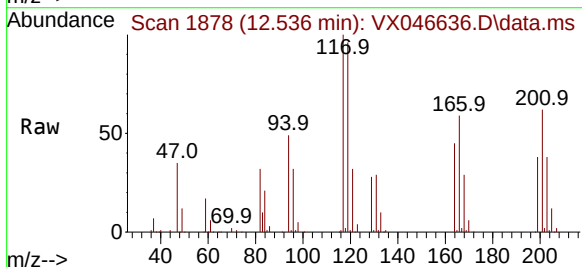
Acq: 11 Jun 2025 14:46

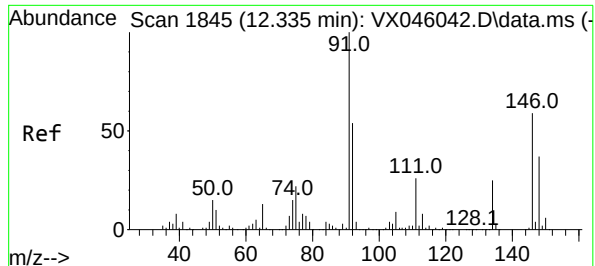
Tgt Ion:117 Resp: 38889

Ion Ratio Lower Upper

117 100

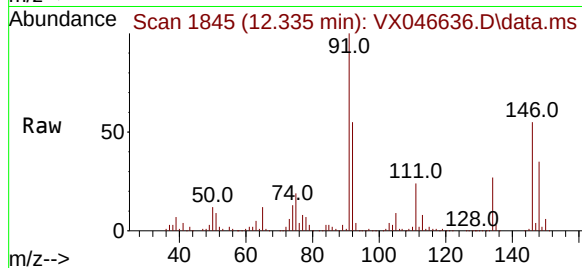
201 65.4 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 52.399 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

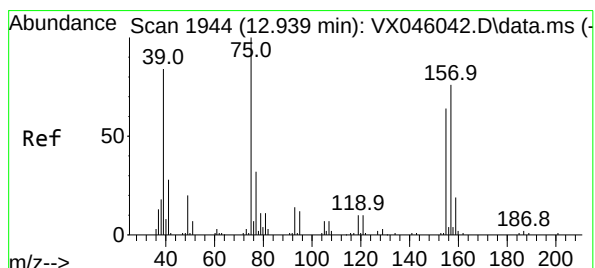
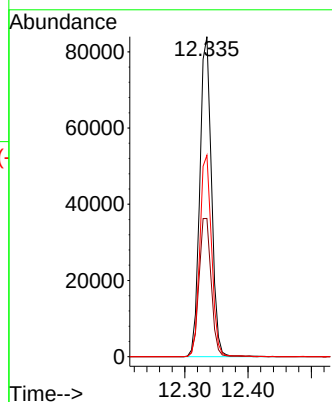
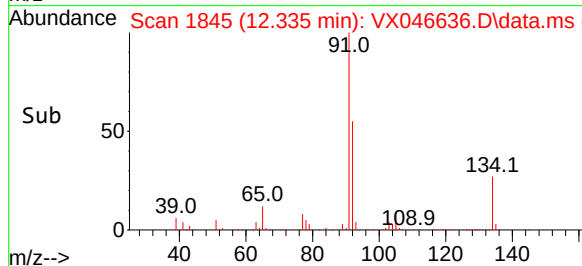
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 10805
Ion Ratio Lower Upper
146 100
111 45.0 22.4 67.3
148 63.5 31.6 94.8

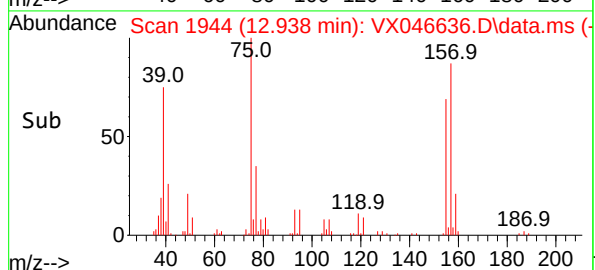
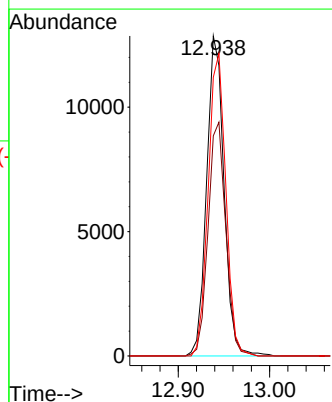
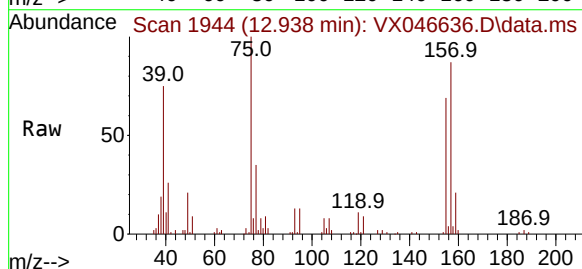
Manual Integrations
APPROVED

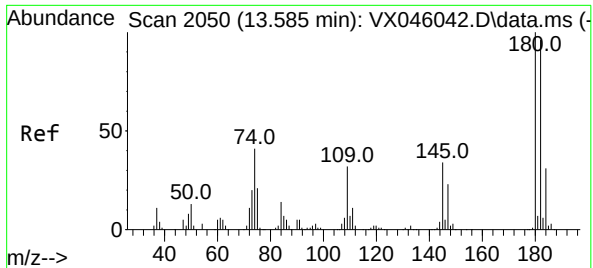
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.901 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

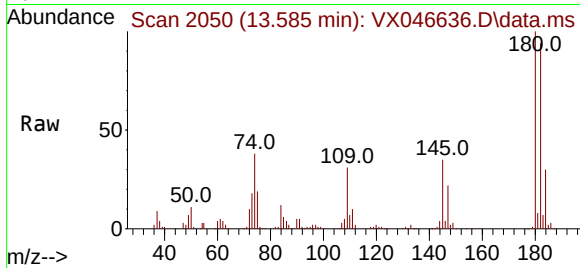
Tgt Ion: 75 Resp: 16953
Ion Ratio Lower Upper
75 100
155 74.4 34.9 104.8
157 95.7 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 52.453 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

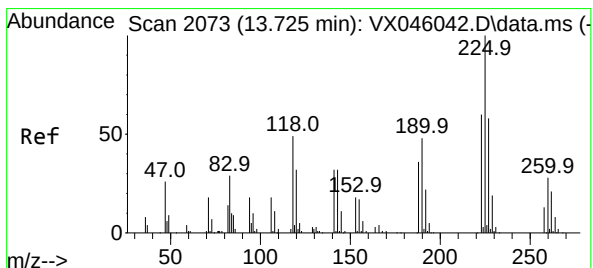
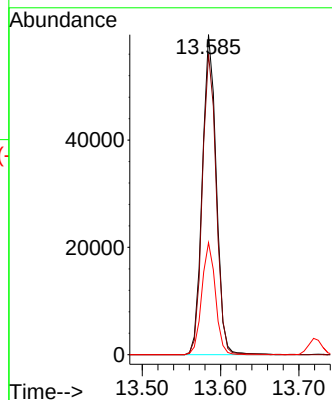
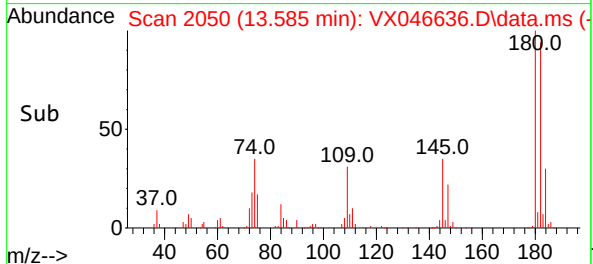
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



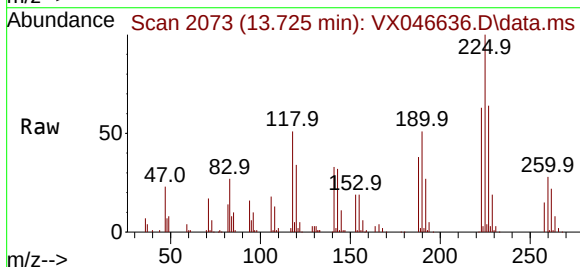
Tgt Ion:180 Resp: 73780
Ion Ratio Lower Upper
180 100
182 94.0 47.9 143.8
145 34.1 17.1 51.2

Manual Integrations
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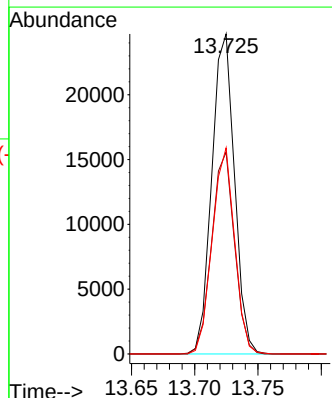
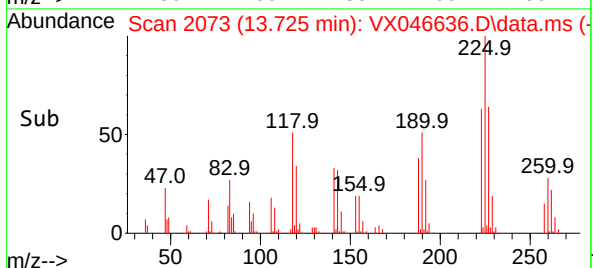
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

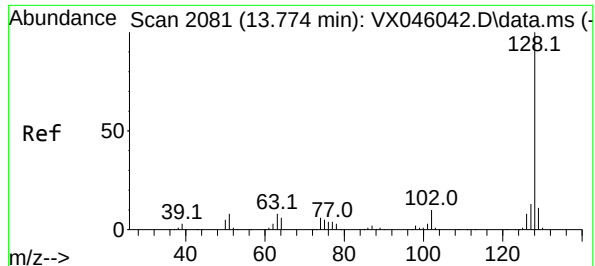


#94
Hexachlorobutadiene
Concen: 47.005 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46



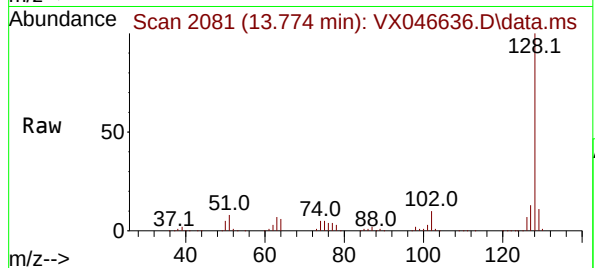
Tgt Ion:225 Resp: 30729
Ion Ratio Lower Upper
225 100
223 63.5 30.8 92.4
227 63.4 30.9 92.7





#95
Naphthalene
Concen: 53.781 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

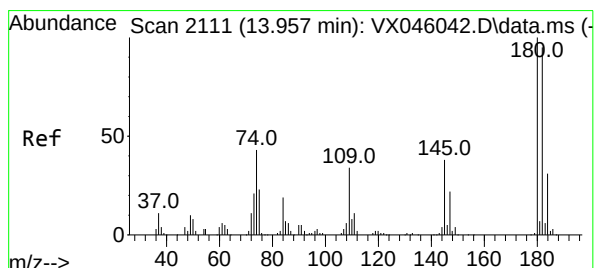
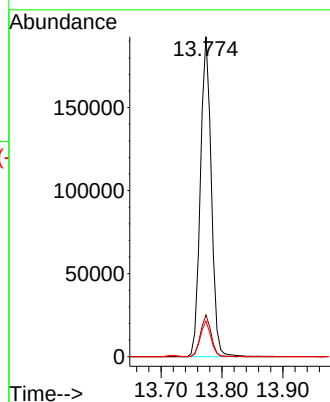
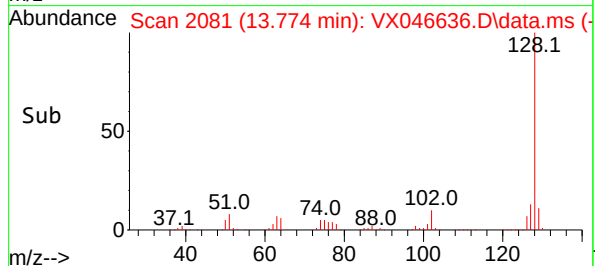
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 239917
Ion Ratio Lower Upper
128 100
127 12.7 10.4 15.6
129 10.8 8.6 13.0

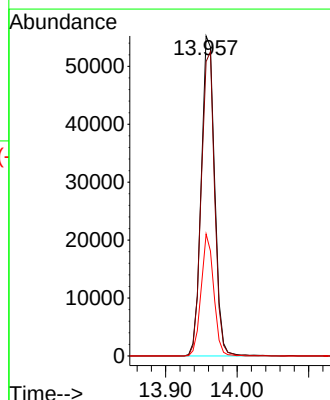
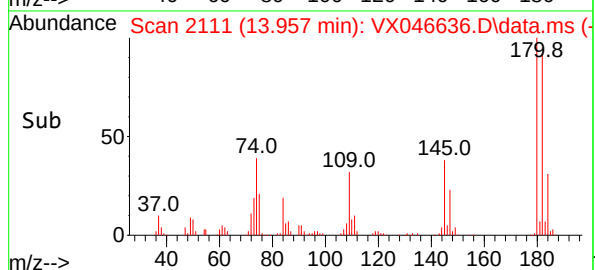
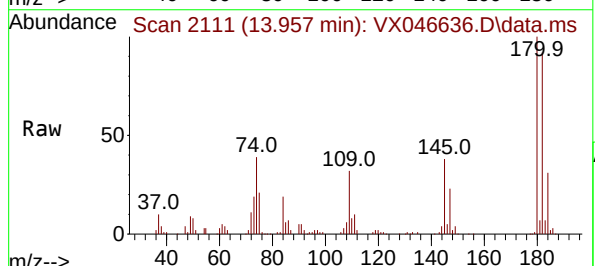
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.057 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.001 min
Lab File: VX046636.D
Acq: 11 Jun 2025 14:46

Tgt Ion:180 Resp: 72019
Ion Ratio Lower Upper
180 100
182 94.6 47.8 143.3
145 35.7 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	86	0.00
2 T	Dichlorodifluoromethane	0.694	0.640	7.8	85	0.00
3 P	Chloromethane	0.632	0.553	12.5	83	0.00
4 C	Vinyl Chloride	0.630	0.569	9.7#	82	0.00
5 T	Bromomethane	0.382	0.214	44.0#	46#	0.00
6 T	Chloroethane	0.409	0.331	19.1	76	0.00
7 T	Trichlorofluoromethane	1.042	0.890	14.6	75	0.00
8 T	Diethyl Ether	0.368	0.332	9.8	80	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.657	0.667	-1.5	90	0.00
10 T	Methyl Iodide	0.712	0.571	19.8	69	0.00
11 T	Tert butyl alcohol	0.099	0.087	12.1	77	0.00
12 CM	1,1-Dichloroethene	0.594	0.596	-0.3#	90	0.00
13 T	Acrolein	0.103	0.156	-51.5#	120	0.00
14 T	Allyl chloride	1.166	1.177	-0.9	90	0.00
15 T	Acrylonitrile	0.373	0.388	-4.0	88	-0.01
16 T	Acetone	0.381	0.335	12.1	85	0.00
17 T	Carbon Disulfide	1.481	1.215	18.0	86	0.00
18 T	Methyl Acetate	1.060	1.172	-10.6	89	0.00
19 T	Methyl tert-butyl Ether	2.077	2.240	-7.8	91	-0.01
20 T	Methylene Chloride	0.714	0.716	-0.3	93	0.00
21 T	trans-1,2-Dichloroethene	0.628	0.624	0.6	92	0.00
22 T	Diisopropyl ether	2.298	2.474	-7.7	91	-0.01
23 T	Vinyl Acetate	1.775	1.886	-6.3	89	-0.01
24 P	1,1-Dichloroethane	1.281	1.325	-3.4	90	-0.01
25 T	2-Butanone	0.495	0.486	1.8	83	-0.01
26 T	2,2-Dichloropropane	0.951	0.988	-3.9	88	0.00
27 T	cis-1,2-Dichloroethene	0.773	0.799	-3.4	93	-0.01
28 T	Bromochloromethane	0.611	0.569	6.9	83	-0.01
29 T	Tetrahydrofuran	0.313	0.301	3.8	82	0.00
30 C	Chloroform	1.342	1.434	-6.9#	94	-0.01
31 T	Cyclohexane	1.034	1.020	1.4	88	-0.01
32 T	1,1,1-Trichloroethane	1.148	1.186	-3.3	89	0.00
33 S	1,2-Dichloroethane-d4	0.890	0.830	6.7	82	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	85	-0.01
35 S	Dibromofluoromethane	0.368	0.382	-3.8	89	-0.01
36 T	1,1-Dichloropropene	0.525	0.501	4.6	88	-0.02
37 T	Ethyl Acetate	0.513	0.546	-6.4	84	-0.02
38 T	Carbon Tetrachloride	0.588	0.579	1.5	88	-0.01
39 T	Methylcyclohexane	0.620	0.597	3.7	89	0.00
40 TM	Benzene	1.479	1.534	-3.7	92	-0.01
41 T	Methacrylonitrile	0.318	0.328	-3.1	87	-0.01
42 TM	1,2-Dichloroethane	0.615	0.621	-1.0	87	0.00
43 T	Isopropyl Acetate	0.894	0.924	-3.4	85	-0.01
44 TM	Trichloroethene	0.376	0.379	-0.8	92	0.00
45 C	1,2-Dichloropropane	0.382	0.411	-7.6#	92	-0.01
46 T	Dibromomethane	0.287	0.299	-4.2	91	0.00
47 T	Bromodichloromethane	0.590	0.647	-9.7	92	0.00
48 T	Methyl methacrylate	0.460	0.484	-5.2	86	-0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	0.006	0.006	0.0	77	-0.01
50 S	Toluene-d8	1.212	1.219	-0.6	88	0.00
51 T	4-Methyl-2-Pentanone	0.568	0.600	-5.6	86	0.00
52 CM	Toluene	0.908	0.958	-5.5#	92	0.00
53 T	t-1,3-Dichloropropene	0.529	0.576	-8.9	91	0.00
54 T	cis-1,3-Dichloropropene	0.589	0.630	-7.0	91	0.00
55 T	1,1,2-Trichloroethane	0.365	0.403	-10.4	94	0.00
56 T	Ethyl methacrylate	0.561	0.629	-12.1	92	0.00
57 T	1,3-Dichloropropane	0.644	0.676	-5.0	91	0.00
58 T	2-Chloroethyl Vinyl ether	0.306	0.318	-3.9	86	0.00
59 T	2-Hexanone	0.407	0.422	-3.7	84	0.00
60 T	Dibromochloromethane	0.429	0.472	-10.0	93	0.00
61 T	1,2-Dibromoethane	0.380	0.396	-4.2	91	0.00
62 S	4-Bromofluorobenzene	0.502	0.503	-0.2	87	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	87	0.00
64 T	Tetrachloroethene	0.334	0.330	1.2	93	0.00
65 PM	Chlorobenzene	1.176	1.223	-4.0	95	0.00
66 T	1,1,1,2-Tetrachloroethane	0.397	0.439	-10.6	95	0.00
67 C	Ethyl Benzene	2.053	2.124	-3.5#	92	0.00
68 T	m/p-Xylenes	0.745	0.792	-6.3	94	0.00
69 T	o-Xylene	0.720	0.786	-9.2	96	0.00
70 T	Styrene	1.233	1.358	-10.1	94	0.00
71 P	Bromoform	0.303	0.332	-9.6	93	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73 T	Isopropylbenzene	3.930	4.163	-5.9	93	0.00
74 T	N-amyl acetate	1.731	1.836	-6.1	89	0.00
75 P	1,1,2,2-Tetrachloroethane	1.258	1.318	-4.8	92	0.00
76 T	1,2,3-Trichloropropane	1.059	1.091	-3.0	91	0.00
77 T	Bromobenzene	0.912	0.960	-5.3	95	0.00
78 T	n-propylbenzene	4.757	4.937	-3.8	92	0.00
79 T	2-Chlorotoluene	2.869	2.954	-3.0	93	0.00
80 T	1,3,5-Trimethylbenzene	3.275	3.443	-5.1	93	0.00
81 T	trans-1,4-Dichloro-2-butene	0.367	0.381	-3.8	90	0.00
82 T	4-Chlorotoluene	3.400	3.462	-1.8	92	0.00
83 T	tert-Butylbenzene	3.334	3.554	-6.6	95	0.00
84 T	1,2,4-Trimethylbenzene	3.313	3.476	-4.9	94	0.00
85 T	sec-Butylbenzene	4.284	4.505	-5.2	95	0.00
86 T	p-Isopropyltoluene	3.572	3.722	-4.2	94	0.00
87 T	1,3-Dichlorobenzene	1.772	1.850	-4.4	96	0.00
88 T	1,4-Dichlorobenzene	1.836	1.886	-2.7	99	0.00
89 T	n-Butylbenzene	3.507	3.559	-1.5	93	0.00
90 T	Hexachloroethane	0.635	0.645	-1.6	93	0.00
91 T	1,2-Dichlorobenzene	1.710	1.792	-4.8	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.282	0.281	0.4	86	0.00
93 T	1,2,4-Trichlorobenzene	1.167	1.224	-4.9	100	0.00
94 T	Hexachlorobutadiene	0.542	0.510	5.9	89	0.00
95 T	Naphthalene	3.699	3.979	-7.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1.170	1.194	-2.1	96	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	86	0.00
2 T	Dichlorodifluoromethane	50.000	46.135	7.7	85	0.00
3 P	Chloromethane	50.000	43.769	12.5	83	0.00
4 C	Vinyl Chloride	50.000	45.171	9.7#	82	0.00
5 T	Bromomethane	50.000	27.971	44.1#	46	0.00
6 T	Chloroethane	50.000	40.448	19.1	76	0.00
7 T	Trichlorofluoromethane	50.000	42.711	14.6	75	0.00
8 T	Diethyl Ether	50.000	45.060	9.9	80	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	50.803	-1.6	90	0.00
10 T	Methyl Iodide	50.000	40.090	19.8	69	0.00
11 T	Tert butyl alcohol	250.000	220.908	11.6	77	0.00
12 CM	1,1-Dichloroethene	50.000	50.196	-0.4#	90	0.00
13 T	Acrolein	250.000	318.023	-27.2#	120	0.00
14 T	Allyl chloride	50.000	50.488	-1.0	90	0.00
15 T	Acrylonitrile	250.000	260.120	-4.0	88	-0.01
16 T	Acetone	250.000	239.623	4.2	85	0.00
17 T	Carbon Disulfide	50.000	48.207	3.6	86	0.00
18 T	Methyl Acetate	50.000	55.283	-10.6	89	0.00
19 T	Methyl tert-butyl Ether	50.000	53.911	-7.8	91	-0.01
20 T	Methylene Chloride	50.000	50.139	-0.3	93	0.00
21 T	trans-1,2-Dichloroethene	50.000	49.675	0.7	92	0.00
22 T	Diisopropyl ether	50.000	53.823	-7.6	91	-0.01
23 T	Vinyl Acetate	250.000	265.747	-6.3	89	-0.01
24 P	1,1-Dichloroethane	50.000	51.716	-3.4	90	-0.01
25 T	2-Butanone	250.000	245.374	1.9	83	-0.01
26 T	2,2-Dichloropropane	50.000	51.935	-3.9	88	0.00
27 T	cis-1,2-Dichloroethene	50.000	51.635	-3.3	93	-0.01
28 T	Bromochloromethane	50.000	46.537	6.9	83	-0.01
29 T	Tetrahydrofuran	250.000	240.984	3.6	82	0.00
30 C	Chloroform	50.000	53.424	-6.8#	94	-0.01
31 T	Cyclohexane	50.000	49.332	1.3	88	-0.01
32 T	1,1,1-Trichloroethane	50.000	51.668	-3.3	89	0.00
33 S	1,2-Dichloroethane-d4	50.000	46.653	6.7	82	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	85	-0.01
35 S	Dibromofluoromethane	50.000	51.915	-3.8	89	-0.01
36 T	1,1-Dichloropropene	50.000	47.660	4.7	88	-0.02
37 T	Ethyl Acetate	50.000	53.299	-6.6	84	-0.02
38 T	Carbon Tetrachloride	50.000	49.184	1.6	88	-0.01
39 T	Methylcyclohexane	50.000	48.113	3.8	89	0.00
40 TM	Benzene	50.000	51.876	-3.8	92	-0.01
41 T	Methacrylonitrile	50.000	51.538	-3.1	87	-0.01
42 TM	1,2-Dichloroethane	50.000	50.505	-1.0	87	0.00
43 T	Isopropyl Acetate	50.000	51.690	-3.4	85	-0.01
44 TM	Trichloroethene	50.000	50.496	-1.0	92	0.00
45 C	1,2-Dichloropropane	50.000	53.877	-7.8#	92	-0.01
46 T	Dibromomethane	50.000	52.002	-4.0	91	0.00
47 T	Bromodichloromethane	50.000	54.764	-9.5	92	0.00
48 T	Methyl methacrylate	50.000	52.623	-5.2	86	-0.01

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046636.D
 Acq On : 11 Jun 2025 14:46
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	936.440	6.4	77	-0.01
50 S	Toluene-d8	50.000	50.297	-0.6	88	0.00
51 T	4-Methyl-2-Pentanone	250.000	263.985	-5.6	86	0.00
52 CM	Toluene	50.000	52.732	-5.5#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	54.455	-8.9	91	0.00
54 T	cis-1,3-Dichloropropene	50.000	53.504	-7.0	91	0.00
55 T	1,1,2-Trichloroethane	50.000	55.318	-10.6	94	0.00
56 T	Ethyl methacrylate	50.000	56.009	-12.0	92	0.00
57 T	1,3-Dichloropropane	50.000	52.422	-4.8	91	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	260.437	-4.2	86	0.00
59 T	2-Hexanone	250.000	259.182	-3.7	84	0.00
60 T	Dibromochloromethane	50.000	55.050	-10.1	93	0.00
61 T	1,2-Dibromoethane	50.000	52.090	-4.2	91	0.00
62 S	4-Bromofluorobenzene	50.000	50.160	-0.3	87	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	87	0.00
64 T	Tetrachloroethene	50.000	49.417	1.2	93	0.00
65 PM	Chlorobenzene	50.000	51.980	-4.0	95	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.199	-10.4	95	0.00
67 C	Ethyl Benzene	50.000	51.724	-3.4#	92	0.00
68 T	m/p-Xylenes	100.000	106.345	-6.3	94	0.00
69 T	o-Xylene	50.000	54.541	-9.1	96	0.00
70 T	Styrene	50.000	55.064	-10.1	94	0.00
71 P	Bromoform	50.000	54.781	-9.6	93	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73 T	Isopropylbenzene	50.000	52.958	-5.9	93	0.00
74 T	N-ethyl acetate	50.000	53.026	-6.1	89	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	52.379	-4.8	92	0.00
76 T	1,2,3-Trichloropropane	50.000	51.509	-3.0	91	0.00
77 T	Bromobenzene	50.000	52.592	-5.2	95	0.00
78 T	n-propylbenzene	50.000	51.885	-3.8	92	0.00
79 T	2-Chlorotoluene	50.000	51.487	-3.0	93	0.00
80 T	1,3,5-Trimethylbenzene	50.000	52.565	-5.1	93	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.862	-3.7	90	0.00
82 T	4-Chlorotoluene	50.000	50.910	-1.8	92	0.00
83 T	tert-Butylbenzene	50.000	53.295	-6.6	95	0.00
84 T	1,2,4-Trimethylbenzene	50.000	52.454	-4.9	94	0.00
85 T	sec-Butylbenzene	50.000	52.573	-5.1	95	0.00
86 T	p-Isopropyltoluene	50.000	52.107	-4.2	94	0.00
87 T	1,3-Dichlorobenzene	50.000	52.221	-4.4	96	0.00
88 T	1,4-Dichlorobenzene	50.000	51.383	-2.8	99	0.00
89 T	n-Butylbenzene	50.000	50.742	-1.5	93	0.00
90 T	Hexachloroethane	50.000	50.802	-1.6	93	0.00
91 T	1,2-Dichlorobenzene	50.000	52.399	-4.8	96	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	49.901	0.2	86	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.453	-4.9	100	0.00
94 T	Hexachlorobutadiene	50.000	47.005	6.0	89	0.00
95 T	Naphthalene	50.000	53.781	-7.6	94	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046636.D
Acq On : 11 Jun 2025 14:46
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 12 02:28:45 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	51.057	-2.1	96	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: JAC005

Lab Code: CHEM Case No.: Q2249 SAS No.: Q2249 SDG No.: Q2249

Instrument ID: MSVOA_X Calibration Date/Time: 06/12/2025 10:11

Lab File ID: VX046657.D Init. Calib. Date(s): 06/06/2025 06/06/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 09:42 12:57

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

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
Vinyl Chloride	0.630	0.498		-20.95	20
1,1-Dichloroethene	0.594	0.579		-2.53	20
1,1-Dichloroethane	1.281	1.183	0.1	-7.65	20
cis-1,2-Dichloroethene	0.773	0.764		-1.16	20
1,1,1-Trichloroethane	1.148	1.075		-6.36	20
Benzene	1.479	1.498		1.28	20
1,2-Dichloroethane	0.615	0.566		-7.97	20
Trichloroethene	0.376	0.394		4.79	20
1,1,2-Trichloroethane	0.365	0.423		15.89	20
Tetrachloroethene	0.334	0.342		2.39	20
1,2-Dichloroethane-d4	0.890	0.711		-20.11	20
Dibromofluoromethane	0.368	0.434		17.93	20
Toluene-d8	1.212	1.368		12.87	20
4-Bromofluorobenzene	0.502	0.561		11.75	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\VX061225\
 Data File : VX046657.D
 Acq On : 12 Jun 2025 10:11
 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 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	82603	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.769	114	125406	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	118101	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	60636	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	58736	39.968	ug/l	-0.01
Spiked Amount 50.000	Range 74 - 125		Recovery =	79.940%		
35) Dibromofluoromethane	5.391	113	54484	59.078	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery =	118.160%		
50) Toluene-d8	8.647	98	171603	56.439	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	112.880%		
62) 4-Bromofluorobenzene	11.079	95	70345	55.919	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	111.840%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	47986	41.844	ug/l	98
3) Chloromethane	1.307	50	40603	38.898	ug/l	98
4) Vinyl Chloride	1.386	62	41173	39.569	ug/l	97
5) Bromomethane	1.617	94	23131	36.617	ug/l	99
6) Chloroethane	1.697	64	23838	35.309	ug/l	94
7) Trichlorofluoromethane	1.904	101	74178	43.086	ug/l	98
8) Diethyl Ether	2.142	74	26788	44.038	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.343	101	52208	48.132	ug/l	92
10) Methyl Iodide	2.465	142	49604	42.187	ug/l	98
11) Tert butyl alcohol	2.965	59	31227	191.495	ug/l	98
12) 1,1-Dichloroethene	2.337	96	47795	48.736	ug/l	84
13) Acrolein	2.245	56	62360	308.244	ug/l	100
14) Allyl chloride	2.678	41	85070	44.168	ug/l	93
15) Acrylonitrile	3.068	53	138381	224.440	ug/l	99
16) Acetone	2.386	43	123430	214.546	ug/l	92
17) Carbon Disulfide	2.526	76	92448	44.419	ug/l	98
18) Methyl Acetate	2.715	43	80898	46.215	ug/l	96
19) Methyl tert-butyl Ether	3.123	73	167393	48.780	ug/l	98
20) Methylene Chloride	2.800	84	55016	46.663	ug/l	93
21) trans-1,2-Dichloroethene	3.105	96	47376	45.648	ug/l	93
22) Diisopropyl ether	3.770	45	179769	47.342	ug/l #	81
23) Vinyl Acetate	3.733	43	676467	230.742	ug/l	97
24) 1,1-Dichloroethane	3.623	63	97719	46.174	ug/l	98
25) 2-Butanone	4.562	43	162555	198.700	ug/l	96
26) 2,2-Dichloropropane	4.489	77	77371	49.247	ug/l	95
27) cis-1,2-Dichloroethene	4.501	96	63074	49.368	ug/l	89
28) Bromochloromethane	4.903	49	43653	43.246	ug/l	89
29) Tetrahydrofuran	5.007	42	104633	202.521	ug/l	96
30) Chloroform	5.105	83	104851	47.284	ug/l	98
31) Cyclohexane	5.483	56	74094	43.368	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	88809	46.820	ug/l	97
36) 1,1-Dichloropropene	5.696	75	63502	48.205	ug/l	96
37) Ethyl Acetate	4.721	43	64655	50.287	ug/l	99
38) Carbon Tetrachloride	5.684	117	76036	51.532	ug/l	99
39) Methylcyclohexane	7.385	83	74314	47.793	ug/l	95
40) Benzene	6.043	78	187904	50.668	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046657.D
 Acq On : 12 Jun 2025 10:11
 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 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.928	41	38623	48.375	ug/l	91
42) 1,2-Dichloroethane	6.092	62	70921	45.968	ug/l	95
43) Isopropyl Acetate	6.342	43	103479	46.166	ug/l	96
44) Trichloroethene	7.129	130	49377	52.401	ug/l	99
45) 1,2-Dichloropropane	7.434	63	49574	51.789	ug/l	98
46) Dibromomethane	7.580	93	31955	44.374	ug/l	89
47) Bromodichloromethane	7.824	83	69476	46.922	ug/l	99
48) Methyl methacrylate	7.696	41	46050	39.931	ug/l	92
49) 1,4-Dioxane	7.659	88	12858	833.741	ug/l	95
51) 4-Methyl-2-Pentanone	8.574	43	335937	235.853	ug/l	96
52) Toluene	8.720	92	126444	55.498	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	74282	55.952	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	77787	52.698	ug/l #	87
55) 1,1,2-Trichloroethane	9.153	97	53066	58.018	ug/l	97
56) Ethyl methacrylate	9.116	69	78215	55.570	ug/l	90
57) 1,3-Dichloropropane	9.305	76	86547	53.544	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	182816	238.457	ug/l	94
59) 2-Hexanone	9.427	43	240805	235.732	ug/l	95
60) Dibromochloromethane	9.518	129	62722	58.299	ug/l	100
61) 1,2-Dibromoethane	9.610	107	52060	54.621	ug/l	97
64) Tetrachloroethene	9.275	164	40422	51.184	ug/l	97
65) Chlorobenzene	10.079	112	144347	51.968	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.159	131	52019	55.422	ug/l	98
67) Ethyl Benzene	10.195	91	246134	50.760	ug/l	97
68) m/p-Xylenes	10.299	106	184992	105.170	ug/l	95
69) o-Xylene	10.640	106	90327	53.091	ug/l	96
70) Styrene	10.652	104	160199	55.006	ug/l	96
71) Bromoform	10.799	173	40874	57.113	ug/l #	98
73) Isopropylbenzene	10.957	105	246450	51.704	ug/l	99
74) N-amyl acetate	10.841	43	96513	45.978	ug/l	95
75) 1,1,2,2-Tetrachloroethane	11.207	83	74710	48.967	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	61557m	47.929	ug/l	
77) Bromobenzene	11.195	156	59447	53.732	ug/l	90
78) n-propylbenzene	11.299	91	286022	49.576	ug/l	97
79) 2-Chlorotoluene	11.360	91	169410	48.694	ug/l	95
80) 1,3,5-Trimethylbenzene	11.451	105	200783	50.550	ug/l	95
81) trans-1,4-Dichloro-2-b...	11.018	75	22982	51.617	ug/l	86
82) 4-Chlorotoluene	11.451	91	200979	48.737	ug/l	95
83) tert-Butylbenzene	11.713	119	212278	52.499	ug/l	93
84) 1,2,4-Trimethylbenzene	11.750	105	202682	50.441	ug/l	96
85) sec-Butylbenzene	11.890	105	266244	51.245	ug/l	99
86) p-Isopropyltoluene	12.006	119	222767	51.432	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	111567	51.930	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	111874	50.254	ug/l	99
89) n-Butylbenzene	12.329	91	208960	49.127	ug/l	98
90) Hexachloroethane	12.536	117	39050	50.726	ug/l	93
91) 1,2-Dichlorobenzene	12.335	146	108933	52.528	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.939	75	15368	44.981	ug/l	84
93) 1,2,4-Trichlorobenzene	13.585	180	74128	52.400	ug/l	99
94) Hexachlorobutadiene	13.725	225	31934	48.574	ug/l	97
95) Naphthalene	13.774	128	232051	51.726	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	73372	51.724	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046657.D
Acq On : 12 Jun 2025 10:11
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 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:40:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

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

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

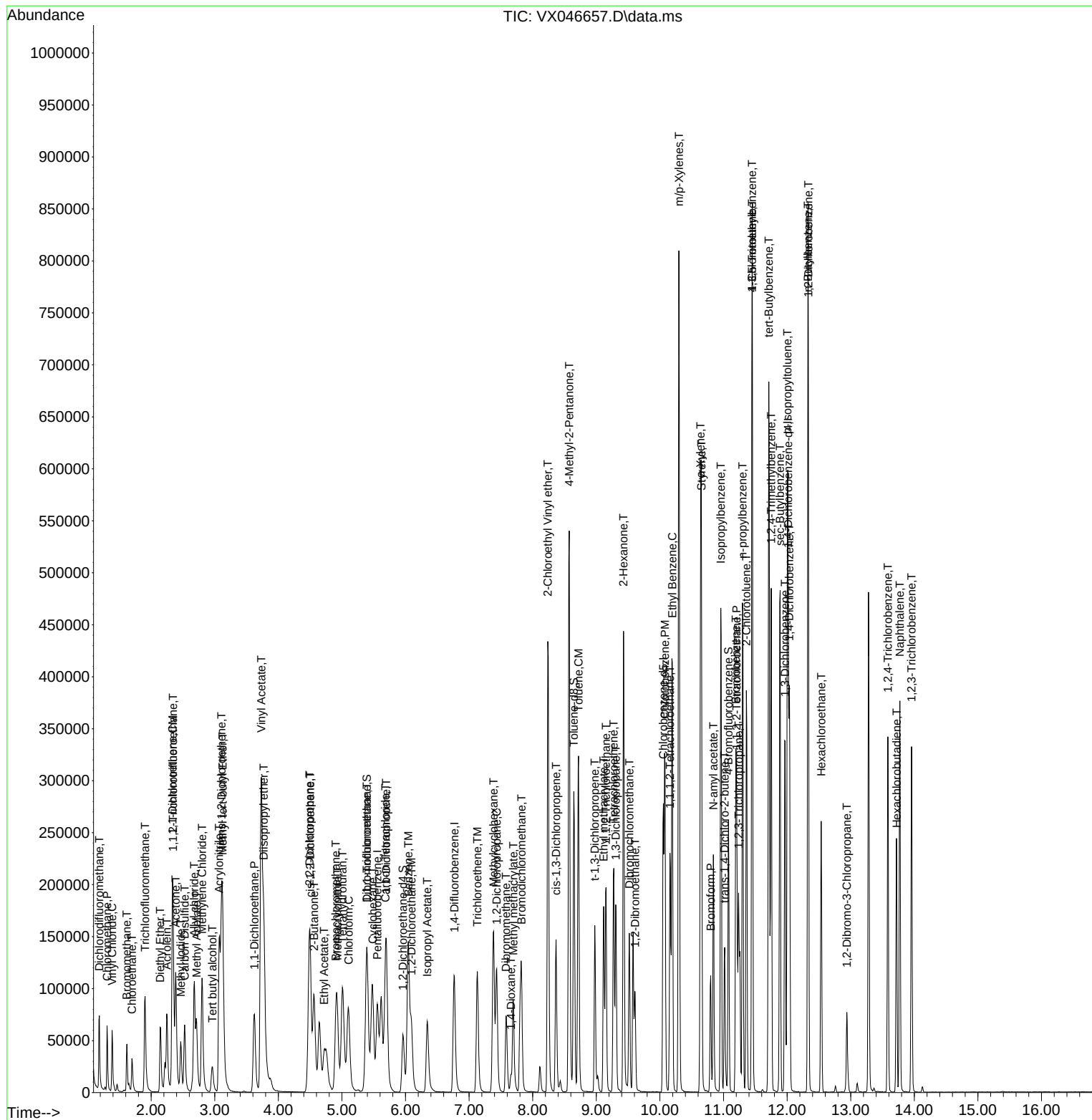
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Data File : VX046657.D  
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Operator  : JC/MD  
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Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 2      Sample Multiplier: 1
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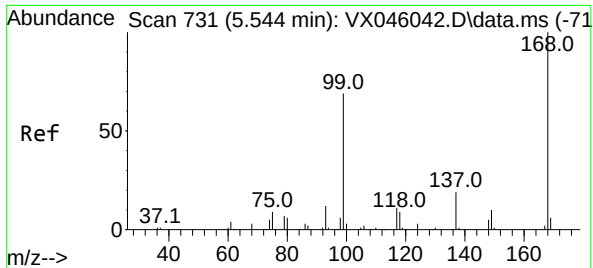
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Manual Integrations

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:40:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration





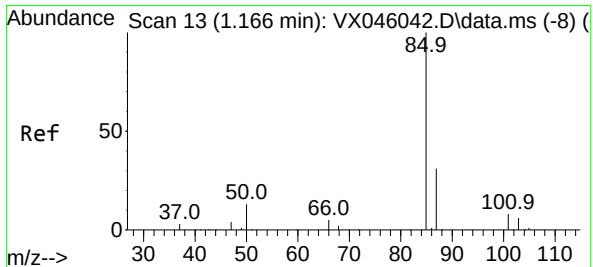
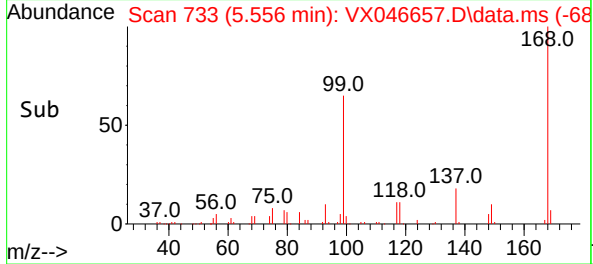
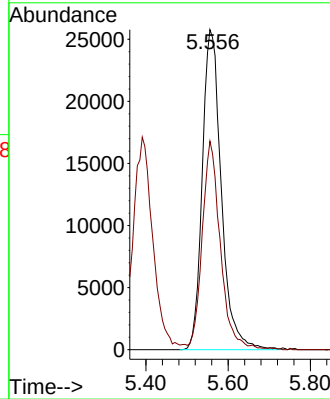
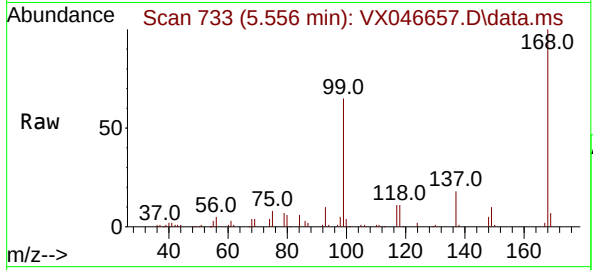
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:168 Resp: 8260
Ion Ratio Lower Upper
168 100
99 64.9 54.9 82.3

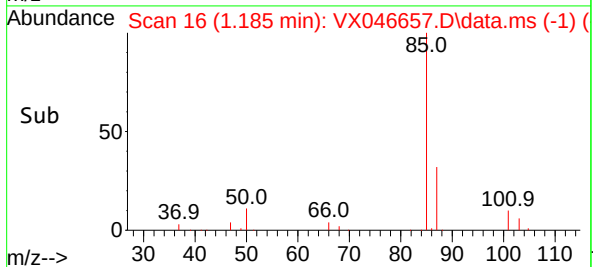
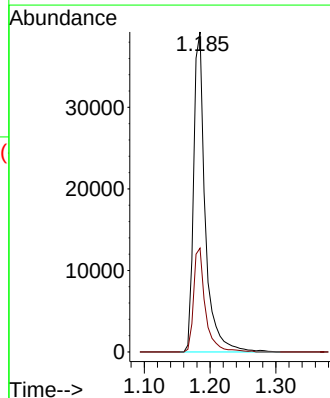
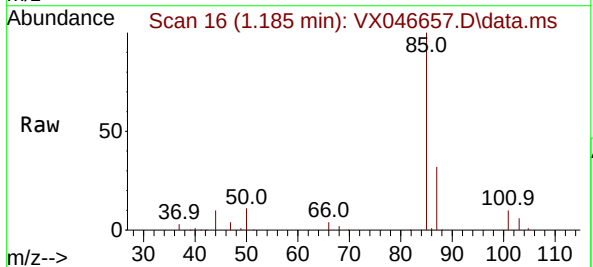
Manual Integrations
APPROVED

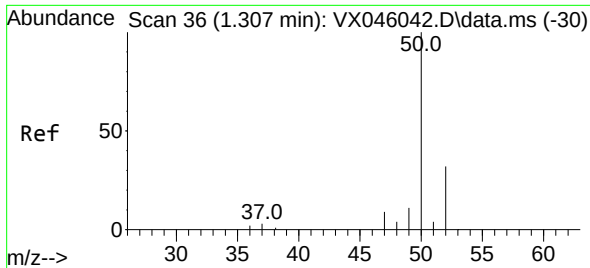
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#2
Dichlorodifluoromethane
Concen: 41.844 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion: 85 Resp: 47986
Ion Ratio Lower Upper
85 100
87 32.5 15.7 47.1





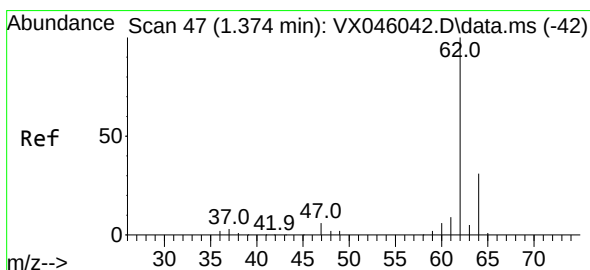
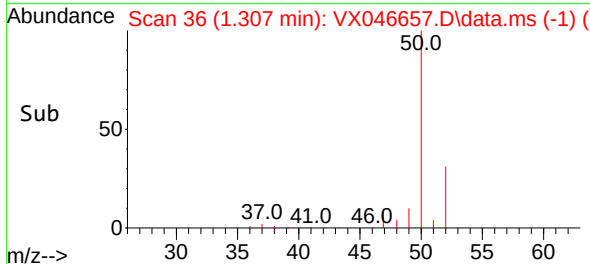
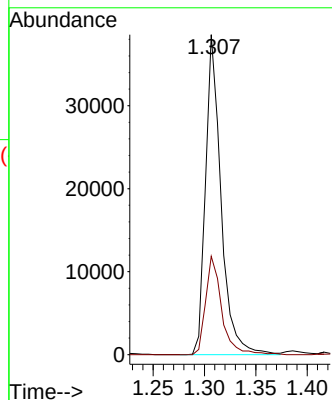
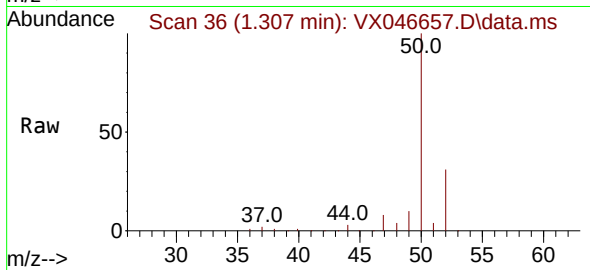
#3
Chloromethane
Concen: 38.898 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 50 Resp: 4060
Ion Ratio Lower Upper
50 100
52 30.8 25.4 38.2

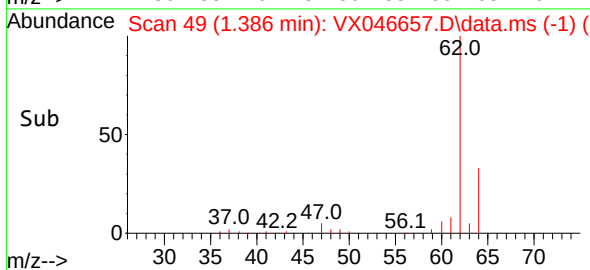
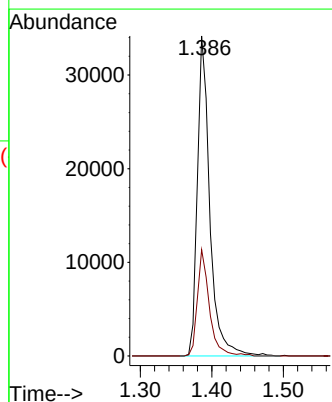
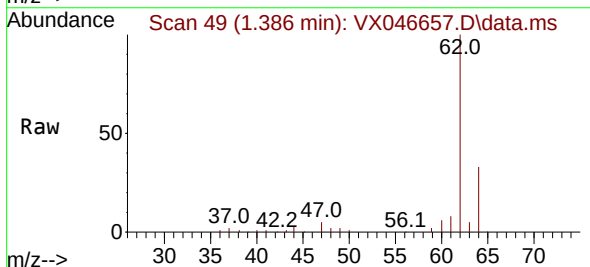
Manual Integrations
APPROVED

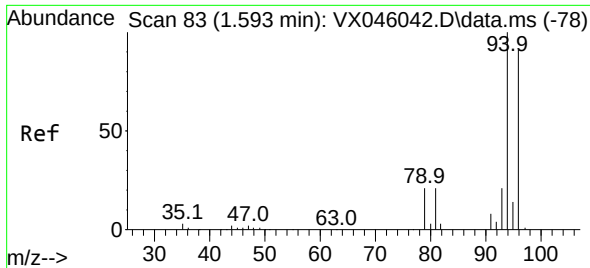
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#4
Vinyl Chloride
Concen: 39.569 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

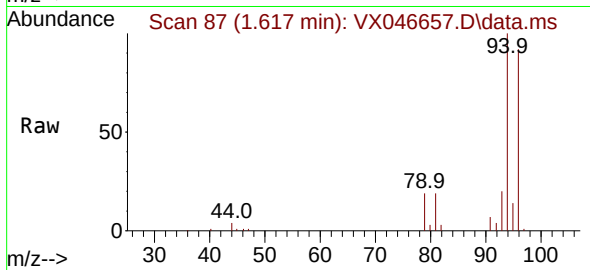
Tgt Ion: 62 Resp: 41173
Ion Ratio Lower Upper
62 100
64 33.2 25.2 37.8





#5
Bromomethane
Concen: 36.617 ug/l
RT: 1.617 min Scan# 81
Delta R.T. -0.007 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

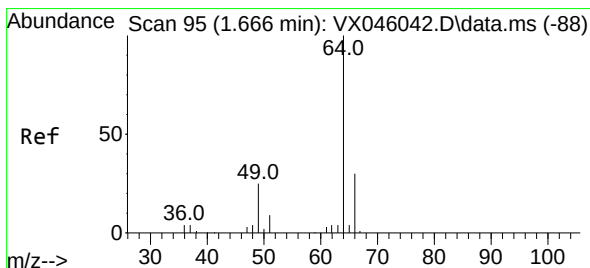
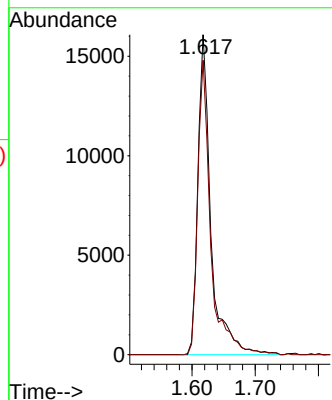
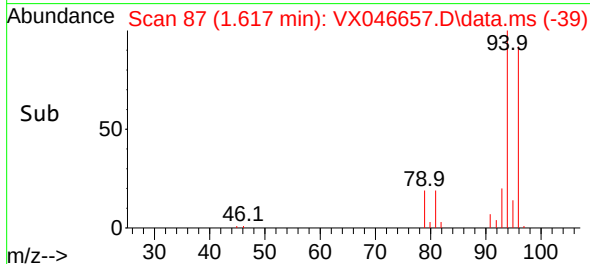
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 94 Resp: 2313
Ion Ratio Lower Upper
94 100
96 92.0 72.8 109.2

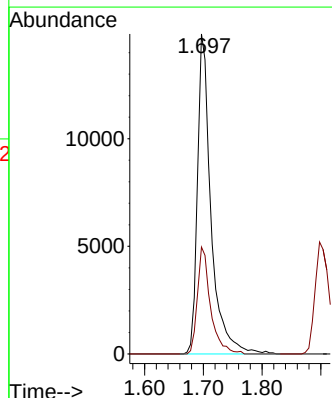
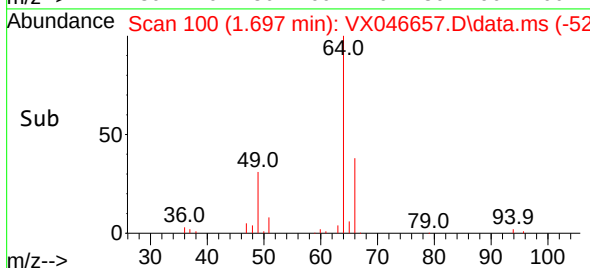
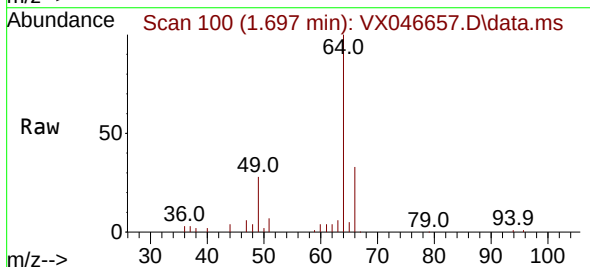
Manual Integrations
APPROVED

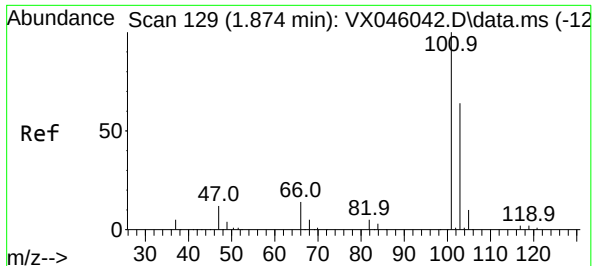
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#6
Chloroethane
Concen: 35.309 ug/l
RT: 1.697 min Scan# 100
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

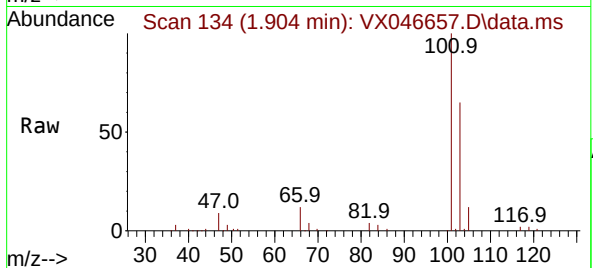
Tgt Ion: 64 Resp: 23838
Ion Ratio Lower Upper
64 100
66 33.4 24.3 36.5





#7
 Trichlorofluoromethane
 Concen: 43.086 ug/l
 RT: 1.904 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX046657.D
 Acq: 12 Jun 2025 10:11

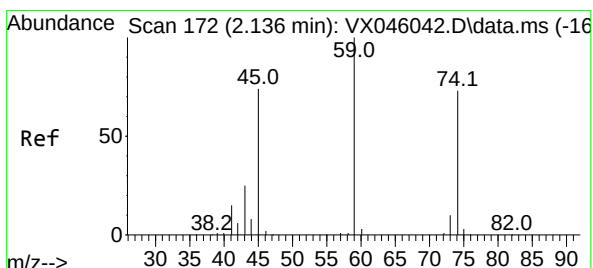
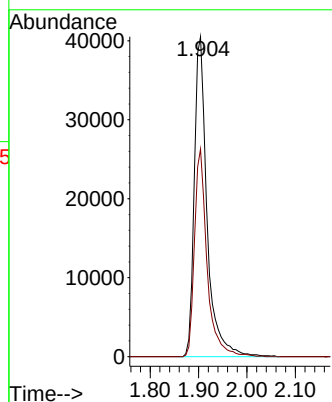
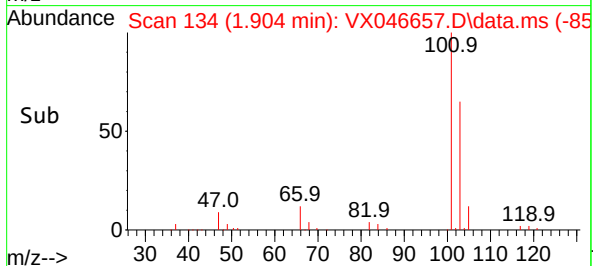
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



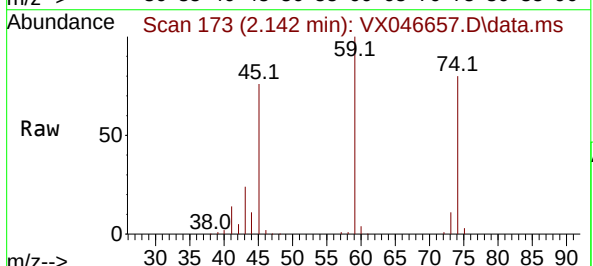
Tgt Ion:101 Resp: 74178
 Ion Ratio Lower Upper
 101 100
 103 64.9 51.0 76.4

Manual Integrations
 APPROVED

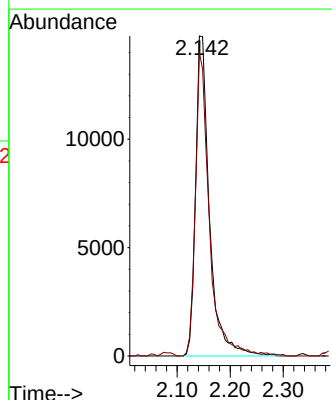
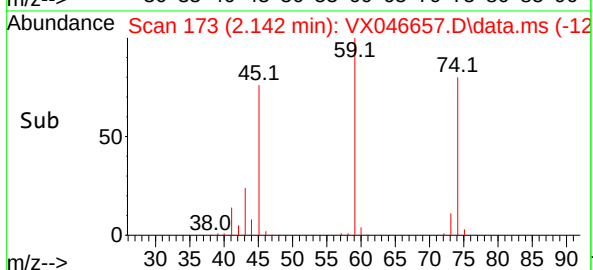
Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

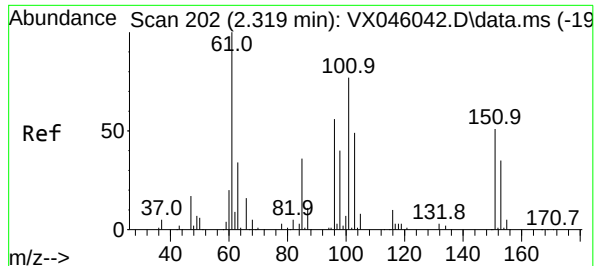


#8
 Diethyl Ether
 Concen: 44.038 ug/l
 RT: 2.142 min Scan# 173
 Delta R.T. -0.012 min
 Lab File: VX046657.D
 Acq: 12 Jun 2025 10:11



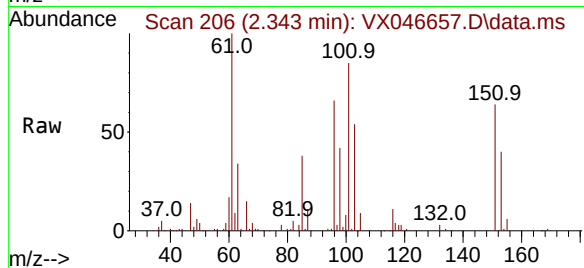
Tgt Ion: 74 Resp: 26788
 Ion Ratio Lower Upper
 74 100
 45 94.3 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.132 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

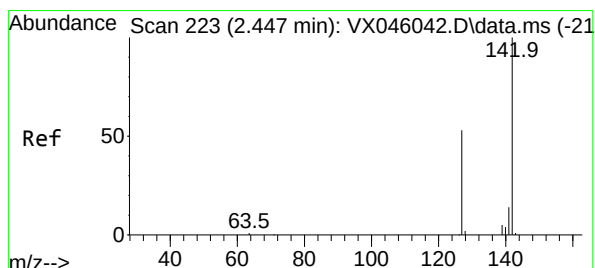
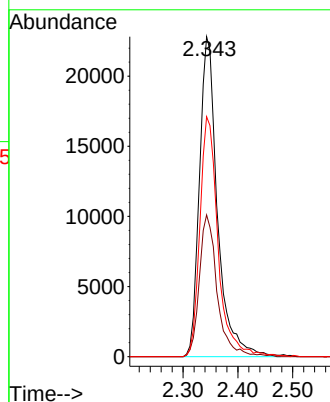
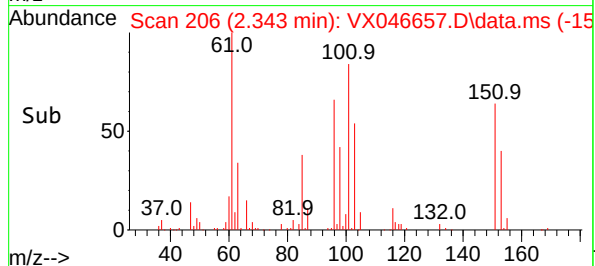
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:101 Resp: 52208
Ion Ratio Lower Upper
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85 44.0 38.6 58.0
151 76.0 55.2 82.8

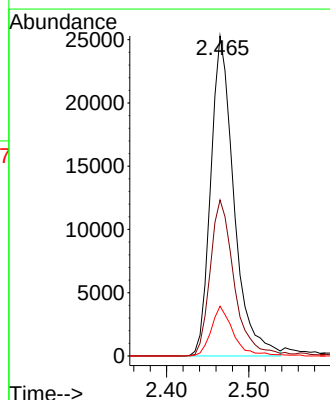
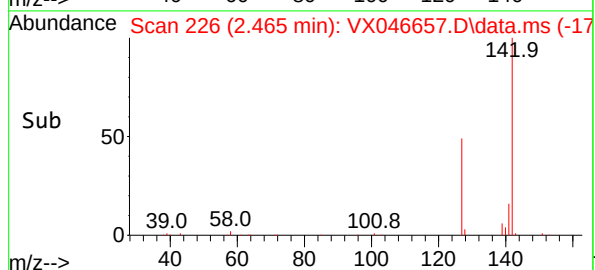
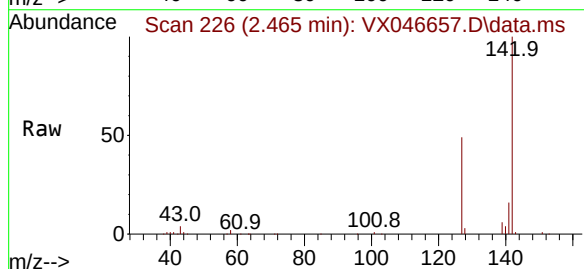
Manual Integrations
APPROVED

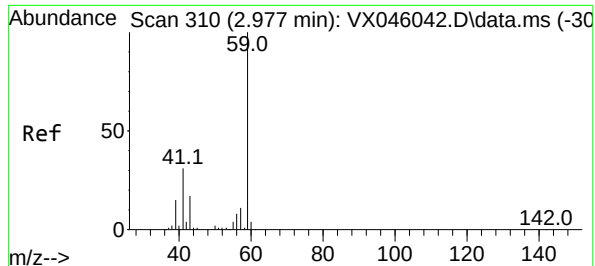
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#10
Methyl Iodide
Concen: 42.187 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:142 Resp: 49604
Ion Ratio Lower Upper
142 100
127 50.5 41.7 62.5
141 14.9 11.5 17.3





#11

Tert butyl alcohol

Concen: 191.495 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 59 Resp: 3122

Ion Ratio Lower Upper

59 100

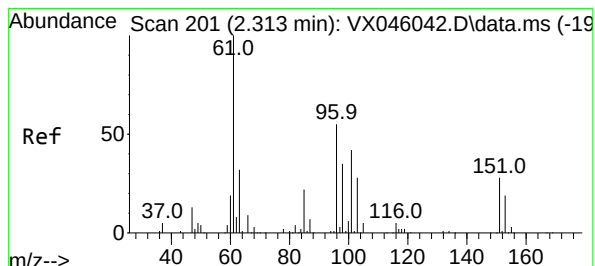
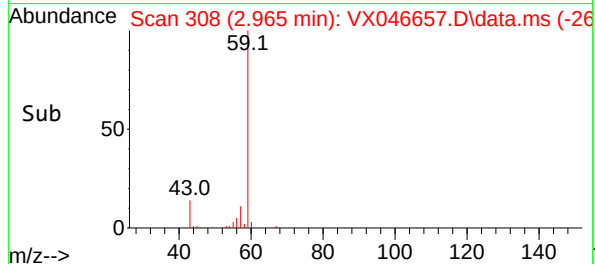
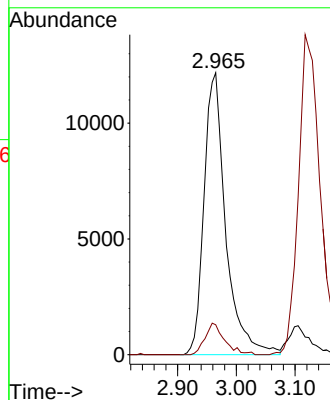
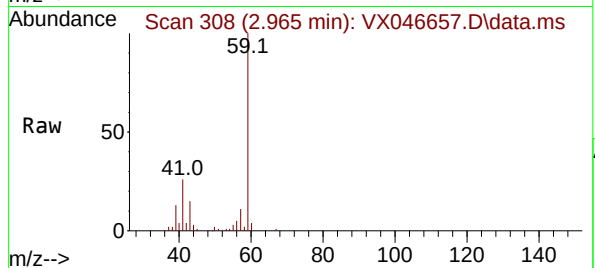
57 10.0 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#12

1,1-Dichloroethene

Concen: 48.736 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

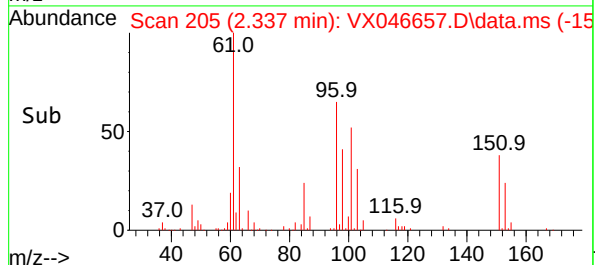
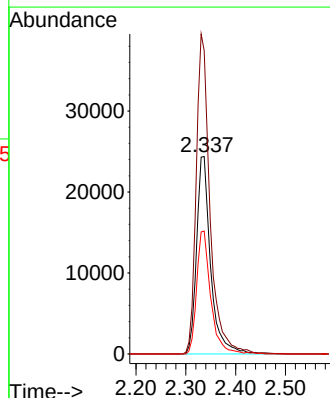
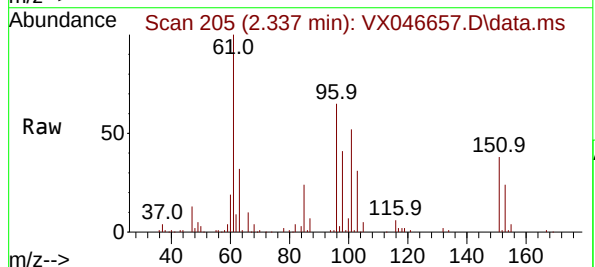
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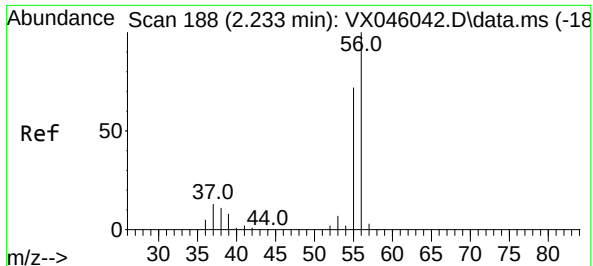
Ion Ratio Lower Upper

96 100

61 153.6 146.2 219.2

98 62.3 51.0 76.6





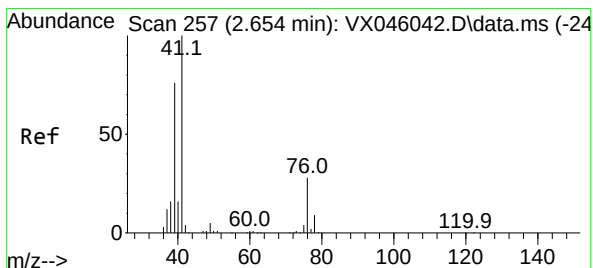
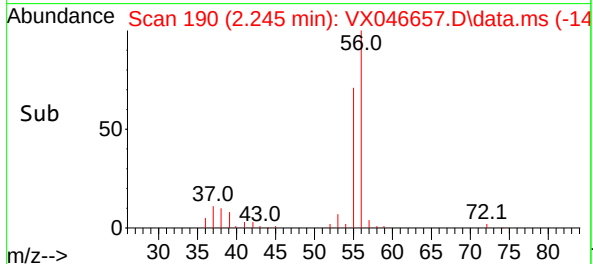
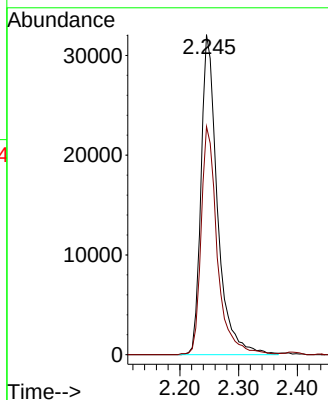
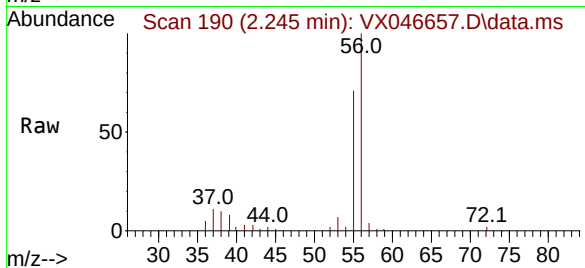
#13
Acrolein
Concen: 308.244 ug/l
RT: 2.245 min Scan# 190
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 56 Resp: 62360
Ion Ratio Lower Upper
56 100
55 70.4 56.2 84.4

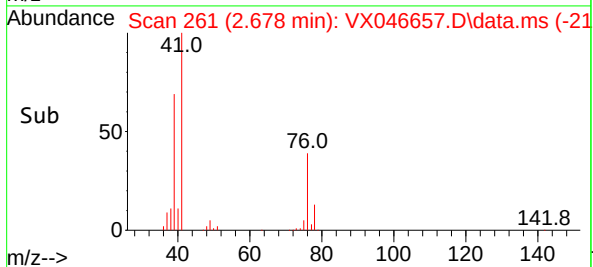
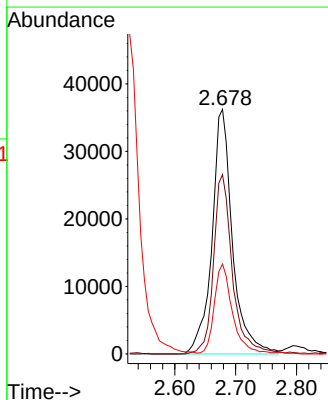
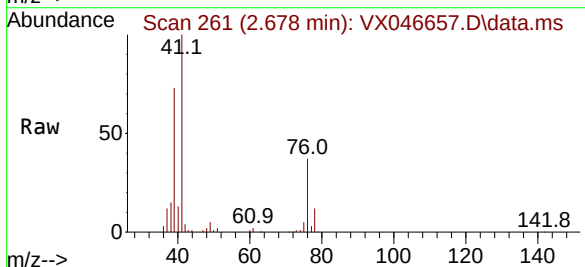
Manual Integrations
APPROVED

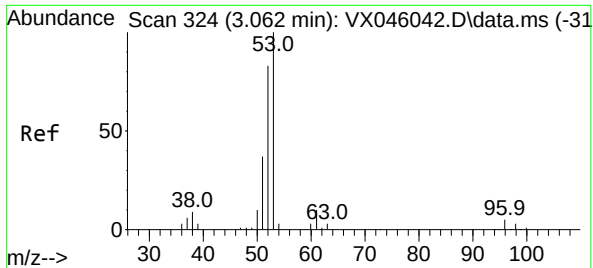
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#14
Allyl chloride
Concen: 44.168 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

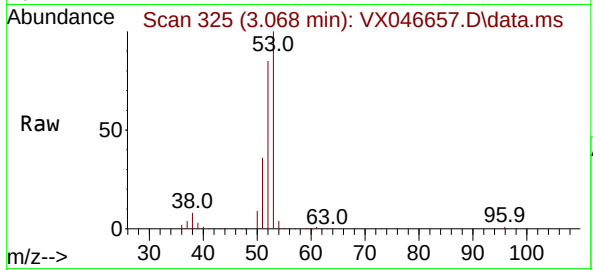
Tgt Ion: 41 Resp: 85070
Ion Ratio Lower Upper
41 100
39 67.4 60.6 90.8
76 31.2 24.9 37.3





#15
Acrylonitrile
Concen: 224.440 ug/l
RT: 3.068 min Scan# 31
Delta R.T. -0.013 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

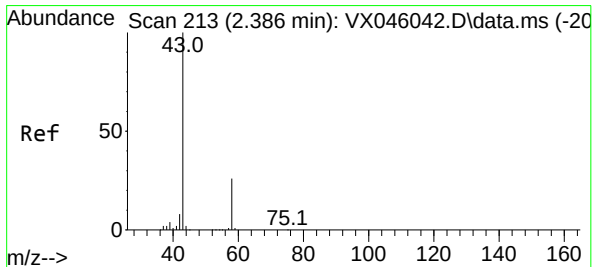
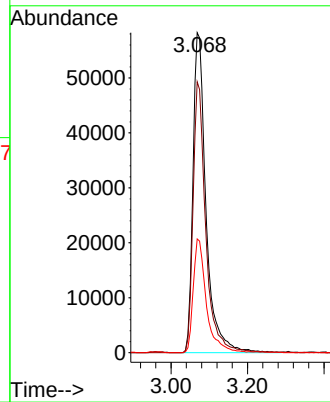
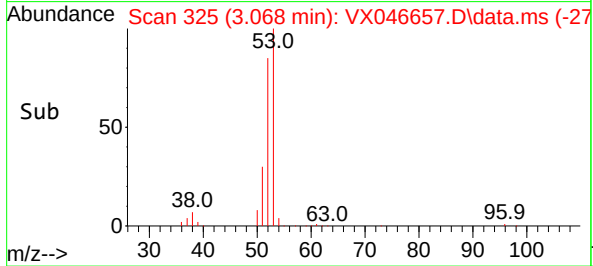
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 53 Resp: 13838
Ion Ratio Lower Upper
53 100
52 82.0 65.3 97.9
51 35.9 29.8 44.8

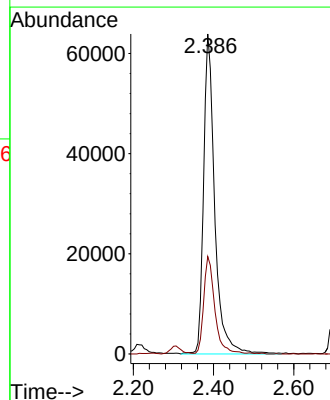
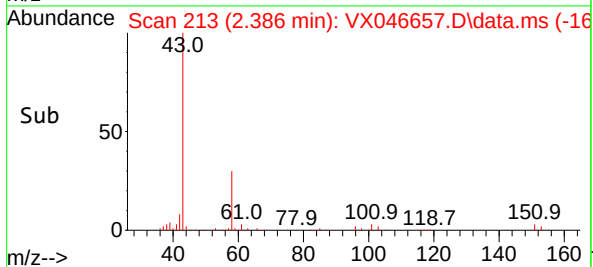
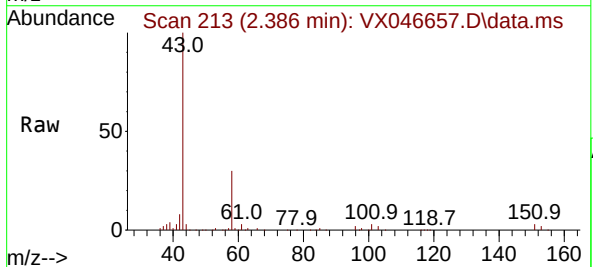
Manual Integrations
APPROVED

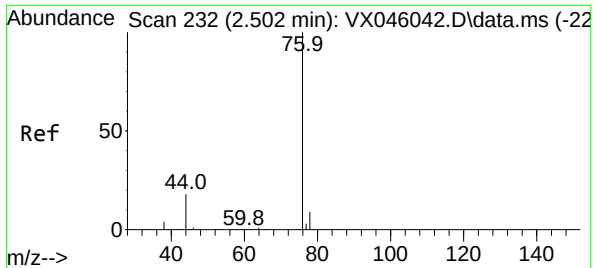
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#16
Acetone
Concen: 214.546 ug/l
RT: 2.386 min Scan# 213
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion: 43 Resp: 123430
Ion Ratio Lower Upper
43 100
58 30.5 21.2 31.8





#17

Carbon Disulfide

Concen: 44.419 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 92448

Ion Ratio Lower Upper

76 100

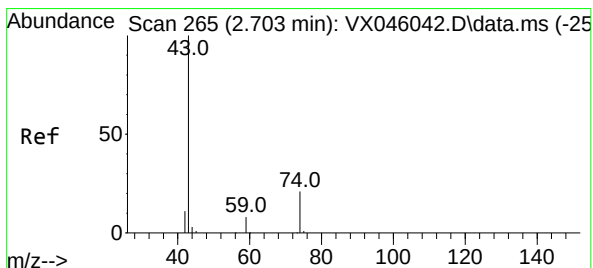
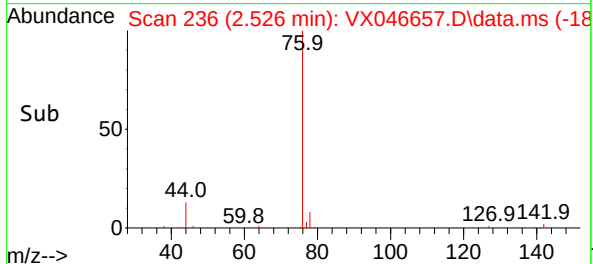
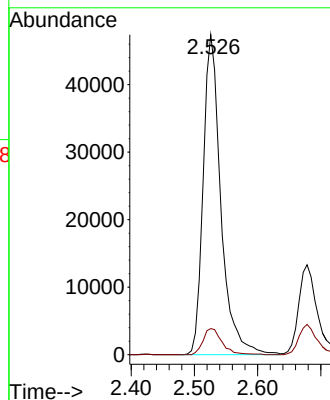
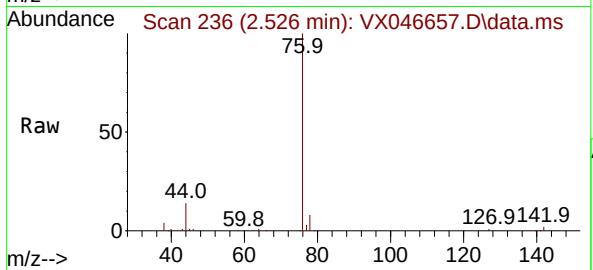
78 8.1 7.0 10.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#18

Methyl Acetate

Concen: 46.215 ug/l

RT: 2.715 min Scan# 267

Delta R.T. -0.006 min

Lab File: VX046657.D

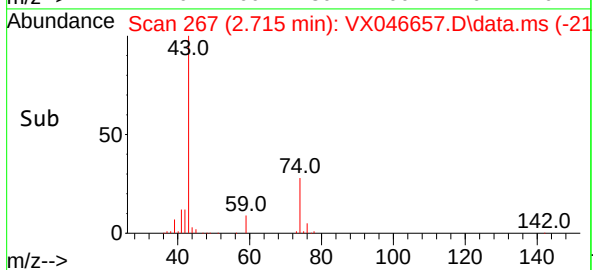
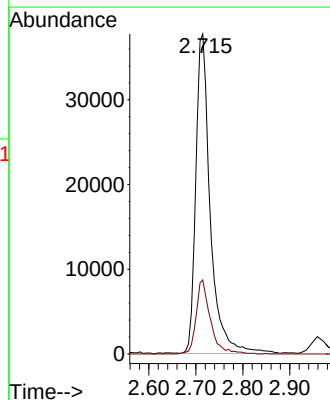
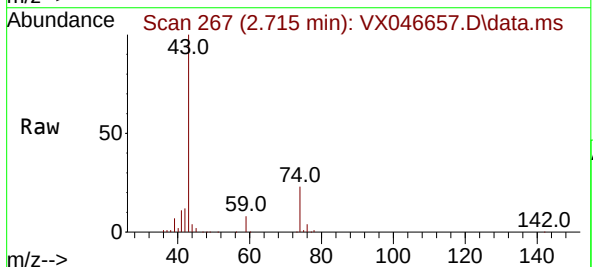
Acq: 12 Jun 2025 10:11

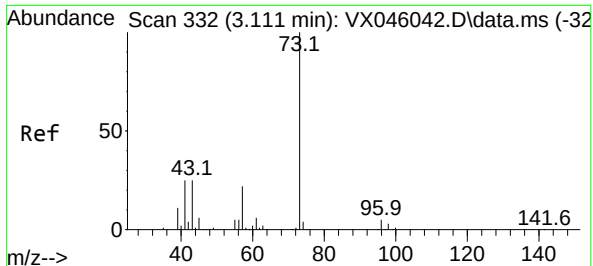
Tgt Ion: 43 Resp: 80898

Ion Ratio Lower Upper

43 100

74 22.9 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 48.780 ug/l

RT: 3.123 min Scan# 31

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 73 Resp: 16739

Ion Ratio Lower Upper

73 100

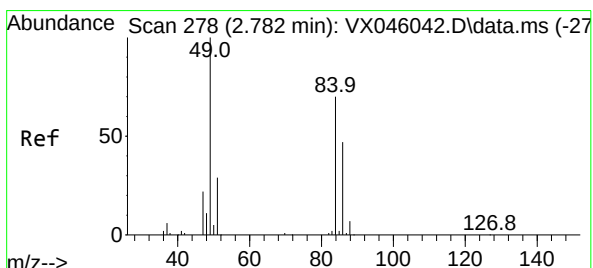
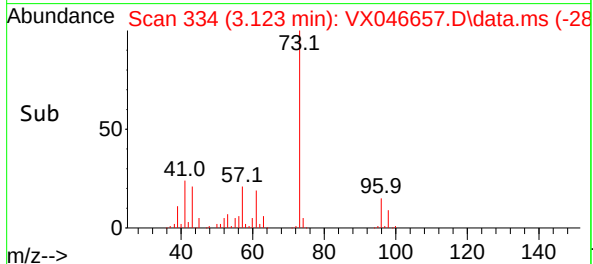
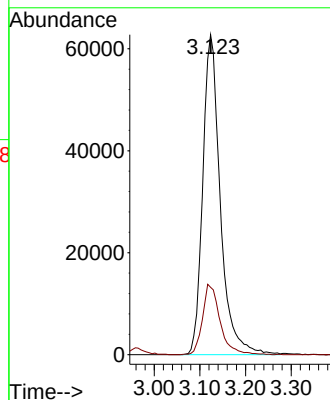
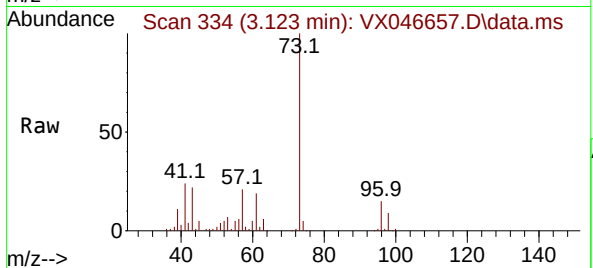
57 21.1 17.7 26.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#20

Methylene Chloride

Concen: 46.663 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Tgt Ion: 84 Resp: 55016

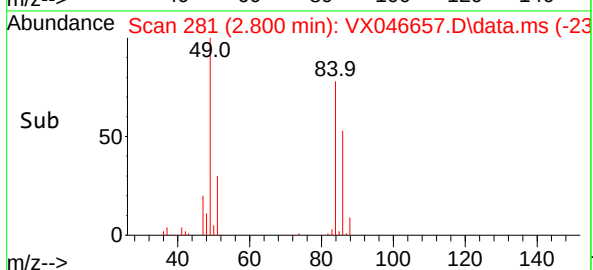
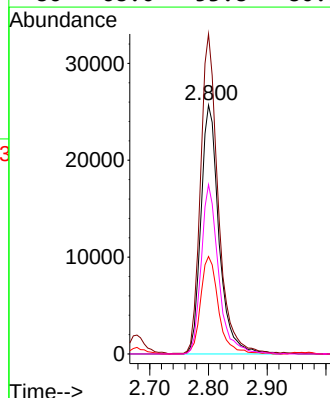
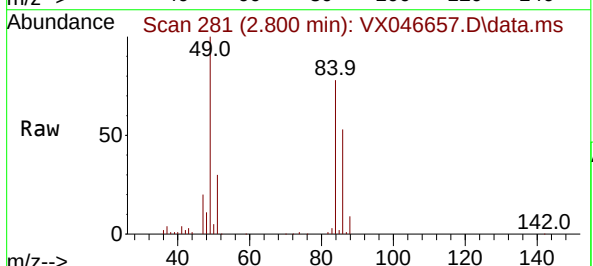
Ion Ratio Lower Upper

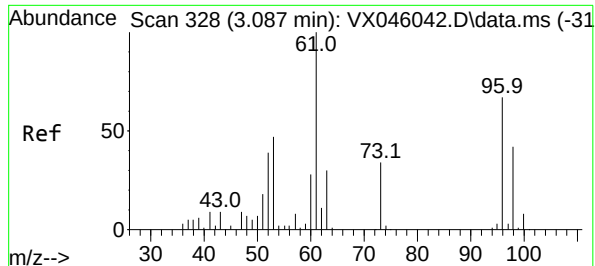
84 100

49 128.3 113.9 170.9

51 39.2 33.5 50.3

86 68.0 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 45.648 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046657.D

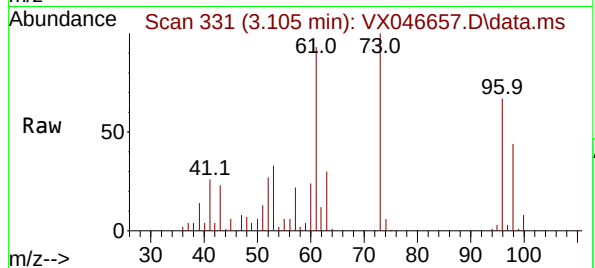
Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050



Tgt Ion: 96 Resp: 47370

Ion Ratio Lower Upper

96 100

61 137.8 119.5 179.3

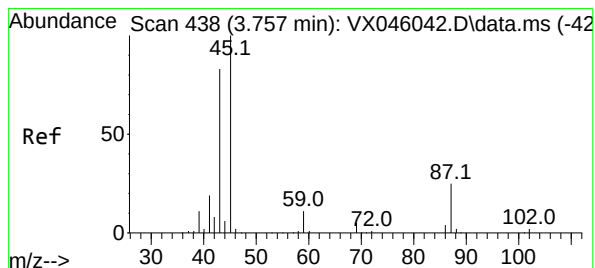
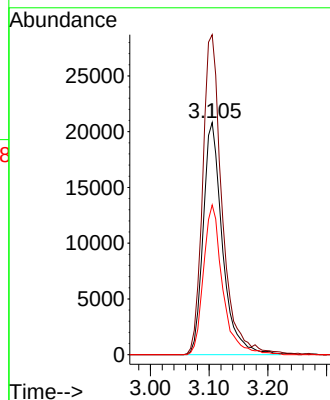
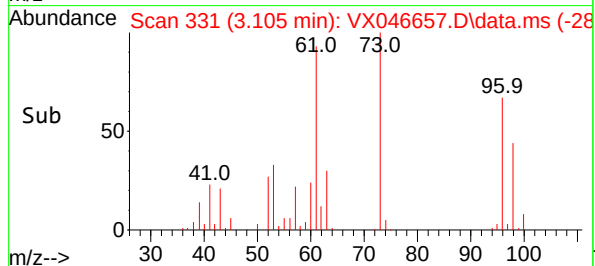
98 64.5 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#22

Diisopropyl ether

Concen: 47.342 ug/l

RT: 3.770 min Scan# 440

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Tgt Ion: 45 Resp: 179769

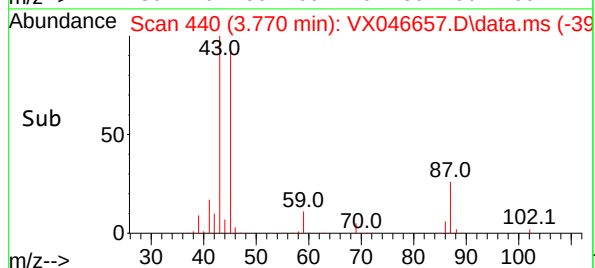
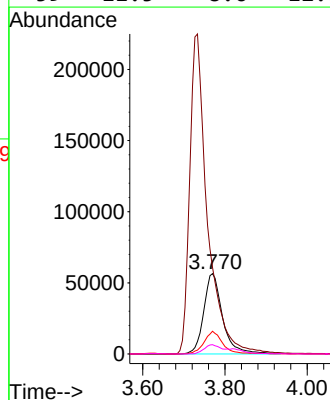
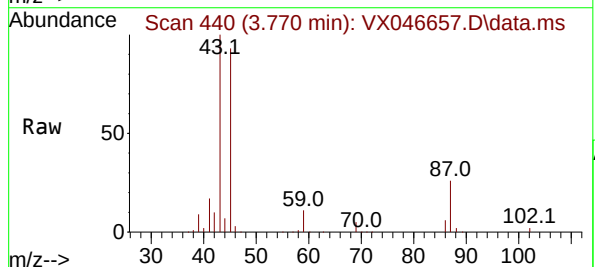
Ion Ratio Lower Upper

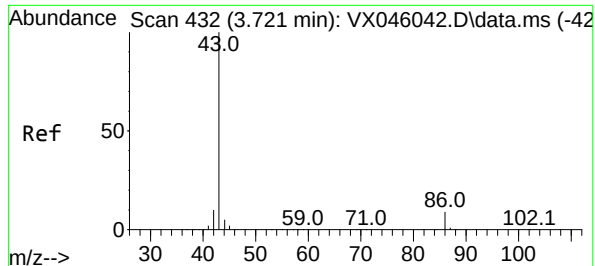
45 100

43 106.1 66.6 100.0#

87 28.3 19.8 29.6

59 11.5 8.6 12.8





#23

Vinyl Acetate

Concen: 230.742 ug/l

RT: 3.733 min Scan# 416

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 67646

Ion Ratio Lower Upper

43 100

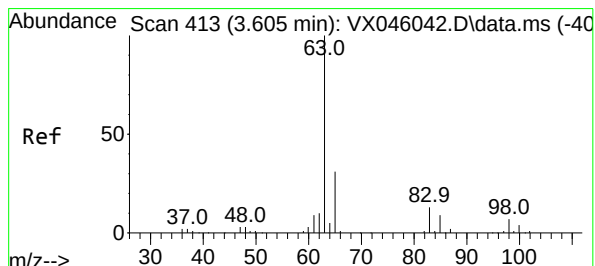
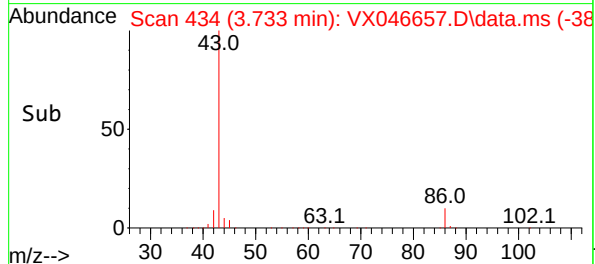
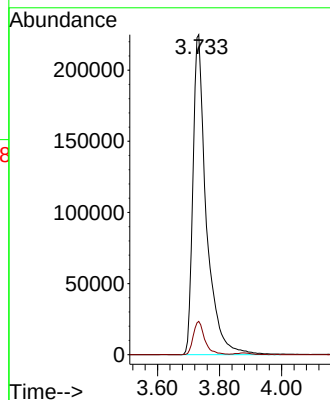
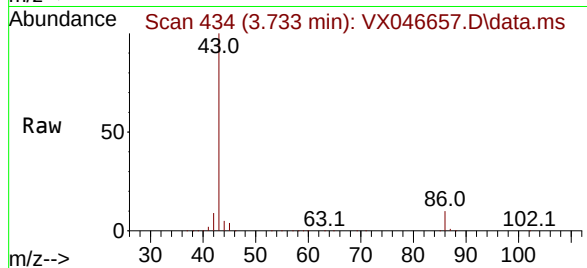
86 10.4 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#24

1,1-Dichloroethane

Concen: 46.174 ug/l

RT: 3.623 min Scan# 416

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

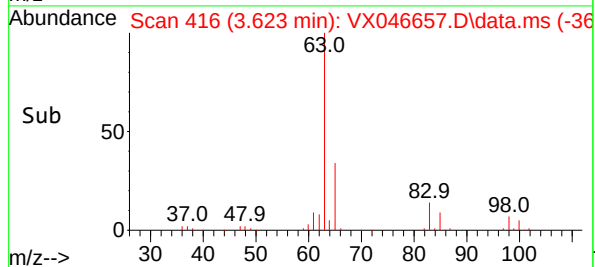
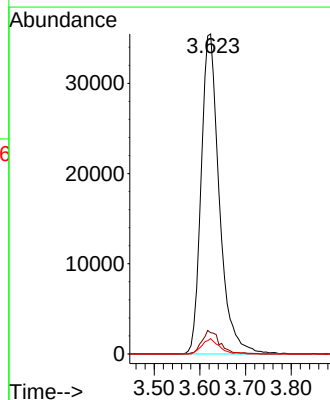
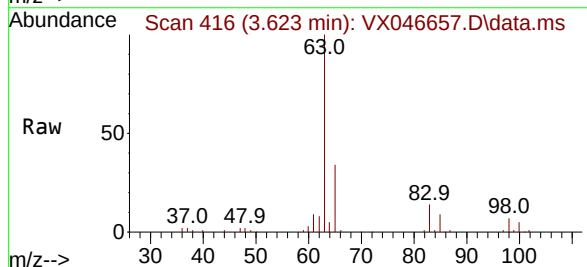
Tgt Ion: 63 Resp: 97719

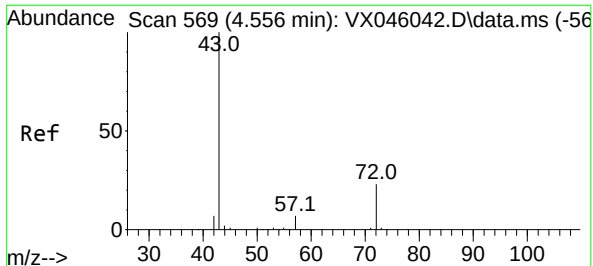
Ion Ratio Lower Upper

63 100

98 6.7 3.6 10.8

100 4.8 2.1 6.3





#25

2-Butanone

Concen: 198.700 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 16255

Ion Ratio Lower Upper

43 100

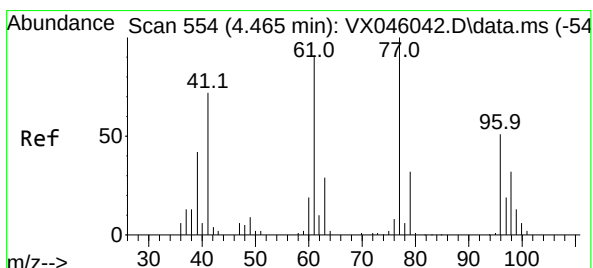
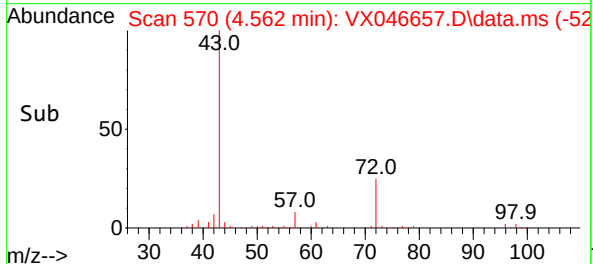
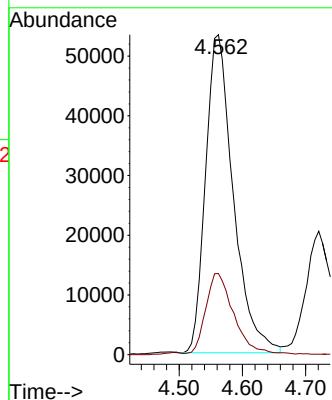
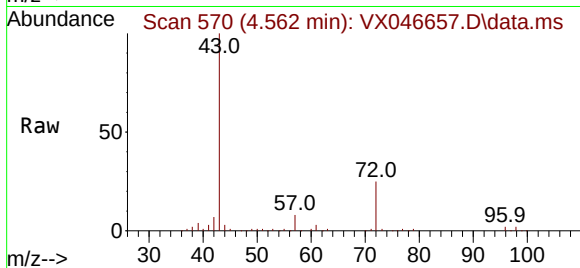
72 25.0 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#26

2,2-Dichloropropane

Concen: 49.247 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046657.D

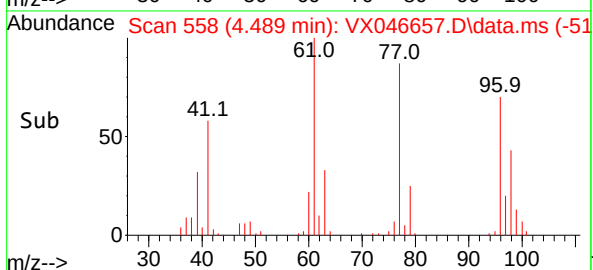
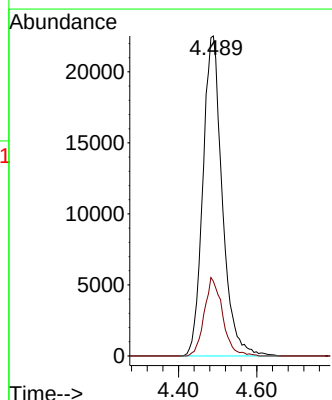
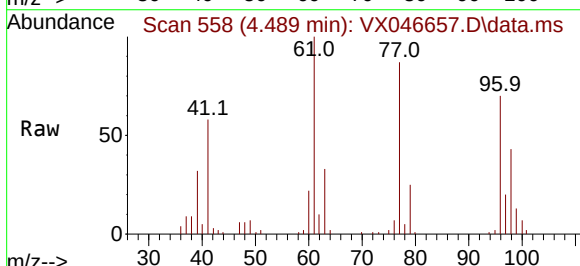
Acq: 12 Jun 2025 10:11

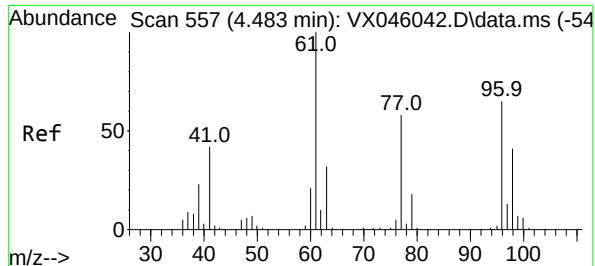
Tgt Ion: 77 Resp: 77371

Ion Ratio Lower Upper

77 100

97 23.1 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 49.368 ug/l

RT: 4.501 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 96 Resp: 63074

Ion Ratio Lower Upper

96 100

61 142.2 0.0 322.8

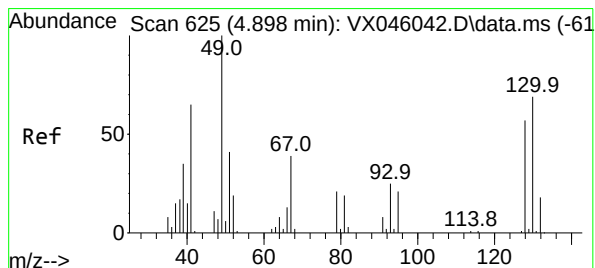
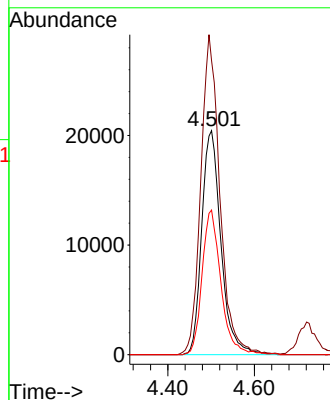
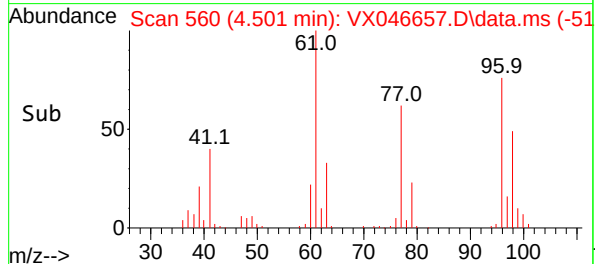
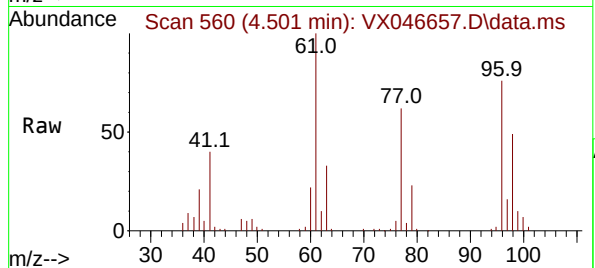
98 63.2 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#28

Bromochloromethane

Concen: 43.246 ug/l

RT: 4.903 min Scan# 626

Delta R.T. -0.013 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

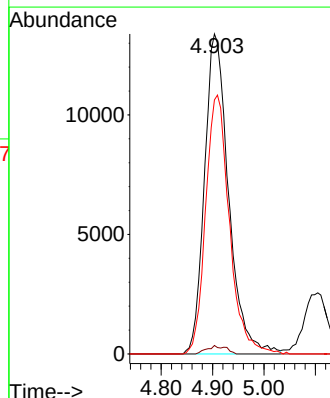
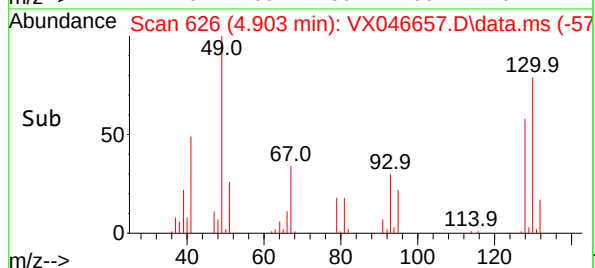
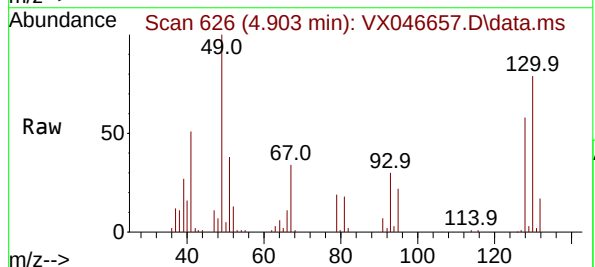
Tgt Ion: 49 Resp: 43653

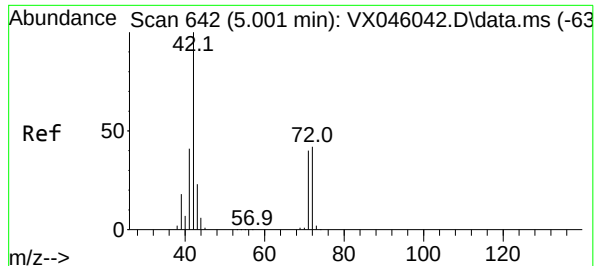
Ion Ratio Lower Upper

49 100

129 2.0 0.0 4.0

130 79.8 56.2 84.2





#29

Tetrahydrofuran

Concen: 202.521 ug/l

RT: 5.007 min Scan# 642

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 42 Resp: 10463

Ion Ratio Lower Upper

42 100

72 45.3 33.7 50.5

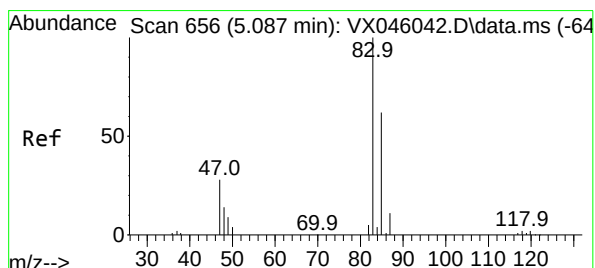
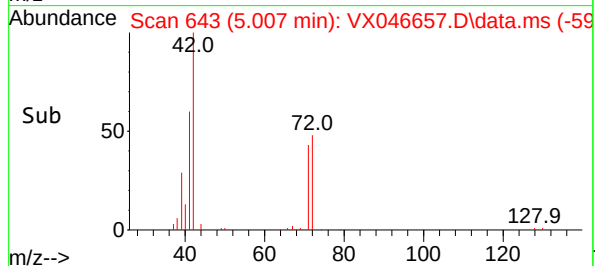
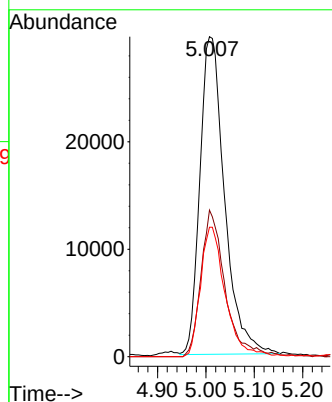
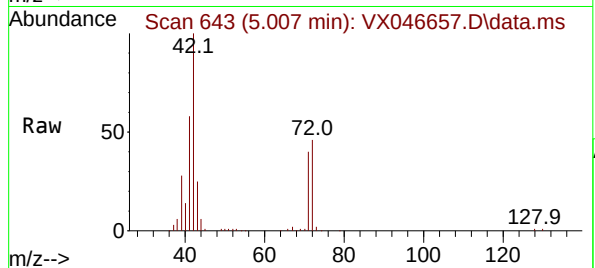
71 40.8 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#30

Chloroform

Concen: 47.284 ug/l

RT: 5.105 min Scan# 659

Delta R.T. -0.006 min

Lab File: VX046657.D

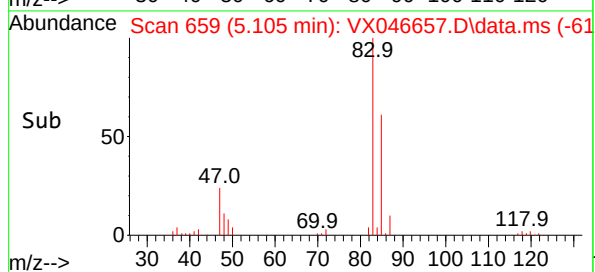
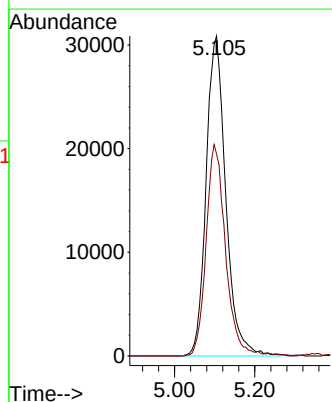
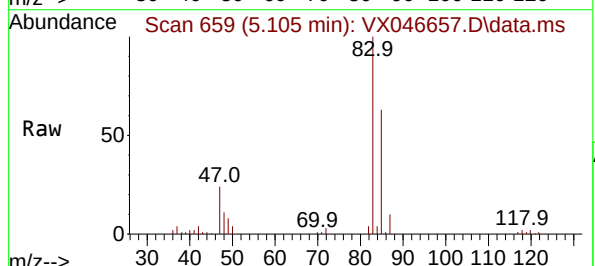
Acq: 12 Jun 2025 10:11

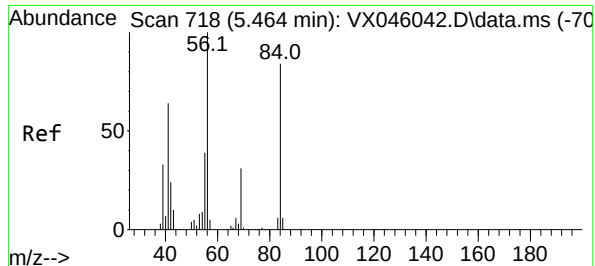
Tgt Ion: 83 Resp: 104851

Ion Ratio Lower Upper

83 100

85 63.2 49.3 73.9





#31

Cyclohexane

Concen: 43.368 ug/l

RT: 5.483 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 56 Resp: 74094

Ion Ratio Lower Upper

56 100

69 31.5 24.4 36.6

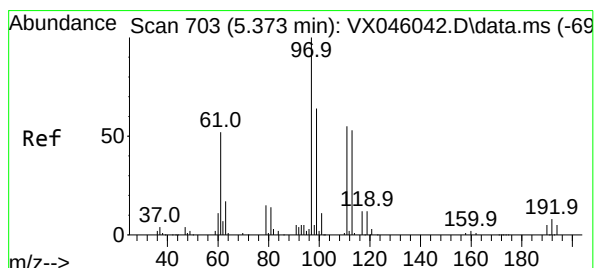
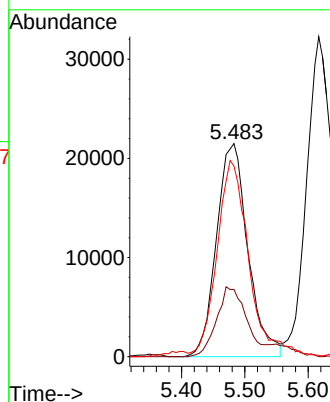
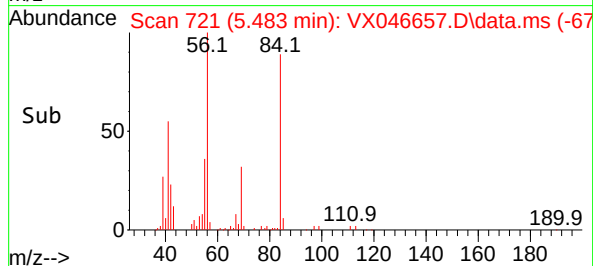
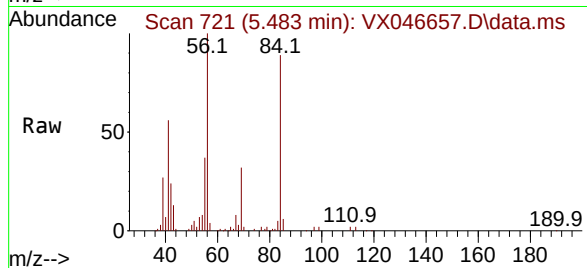
84 86.9 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#32

1,1,1-Trichloroethane

Concen: 46.820 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

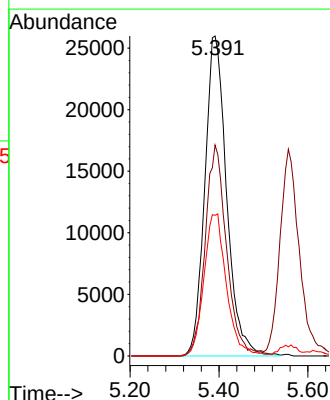
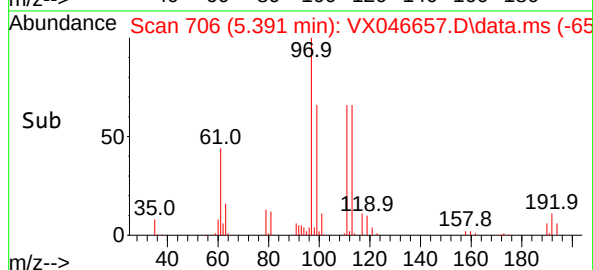
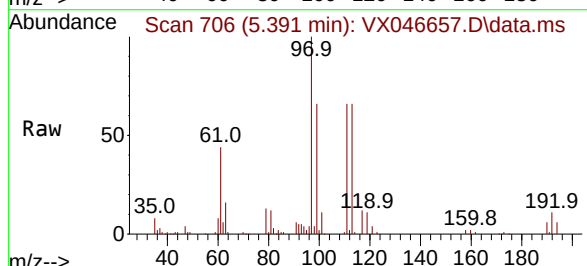
Tgt Ion: 97 Resp: 88809

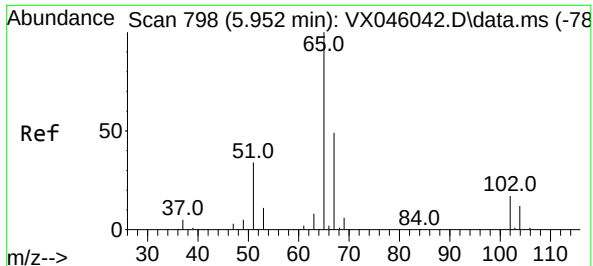
Ion Ratio Lower Upper

97 100

99 64.2 51.8 77.6

61 45.8 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 39.968 ug/l

RT: 5.958 min Scan# 798

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 65 Resp: 58730

Ion Ratio Lower Upper

65 100

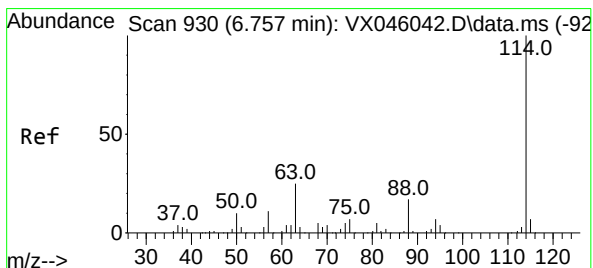
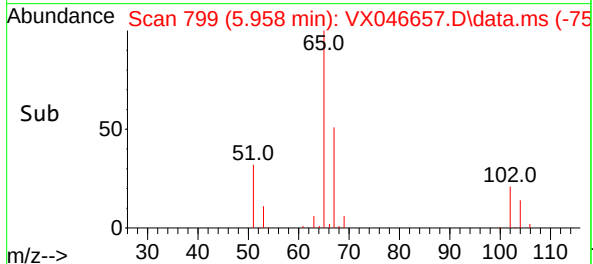
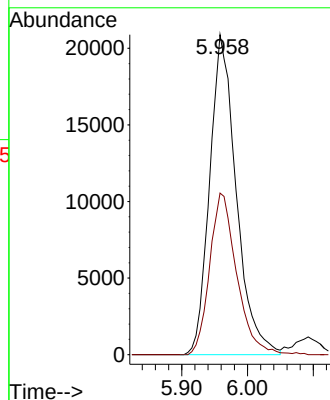
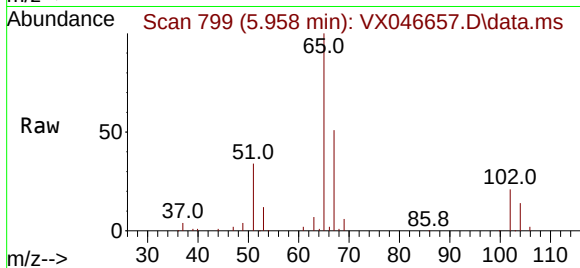
67 51.3 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

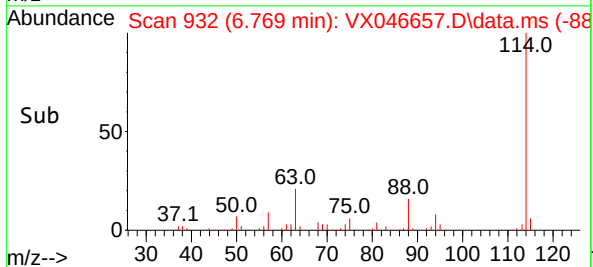
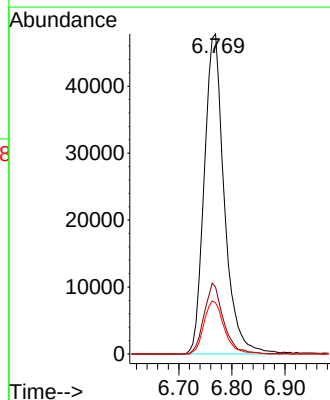
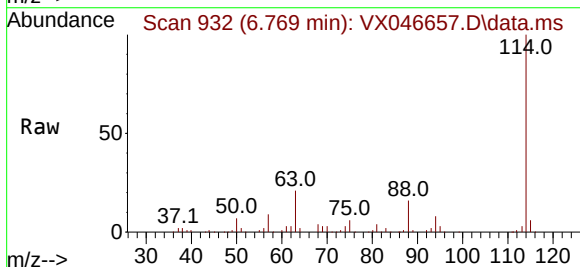
Tgt Ion:114 Resp: 125406

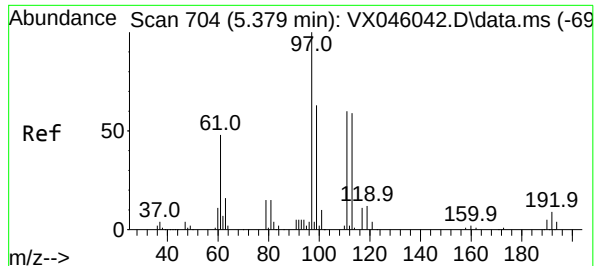
Ion Ratio Lower Upper

114 100

63 20.9 0.0 49.2

88 16.0 0.0 33.6





#35

Dibromofluoromethane

Concen: 59.078 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:113 Resp: 54484

Ion Ratio Lower Upper

113 100

111 100.8 83.1 124.7

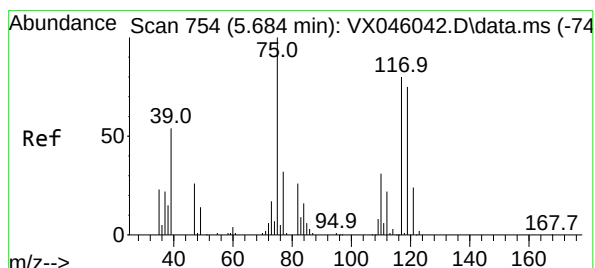
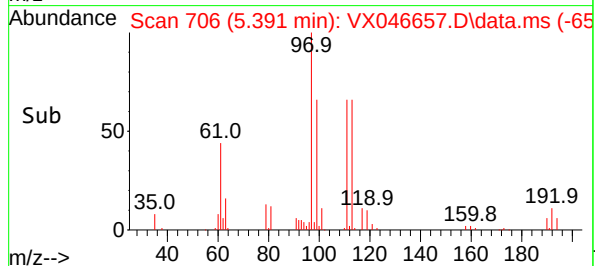
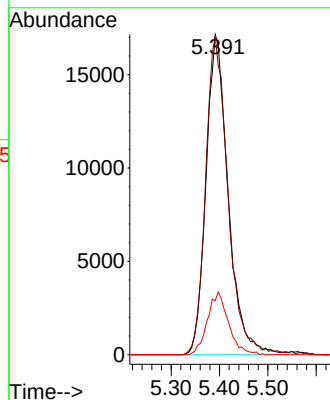
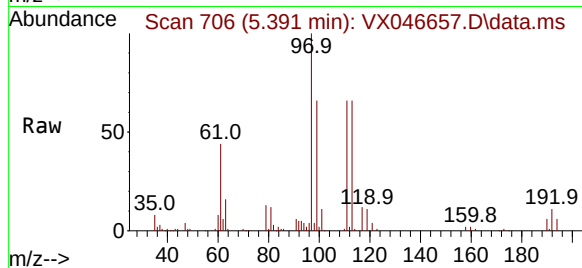
192 18.7 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#36

1,1-Dichloropropene

Concen: 48.205 ug/l

RT: 5.696 min Scan# 756

Delta R.T. -0.018 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

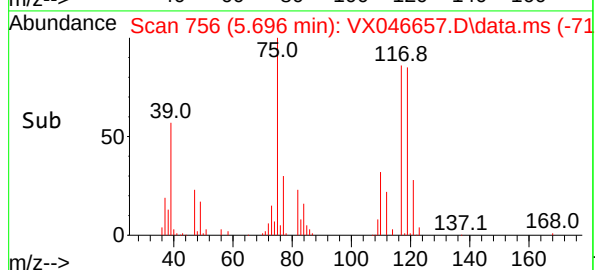
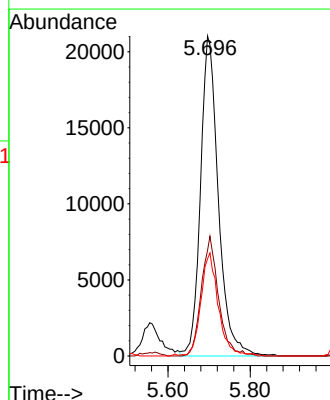
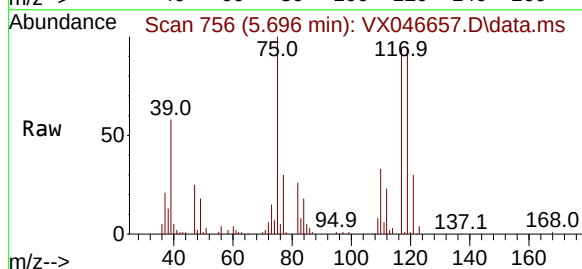
Tgt Ion: 75 Resp: 63502

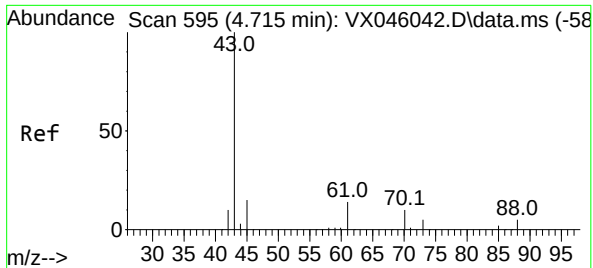
Ion Ratio Lower Upper

75 100

110 36.1 16.3 48.9

77 31.4 24.3 36.5





#37

Ethyl Acetate

Concen: 50.287 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

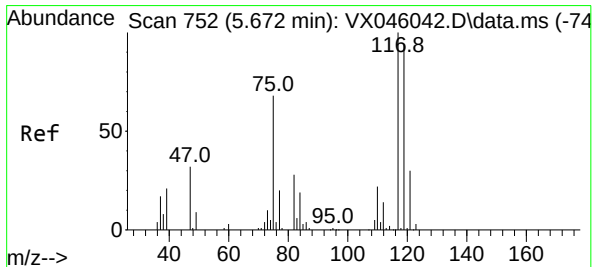
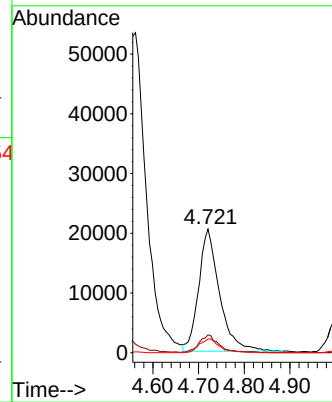
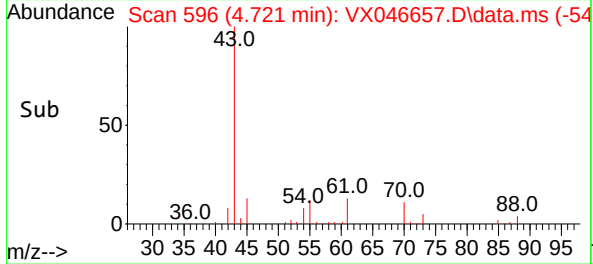
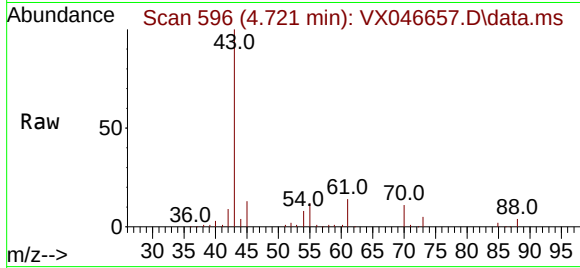
Tgt Ion:	43	Resp:	6465
Ion	Ratio	Lower	Upper
43	100		
61	12.9	10.3	15.5
70	11.0	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#38

Carbon Tetrachloride

Concen: 51.532 ug/l

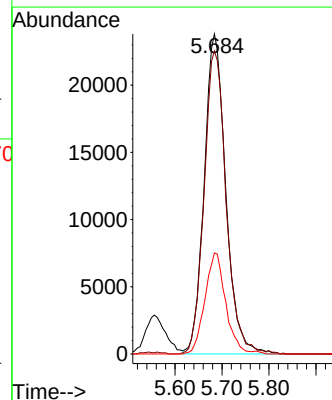
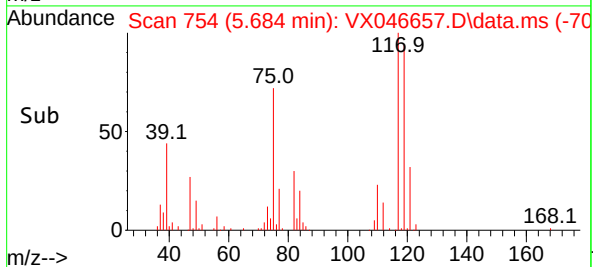
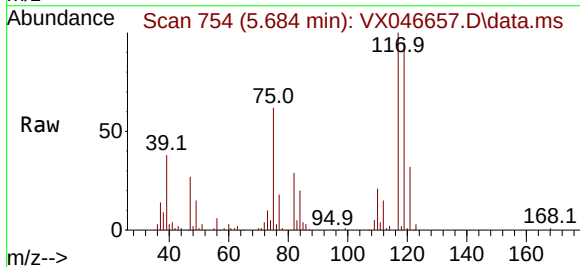
RT: 5.684 min Scan# 754

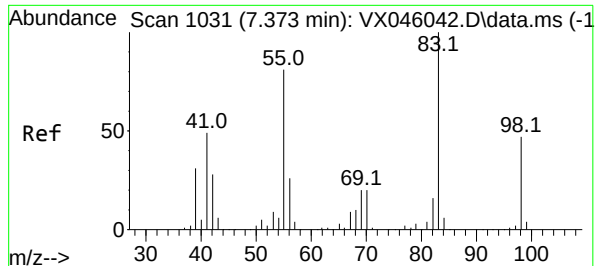
Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Tgt Ion:	117	Resp:	76036
Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.2	112.8
121	31.6	24.2	36.4





#39

Methylcyclohexane

Concen: 47.793 ug/l

RT: 7.385 min Scan# 1031

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 83 Resp: 74314

Ion Ratio Lower Upper

83 100

55 78.4 64.7 97.1

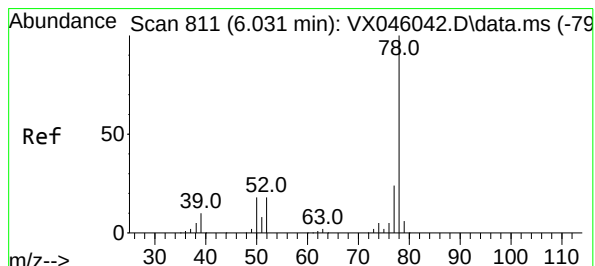
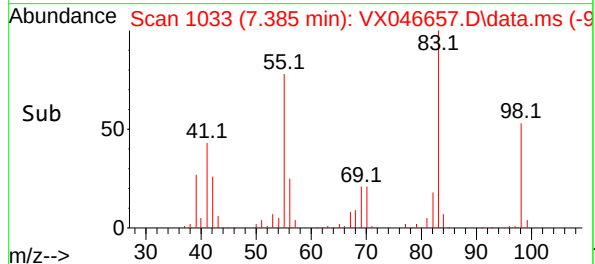
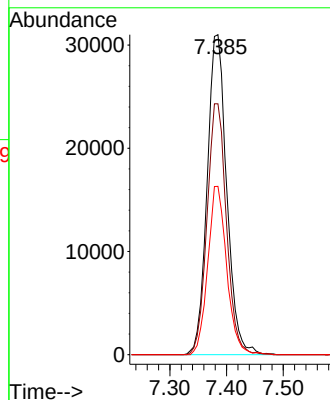
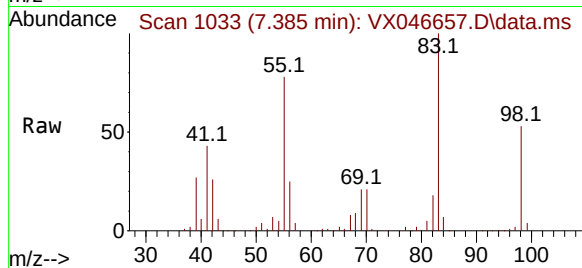
98 52.6 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#40

Benzene

Concen: 50.668 ug/l

RT: 6.043 min Scan# 813

Delta R.T. -0.013 min

Lab File: VX046657.D

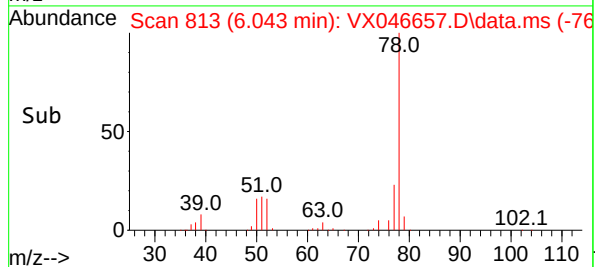
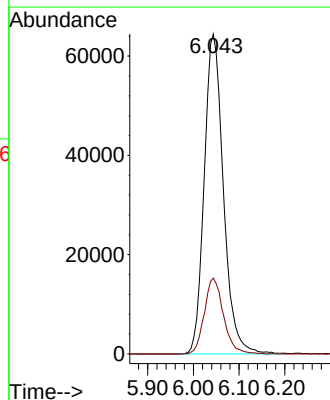
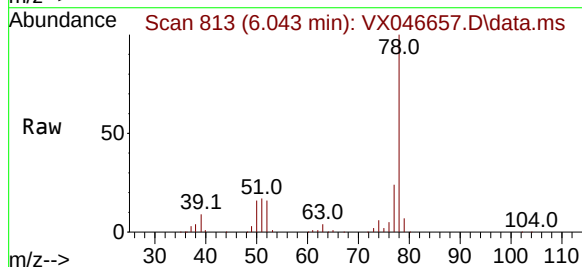
Acq: 12 Jun 2025 10:11

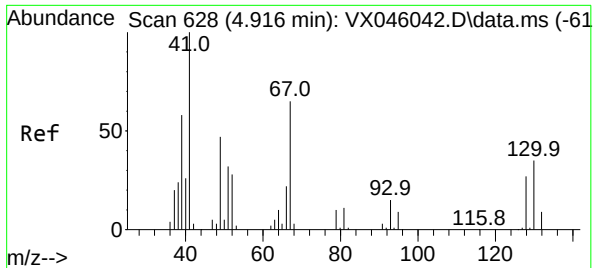
Tgt Ion: 78 Resp: 187904

Ion Ratio Lower Upper

78 100

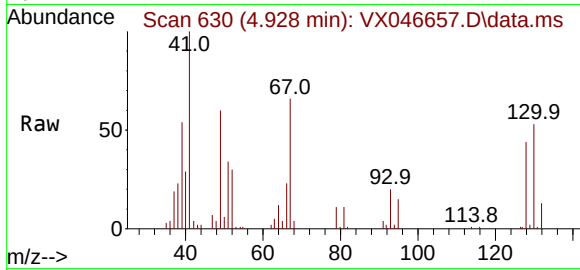
77 23.7 19.0 28.4





#41
Methacrylonitrile
Concen: 48.375 ug/l
RT: 4.928 min Scan# 61
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

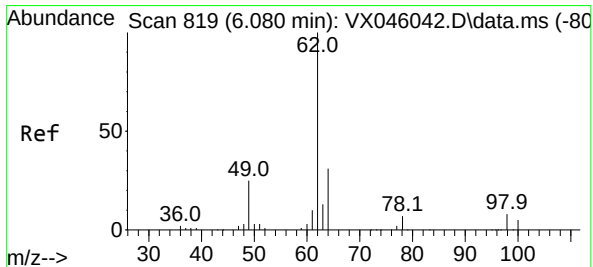
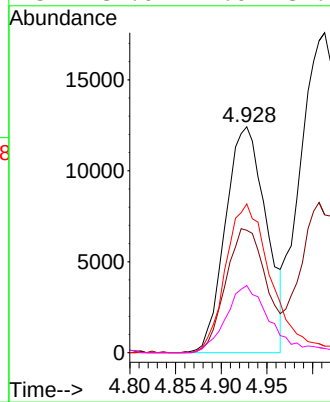
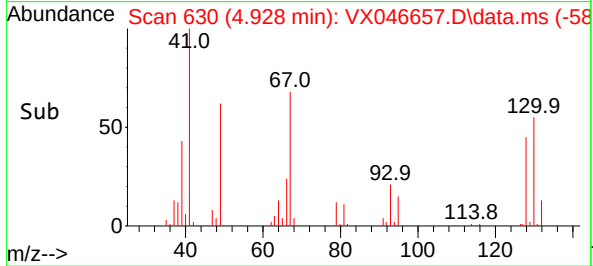
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 41 Resp: 3862
Ion Ratio Lower Upper
41 100
39 54.4 47.2 70.8
67 74.1 50.7 76.1
52 32.6 24.6 37.0

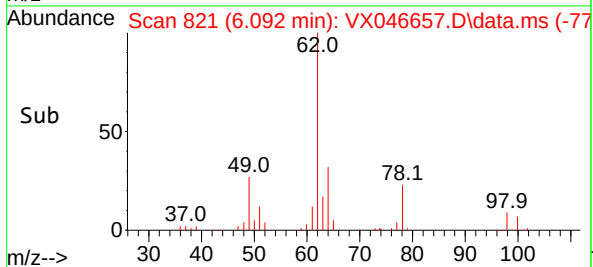
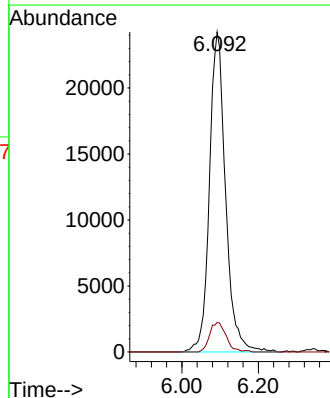
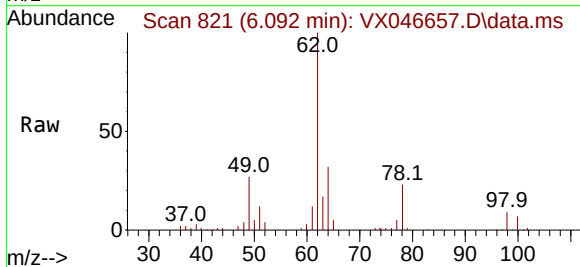
Manual Integrations
APPROVED

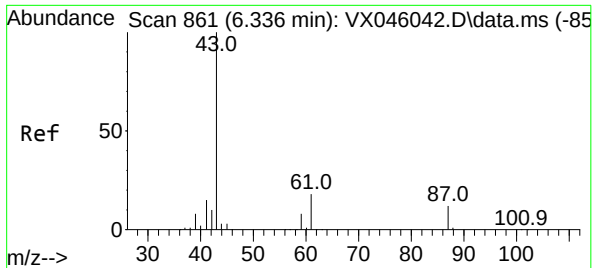
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#42
1,2-Dichloroethane
Concen: 45.968 ug/l
RT: 6.092 min Scan# 821
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

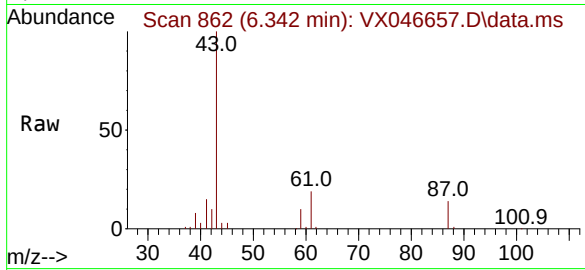
Tgt Ion: 62 Resp: 70921
Ion Ratio Lower Upper
62 100
98 9.4 0.0 15.2





#43
Isopropyl Acetate
Concen: 46.166 ug/l
RT: 6.342 min Scan# 862
Delta R.T. -0.012 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

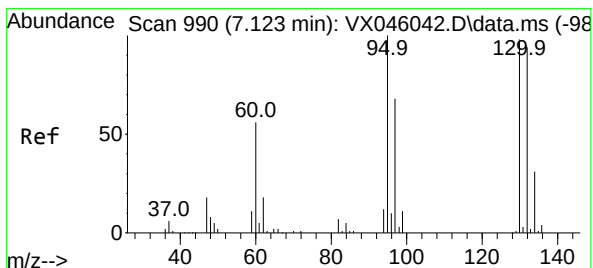
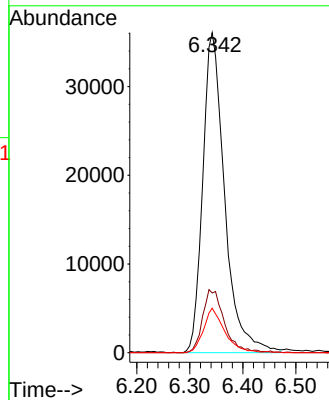
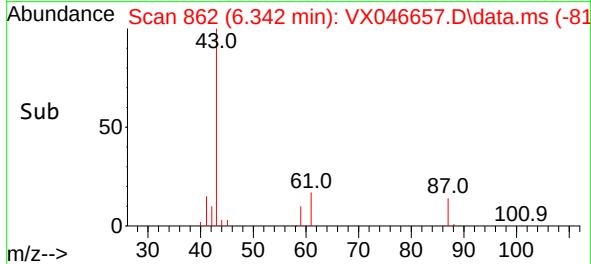
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion: 43 Resp: 103479
Ion Ratio Lower Upper
43 100
61 19.5 14.3 21.5
87 13.3 9.5 14.3

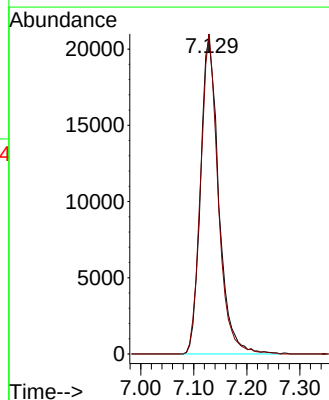
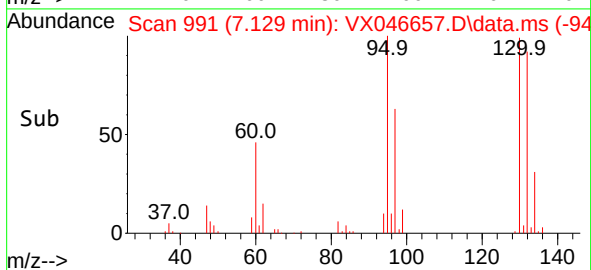
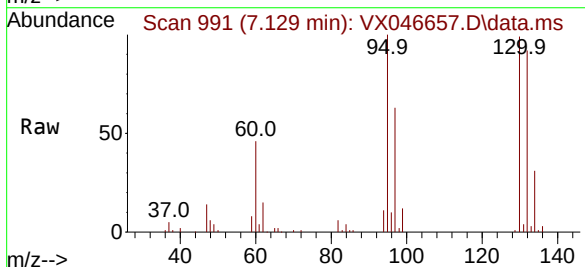
Manual Integrations
APPROVED

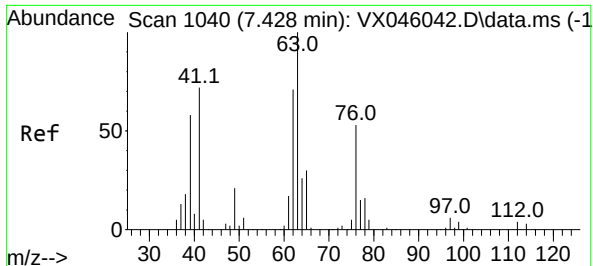
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#44
Trichloroethene
Concen: 52.401 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:130 Resp: 49377
Ion Ratio Lower Upper
130 100
95 101.2 0.0 204.2





#45

1,2-Dichloropropane

Concen: 51.789 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 63 Resp: 49574

Ion Ratio Lower Upper

63 100

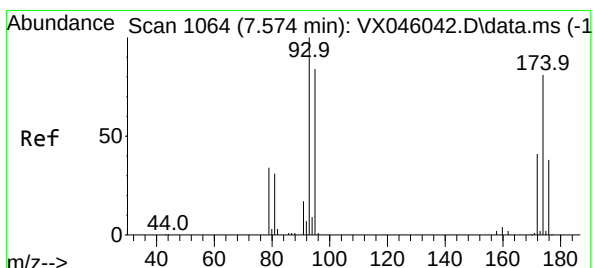
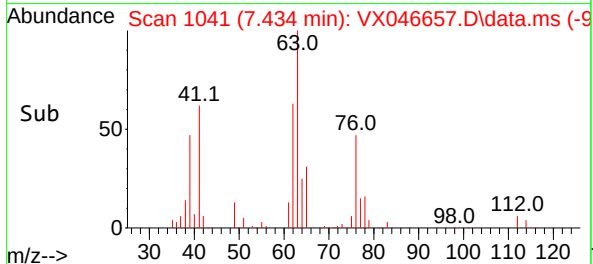
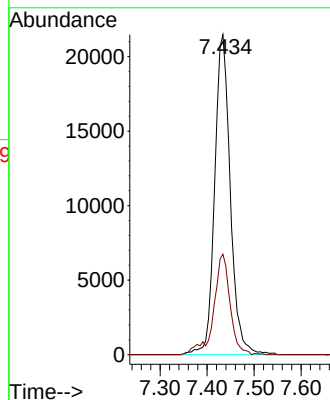
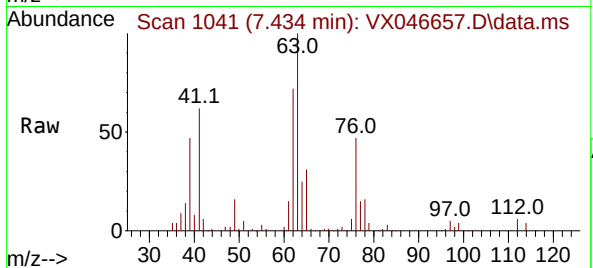
65 31.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#46

Dibromomethane

Concen: 44.374 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

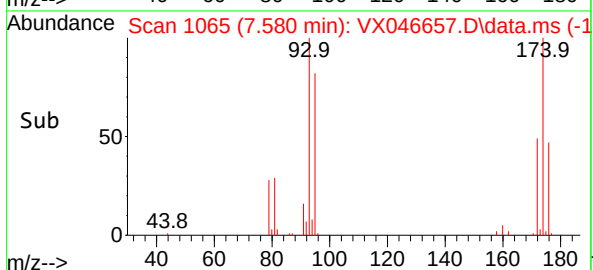
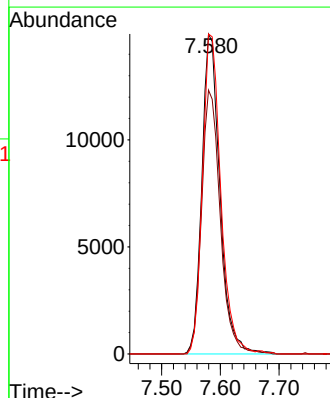
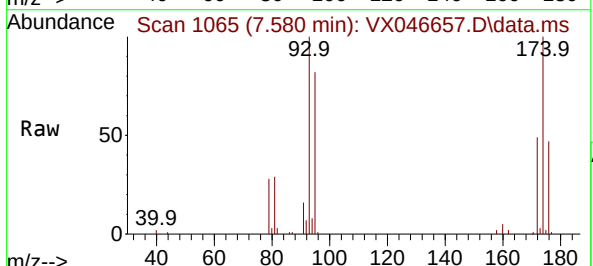
Tgt Ion: 93 Resp: 31955

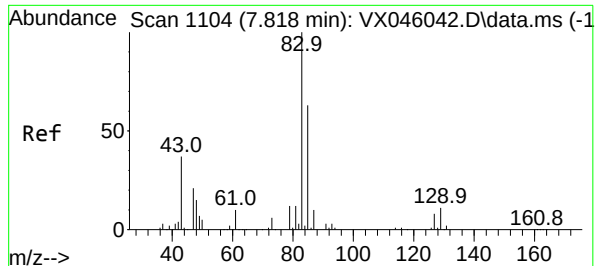
Ion Ratio Lower Upper

93 100

95 84.9 65.6 98.4

174 101.3 68.2 102.2





#47

Bromodichloromethane

Concen: 46.922 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

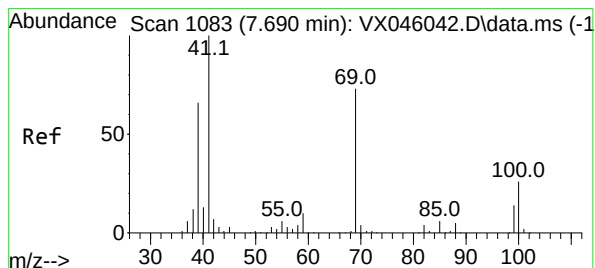
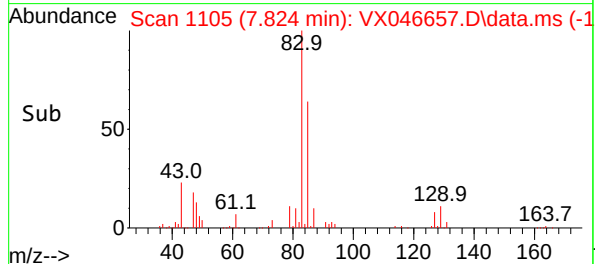
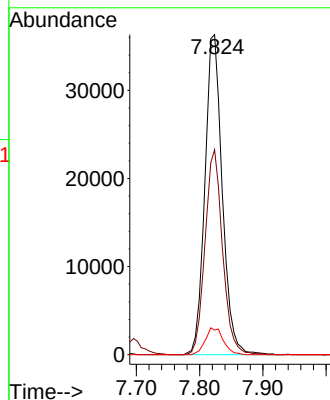
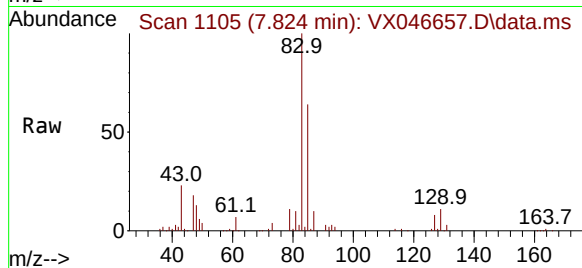
Tgt Ion:	83	Resp:	69470
Ion	Ratio	Lower	Upper
83	100		
85	64.1	50.5	75.7
127	7.7	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#48

Methyl methacrylate

Concen: 39.931 ug/l

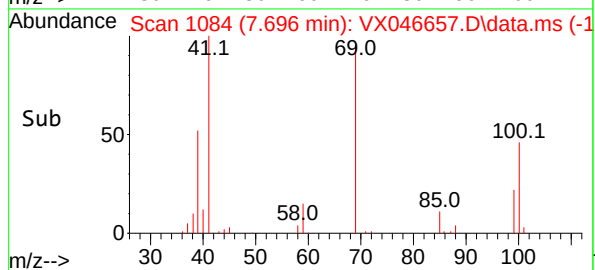
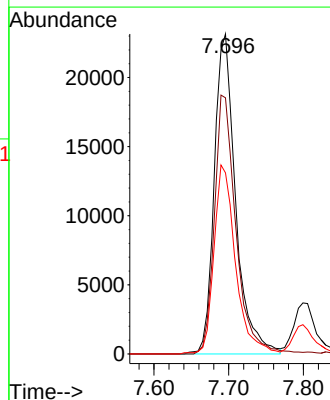
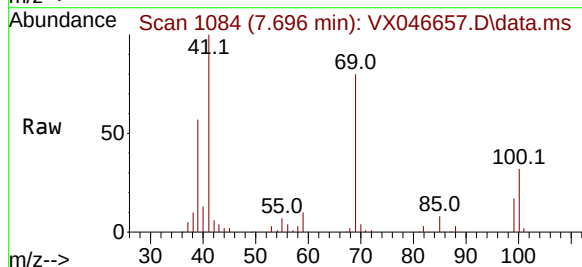
RT: 7.696 min Scan# 1084

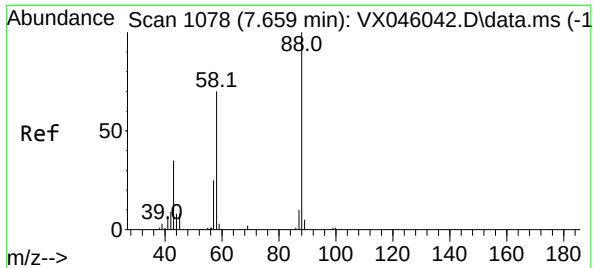
Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Tgt Ion:	41	Resp:	46050
Ion	Ratio	Lower	Upper
41	100		
69	81.8	58.5	87.7
39	59.7	51.7	77.5





#49

1,4-Dioxane

Concen: 833.741 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 88 Resp: 1285

Ion Ratio Lower Upper

88 100

43 39.6 33.4 50.2

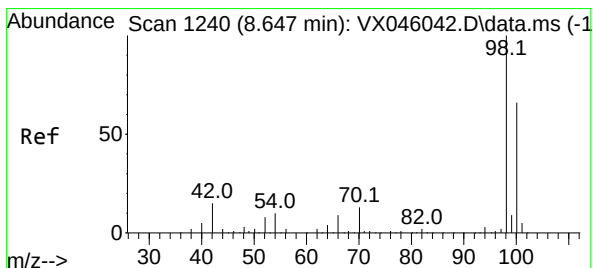
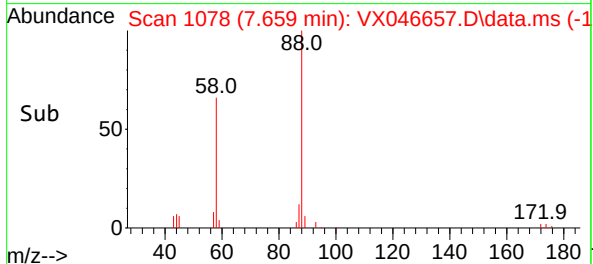
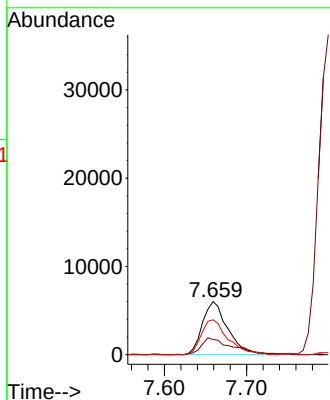
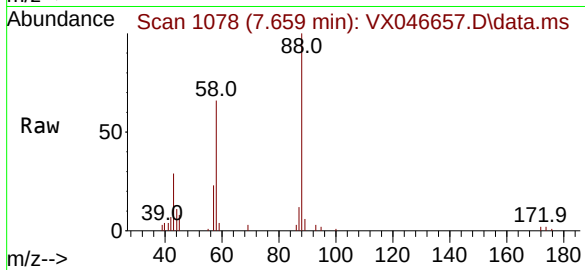
58 68.6 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#50

Toluene-d8

Concen: 56.439 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX046657.D

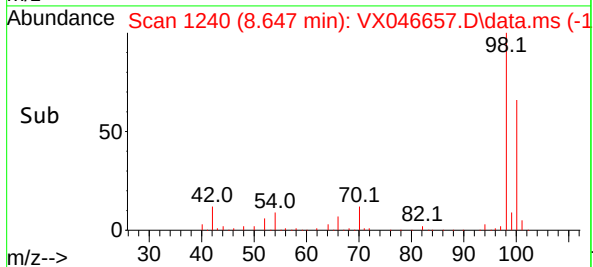
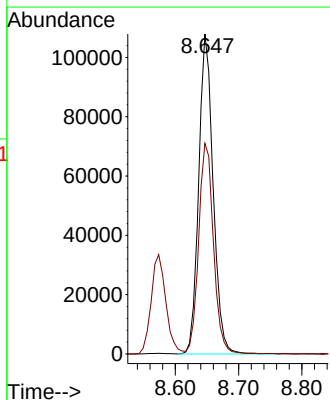
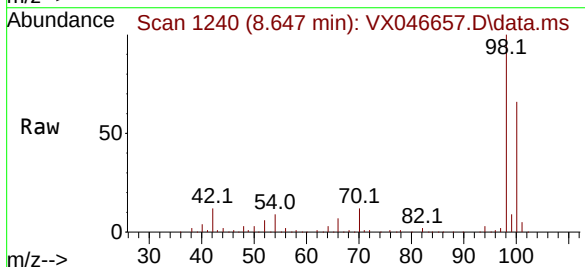
Acq: 12 Jun 2025 10:11

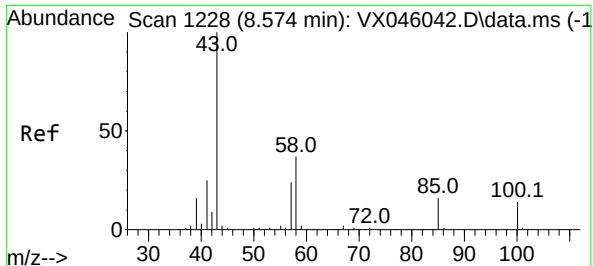
Tgt Ion: 98 Resp: 171603

Ion Ratio Lower Upper

98 100

100 67.2 53.5 80.3





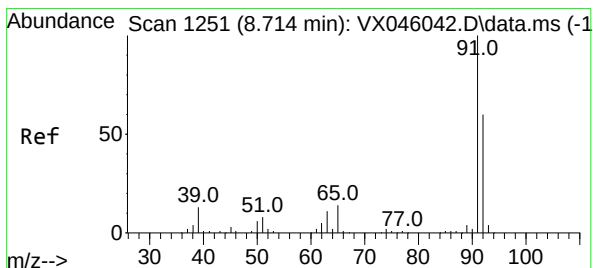
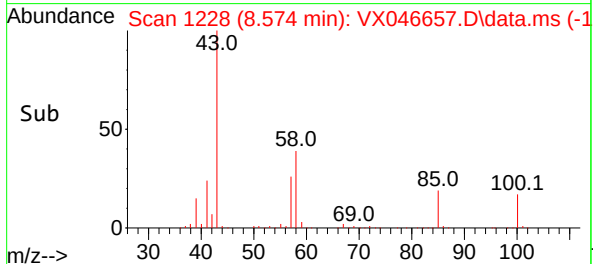
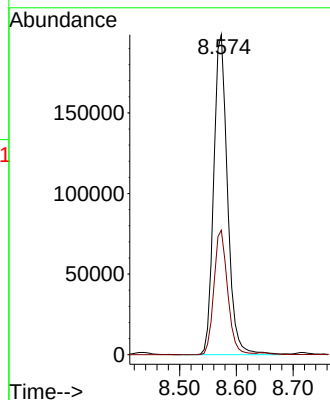
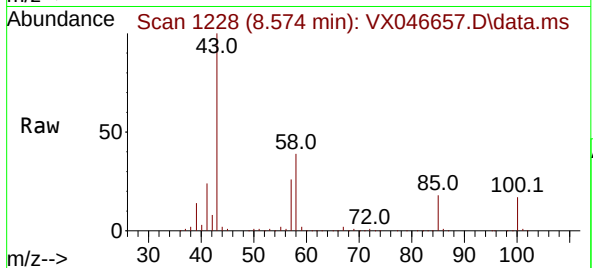
#51
4-Methyl-2-Pentanone
Concen: 235.853 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.001 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 43 Resp: 33593
Ion Ratio Lower Upper
43 100
58 38.6 28.9 43.3

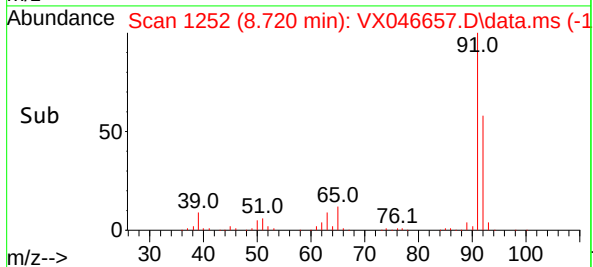
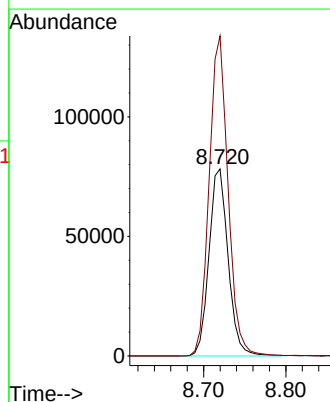
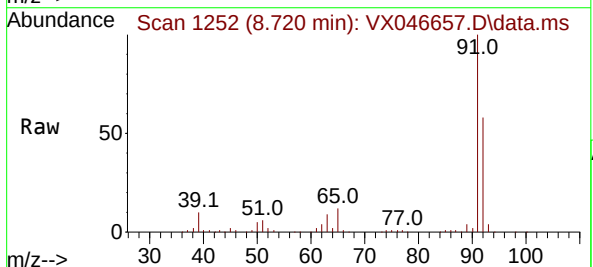
Manual Integrations
APPROVED

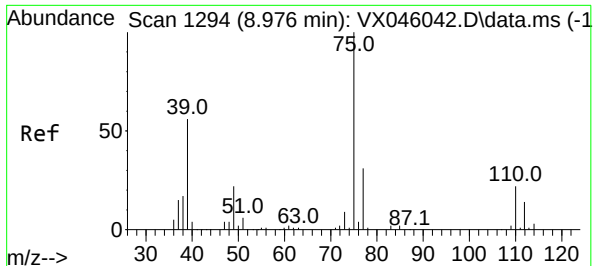
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#52
Toluene
Concen: 55.498 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion: 92 Resp: 126444
Ion Ratio Lower Upper
92 100
91 168.9 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 55.952 ug/l

RT: 8.976 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 75 Resp: 7428

Ion Ratio Lower Upper

75 100

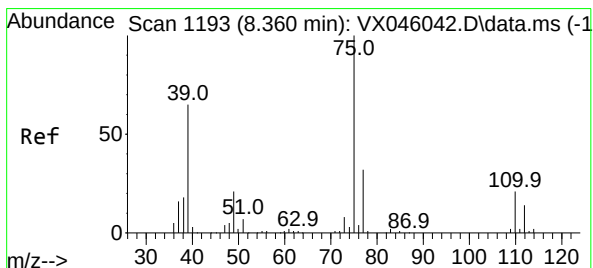
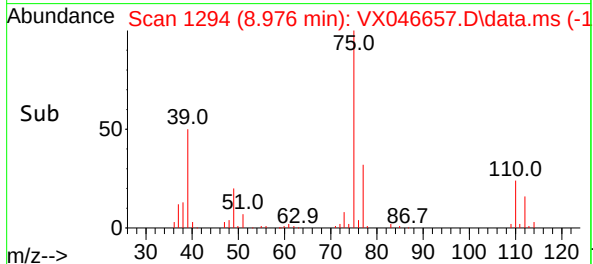
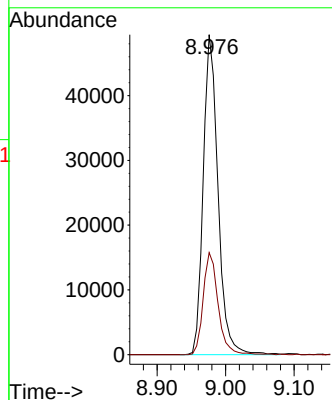
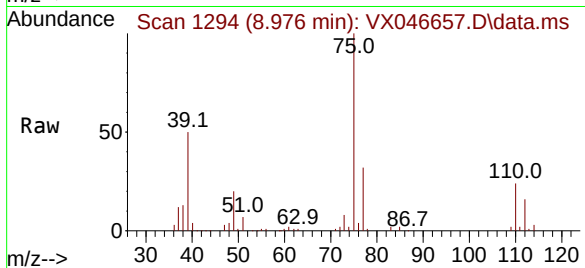
77 31.9 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#54

cis-1,3-Dichloropropene

Concen: 52.698 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

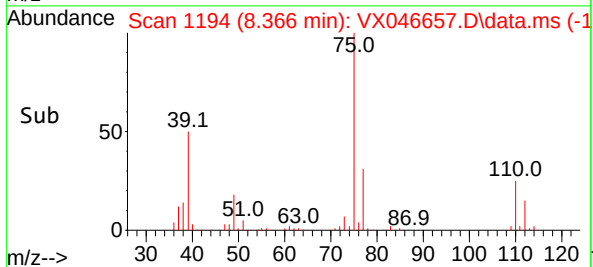
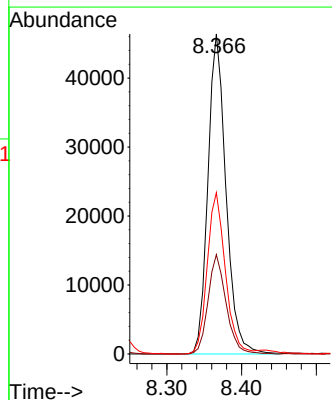
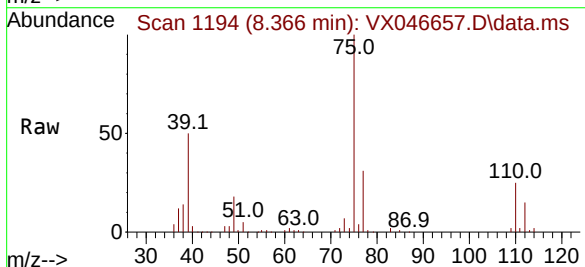
Tgt Ion: 75 Resp: 77787

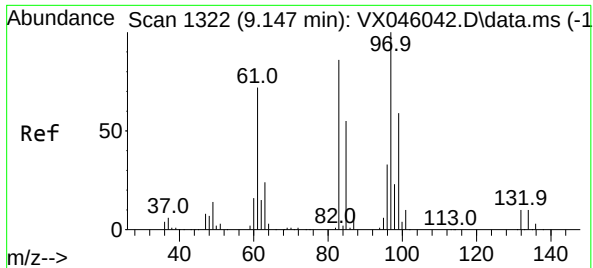
Ion Ratio Lower Upper

75 100

77 31.1 25.4 38.0

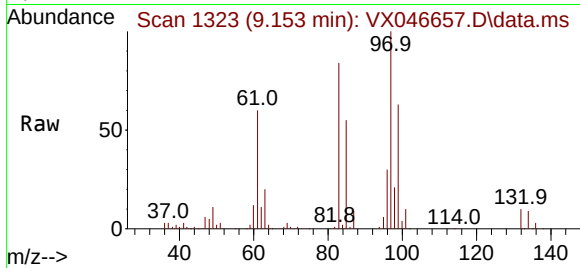
39 50.4 52.2 78.4#





#55
1,1,2-Trichloroethane
Concen: 58.018 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

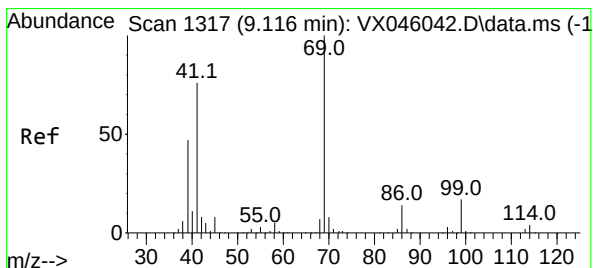
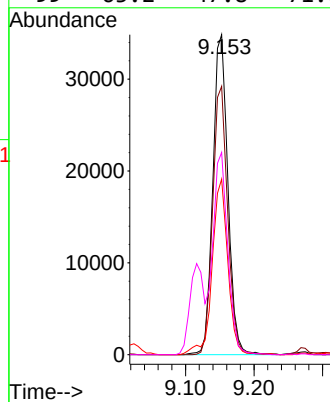
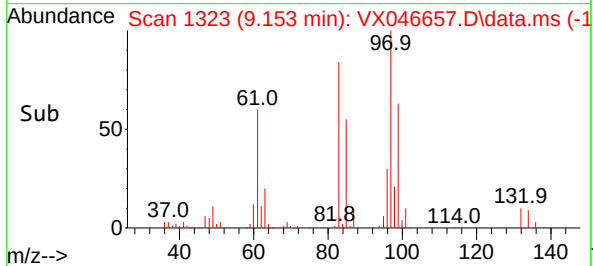
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



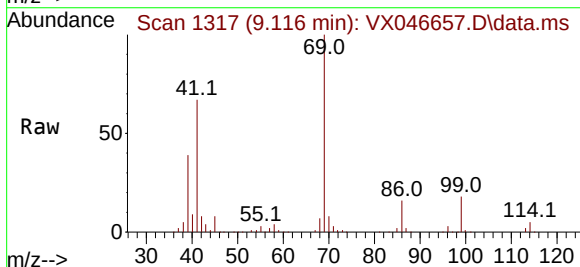
Tgt Ion: 97 Resp: 53060
Ion Ratio Lower Upper
97 100
83 83.8 69.0 103.6
85 54.9 44.3 66.5
99 63.2 47.8 71.6

Manual Integrations
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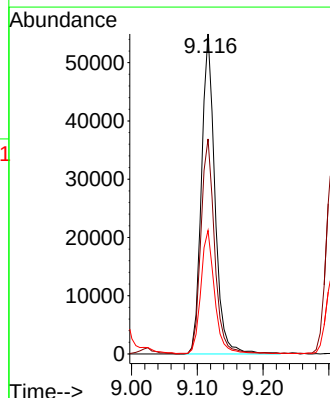
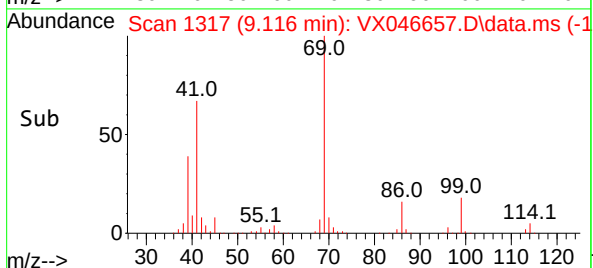
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

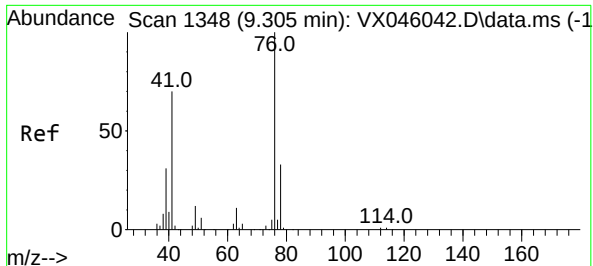


#56
Ethyl methacrylate
Concen: 55.570 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11



Tgt Ion: 69 Resp: 78215
Ion Ratio Lower Upper
69 100
41 69.2 60.8 91.2
39 39.2 39.0 58.6





#57

1,3-Dichloropropane

Concen: 53.544 ug/l

RT: 9.305 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 76 Resp: 8654

Ion Ratio Lower Upper

76 100

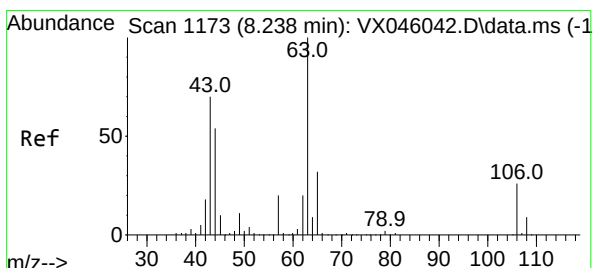
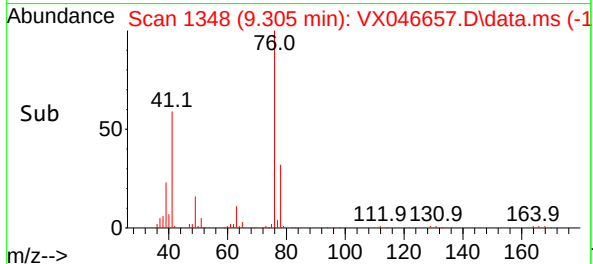
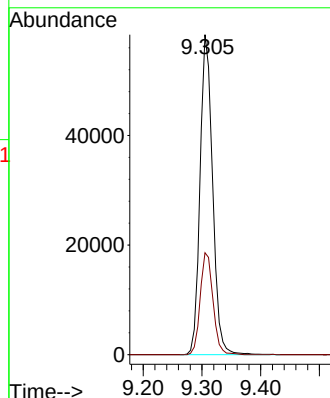
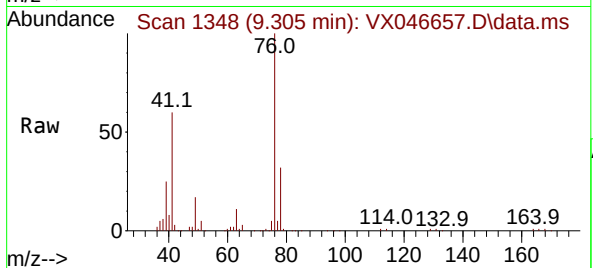
78 32.4 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#58

2-Chloroethyl Vinyl ether

Concen: 238.457 ug/l

RT: 8.238 min Scan# 1173

Delta R.T. -0.006 min

Lab File: VX046657.D

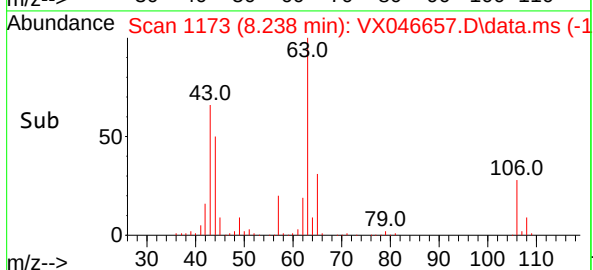
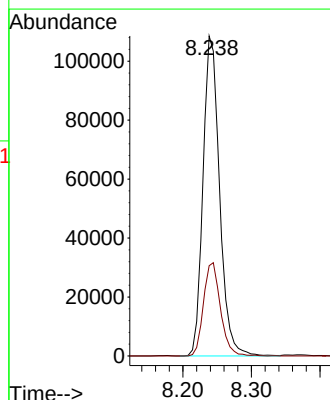
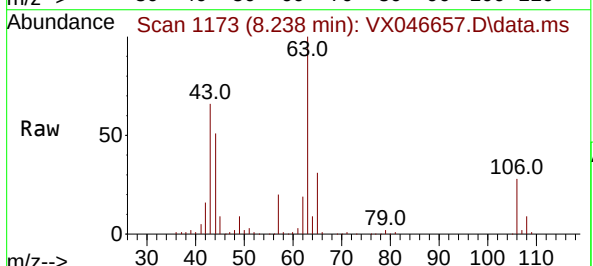
Acq: 12 Jun 2025 10:11

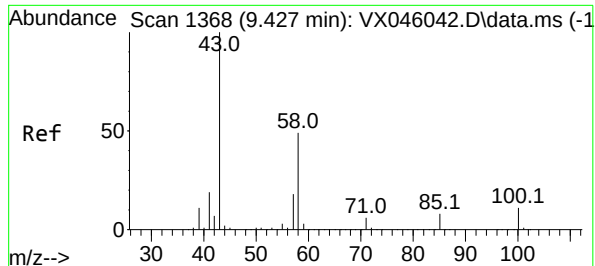
Tgt Ion: 63 Resp: 182816

Ion Ratio Lower Upper

63 100

106 29.9 21.5 32.3





#59

2-Hexanone

Concen: 235.732 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 43 Resp: 24080

Ion Ratio Lower Upper

43 100

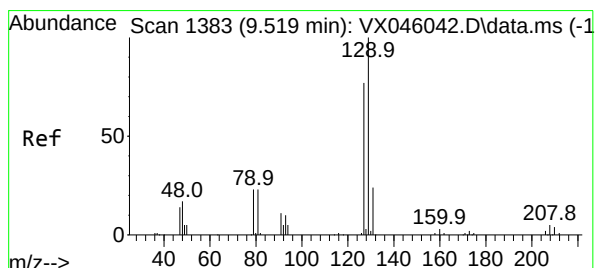
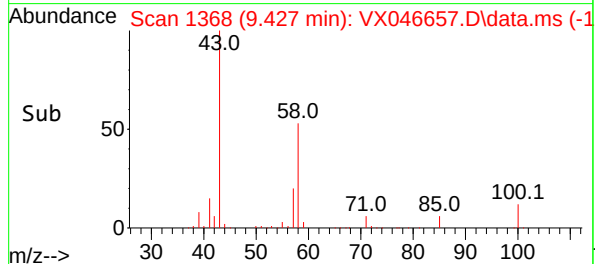
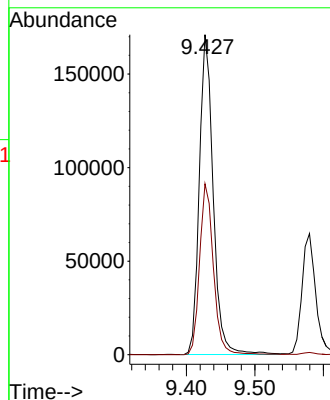
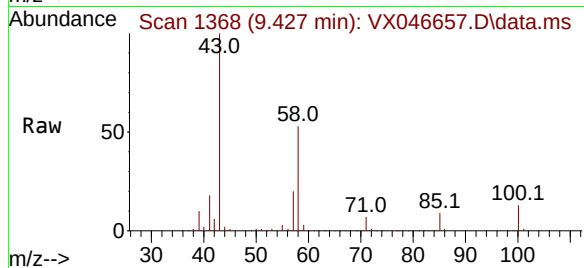
58 53.5 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#60

Dibromochloromethane

Concen: 58.299 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VX046657.D

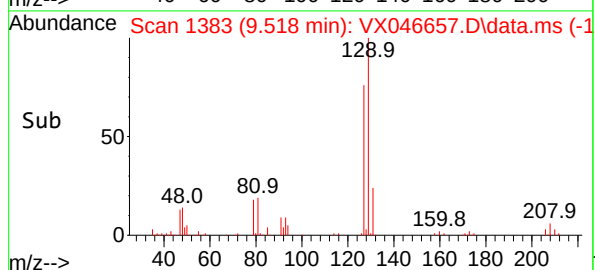
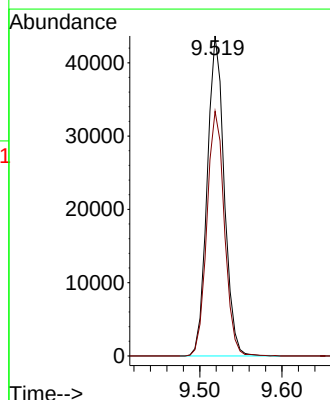
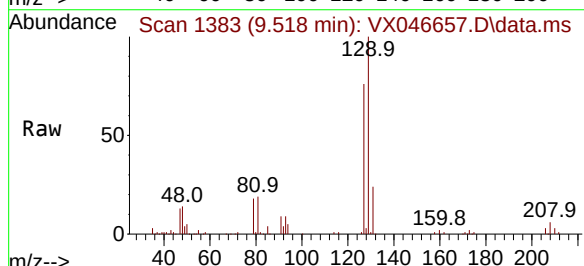
Acq: 12 Jun 2025 10:11

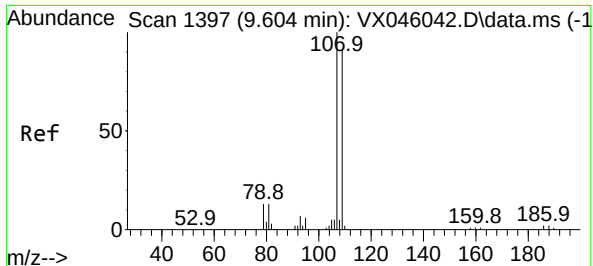
Tgt Ion:129 Resp: 62722

Ion Ratio Lower Upper

129 100

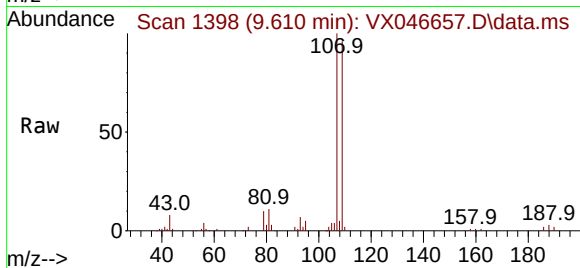
127 78.6 39.3 117.8





#61
1,2-Dibromoethane
Concen: 54.621 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

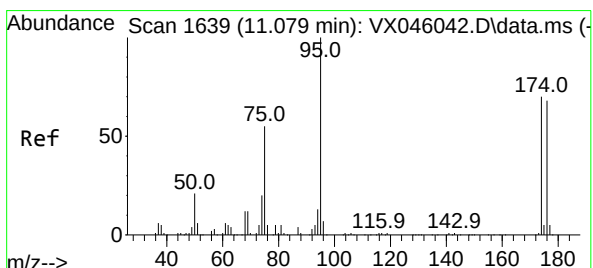
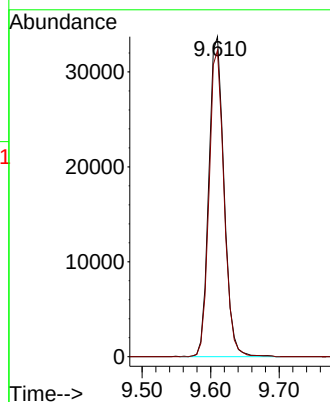
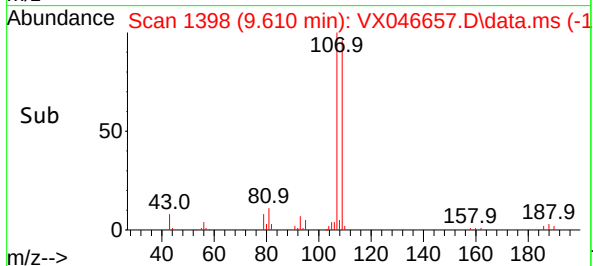
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:107 Resp: 52060
Ion Ratio Lower Upper
107 100
109 94.5 73.3 109.9

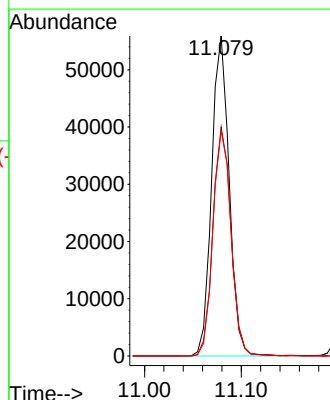
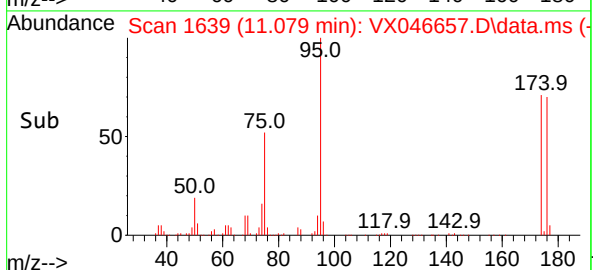
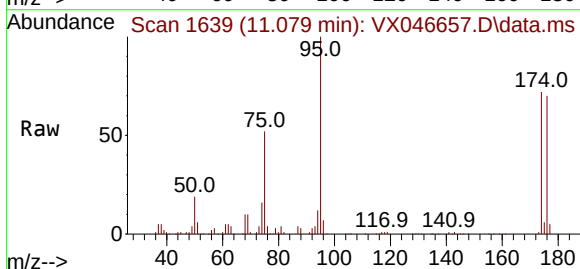
Manual Integrations
APPROVED

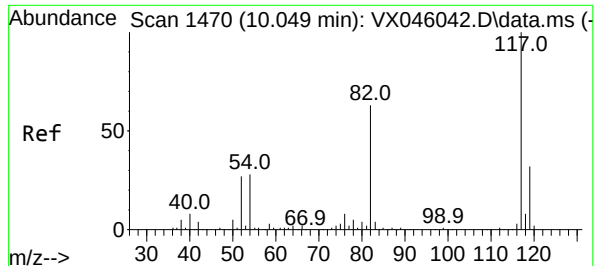
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 55.919 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

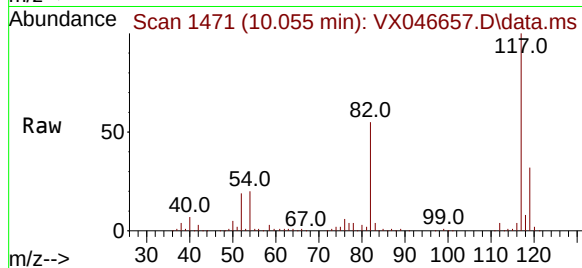
Tgt Ion: 95 Resp: 70345
Ion Ratio Lower Upper
95 100
174 74.1 0.0 135.8
176 72.6 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

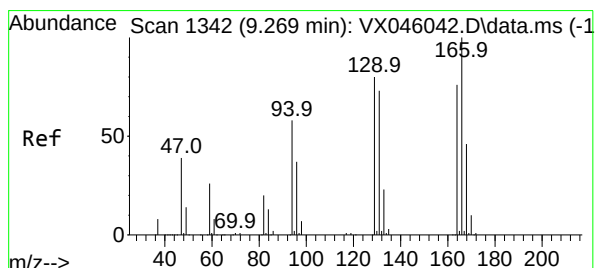
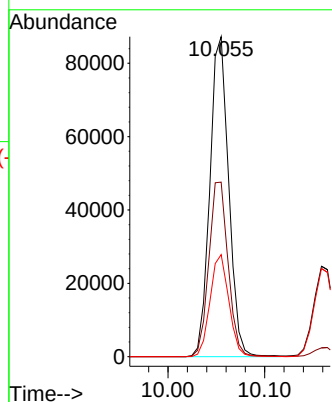
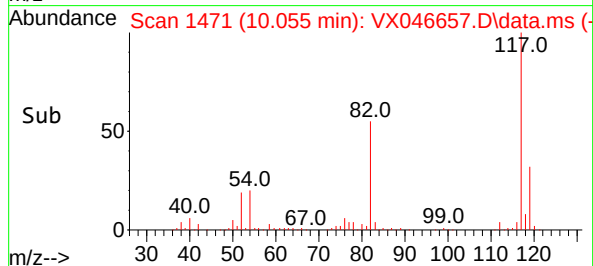
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:117 Resp: 11810
Ion Ratio Lower Upper
117 100
82 54.6 50.6 76.0
119 31.9 25.8 38.6

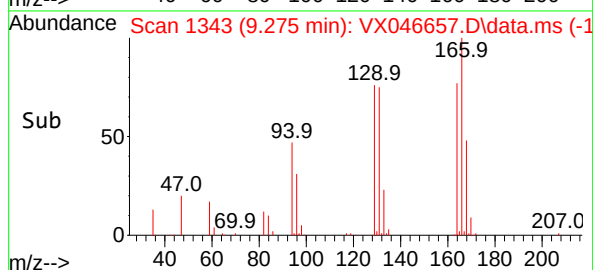
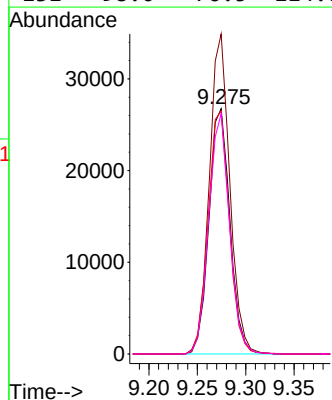
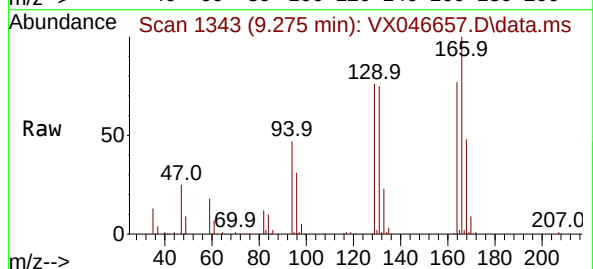
Manual Integrations
APPROVED

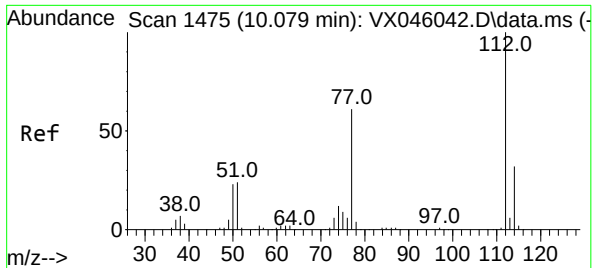
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#64
Tetrachloroethene
Concen: 51.184 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

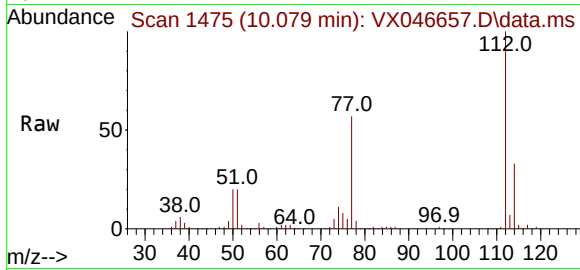
Tgt Ion:164 Resp: 40422
Ion Ratio Lower Upper
164 100
166 130.5 105.0 157.6
129 99.1 83.5 125.3
131 98.0 76.5 114.7





#65
Chlorobenzene
Concen: 51.968 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

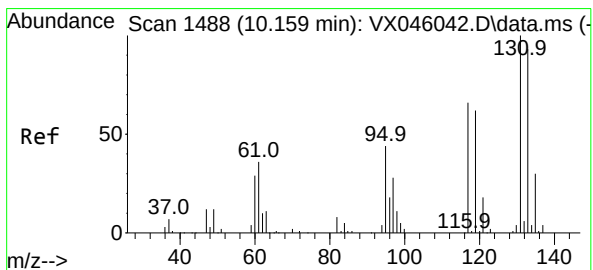
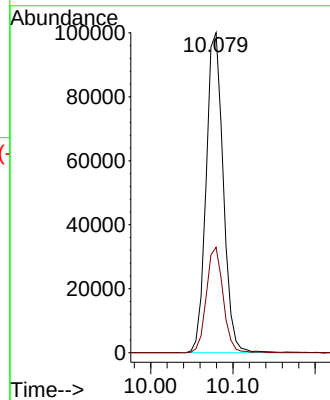
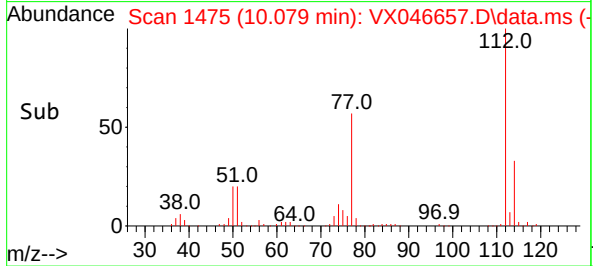
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:112 Resp: 14434
Ion Ratio Lower Upper
112 100
114 33.0 25.4 38.2

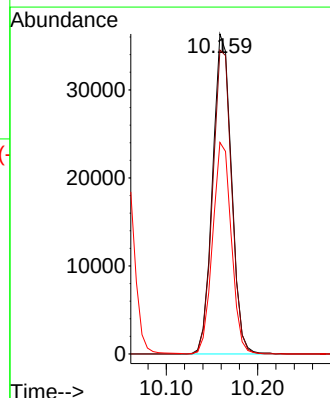
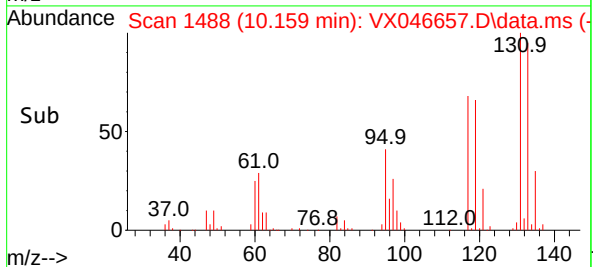
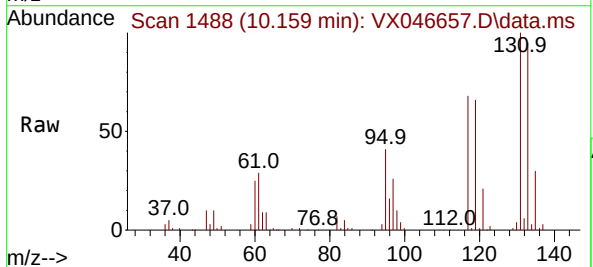
Manual Integrations
APPROVED

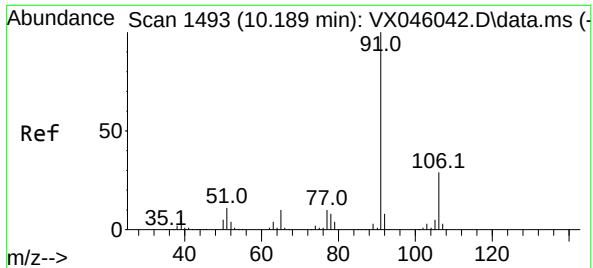
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 55.422 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:131 Resp: 52019
Ion Ratio Lower Upper
131 100
133 95.6 47.3 141.9
119 65.3 31.6 95.0





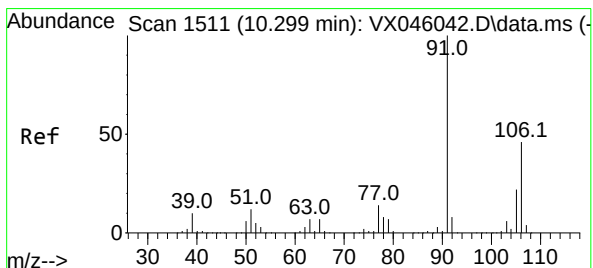
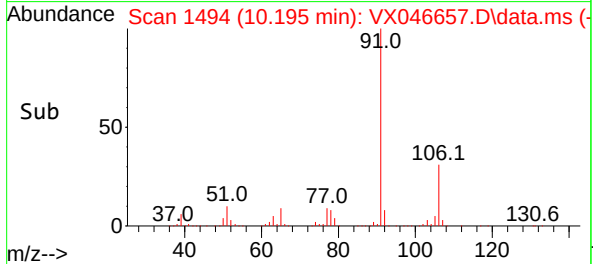
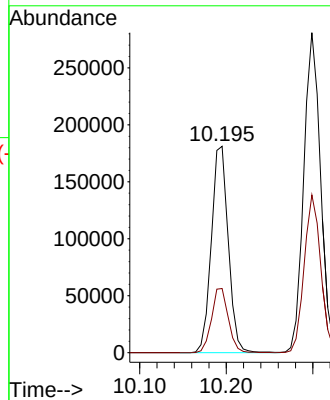
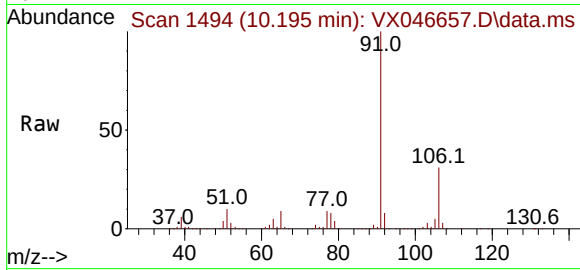
#67
Ethyl Benzene
Concen: 50.760 ug/l
RT: 10.195 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 246134
Ion Ratio Lower Upper
91 100
106 31.1 23.4 35.2

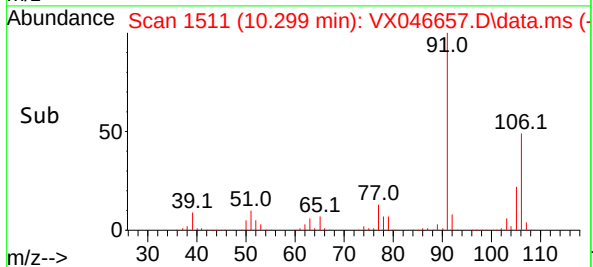
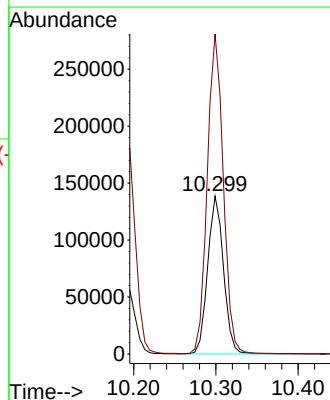
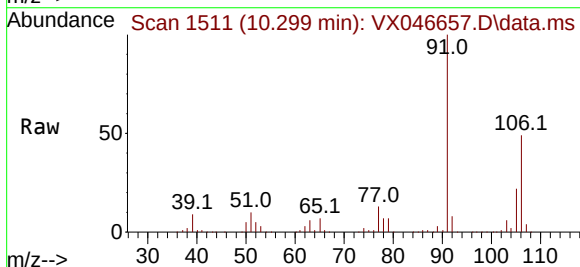
Manual Integrations
APPROVED

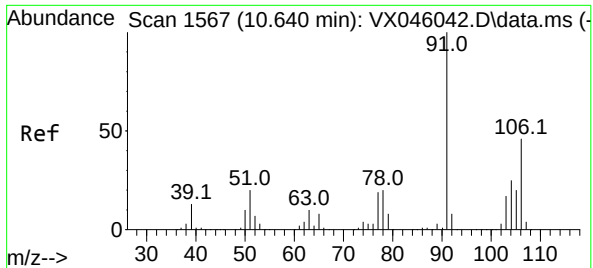
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#68
m/p-Xylenes
Concen: 105.170 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:106 Resp: 184992
Ion Ratio Lower Upper
106 100
91 206.1 171.2 256.8





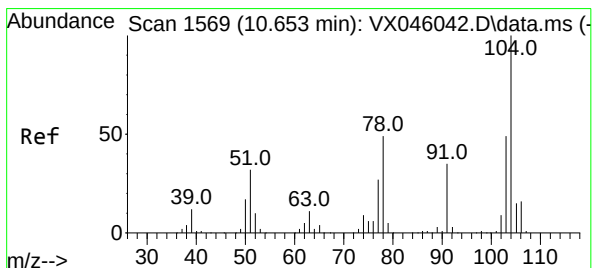
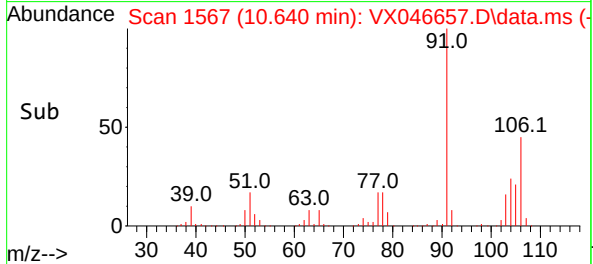
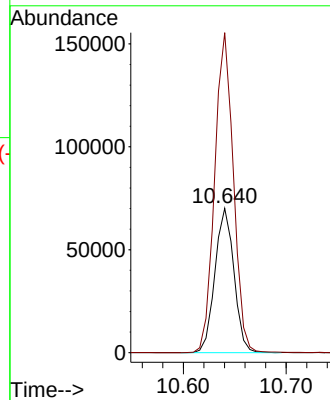
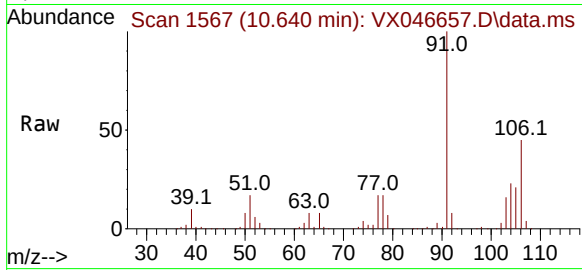
#69
o-Xylene
Concen: 53.091 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion:106 Resp: 9032
Ion Ratio Lower Upper
106 100
91 218.6 112.7 338.1

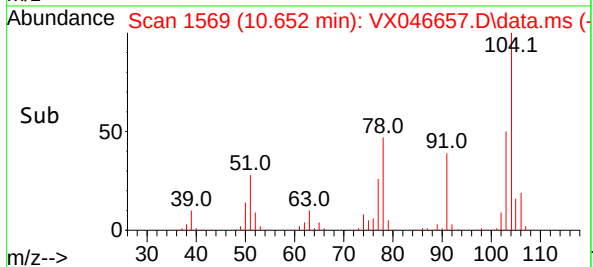
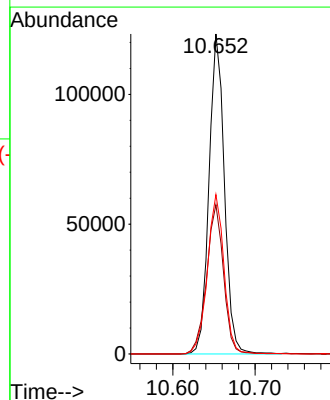
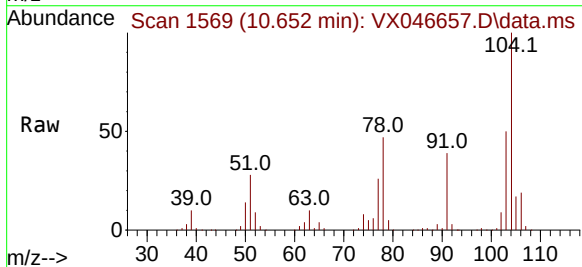
Manual Integrations
APPROVED

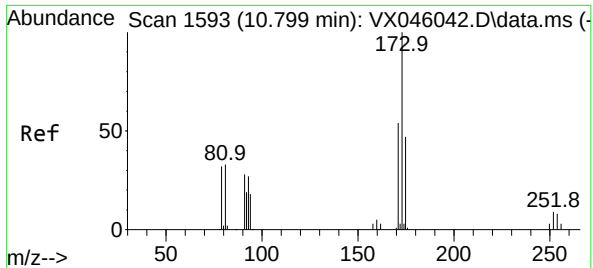
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#70
Styrene
Concen: 55.006 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

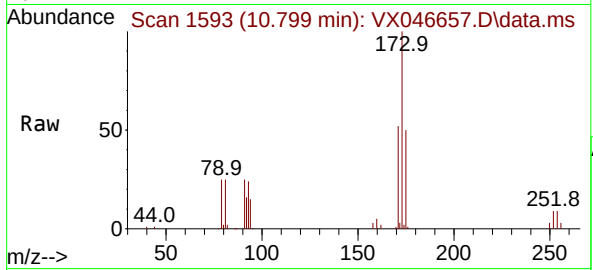
Tgt Ion:104 Resp: 160199
Ion Ratio Lower Upper
104 100
78 51.4 45.7 68.5
103 54.2 43.7 65.5





#71
Bromoform
Concen: 57.113 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

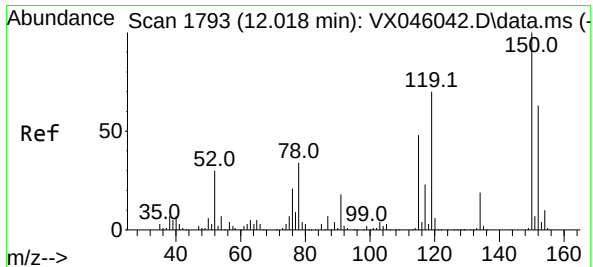
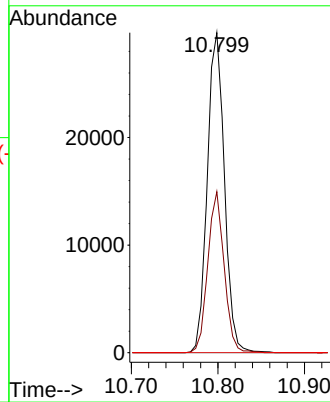
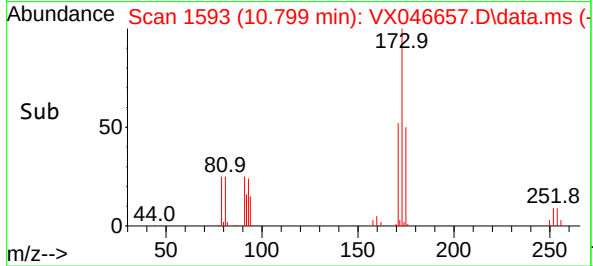
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:173 Resp: 40874
Ion Ratio Lower Upper
173 100
175 48.2 23.4 70.0
254 0.0 0.0 0.0

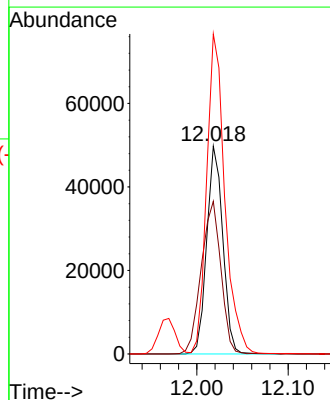
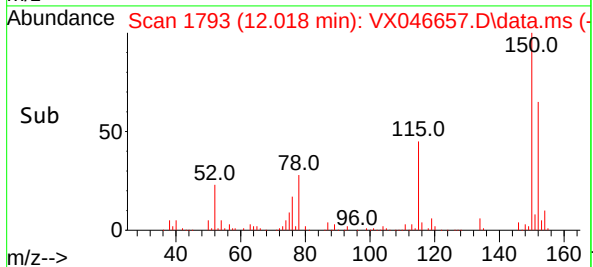
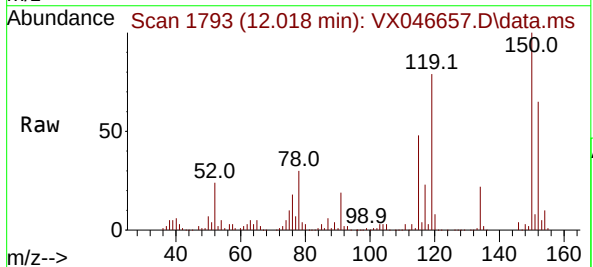
Manual Integrations
APPROVED

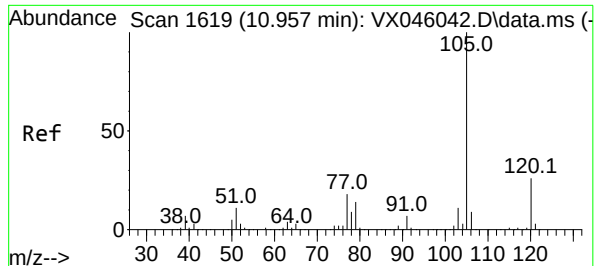
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:152 Resp: 60636
Ion Ratio Lower Upper
152 100
115 90.0 46.9 140.7
150 173.0 0.0 351.0





#73

Isopropylbenzene

Concen: 51.704 ug/l

RT: 10.957 min Scan# 1619

Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:105 Resp: 246450

Ion Ratio Lower Upper

105 100

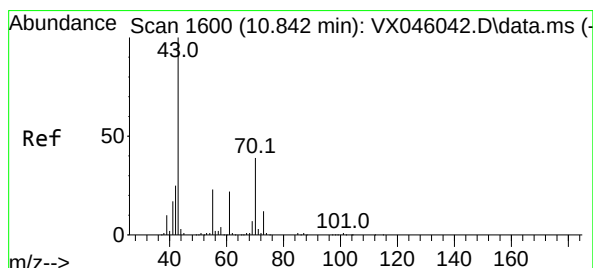
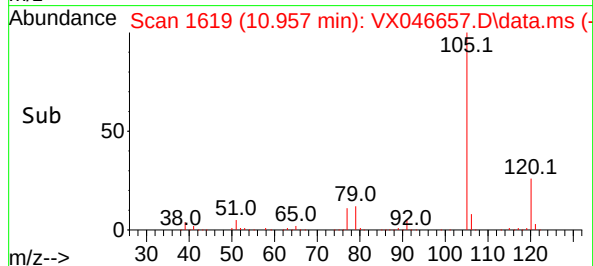
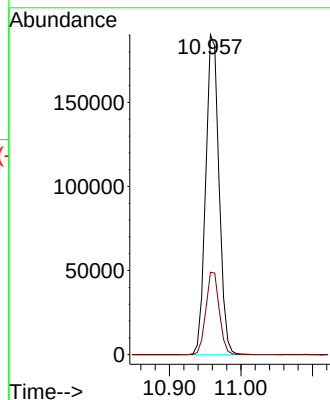
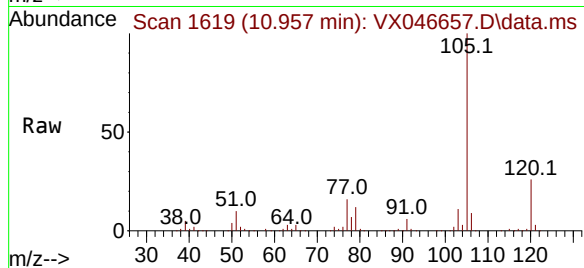
120 26.0 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#74

N-ethyl acetate

Concen: 45.978 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Tgt Ion: 43 Resp: 96513

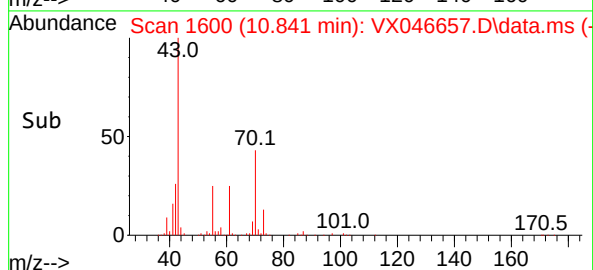
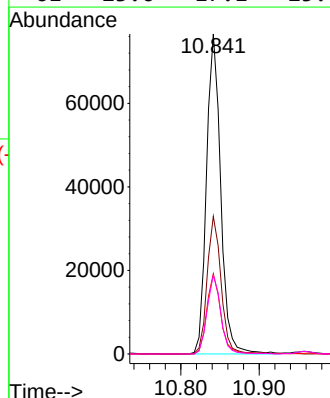
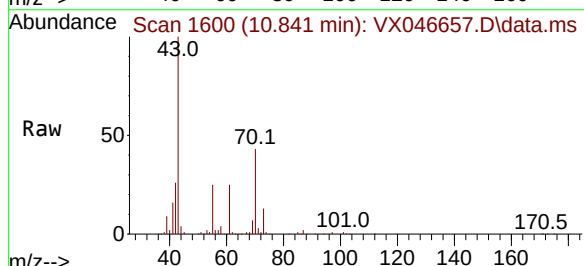
Ion Ratio Lower Upper

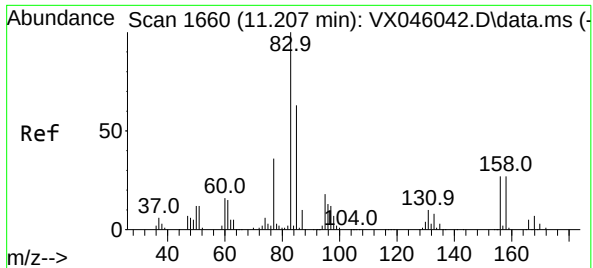
43 100

70 42.1 30.9 46.3

55 24.6 18.7 28.1

61 23.6 17.1 25.7





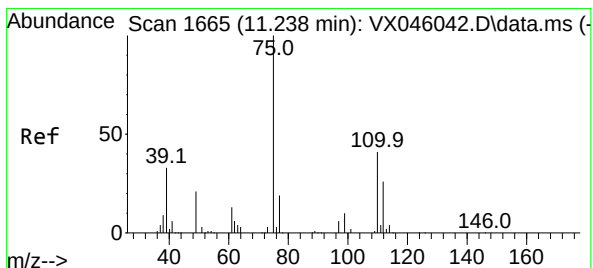
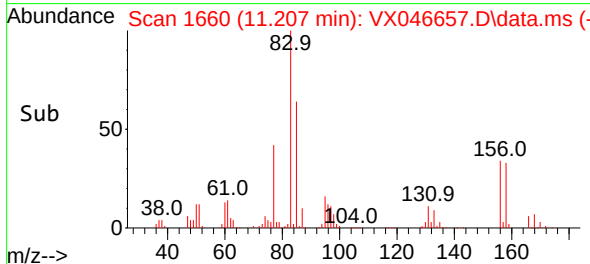
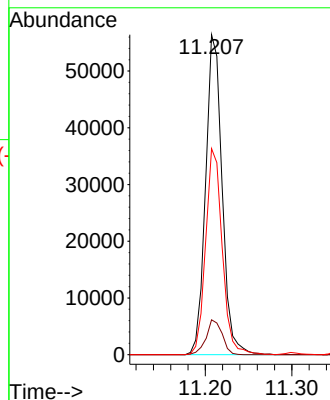
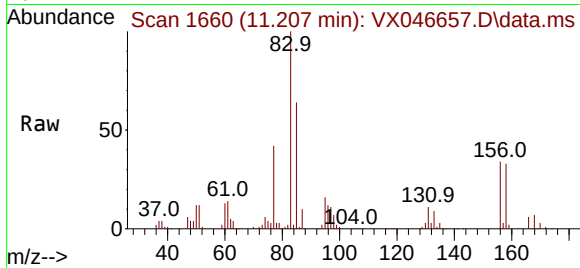
#75
1,1,2,2-Tetrachloroethane
Concen: 48.967 ug/l
RT: 11.207 min Scan# 1660
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 83 Resp: 74710
Ion Ratio Lower Upper
83 100
131 10.6 5.0 14.9
85 64.8 31.9 95.7

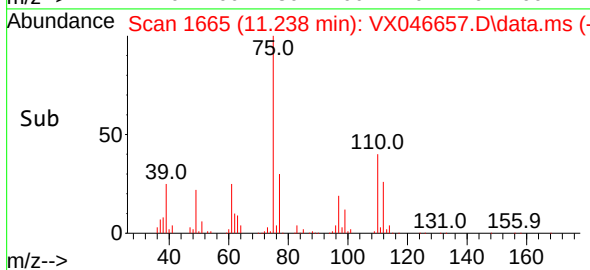
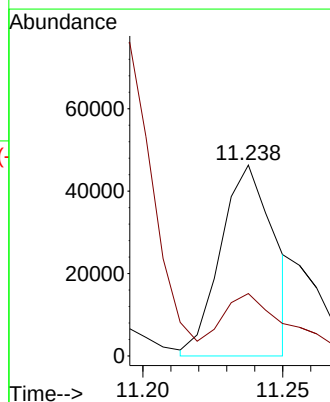
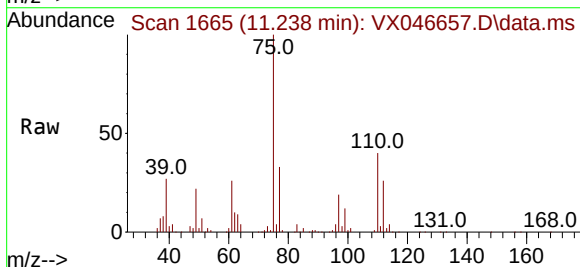
Manual Integrations
APPROVED

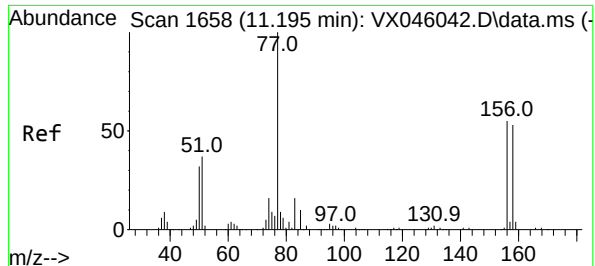
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#76
1,2,3-Trichloropropane
Concen: 47.929 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion: 75 Resp: 61557
Ion Ratio Lower Upper
75 100
77 41.5 20.5 61.5





#77

Bromobenzene

Concen: 53.732 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. 0.000 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

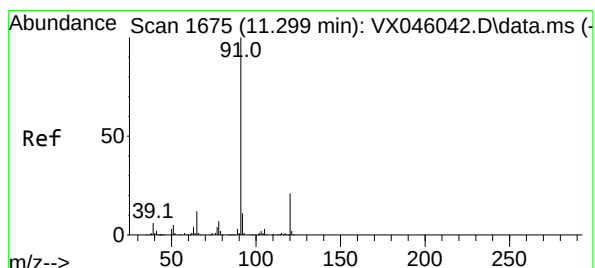
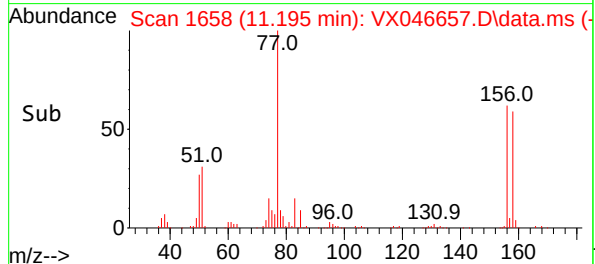
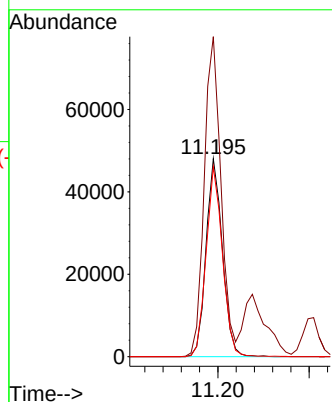
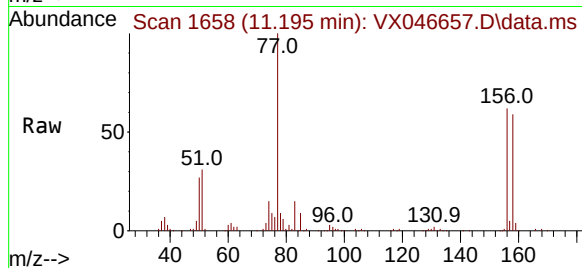
Tgt Ion:	156	Resp:	5944
Ion Ratio	Lower	Upper	
156	100		
77	165.6	92.8	278.3
158	95.9	48.8	146.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#78

n-propylbenzene

Concen: 49.576 ug/l

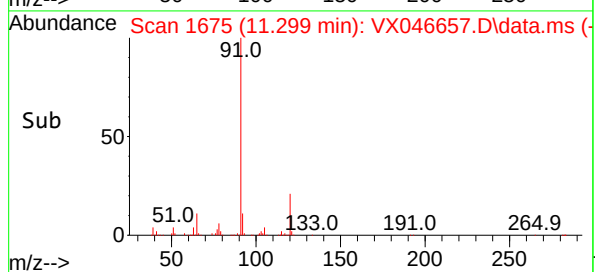
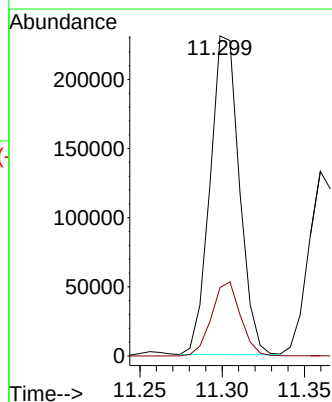
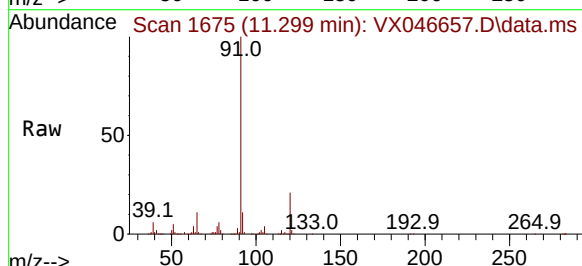
RT: 11.299 min Scan# 1675

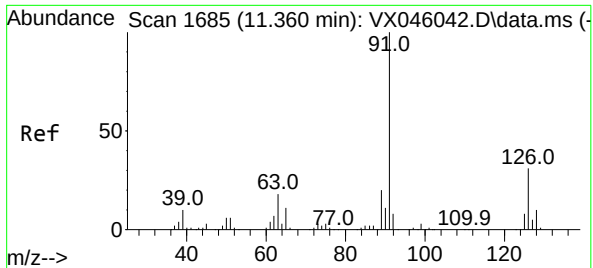
Delta R.T. -0.006 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Tgt Ion:	91	Resp:	286022
Ion Ratio	Lower	Upper	
91	100		
120	23.0	10.8	32.4





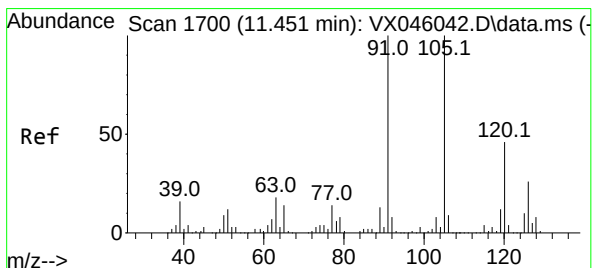
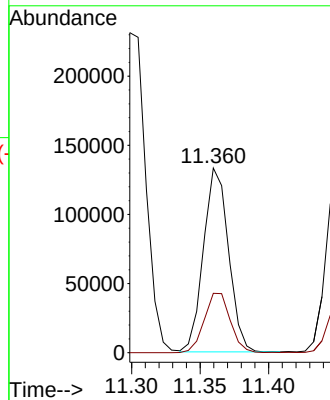
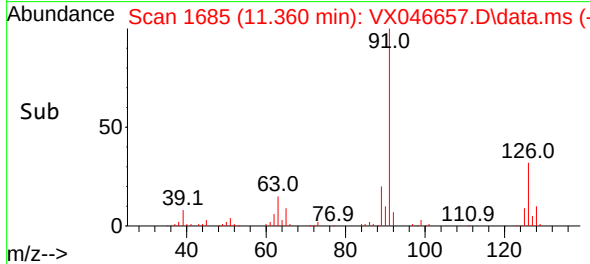
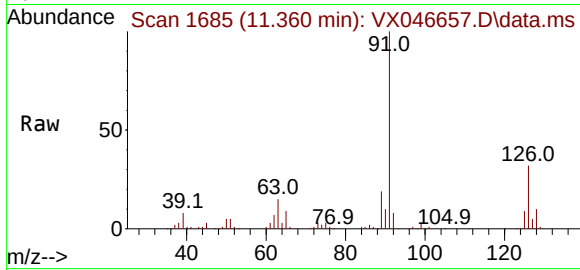
#79
2-Chlorotoluene
Concen: 48.694 ug/l
RT: 11.360 min Scan# 1685
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 91 Resp: 169410
Ion Ratio Lower Upper
91 100
126 33.6 15.6 46.7

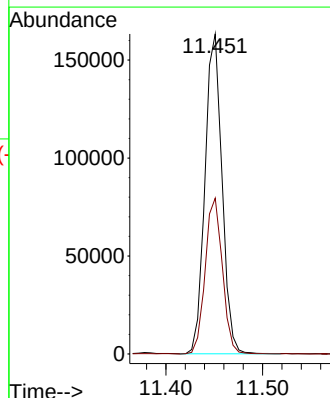
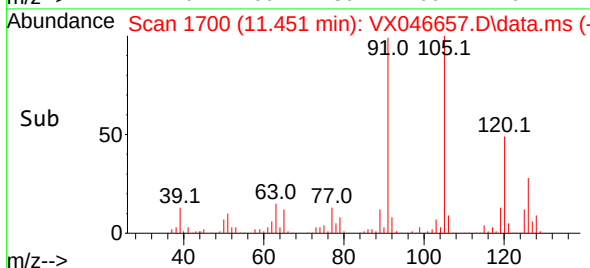
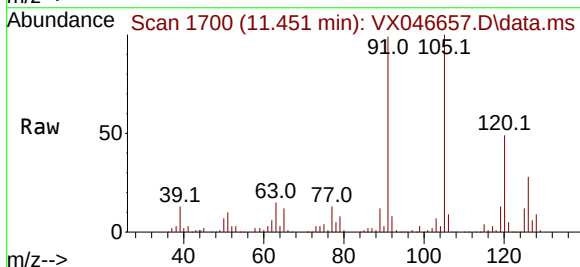
Manual Integrations
APPROVED

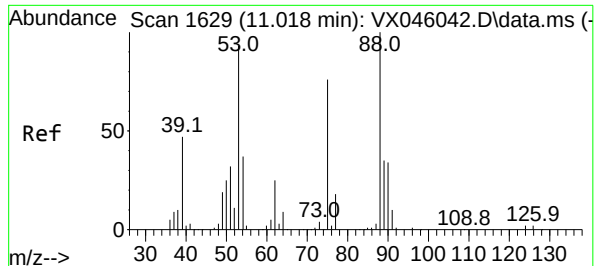
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#80
1,3,5-Trimethylbenzene
Concen: 50.550 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:105 Resp: 200783
Ion Ratio Lower Upper
105 100
120 49.1 23.1 69.2





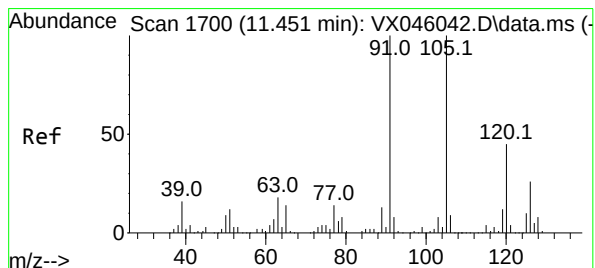
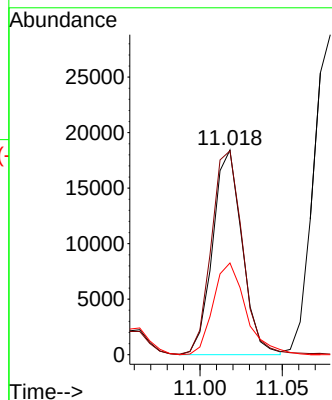
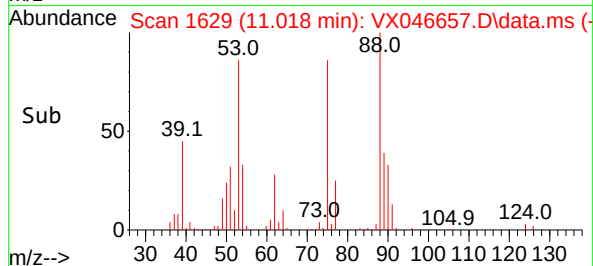
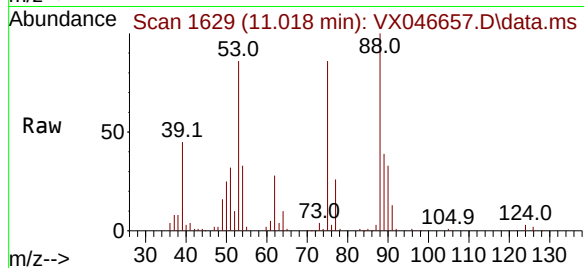
#81
trans-1,4-Dichloro-2-butene
Concen: 51.617 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050

Tgt Ion: 75 Resp: 2298
Ion Ratio Lower Upper
75 100
53 105.5 100.5 150.7
89 49.8 37.0 55.6

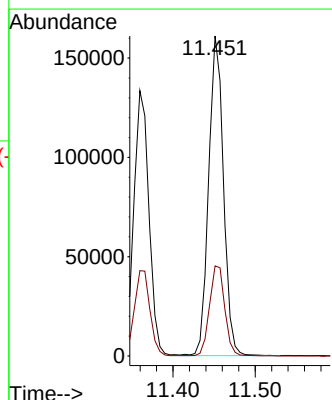
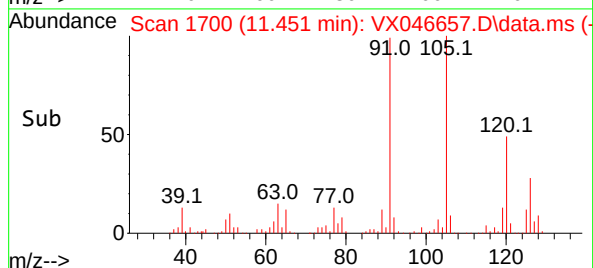
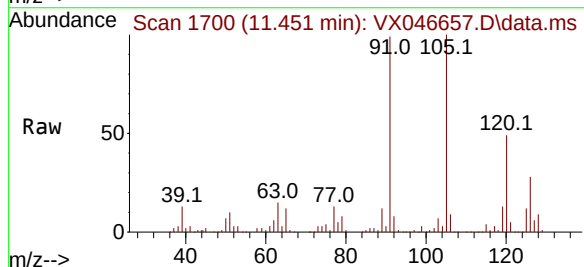
Manual Integrations
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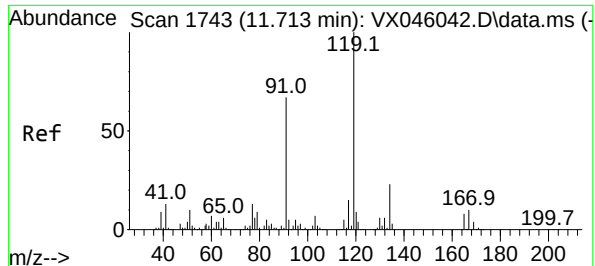
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#82
4-Chlorotoluene
Concen: 48.737 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion: 91 Resp: 200979
Ion Ratio Lower Upper
91 100
126 29.1 13.3 39.8





#83

tert-Butylbenzene

Concen: 52.499 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion:119 Resp: 212278

Ion Ratio Lower Upper

119 100

91 58.8 32.9 98.7

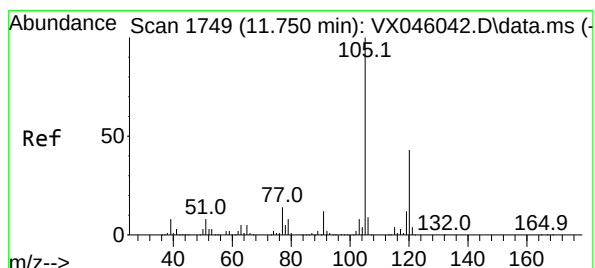
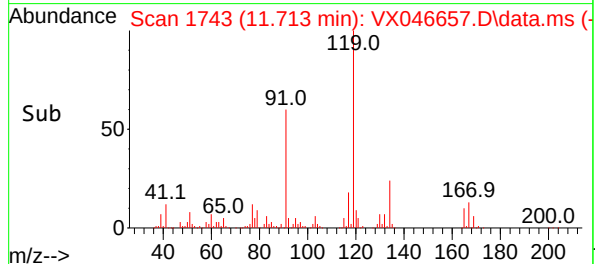
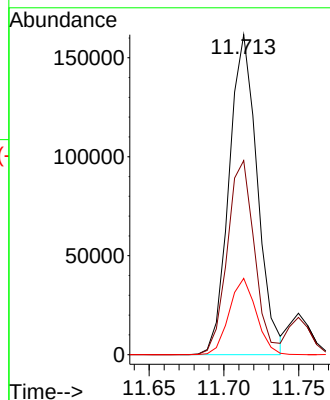
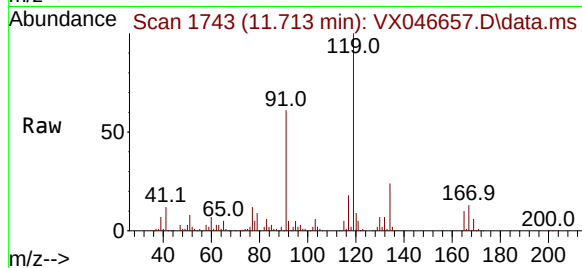
134 22.8 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#84

1,2,4-Trimethylbenzene

Concen: 50.441 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046657.D

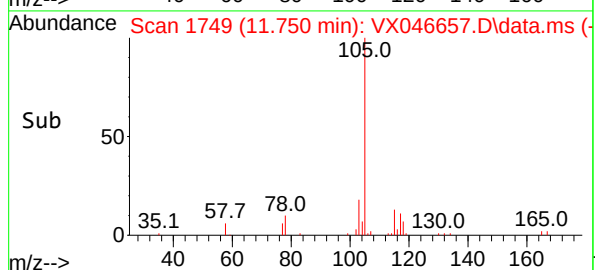
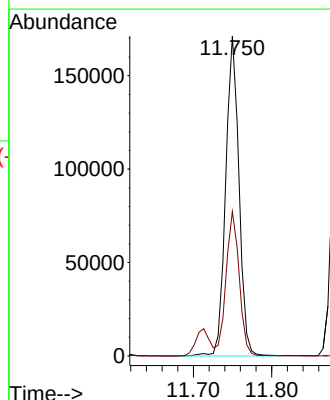
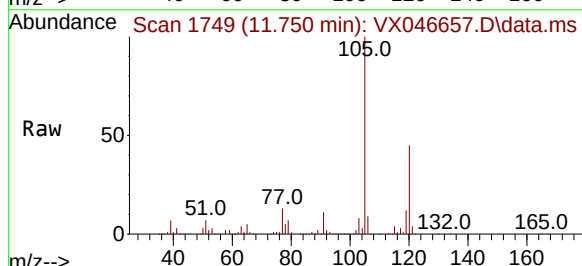
Acq: 12 Jun 2025 10:11

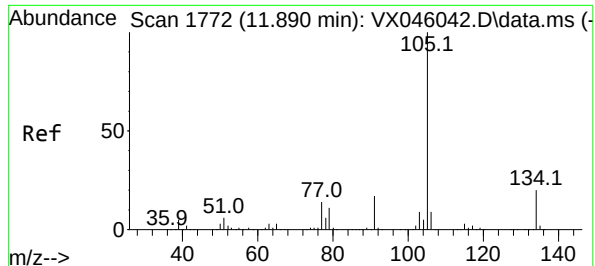
Tgt Ion:105 Resp: 202682

Ion Ratio Lower Upper

105 100

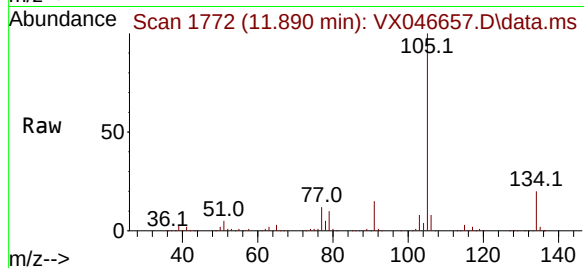
120 45.0 21.2 63.6





#85
 sec-Butylbenzene
 Concen: 51.245 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX046657.D
 Acq: 12 Jun 2025 10:11

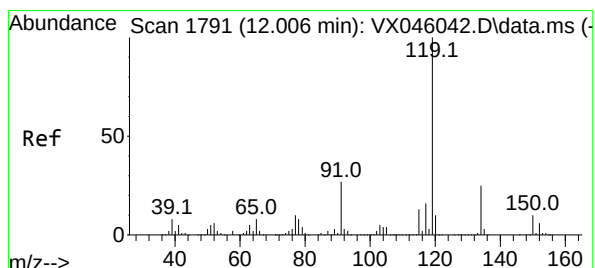
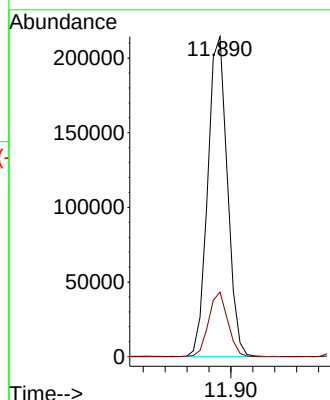
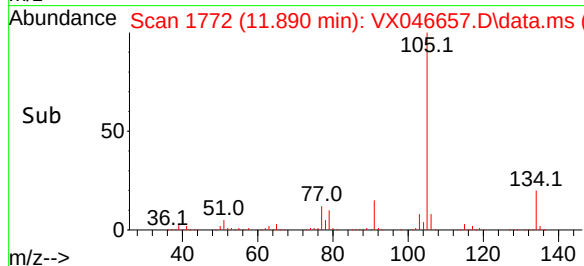
Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050



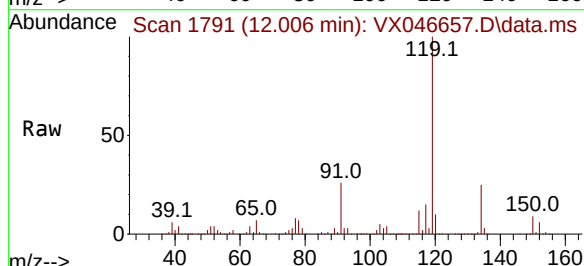
Tgt Ion:105 Resp: 266244
 Ion Ratio Lower Upper
 105 100
 134 19.8 9.7 29.1

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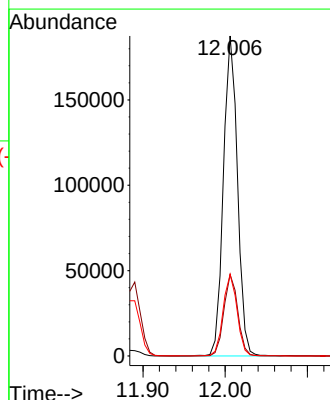
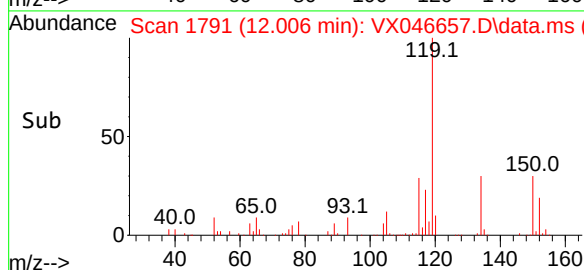
Reviewed By :John Carlone 06/13/2025
 Supervised By :Mahesh Dadoda 06/13/2025

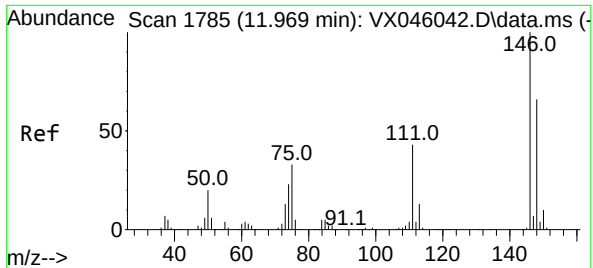


#86
 p-Isopropyltoluene
 Concen: 51.432 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX046657.D
 Acq: 12 Jun 2025 10:11



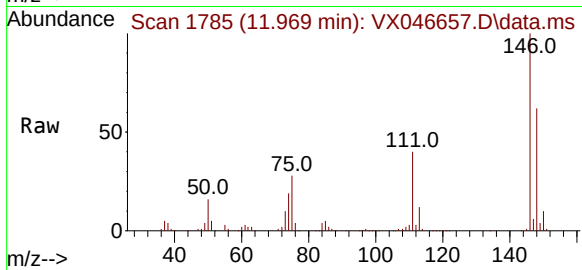
Tgt Ion:119 Resp: 222767
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.5 37.5
 91 25.4 13.8 41.4





#87
1,3-Dichlorobenzene
Concen: 51.930 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

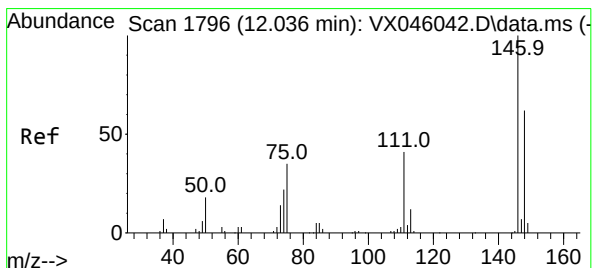
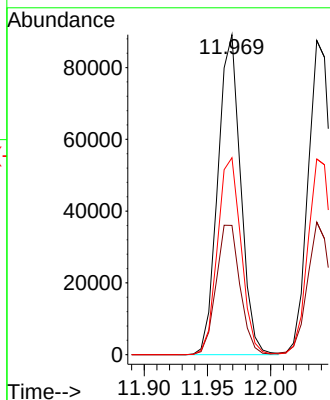
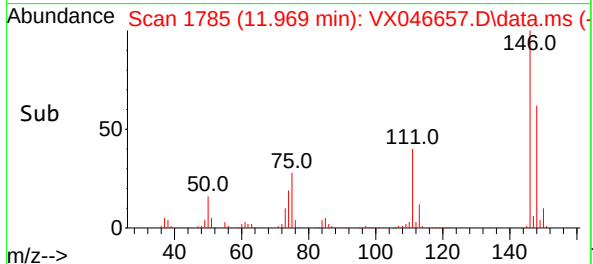
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 11156
Ion Ratio Lower Upper
146 100
111 42.5 22.1 66.3
148 63.7 32.1 96.5

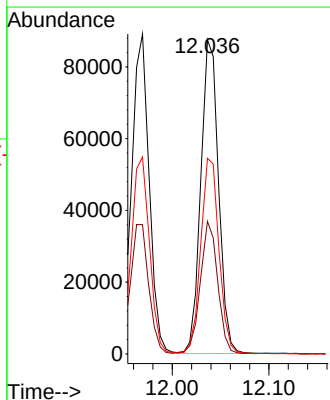
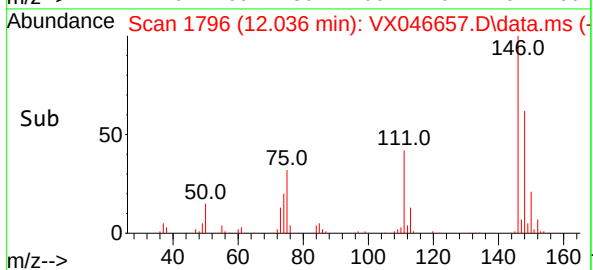
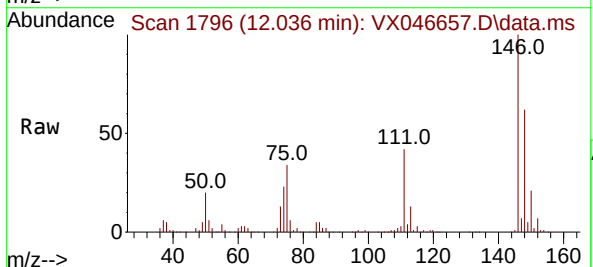
Manual Integrations
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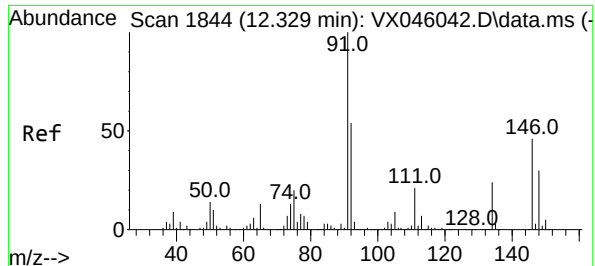
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#88
1,4-Dichlorobenzene
Concen: 50.254 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.006 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:146 Resp: 111874
Ion Ratio Lower Upper
146 100
111 41.6 21.3 63.9
148 64.5 31.9 95.5





#89

n-Butylbenzene

Concen: 49.127 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046657.D

Acq: 12 Jun 2025 10:11

Instrument :

MSVOA_X

ClientSampleId :

VSTDCCC050

Tgt Ion: 91 Resp: 208960

Ion Ratio Lower Upper

91 100

92 53.6 26.9 80.7

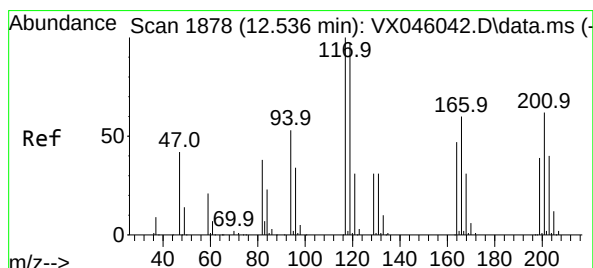
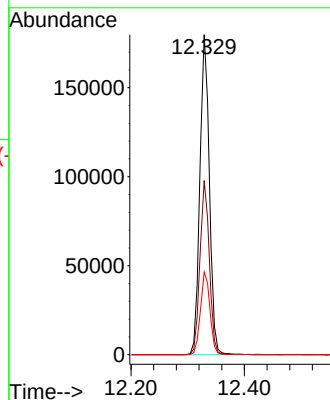
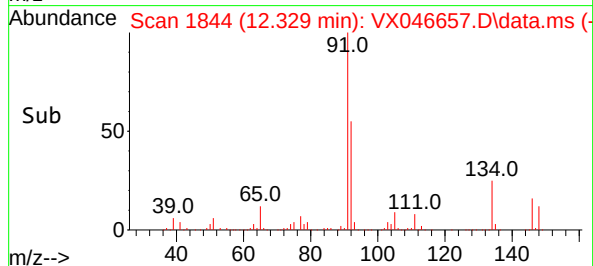
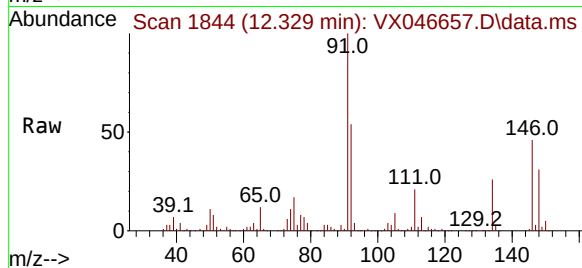
134 25.7 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#90

Hexachloroethane

Concen: 50.726 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046657.D

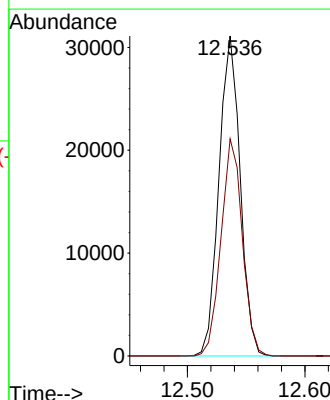
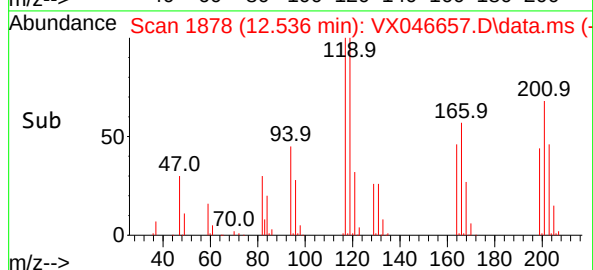
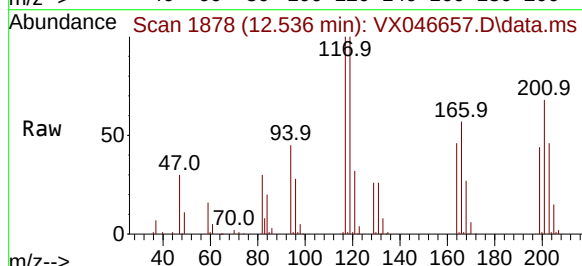
Acq: 12 Jun 2025 10:11

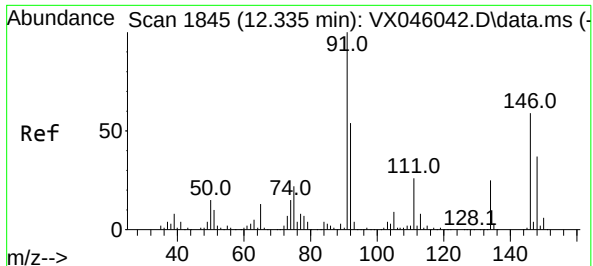
Tgt Ion:117 Resp: 39050

Ion Ratio Lower Upper

117 100

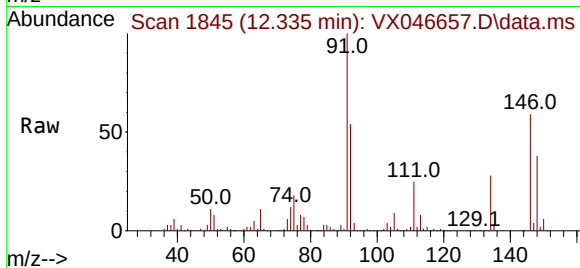
201 68.3 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 52.528 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

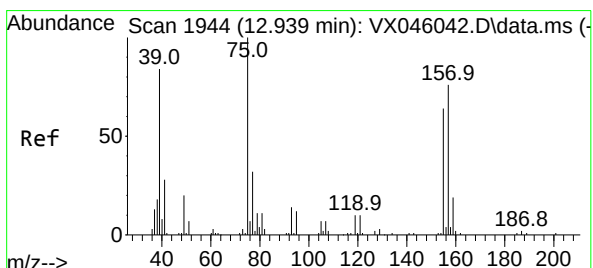
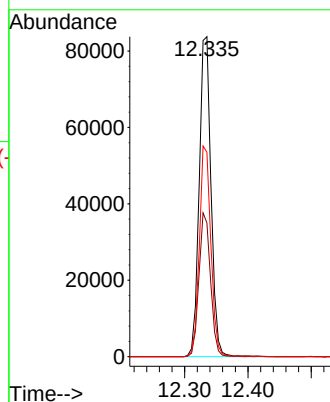
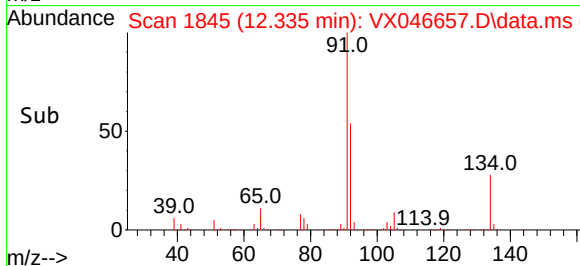
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:146 Resp: 10893
Ion Ratio Lower Upper
146 100
111 44.0 22.4 67.3
148 64.4 31.6 94.8

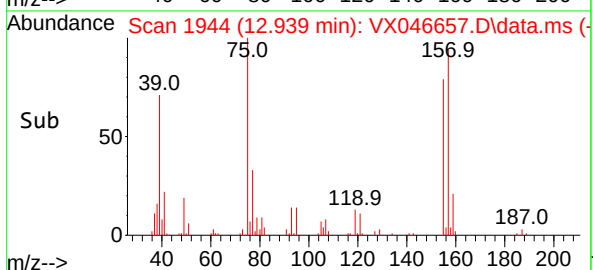
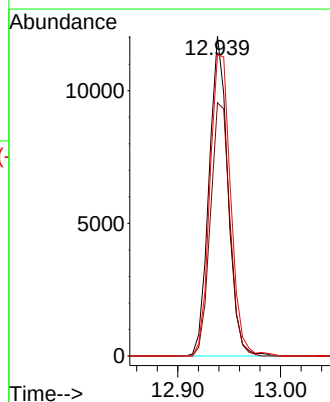
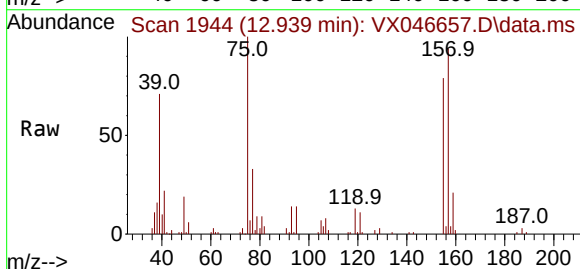
Manual Integrations
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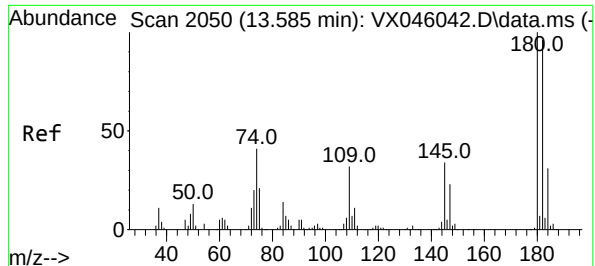
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 44.981 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

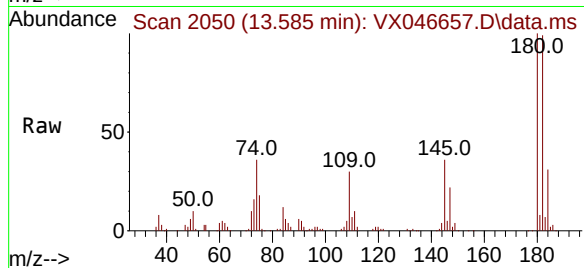
Tgt Ion: 75 Resp: 15368
Ion Ratio Lower Upper
75 100
155 81.7 34.9 104.8
157 103.6 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 52.400 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

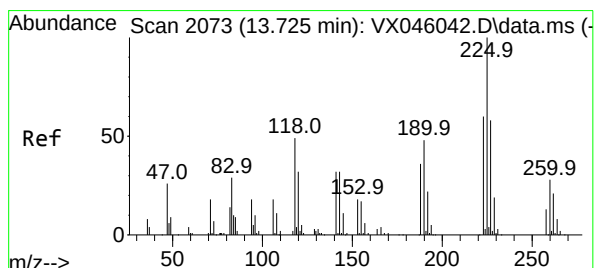
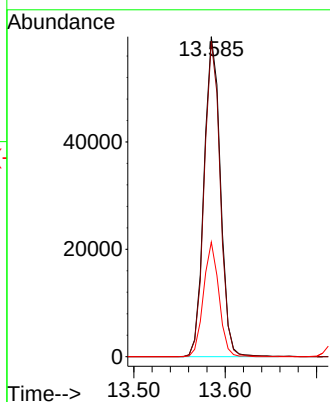
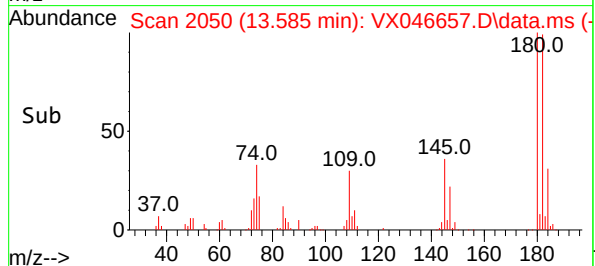
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



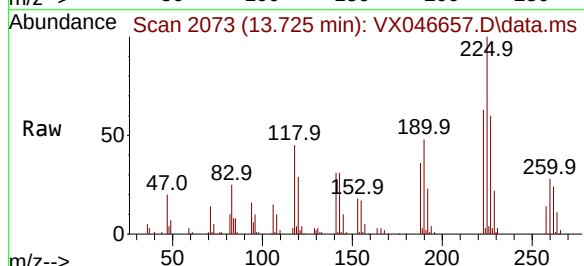
Tgt Ion:180 Resp: 74128
Ion Ratio Lower Upper
180 100
182 96.4 47.9 143.8
145 33.7 17.1 51.2

Manual Integrations
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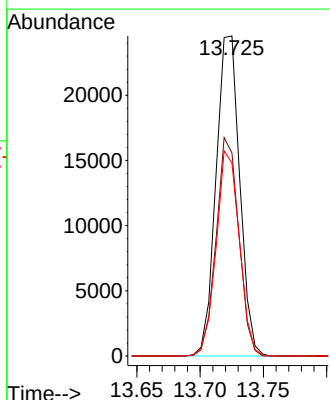
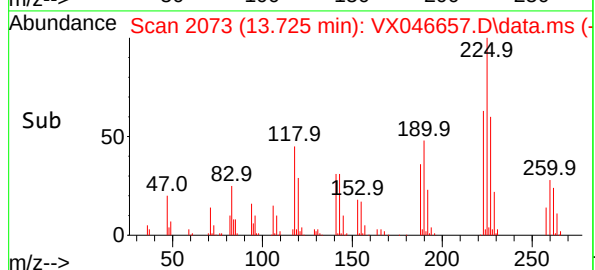
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

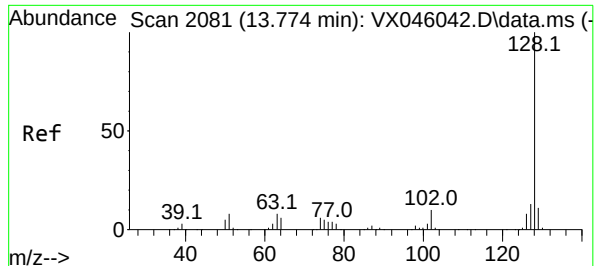


#94
Hexachlorobutadiene
Concen: 48.574 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11



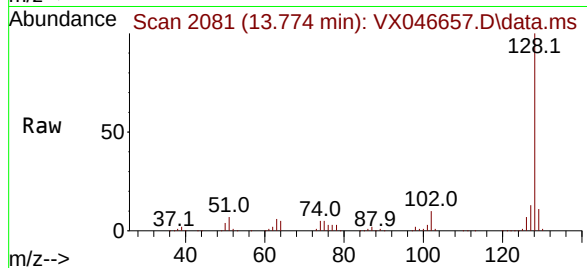
Tgt Ion:225 Resp: 31934
Ion Ratio Lower Upper
225 100
223 65.1 30.8 92.4
227 62.6 30.9 92.7





#95
Naphthalene
Concen: 51.726 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

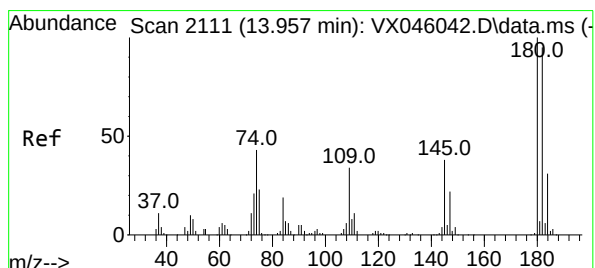
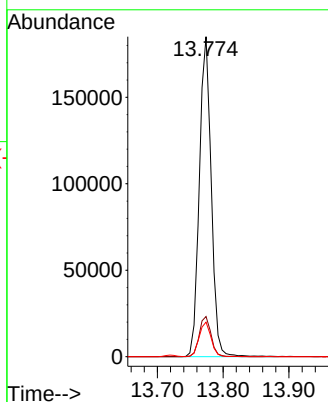
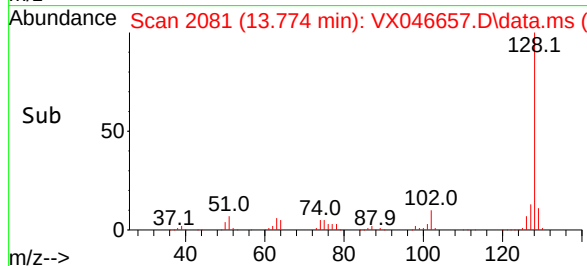
Instrument :
MSVOA_X
ClientSampleId :
VSTDCCC050



Tgt Ion:128 Resp: 23205
Ion Ratio Lower Upper
128 100
127 12.6 10.4 15.6
129 10.9 8.6 13.0

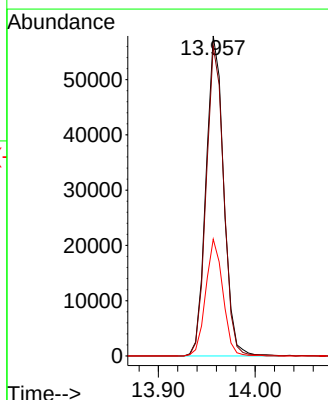
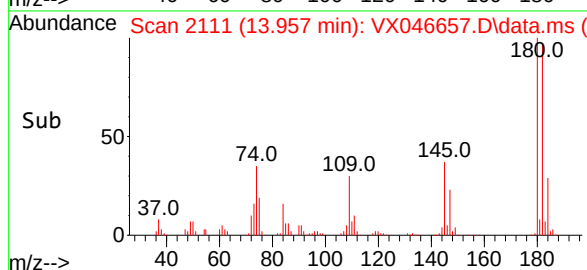
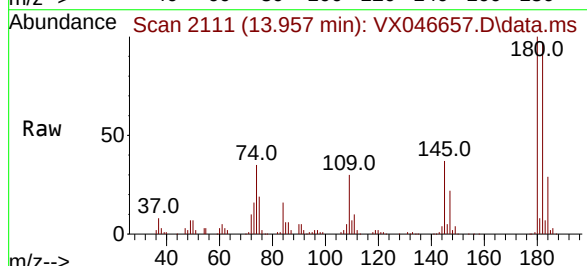
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#96
1,2,3-Trichlorobenzene
Concen: 51.724 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046657.D
Acq: 12 Jun 2025 10:11

Tgt Ion:180 Resp: 73372
Ion Ratio Lower Upper
180 100
182 96.2 47.8 143.3
145 35.5 18.1 54.3



Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046657.D
 Acq On : 12 Jun 2025 10:11
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	92	-0.01
2 T	Dichlorodifluoromethane	0.694	0.581	16.3	83	0.00
3 P	Chloromethane	0.632	0.492	22.2	79	0.00
4 C	Vinyl Chloride	0.630	0.498	21.0#	77	0.00
5 T	Bromomethane	0.382	0.280	26.7#	64	0.00
6 T	Chloroethane	0.409	0.289	29.3#	71	0.00
7 T	Trichlorofluoromethane	1.042	0.898	13.8	81	0.00
8 T	Diethyl Ether	0.368	0.324	12.0	83	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	0.657	0.632	3.8	91	0.00
10 T	Methyl Iodide	0.712	0.601	15.6	77	0.00
11 T	Tert butyl alcohol	0.099	0.076	23.2	71	0.00
12 CM	1,1-Dichloroethene	0.594	0.579	2.5#	94	0.00
13 T	Acrolein	0.103	0.151	-46.6#	123	0.00
14 T	Allyl chloride	1.166	1.030	11.7	84	0.00
15 T	Acrylonitrile	0.373	0.335	10.2	81	-0.01
16 T	Acetone	0.381	0.299	21.5	81	0.00
17 T	Carbon Disulfide	1.481	1.119	24.4	84	0.00
18 T	Methyl Acetate	1.060	0.979	7.6	79	0.00
19 T	Methyl tert-butyl Ether	2.077	2.026	2.5	88	-0.01
20 T	Methylene Chloride	0.714	0.666	6.7	92	0.00
21 T	trans-1,2-Dichloroethene	0.628	0.574	8.6	90	0.00
22 T	Diisopropyl ether	2.298	2.176	5.3	85	-0.01
23 T	Vinyl Acetate	1.775	1.638	7.7	82	0.00
24 P	1,1-Dichloroethane	1.281	1.183	7.7	86	0.00
25 T	2-Butanone	0.495	0.394	20.4	72	-0.01
26 T	2,2-Dichloropropane	0.951	0.937	1.5	89	0.00
27 T	cis-1,2-Dichloroethene	0.773	0.764	1.2	94	0.00
28 T	Bromochloromethane	0.611	0.528	13.6	82	-0.01
29 T	Tetrahydrofuran	0.313	0.253	19.2	74	-0.01
30 C	Chloroform	1.342	1.269	5.4#	88	0.00
31 T	Cyclohexane	1.034	0.897	13.2	83	0.00
32 T	1,1,1-Trichloroethane	1.148	1.075	6.4	86	0.00
33 S	1,2-Dichloroethane-d4	0.890	0.711	20.1	75	-0.01
34 I	1,4-Difluorobenzene	1.000	1.000	0.0	80	0.00
35 S	Dibromofluoromethane	0.368	0.434	-17.9	95	-0.01
36 T	1,1-Dichloropropene	0.525	0.506	3.6	84	-0.02
37 T	Ethyl Acetate	0.513	0.516	-0.6	75	-0.01
38 T	Carbon Tetrachloride	0.588	0.606	-3.1	86	-0.01
39 T	Methylcyclohexane	0.620	0.593	4.4	83	0.00
40 TM	Benzene	1.479	1.498	-1.3	84	-0.01
41 T	Methacrylonitrile	0.318	0.308	3.1	77	0.00
42 TM	1,2-Dichloroethane	0.615	0.566	8.0	74	0.00
43 T	Isopropyl Acetate	0.894	0.825	7.7	72	-0.01
44 TM	Trichloroethene	0.376	0.394	-4.8	90	0.00
45 C	1,2-Dichloropropane	0.382	0.395	-3.4#	83	0.00
46 T	Dibromomethane	0.287	0.255	11.1	73	0.00
47 T	Bromodichloromethane	0.590	0.554	6.1	74	0.00
48 T	Methyl methacrylate	0.460	0.367	20.2	61	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046657.D
 Acq On : 12 Jun 2025 10:11
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	0.006	0.005	16.7	65	-0.01
50 S	Toluene-d8	1.212	1.368	-12.9	92	0.00
51 T	4-Methyl-2-Pentanone	0.568	0.536	5.6	73	0.00
52 CM	Toluene	0.908	1.008	-11.0#	92	0.00
53 T	t-1,3-Dichloropropene	0.529	0.592	-11.9	88	0.00
54 T	cis-1,3-Dichloropropene	0.589	0.620	-5.3	84	0.00
55 T	1,1,2-Trichloroethane	0.365	0.423	-15.9	93	0.00
56 T	Ethyl methacrylate	0.561	0.624	-11.2	86	0.00
57 T	1,3-Dichloropropane	0.644	0.690	-7.1	87	0.00
58 T	2-Chloroethyl Vinyl ether	0.306	0.292	4.6	74	0.00
59 T	2-Hexanone	0.407	0.384	5.7	72	0.00
60 T	Dibromochloromethane	0.429	0.500	-16.6	93	0.00
61 T	1,2-Dibromoethane	0.380	0.415	-9.2	90	0.00
62 S	4-Bromofluorobenzene	0.502	0.561	-11.8	91	0.00
63 I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
64 T	Tetrachloroethene	0.334	0.342	-2.4	96	0.00
65 PM	Chlorobenzene	1.176	1.222	-3.9	94	0.00
66 T	1,1,1,2-Tetrachloroethane	0.397	0.440	-10.8	95	0.00
67 C	Ethyl Benzene	2.053	2.084	-1.5#	89	0.00
68 T	m/p-Xylenes	0.745	0.783	-5.1	92	0.00
69 T	o-Xylene	0.720	0.765	-6.3	92	0.00
70 T	Styrene	1.233	1.356	-10.0	93	0.00
71 P	Bromoform	0.303	0.346	-14.2	96	0.00
72 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.00
73 T	Isopropylbenzene	3.930	4.064	-3.4	92	0.00
74 T	N-amyl acetate	1.731	1.592	8.0	78	0.00
75 P	1,1,2,2-Tetrachloroethane	1.258	1.232	2.1	86	0.00
76 T	1,2,3-Trichloropropane	1.059	1.015	4.2	85	0.00
77 T	Bromobenzene	0.912	0.980	-7.5	98	0.00
78 T	n-propylbenzene	4.757	4.717	0.8	89	0.00
79 T	2-Chlorotoluene	2.869	2.794	2.6	88	0.00
80 T	1,3,5-Trimethylbenzene	3.275	3.311	-1.1	90	0.00
81 T	trans-1,4-Dichloro-2-butene	0.367	0.379	-3.3	90	0.00
82 T	4-Chlorotoluene	3.400	3.315	2.5	89	0.00
83 T	tert-Butylbenzene	3.334	3.501	-5.0	94	0.00
84 T	1,2,4-Trimethylbenzene	3.313	3.343	-0.9	90	0.00
85 T	sec-Butylbenzene	4.284	4.391	-2.5	93	0.00
86 T	p-Isopropyltoluene	3.572	3.674	-2.9	93	0.00
87 T	1,3-Dichlorobenzene	1.772	1.840	-3.8	96	0.00
88 T	1,4-Dichlorobenzene	1.836	1.845	-0.5	97	0.00
89 T	n-Butylbenzene	3.507	3.446	1.7	91	0.00
90 T	Hexachloroethane	0.635	0.644	-1.4	93	0.00
91 T	1,2-Dichlorobenzene	1.710	1.797	-5.1	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	0.282	0.253	10.3	78	0.00
93 T	1,2,4-Trichlorobenzene	1.167	1.223	-4.8	100	0.00
94 T	Hexachlorobutadiene	0.542	0.527	2.8	93	0.00
95 T	Naphthalene	3.699	3.827	-3.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046657.D
Acq On : 12 Jun 2025 10:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 13 01:40:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	1.170	1.210	-3.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046657.D
 Acq On : 12 Jun 2025 10:11
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	92	-0.01
2 T	Dichlorodifluoromethane	50.000	41.844	16.3	83	0.00
3 P	Chloromethane	50.000	38.898	22.2	79	0.00
4 C	Vinyl Chloride	50.000	39.569	20.9#	77	0.00
5 T	Bromomethane	50.000	36.617	26.8#	64	0.00
6 T	Chloroethane	50.000	35.309	29.4#	71	0.00
7 T	Trichlorofluoromethane	50.000	43.086	13.8	81	0.00
8 T	Diethyl Ether	50.000	44.038	11.9	83	-0.01
9 T	1,1,2-Trichlorotrifluoroeth	50.000	48.132	3.7	91	0.00
10 T	Methyl Iodide	50.000	42.187	15.6	77	0.00
11 T	Tert butyl alcohol	250.000	191.495	23.4	71	0.00
12 CM	1,1-Dichloroethene	50.000	48.736	2.5#	94	0.00
13 T	Acrolein	250.000	308.244	-23.3	123	0.00
14 T	Allyl chloride	50.000	44.168	11.7	84	0.00
15 T	Acrylonitrile	250.000	224.440	10.2	81	-0.01
16 T	Acetone	250.000	214.546	14.2	81	0.00
17 T	Carbon Disulfide	50.000	44.419	11.2	84	0.00
18 T	Methyl Acetate	50.000	46.215	7.6	79	0.00
19 T	Methyl tert-butyl Ether	50.000	48.780	2.4	88	-0.01
20 T	Methylene Chloride	50.000	46.663	6.7	92	0.00
21 T	trans-1,2-Dichloroethene	50.000	45.648	8.7	90	0.00
22 T	Diisopropyl ether	50.000	47.342	5.3	85	-0.01
23 T	Vinyl Acetate	250.000	230.742	7.7	82	0.00
24 P	1,1-Dichloroethane	50.000	46.174	7.7	86	0.00
25 T	2-Butanone	250.000	198.700	20.5	72	-0.01
26 T	2,2-Dichloropropane	50.000	49.247	1.5	89	0.00
27 T	cis-1,2-Dichloroethene	50.000	49.368	1.3	94	0.00
28 T	Bromochloromethane	50.000	43.246	13.5	82	-0.01
29 T	Tetrahydrofuran	250.000	202.521	19.0	74	-0.01
30 C	Chloroform	50.000	47.284	5.4#	88	0.00
31 T	Cyclohexane	50.000	43.368	13.3	83	0.00
32 T	1,1,1-Trichloroethane	50.000	46.820	6.4	86	0.00
33 S	1,2-Dichloroethane-d4	50.000	39.968	20.1	75	-0.01
34 I	1,4-Difluorobenzene	50.000	50.000	0.0	80	0.00
35 S	Dibromofluoromethane	50.000	59.078	-18.2	95	-0.01
36 T	1,1-Dichloropropene	50.000	48.205	3.6	84	-0.02
37 T	Ethyl Acetate	50.000	50.287	-0.6	75	-0.01
38 T	Carbon Tetrachloride	50.000	51.532	-3.1	86	-0.01
39 T	Methylcyclohexane	50.000	47.793	4.4	83	0.00
40 TM	Benzene	50.000	50.668	-1.3	84	-0.01
41 T	Methacrylonitrile	50.000	48.375	3.3	77	0.00
42 TM	1,2-Dichloroethane	50.000	45.968	8.1	74	0.00
43 T	Isopropyl Acetate	50.000	46.166	7.7	72	-0.01
44 TM	Trichloroethene	50.000	52.401	-4.8	90	0.00
45 C	1,2-Dichloropropane	50.000	51.789	-3.6#	83	0.00
46 T	Dibromomethane	50.000	44.374	11.3	73	0.00
47 T	Bromodichloromethane	50.000	46.922	6.2	74	0.00
48 T	Methyl methacrylate	50.000	39.931	20.1	61	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046657.D
 Acq On : 12 Jun 2025 10:11
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 LabSampleId :
 VSTDCCC050

Quant Time: Jun 13 01:40:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 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	833.741	16.6	65	-0.01
50 S	Toluene-d8	50.000	56.439	-12.9	92	0.00
51 T	4-Methyl-2-Pentanone	250.000	235.853	5.7	73	0.00
52 CM	Toluene	50.000	55.498	-11.0#	92	0.00
53 T	t-1,3-Dichloropropene	50.000	55.952	-11.9	88	0.00
54 T	cis-1,3-Dichloropropene	50.000	52.698	-5.4	84	0.00
55 T	1,1,2-Trichloroethane	50.000	58.018	-16.0	93	0.00
56 T	Ethyl methacrylate	50.000	55.570	-11.1	86	0.00
57 T	1,3-Dichloropropane	50.000	53.544	-7.1	87	0.00
58 T	2-Chloroethyl Vinyl ether	250.000	238.457	4.6	74	0.00
59 T	2-Hexanone	250.000	235.732	5.7	72	0.00
60 T	Dibromochloromethane	50.000	58.299	-16.6	93	0.00
61 T	1,2-Dibromoethane	50.000	54.621	-9.2	90	0.00
62 S	4-Bromofluorobenzene	50.000	55.919	-11.8	91	0.00
63 I	Chlorobenzene-d5	50.000	50.000	0.0	86	0.00
64 T	Tetrachloroethene	50.000	51.184	-2.4	96	0.00
65 PM	Chlorobenzene	50.000	51.968	-3.9	94	0.00
66 T	1,1,1,2-Tetrachloroethane	50.000	55.422	-10.8	95	0.00
67 C	Ethyl Benzene	50.000	50.760	-1.5#	89	0.00
68 T	m/p-Xylenes	100.000	105.170	-5.2	92	0.00
69 T	o-Xylene	50.000	53.091	-6.2	92	0.00
70 T	Styrene	50.000	55.006	-10.0	93	0.00
71 P	Bromoform	50.000	57.113	-14.2	96	0.00
72 I	1,4-Dichlorobenzene-d4	50.000	50.000	0.0	88	0.00
73 T	Isopropylbenzene	50.000	51.704	-3.4	92	0.00
74 T	N-amyl acetate	50.000	45.978	8.0	78	0.00
75 P	1,1,2,2-Tetrachloroethane	50.000	48.967	2.1	86	0.00
76 T	1,2,3-Trichloropropane	50.000	47.929	4.1	85	0.00
77 T	Bromobenzene	50.000	53.732	-7.5	98	0.00
78 T	n-propylbenzene	50.000	49.576	0.8	89	0.00
79 T	2-Chlorotoluene	50.000	48.694	2.6	88	0.00
80 T	1,3,5-Trimethylbenzene	50.000	50.550	-1.1	90	0.00
81 T	trans-1,4-Dichloro-2-butene	50.000	51.617	-3.2	90	0.00
82 T	4-Chlorotoluene	50.000	48.737	2.5	89	0.00
83 T	tert-Butylbenzene	50.000	52.499	-5.0	94	0.00
84 T	1,2,4-Trimethylbenzene	50.000	50.441	-0.9	90	0.00
85 T	sec-Butylbenzene	50.000	51.245	-2.5	93	0.00
86 T	p-Isopropyltoluene	50.000	51.432	-2.9	93	0.00
87 T	1,3-Dichlorobenzene	50.000	51.930	-3.9	96	0.00
88 T	1,4-Dichlorobenzene	50.000	50.254	-0.5	97	0.00
89 T	n-Butylbenzene	50.000	49.127	1.7	91	0.00
90 T	Hexachloroethane	50.000	50.726	-1.5	93	0.00
91 T	1,2-Dichlorobenzene	50.000	52.528	-5.1	97	0.00
92 T	1,2-Dibromo-3-Chloropropane	50.000	44.981	10.0	78	0.00
93 T	1,2,4-Trichlorobenzene	50.000	52.400	-4.8	100	0.00
94 T	Hexachlorobutadiene	50.000	48.574	2.9	93	0.00
95 T	Naphthalene	50.000	51.726	-3.5	90	0.00

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046657.D
Acq On : 12 Jun 2025 10:11
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_X
LabSampleId :
VSTDCCC050

Quant Time: Jun 13 01:40:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 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	51.724	-3.4	98	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 6



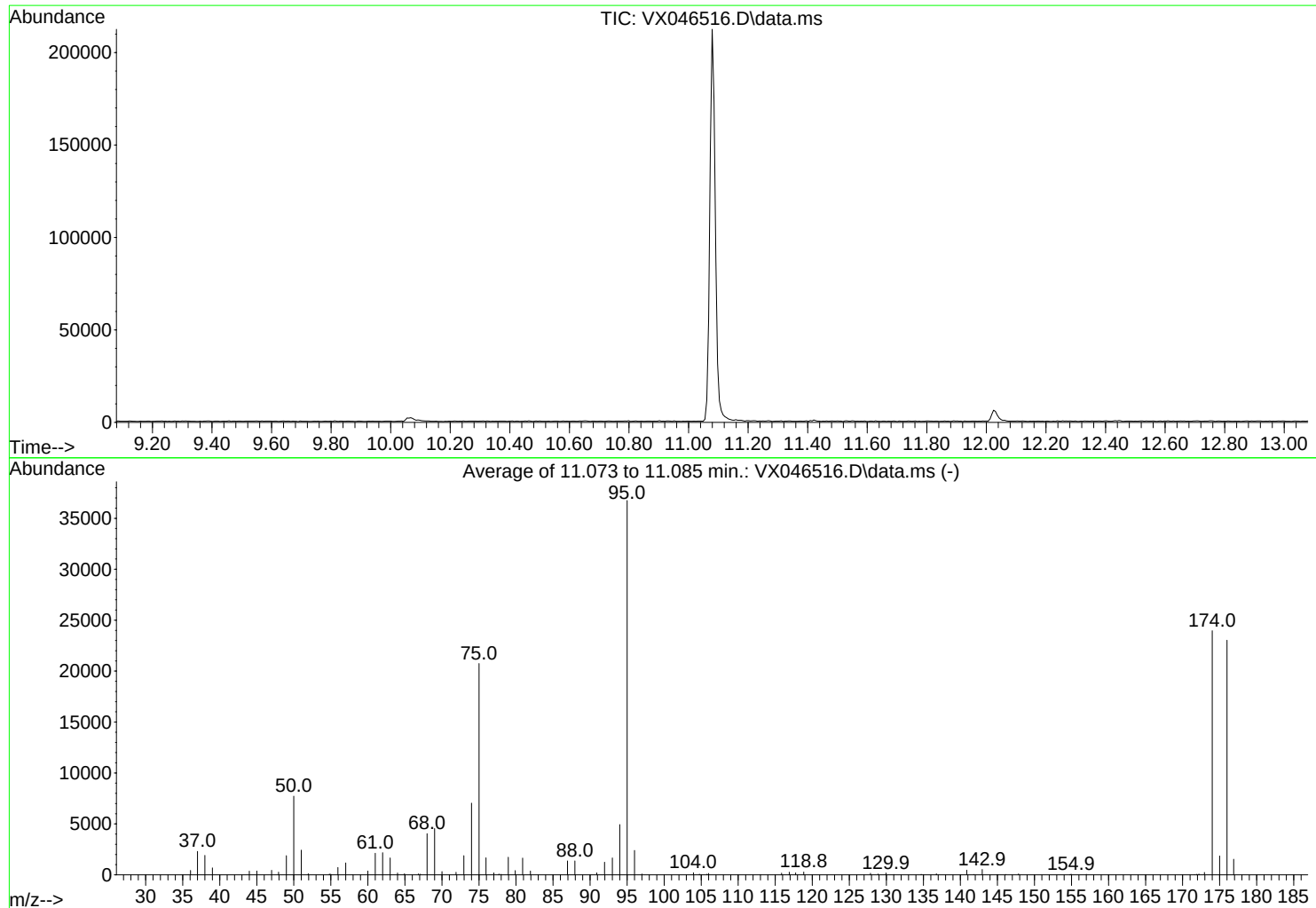
QC SAMPLE DATA

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060625\
Data File : VX046516.D
Acq On : 06 Jun 2025 08:47
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\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

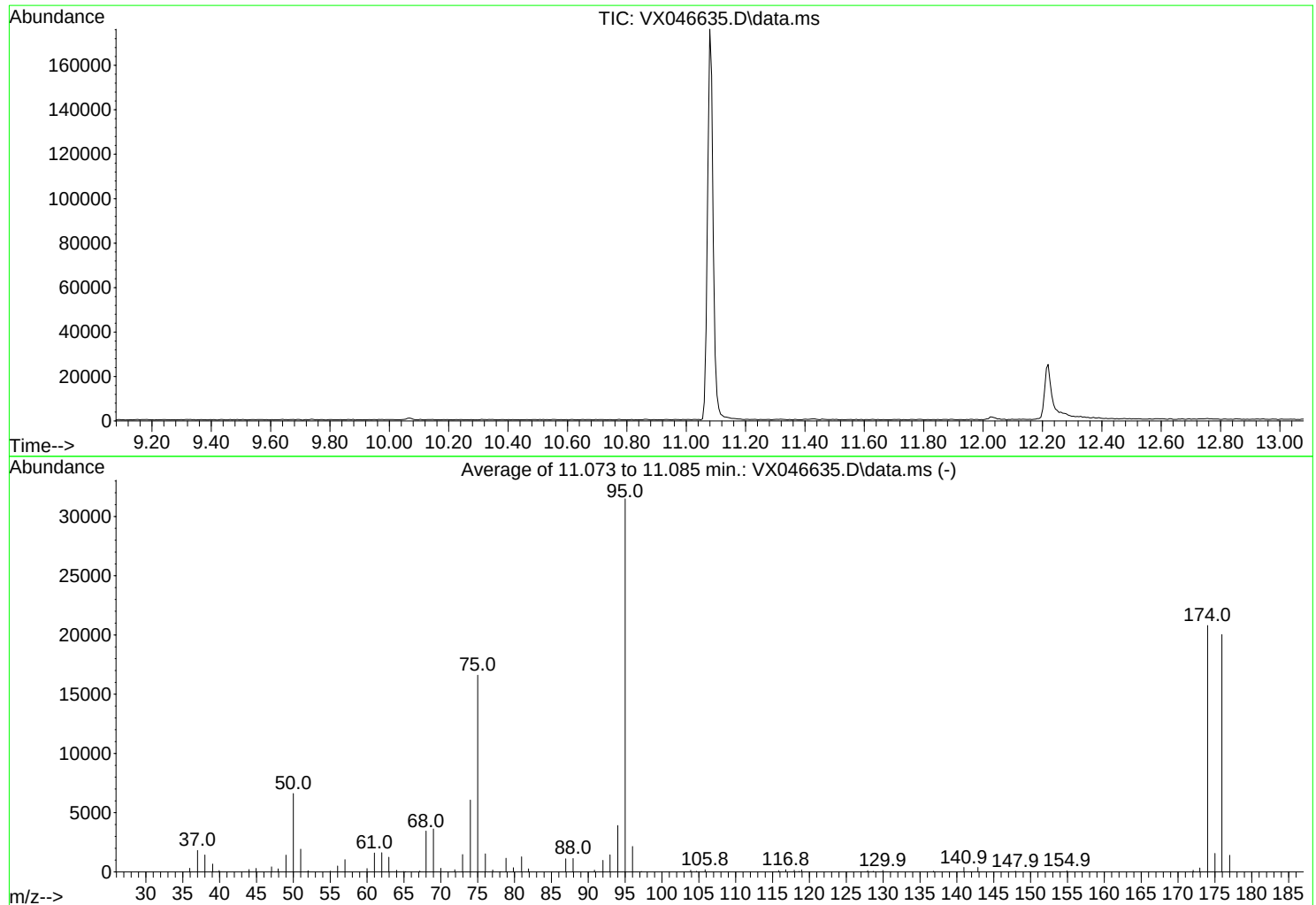
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	7727	PASS
75	95	30	60	56.5	20747	PASS
95	95	100	100	100.0	36752	PASS
96	95	5	9	6.5	2397	PASS
173	174	0.00	2	1.0	238	PASS
174	95	50	100	65.2	23963	PASS
175	174	5	9	7.7	1850	PASS
176	174	95	101	96.1	23028	PASS
177	176	5	9	6.6	1530	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046635.D
Acq On : 11 Jun 2025 14:01
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 2025



AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1632

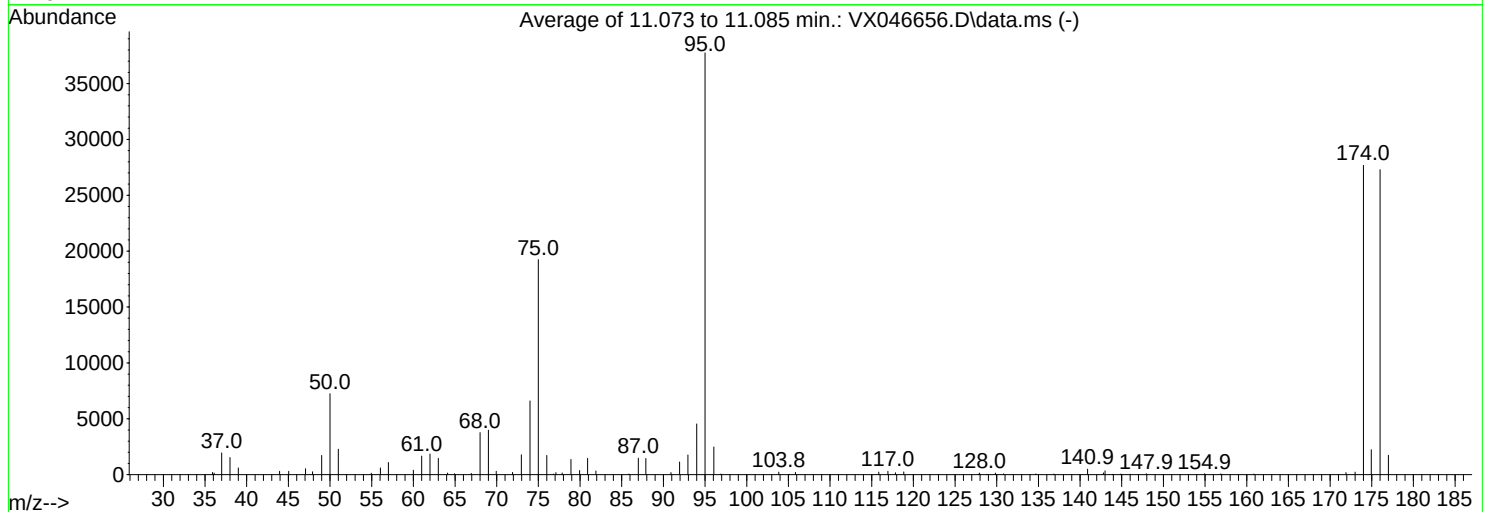
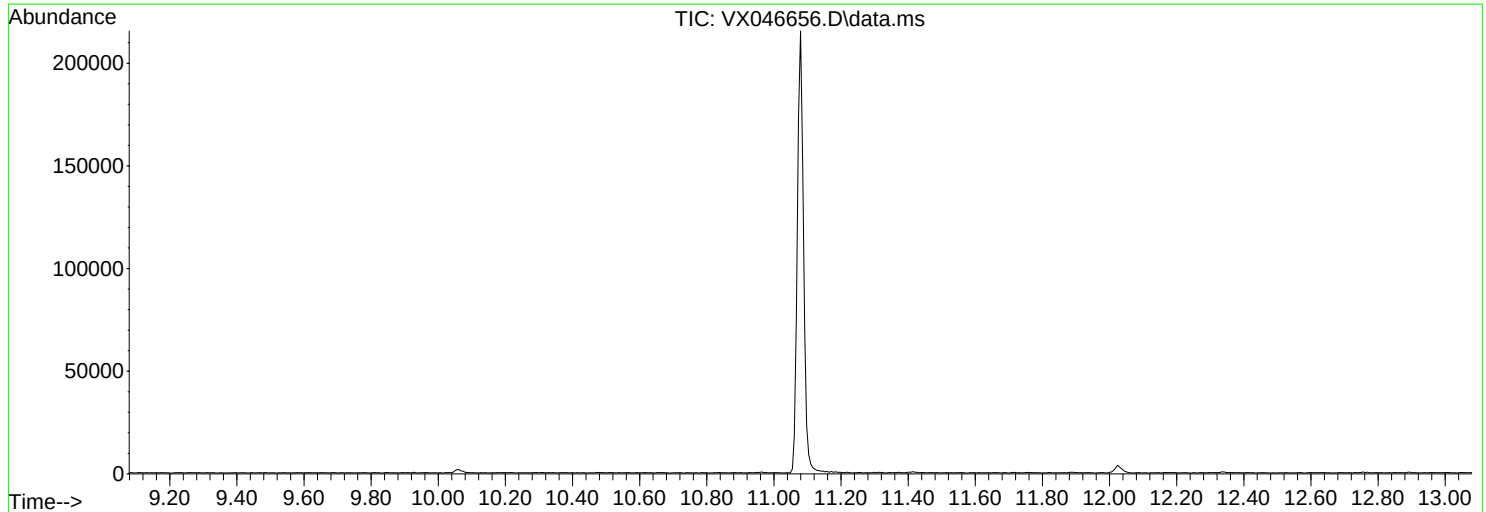
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	6619	PASS
75	95	30	60	52.7	16610	PASS
95	95	100	100	100.0	31491	PASS
96	95	5	9	6.8	2149	PASS
173	174	0.00	2	1.6	335	PASS
174	95	50	100	66.1	20804	PASS
175	174	5	9	7.5	1565	PASS
176	174	95	101	96.3	20030	PASS
177	176	5	9	7.0	1411	PASS

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046656.D
Acq On : 12 Jun 2025 09:44
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\82X060625W.M
Title : SW846 8260
Last Update : Fri Jun 06 16:56:12 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	19.2	7240	PASS
75	95	30	60	51.0	19246	PASS
95	95	100	100	100.0	37749	PASS
96	95	5	9	6.6	2477	PASS
173	174	0.00	2	0.8	230	PASS
174	95	50	100	73.3	27683	PASS
175	174	5	9	8.1	2237	PASS
176	174	95	101	98.6	27288	PASS
177	176	5	9	6.3	1728	PASS

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VX0611WBL02	SDG No.:	Q2249
Lab Sample ID:	VX0611WBL02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046637.D	1		06/11/25 15:14	VX061125

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
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	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
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		70 (74) - 130 (125)	99%	SPK: 50
1868-53-7	Dibromofluoromethane	50.4		70 (75) - 130 (124)	101%	SPK: 50
2037-26-5	Toluene-d8	54.3		70 (86) - 130 (113)	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	55.3		70 (77) - 130 (121)	111%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	73500	5.556			
540-36-3	1,4-Difluorobenzene	148000	6.769			
3114-55-4	Chlorobenzene-d5	153000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	77000	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\VX061125\
 Data File : VX046637.D
 Acq On : 11 Jun 2025 15:14
 Operator : JC/MD
 Sample : VX0611WBL02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBL02

Quant Time: Jun 12 02:29:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	73470	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.769	114	147517	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	153084	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	77047	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	64944	49.685	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.380%
35) Dibromofluoromethane	5.391	113	54640	50.367	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	100.740%
50) Toluene-d8	8.647	98	194299	54.326	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	108.660%
62) 4-Bromofluorobenzene	11.079	95	81807	55.283	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	110.560%

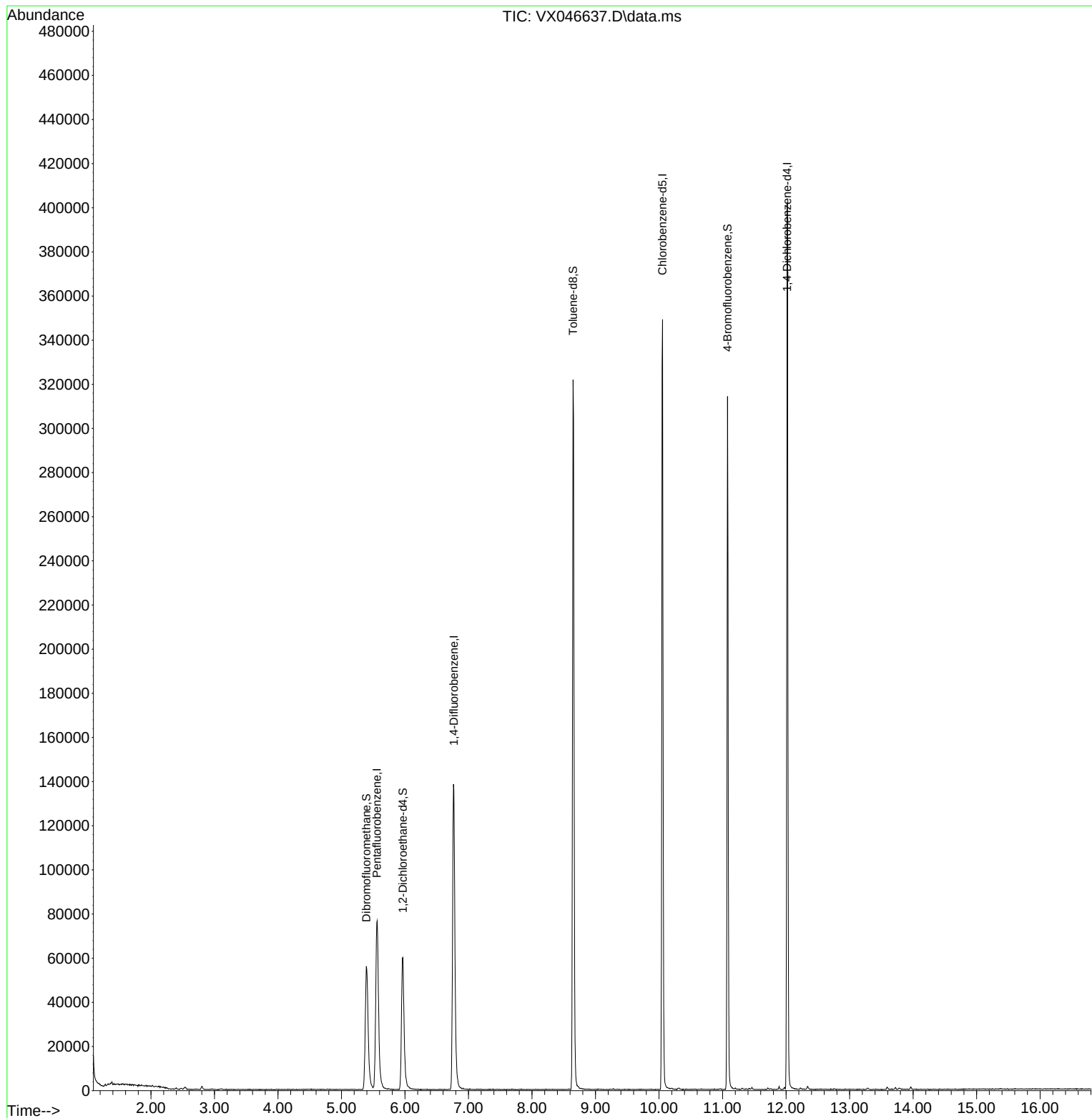
Target Compounds	Qvalue

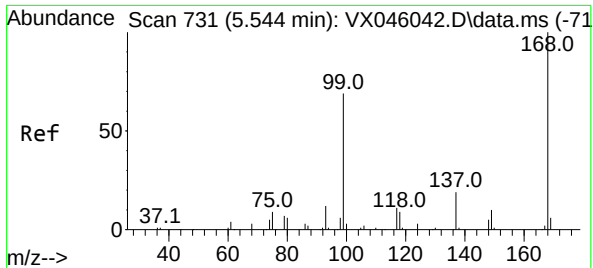
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046637.D
Acq On : 11 Jun 2025 15:14
Operator : JC/MD
Sample : VX0611WBL02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

Quant Time: Jun 12 02:29:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

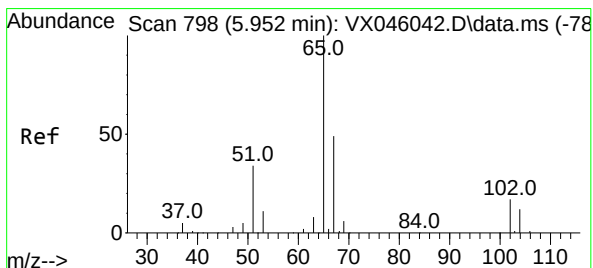
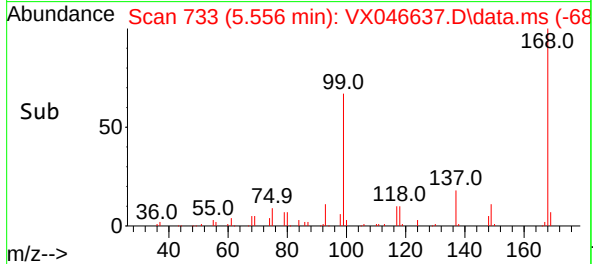
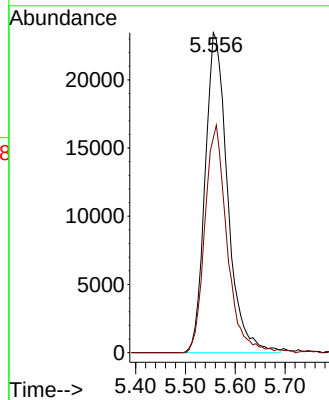
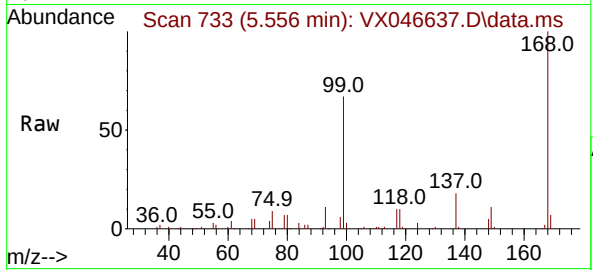




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

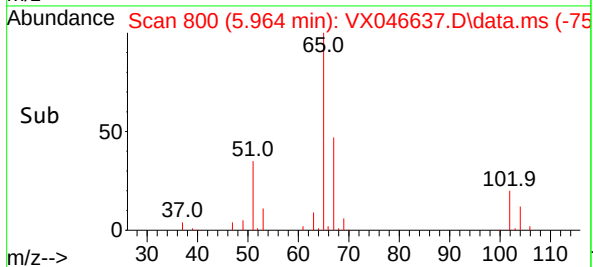
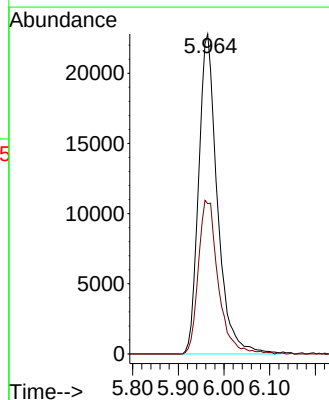
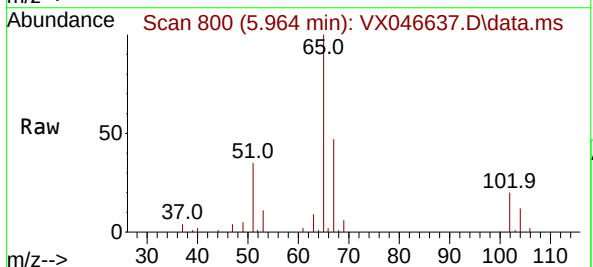
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

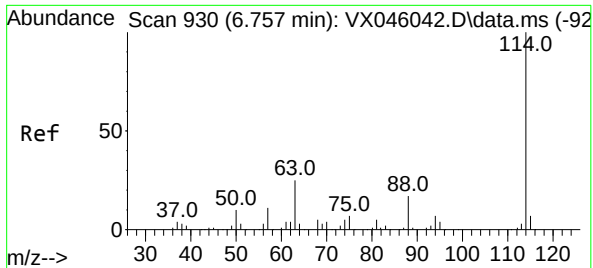
Tgt Ion:168 Resp: 73470
Ion Ratio Lower Upper
168 100
99 67.1 54.9 82.3



#33
1,2-Dichloroethane-d4
Concen: 49.685 ug/l
RT: 5.964 min Scan# 800
Delta R.T. -0.006 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

Tgt Ion: 65 Resp: 64944
Ion Ratio Lower Upper
65 100
67 50.9 0.0 99.0

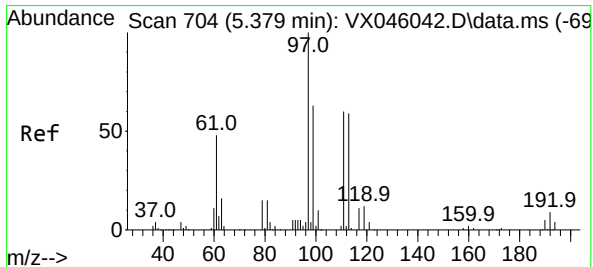
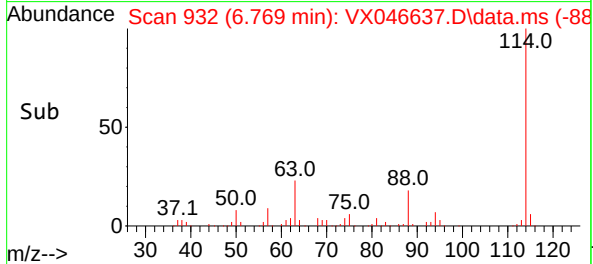
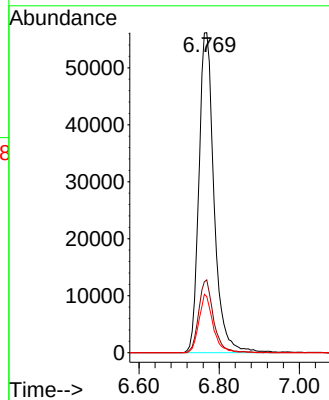
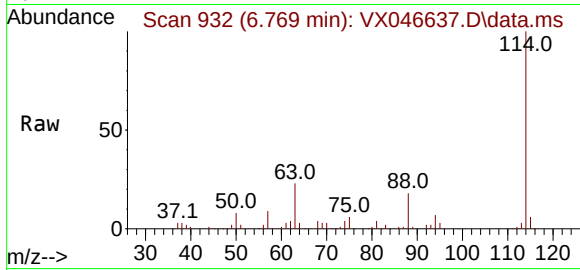




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

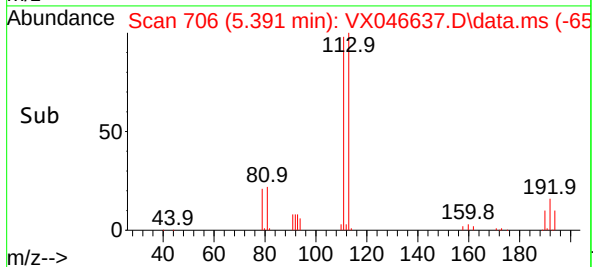
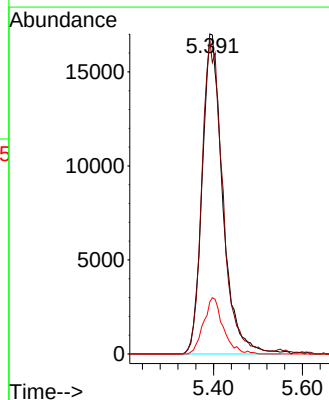
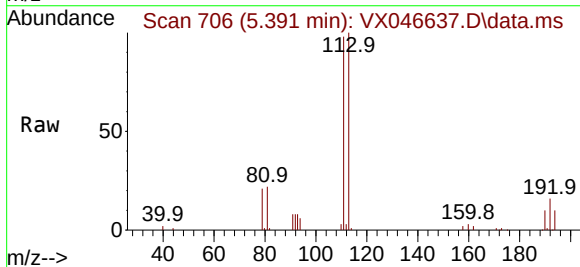
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

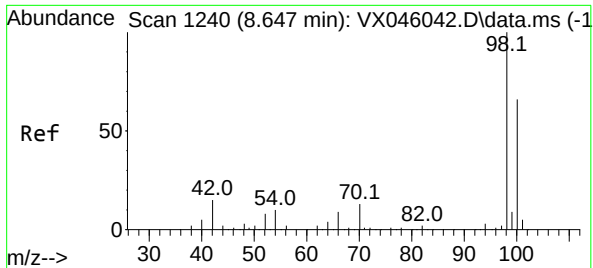
Tgt Ion:114 Resp: 147517
Ion Ratio Lower Upper
114 100
63 22.7 0.0 49.2
88 17.6 0.0 33.6



#35
Dibromofluoromethane
Concen: 50.367 ug/l
RT: 5.391 min Scan# 706
Delta R.T. -0.012 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

Tgt Ion:113 Resp: 54640
Ion Ratio Lower Upper
113 100
111 99.7 83.1 124.7
192 16.5 13.3 19.9

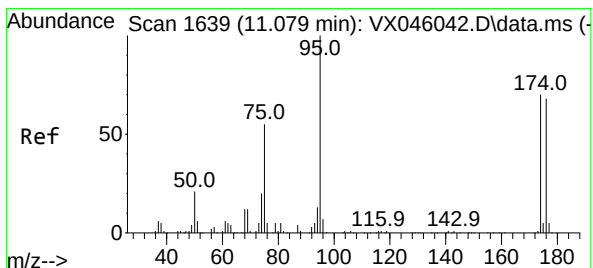
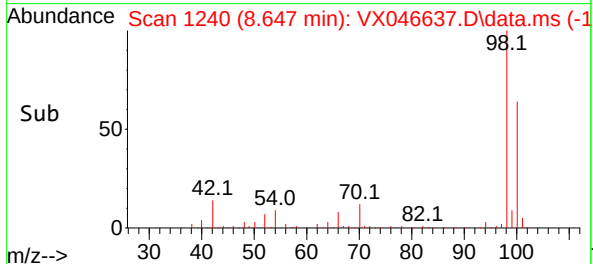
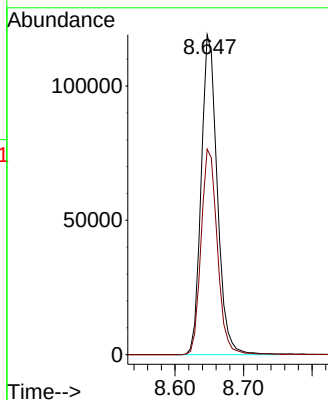
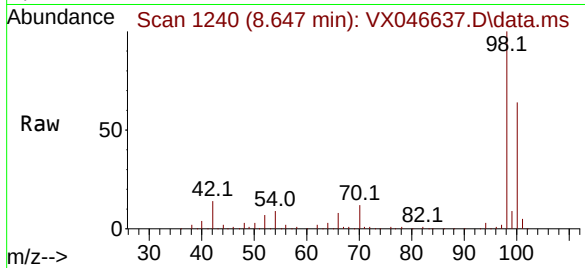




#50
Toluene-d8
Concen: 54.326 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

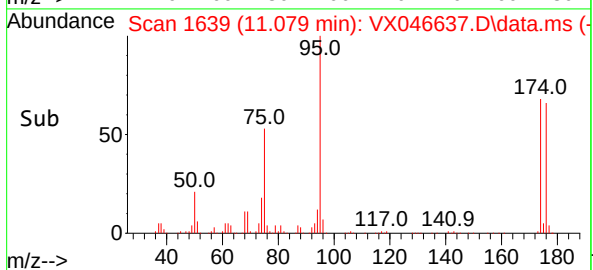
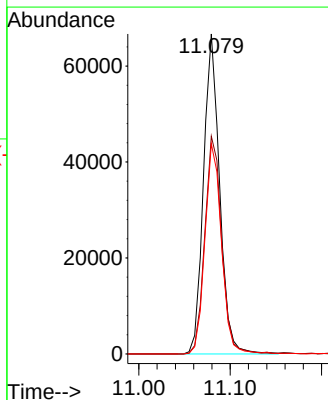
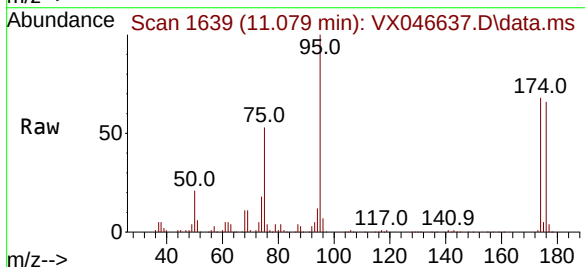
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBL02

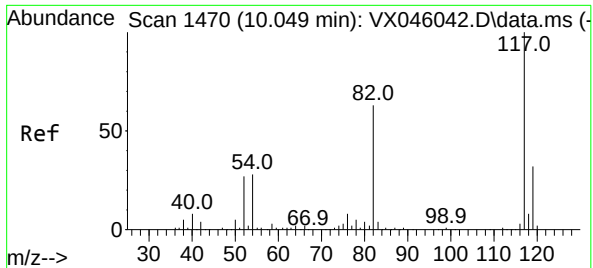
Tgt Ion: 98 Resp: 194299
Ion Ratio Lower Upper
98 100
100 65.3 53.5 80.3



#62
4-Bromofluorobenzene
Concen: 55.283 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046637.D
Acq: 11 Jun 2025 15:14

Tgt Ion: 95 Resp: 81807
Ion Ratio Lower Upper
95 100
174 71.3 0.0 135.8
176 67.5 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBL02

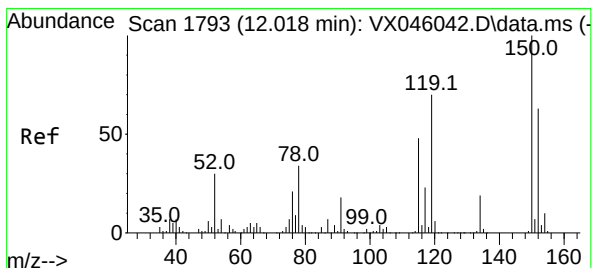
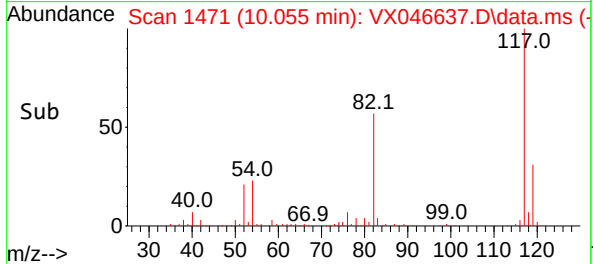
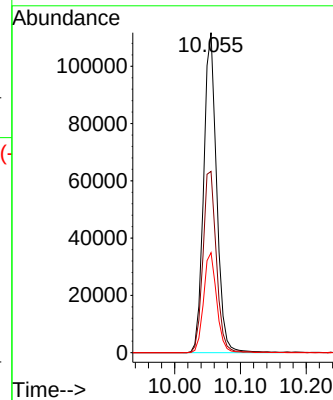
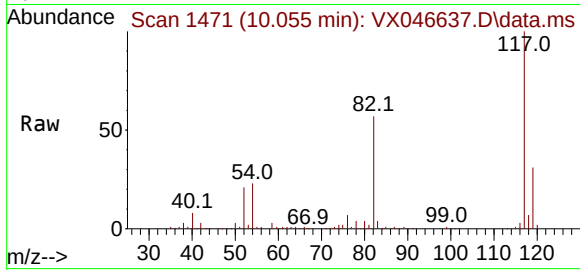
Tgt Ion:117 Resp: 153084

Ion Ratio Lower Upper

117 100

82 56.7 50.6 76.0

119 31.2 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX046637.D

Acq: 11 Jun 2025 15:14

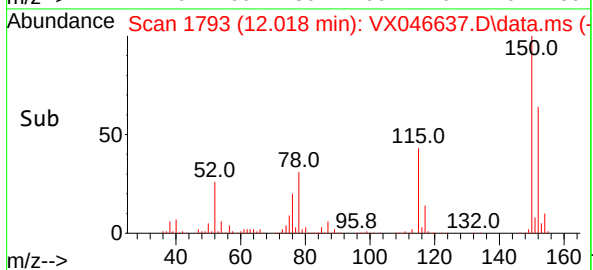
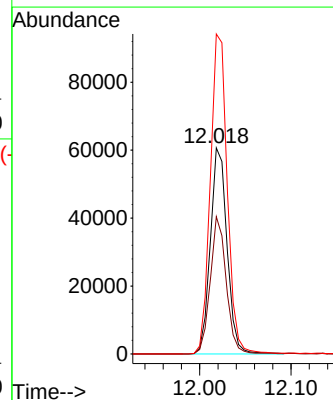
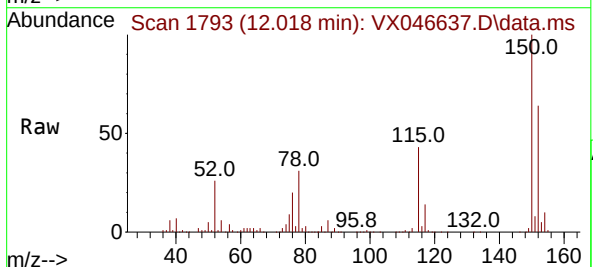
Tgt Ion:152 Resp: 77047

Ion Ratio Lower Upper

152 100

115 63.7 46.9 140.7

150 157.8 0.0 351.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VX0612WBL01	SDG No.:	Q2249
Lab Sample ID:	VX0612WBL01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046659.D	1		06/12/25 13:10	VX061225

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
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.19	U	0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.20	U	0.20	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
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
127-18-4	Tetrachloroethene	0.23	U	0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	46.2		70 (74) - 130 (125)	92%	SPK: 50
1868-53-7	Dibromofluoromethane	48.5		70 (75) - 130 (124)	97%	SPK: 50
2037-26-5	Toluene-d8	52.4		70 (86) - 130 (113)	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.6		70 (77) - 130 (121)	109%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	92200	5.568			
540-36-3	1,4-Difluorobenzene	181000	6.775			
3114-55-4	Chlorobenzene-d5	189000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	95400	12.024			

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 OC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046659.D
Acq On : 12 Jun 2025 13:10
Operator : JC/MD
Sample : VX0612WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBL01

Quant Time: Jun 13 01:42:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	92224	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	180952	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	188641	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	95358	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	75758	46.173	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	92.340%
35) Dibromofluoromethane	5.404	113	64522	48.487	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.980%
50) Toluene-d8	8.653	98	229993	52.424	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.840%
62) 4-Bromofluorobenzene	11.079	95	99118	54.605	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	109.200%

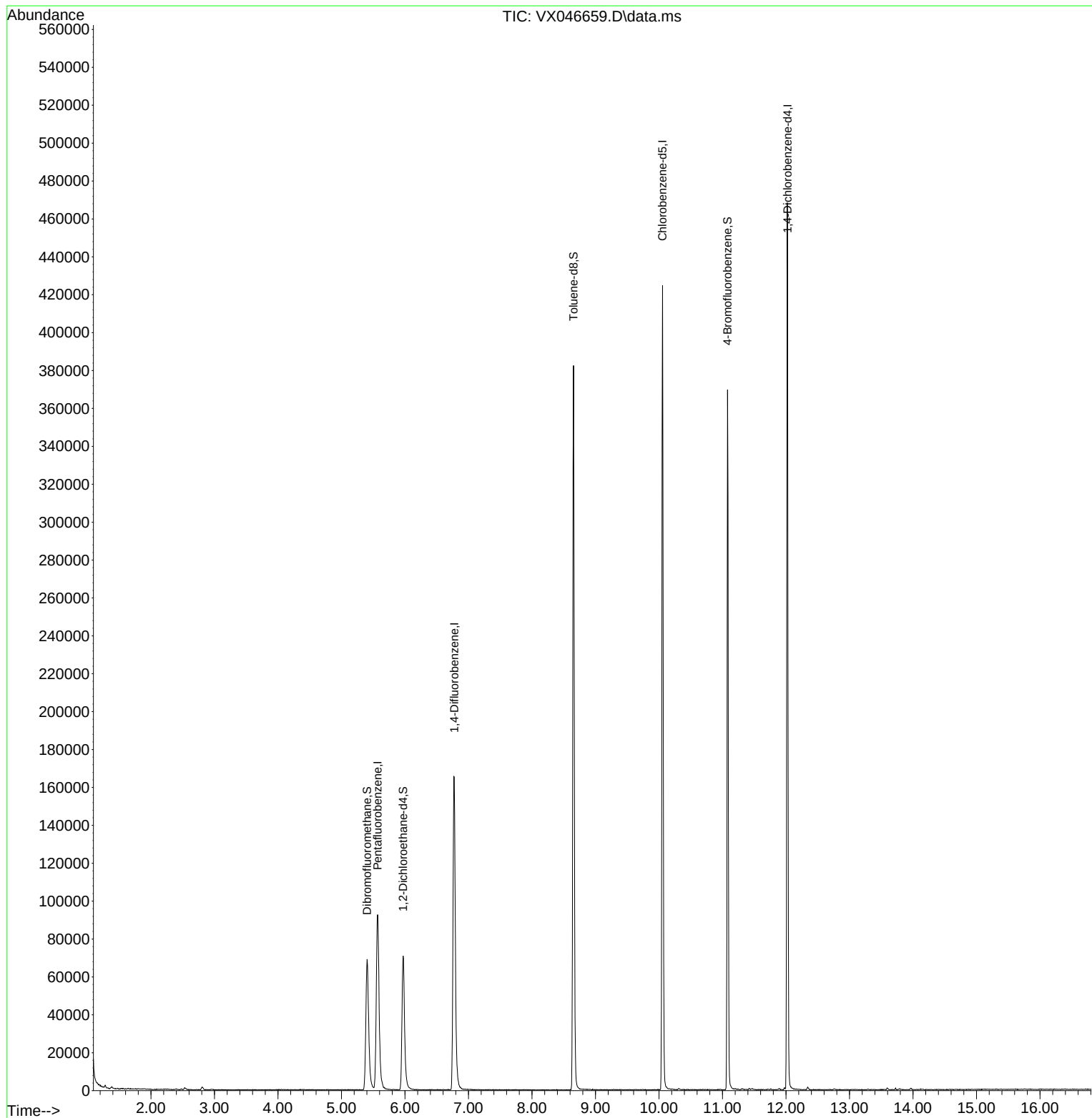
Target Compounds	Qvalue

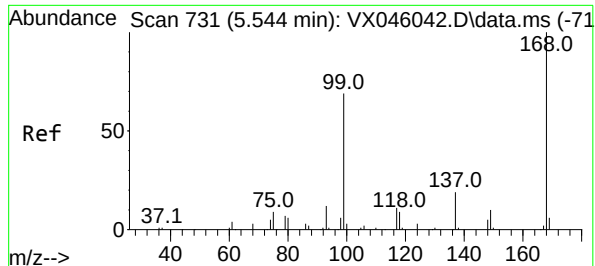
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046659.D
Acq On : 12 Jun 2025 13:10
Operator : JC/MD
Sample : VX0612WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBL01

Quant Time: Jun 13 01:42:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

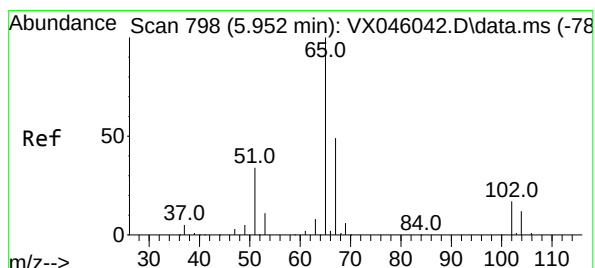
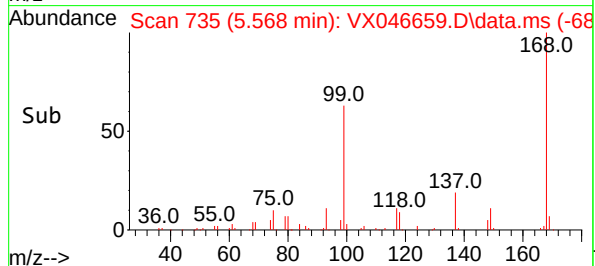
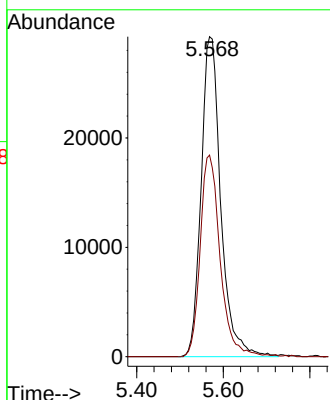
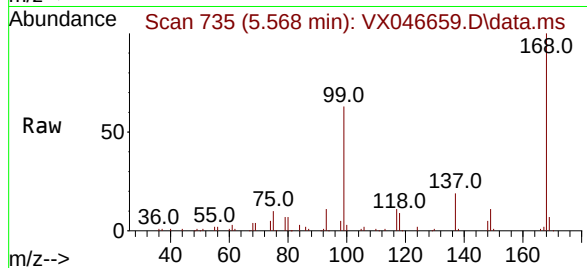




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046659.D
Acq: 12 Jun 2025 13:10

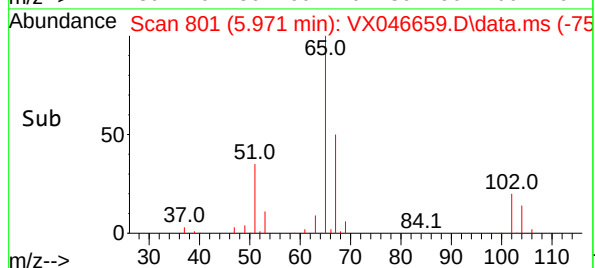
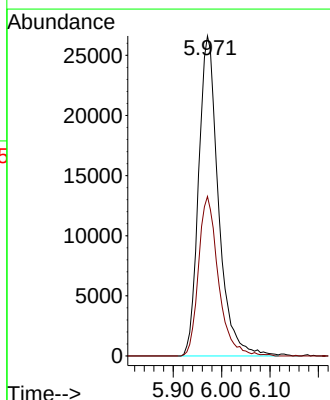
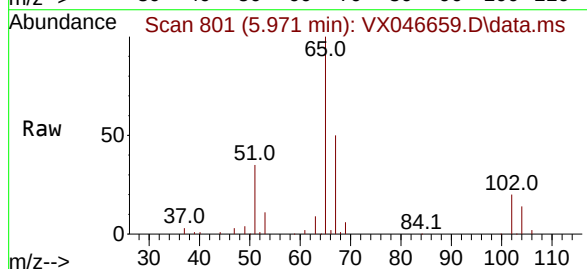
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBL01

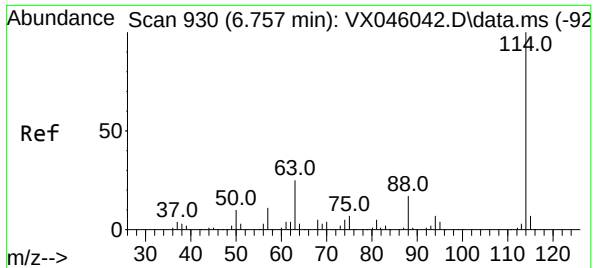
Tgt Ion:168 Resp: 92224
Ion Ratio Lower Upper
168 100
99 63.0 54.9 82.3



#33
1,2-Dichloroethane-d4
Concen: 46.173 ug/l
RT: 5.971 min Scan# 801
Delta R.T. 0.001 min
Lab File: VX046659.D
Acq: 12 Jun 2025 13:10

Tgt Ion: 65 Resp: 75758
Ion Ratio Lower Upper
65 100
67 50.0 0.0 99.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX046659.D

Acq: 12 Jun 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBL01

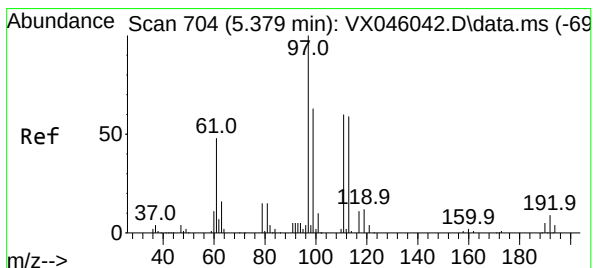
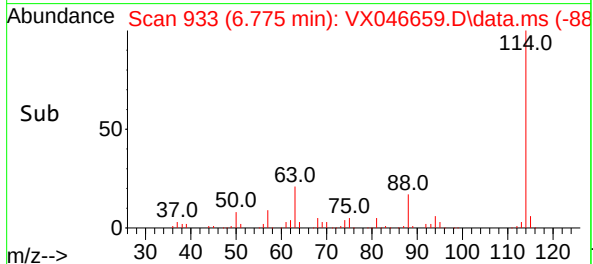
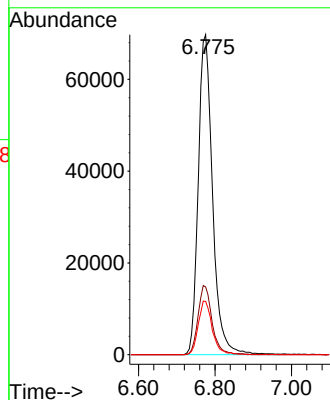
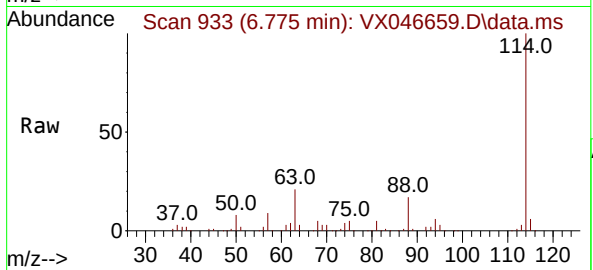
Tgt Ion:114 Resp: 180952

Ion Ratio Lower Upper

114 100

63 21.2 0.0 49.2

88 16.7 0.0 33.6



#35

Dibromofluoromethane

Concen: 48.487 ug/l

RT: 5.404 min Scan# 708

Delta R.T. 0.001 min

Lab File: VX046659.D

Acq: 12 Jun 2025 13:10

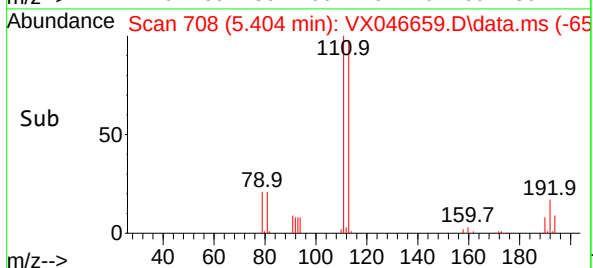
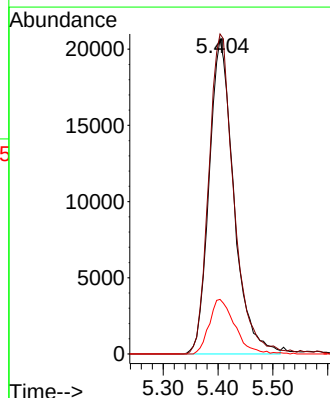
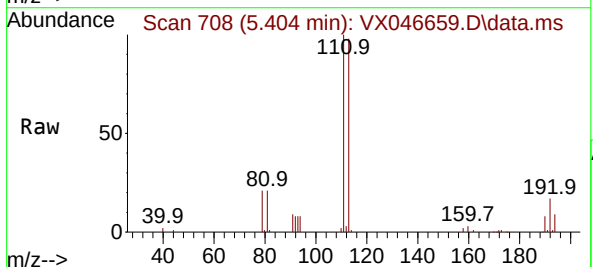
Tgt Ion:113 Resp: 64522

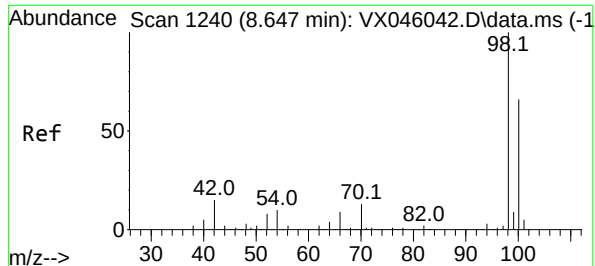
Ion Ratio Lower Upper

113 100

111 103.6 83.1 124.7

192 18.1 13.3 19.9





#50

Toluene-d8

Concen: 52.424 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046659.D

Acq: 12 Jun 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

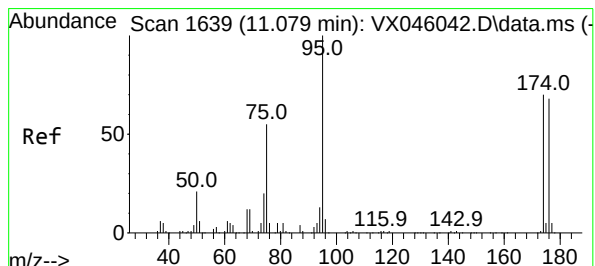
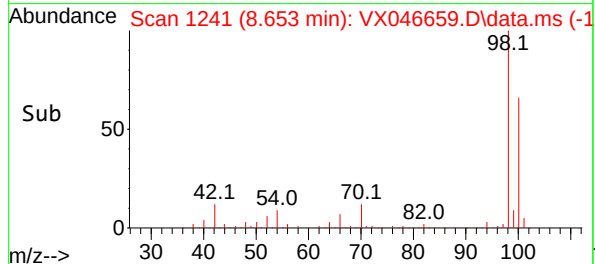
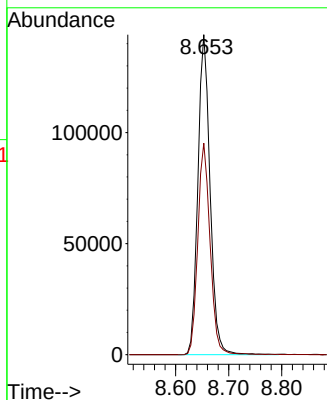
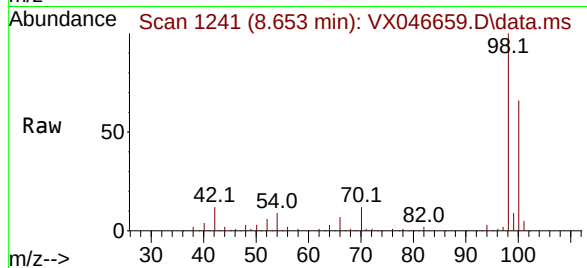
VX0612WBL01

Tgt Ion: 98 Resp: 229993

Ion Ratio Lower Upper

98 100

100 66.6 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 54.605 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046659.D

Acq: 12 Jun 2025 13:10

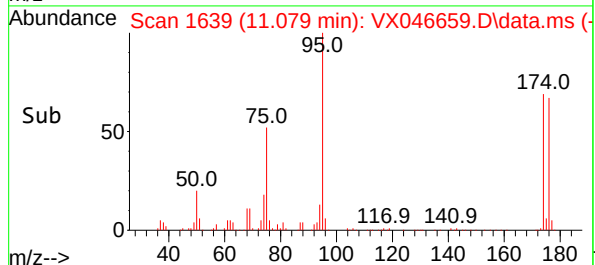
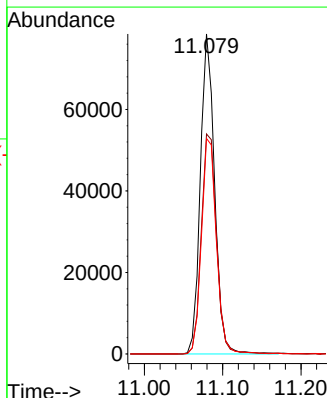
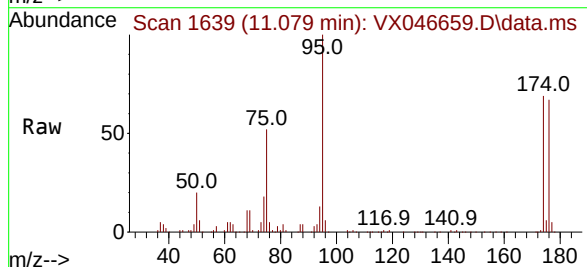
Tgt Ion: 95 Resp: 99118

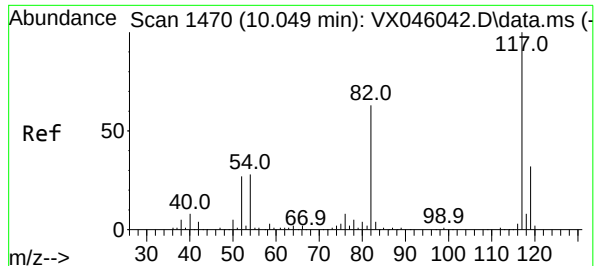
Ion Ratio Lower Upper

95 100

174 73.2 0.0 135.8

176 70.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046659.D

Acq: 12 Jun 2025 13:10

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBL01

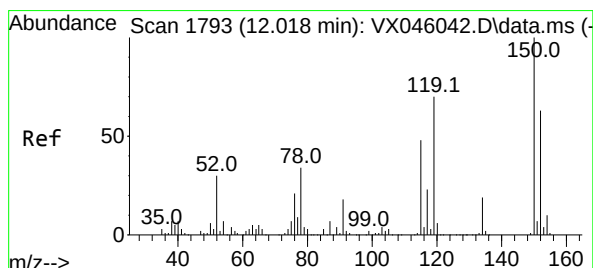
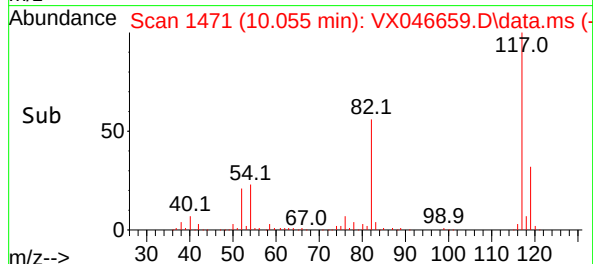
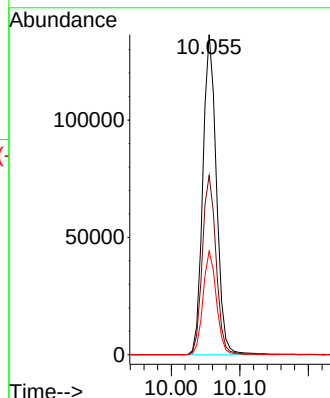
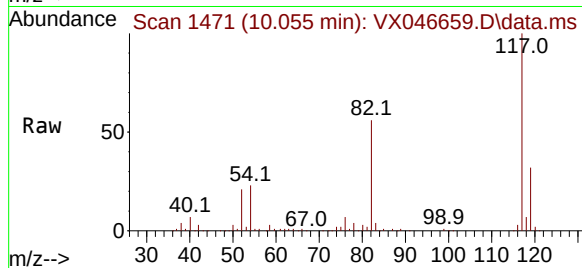
Tgt Ion:117 Resp: 188641

Ion Ratio Lower Upper

117 100

82 56.0 50.6 76.0

119 32.4 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX046659.D

Acq: 12 Jun 2025 13:10

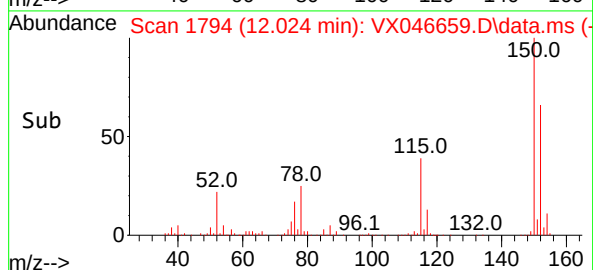
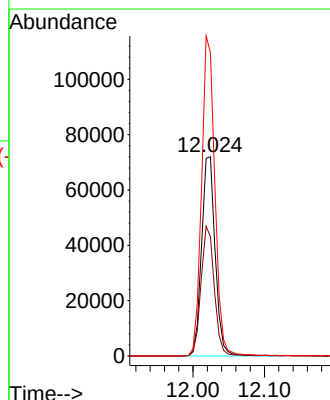
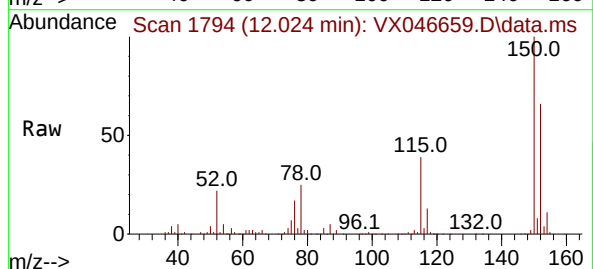
Tgt Ion:152 Resp: 95358

Ion Ratio Lower Upper

152 100

115 63.2 46.9 140.7

150 156.4 0.0 351.0



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VX0611WBS02	SDG No.:	Q2249
Lab Sample ID:	VX0611WBS02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5	Units:	mL
Soil Aliquot Vol:			uL
GC Column:	DB-624UI	ID :	0.18
Prep Method :		Level :	LOW

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046639.D	1		06/11/25 15:58	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	16.3		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.6		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.3		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.6		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.7		0.20	1.00	ug/L
71-43-2	Benzene	19.6		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.1		0.22	1.00	ug/L
79-01-6	Trichloroethene	19.2		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.8		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	18.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.0		70 (74) - 130 (125)	88%	SPK: 50
1868-53-7	Dibromofluoromethane	47.8		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	47.2		70 (86) - 130 (113)	94%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	79400	5.568			
540-36-3	1,4-Difluorobenzene	137000	6.775			
3114-55-4	Chlorobenzene-d5	126000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	66500	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\VX061125\
 Data File : VX046639.D
 Acq On : 11 Jun 2025 15:58
 Operator : JC/MD
 Sample : VX0611WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:30:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	79398	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	136732	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	125565	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	66542	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	62097	43.960	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.920%		
35) Dibromofluoromethane	5.403	113	48061	47.797	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.600%		
50) Toluene-d8	8.653	98	156454	47.195	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	94.380%		
62) 4-Bromofluorobenzene	11.079	95	66562	48.529	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.060%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	18394	16.687	ug/l	99
3) Chloromethane	1.307	50	15963	15.910	ug/l	97
4) Vinyl Chloride	1.386	62	16348	16.345	ug/l	98
5) Bromomethane	1.624	94	7595	12.509	ug/l	87
6) Chloroethane	1.703	64	11674m	17.990	ug/l	
7) Trichlorofluoromethane	1.904	101	27390	16.552	ug/l	100
8) Diethyl Ether	2.154	74	10628	18.177	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.349	101	19463	18.668	ug/l	96
10) Methyl Iodide	2.471	142	17332	15.335	ug/l	96
11) Tert butyl alcohol	2.977	59	14234	90.811	ug/l	100
12) 1,1-Dichloroethene	2.337	96	17506	18.571	ug/l	98
13) Acrolein	2.252	56	18224	114.600	ug/l	99
14) Allyl chloride	2.684	41	34592	18.685	ug/l	94
15) Acrylonitrile	3.081	53	59026	99.599	ug/l	98
16) Acetone	2.392	43	52377	97.283	ug/l	96
17) Carbon Disulfide	2.532	76	34376	17.308	ug/l	99
18) Methyl Acetate	2.721	43	35991	21.391	ug/l	98
19) Methyl tert-butyl Ether	3.129	73	65364	19.817	ug/l	97
20) Methylene Chloride	2.806	84	21399	18.883	ug/l	90
21) trans-1,2-Dichloroethene	3.111	96	18113	18.157	ug/l	99
22) Diisopropyl ether	3.782	45	72174	19.774	ug/l #	78
23) Vinyl Acetate	3.739	43	277051	98.316	ug/l	99
24) 1,1-Dichloroethane	3.635	63	39252	19.296	ug/l	99
25) 2-Butanone	4.574	43	77024	97.951	ug/l	98
26) 2,2-Dichloropropane	4.495	77	29063	19.245	ug/l	97
27) cis-1,2-Dichloroethene	4.507	96	24101	19.625	ug/l	94
28) Bromochloromethane	4.916	49	20247	20.868	ug/l	99
29) Tetrahydrofuran	5.025	42	47052	94.747	ug/l	97
30) Chloroform	5.111	83	42286	19.839	ug/l	98
31) Cyclohexane	5.489	56	30482	18.562	ug/l	96
32) 1,1,1-Trichloroethane	5.403	97	35963	19.725	ug/l	96
36) 1,1-Dichloropropene	5.708	75	26155	18.210	ug/l	99
37) Ethyl Acetate	4.733	43	30379	21.671	ug/l	99
38) Carbon Tetrachloride	5.696	117	30021	18.661	ug/l	97
39) Methylcyclohexane	7.391	83	29760	17.554	ug/l	95
40) Benzene	6.056	78	79373	19.630	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046639.D
 Acq On : 11 Jun 2025 15:58
 Operator : JC/MD
 Sample : VX0611WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:30:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	16254	18.672	ug/l	92
42) 1,2-Dichloroethane	6.098	62	32150	19.112	ug/l	96
43) Isopropyl Acetate	6.354	43	48194	19.720	ug/l	99
44) Trichloroethene	7.135	130	19685	19.160	ug/l	97
45) 1,2-Dichloropropane	7.434	63	21637	20.731	ug/l	98
46) Dibromomethane	7.592	93	15586	19.851	ug/l	97
47) Bromodichloromethane	7.830	83	33270	20.608	ug/l	98
48) Methyl methacrylate	7.702	41	24852	19.765	ug/l	95
49) 1,4-Dioxane	7.671	88	6382	379.544	ug/l	99
51) 4-Methyl-2-Pentanone	8.580	43	163442	105.244	ug/l	100
52) Toluene	8.720	92	50204	20.210	ug/l	100
53) t-1,3-Dichloropropene	8.982	75	28921	19.980	ug/l	97
54) cis-1,3-Dichloropropene	8.372	75	32006	19.887	ug/l	93
55) 1,1,2-Trichloroethane	9.153	97	21703	21.763	ug/l	98
56) Ethyl methacrylate	9.122	69	31509	20.532	ug/l	96
57) 1,3-Dichloropropane	9.311	76	35983	20.418	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.244	63	88166	105.474	ug/l	99
59) 2-Hexanone	9.433	43	115060	103.306	ug/l	98
60) Dibromochloromethane	9.525	129	24066	20.516	ug/l	98
61) 1,2-Dibromoethane	9.610	107	21076	20.281	ug/l	96
64) Tetrachloroethene	9.275	164	15135	18.025	ug/l	96
65) Chlorobenzene	10.079	112	57335	19.415	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.165	131	20729	20.772	ug/l	99
67) Ethyl Benzene	10.195	91	99024	19.208	ug/l	98
68) m/p-Xylenes	10.299	106	74956	40.080	ug/l	98
69) o-Xylene	10.640	106	36413	20.130	ug/l	100
70) Styrene	10.653	104	64851	20.944	ug/l	97
71) Bromoform	10.799	173	15814	20.783	ug/l #	99
73) Isopropylbenzene	10.963	105	99709	19.062	ug/l	99
74) N-amyl acetate	10.841	43	41919	18.198	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	33081	19.758	ug/l	100
76) 1,2,3-Trichloropropane	11.238	75	26532m	18.824	ug/l	
77) Bromobenzene	11.195	156	23318	19.206	ug/l	96
78) n-propylbenzene	11.305	91	118948	18.787	ug/l	100
79) 2-Chlorotoluene	11.366	91	71722	18.786	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	82556	18.940	ug/l	99
81) trans-1,4-Dichloro-2-b...	11.018	75	8445	17.284	ug/l	99
82) 4-Chlorotoluene	11.451	91	83845	18.528	ug/l	96
83) tert-Butylbenzene	11.713	119	85087	19.176	ug/l	97
84) 1,2,4-Trimethylbenzene	11.750	105	84799	19.231	ug/l	100
85) sec-Butylbenzene	11.890	105	110228	19.333	ug/l	100
86) p-Isopropyltoluene	12.006	119	89892	18.912	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	44656	18.941	ug/l	99
88) 1,4-Dichlorobenzene	12.043	146	45863	18.773	ug/l	98
89) n-Butylbenzene	12.329	91	85456	18.308	ug/l	99
90) Hexachloroethane	12.536	117	15011	17.769	ug/l	100
91) 1,2-Dichlorobenzene	12.335	146	44193	19.419	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6962	18.569	ug/l	91
93) 1,2,4-Trichlorobenzene	13.585	180	28946	18.645	ug/l	100
94) Hexachlorobutadiene	13.725	225	12700	17.603	ug/l	98
95) Naphthalene	13.774	128	94270	19.148	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	28547	18.338	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046639.D
Acq On : 11 Jun 2025 15:58
Operator : JC/MD
Sample : VX0611WBS02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

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

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

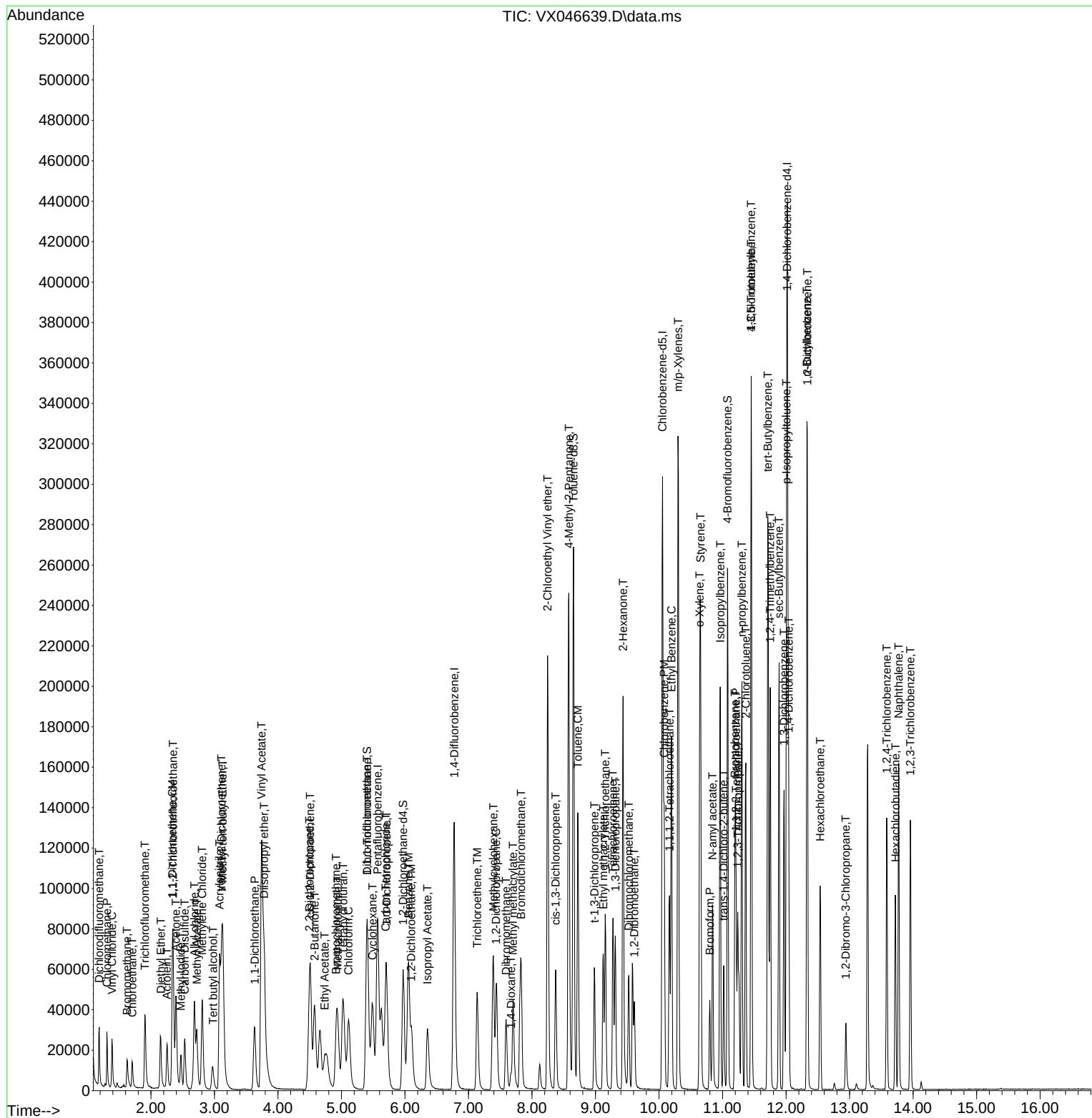
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Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\  
Data File : VX046639.D  
Acq On    : 11 Jun 2025  15:58  
Operator  : JC/MD  
Sample    : VX0611WBS02  
Misc      : 5.0mL/MSVOA_X/WATER  
ALS Vial  : 13   Sample Multiplier: 1
```

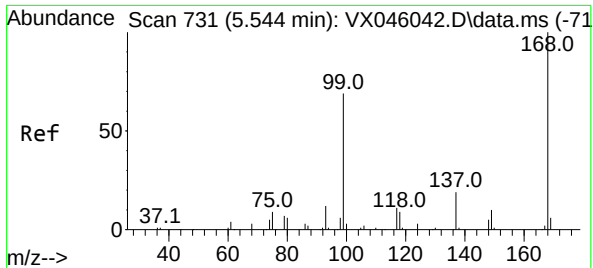
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Manual Integrations

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:30:35 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration





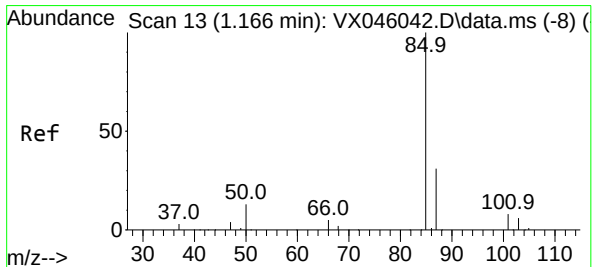
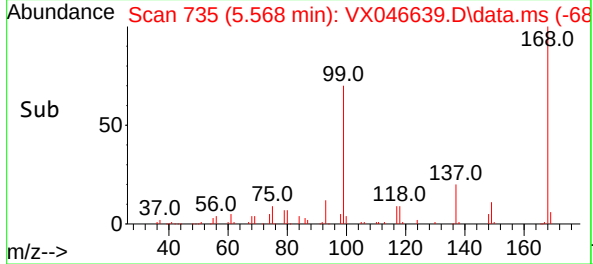
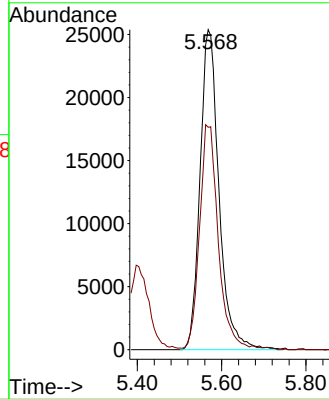
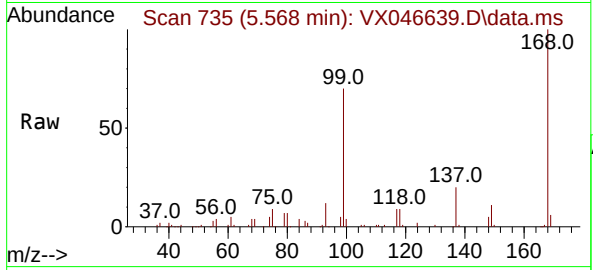
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:168 Resp: 79398
Ion Ratio Lower Upper
168 100
99 69.5 54.9 82.3

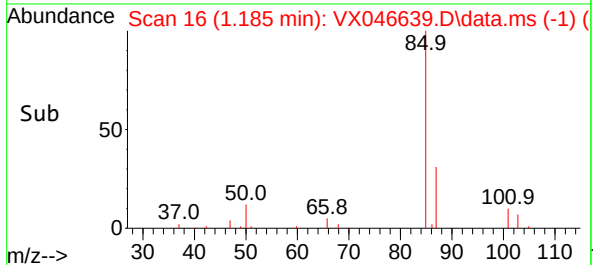
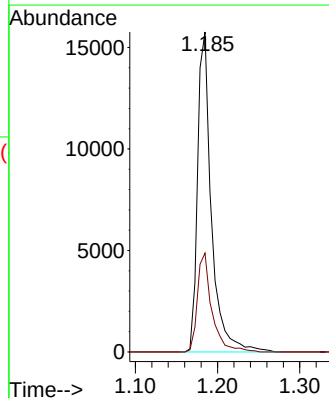
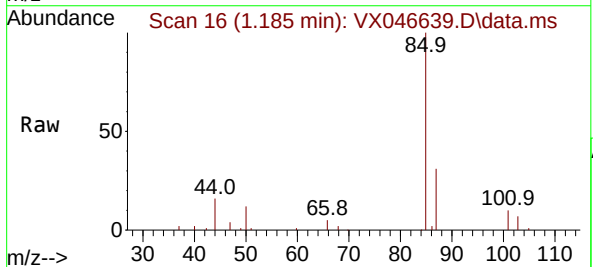
Manual Integrations
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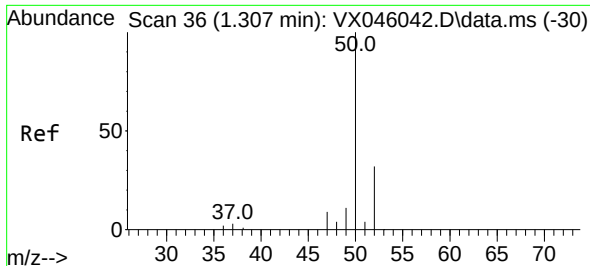
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 16.687 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

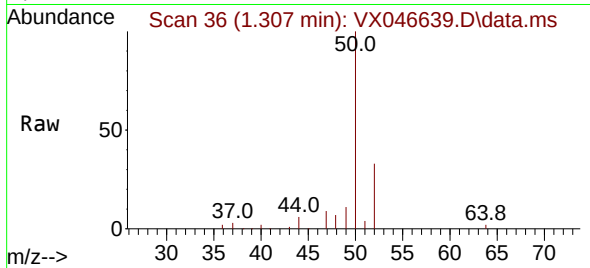
Tgt Ion: 85 Resp: 18394
Ion Ratio Lower Upper
85 100
87 30.9 15.7 47.1





#3
Chloromethane
Concen: 15.910 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

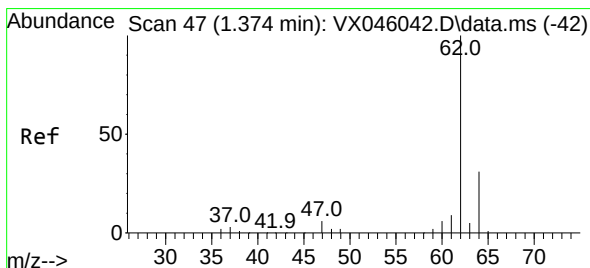
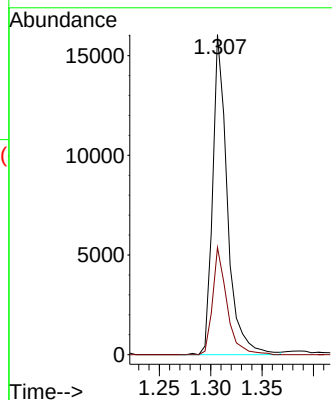
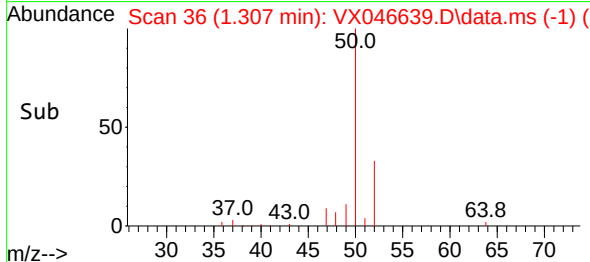
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 50 Resp: 1596
Ion Ratio Lower Upper
50 100
52 33.5 25.4 38.2

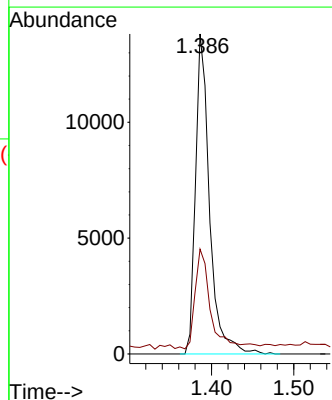
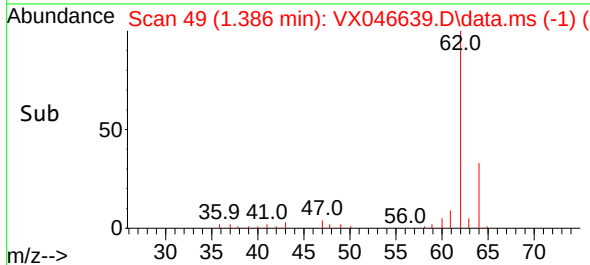
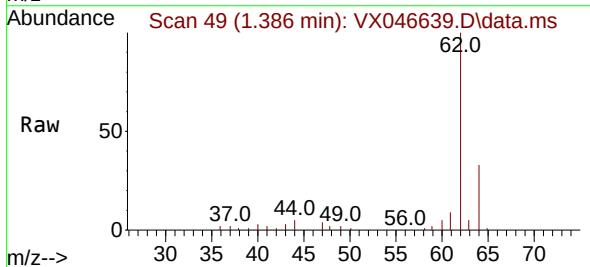
Manual Integrations
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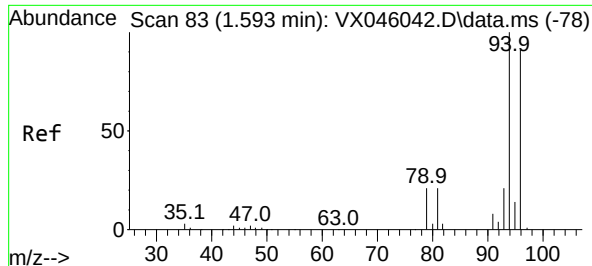
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 16.345 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 62 Resp: 16348
Ion Ratio Lower Upper
62 100
64 30.6 25.2 37.8





#5

Bromomethane

Concen: 12.509 ug/l

RT: 1.624 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 94 Resp: 759

Ion Ratio Lower Upper

94 100

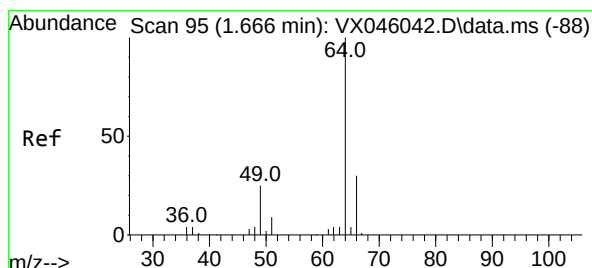
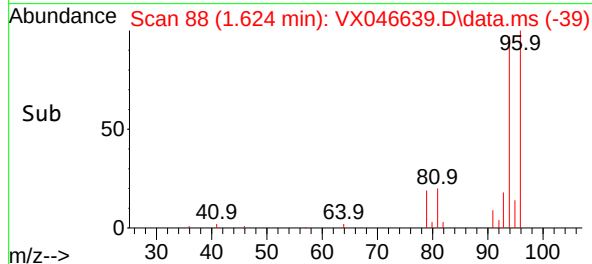
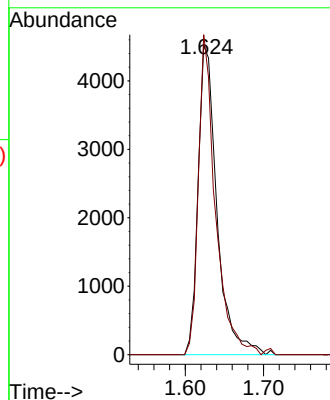
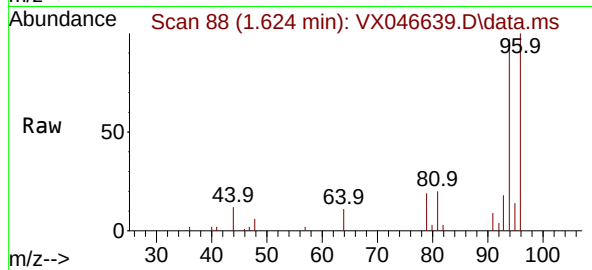
96 103.5 72.8 109.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#6

Chloroethane

Concen: 17.990 ug/l m

RT: 1.703 min Scan# 101

Delta R.T. -0.000 min

Lab File: VX046639.D

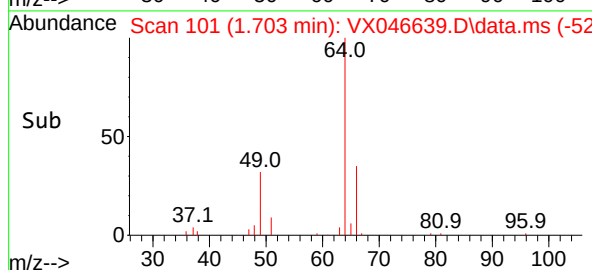
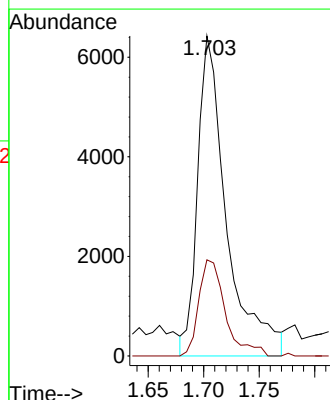
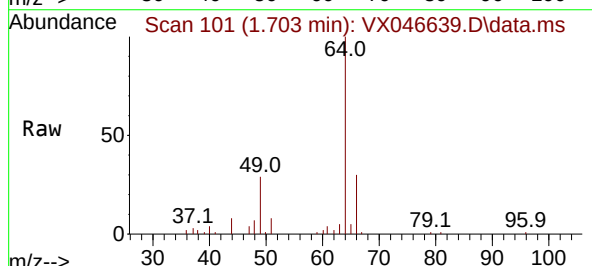
Acq: 11 Jun 2025 15:58

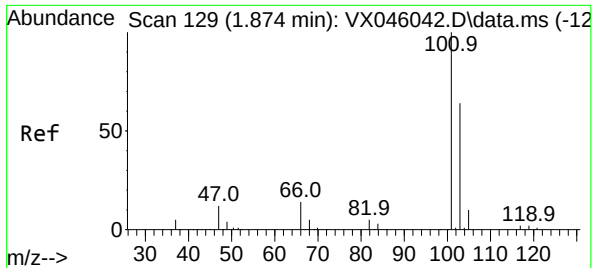
Tgt Ion: 64 Resp: 11674

Ion Ratio Lower Upper

64 100

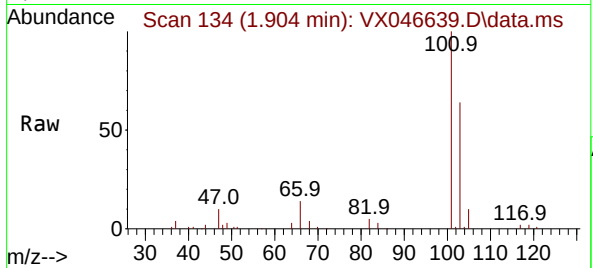
66 30.1 24.3 36.5





#7
Trichlorofluoromethane
Concen: 16.552 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

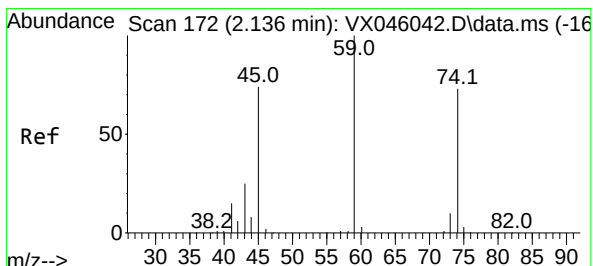
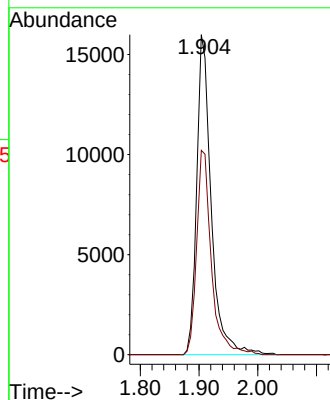
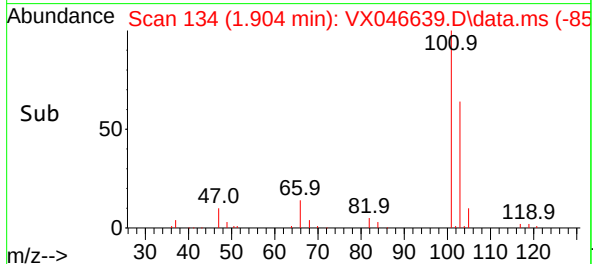
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion:101 Resp: 27390
Ion Ratio Lower Upper
101 100
103 63.9 51.0 76.4

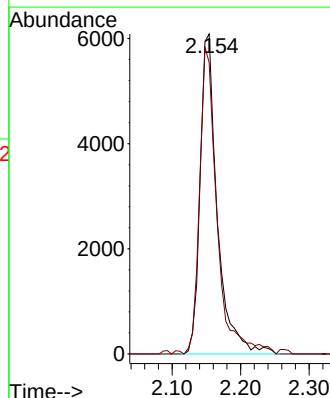
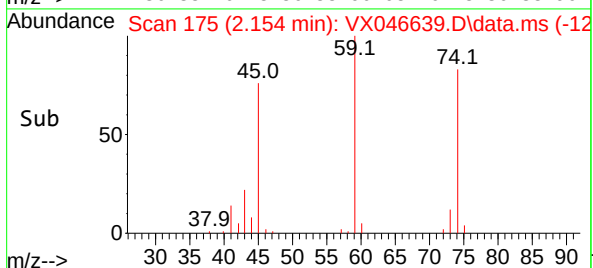
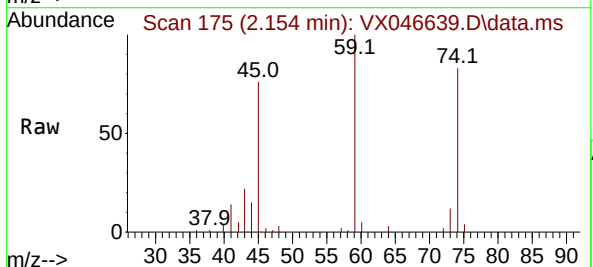
Manual Integrations
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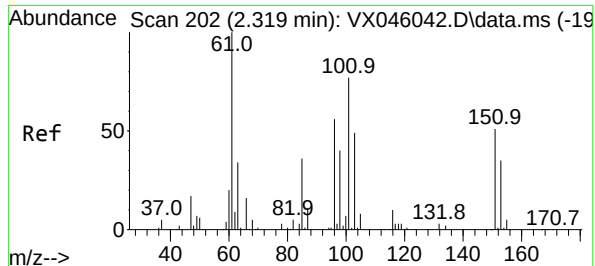
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#8
Diethyl Ether
Concen: 18.177 ug/l
RT: 2.154 min Scan# 175
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 74 Resp: 10628
Ion Ratio Lower Upper
74 100
45 97.5 54.9 164.8





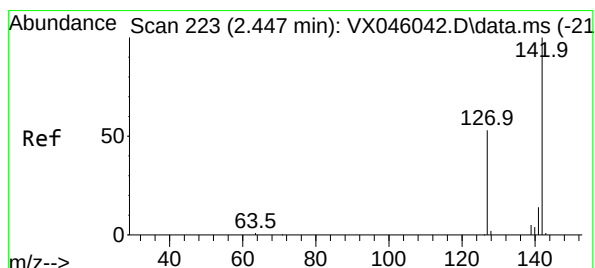
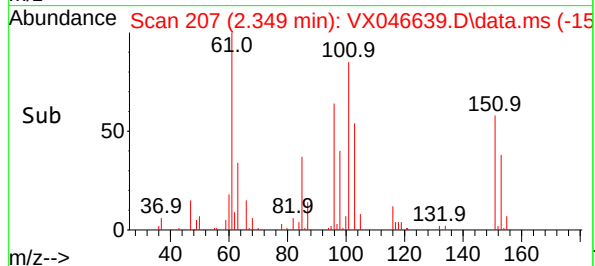
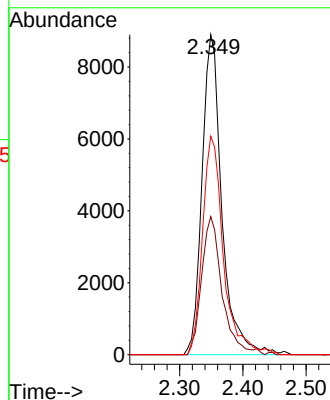
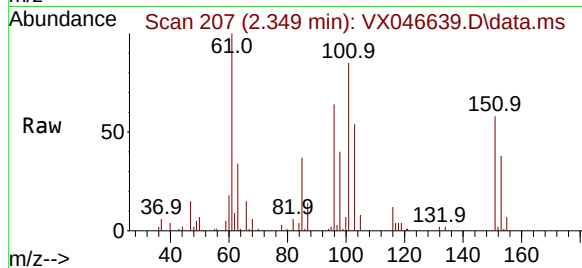
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.668 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:101 Resp: 1946
Ion Ratio Lower Upper
101 100
85 44.6 38.6 58.0
151 71.8 55.2 82.8

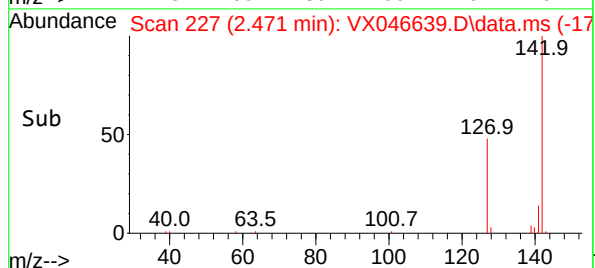
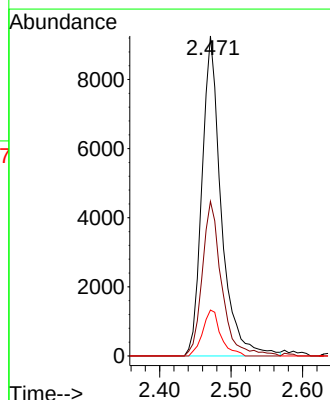
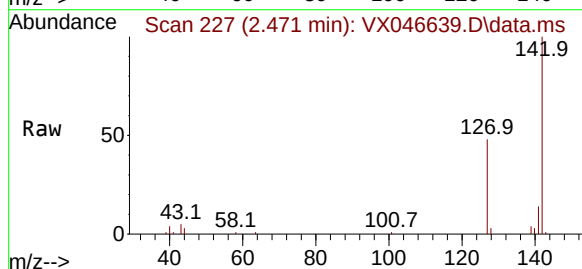
Manual Integrations
APPROVED

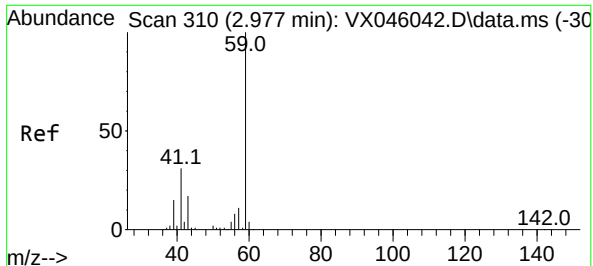
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#10
Methyl Iodide
Concen: 15.335 ug/l
RT: 2.471 min Scan# 227
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:142 Resp: 17332
Ion Ratio Lower Upper
142 100
127 48.7 41.7 62.5
141 13.5 11.5 17.3





#11

Tert butyl alcohol

Concen: 90.811 ug/l

RT: 2.977 min Scan# 310

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 59 Resp: 14234

Ion Ratio Lower Upper

59 100

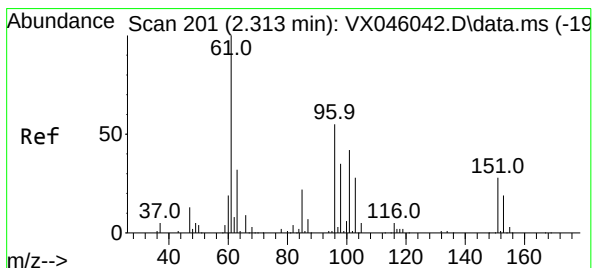
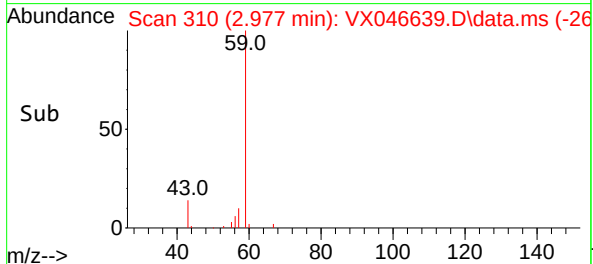
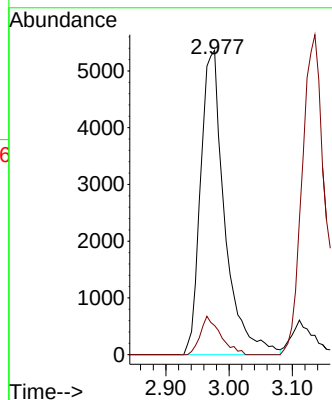
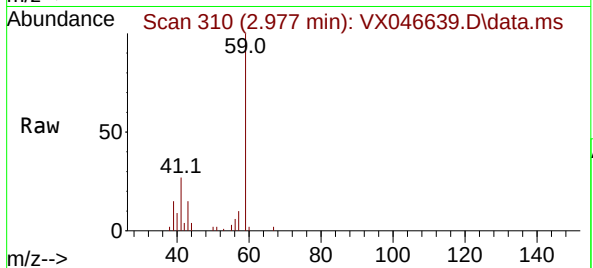
57 10.6 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 18.571 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

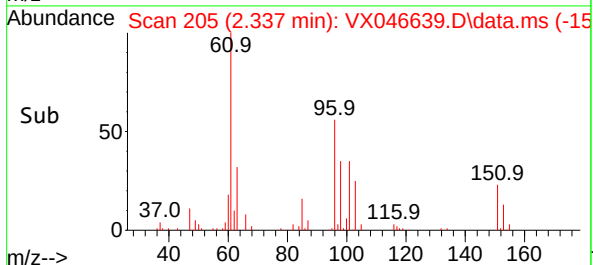
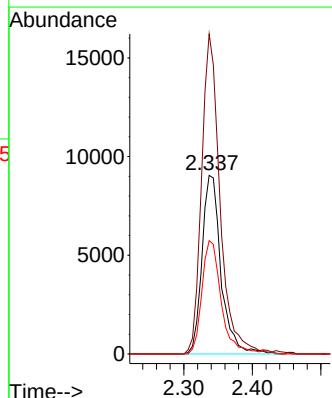
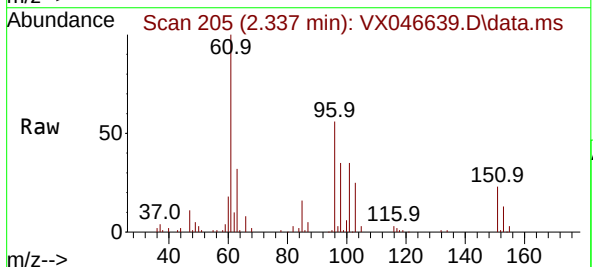
Tgt Ion: 96 Resp: 17506

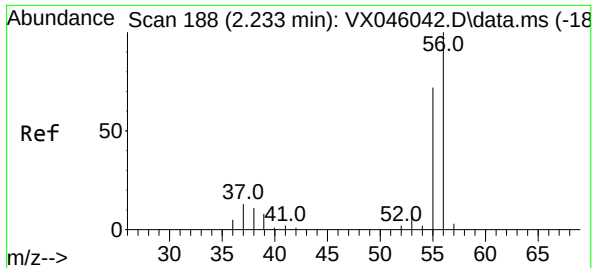
Ion Ratio Lower Upper

96 100

61 179.2 146.2 219.2

98 63.4 51.0 76.6





#13

Acrolein

Concen: 114.600 ug/l

RT: 2.252 min Scan# 1822

Delta R.T. 0.001 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 56 Resp: 1822

Ion Ratio Lower Upper

56 100

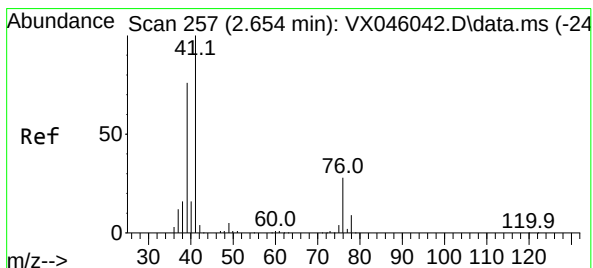
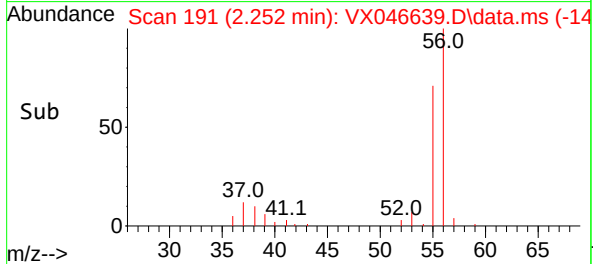
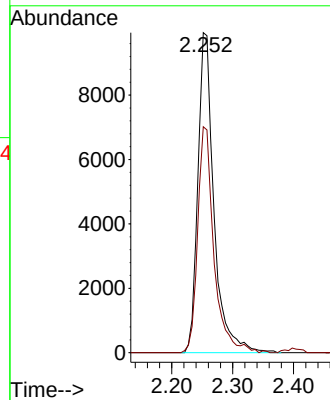
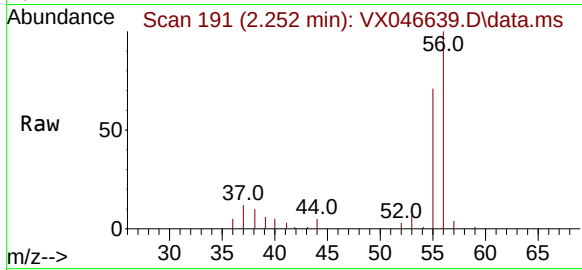
55 71.3 56.2 84.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#14

Allyl chloride

Concen: 18.685 ug/l

RT: 2.684 min Scan# 262

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

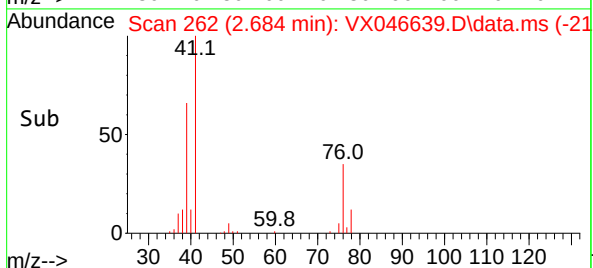
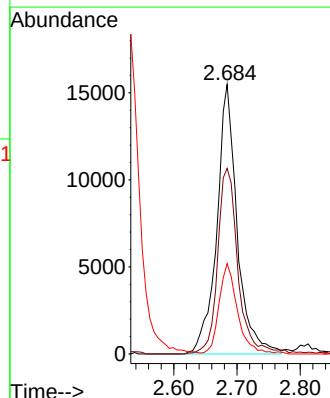
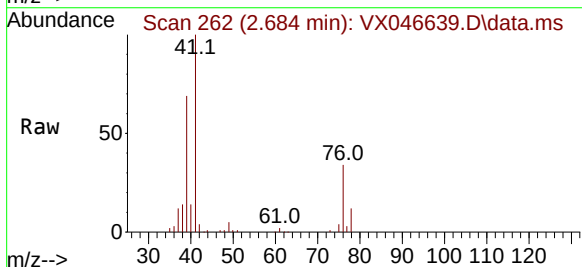
Tgt Ion: 41 Resp: 34592

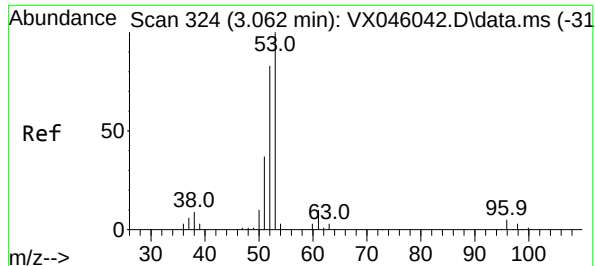
Ion Ratio Lower Upper

41 100

39 69.2 60.6 90.8

76 29.3 24.9 37.3





#15

Acrylonitrile

Concen: 99.599 ug/l

RT: 3.081 min Scan# 31

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

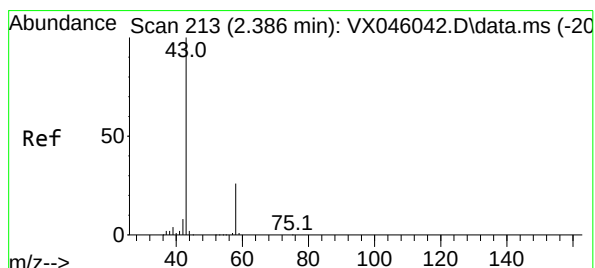
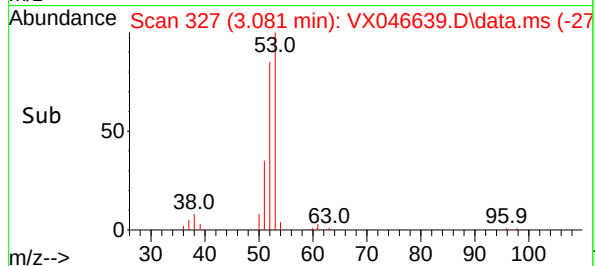
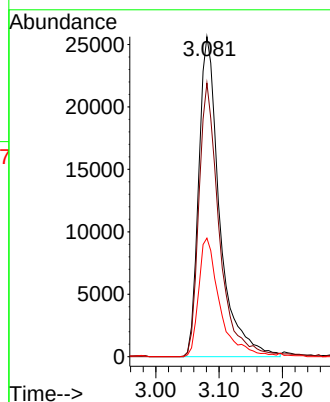
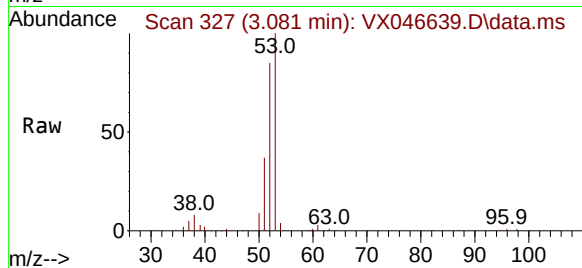
VX0611WBS02

Tgt Ion: 53	Resp: 59020
Ion Ratio	Lower Upper
53 100	
52 84.0	65.3 97.9
51 37.5	29.8 44.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 97.283 ug/l

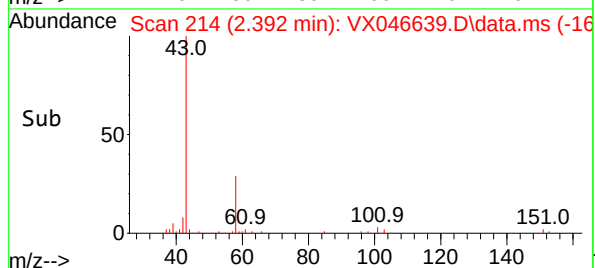
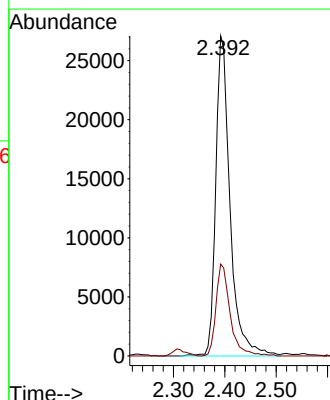
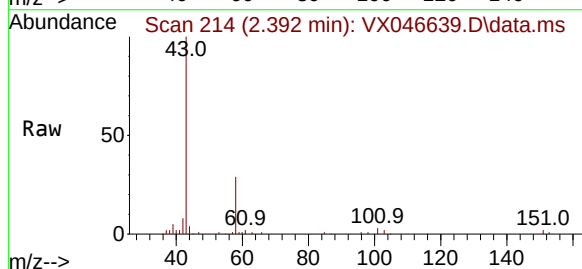
RT: 2.392 min Scan# 214

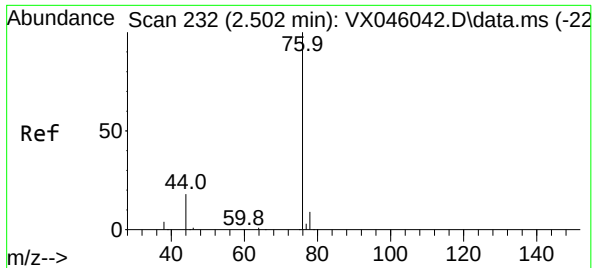
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

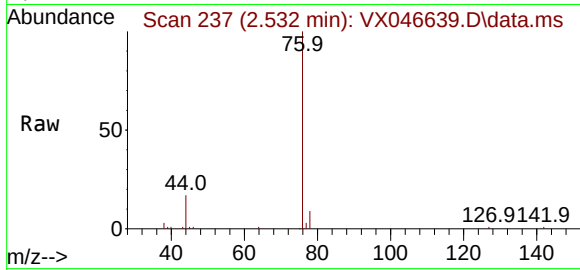
Tgt Ion: 43	Resp: 52377
Ion Ratio	Lower Upper
43 100	
58 28.7	21.2 31.8





#17
Carbon Disulfide
Concen: 17.308 ug/l
RT: 2.532 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

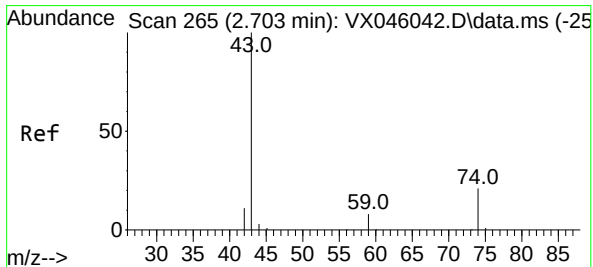
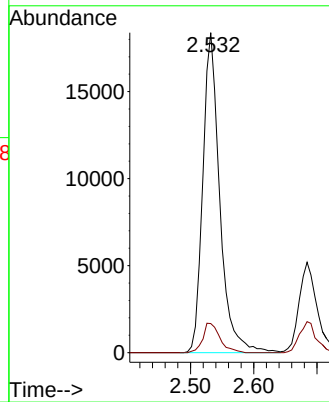
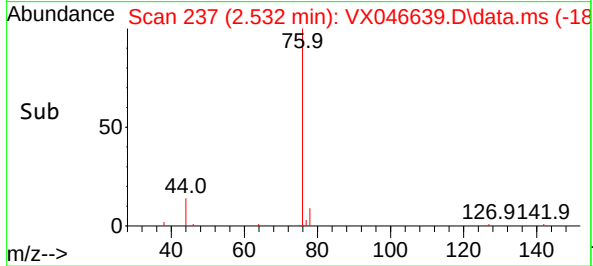
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 76 Resp: 34370
Ion Ratio Lower Upper
76 100
78 9.1 7.0 10.4

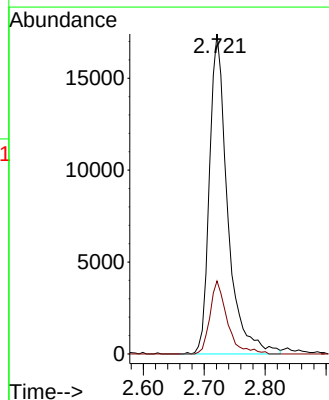
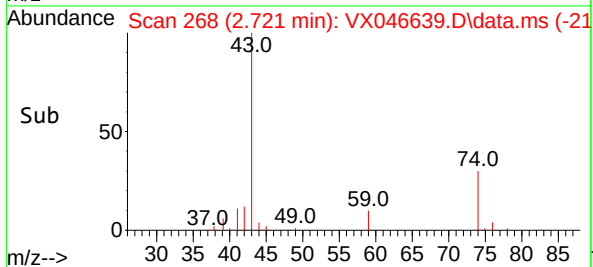
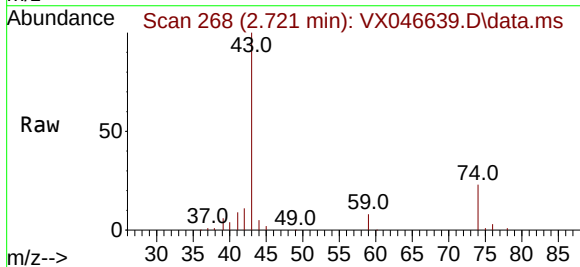
Manual Integrations
APPROVED

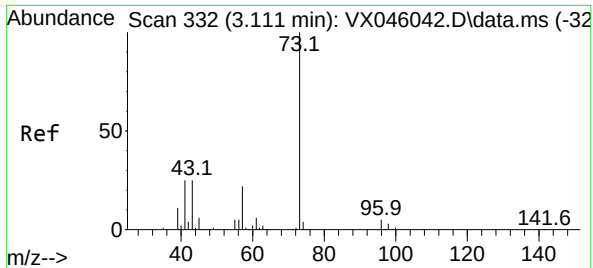
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#18
Methyl Acetate
Concen: 21.391 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 43 Resp: 35991
Ion Ratio Lower Upper
43 100
74 21.7 16.7 25.1





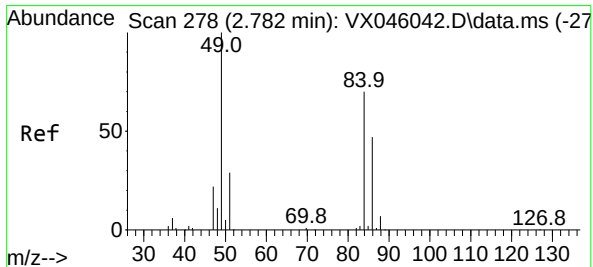
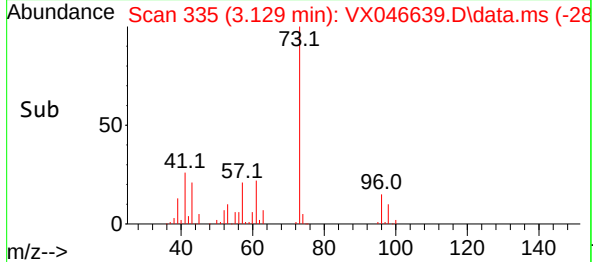
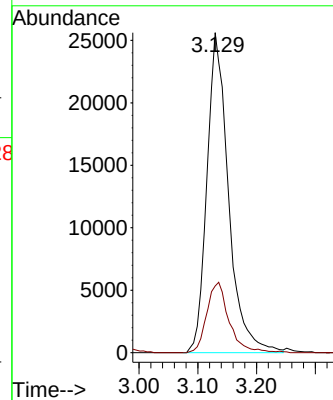
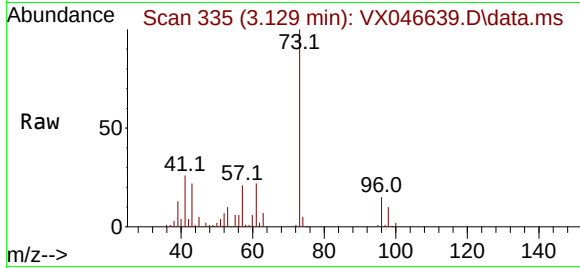
#19
Methyl tert-butyl Ether
Concen: 19.817 ug/l
RT: 3.129 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 73 Resp: 65364
Ion Ratio Lower Upper
73 100
57 20.8 17.7 26.5

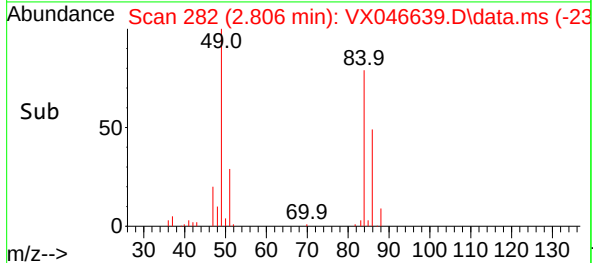
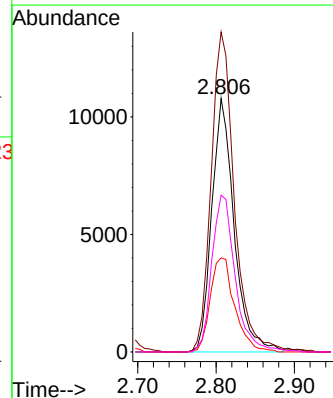
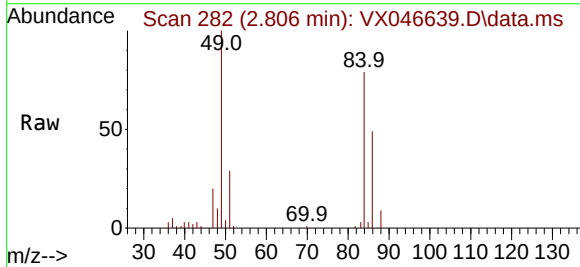
Manual Integrations
APPROVED

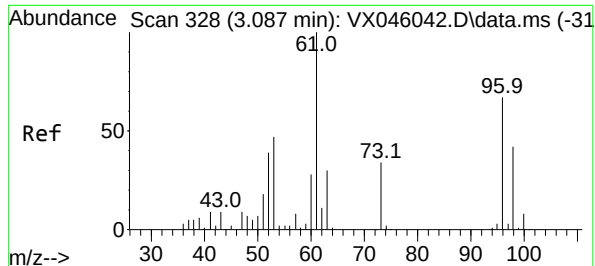
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#20
Methylene Chloride
Concen: 18.883 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

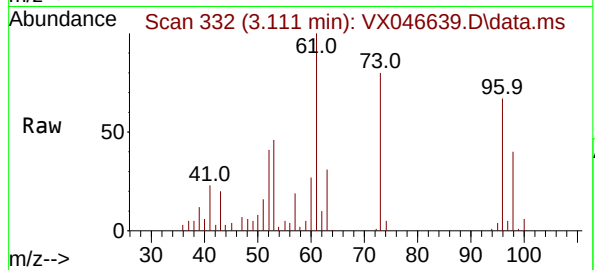
Tgt Ion: 84 Resp: 21399
Ion Ratio Lower Upper
84 100
49 126.3 113.9 170.9
51 37.1 33.5 50.3
86 61.9 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 18.157 ug/l
RT: 3.111 min Scan# 311
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

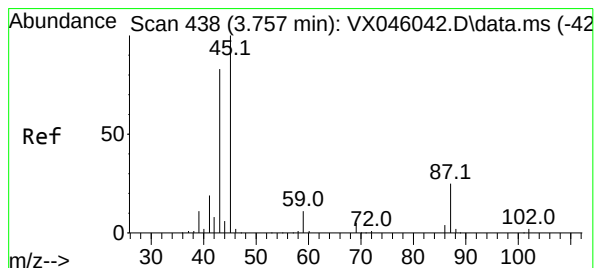
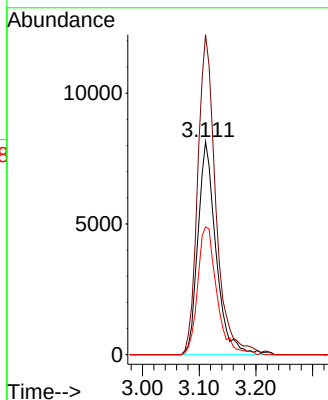
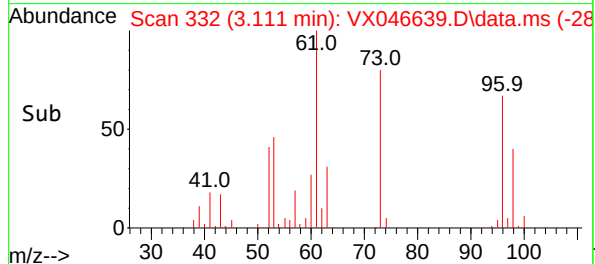
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 96 Resp: 1811
Ion Ratio Lower Upper
96 100
61 150.1 119.5 179.3
98 60.0 50.0 75.0

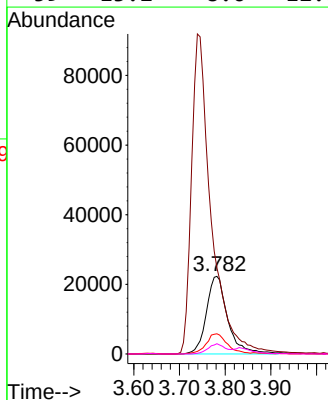
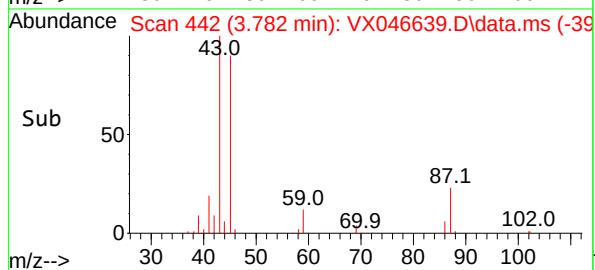
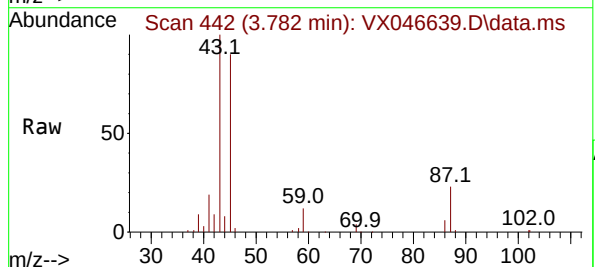
Manual Integrations
APPROVED

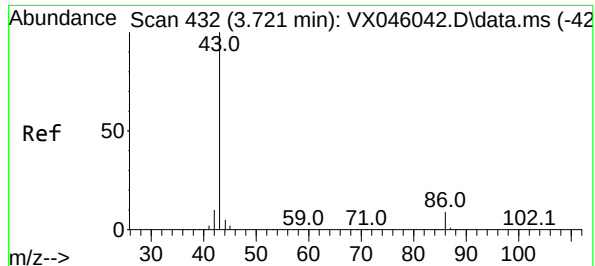
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#22
Diisopropyl ether
Concen: 19.774 ug/l
RT: 3.782 min Scan# 442
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 45 Resp: 72174
Ion Ratio Lower Upper
45 100
43 110.5 66.6 100.0#
87 26.0 19.8 29.6
59 13.2 8.6 12.8#





#23

Vinyl Acetate

Concen: 98.316 ug/l

RT: 3.739 min Scan# 41

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 27705

Ion Ratio Lower Upper

43 100

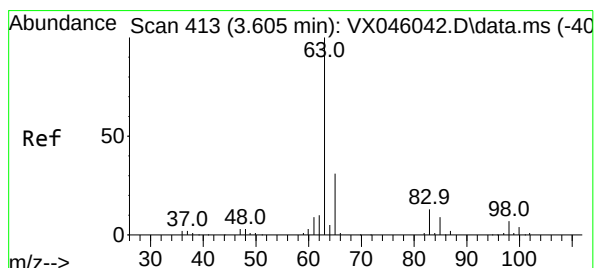
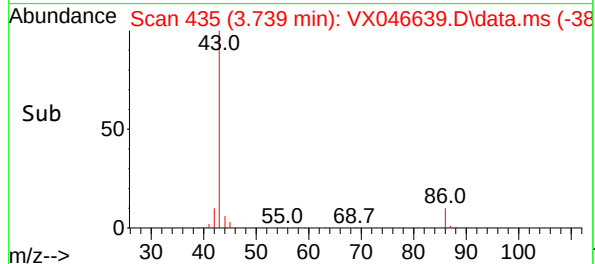
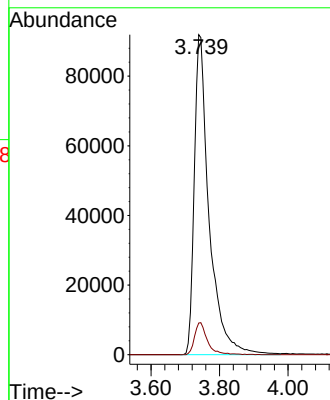
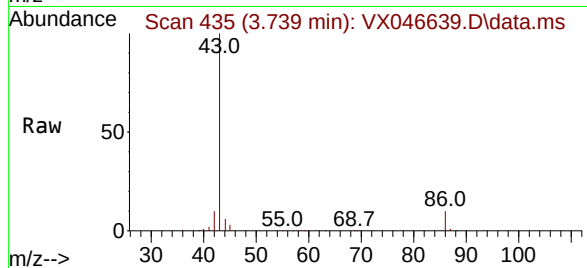
86 9.9 7.5 11.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#24

1,1-Dichloroethane

Concen: 19.296 ug/l

RT: 3.635 min Scan# 418

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

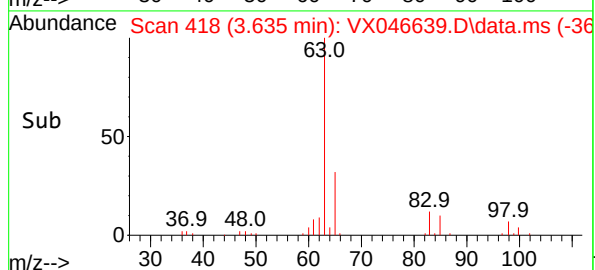
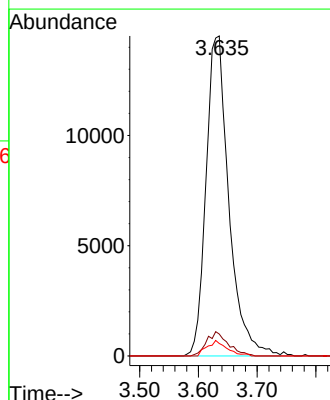
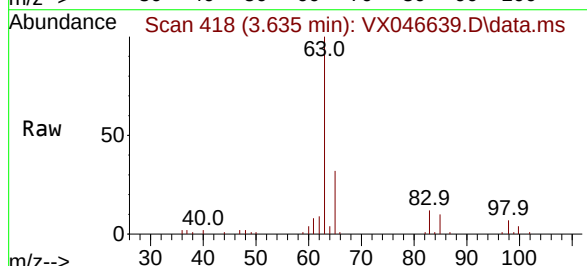
Tgt Ion: 63 Resp: 39252

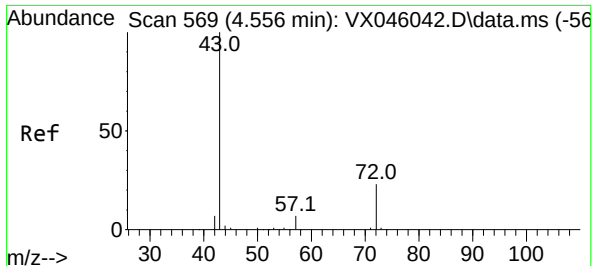
Ion Ratio Lower Upper

63 100

98 6.8 3.6 10.8

100 3.9 2.1 6.3





#25

2-Butanone

Concen: 97.951 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 77024

Ion Ratio Lower Upper

43 100

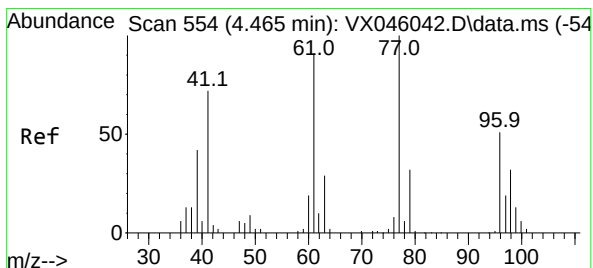
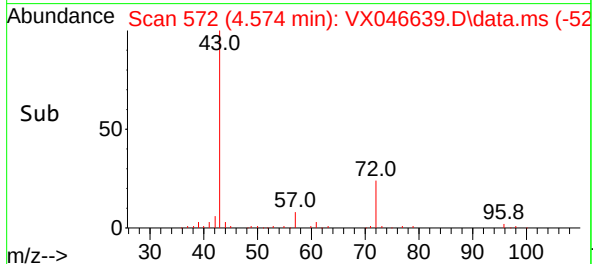
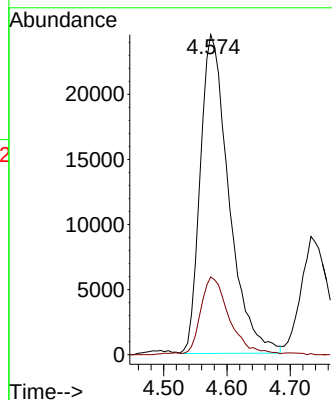
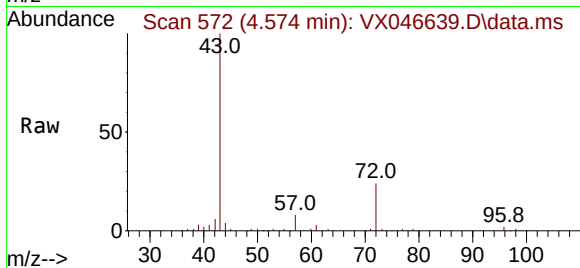
72 24.1 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 19.245 ug/l

RT: 4.495 min Scan# 559

Delta R.T. 0.000 min

Lab File: VX046639.D

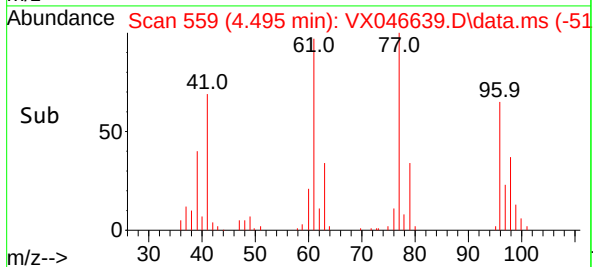
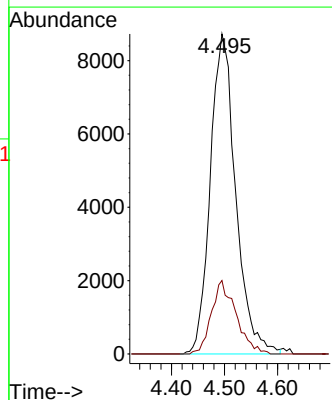
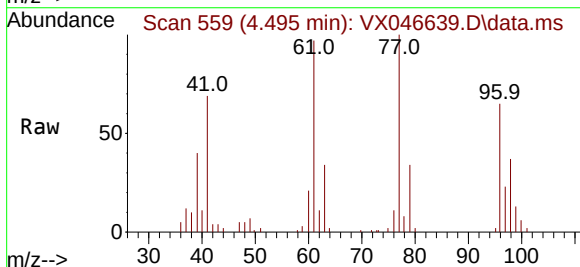
Acq: 11 Jun 2025 15:58

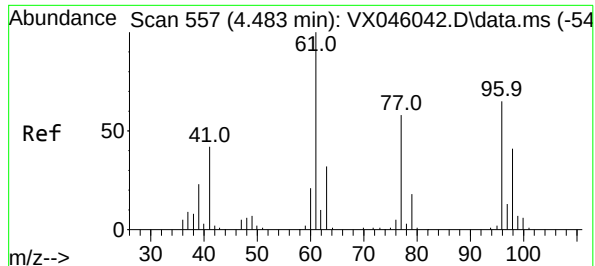
Tgt Ion: 77 Resp: 29063

Ion Ratio Lower Upper

77 100

97 22.3 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 19.625 ug/l

RT: 4.507 min Scan# 51

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 96 Resp: 2410

Ion Ratio Lower Upper

96 100

61 151.5 0.0 322.8

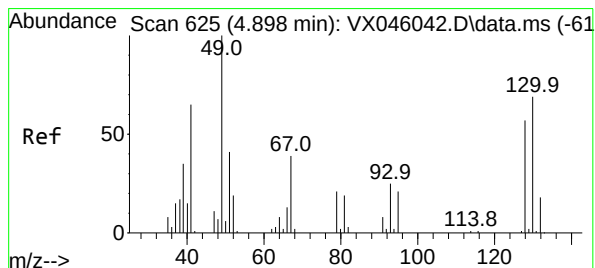
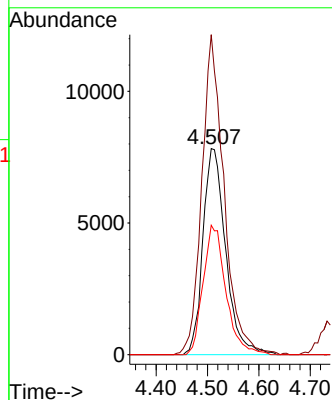
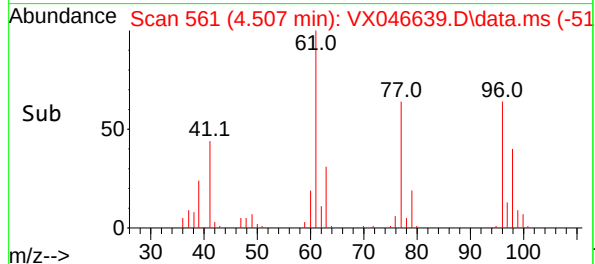
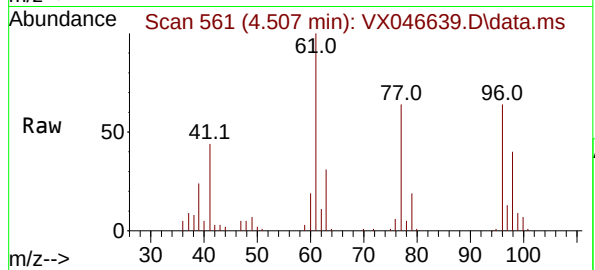
98 62.8 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 20.868 ug/l

RT: 4.916 min Scan# 628

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

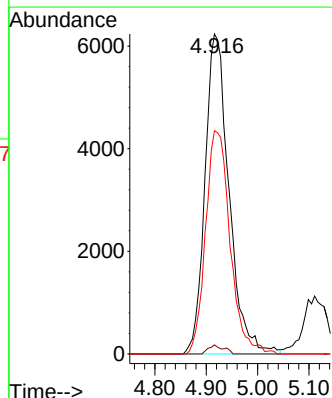
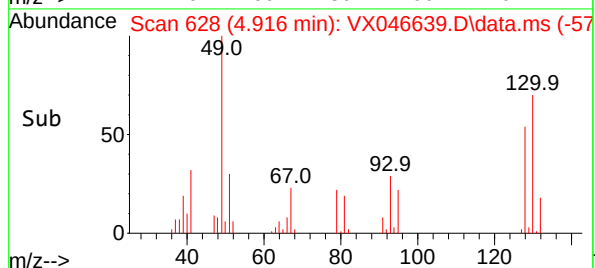
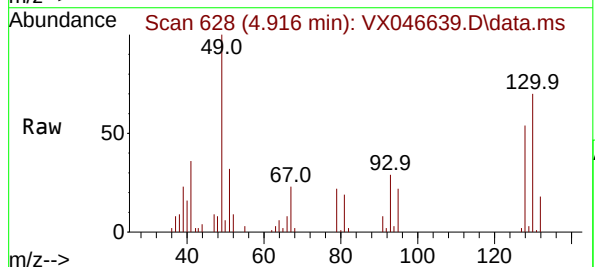
Tgt Ion: 49 Resp: 20247

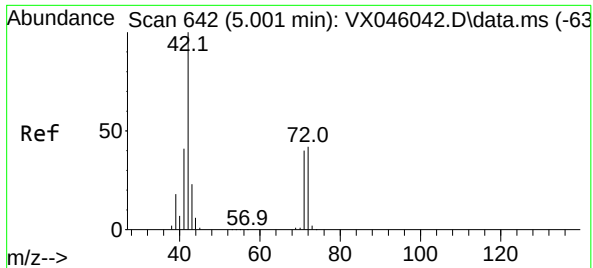
Ion Ratio Lower Upper

49 100

129 1.8 0.0 4.0

130 71.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 94.747 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

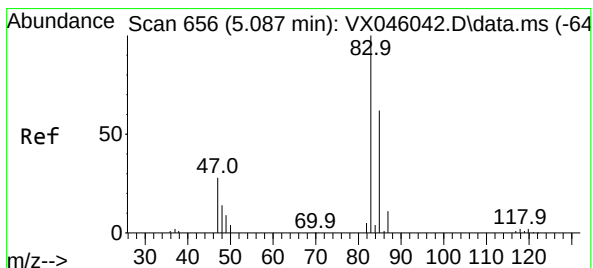
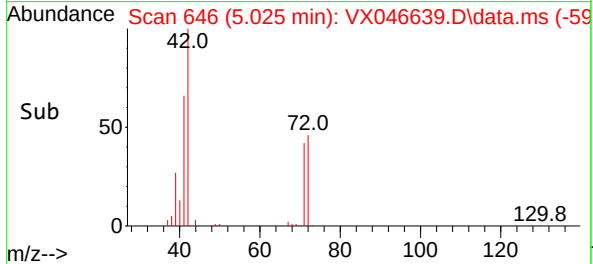
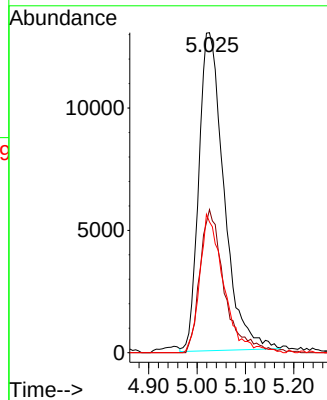
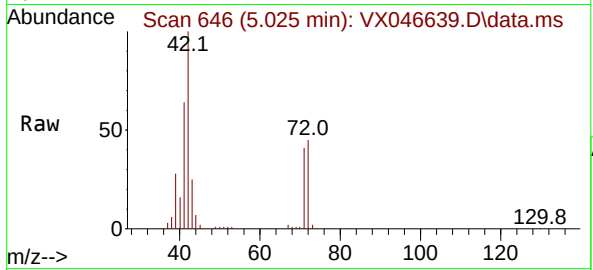
Tgt Ion:	42	Resp:	4705
Ion Ratio	Lower	Upper	
42	100		
72	44.0	33.7	50.5
71	41.5	31.4	47.2

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 19.839 ug/l

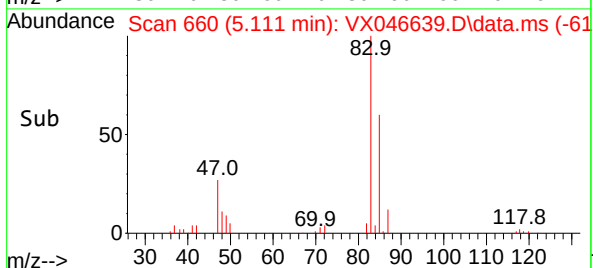
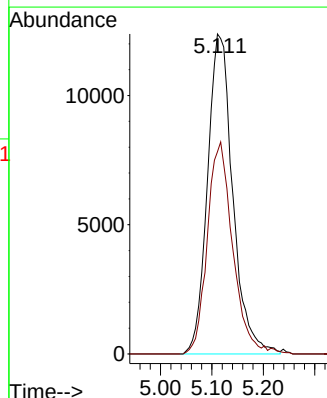
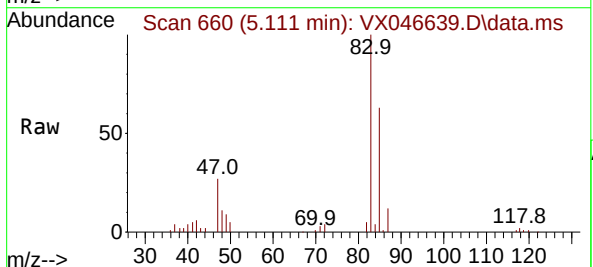
RT: 5.111 min Scan# 660

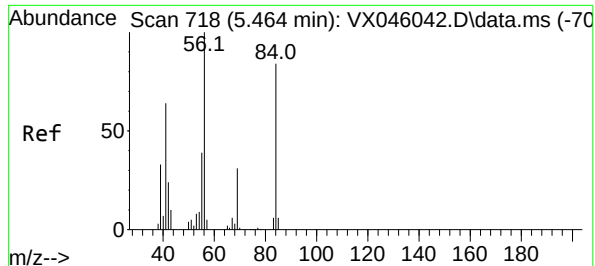
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	83	Resp:	42286
Ion Ratio	Lower	Upper	
83	100		
85	63.2	49.3	73.9





#31

Cyclohexane

Concen: 18.562 ug/l

RT: 5.489 min Scan# 718

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 56 Resp: 3048

Ion Ratio Lower Upper

56 100

69 31.1 24.4 36.6

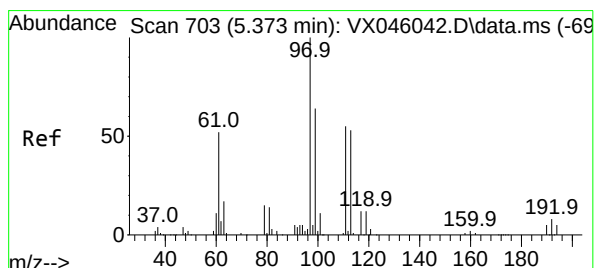
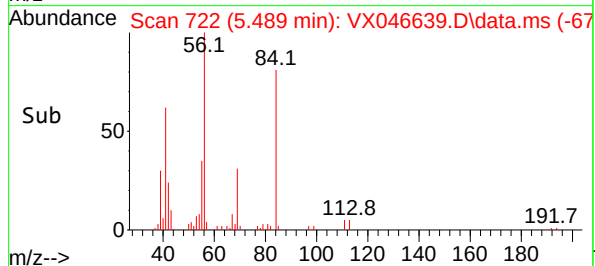
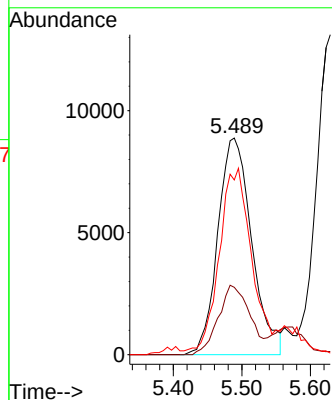
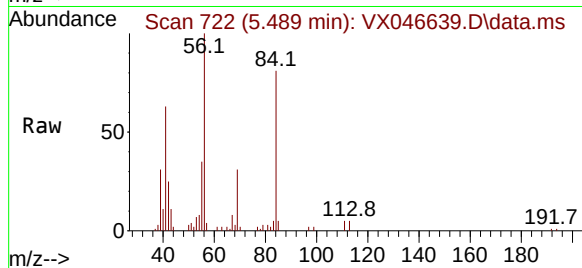
84 78.9 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#32

1,1,1-Trichloroethane

Concen: 19.725 ug/l

RT: 5.403 min Scan# 708

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

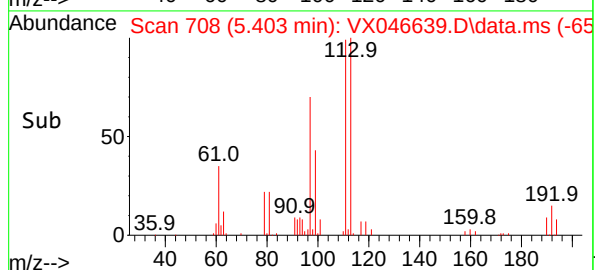
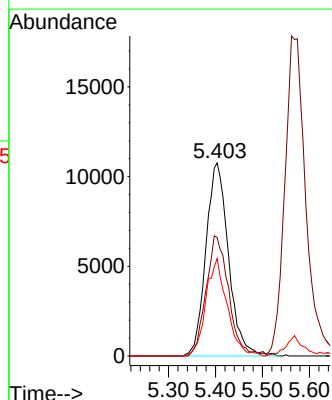
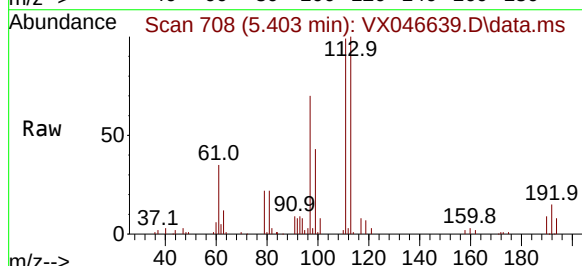
Tgt Ion: 97 Resp: 35963

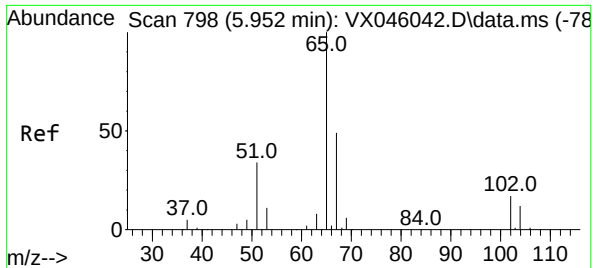
Ion Ratio Lower Upper

97 100

99 61.8 51.8 77.6

61 47.1 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 43.960 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 65 Resp: 6209

Ion Ratio Lower Upper

65 100

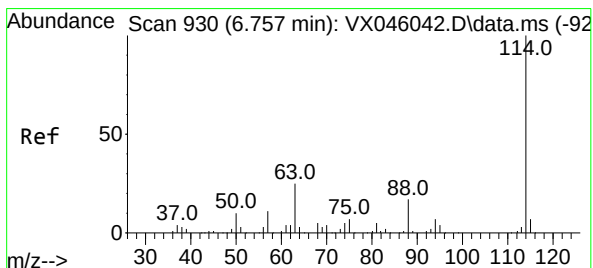
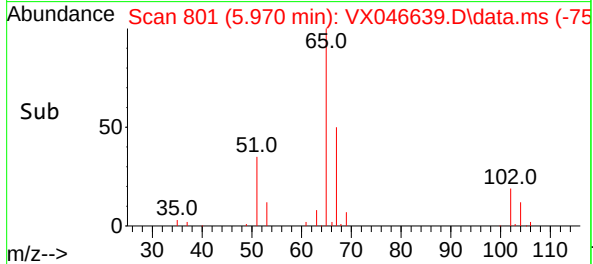
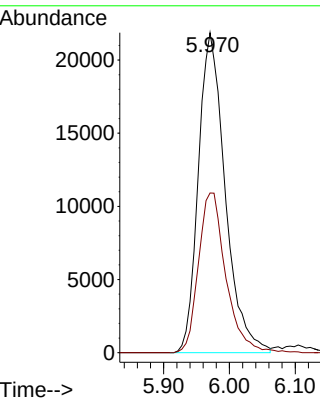
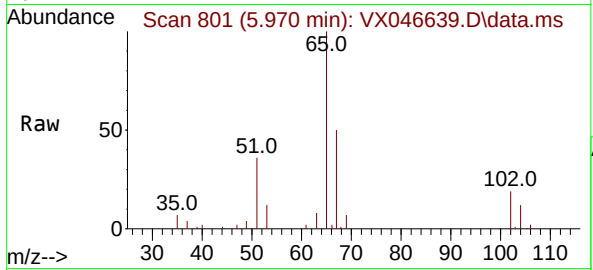
67 51.0 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

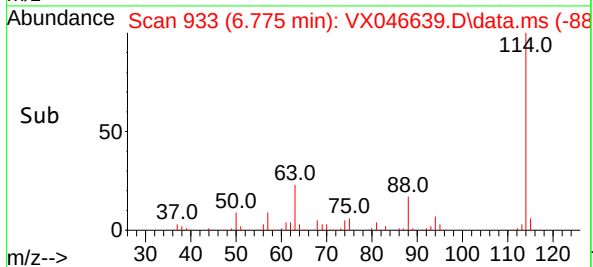
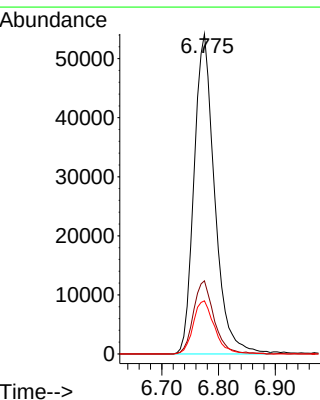
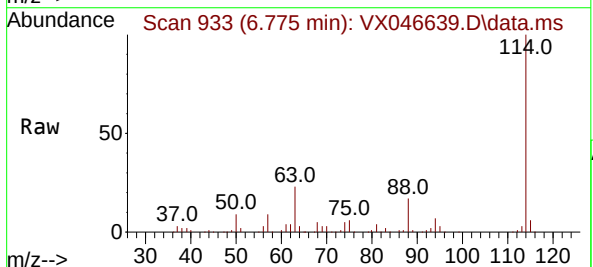
Tgt Ion:114 Resp: 136732

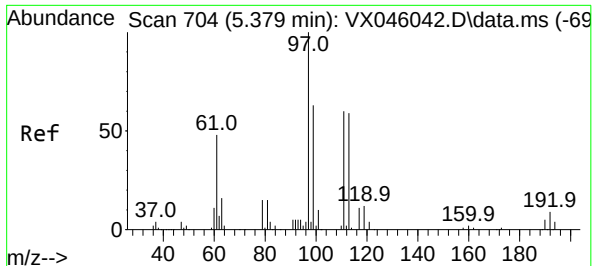
Ion Ratio Lower Upper

114 100

63 22.9 0.0 49.2

88 16.6 0.0 33.6





#35

Dibromofluoromethane

Concen: 47.797 ug/l

RT: 5.403 min Scan# 704

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:113 Resp: 4806

Ion Ratio Lower Upper

113 100

111 102.2 83.1 124.7

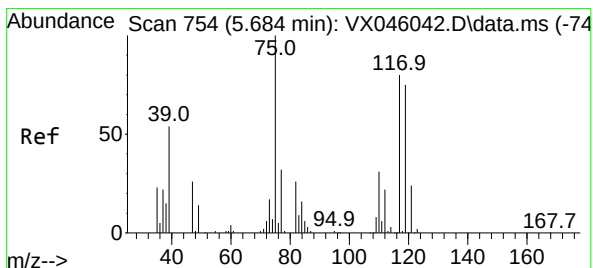
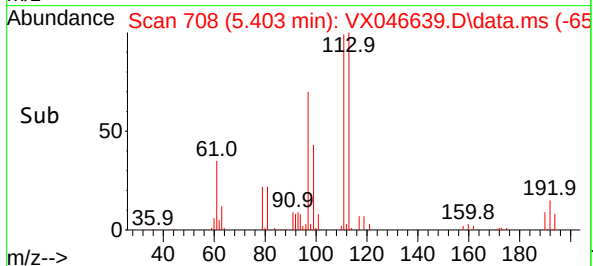
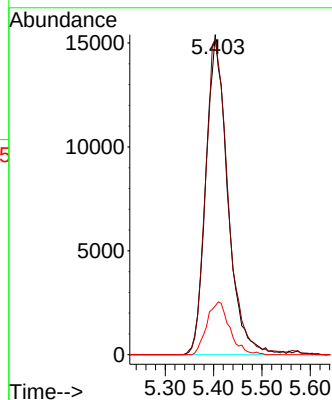
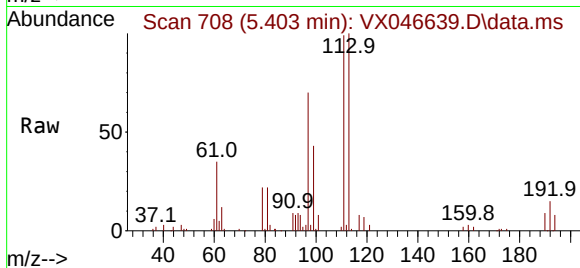
192 17.3 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

Concen: 18.210 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

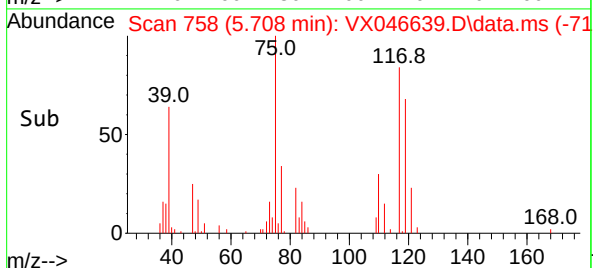
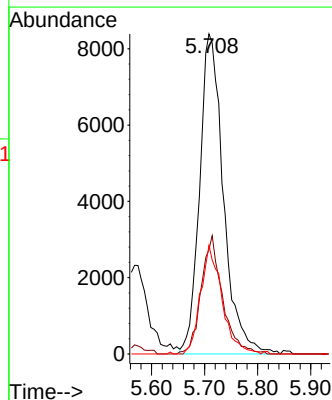
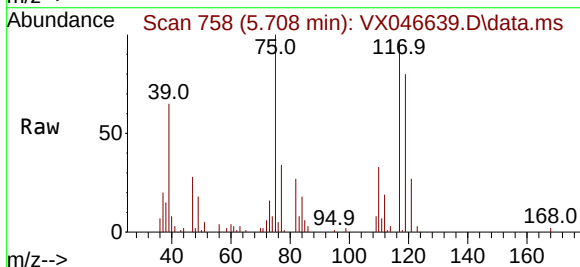
Tgt Ion: 75 Resp: 26155

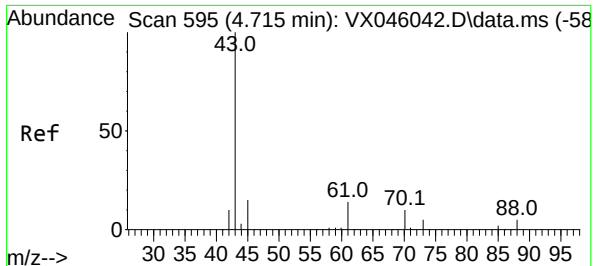
Ion Ratio Lower Upper

75 100

110 33.1 16.3 48.9

77 30.4 24.3 36.5





#37

Ethyl Acetate

Concen: 21.671 ug/l

RT: 4.733 min Scan# 595

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 30379

Ion Ratio Lower Upper

43 100

61 12.5 10.3 15.5

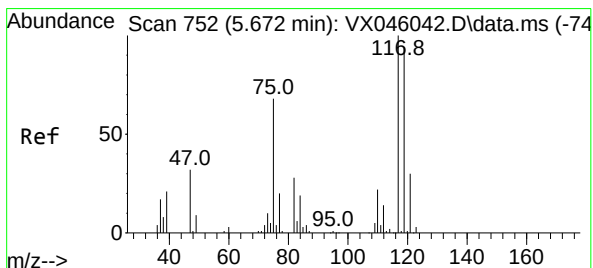
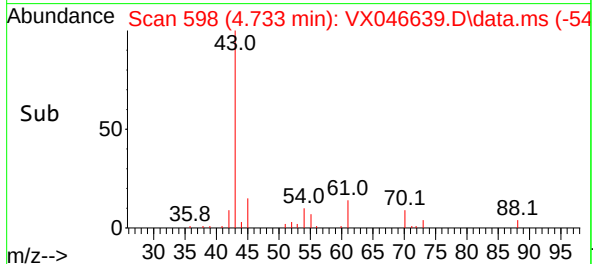
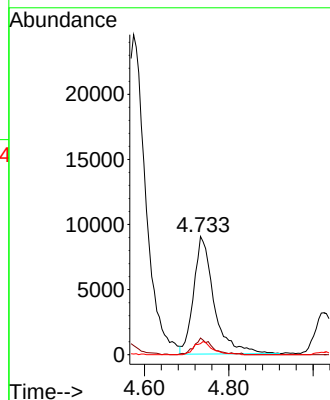
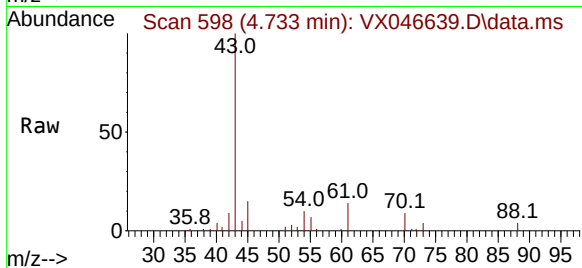
70 9.9 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 18.661 ug/l

RT: 5.696 min Scan# 756

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

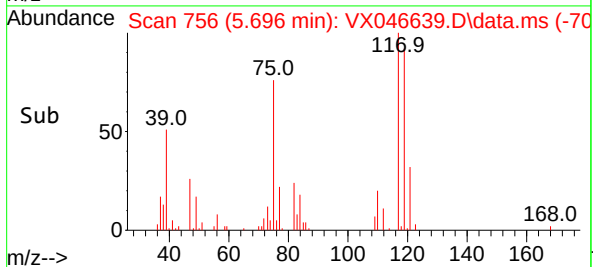
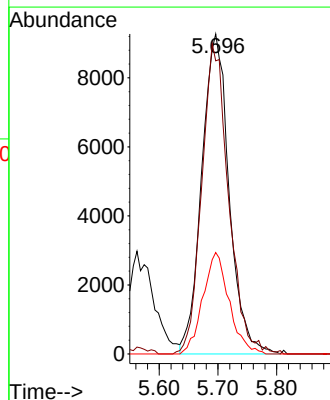
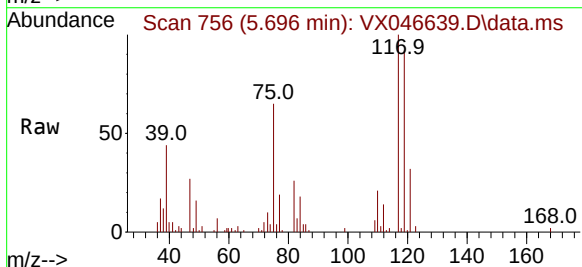
Tgt Ion:117 Resp: 30021

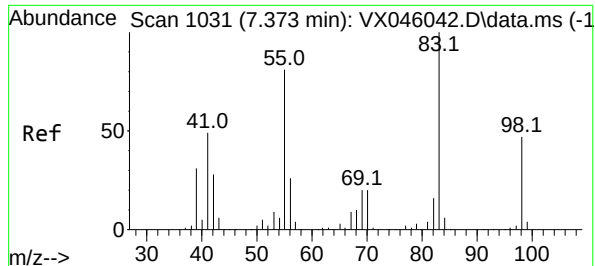
Ion Ratio Lower Upper

117 100

119 90.6 75.2 112.8

121 31.7 24.2 36.4





#39

Methylcyclohexane

Concen: 17.554 ug/l

RT: 7.391 min Scan# 1034

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 83 Resp: 29760

Ion Ratio Lower Upper

83 100

55 88.2 64.7 97.1

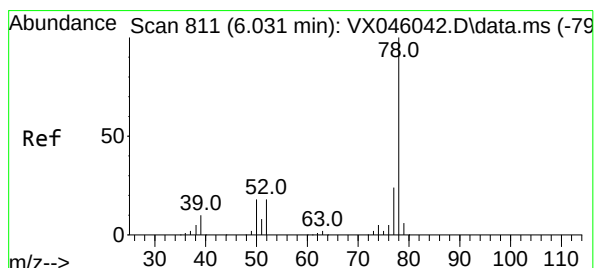
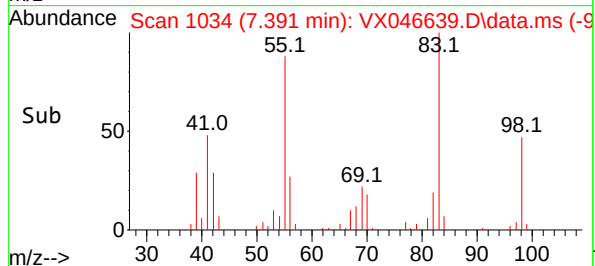
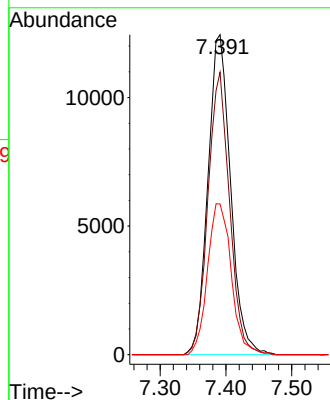
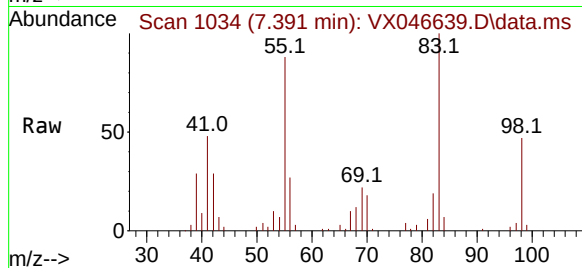
98 47.1 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 19.630 ug/l

RT: 6.056 min Scan# 815

Delta R.T. -0.000 min

Lab File: VX046639.D

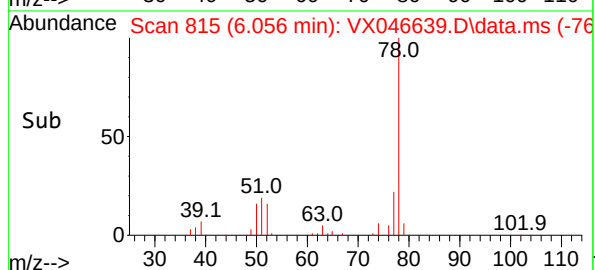
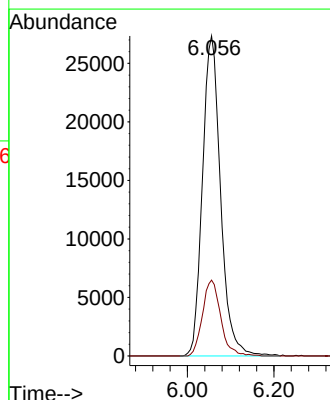
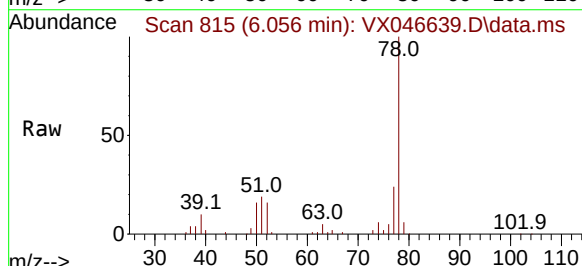
Acq: 11 Jun 2025 15:58

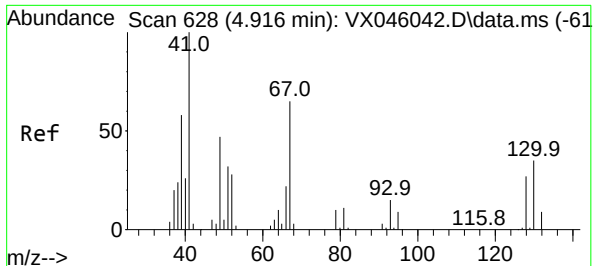
Tgt Ion: 78 Resp: 79373

Ion Ratio Lower Upper

78 100

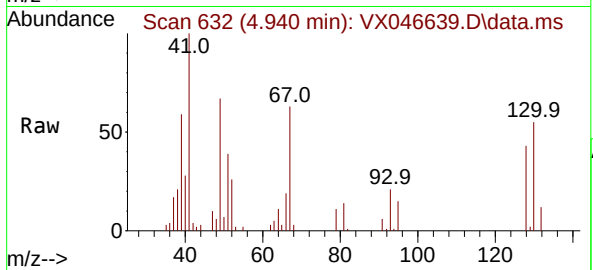
77 23.7 19.0 28.4





#41
Methacrylonitrile
Concen: 18.672 ug/l
RT: 4.940 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

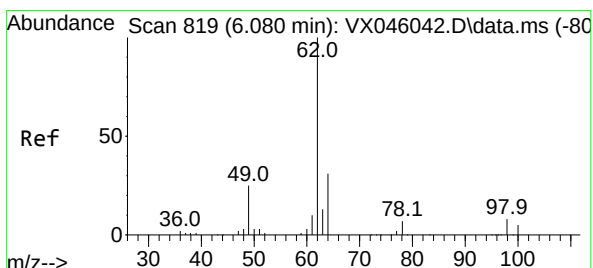
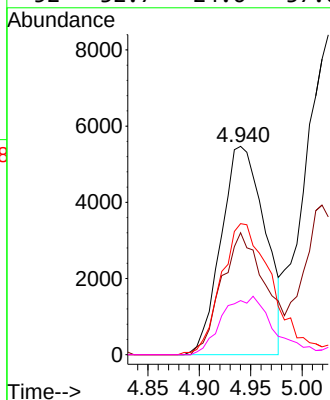
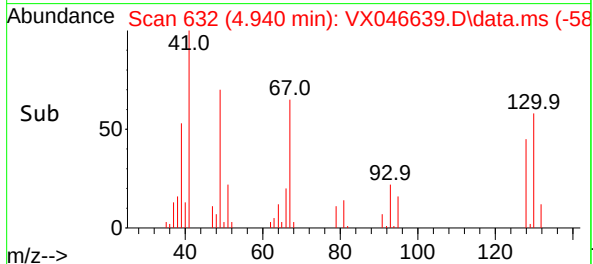
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 41 Resp: 16254
Ion Ratio Lower Upper
41 100
39 59.3 47.2 70.8
67 76.1 50.7 76.1
52 32.7 24.6 37.0

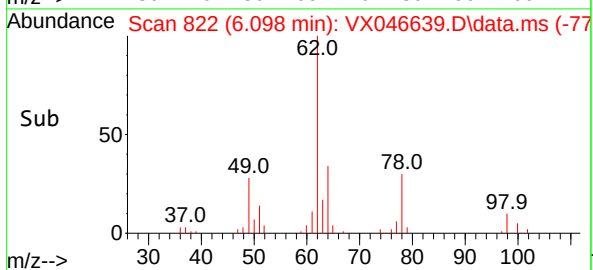
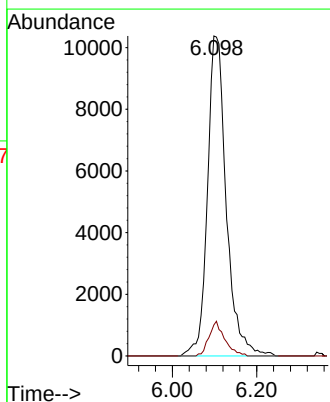
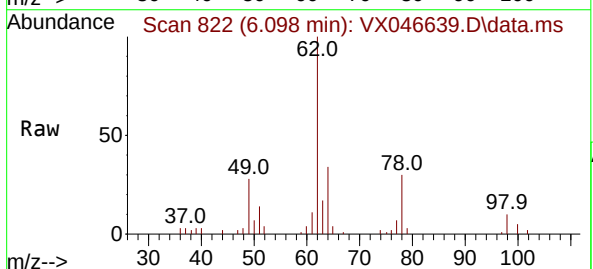
Manual Integrations
APPROVED

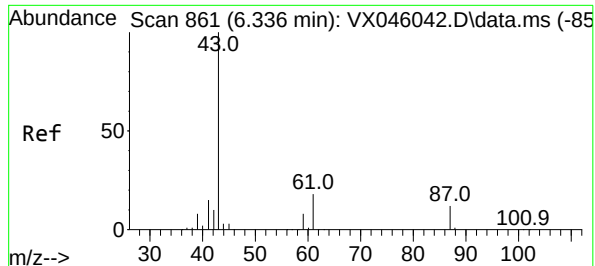
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#42
1,2-Dichloroethane
Concen: 19.112 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 62 Resp: 32150
Ion Ratio Lower Upper
62 100
98 9.1 0.0 15.2





#43

Isopropyl Acetate

Concen: 19.720 ug/l

RT: 6.354 min Scan# 861

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

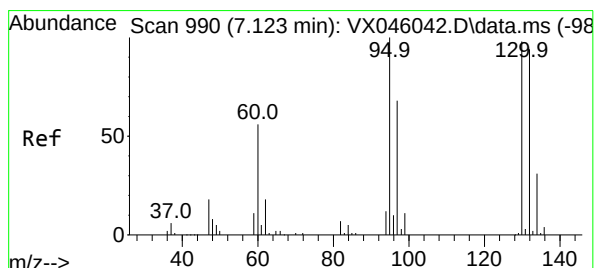
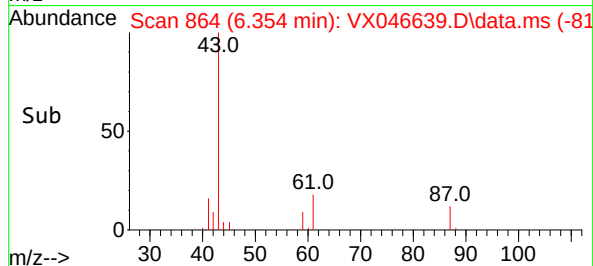
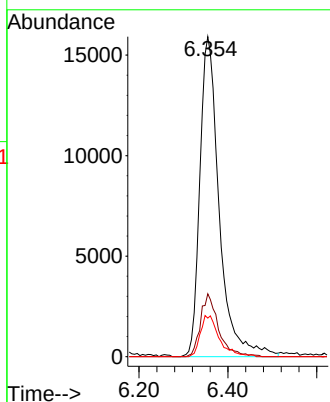
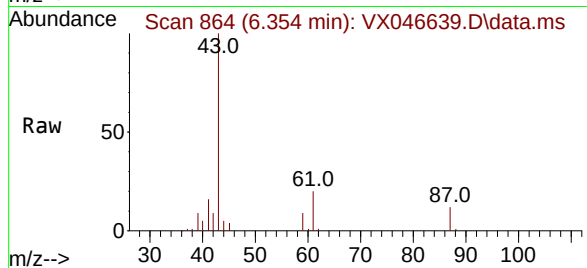
Tgt Ion:	43	Resp:	48194
Ion	Ratio	Lower	Upper
43	100		
61	18.3	14.3	21.5
87	12.6	9.5	14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 19.160 ug/l

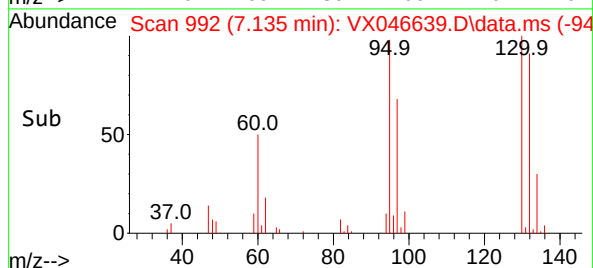
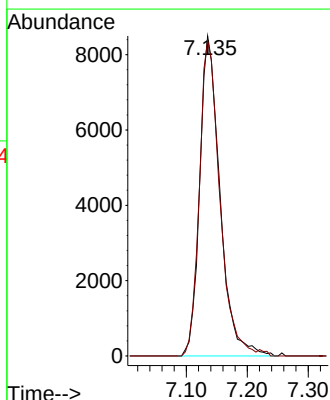
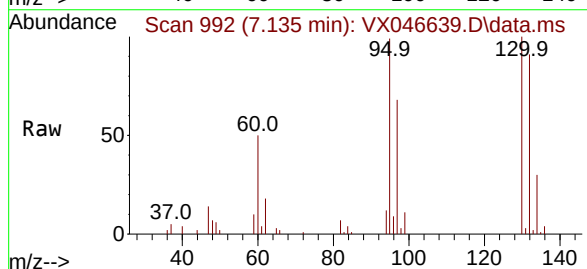
RT: 7.135 min Scan# 992

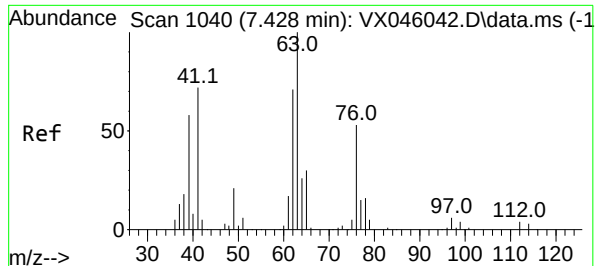
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:	130	Resp:	19685
Ion	Ratio	Lower	Upper
130	100		
95	98.6	0.0	204.2





#45

1,2-Dichloropropane

Concen: 20.731 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 63 Resp: 2163

Ion Ratio Lower Upper

63 100

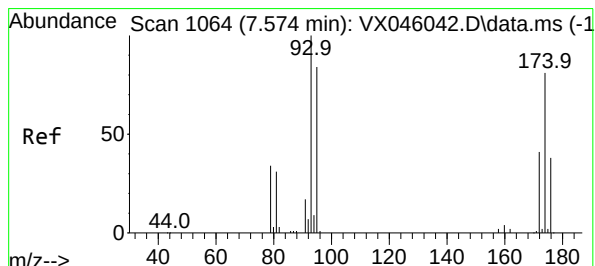
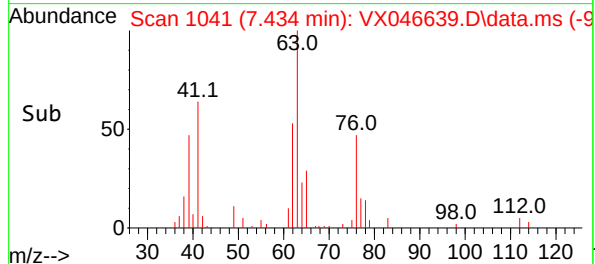
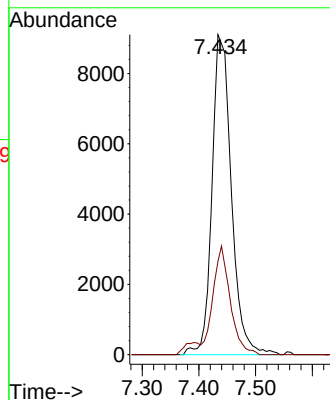
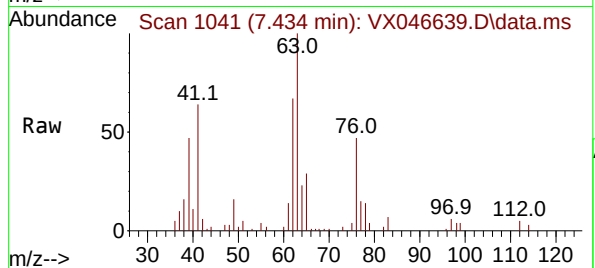
65 29.1 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 19.851 ug/l

RT: 7.592 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

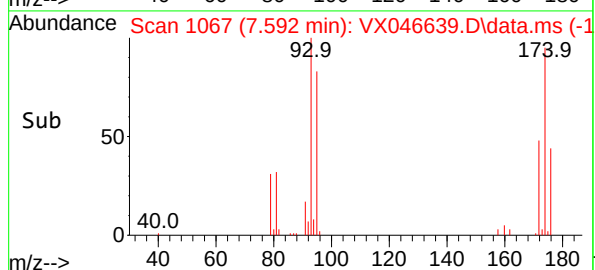
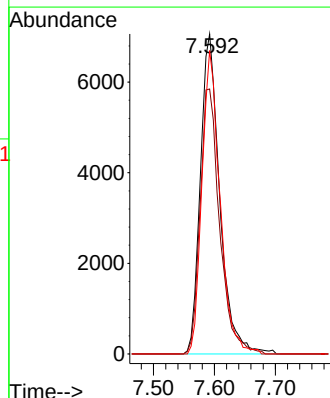
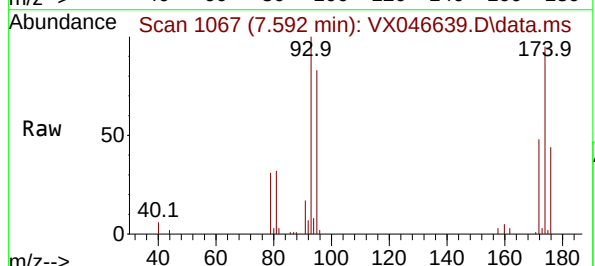
Tgt Ion: 93 Resp: 15586

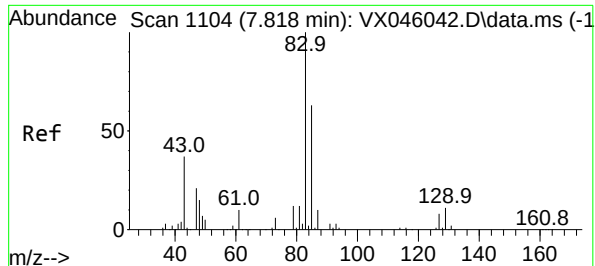
Ion Ratio Lower Upper

93 100

95 83.9 65.6 98.4

174 88.7 68.2 102.2





#47

Bromodichloromethane

Concen: 20.608 ug/l

RT: 7.830 min Scan# 1106

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

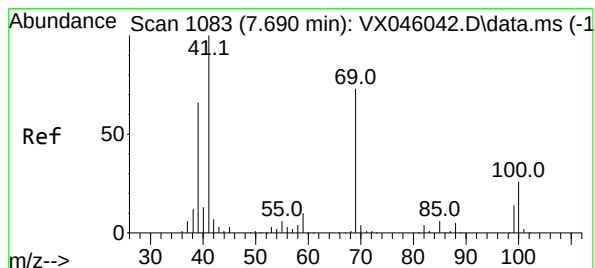
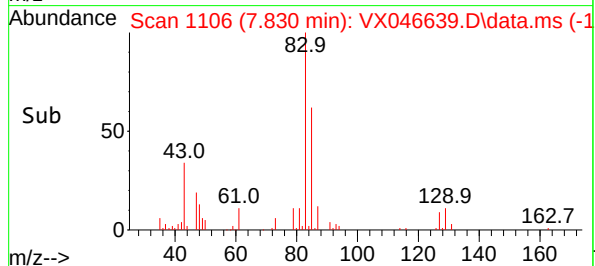
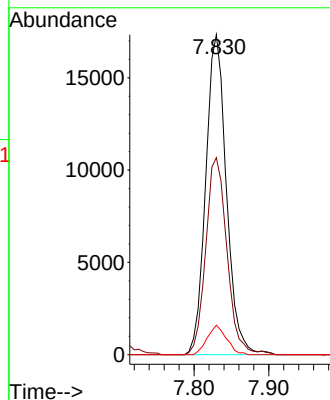
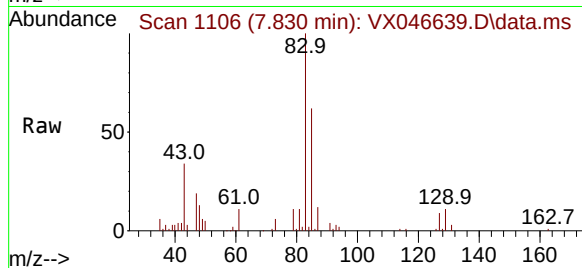
Tgt Ion: 83	Resp: 33270
Ion Ratio	Lower Upper
83 100	
85 61.6	50.5 75.7
127 9.2	6.5 9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 19.765 ug/l

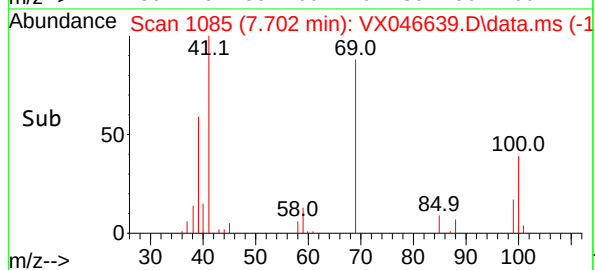
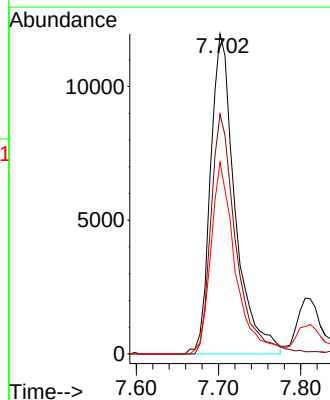
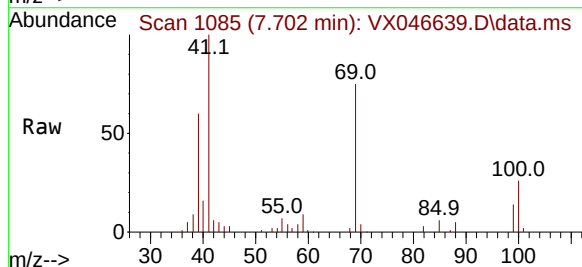
RT: 7.702 min Scan# 1085

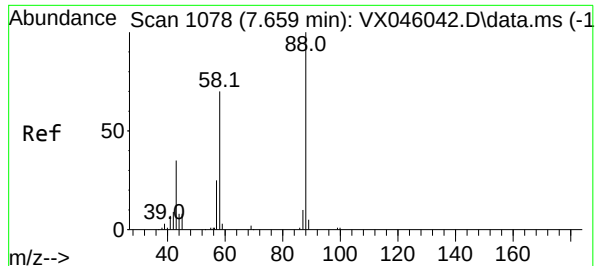
Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion: 41	Resp: 24852
Ion Ratio	Lower Upper
41 100	
69 76.7	58.5 87.7
39 59.6	51.7 77.5





#49

1,4-Dioxane

Concen: 379.544 ug/l

RT: 7.671 min Scan# 1078

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 88 Resp: 638

Ion Ratio Lower Upper

88 100

43 40.8 33.4 50.2

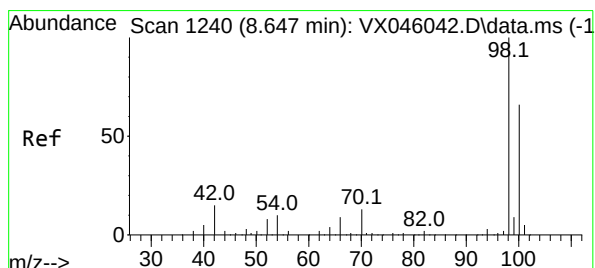
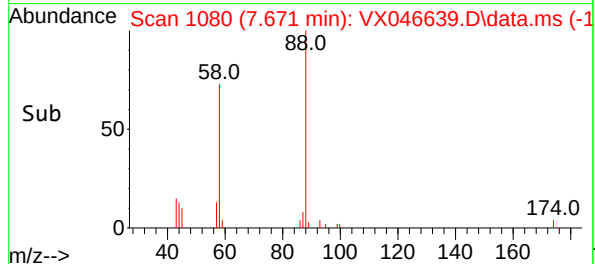
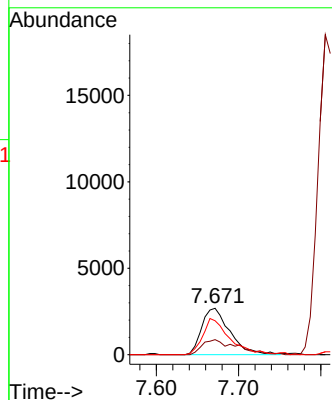
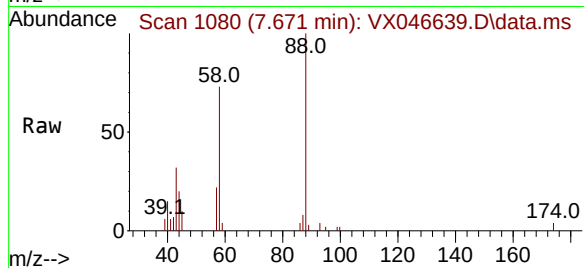
58 73.6 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 47.195 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX046639.D

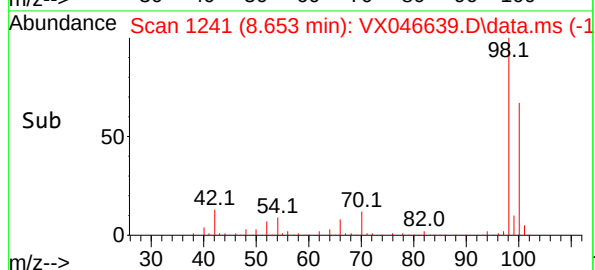
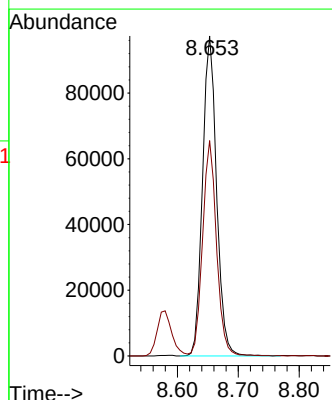
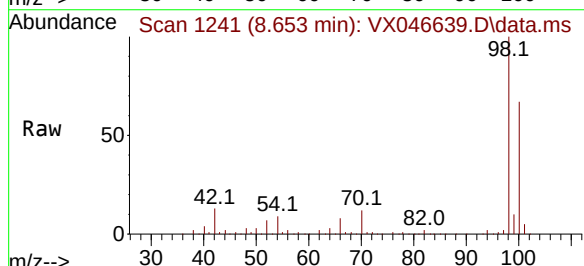
Acq: 11 Jun 2025 15:58

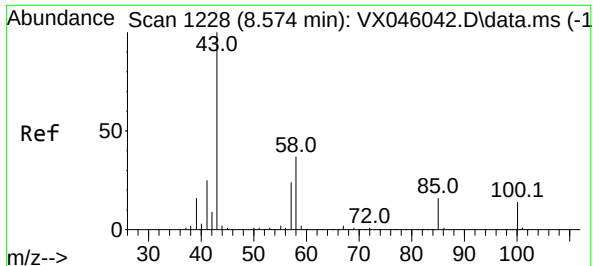
Tgt Ion: 98 Resp: 156454

Ion Ratio Lower Upper

98 100

100 66.7 53.5 80.3





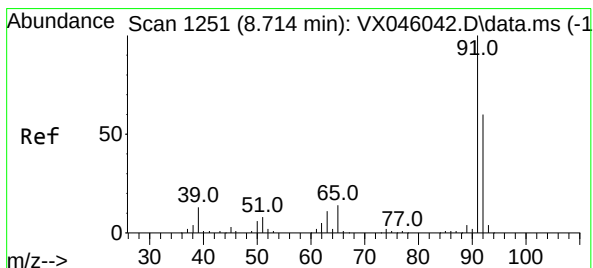
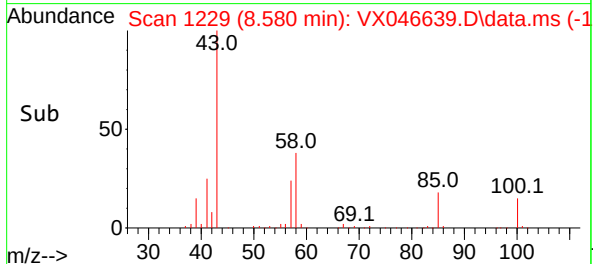
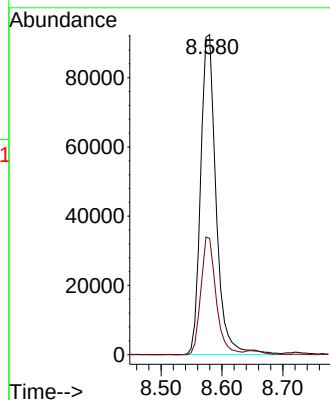
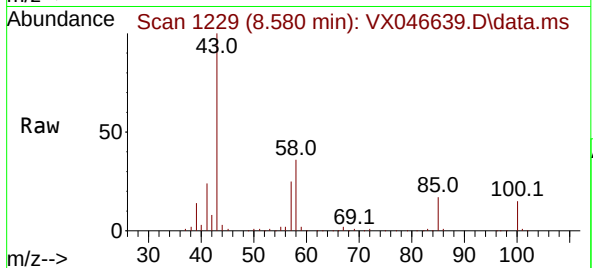
#51
4-Methyl-2-Pentanone
Concen: 105.244 ug/l
RT: 8.580 min Scan# 11
Delta R.T. 0.007 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 43 Resp: 16344
Ion Ratio Lower Upper
43 100
58 36.1 28.9 43.3

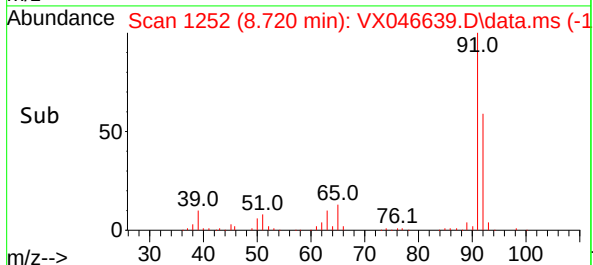
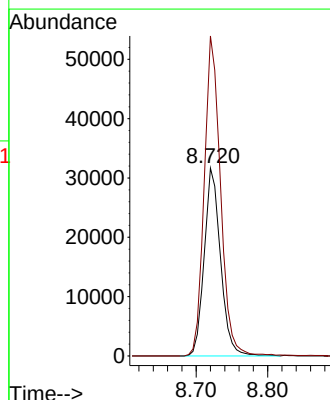
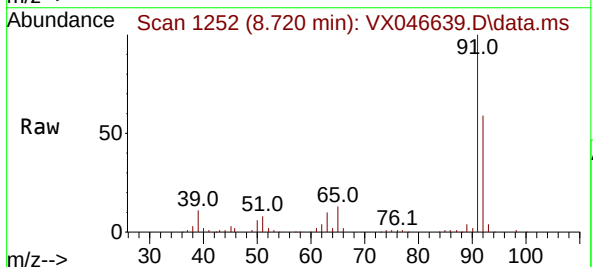
Manual Integrations
APPROVED

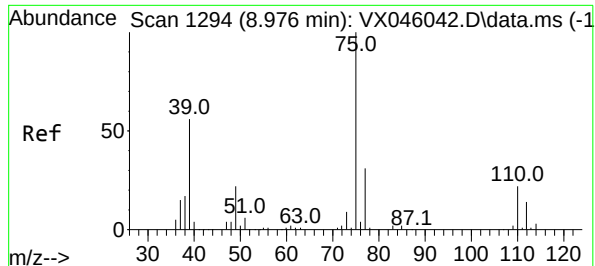
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#52
Toluene
Concen: 20.210 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 92 Resp: 50204
Ion Ratio Lower Upper
92 100
91 170.8 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.980 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 75 Resp: 2892

Ion Ratio Lower Upper

75 100

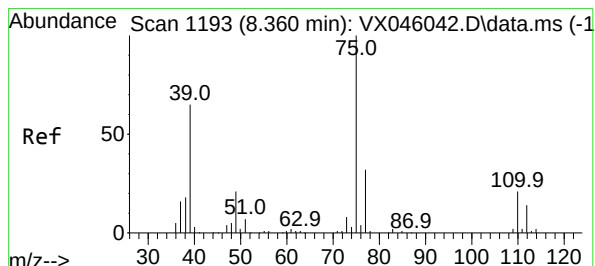
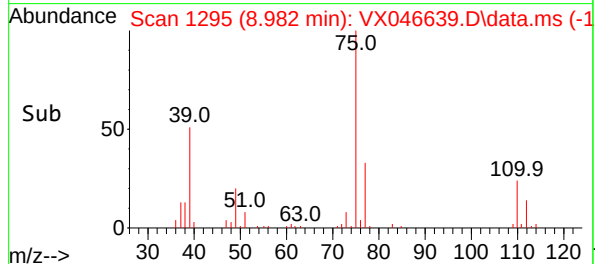
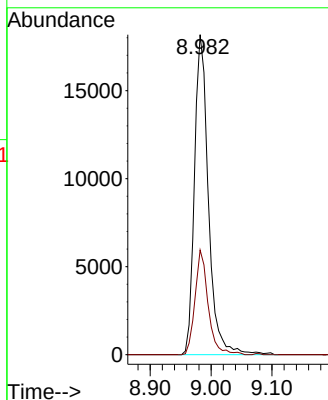
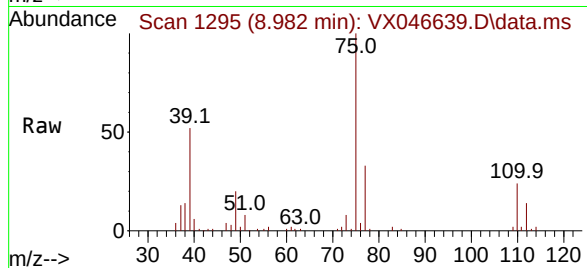
77 32.7 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#54

cis-1,3-Dichloropropene

Concen: 19.887 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

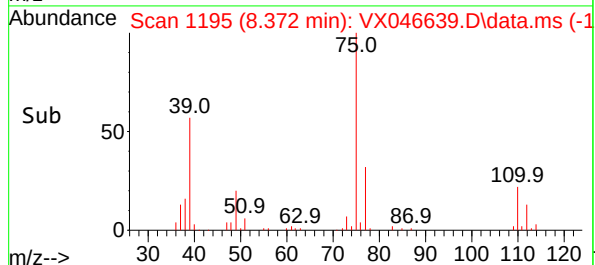
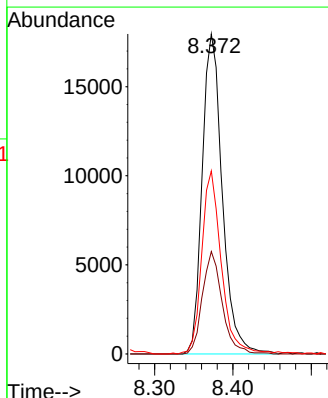
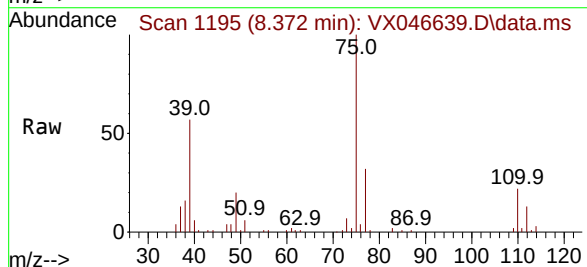
Tgt Ion: 75 Resp: 32006

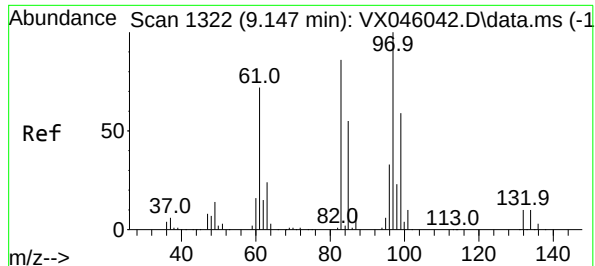
Ion Ratio Lower Upper

75 100

77 32.0 25.4 38.0

39 57.2 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 21.763 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 97 Resp: 2170

Ion Ratio Lower Upper

97 100

83 83.8 69.0 103.6

85 53.5 44.3 66.5

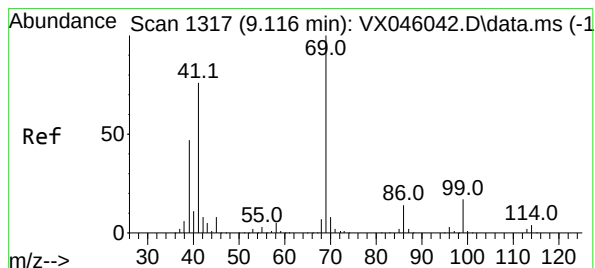
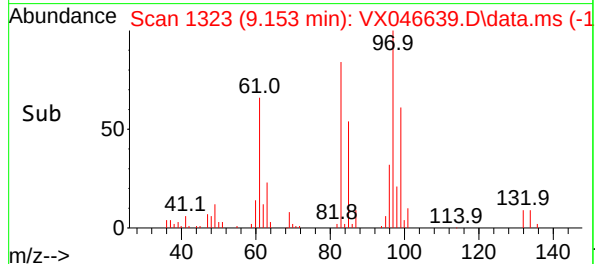
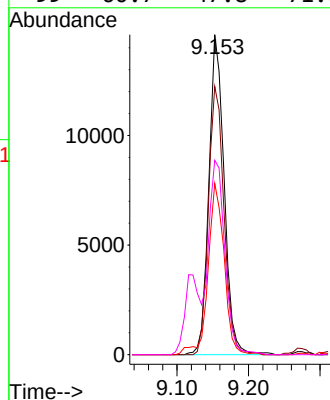
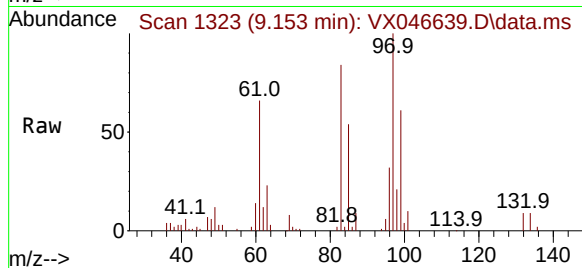
99 60.7 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 20.532 ug/l

RT: 9.122 min Scan# 1318

Delta R.T. 0.006 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

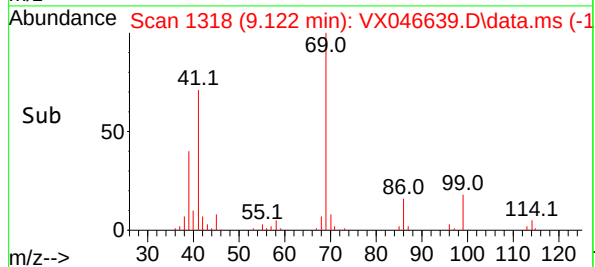
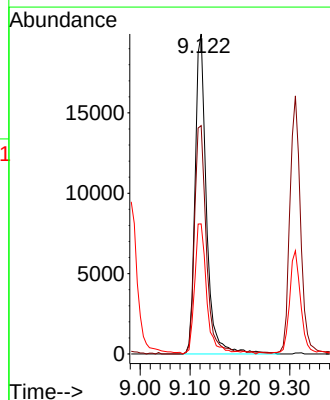
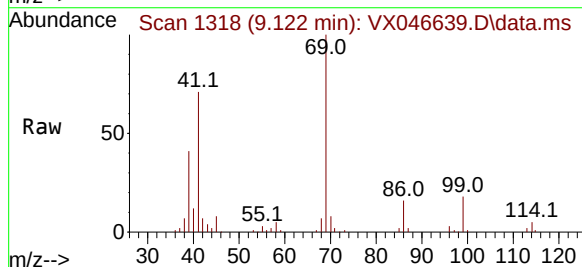
Tgt Ion: 69 Resp: 31509

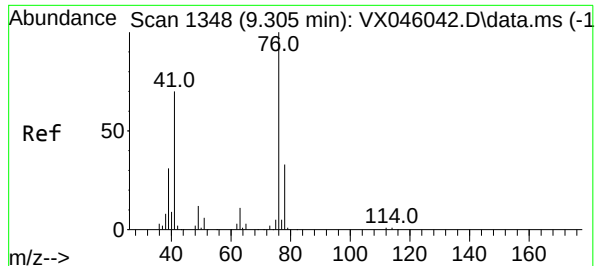
Ion Ratio Lower Upper

69 100

41 75.0 60.8 91.2

39 43.4 39.0 58.6





#57

1,3-Dichloropropane

Concen: 20.418 ug/l

RT: 9.311 min Scan# 11349

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 76 Resp: 3598

Ion Ratio Lower Upper

76 100

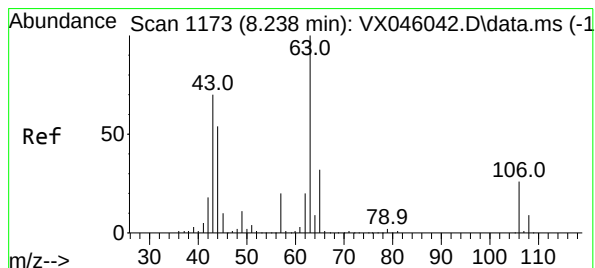
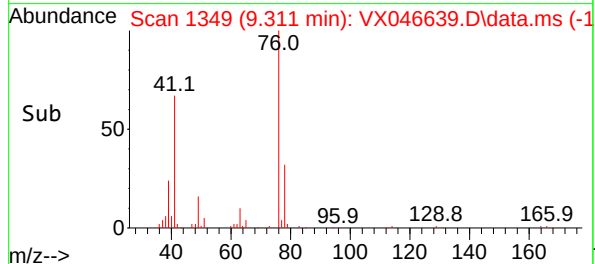
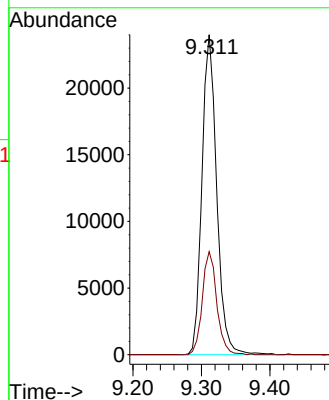
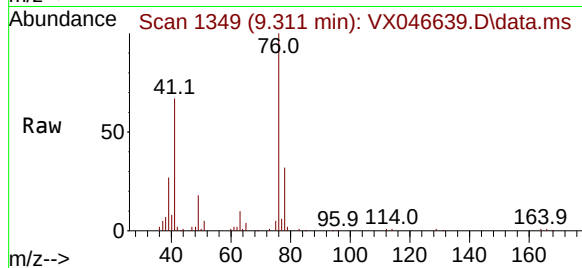
78 31.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#58

2-Chloroethyl Vinyl ether

Concen: 105.474 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046639.D

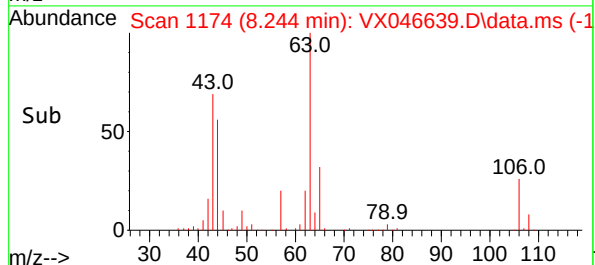
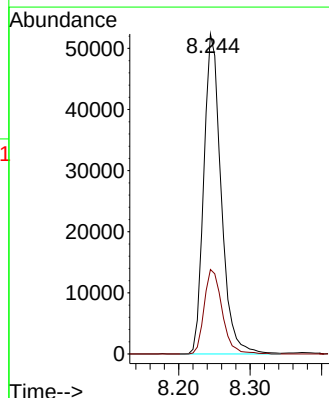
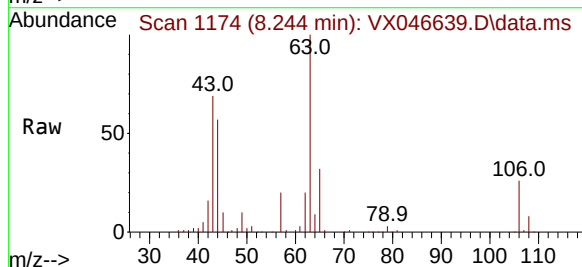
Acq: 11 Jun 2025 15:58

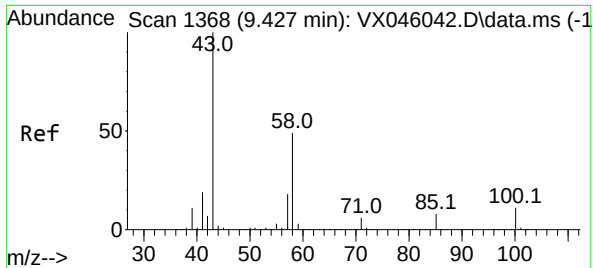
Tgt Ion: 63 Resp: 88166

Ion Ratio Lower Upper

63 100

106 27.3 21.5 32.3





#59

2-Hexanone

Concen: 103.306 ug/l

RT: 9.433 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 43 Resp: 115060

Ion Ratio Lower Upper

43 100

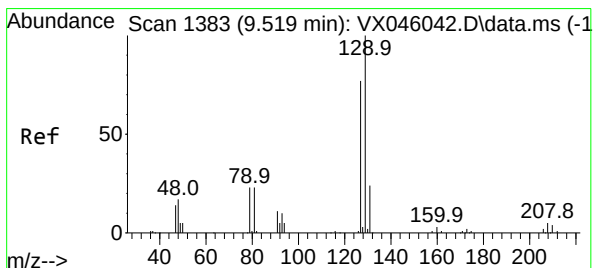
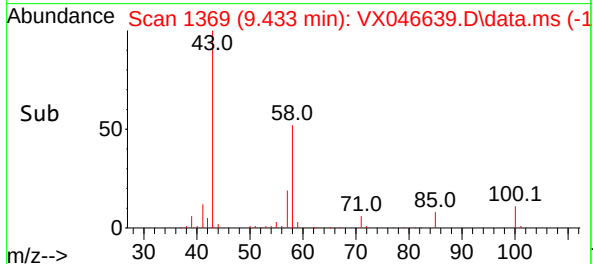
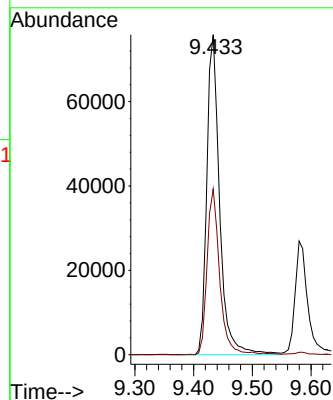
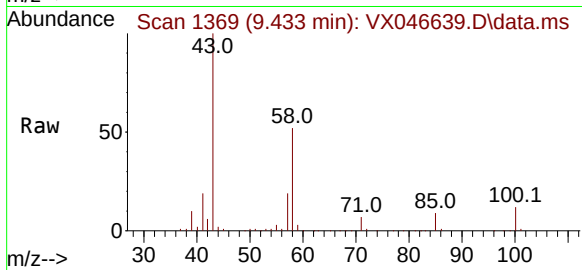
58 51.2 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#60

Dibromochloromethane

Concen: 20.516 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VX046639.D

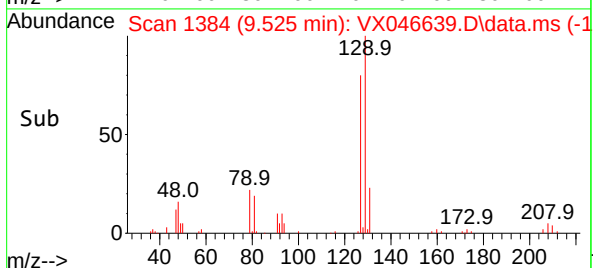
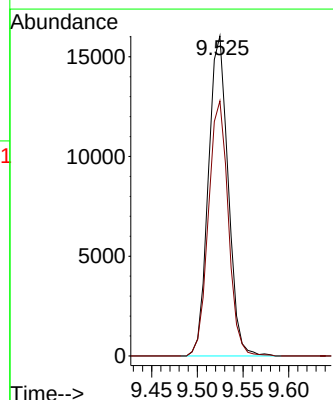
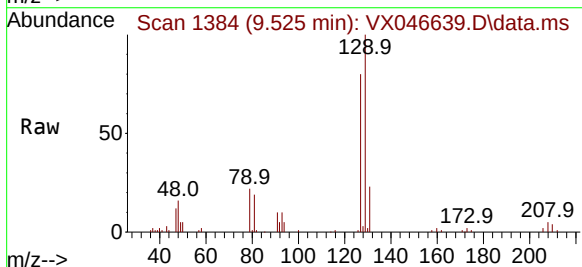
Acq: 11 Jun 2025 15:58

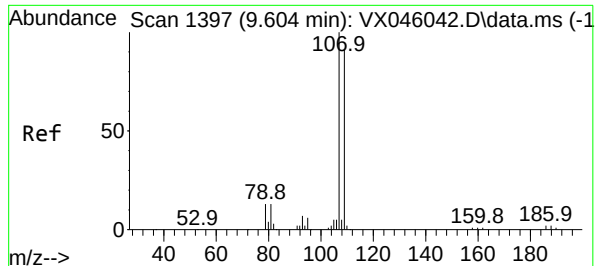
Tgt Ion:129 Resp: 24066

Ion Ratio Lower Upper

129 100

127 80.0 39.3 117.8





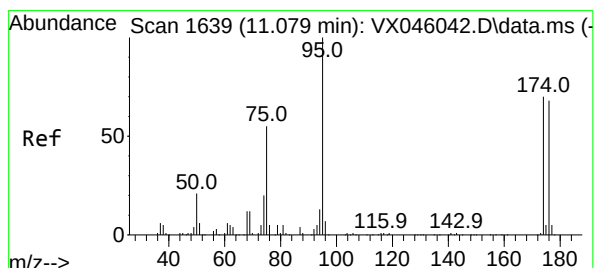
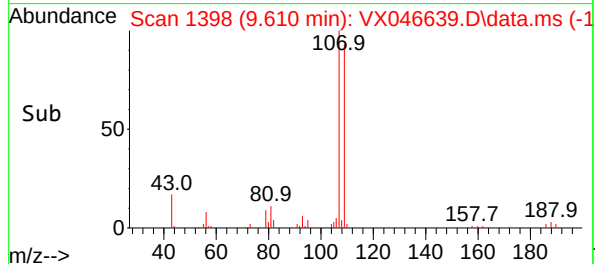
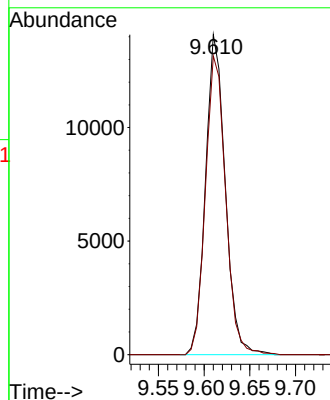
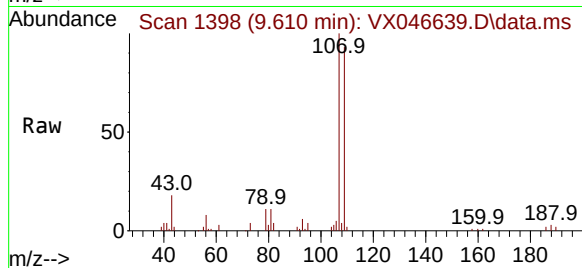
#61
1,2-Dibromoethane
Concen: 20.281 ug/l
RT: 9.610 min Scan# 1397
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:107 Resp: 21070
Ion Ratio Lower Upper
107 100
109 95.6 73.3 109.9

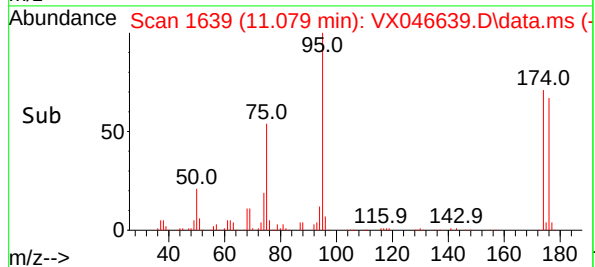
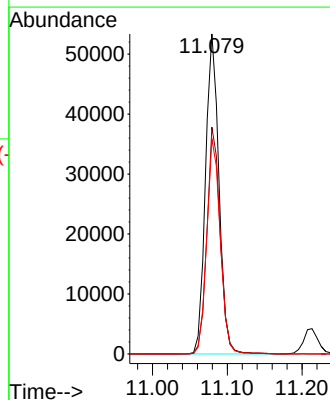
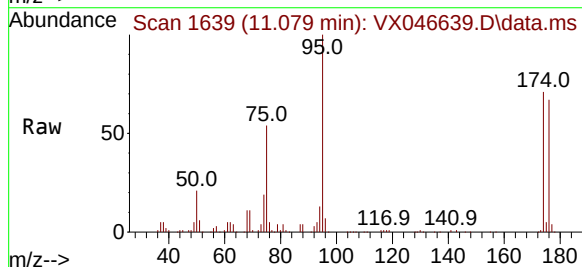
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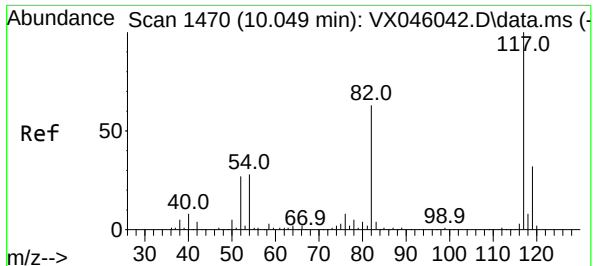
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#62
4-Bromofluorobenzene
Concen: 48.529 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion: 95 Resp: 66562
Ion Ratio Lower Upper
95 100
174 70.0 0.0 135.8
176 67.9 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:117 Resp: 12556

Ion Ratio Lower Upper

117 100

82 59.6 50.6 76.0

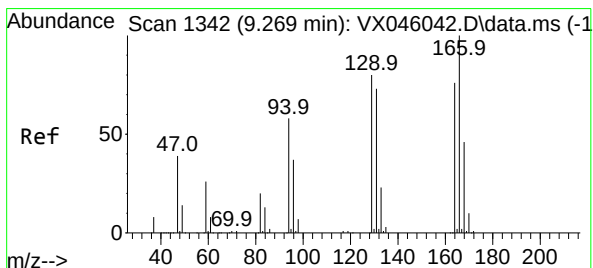
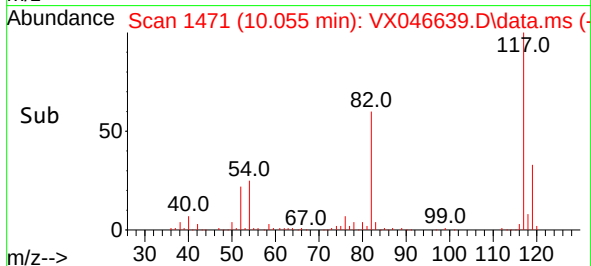
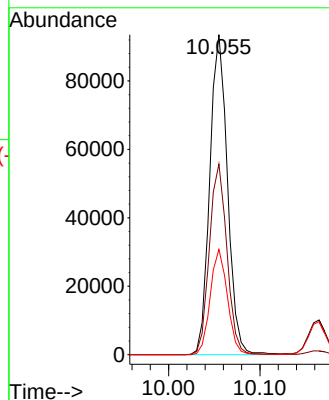
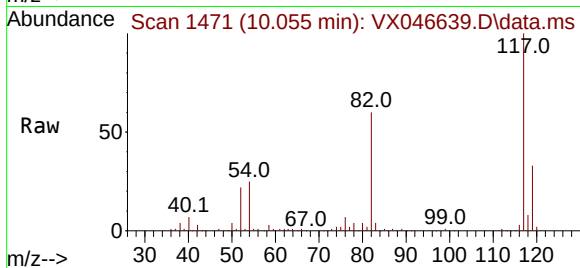
119 32.9 25.8 38.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#64

Tetrachloroethene

Concen: 18.025 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion:164 Resp: 15135

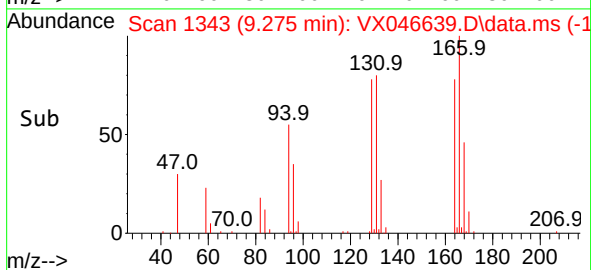
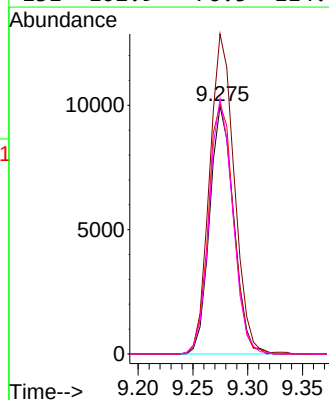
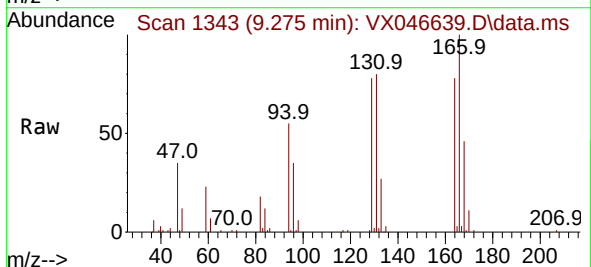
Ion Ratio Lower Upper

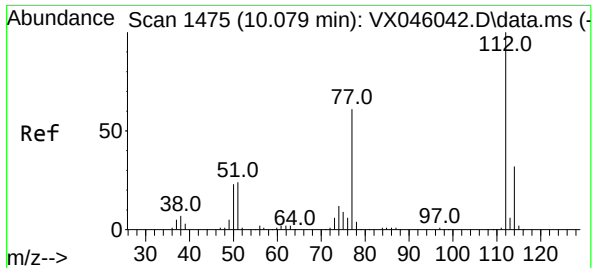
164 100

166 129.0 105.0 157.6

129 100.6 83.5 125.3

131 102.9 76.5 114.7





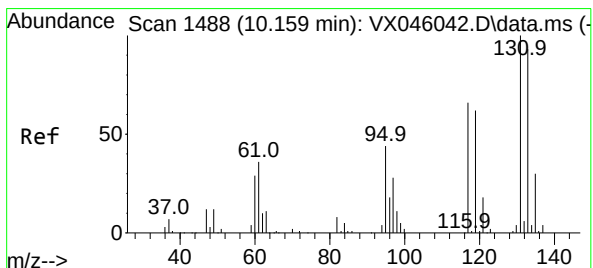
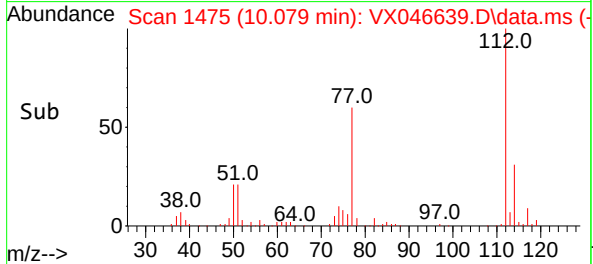
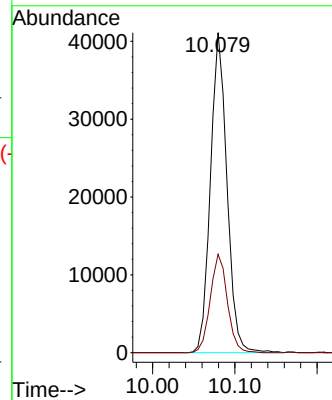
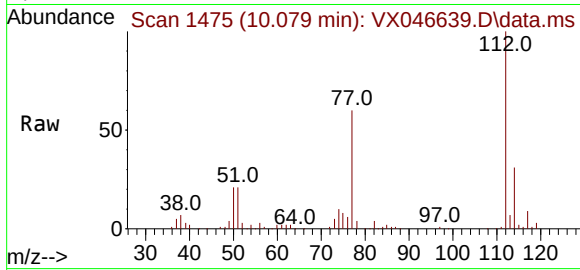
#65
Chlorobenzene
Concen: 19.415 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:112 Resp: 5733
Ion Ratio Lower Upper
112 100
114 30.7 25.4 38.2

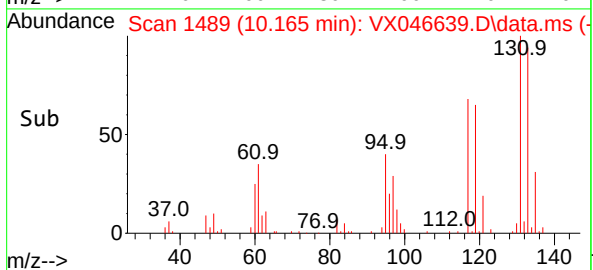
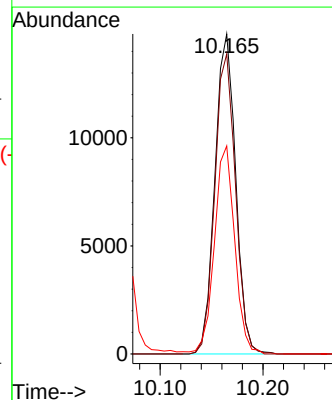
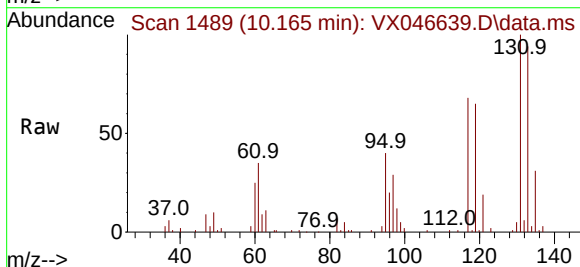
Manual Integrations
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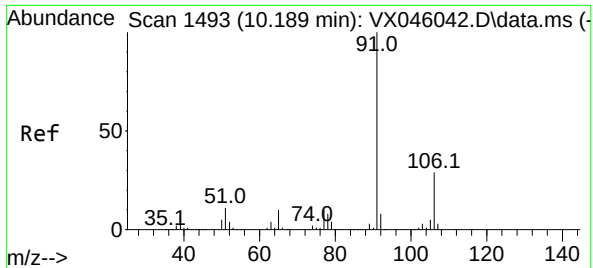
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.772 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:131 Resp: 20729
Ion Ratio Lower Upper
131 100
133 93.8 47.3 141.9
119 63.7 31.6 95.0





#67

Ethyl Benzene

Concen: 19.208 ug/l

RT: 10.195 min Scan# 1493

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 91 Resp: 99024

Ion Ratio Lower Upper

91 100

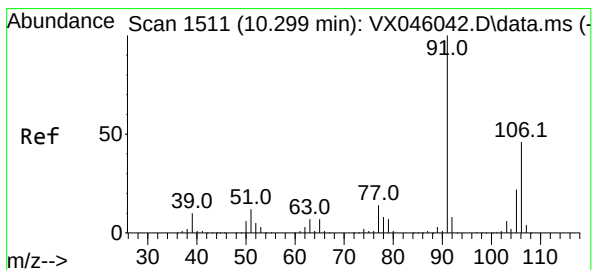
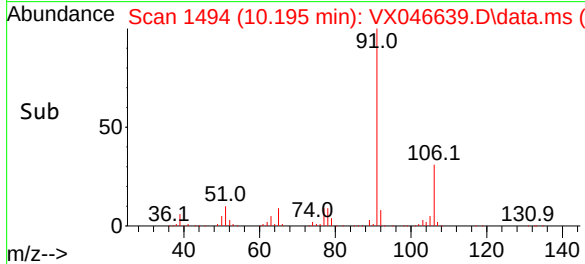
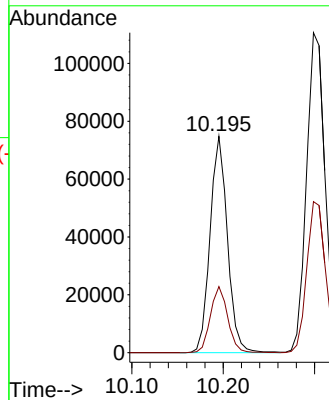
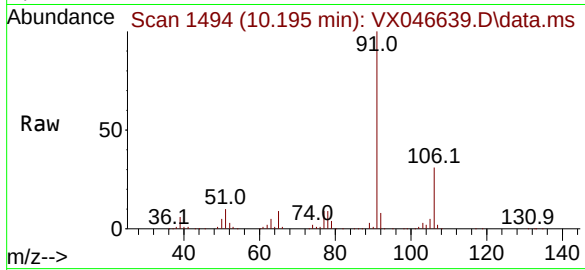
106 30.5 23.4 35.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#68

m/p-Xylenes

Concen: 40.080 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. -0.000 min

Lab File: VX046639.D

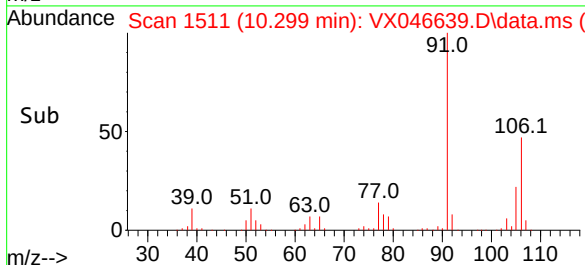
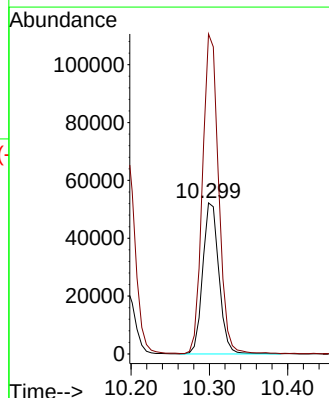
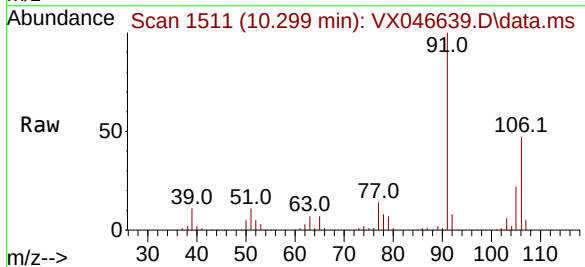
Acq: 11 Jun 2025 15:58

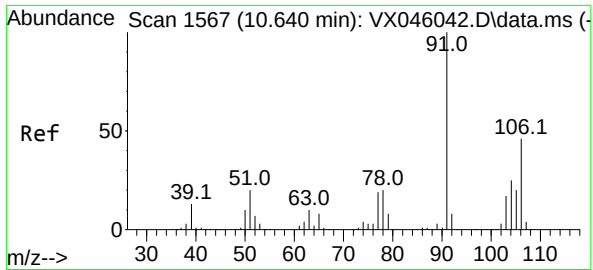
Tgt Ion:106 Resp: 74956

Ion Ratio Lower Upper

106 100

91 210.1 171.2 256.8





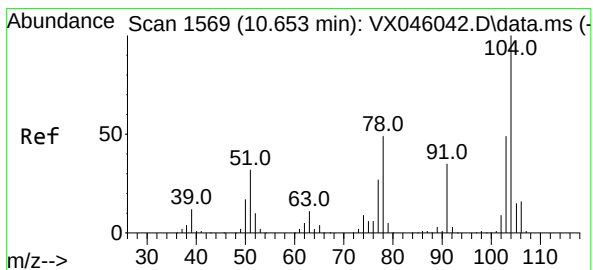
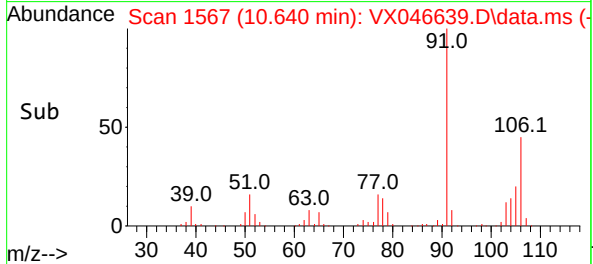
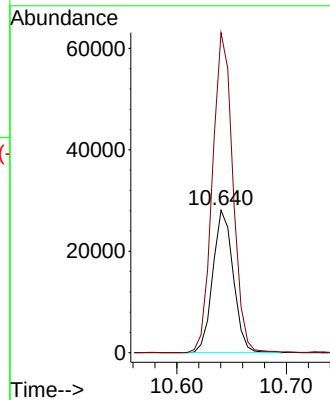
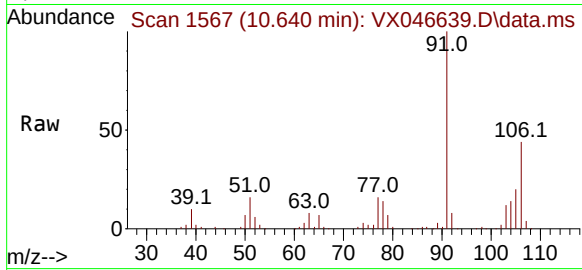
#69
o-Xylene
Concen: 20.130 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion:106 Resp: 3641
Ion Ratio Lower Upper
106 100
91 225.1 112.7 338.1

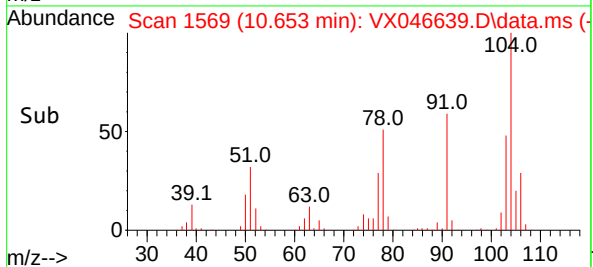
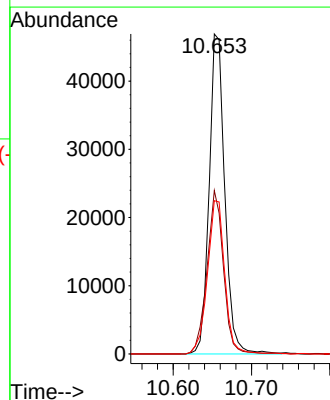
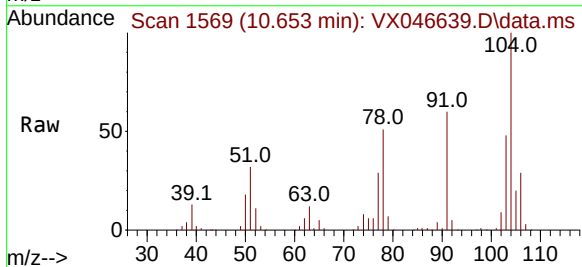
Manual Integrations
APPROVED

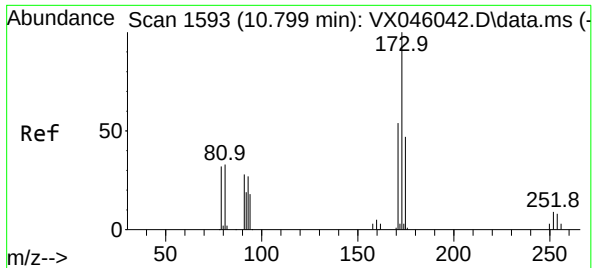
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#70
Styrene
Concen: 20.944 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. -0.005 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

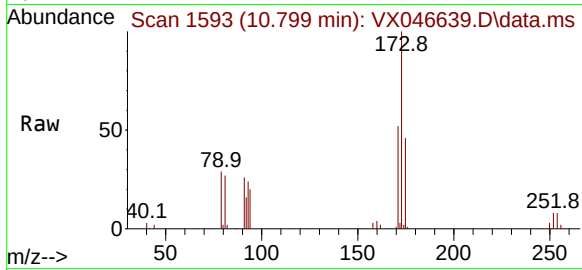
Tgt Ion:104 Resp: 64851
Ion Ratio Lower Upper
104 100
78 53.8 45.7 68.5
103 52.9 43.7 65.5





#71
Bromoform
Concen: 20.783 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

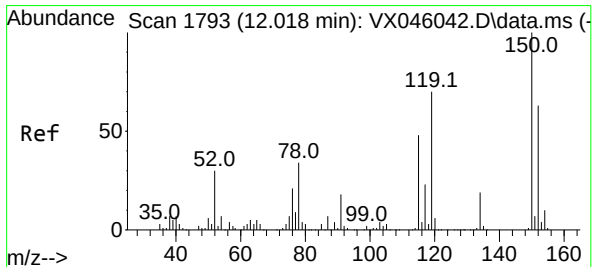
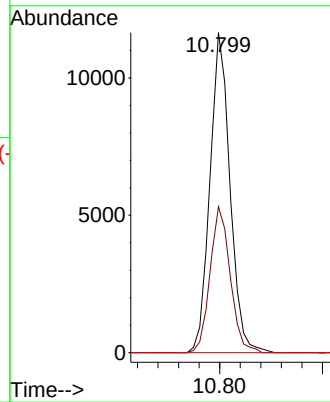
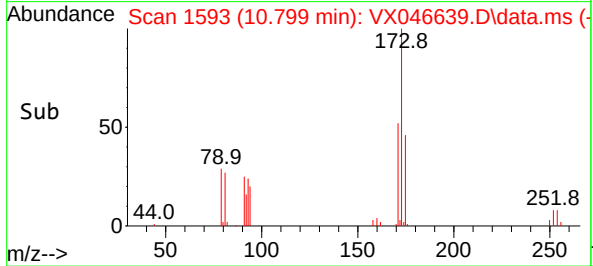
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion:173 Resp: 15814
Ion Ratio Lower Upper
173 100
175 45.9 23.4 70.0
254 0.0 0.0 0.0

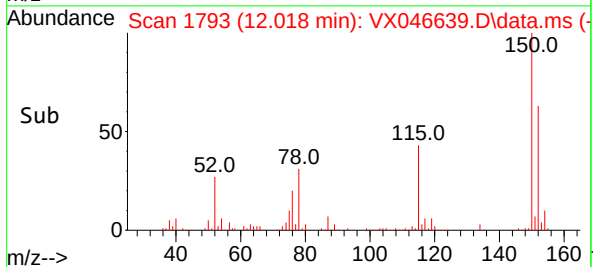
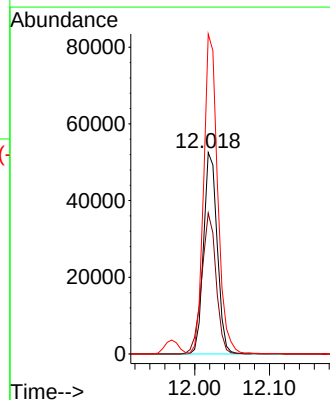
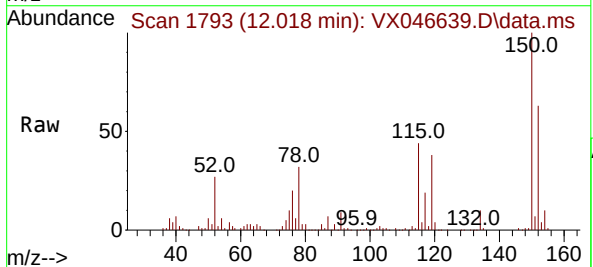
Manual Integrations
APPROVED

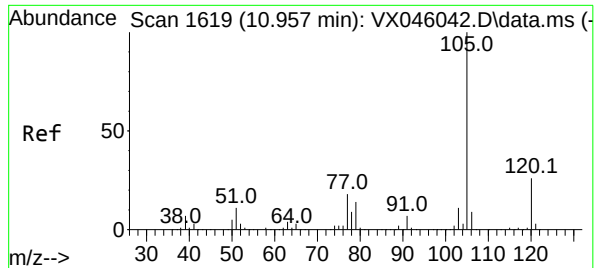
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:152 Resp: 66542
Ion Ratio Lower Upper
152 100
115 73.6 46.9 140.7
150 162.6 0.0 351.0





#73

Isopropylbenzene

Concen: 19.062 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:105 Resp: 99709

Ion Ratio Lower Upper

105 100

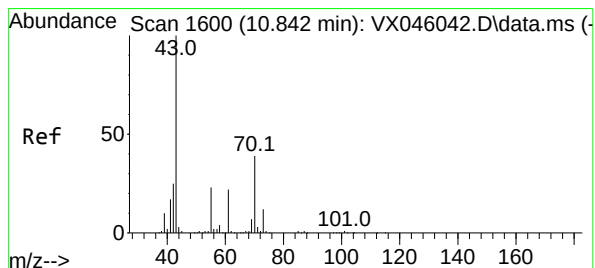
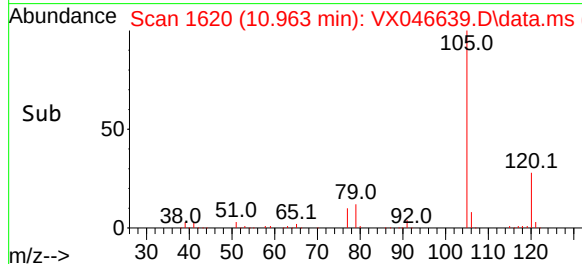
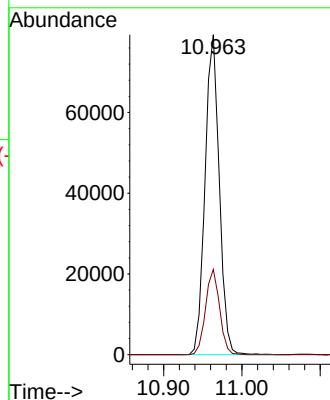
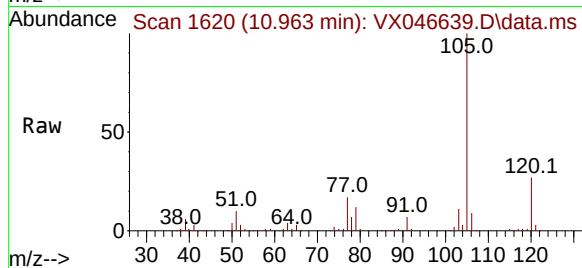
120 26.2 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#74

N-ethyl acetate

Concen: 18.198 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Tgt Ion: 43 Resp: 41919

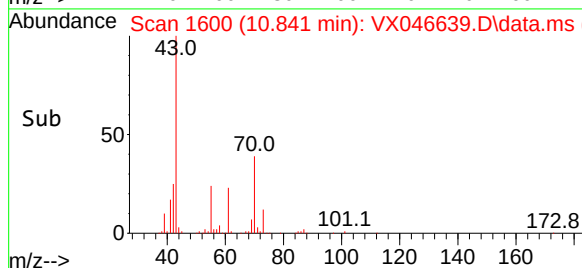
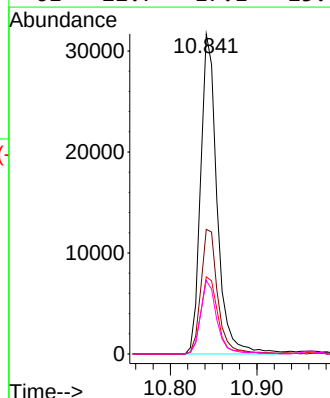
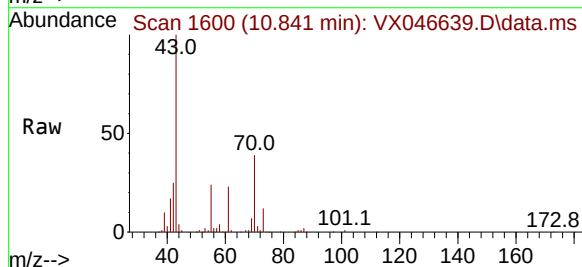
Ion Ratio Lower Upper

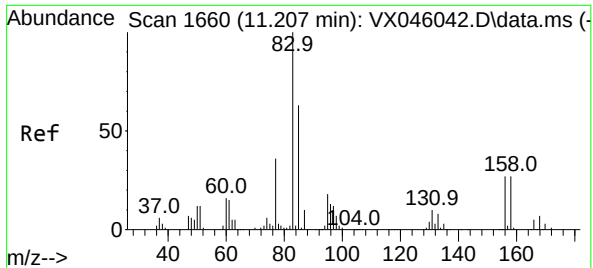
43 100

70 39.8 30.9 46.3

55 25.1 18.7 28.1

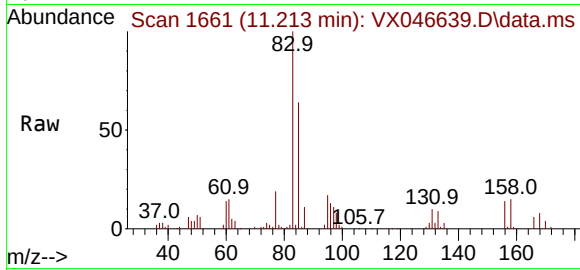
61 22.7 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 19.758 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

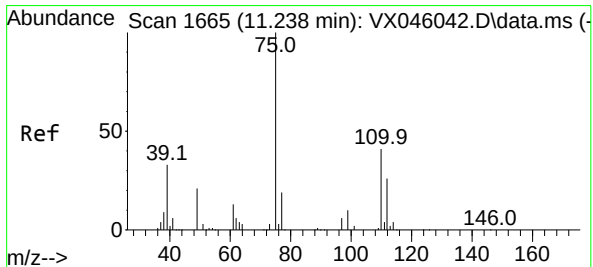
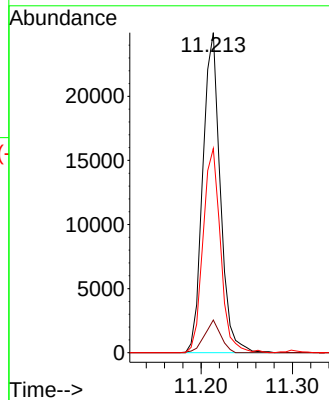
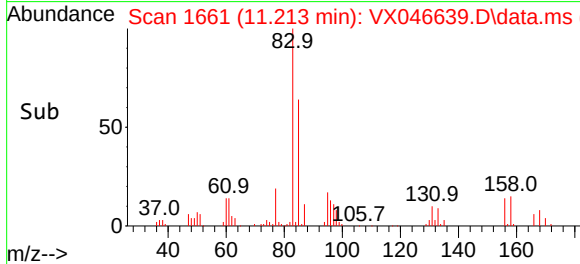
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 83 Resp: 3308
Ion Ratio Lower Upper
83 100
131 9.5 5.0 14.9
85 64.0 31.9 95.7

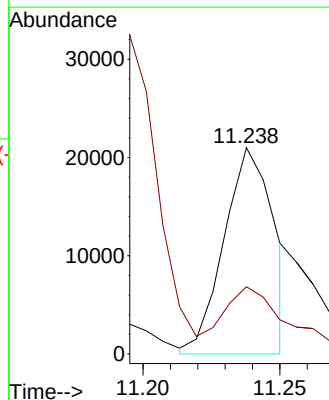
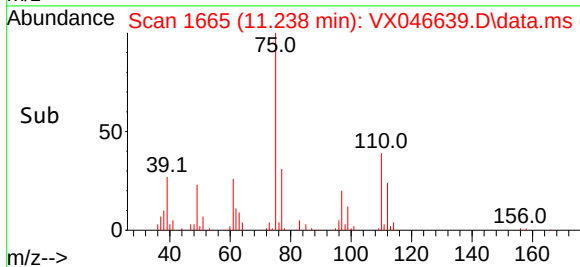
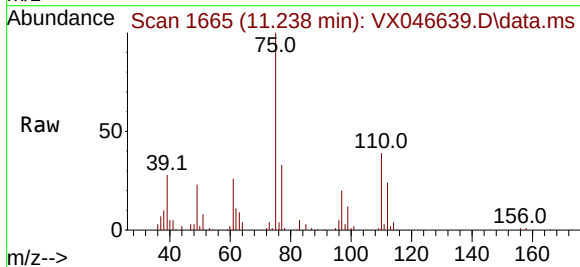
Manual Integrations
APPROVED

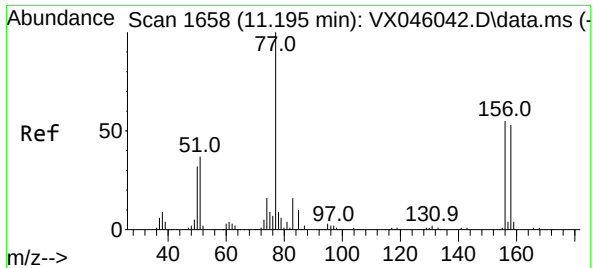
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#76
1,2,3-Trichloropropane
Concen: 18.824 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

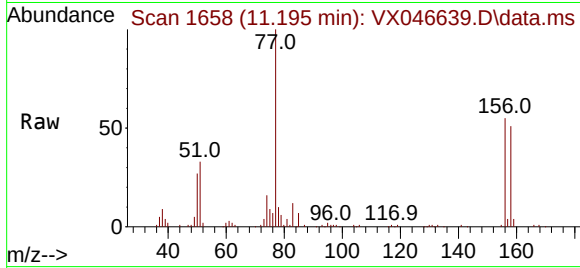
Tgt Ion: 75 Resp: 26532
Ion Ratio Lower Upper
75 100
77 43.5 20.5 61.5





#77
Bromobenzene
Concen: 19.206 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

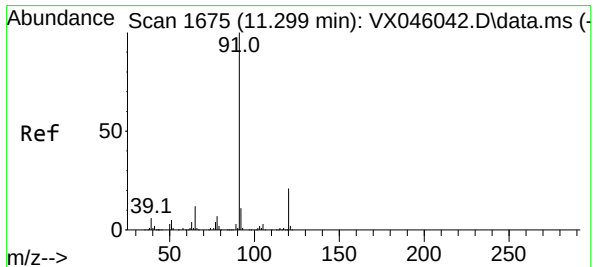
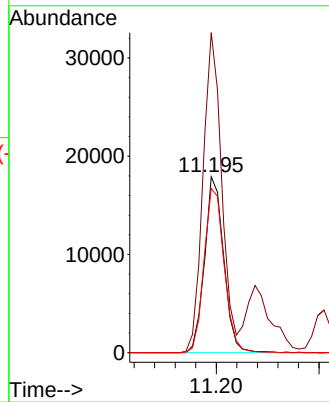
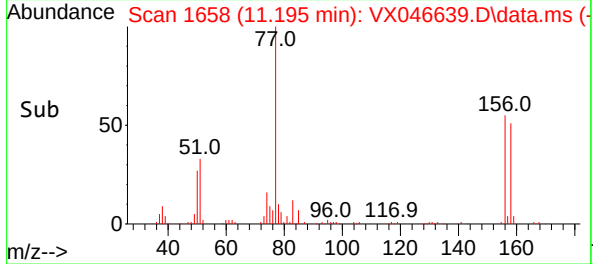
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion	Ratio	Lower	Upper
156	100		
77	176.7	92.8	278.3
158	97.7	48.8	146.3

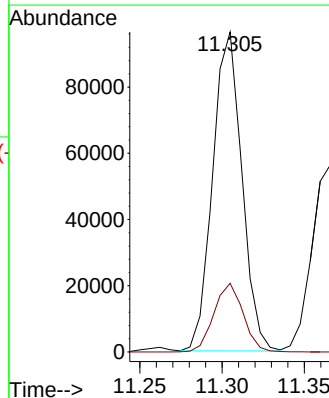
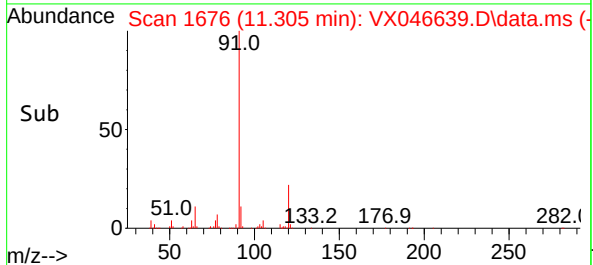
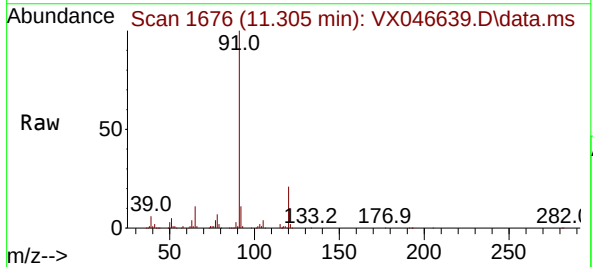
Manual Integrations
APPROVED

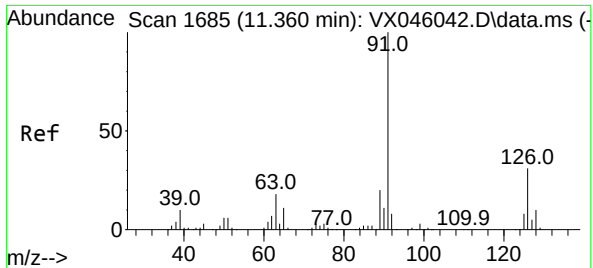
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#78
n-propylbenzene
Concen: 18.787 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.6	10.8	32.4





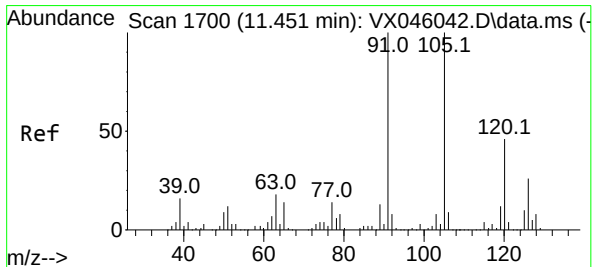
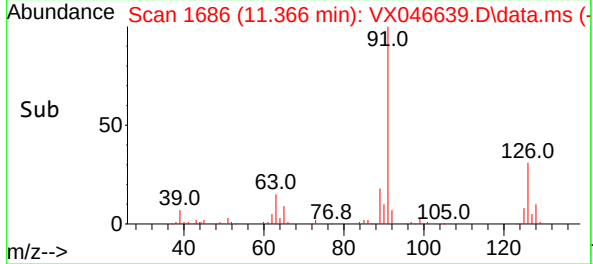
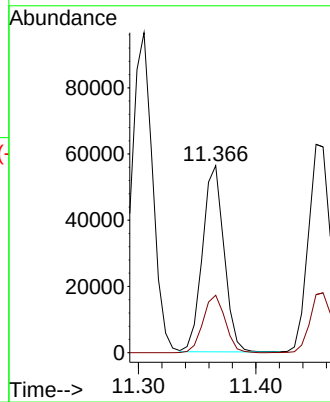
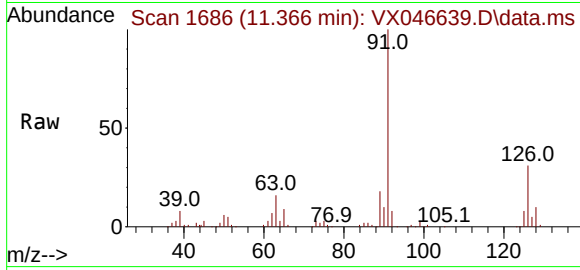
#79
2-Chlorotoluene
Concen: 18.786 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02

Tgt Ion: 91 Resp: 7172
Ion Ratio Lower Upper
91 100
126 31.7 15.6 46.7

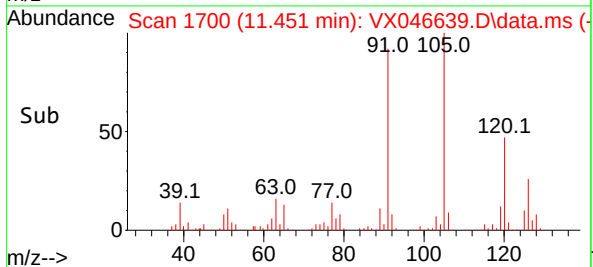
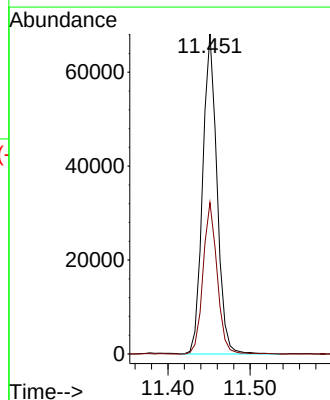
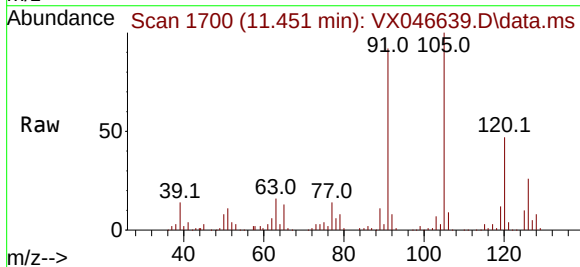
Manual Integrations
APPROVED

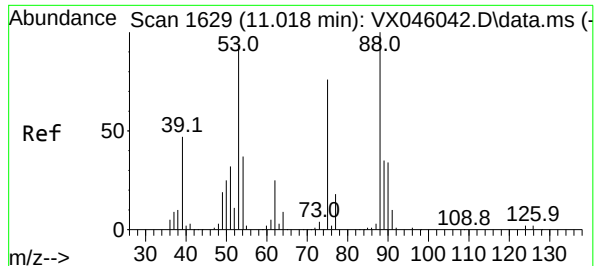
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#80
1,3,5-Trimethylbenzene
Concen: 18.940 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

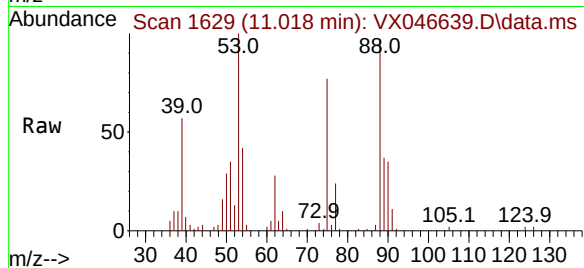
Tgt Ion:105 Resp: 82556
Ion Ratio Lower Upper
105 100
120 46.6 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 17.284 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

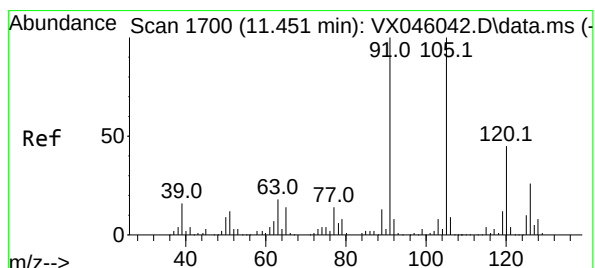
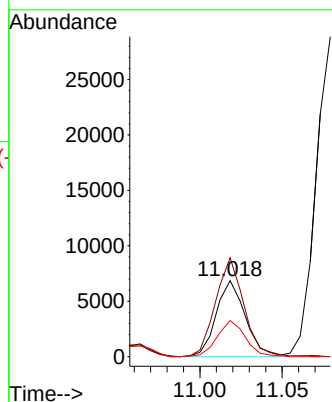
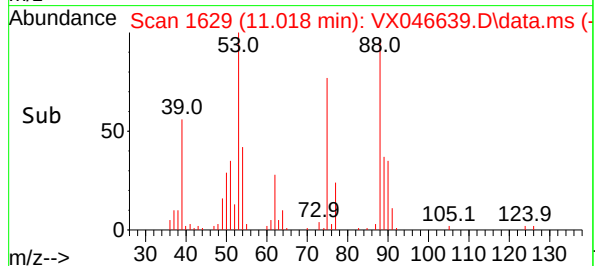
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion: 75 Resp: 8449
Ion Ratio Lower Upper
75 100
53 127.3 100.5 150.7
89 46.0 37.0 55.6

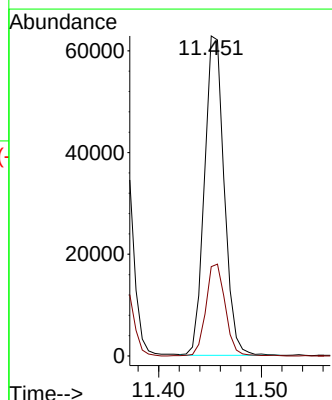
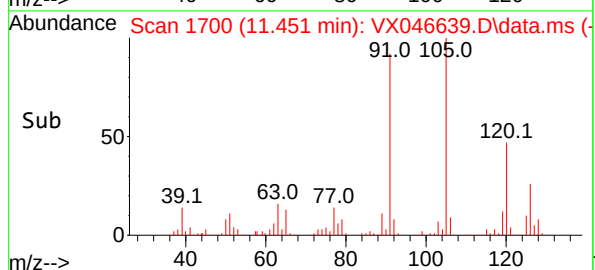
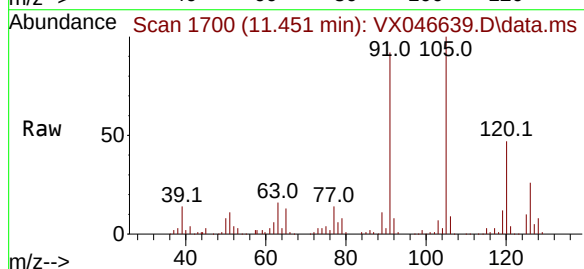
Manual Integrations
APPROVED

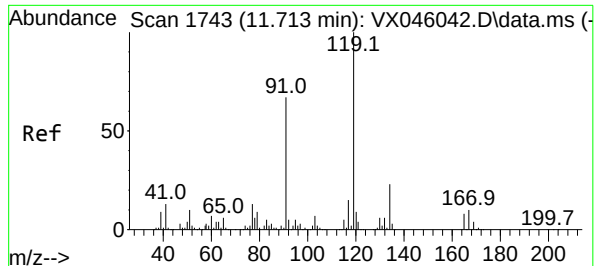
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#82
4-Chlorotoluene
Concen: 18.528 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

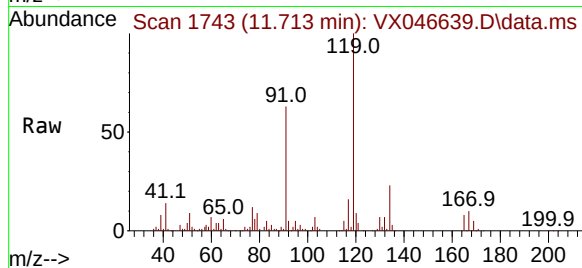
Tgt Ion: 91 Resp: 83845
Ion Ratio Lower Upper
91 100
126 28.4 13.3 39.8





#83
tert-Butylbenzene
Concen: 19.176 ug/l
RT: 11.713 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

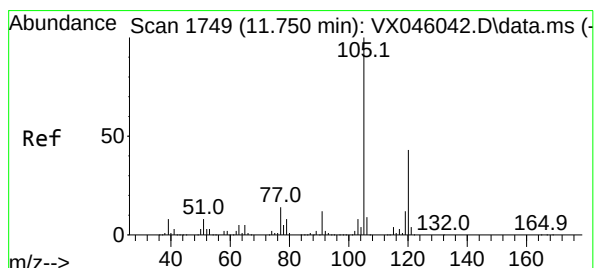
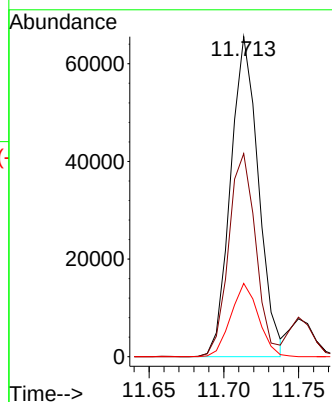
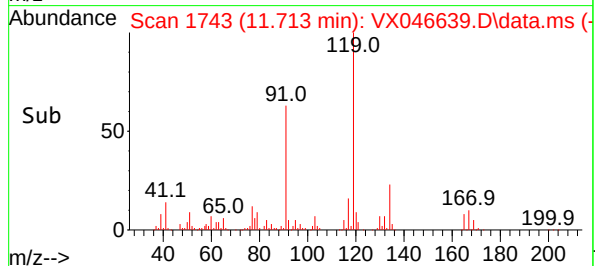
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



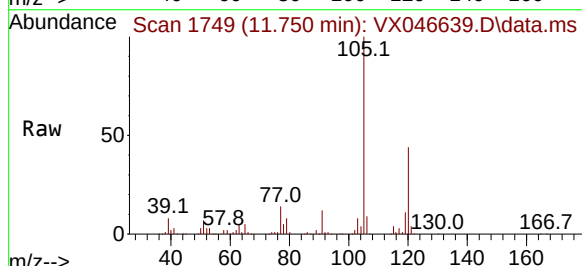
Tgt Ion:119 Resp: 8508
Ion Ratio Lower Upper
119 100
91 62.1 32.9 98.7
134 22.7 11.4 34.1

Manual Integrations
APPROVED

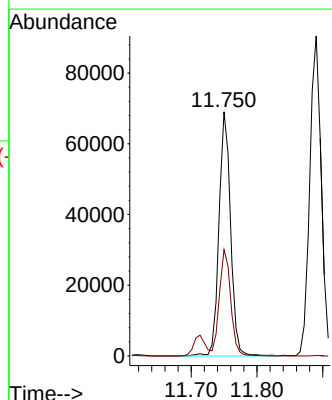
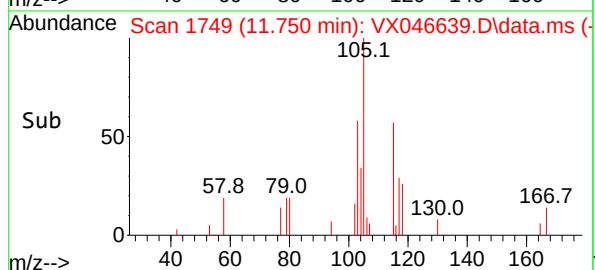
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

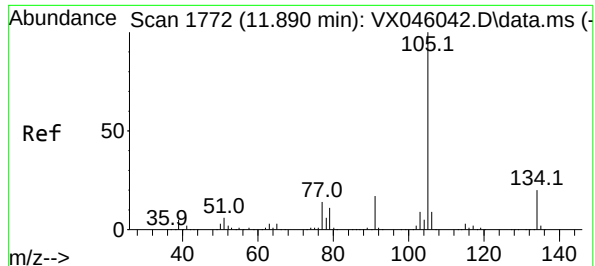


#84
1,2,4-Trimethylbenzene
Concen: 19.231 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58



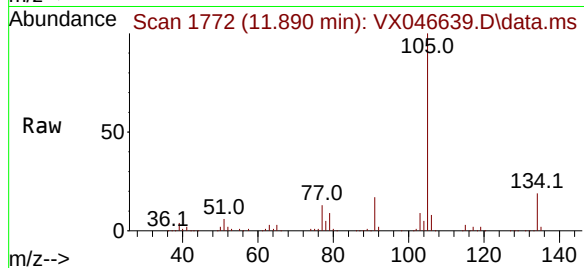
Tgt Ion:105 Resp: 84799
Ion Ratio Lower Upper
105 100
120 42.4 21.2 63.6





#85
 sec-Butylbenzene
 Concen: 19.333 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX046639.D
 Acq: 11 Jun 2025 15:58

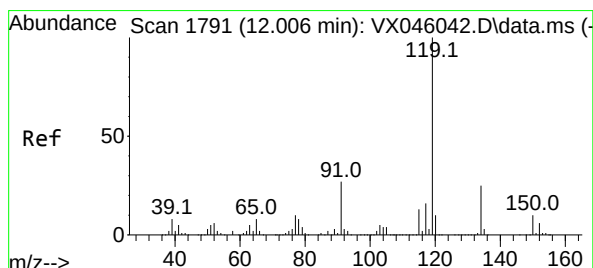
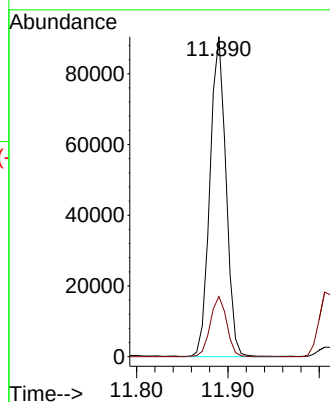
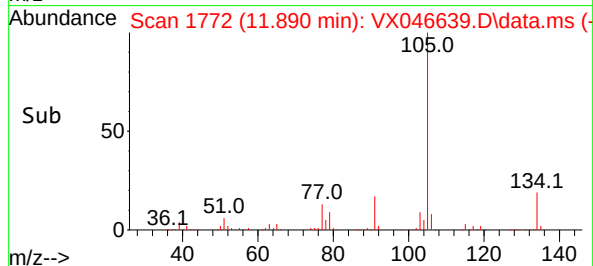
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBS02



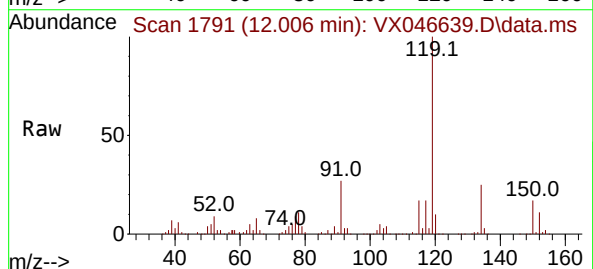
Tgt Ion:105 Resp: 110228
 Ion Ratio Lower Upper
 105 100
 134 19.2 9.7 29.1

Manual Integrations
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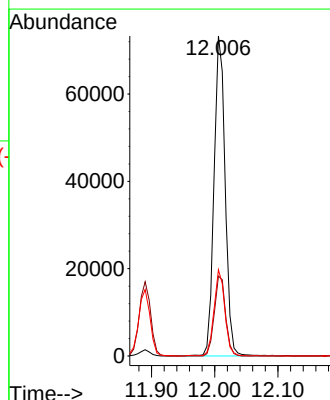
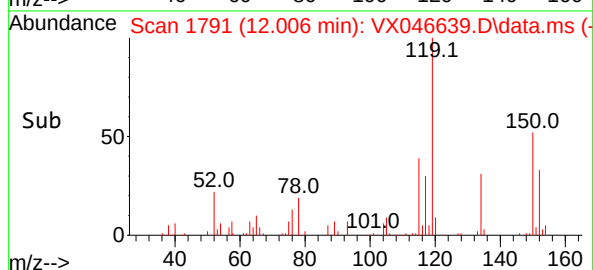
Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025

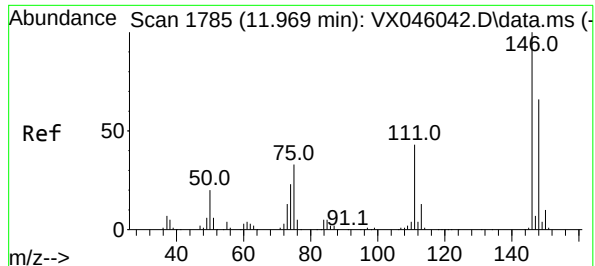


#86
 p-Isopropyltoluene
 Concen: 18.912 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX046639.D
 Acq: 11 Jun 2025 15:58



Tgt Ion:119 Resp: 89892
 Ion Ratio Lower Upper
 119 100
 134 25.1 12.5 37.5
 91 26.1 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 18.941 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion:146 Resp: 44650

Ion Ratio Lower Upper

146 100

111 43.4 22.1 66.3

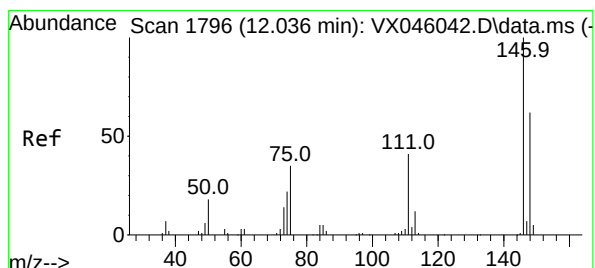
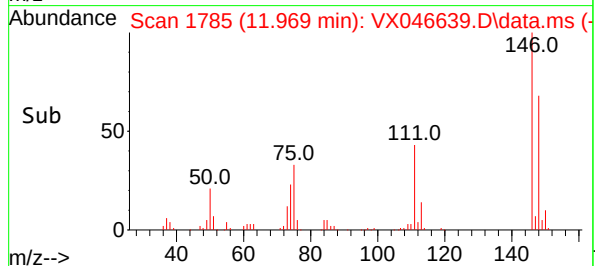
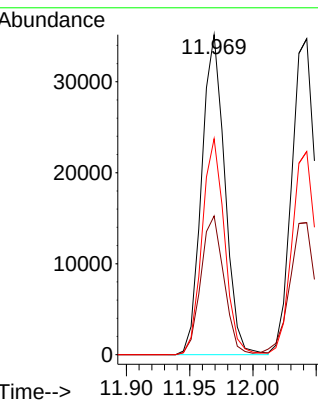
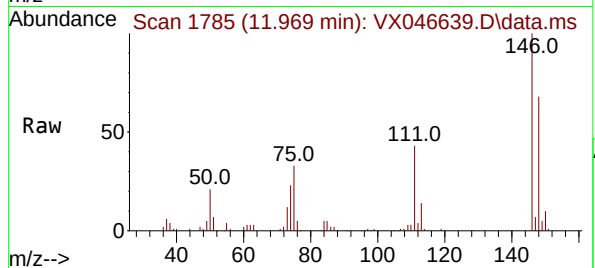
148 65.4 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 18.773 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.001 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

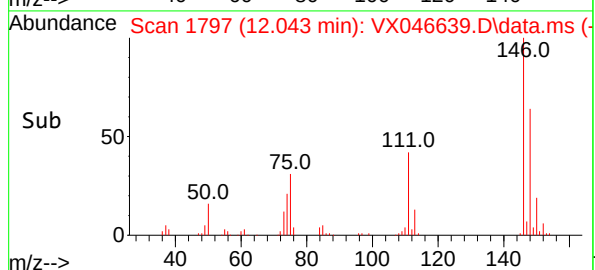
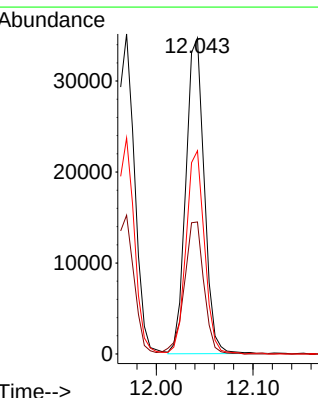
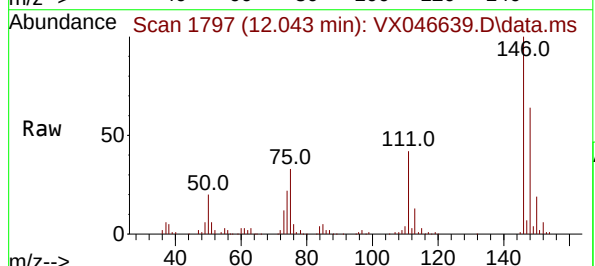
Tgt Ion:146 Resp: 45863

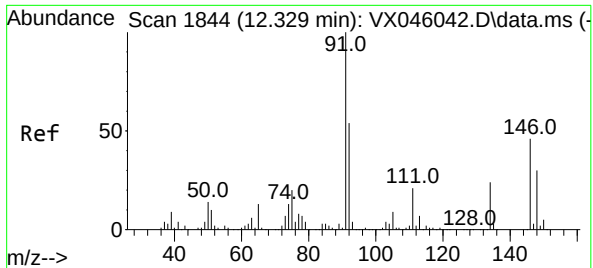
Ion Ratio Lower Upper

146 100

111 44.8 21.3 63.9

148 64.7 31.9 95.5





#89

n-Butylbenzene

Concen: 18.308 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX046639.D

Acq: 11 Jun 2025 15:58

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBS02

Tgt Ion: 91 Resp: 85456

Ion Ratio Lower Upper

91 100

92 53.3 26.9 80.7

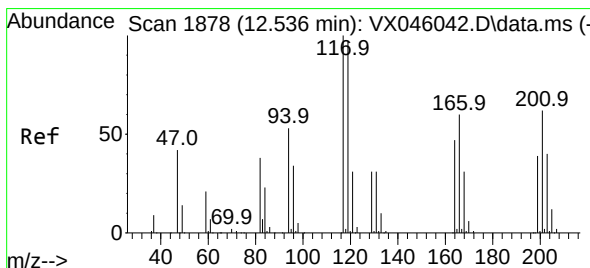
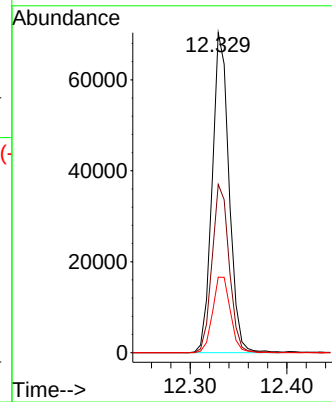
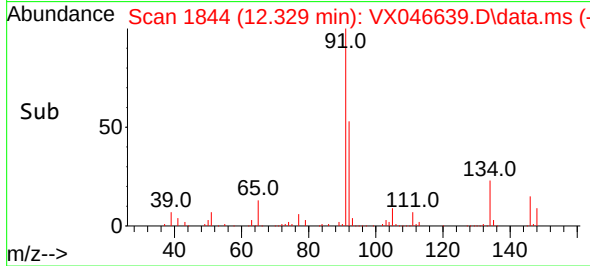
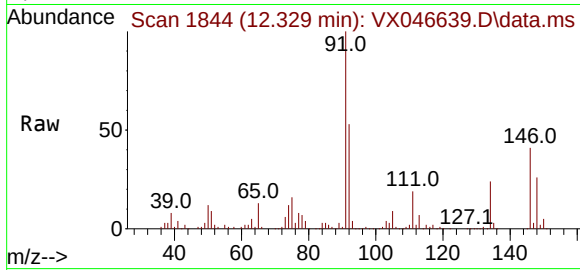
134 24.9 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#90

Hexachloroethane

Concen: 17.769 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046639.D

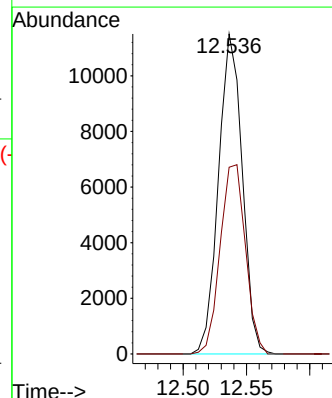
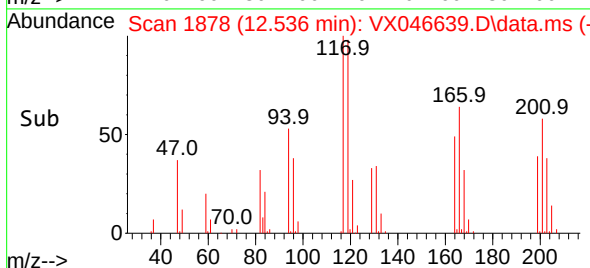
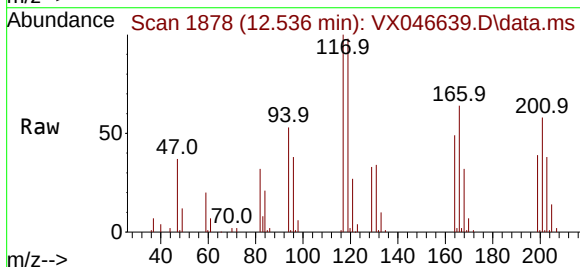
Acq: 11 Jun 2025 15:58

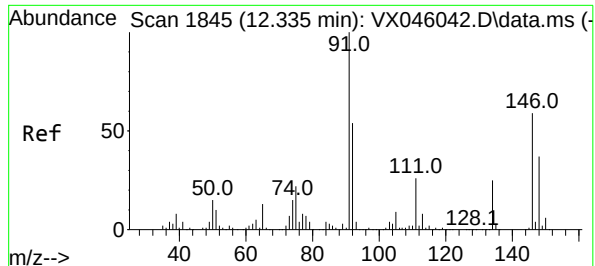
Tgt Ion:117 Resp: 15011

Ion Ratio Lower Upper

117 100

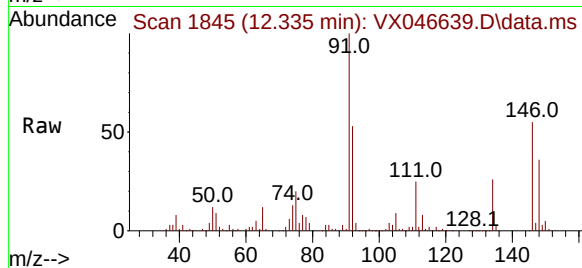
201 63.1 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 19.419 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

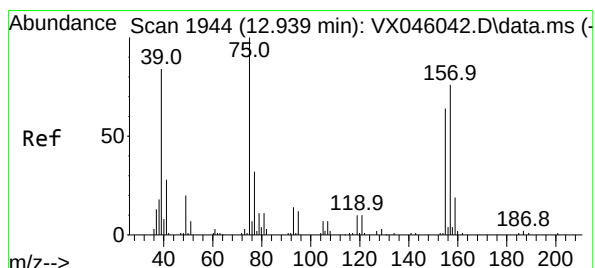
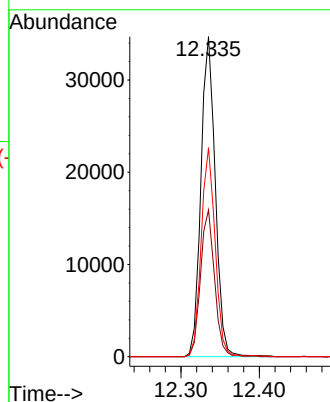
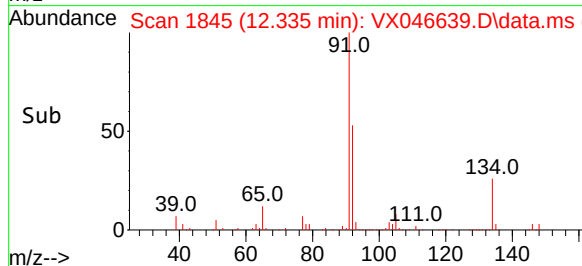
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion:146 Resp: 4419
Ion Ratio Lower Upper
146 100
111 44.9 22.4 67.3
148 63.4 31.6 94.8

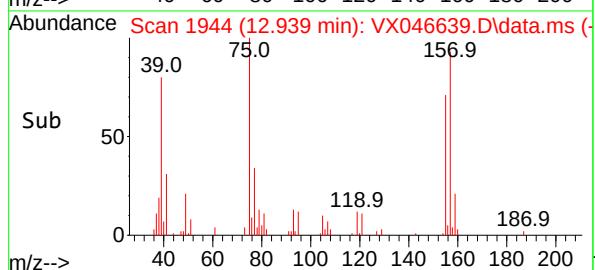
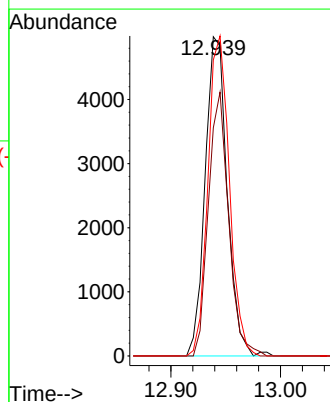
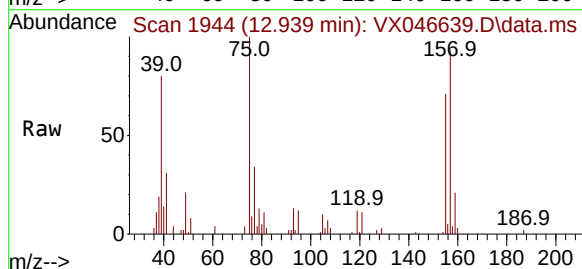
Manual Integrations
APPROVED

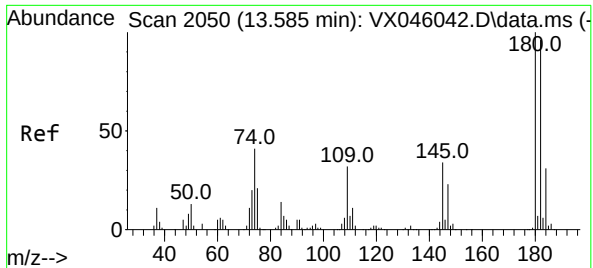
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.569 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

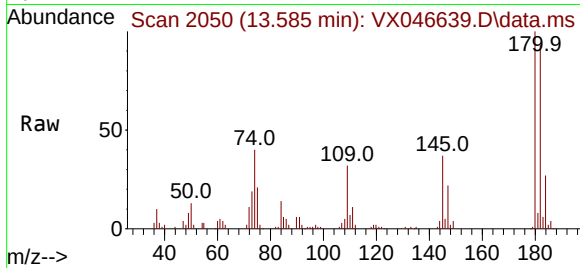
Tgt Ion: 75 Resp: 6962
Ion Ratio Lower Upper
75 100
155 75.9 34.9 104.8
157 97.2 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 18.645 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

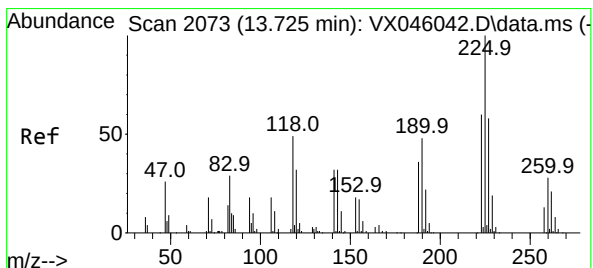
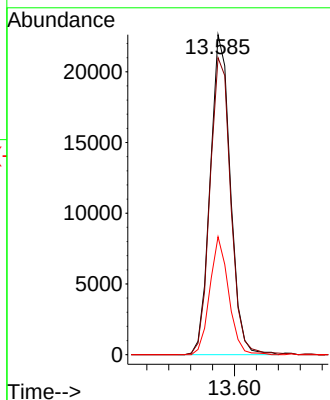
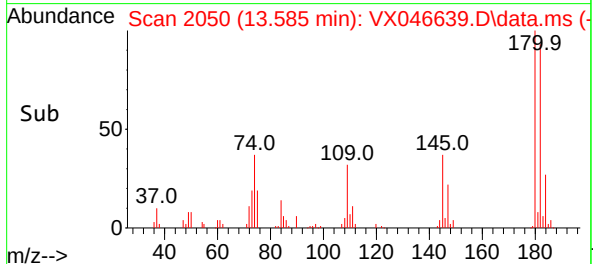
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



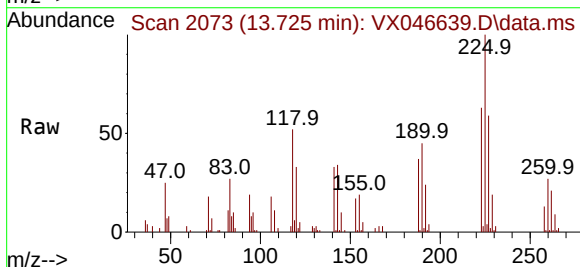
Tgt Ion:180 Resp: 28940
Ion Ratio Lower Upper
180 100
182 95.6 47.9 143.8
145 34.3 17.1 51.2

Manual Integrations
APPROVED

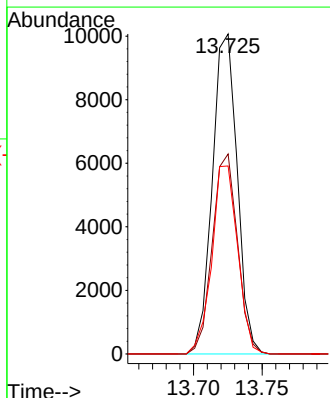
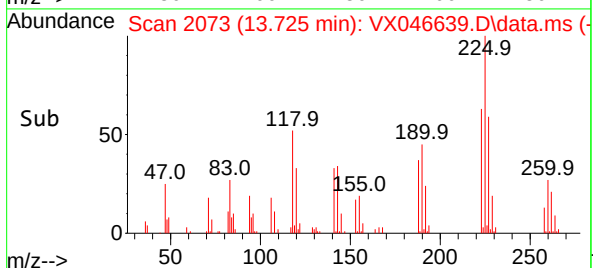
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

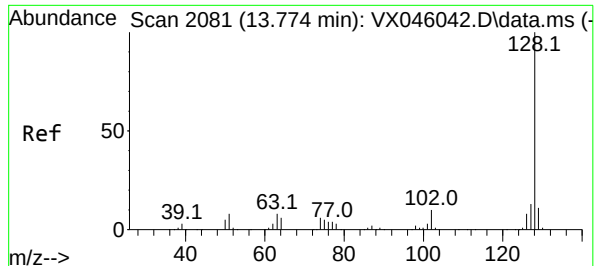


#94
Hexachlorobutadiene
Concen: 17.603 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58



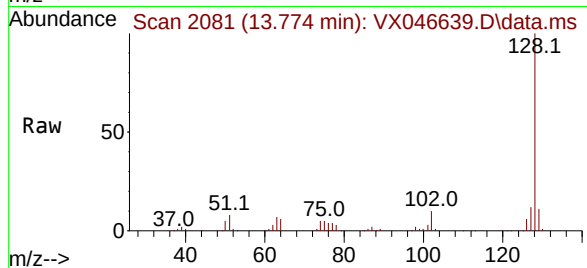
Tgt Ion:225 Resp: 12700
Ion Ratio Lower Upper
225 100
223 63.2 30.8 92.4
227 61.0 30.9 92.7





#95
Naphthalene
Concen: 19.148 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

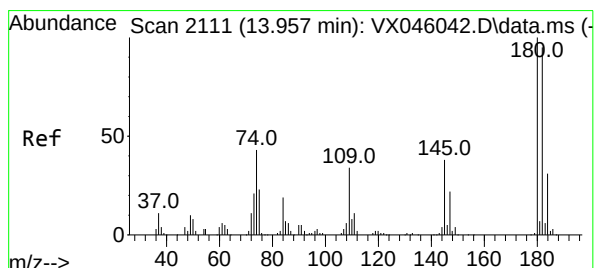
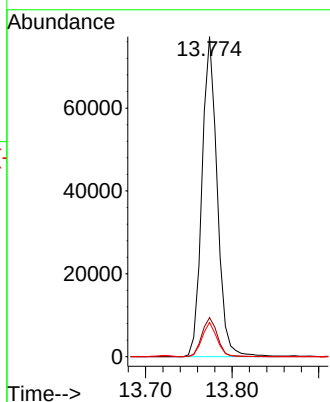
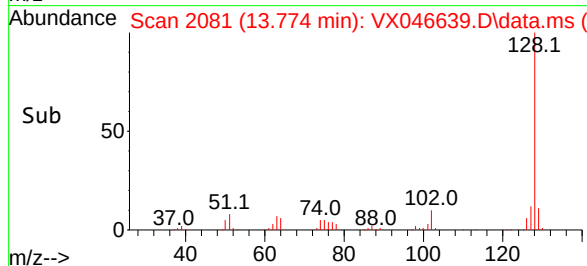
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBS02



Tgt Ion:128 Resp: 94270
Ion Ratio Lower Upper
128 100
127 12.5 10.4 15.6
129 10.6 8.6 13.0

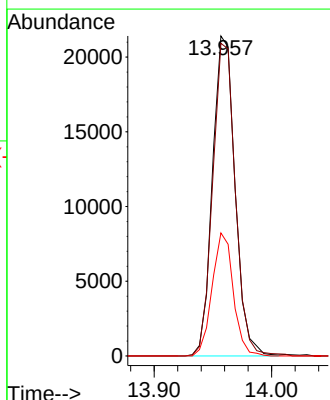
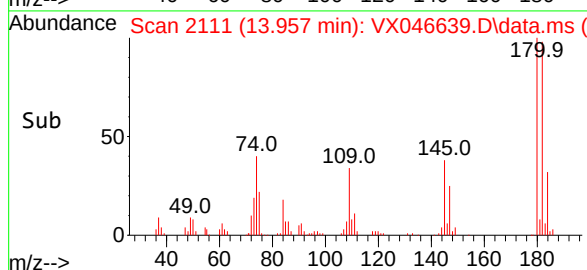
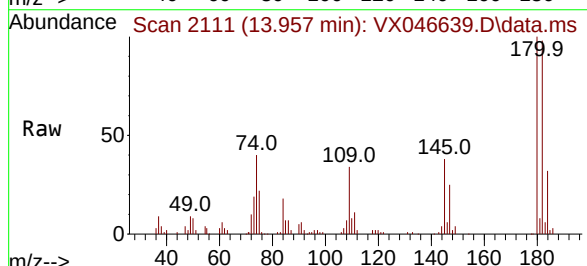
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.338 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046639.D
Acq: 11 Jun 2025 15:58

Tgt Ion:180 Resp: 28547
Ion Ratio Lower Upper
180 100
182 97.9 47.8 143.3
145 36.1 18.1 54.3



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VX0612WBS01	SDG No.:	Q2249
Lab Sample ID:	VX0612WBS01	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046660.D	1		06/12/25 13:38	VX061225

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	15.1		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	17.3		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	17.8		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	18.1		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	17.8		0.20	1.00	ug/L
71-43-2	Benzene	18.7		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	17.6		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.5		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	20.6		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	18.9		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	41.5		70 (74) - 130 (125)	83%	SPK: 50
1868-53-7	Dibromofluoromethane	48.0		70 (75) - 130 (124)	96%	SPK: 50
2037-26-5	Toluene-d8	47.8		70 (86) - 130 (113)	96%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.1		70 (77) - 130 (121)	96%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	85600	5.556			
540-36-3	1,4-Difluorobenzene	145000	6.769			
3114-55-4	Chlorobenzene-d5	131000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	69000	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\VX061225\
 Data File : VX046660.D
 Acq On : 12 Jun 2025 13:38
 Operator : JC/MD
 Sample : VX0612WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0612WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	85578	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.769	114	144622	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	130715	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	69016	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	63210	41.517	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	83.040%		
35) Dibromofluoromethane	5.397	113	51021	47.973	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	95.940%		
50) Toluene-d8	8.647	98	167446	47.755	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.500%		
62) 4-Bromofluorobenzene	11.079	95	69758	48.084	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	96.160%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	17232	14.504	ug/l	100
3) Chloromethane	1.306	50	15679	14.498	ug/l	97
4) Vinyl Chloride	1.386	62	16285	15.106	ug/l	100
5) Bromomethane	1.623	94	10482	16.017	ug/l	99
6) Chloroethane	1.703	64	10352	14.800	ug/l	95
7) Trichlorofluoromethane	1.904	101	27911	15.648	ug/l	92
8) Diethyl Ether	2.148	74	10221	16.219	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.343	101	19140	17.032	ug/l	95
10) Methyl Iodide	2.465	142	17822	14.630	ug/l	95
11) Tert butyl alcohol	2.965	59	14604	86.443	ug/l	99
12) 1,1-Dichloroethene	2.331	96	17566	17.289	ug/l	84
13) Acrolein	2.251	56	9994	73.047	ug/l	100
14) Allyl chloride	2.678	41	33622	16.850	ug/l	93
15) Acrylonitrile	3.074	53	58711	91.913	ug/l	99
16) Acetone	2.392	43	52132	90.187	ug/l	92
17) Carbon Disulfide	2.526	76	33805	15.809	ug/l	100
18) Methyl Acetate	2.715	43	35232	19.427	ug/l	95
19) Methyl tert-butyl Ether	3.129	73	66811	18.793	ug/l	98
20) Methylene Chloride	2.800	84	21926	17.951	ug/l	92
21) trans-1,2-Dichloroethene	3.105	96	18523	17.227	ug/l	97
22) Diisopropyl ether	3.769	45	72754	18.494	ug/l #	65
23) Vinyl Acetate	3.733	43	272827	89.826	ug/l	99
24) 1,1-Dichloroethane	3.623	63	38925	17.753	ug/l	99
25) 2-Butanone	4.568	43	74592	88.008	ug/l	96
26) 2,2-Dichloropropane	4.483	77	29645	18.213	ug/l	97
27) cis-1,2-Dichloroethene	4.501	96	23891	18.050	ug/l	95
28) Bromochloromethane	4.909	49	26095	24.953	ug/l	92
29) Tetrahydrofuran	5.013	42	45745	85.463	ug/l	96
30) Chloroform	5.105	83	41974	18.271	ug/l	97
31) Cyclohexane	5.476	56	29749	16.807	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	35020	17.821	ug/l	97
36) 1,1-Dichloropropene	5.702	75	25822	16.997	ug/l	97
37) Ethyl Acetate	4.727	43	29586	19.954	ug/l	99
38) Carbon Tetrachloride	5.690	117	29642	17.420	ug/l	99
39) Methylcyclohexane	7.385	83	29365	16.376	ug/l	95
40) Benzene	6.049	78	79810	18.661	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
 Data File : VX046660.D
 Acq On : 12 Jun 2025 13:38
 Operator : JC/MD
 Sample : VX0612WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0612WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/13/2025
 Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:42:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.940	41	16120	17.507	ug/l #	92
42) 1,2-Dichloroethane	6.098	62	31253	17.565	ug/l	97
43) Isopropyl Acetate	6.348	43	46852	18.125	ug/l	96
44) Trichloroethene	7.129	130	20132	18.526	ug/l	97
45) 1,2-Dichloropropane	7.433	63	21411	19.396	ug/l	96
46) Dibromomethane	7.586	93	15723	18.933	ug/l	94
47) Bromodichloromethane	7.824	83	33506	19.622	ug/l	98
48) Methyl methacrylate	7.696	41	24360	18.316	ug/l	92
49) 1,4-Dioxane	7.659	88	6794	382.003	ug/l	99
51) 4-Methyl-2-Pentanone	8.573	43	158516	96.503	ug/l	97
52) Toluene	8.720	92	52013	19.796	ug/l	98
53) t-1,3-Dichloropropene	8.982	75	29385	19.193	ug/l	98
54) cis-1,3-Dichloropropene	8.372	75	32617	19.161	ug/l #	85
55) 1,1,2-Trichloroethane	9.153	97	21748	20.618	ug/l	99
56) Ethyl methacrylate	9.116	69	32307	19.903	ug/l	92
57) 1,3-Dichloropropane	9.311	76	35837	19.225	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	87671	99.160	ug/l	97
59) 2-Hexanone	9.433	43	113348	96.217	ug/l	95
60) Dibromochloromethane	9.518	129	25395	20.468	ug/l	98
61) 1,2-Dibromoethane	9.610	107	21756	19.793	ug/l	98
64) Tetrachloroethene	9.275	164	16534	18.916	ug/l	98
65) Chlorobenzene	10.079	112	59264	19.277	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.165	131	21995	21.172	ug/l	98
67) Ethyl Benzene	10.195	91	99830	18.601	ug/l	97
68) m/p-Xylenes	10.299	106	77489	39.802	ug/l	94
69) o-Xylene	10.640	106	37114	19.709	ug/l	98
70) Styrene	10.652	104	66406	20.601	ug/l	96
71) Bromoform	10.799	173	16330	20.616	ug/l #	99
73) Isopropylbenzene	10.963	105	101339	18.679	ug/l	99
74) N-amyl acetate	10.841	43	42555	17.811	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	33322	19.188	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	26882m	18.389	ug/l	
77) Bromobenzene	11.195	156	24285	19.285	ug/l	93
78) n-propylbenzene	11.305	91	118689	18.075	ug/l	98
79) 2-Chlorotoluene	11.366	91	72123	18.214	ug/l	98
80) 1,3,5-Trimethylbenzene	11.451	105	85488	18.909	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.018	75	9208	18.170	ug/l	91
82) 4-Chlorotoluene	11.451	91	86099	18.344	ug/l	97
83) tert-Butylbenzene	11.713	119	84512	18.363	ug/l	95
84) 1,2,4-Trimethylbenzene	11.750	105	85107	18.609	ug/l	98
85) sec-Butylbenzene	11.890	105	106791	18.059	ug/l	99
86) p-Isopropyltoluene	12.006	119	92930	18.850	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	47662	19.491	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	48120	18.991	ug/l	99
89) n-Butylbenzene	12.329	91	85715	17.705	ug/l	99
90) Hexachloroethane	12.536	117	15279	17.437	ug/l	91
91) 1,2-Dichlorobenzene	12.335	146	45679	19.352	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	12.945	75	6541	16.820	ug/l	80
93) 1,2,4-Trichlorobenzene	13.585	180	31308	19.444	ug/l	97
94) Hexachlorobutadiene	13.725	225	13715	18.328	ug/l	99
95) Naphthalene	13.774	128	101037	19.787	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	30574	18.936	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046660.D
Acq On : 12 Jun 2025 13:38
Operator : JC/MD
Sample : VX0612WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:42:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

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

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

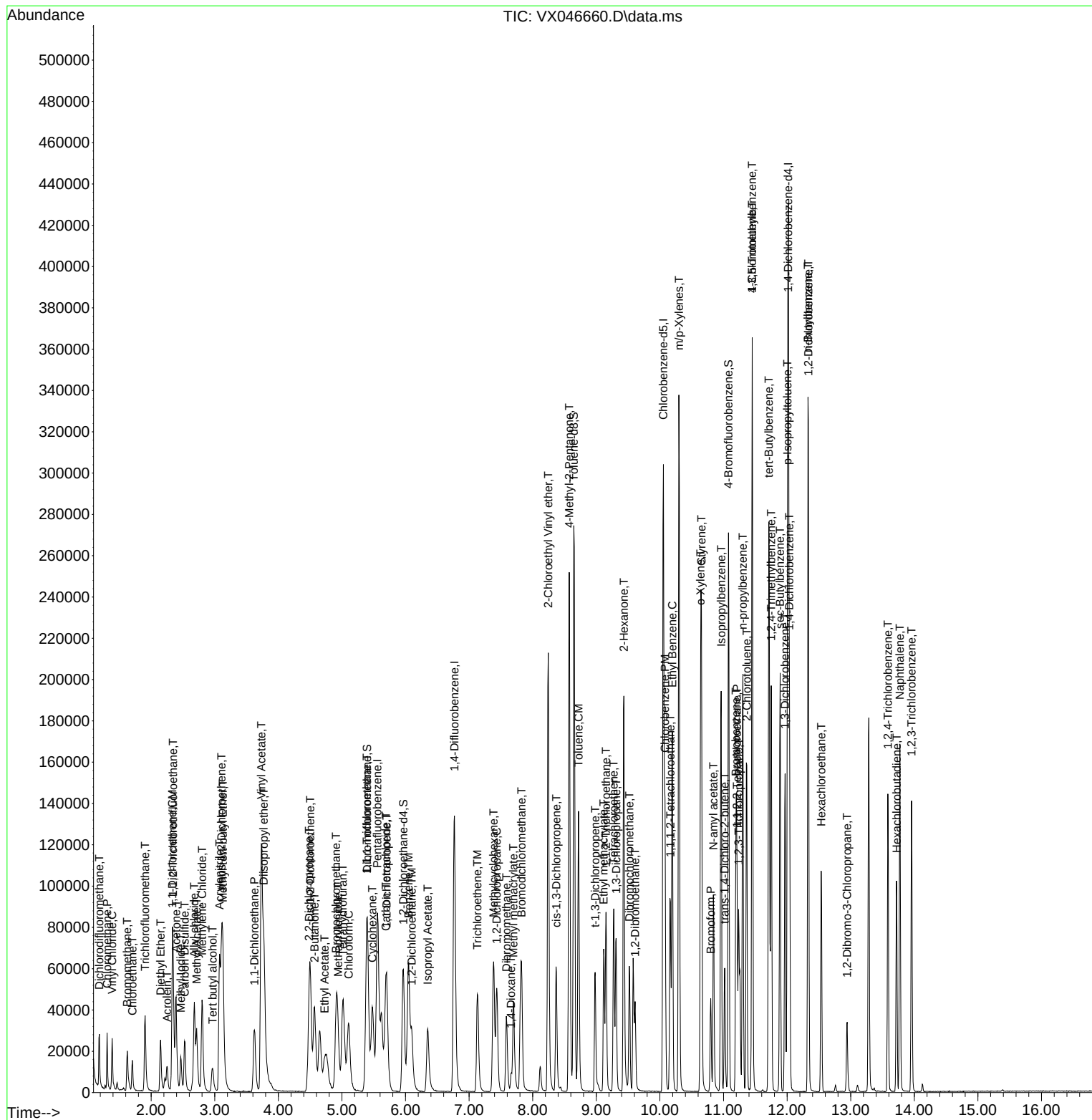
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061225\
Data File : VX046660.D
Acq On : 12 Jun 2025 13:38
Operator : JC/MD
Sample : VX0612WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

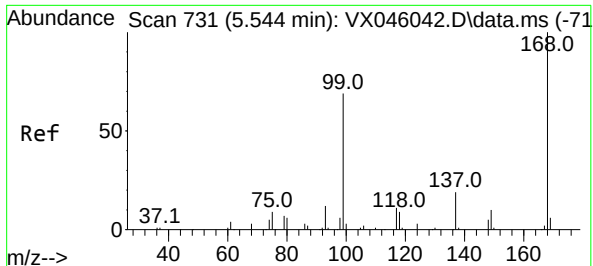
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Manual Integrations
APPROVED

Reviewed By : John Carlone 06/13/2025
Supervised By : Mahesh Dadoda 06/13/2025

Quant Time: Jun 13 01:42:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration





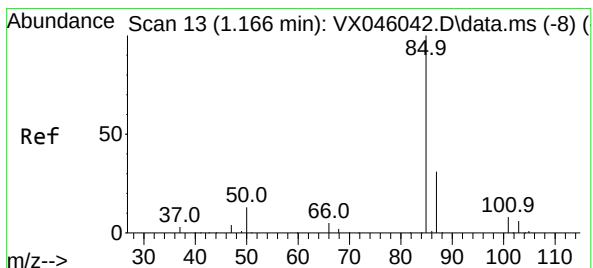
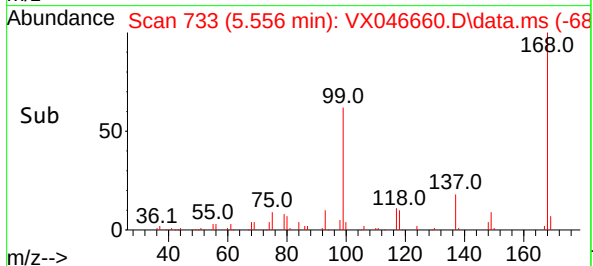
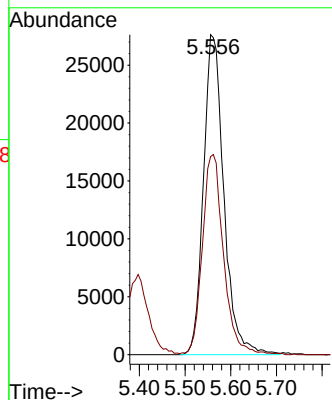
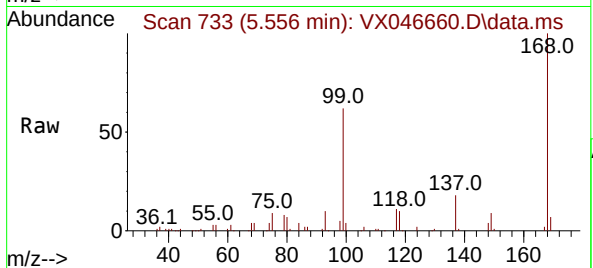
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion:168 Resp: 85578
Ion Ratio Lower Upper
168 100
99 61.5 54.9 82.3

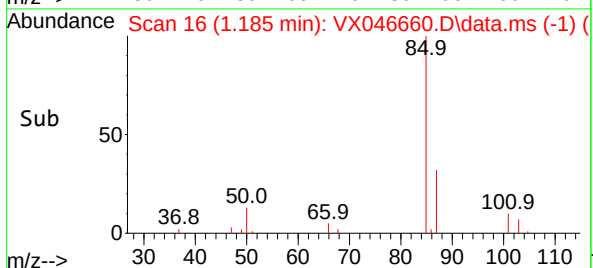
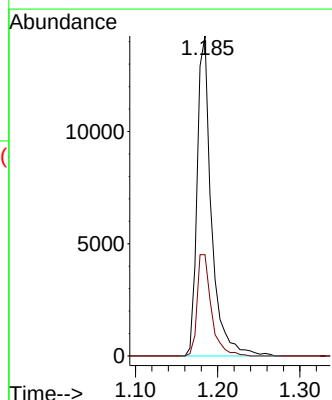
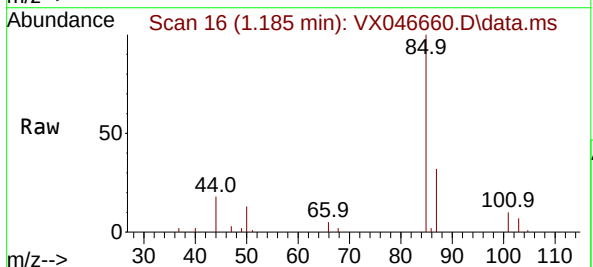
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

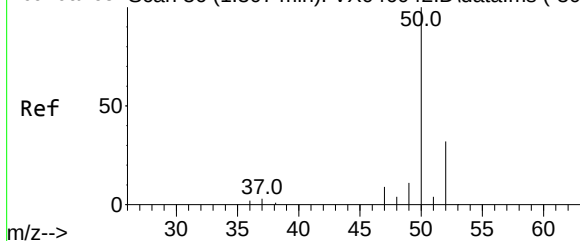


#2
Dichlorodifluoromethane
Concen: 14.504 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 85 Resp: 17232
Ion Ratio Lower Upper
85 100
87 31.7 15.7 47.1



Abundance Scan 36 (1.307 min): VX046042.D\data.ms (-30)



#3

Chloromethane

Concen: 14.498 ug/l

RT: 1.306 min Scan# 30

Delta R.T. -0.001 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 50 Resp: 15679

Ion Ratio Lower Upper

50 100

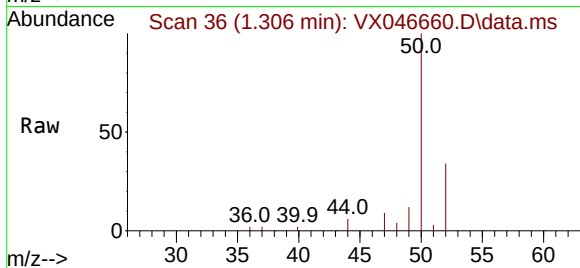
52 33.5 25.4 38.2

Manual Integrations

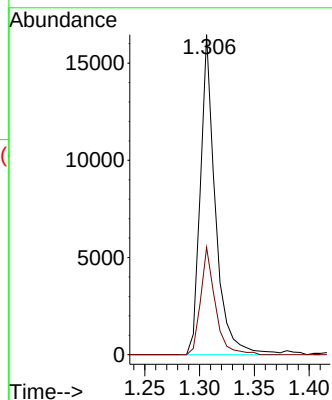
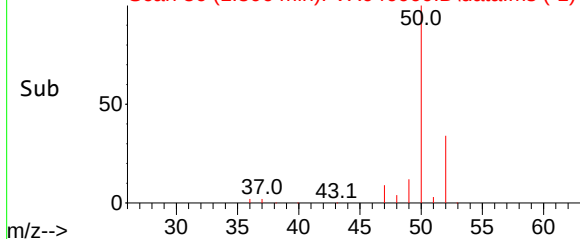
APPROVED

Reviewed By :John Carlone 06/13/2025

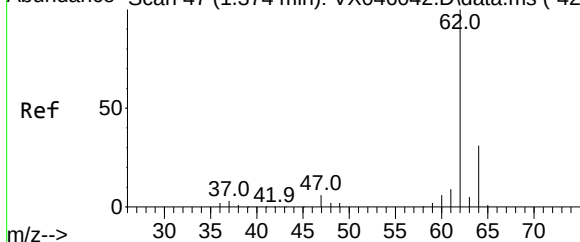
Supervised By :Mahesh Dadoda 06/13/2025



Abundance Scan 36 (1.306 min): VX046660.D\data.ms (-1)



Abundance Scan 47 (1.374 min): VX046042.D\data.ms (-42)



#4

Vinyl Chloride

Concen: 15.106 ug/l

RT: 1.386 min Scan# 49

Delta R.T. -0.000 min

Lab File: VX046660.D

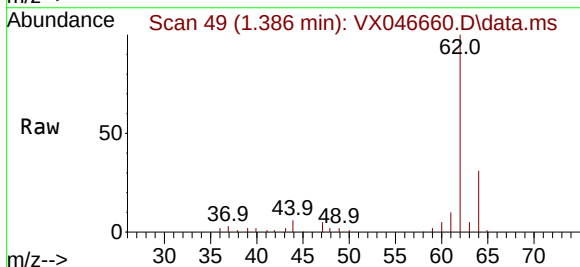
Acq: 12 Jun 2025 13:38

Tgt Ion: 62 Resp: 16285

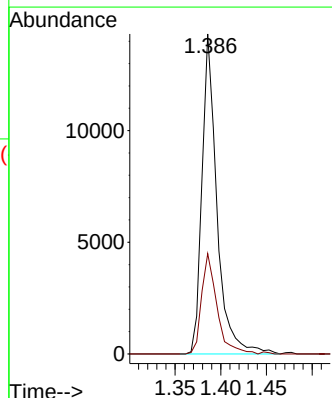
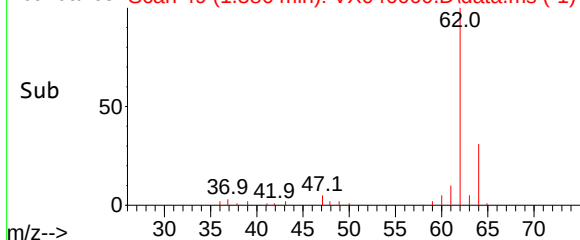
Ion Ratio Lower Upper

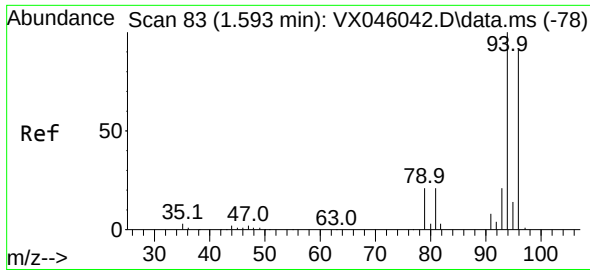
62 100

64 31.3 25.2 37.8



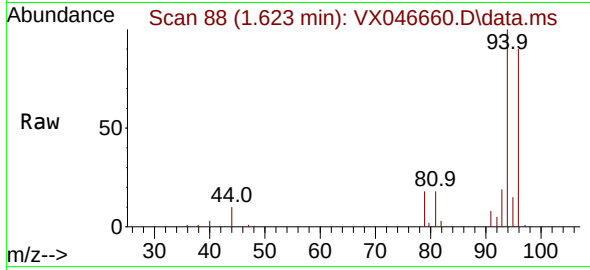
Abundance Scan 49 (1.386 min): VX046660.D\data.ms (-1)





#5
Bromomethane
Concen: 16.017 ug/l
RT: 1.623 min Scan# 81
Delta R.T. -0.001 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

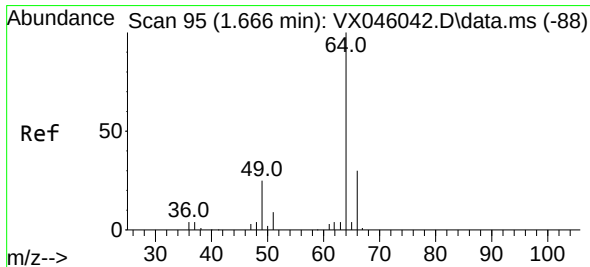
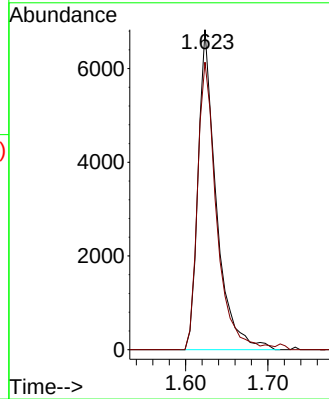
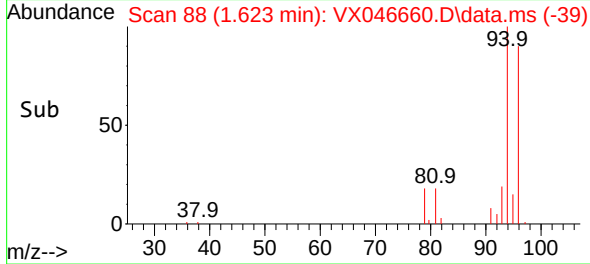
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion: 94 Resp: 1048
Ion Ratio Lower Upper
94 100
96 89.9 72.8 109.2

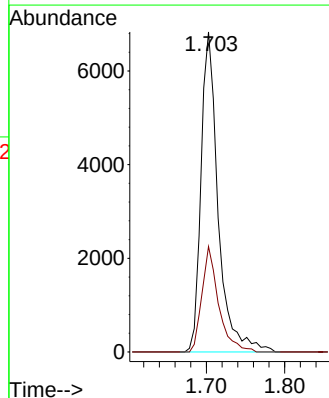
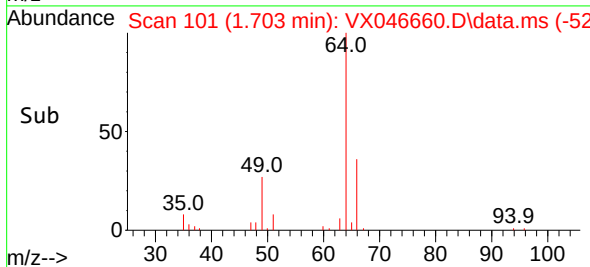
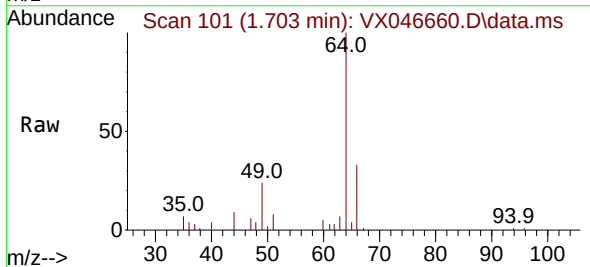
Manual Integrations
APPROVED

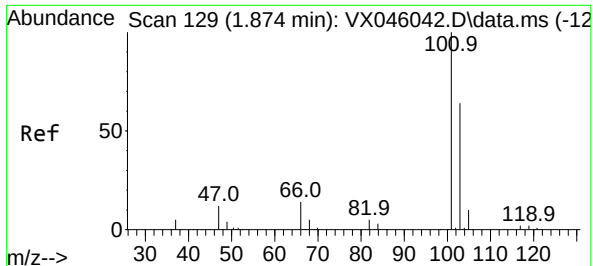
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#6
Chloroethane
Concen: 14.800 ug/l
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

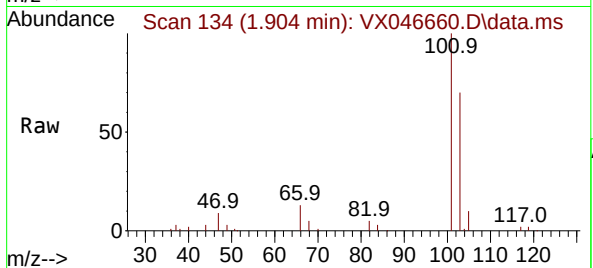
Tgt Ion: 64 Resp: 10352
Ion Ratio Lower Upper
64 100
66 32.9 24.3 36.5





#7
Trichlorofluoromethane
Concen: 15.648 ug/l
RT: 1.904 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

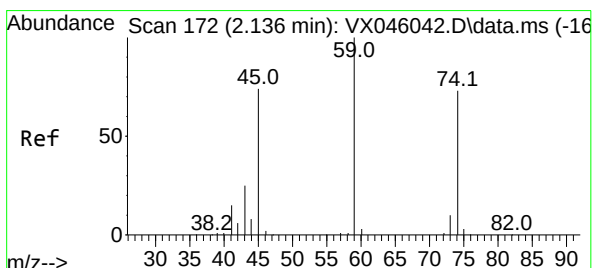
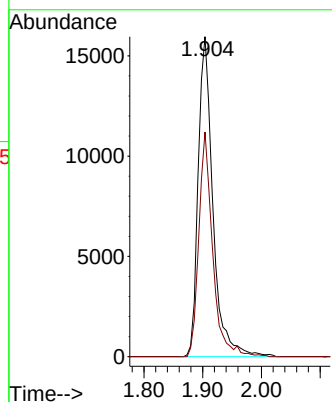
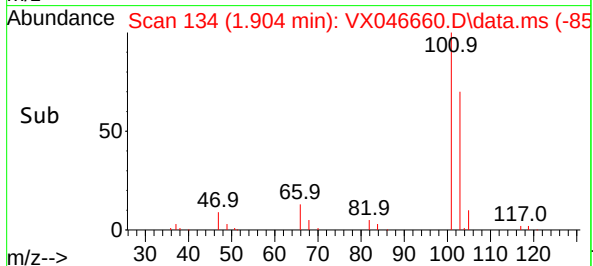
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion:101 Resp: 2791
Ion Ratio Lower Upper
101 100
103 70.2 51.0 76.4

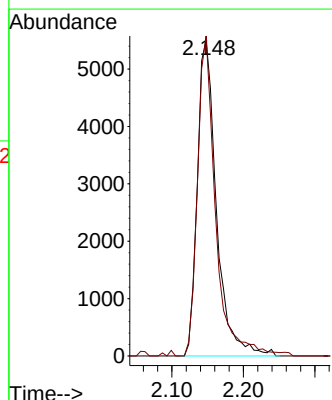
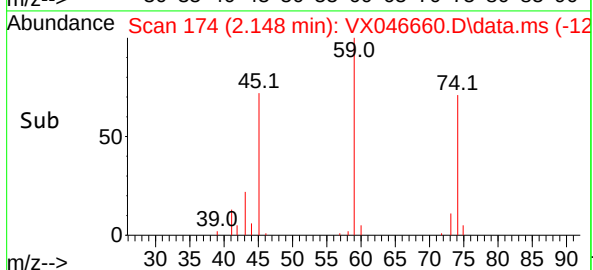
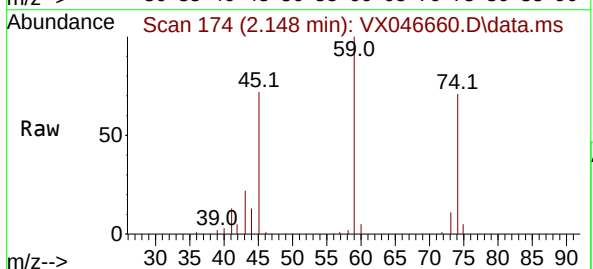
Manual Integrations
APPROVED

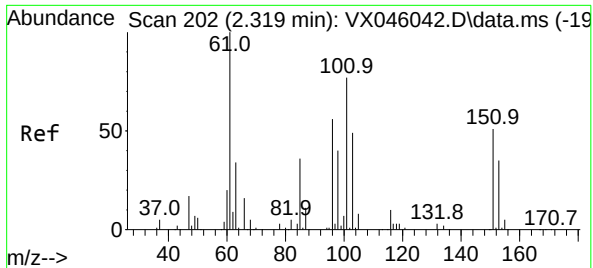
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#8
Diethyl Ether
Concen: 16.219 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

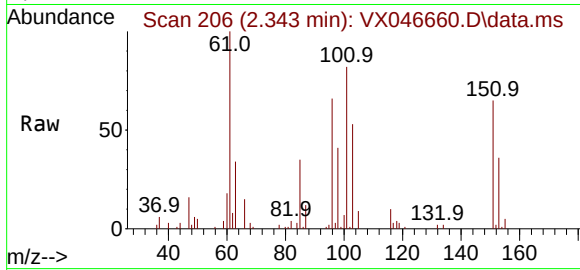
Tgt Ion: 74 Resp: 10221
Ion Ratio Lower Upper
74 100
45 96.2 54.9 164.8





#9
1,1,2-Trichlorotrifluoroethane
Concen: 17.032 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

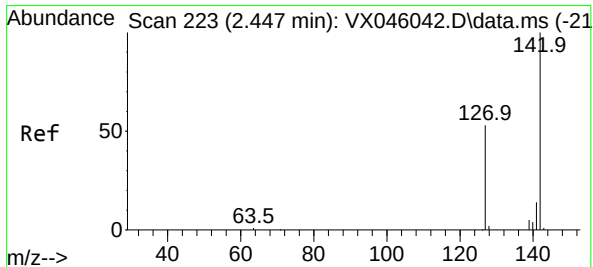
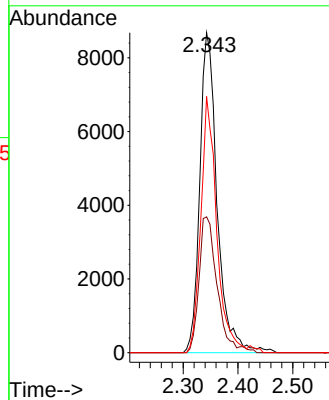
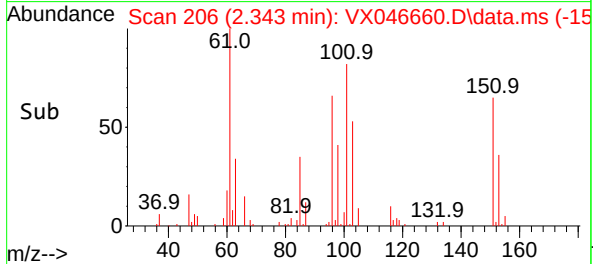
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion:101 Resp: 19140
Ion Ratio Lower Upper
101 100
85 44.4 38.6 58.0
151 73.0 55.2 82.8

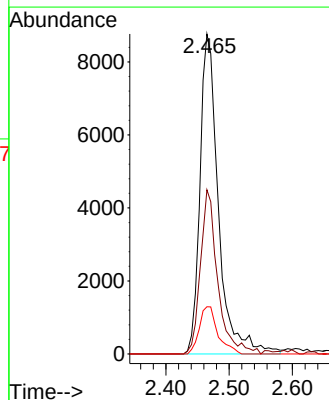
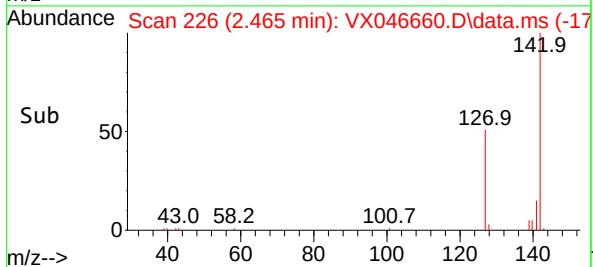
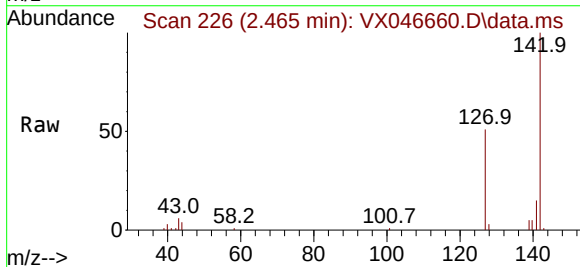
Manual Integrations
APPROVED

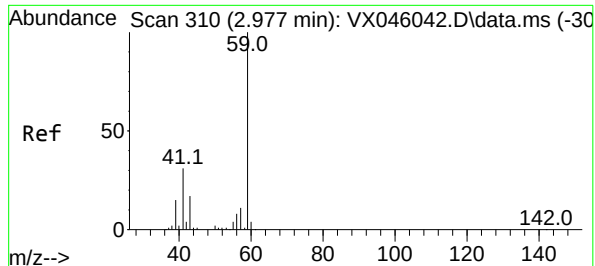
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#10
Methyl Iodide
Concen: 14.630 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion:142 Resp: 17822
Ion Ratio Lower Upper
142 100
127 47.9 41.7 62.5
141 14.8 11.5 17.3





#11

Tert butyl alcohol

Concen: 86.443 ug/l

RT: 2.965 min Scan# 30

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 59 Resp: 14604

Ion Ratio Lower Upper

59 100

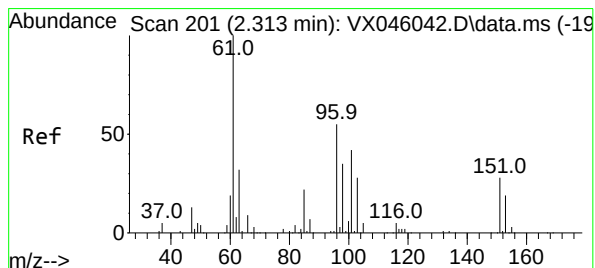
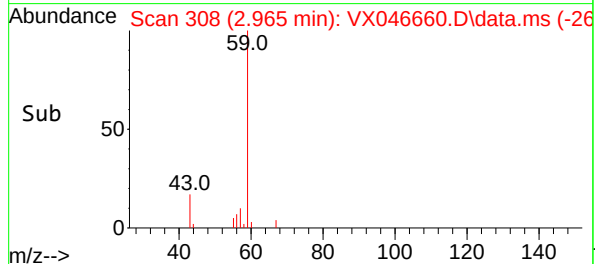
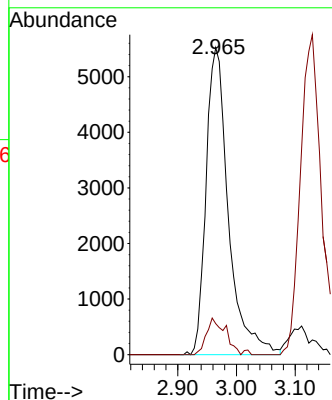
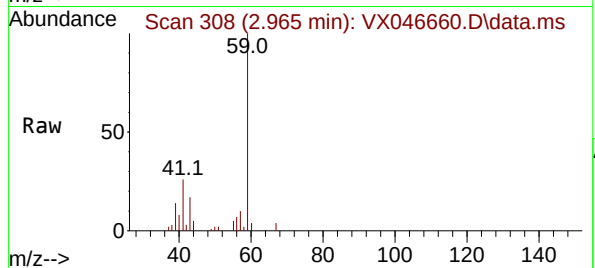
57 10.2 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#12

1,1-Dichloroethene

Concen: 17.289 ug/l

RT: 2.331 min Scan# 204

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

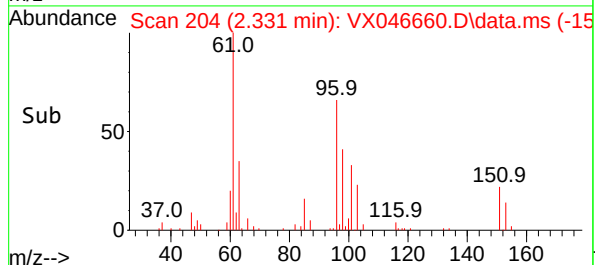
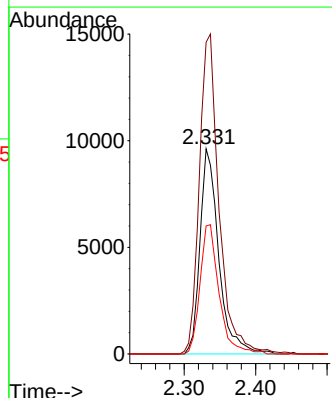
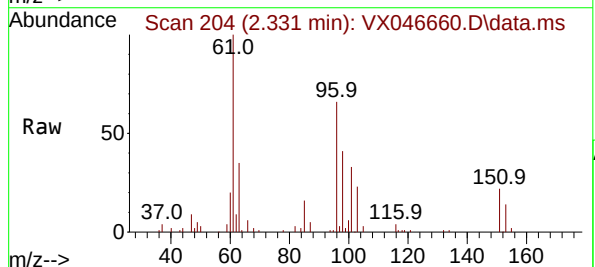
Tgt Ion: 96 Resp: 17566

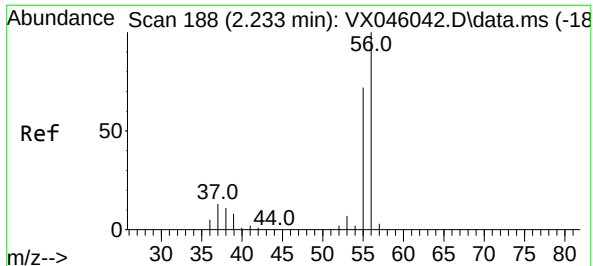
Ion Ratio Lower Upper

96 100

61 151.9 146.2 219.2

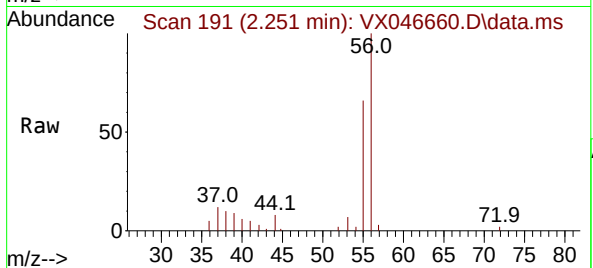
98 62.4 51.0 76.6





#13
Acrolein
Concen: 73.047 ug/l
RT: 2.251 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

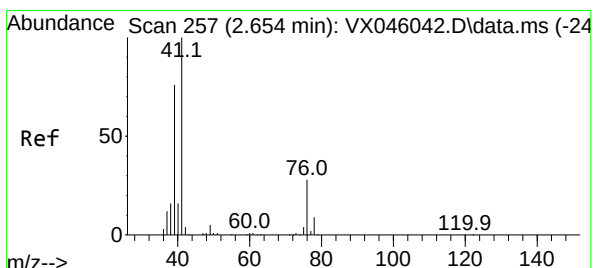
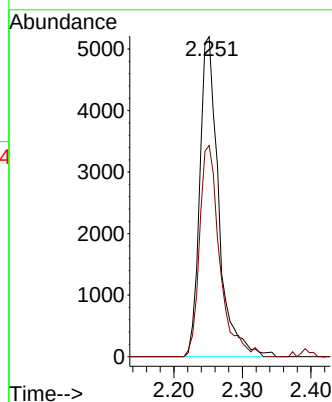
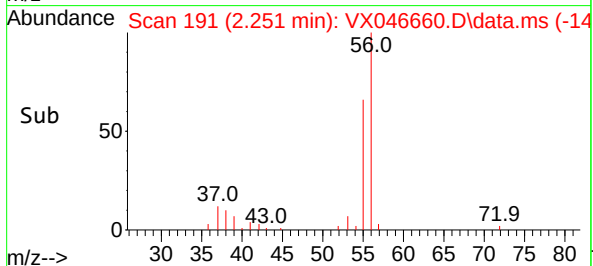
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion: 56 Resp: 9994
Ion Ratio Lower Upper
56 100
55 70.4 56.2 84.4

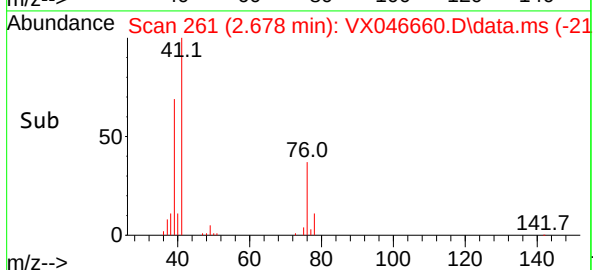
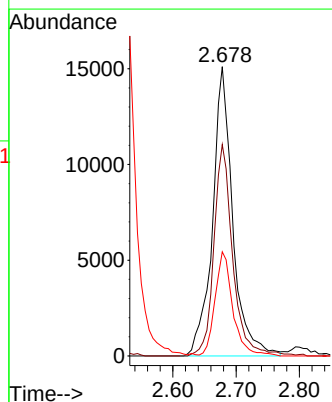
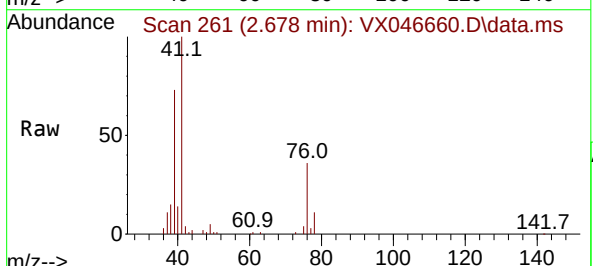
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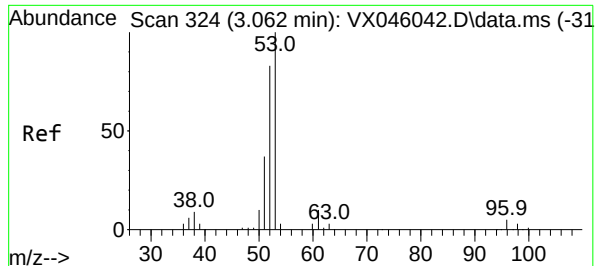
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#14
Allyl chloride
Concen: 16.850 ug/l
RT: 2.678 min Scan# 261
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 41 Resp: 33622
Ion Ratio Lower Upper
41 100
39 68.2 60.6 90.8
76 31.7 24.9 37.3





#15

Acrylonitrile

Concen: 91.913 ug/l

RT: 3.074 min Scan# 31

Delta R.T. -0.007 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 53 Resp: 5871

Ion Ratio Lower Upper

53 100

52 82.9 65.3 97.9

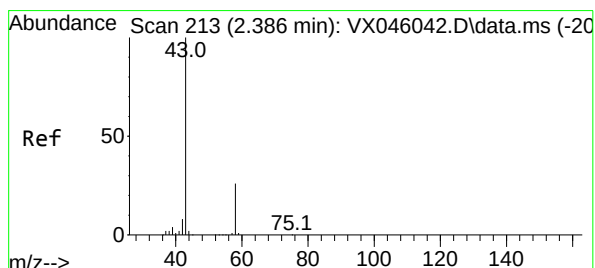
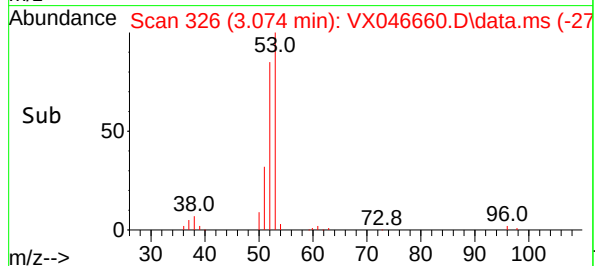
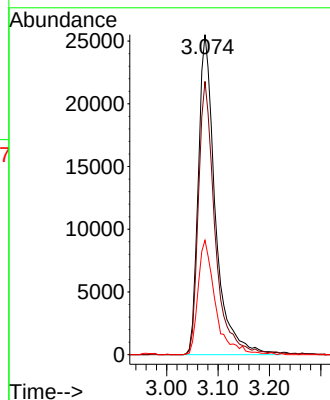
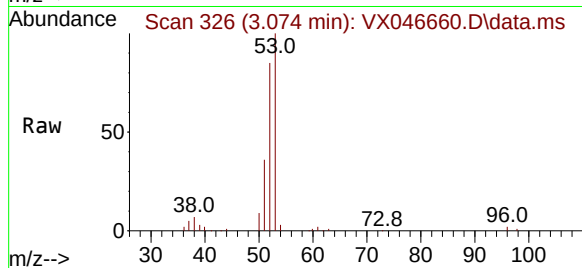
51 36.7 29.8 44.8

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#16

Acetone

Concen: 90.187 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX046660.D

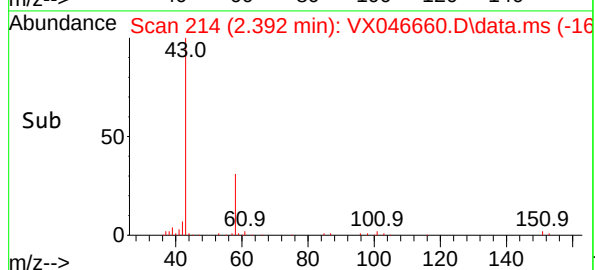
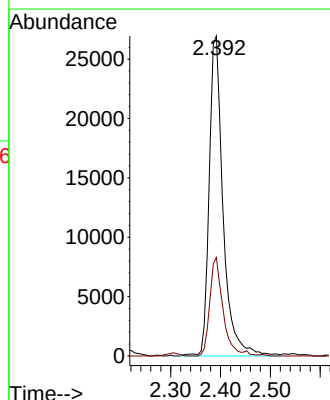
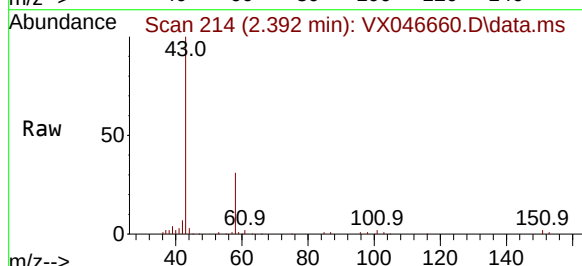
Acq: 12 Jun 2025 13:38

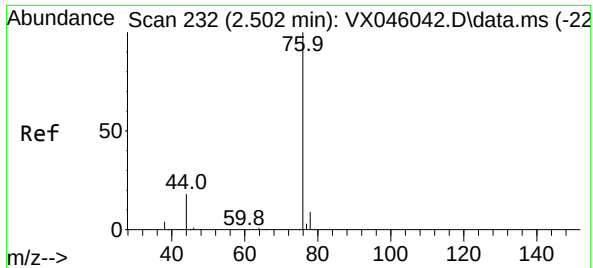
Tgt Ion: 43 Resp: 52132

Ion Ratio Lower Upper

43 100

58 30.8 21.2 31.8





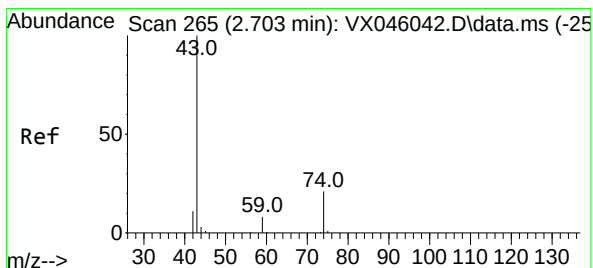
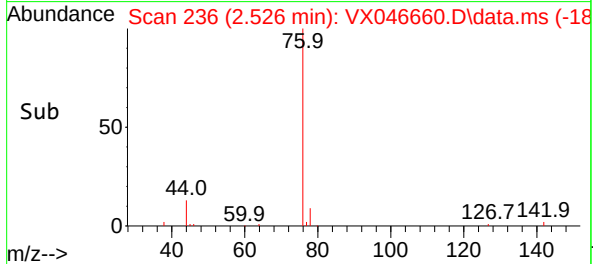
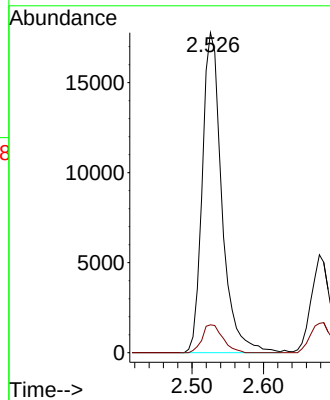
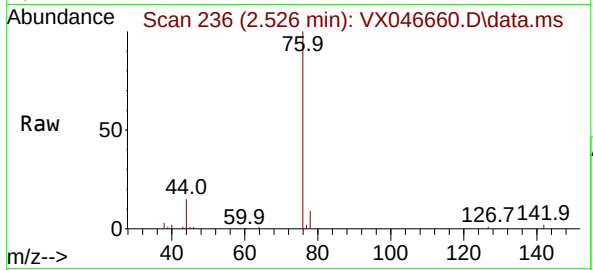
#17
Carbon Disulfide
Concen: 15.809 ug/l
RT: 2.526 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion: 76 Resp: 3380
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4

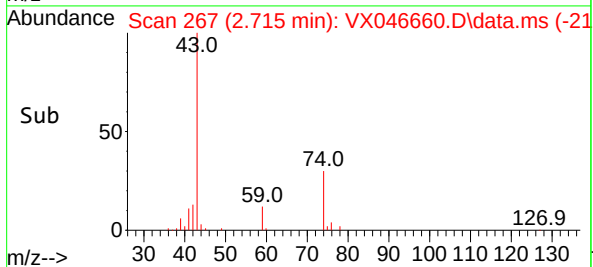
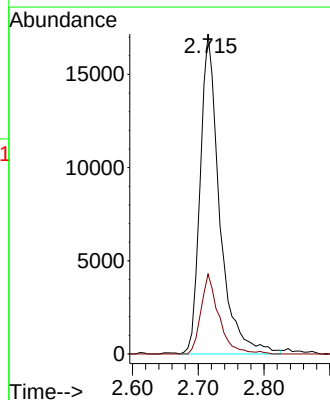
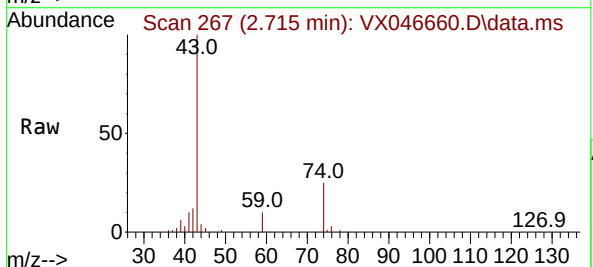
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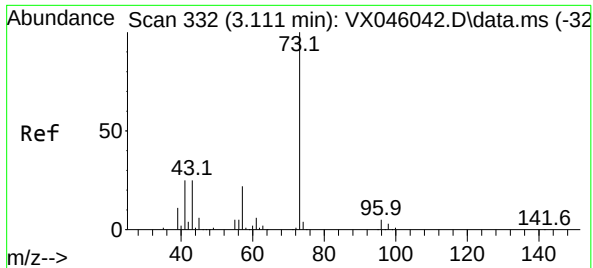
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#18
Methyl Acetate
Concen: 19.427 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 43 Resp: 35232
Ion Ratio Lower Upper
43 100
74 23.1 16.7 25.1





#19

Methyl tert-butyl Ether

Concen: 18.793 ug/l

RT: 3.129 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 73 Resp: 6681

Ion Ratio Lower Upper

73 100

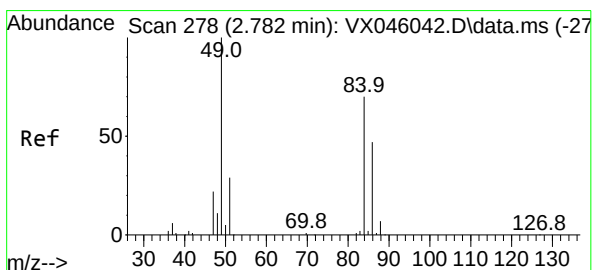
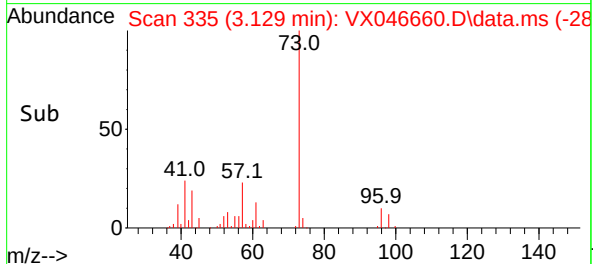
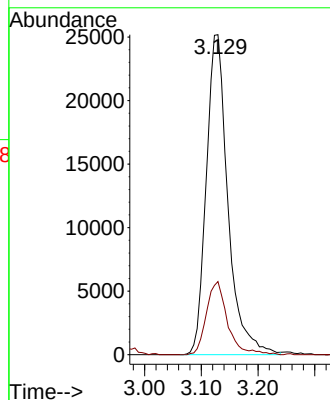
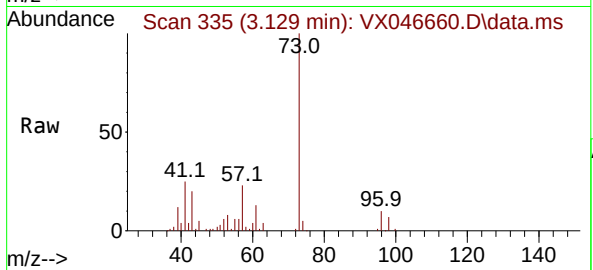
57 22.9 17.7 26.5

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#20

Methylene Chloride

Concen: 17.951 ug/l

RT: 2.800 min Scan# 281

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Tgt Ion: 84 Resp: 21926

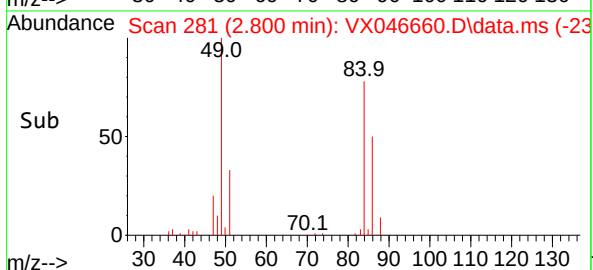
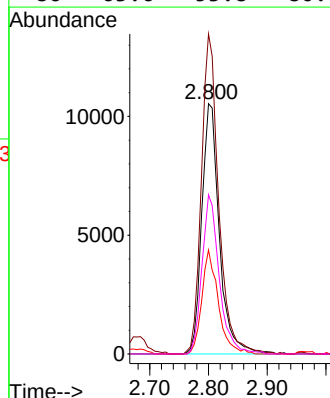
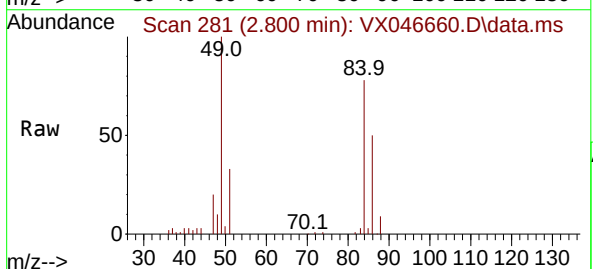
Ion Ratio Lower Upper

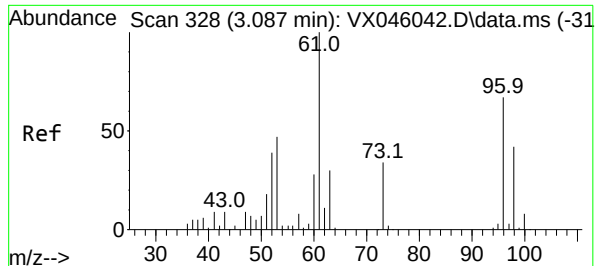
84 100

49 127.9 113.9 170.9

51 41.6 33.5 50.3

86 63.6 53.8 80.8





#21

trans-1,2-Dichloroethene

Concen: 17.227 ug/l

RT: 3.105 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 96 Resp: 1852

Ion Ratio Lower Upper

96 100

61 147.4 119.5 179.3

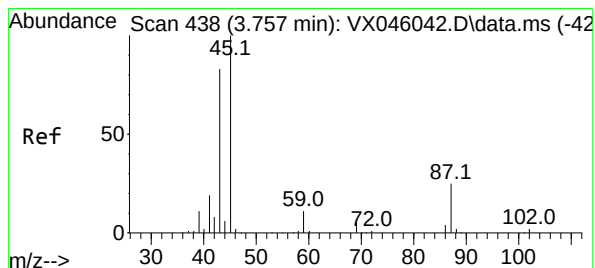
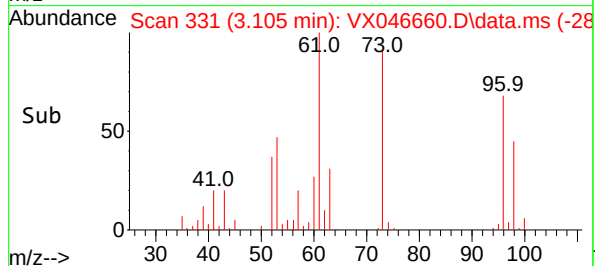
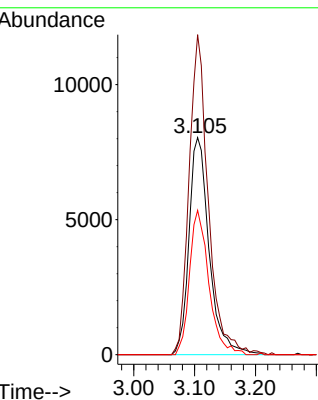
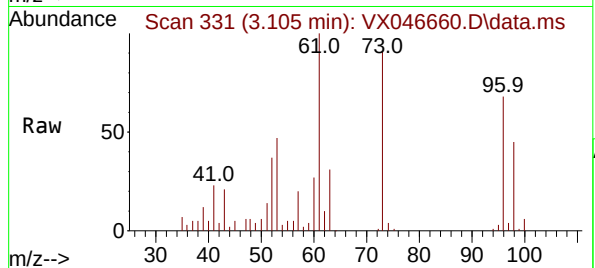
98 66.5 50.0 75.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#22

Diisopropyl ether

Concen: 18.494 ug/l

RT: 3.769 min Scan# 440

Delta R.T. -0.013 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Tgt Ion: 45 Resp: 72754

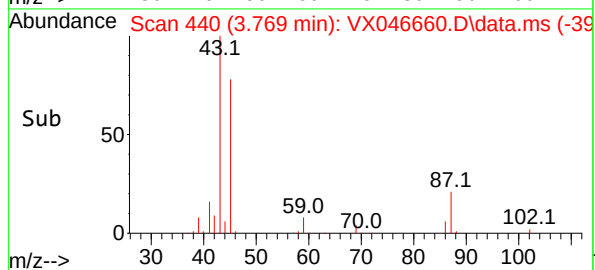
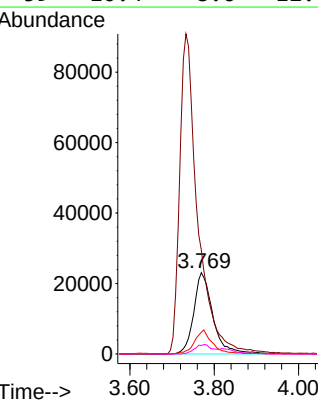
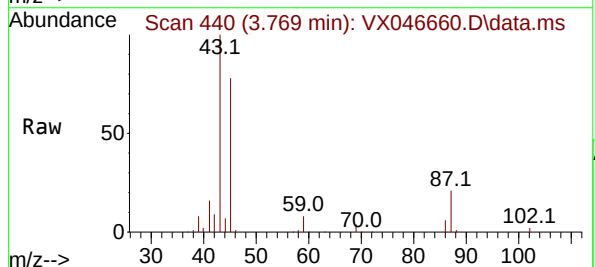
Ion Ratio Lower Upper

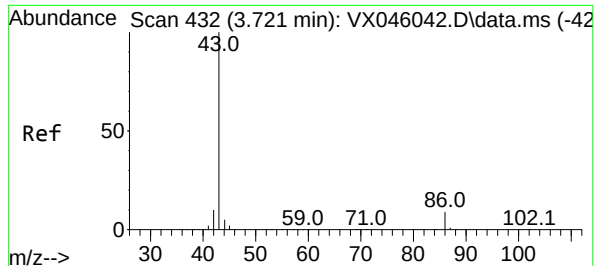
45 100

43 127.2 66.6 100.0#

87 26.8 19.8 29.6

59 10.4 8.6 12.8





#23

Vinyl Acetate

Concen: 89.826 ug/l

RT: 3.733 min Scan# 41

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 43 Resp: 27282

Ion Ratio Lower Upper

43 100

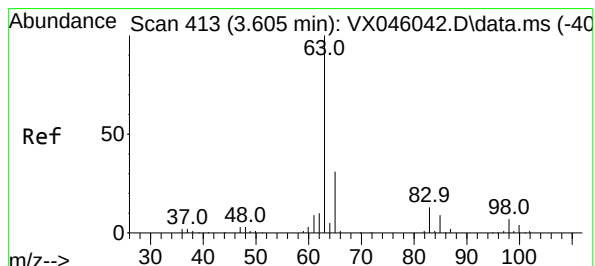
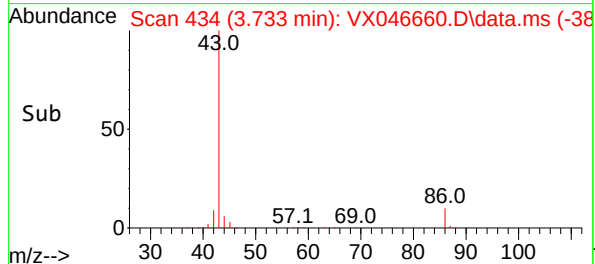
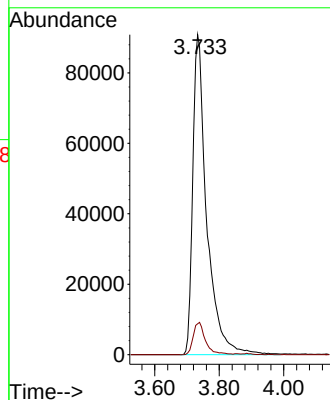
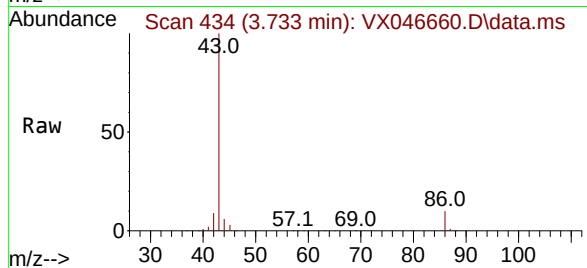
86 9.6 7.5 11.3

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#24

1,1-Dichloroethane

Concen: 17.753 ug/l

RT: 3.623 min Scan# 416

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

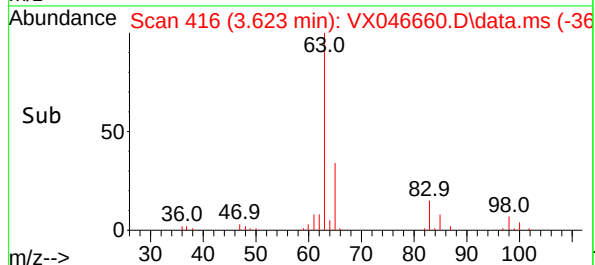
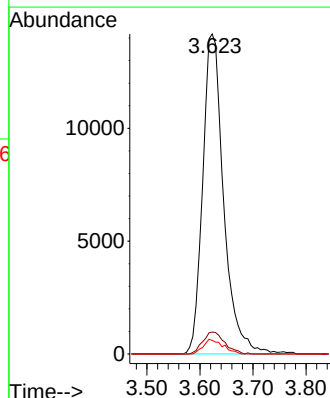
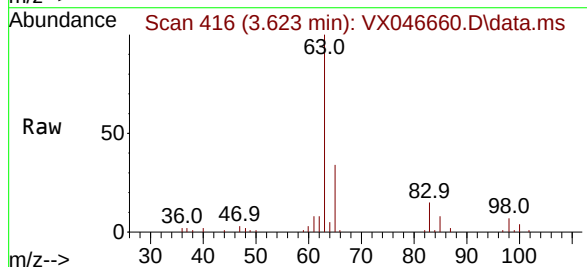
Tgt Ion: 63 Resp: 38925

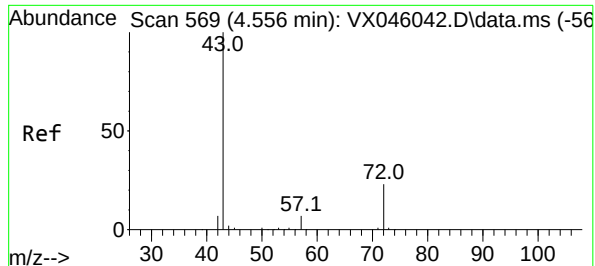
Ion Ratio Lower Upper

63 100

98 6.8 3.6 10.8

100 4.2 2.1 6.3





#25

2-Butanone

Concen: 88.008 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 43 Resp: 74592

Ion Ratio Lower Upper

43 100

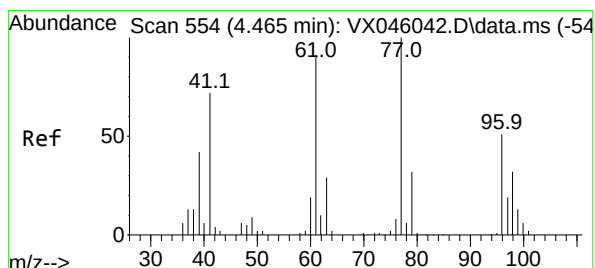
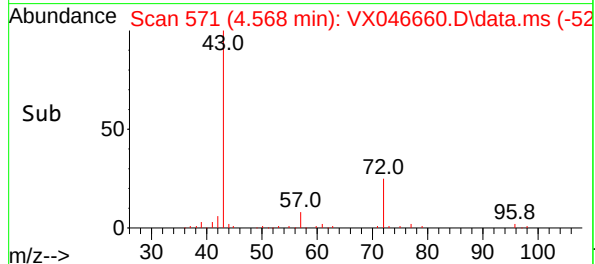
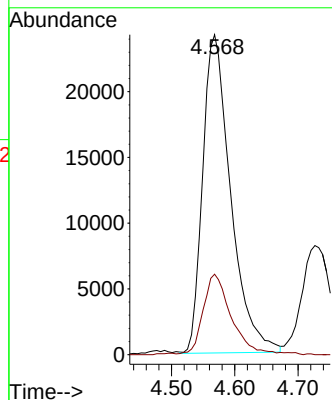
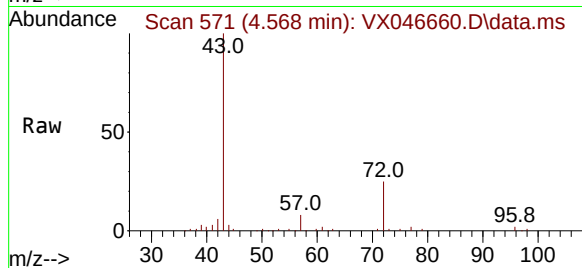
72 25.0 18.4 27.6

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#26

2,2-Dichloropropane

Concen: 18.213 ug/l

RT: 4.483 min Scan# 557

Delta R.T. -0.012 min

Lab File: VX046660.D

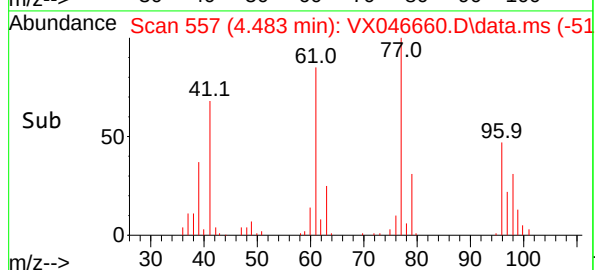
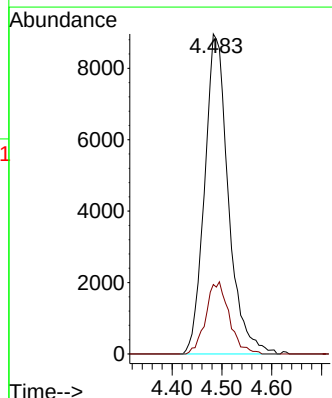
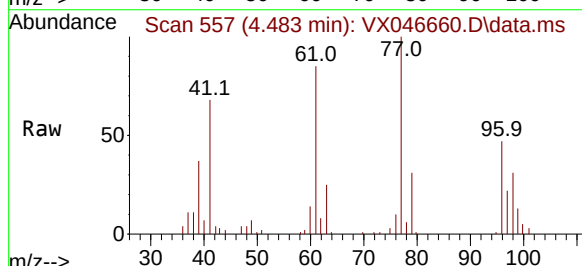
Acq: 12 Jun 2025 13:38

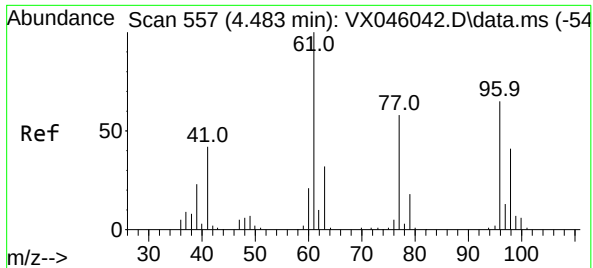
Tgt Ion: 77 Resp: 29645

Ion Ratio Lower Upper

77 100

97 22.2 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 18.050 ug/l

RT: 4.501 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 96 Resp: 2389

Ion Ratio Lower Upper

96 100

61 152.8 0.0 322.8

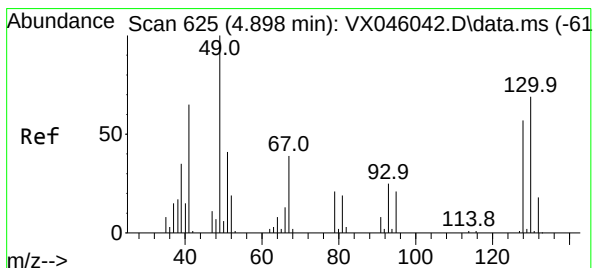
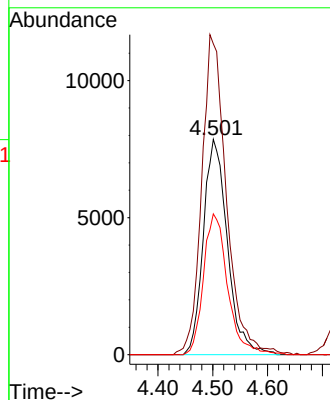
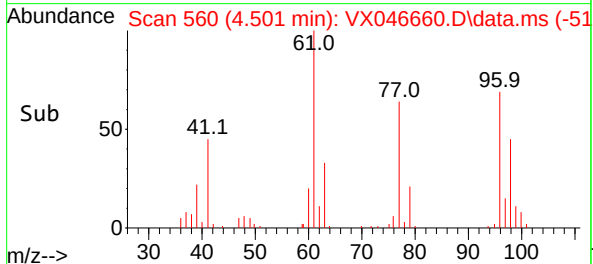
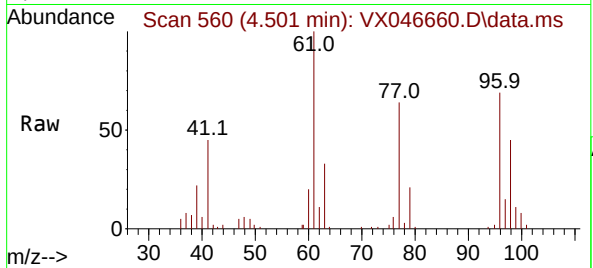
98 65.9 0.0 129.0

Manual Integrations

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Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#28

Bromochloromethane

Concen: 24.953 ug/l

RT: 4.909 min Scan# 627

Delta R.T. -0.007 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

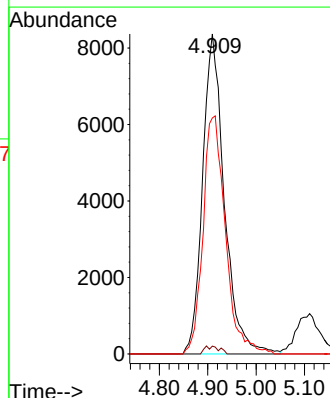
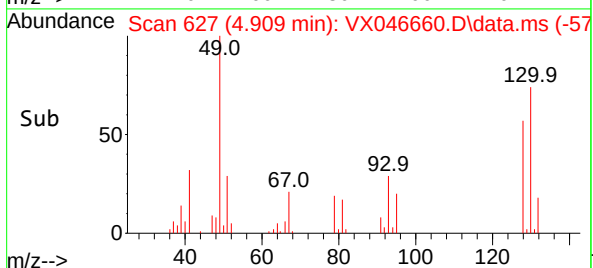
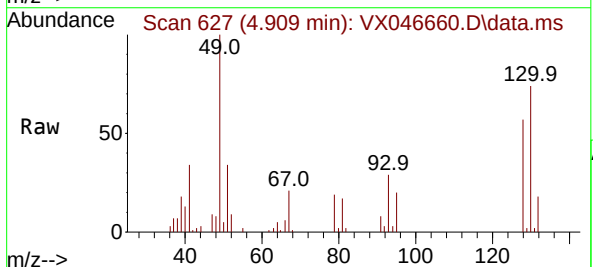
Tgt Ion: 49 Resp: 26095

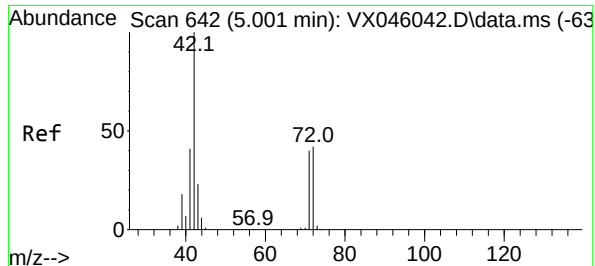
Ion Ratio Lower Upper

49 100

129 0.6 0.0 4.0

130 76.8 56.2 84.2





#29

Tetrahydrofuran

Concen: 85.463 ug/l

RT: 5.013 min Scan# 64

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 42 Resp: 4574

Ion Ratio Lower Upper

42 100

72 45.3 33.7 50.5

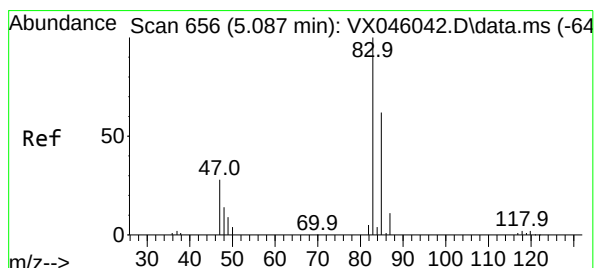
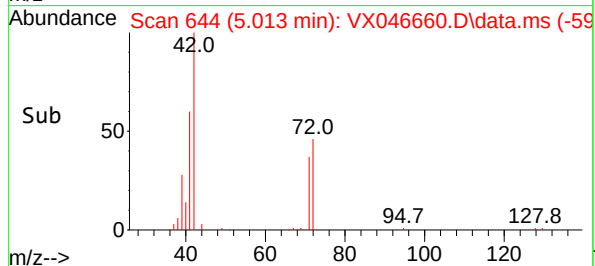
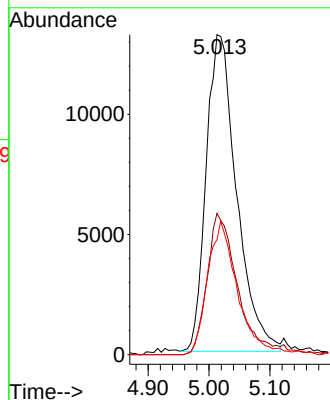
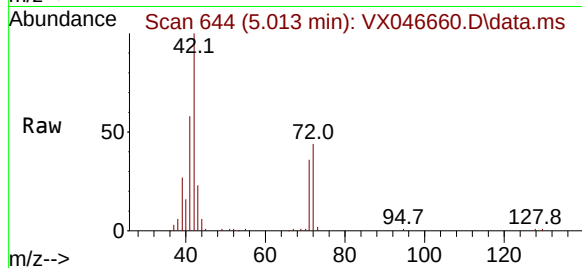
71 41.3 31.4 47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#30

Chloroform

Concen: 18.271 ug/l

RT: 5.105 min Scan# 659

Delta R.T. -0.006 min

Lab File: VX046660.D

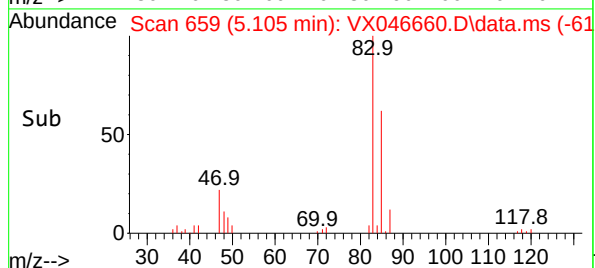
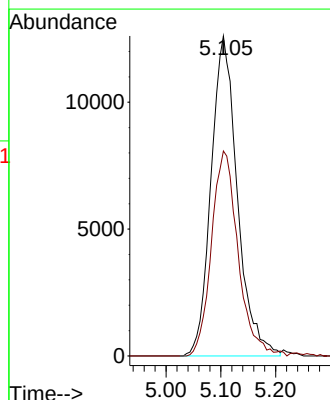
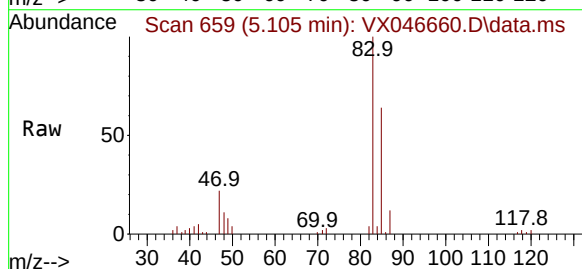
Acq: 12 Jun 2025 13:38

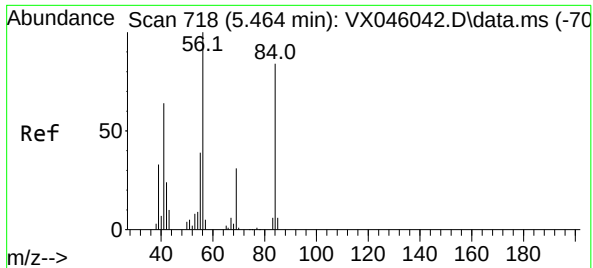
Tgt Ion: 83 Resp: 41974

Ion Ratio Lower Upper

83 100

85 64.1 49.3 73.9





#31

Cyclohexane

Concen: 16.807 ug/l

RT: 5.476 min Scan# 718

Delta R.T. -0.013 min

Lab File: VX046660.D

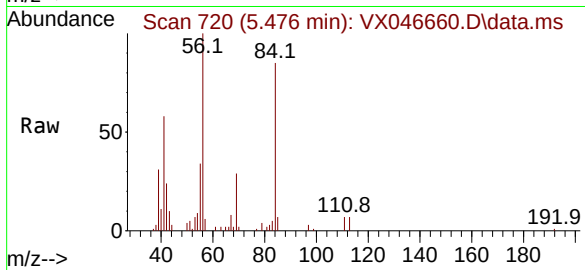
Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01



Tgt Ion: 56 Resp: 29749

Ion Ratio Lower Upper

56 100

69 29.2 24.4 36.6

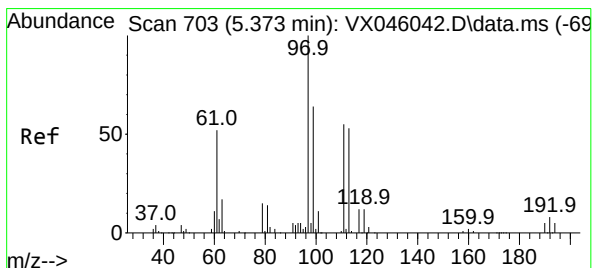
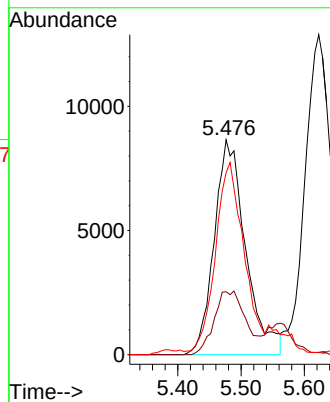
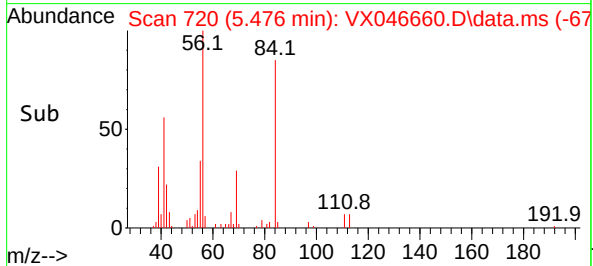
84 82.6 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#32

1,1,1-Trichloroethane

Concen: 17.821 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

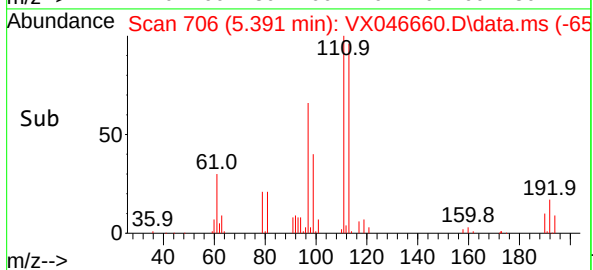
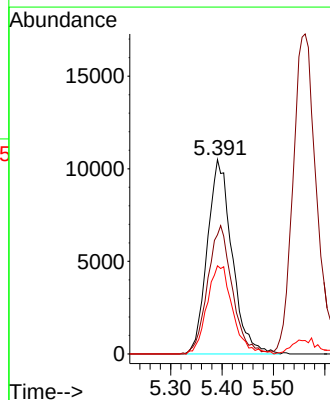
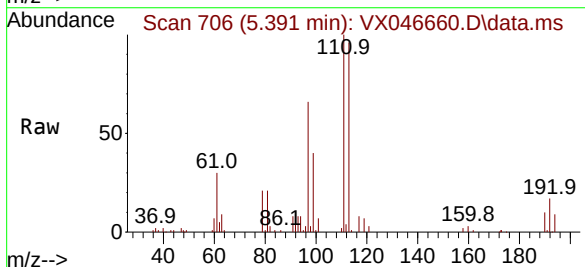
Tgt Ion: 97 Resp: 35020

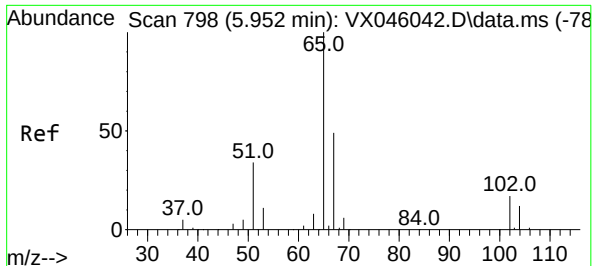
Ion Ratio Lower Upper

97 100

99 65.6 51.8 77.6

61 47.0 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 41.517 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 65 Resp: 63210

Ion Ratio Lower Upper

65 100

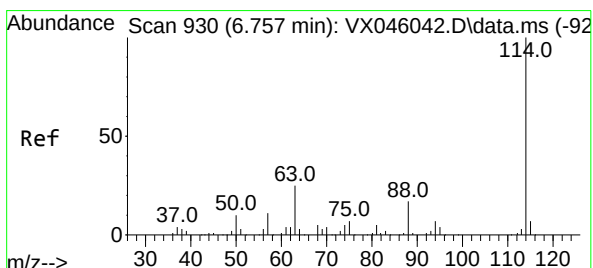
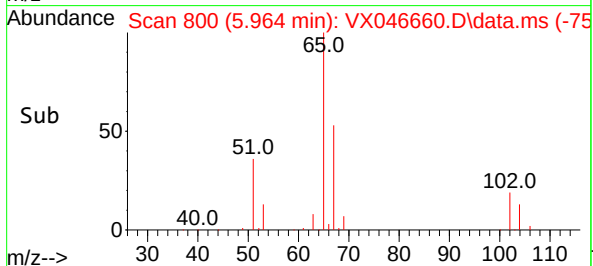
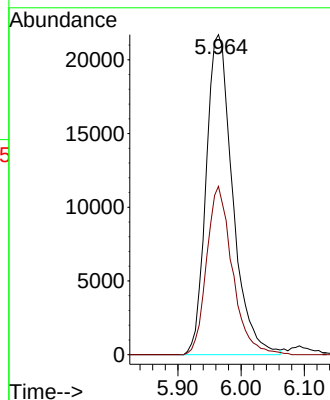
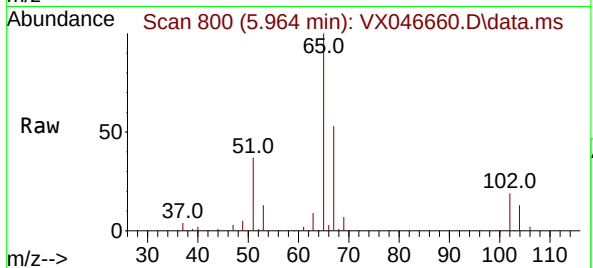
67 51.2 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

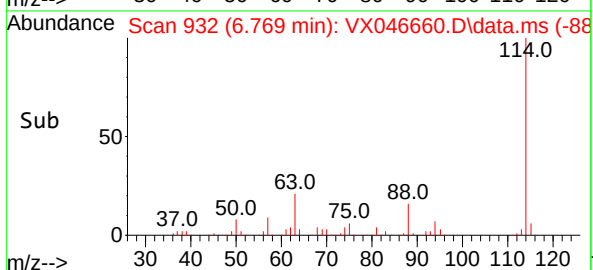
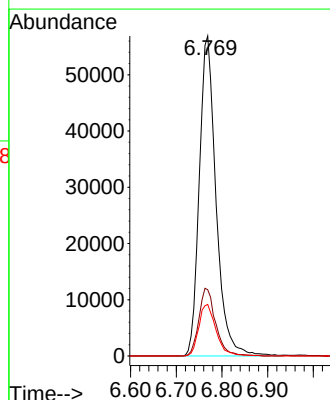
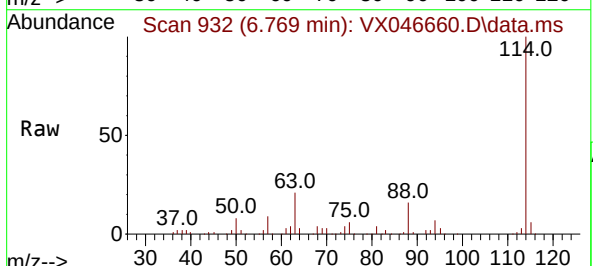
Tgt Ion:114 Resp: 144622

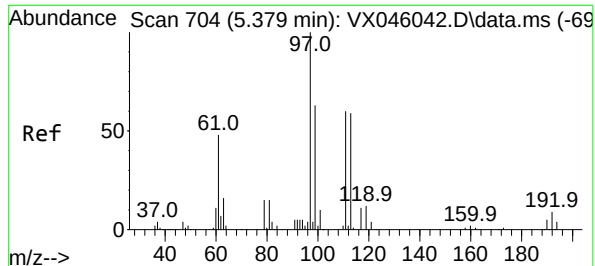
Ion Ratio Lower Upper

114 100

63 20.7 0.0 49.2

88 16.1 0.0 33.6





#35

Dibromofluoromethane

Concen: 47.973 ug/l

RT: 5.397 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion:113 Resp: 5102

Ion Ratio Lower Upper

113 100

111 103.1 83.1 124.7

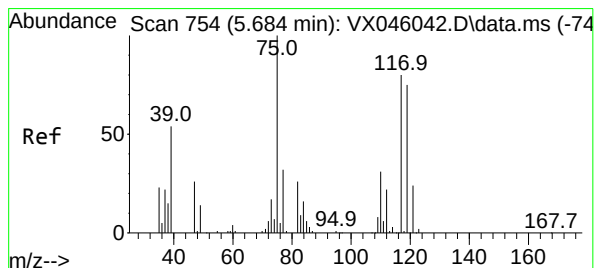
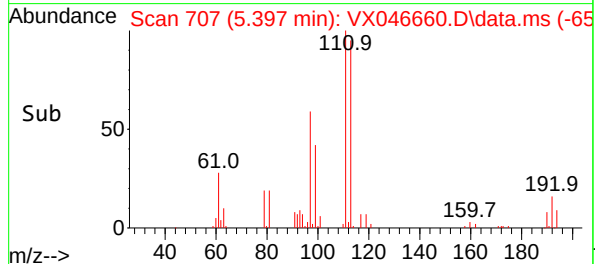
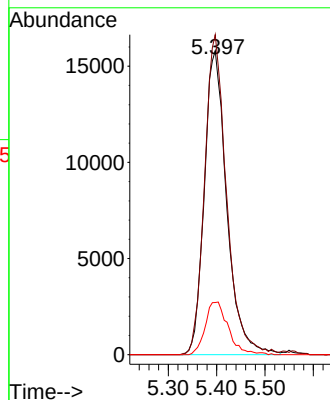
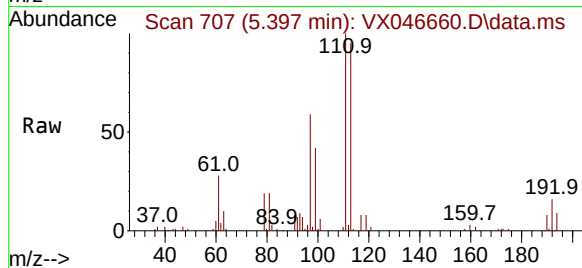
192 17.8 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#36

1,1-Dichloropropene

Concen: 16.997 ug/l

RT: 5.702 min Scan# 757

Delta R.T. -0.012 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

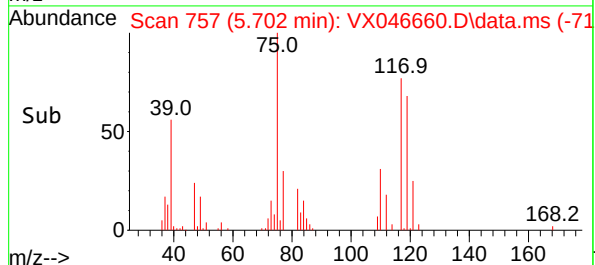
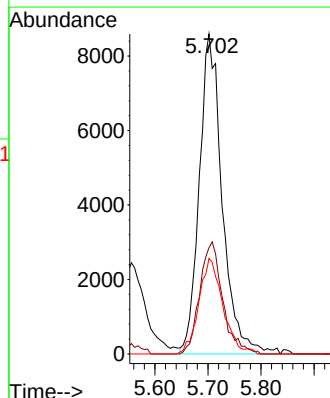
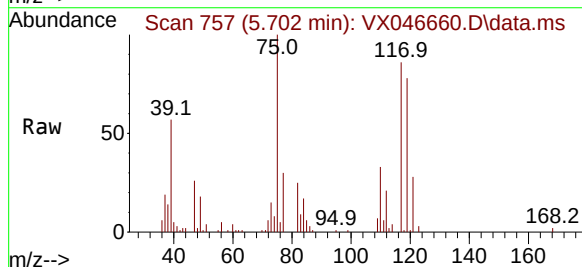
Tgt Ion: 75 Resp: 25822

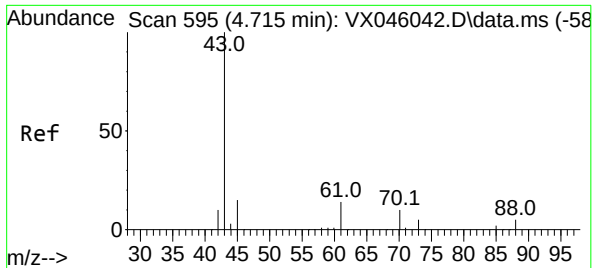
Ion Ratio Lower Upper

75 100

110 35.0 16.3 48.9

77 31.2 24.3 36.5





#37

Ethyl Acetate

Concen: 19.954 ug/l

RT: 4.727 min Scan# 595

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 43 Resp: 29586

Ion Ratio Lower Upper

43 100

61 12.3 10.3 15.5

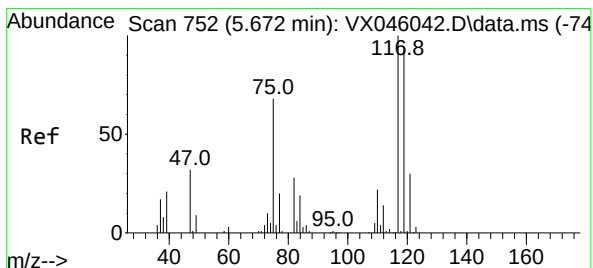
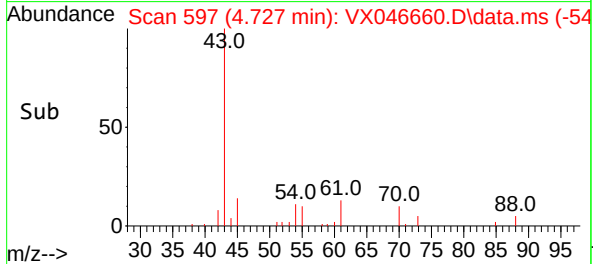
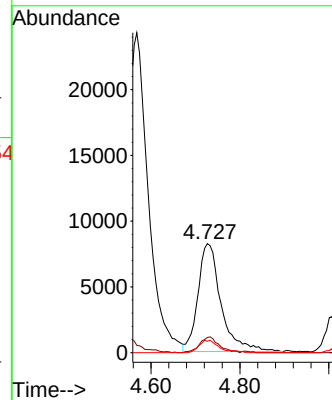
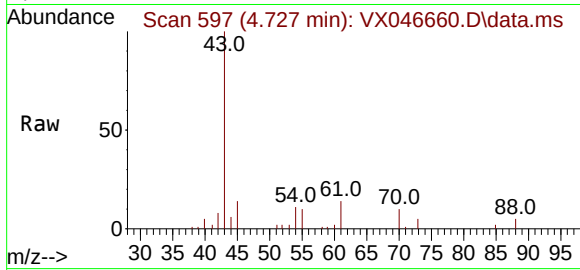
70 10.0 7.9 11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#38

Carbon Tetrachloride

Concen: 17.420 ug/l

RT: 5.690 min Scan# 755

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

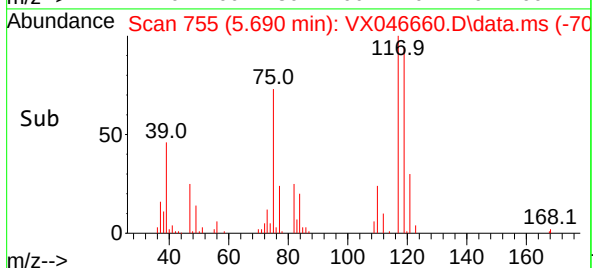
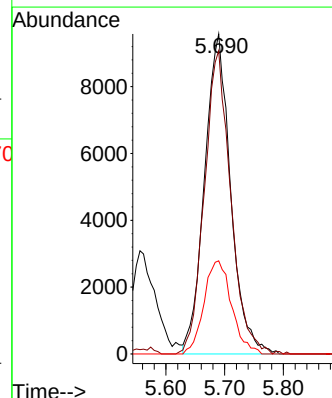
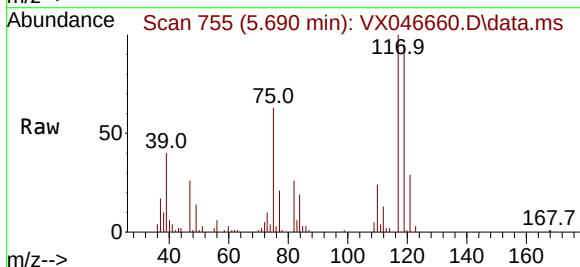
Tgt Ion:117 Resp: 29642

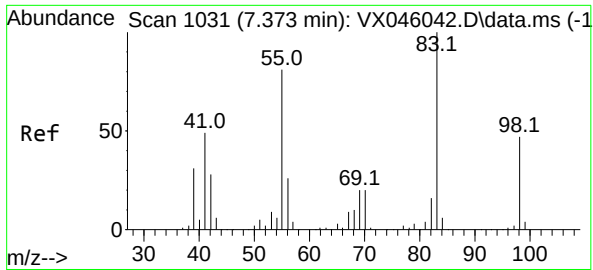
Ion Ratio Lower Upper

117 100

119 94.8 75.2 112.8

121 29.1 24.2 36.4





#39

Methylcyclohexane

Concen: 16.376 ug/l

RT: 7.385 min Scan# 1033

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 83 Resp: 2936

Ion Ratio Lower Upper

83 100

55 86.3 64.7 97.1

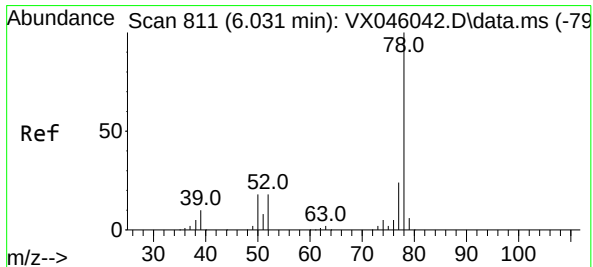
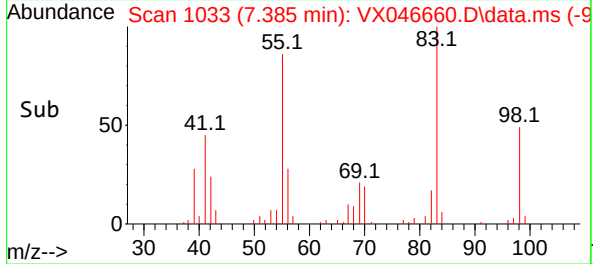
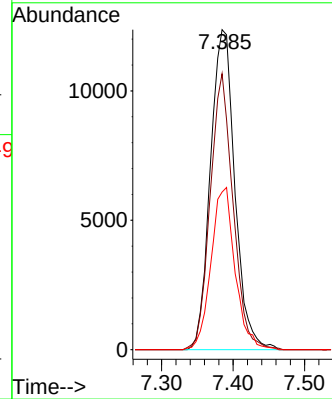
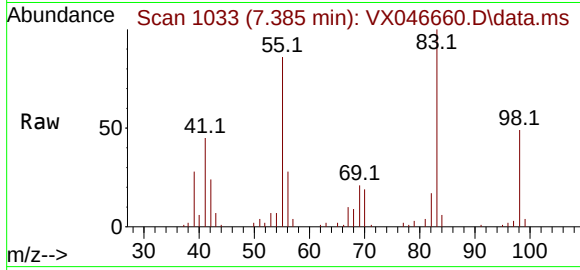
98 49.3 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#40

Benzene

Concen: 18.661 ug/l

RT: 6.049 min Scan# 814

Delta R.T. -0.007 min

Lab File: VX046660.D

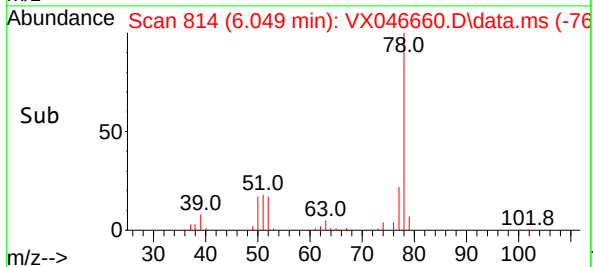
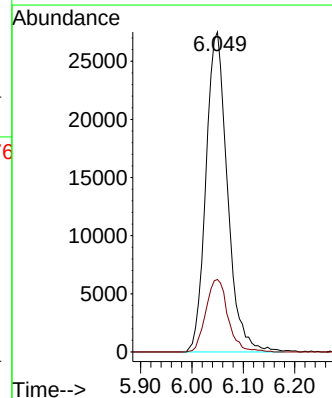
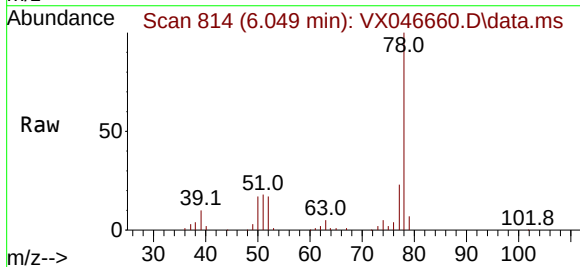
Acq: 12 Jun 2025 13:38

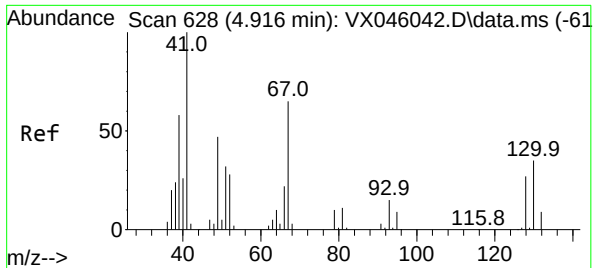
Tgt Ion: 78 Resp: 79810

Ion Ratio Lower Upper

78 100

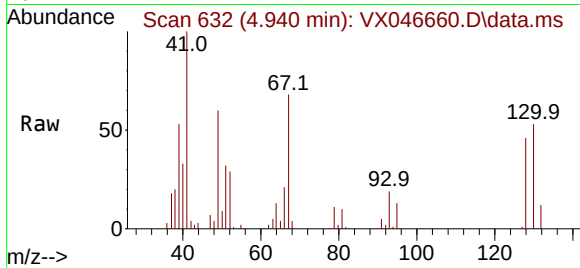
77 22.7 19.0 28.4





#41
Methacrylonitrile
Concen: 17.507 ug/l
RT: 4.940 min Scan# 612
Delta R.T. 0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

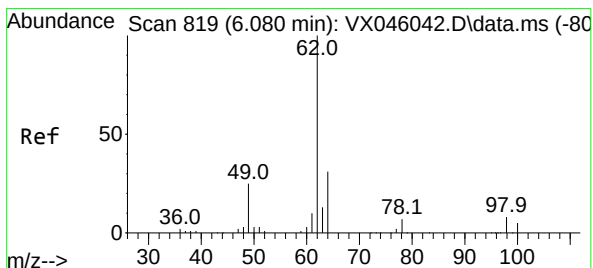
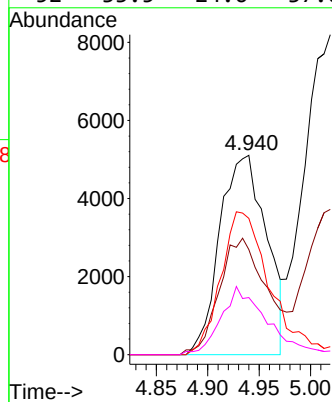
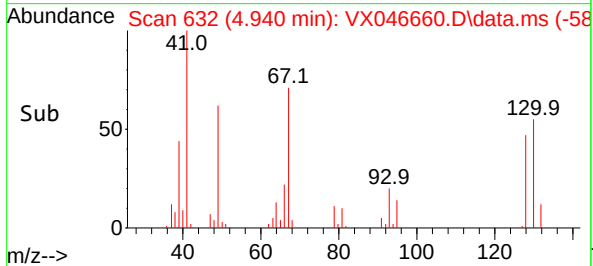
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion: 41 Resp: 16120
Ion Ratio Lower Upper
41 100
39 59.4 47.2 70.8
67 76.7 50.7 76.1
52 33.5 24.6 37.0

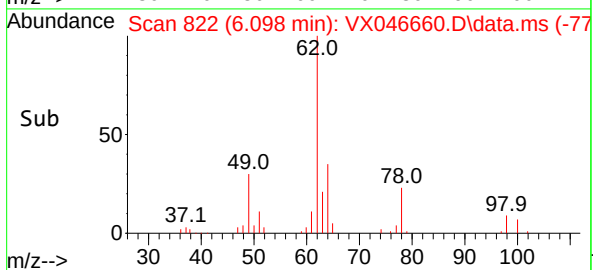
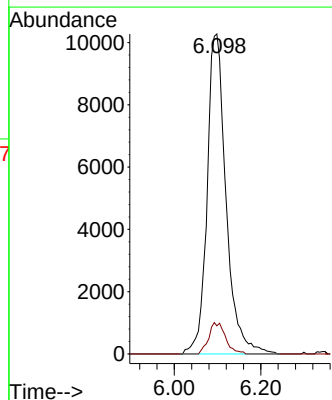
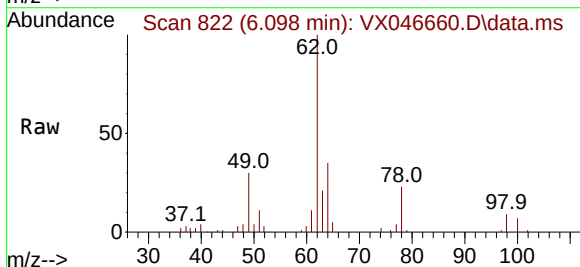
Manual Integrations
APPROVED

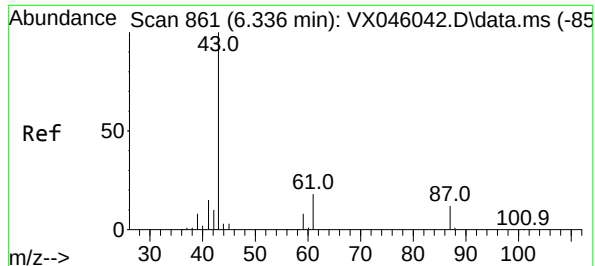
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#42
1,2-Dichloroethane
Concen: 17.565 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 62 Resp: 31253
Ion Ratio Lower Upper
62 100
98 8.7 0.0 15.2





#43

Isopropyl Acetate

Concen: 18.125 ug/l

RT: 6.348 min Scan# 80

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 43 Resp: 4685

Ion Ratio Lower Upper

43 100

61 20.2 14.3 21.5

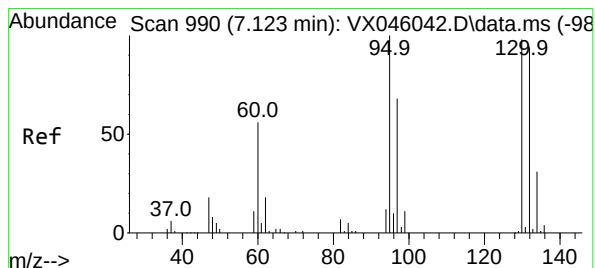
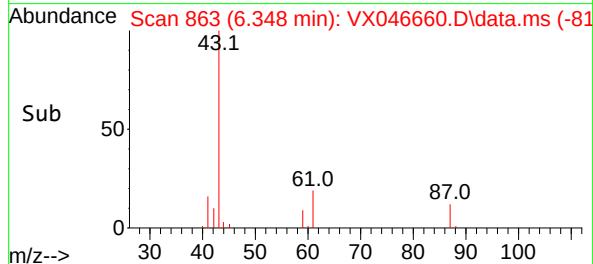
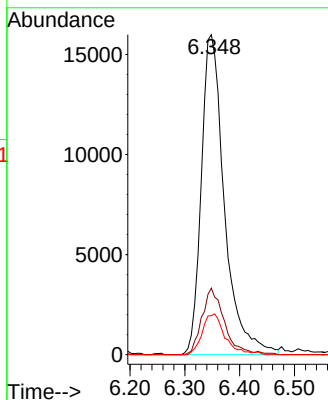
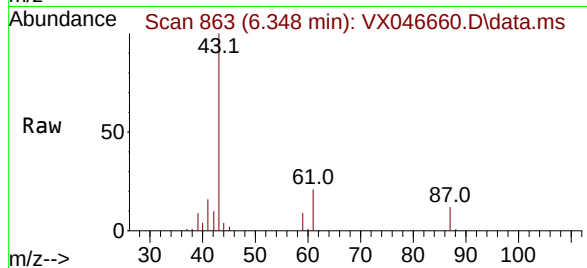
87 12.5 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#44

Trichloroethene

Concen: 18.526 ug/l

RT: 7.129 min Scan# 991

Delta R.T. -0.006 min

Lab File: VX046660.D

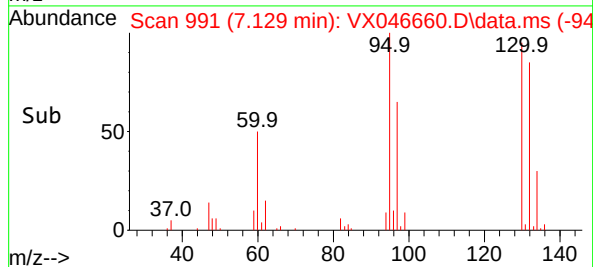
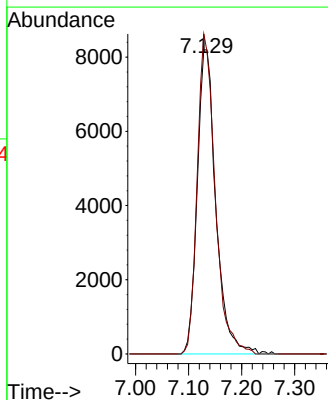
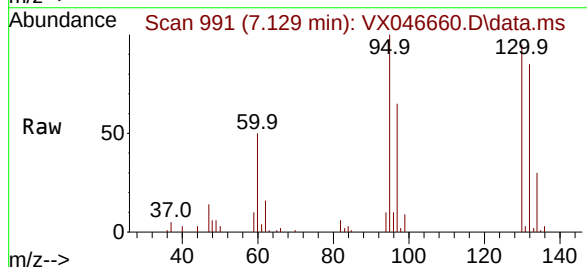
Acq: 12 Jun 2025 13:38

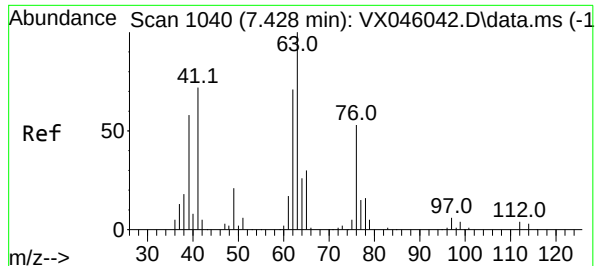
Tgt Ion:130 Resp: 20132

Ion Ratio Lower Upper

130 100

95 105.2 0.0 204.2





#45

1,2-Dichloropropane

Concen: 19.396 ug/l

RT: 7.433 min Scan# 1041

Delta R.T. -0.007 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 63 Resp: 2141

Ion Ratio Lower Upper

63 100

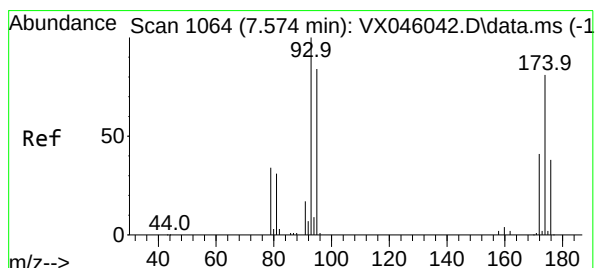
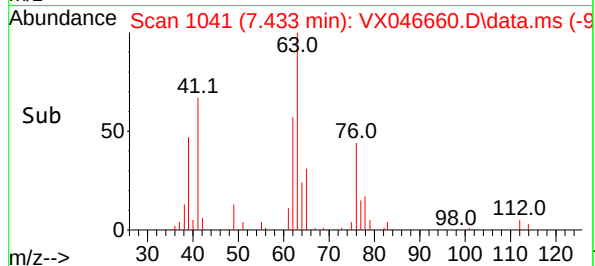
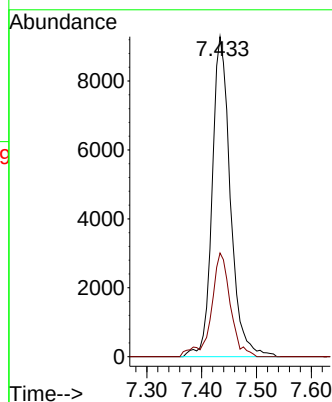
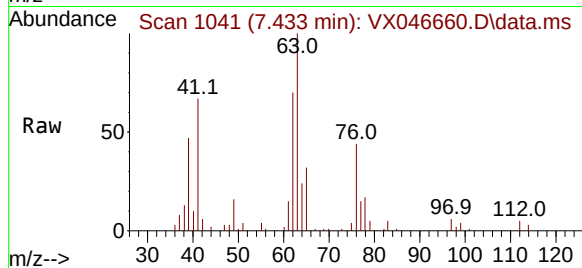
65 32.4 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#46

Dibromomethane

Concen: 18.933 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

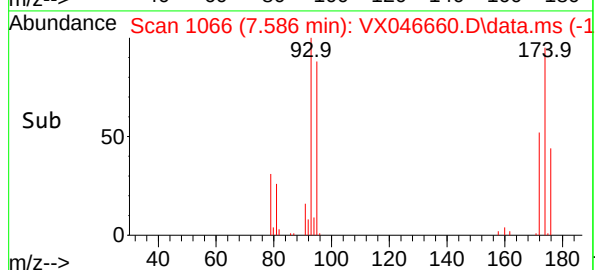
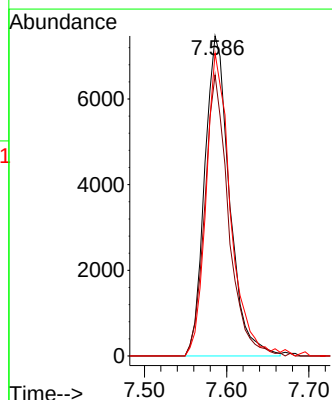
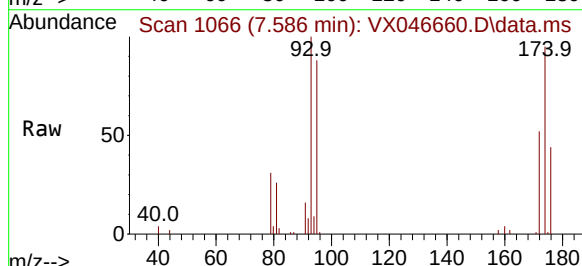
Tgt Ion: 93 Resp: 15723

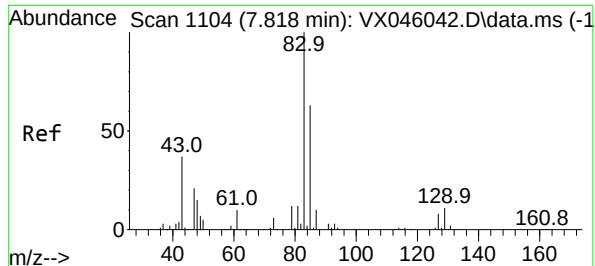
Ion Ratio Lower Upper

93 100

95 84.1 65.6 98.4

174 93.3 68.2 102.2





#47

Bromodichloromethane

Concen: 19.622 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

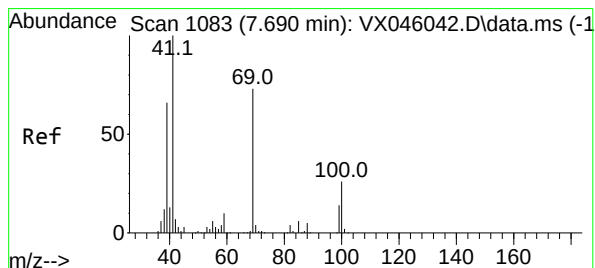
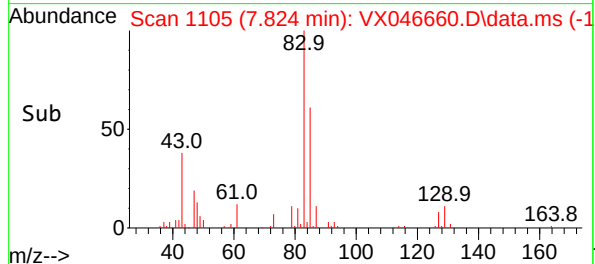
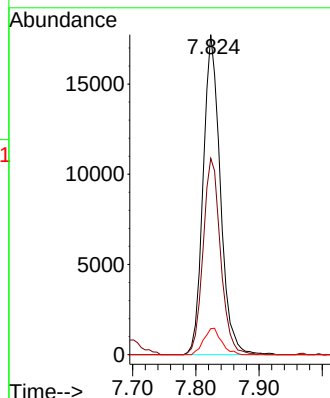
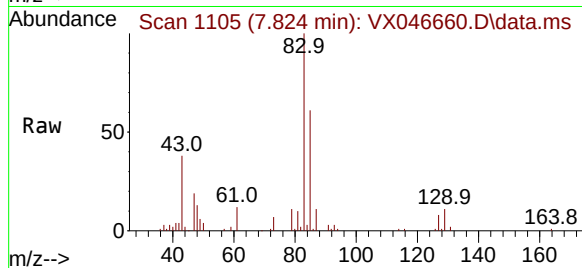
Tgt Ion:	83	Resp:	33500
Ion	Ratio	Lower	Upper
83	100		
85	61.3	50.5	75.7
127	8.2	6.5	9.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#48

Methyl methacrylate

Concen: 18.316 ug/l

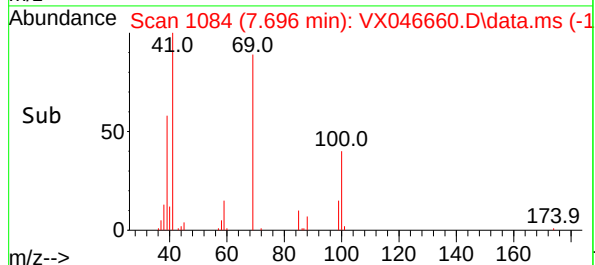
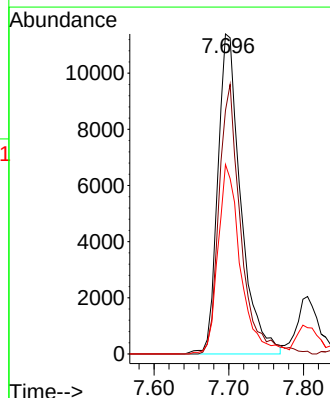
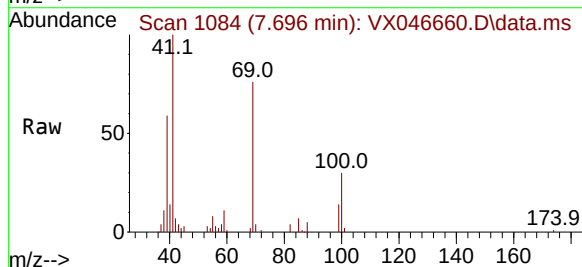
RT: 7.696 min Scan# 1084

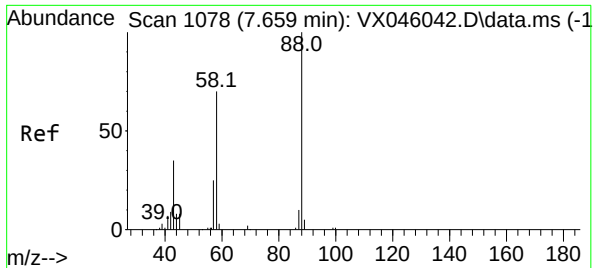
Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Tgt Ion:	41	Resp:	24360
Ion	Ratio	Lower	Upper
41	100		
69	79.8	58.5	87.7
39	58.4	51.7	77.5





#49

1,4-Dioxane

Concen: 382.003 ug/l

RT: 7.659 min Scan# 1078

Delta R.T. -0.012 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 88 Resp: 6794

Ion Ratio Lower Upper

88 100

43 40.2 33.4 50.2

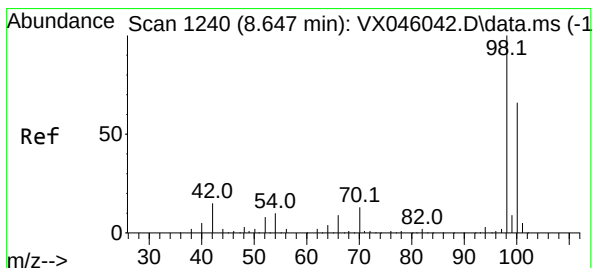
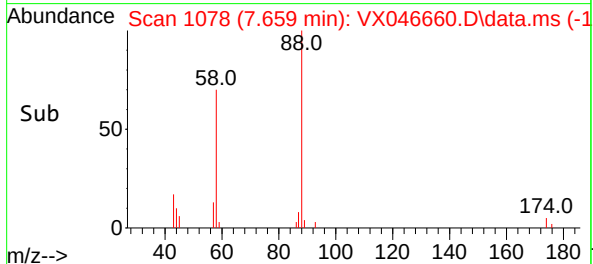
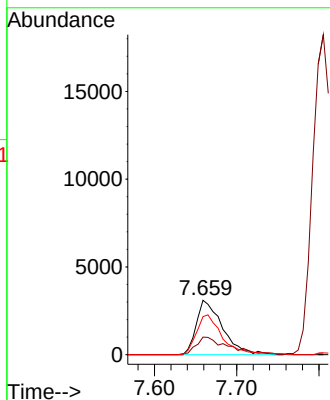
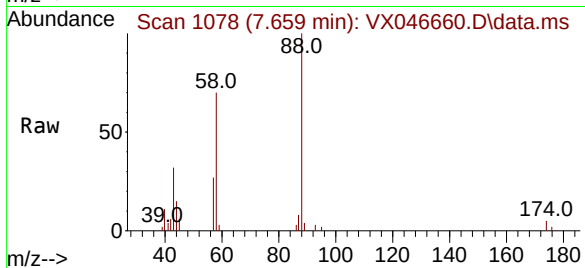
58 73.0 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#50

Toluene-d8

Concen: 47.755 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX046660.D

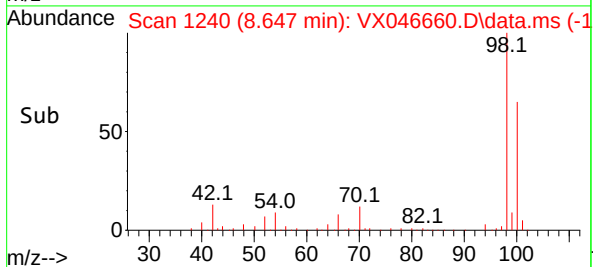
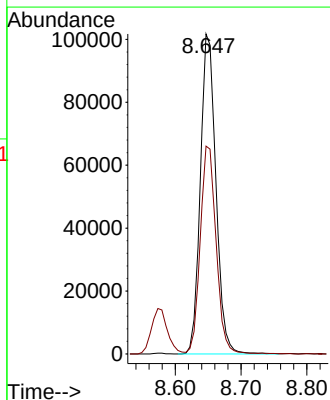
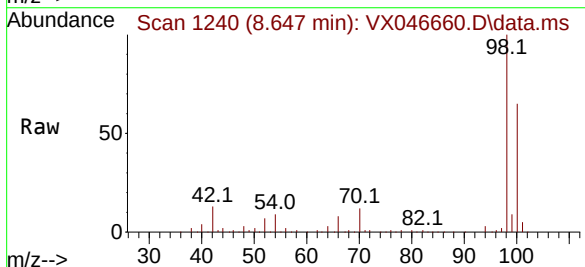
Acq: 12 Jun 2025 13:38

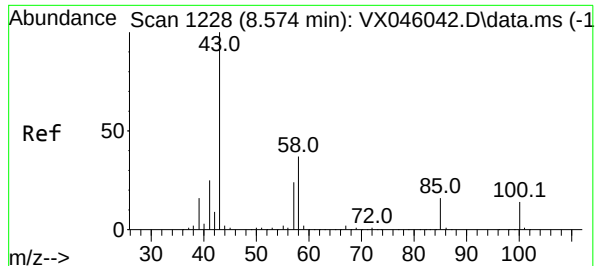
Tgt Ion: 98 Resp: 167446

Ion Ratio Lower Upper

98 100

100 66.5 53.5 80.3





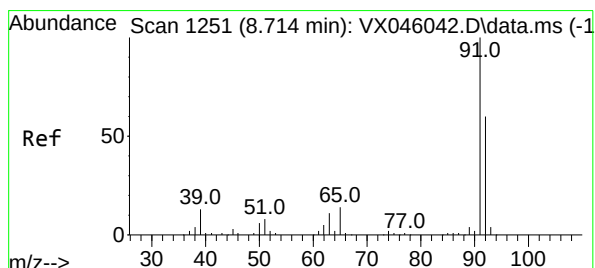
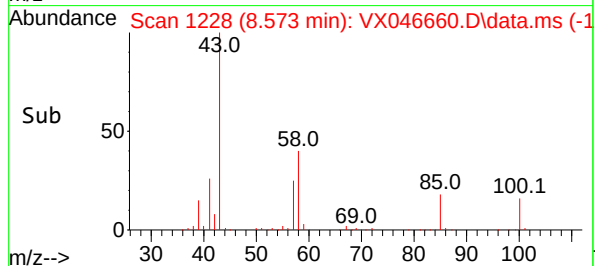
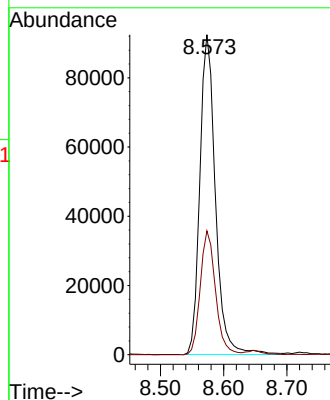
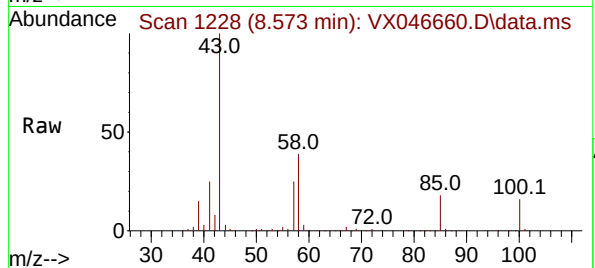
#51
4-Methyl-2-Pentanone
Concen: 96.503 ug/l
RT: 8.573 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion: 43 Resp: 158510
Ion Ratio Lower Upper
43 100
58 38.0 28.9 43.3

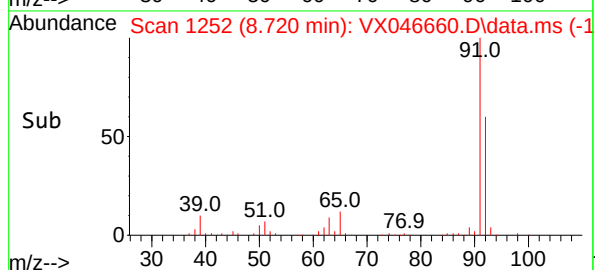
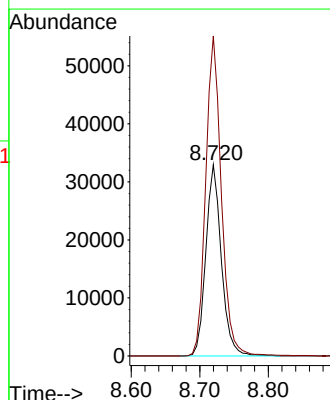
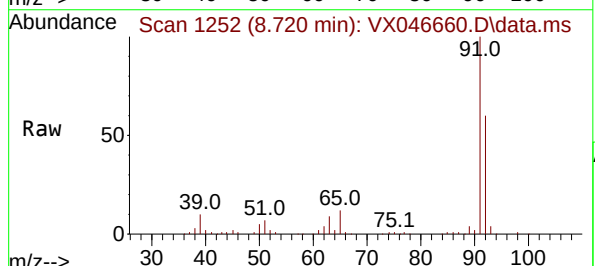
Manual Integrations
APPROVED

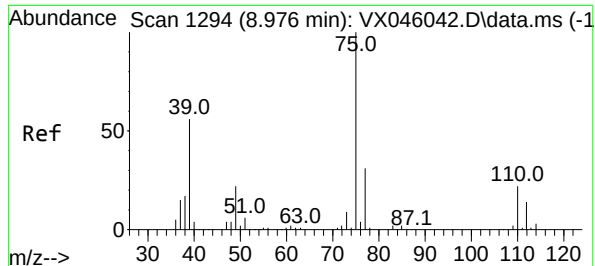
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#52
Toluene
Concen: 19.796 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 92 Resp: 52013
Ion Ratio Lower Upper
92 100
91 168.5 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 19.193 ug/l

RT: 8.982 min Scan# 1195

Delta R.T. -0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 75 Resp: 2938

Ion Ratio Lower Upper

75 100

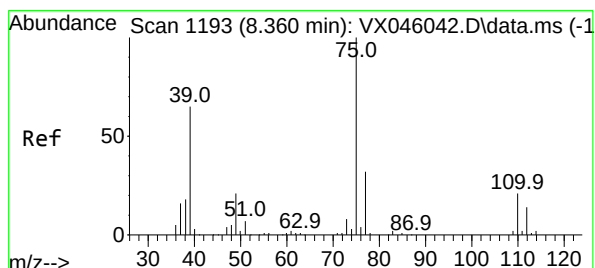
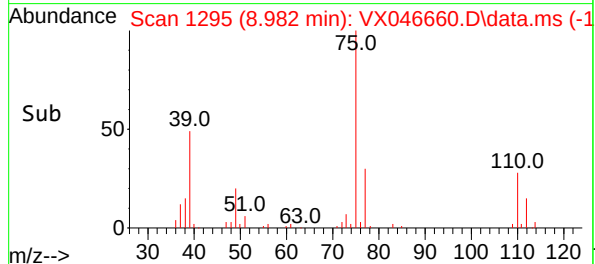
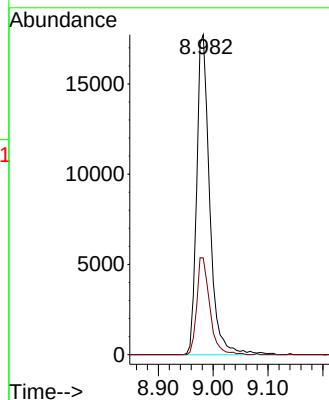
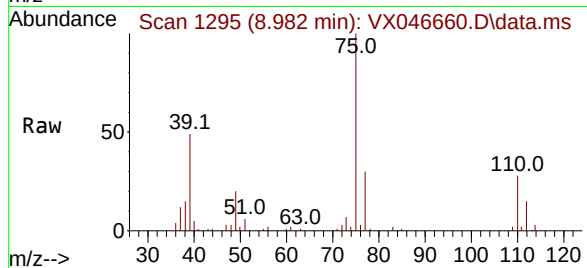
77 30.2 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#54

cis-1,3-Dichloropropene

Concen: 19.161 ug/l

RT: 8.372 min Scan# 1195

Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

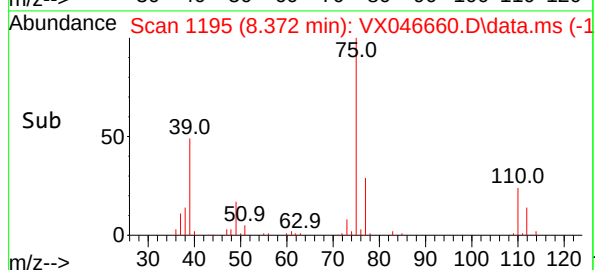
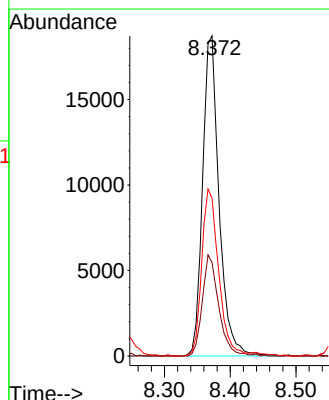
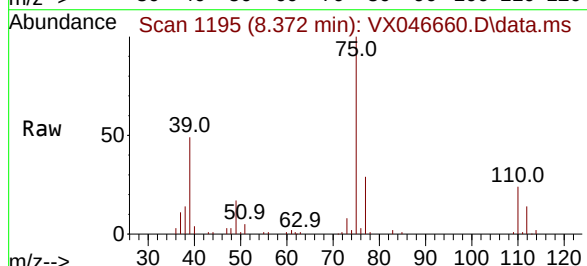
Tgt Ion: 75 Resp: 32617

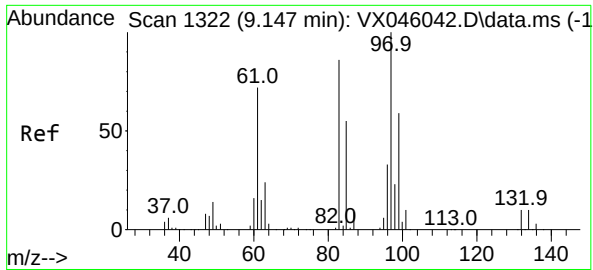
Ion Ratio Lower Upper

75 100

77 29.1 25.4 38.0

39 49.3 52.2 78.4#





#55

1,1,2-Trichloroethane

Concen: 20.618 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 97 Resp: 21748

Ion Ratio Lower Upper

97 100

83 86.9 69.0 103.6

85 55.9 44.3 66.5

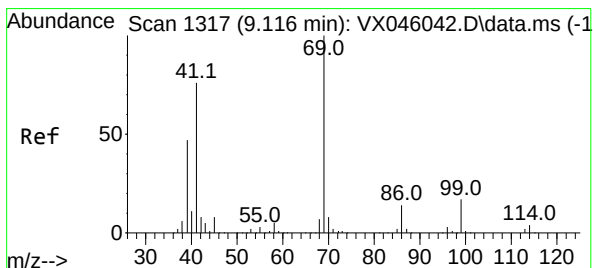
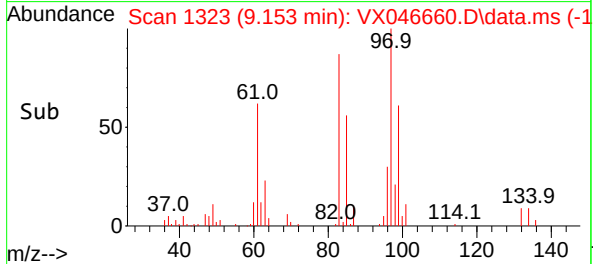
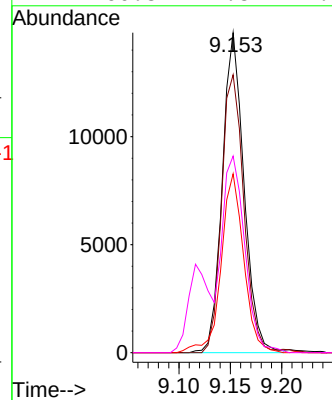
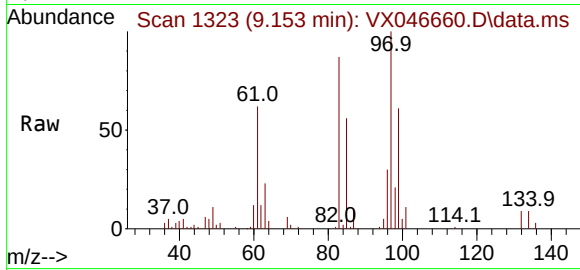
99 60.8 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#56

Ethyl methacrylate

Concen: 19.903 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

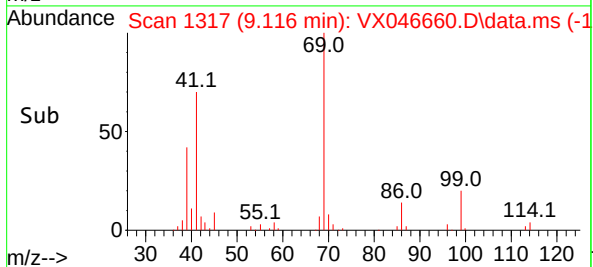
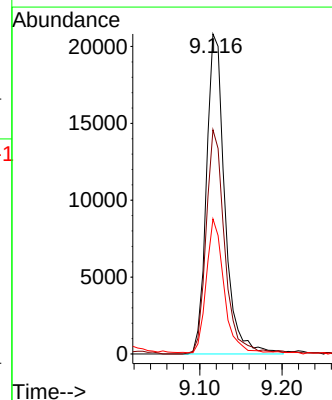
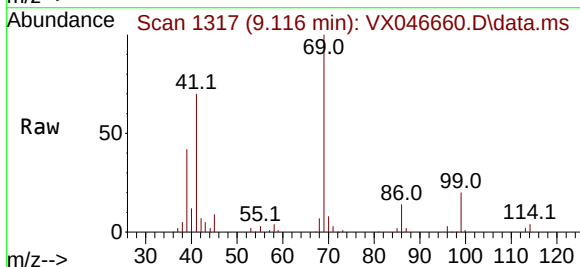
Tgt Ion: 69 Resp: 32307

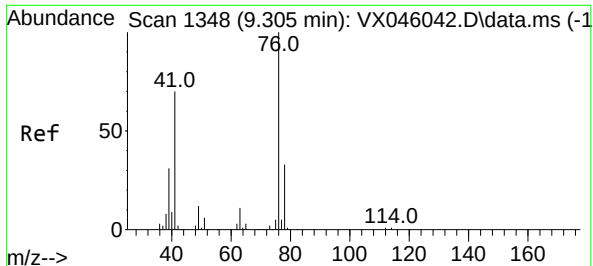
Ion Ratio Lower Upper

69 100

41 70.7 60.8 91.2

39 42.0 39.0 58.6





#57

1,3-Dichloropropane

Concen: 19.225 ug/l

RT: 9.311 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 76 Resp: 3583

Ion Ratio Lower Upper

76 100

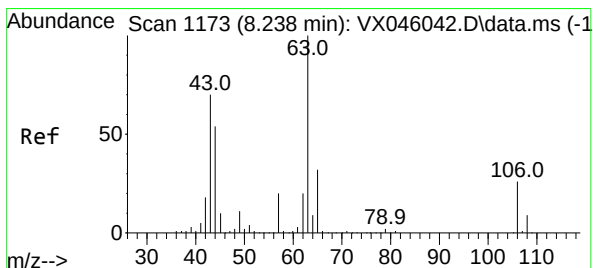
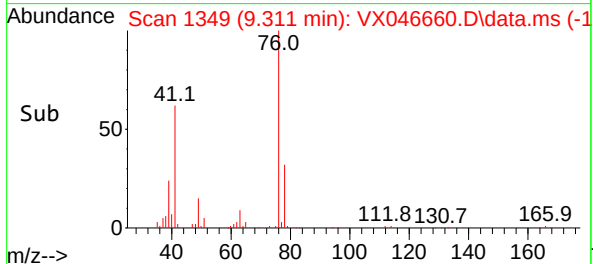
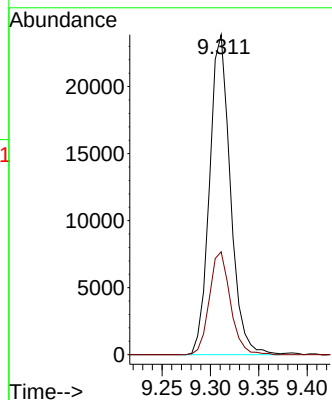
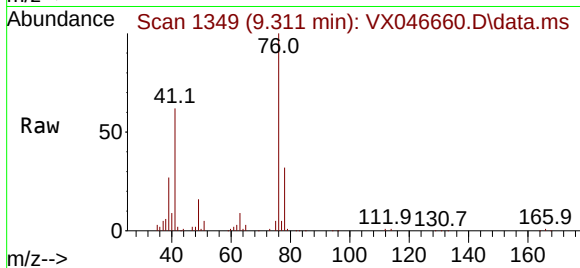
78 32.4 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#58

2-Chloroethyl Vinyl ether

Concen: 99.160 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046660.D

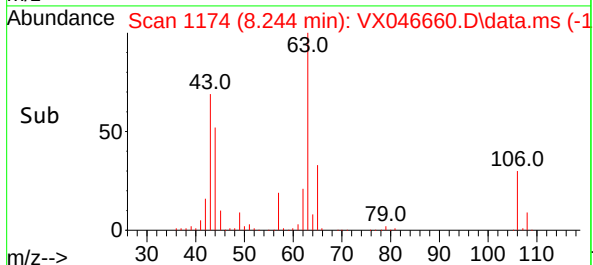
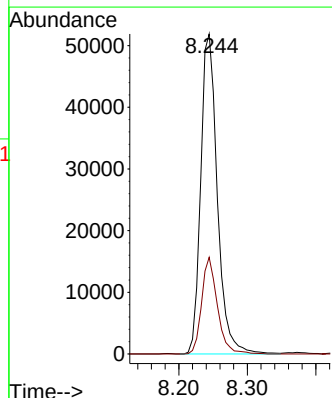
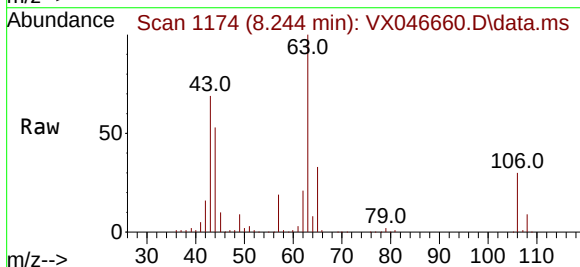
Acq: 12 Jun 2025 13:38

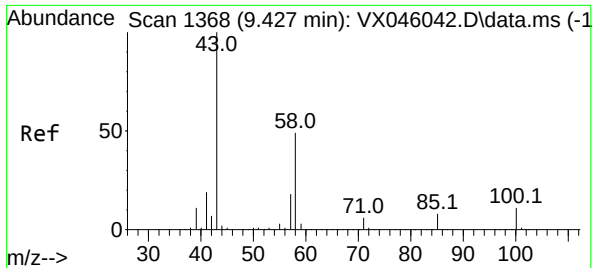
Tgt Ion: 63 Resp: 87671

Ion Ratio Lower Upper

63 100

106 28.5 21.5 32.3





#59

2-Hexanone

Concen: 96.217 ug/l

RT: 9.433 min Scan# 1368

Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion: 43 Resp: 11334

Ion Ratio Lower Upper

43 100

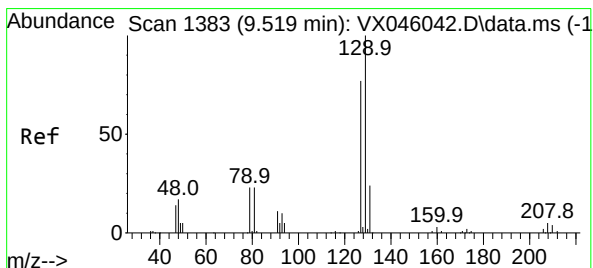
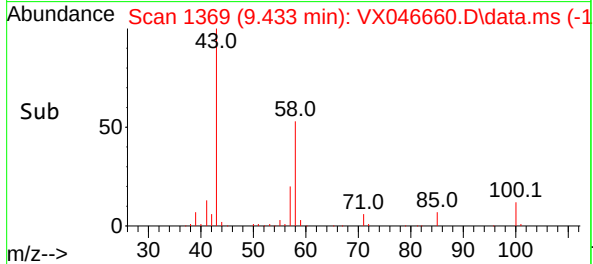
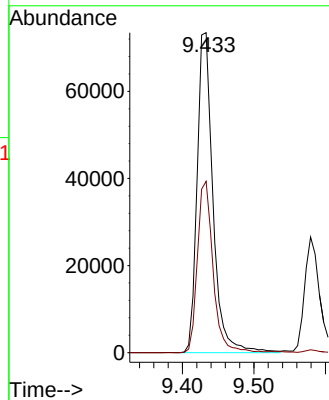
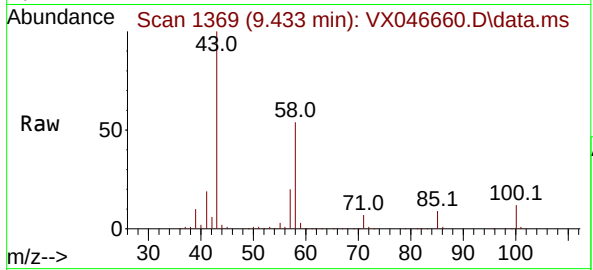
58 52.8 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#60

Dibromochloromethane

Concen: 20.468 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VX046660.D

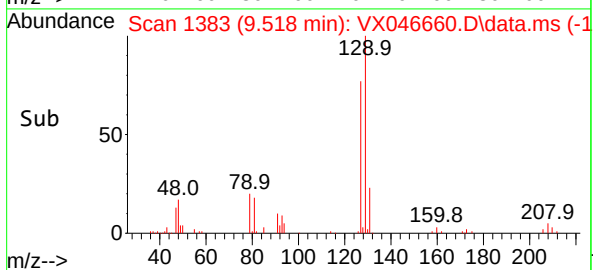
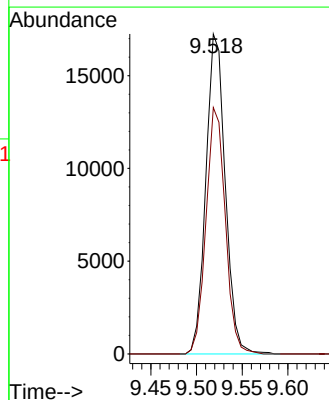
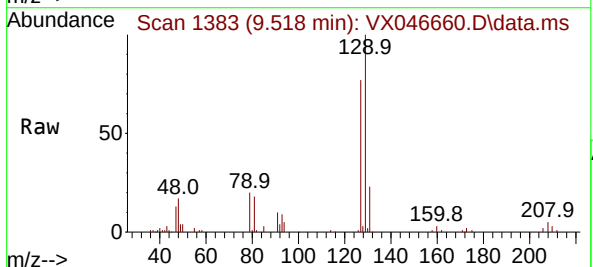
Acq: 12 Jun 2025 13:38

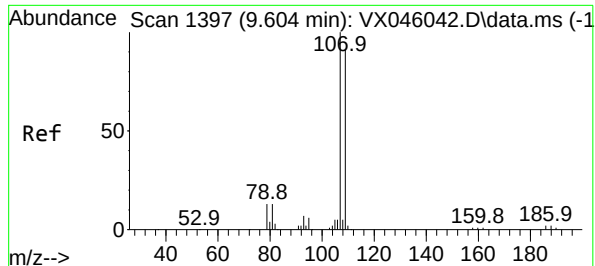
Tgt Ion:129 Resp: 25395

Ion Ratio Lower Upper

129 100

127 76.5 39.3 117.8





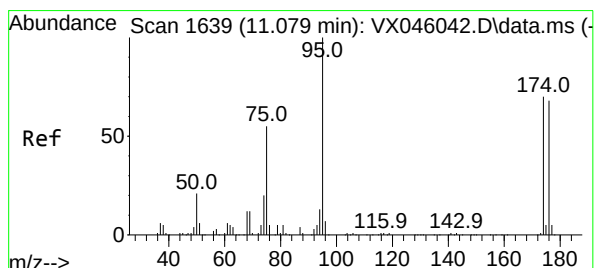
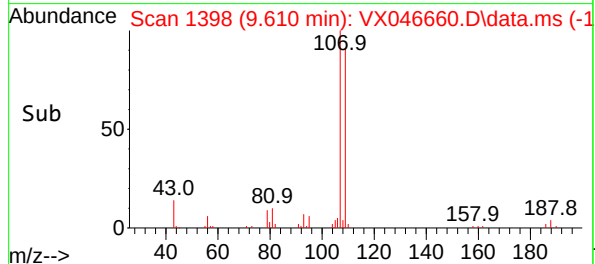
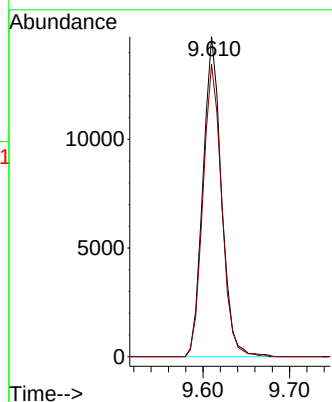
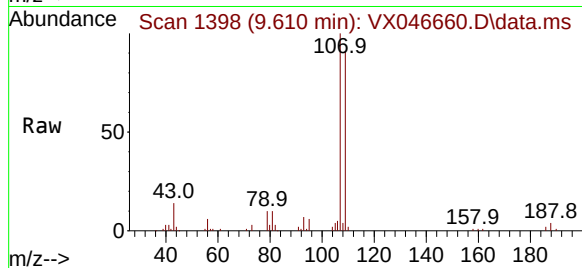
#61
1,2-Dibromoethane
Concen: 19.793 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion:107 Resp: 21750
Ion Ratio Lower Upper
107 100
109 93.2 73.3 109.9

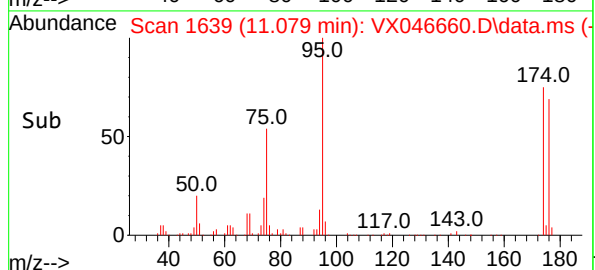
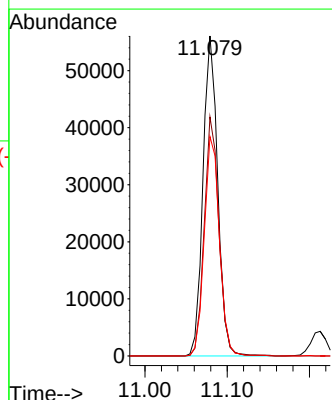
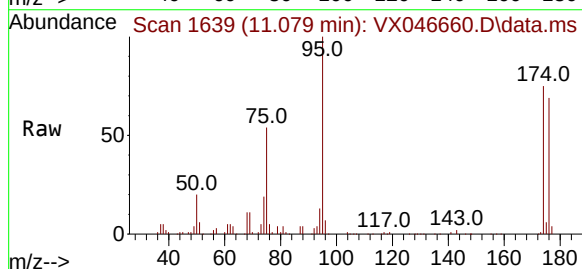
Manual Integrations
APPROVED

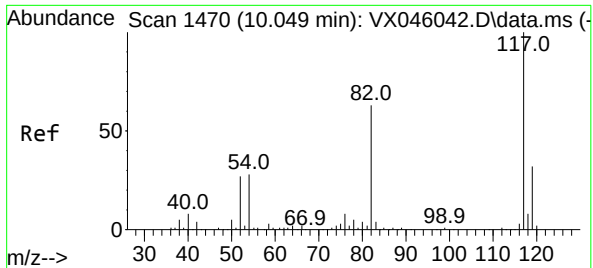
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#62
4-Bromofluorobenzene
Concen: 48.084 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 95 Resp: 69758
Ion Ratio Lower Upper
95 100
174 74.2 0.0 135.8
176 70.7 0.0 131.4





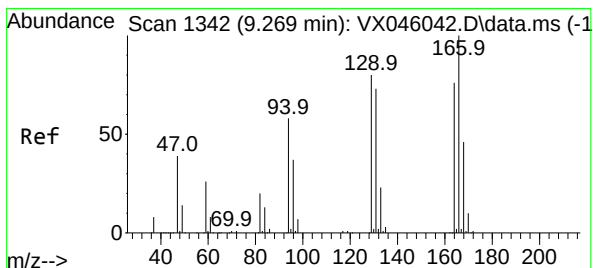
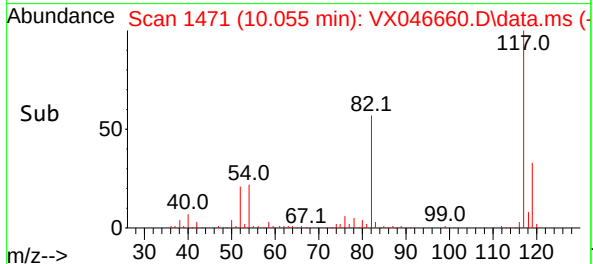
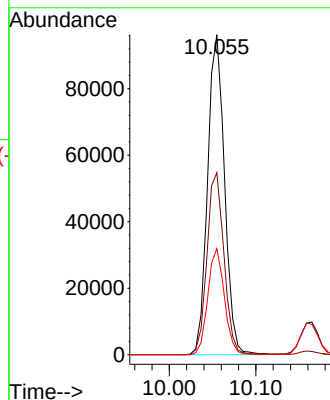
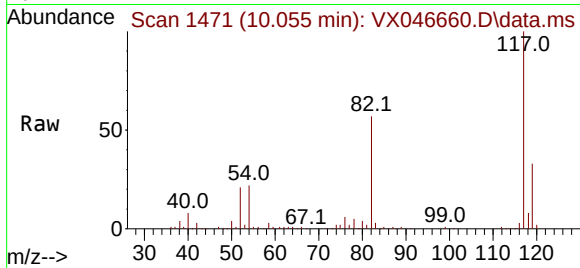
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion:117 Resp: 130715
Ion Ratio Lower Upper
117 100
82 56.8 50.6 76.0
119 33.1 25.8 38.6

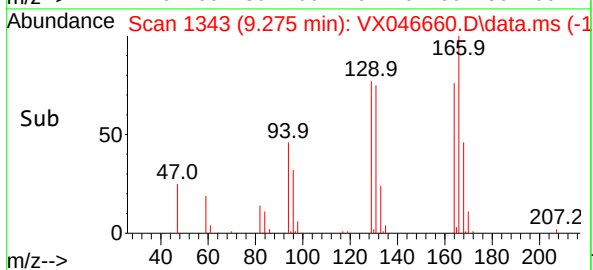
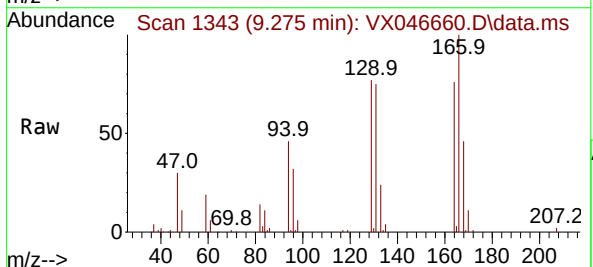
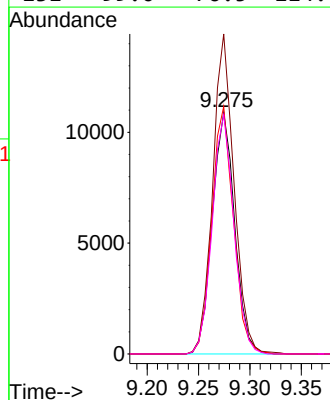
Manual Integrations
APPROVED

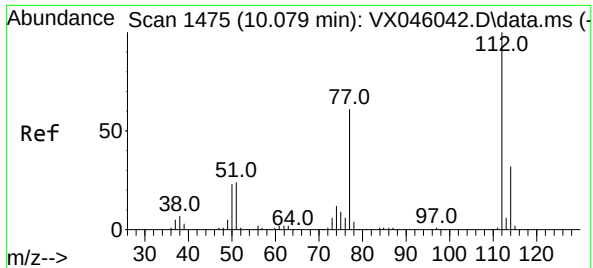
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#64
Tetrachloroethene
Concen: 18.916 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion:164 Resp: 16534
Ion Ratio Lower Upper
164 100
166 132.4 105.0 157.6
129 102.4 83.5 125.3
131 99.0 76.5 114.7





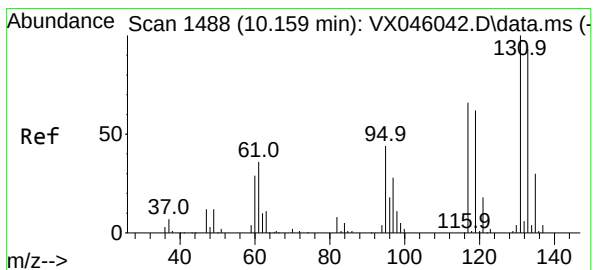
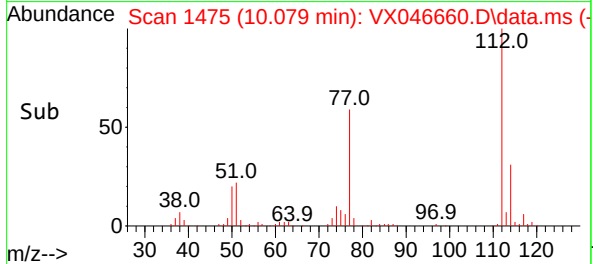
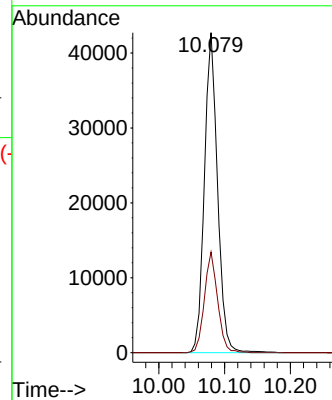
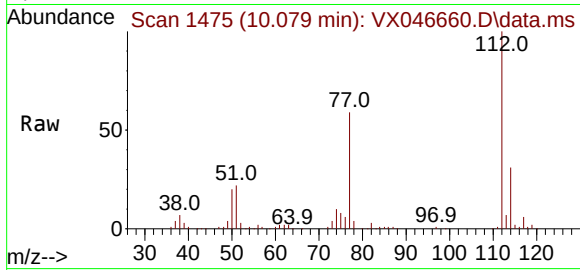
#65
Chlorobenzene
Concen: 19.277 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion:112 Resp: 59264
Ion Ratio Lower Upper
112 100
114 31.4 25.4 38.2

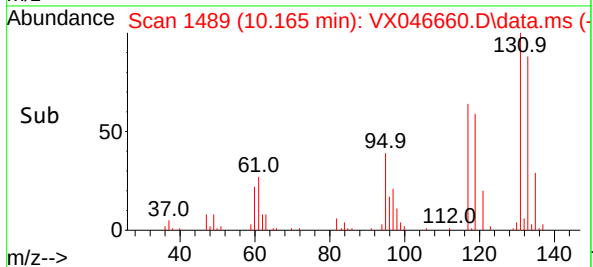
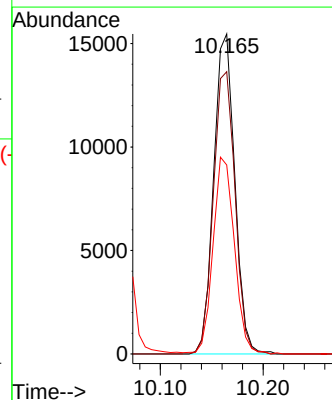
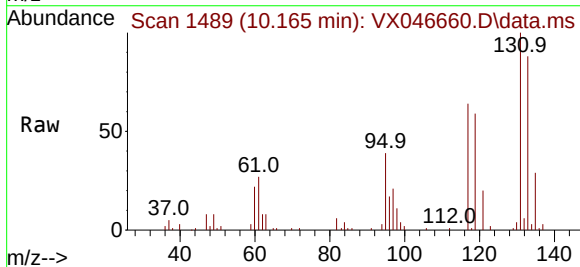
Manual Integrations
APPROVED

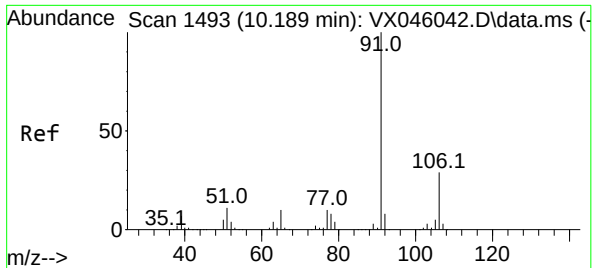
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 21.172 ug/l
RT: 10.165 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion:131 Resp: 21995
Ion Ratio Lower Upper
131 100
133 91.1 47.3 141.9
119 62.6 31.6 95.0





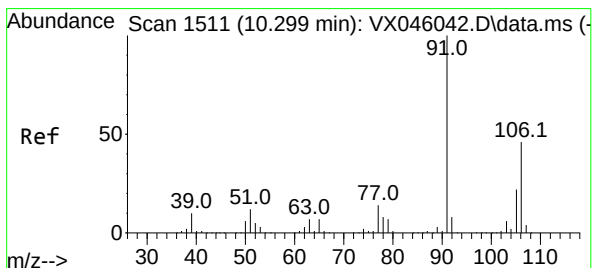
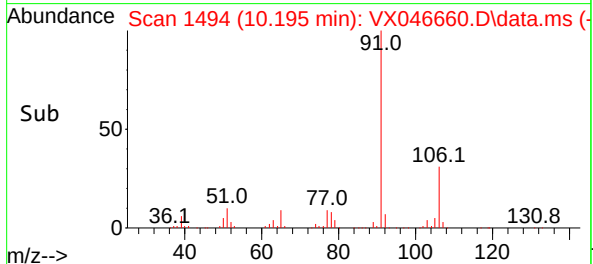
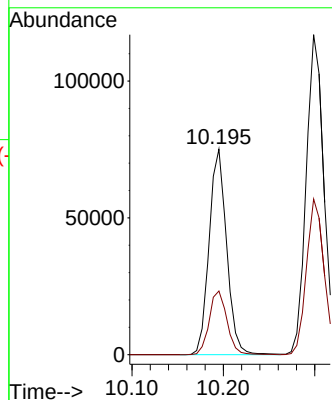
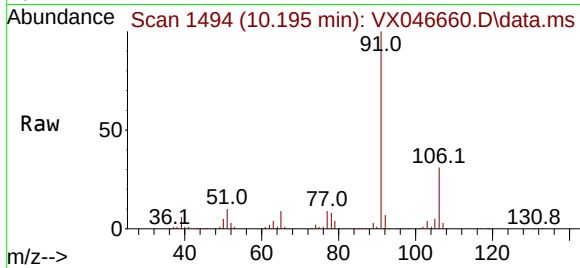
#67
Ethyl Benzene
Concen: 18.601 ug/l
RT: 10.195 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion: 91 Resp: 99830
Ion Ratio Lower Upper
91 100
106 31.0 23.4 35.2

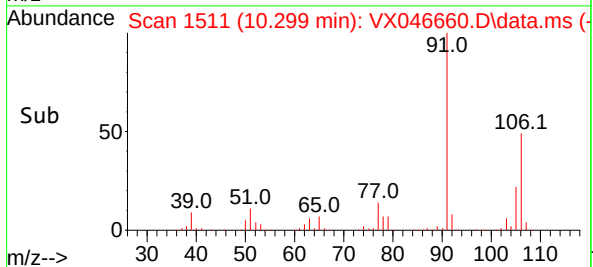
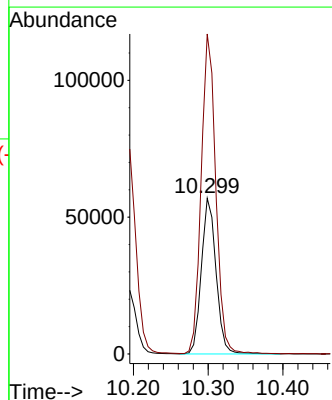
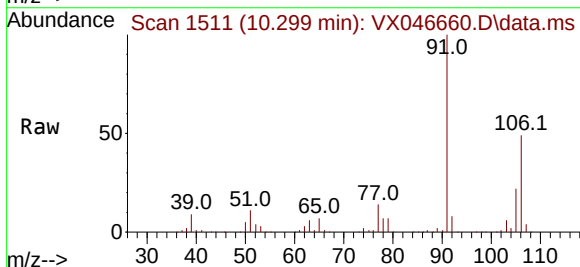
Manual Integrations
APPROVED

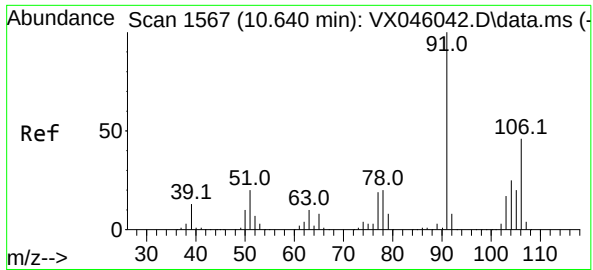
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#68
m/p-Xylenes
Concen: 39.802 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion:106 Resp: 77489
Ion Ratio Lower Upper
106 100
91 204.5 171.2 256.8





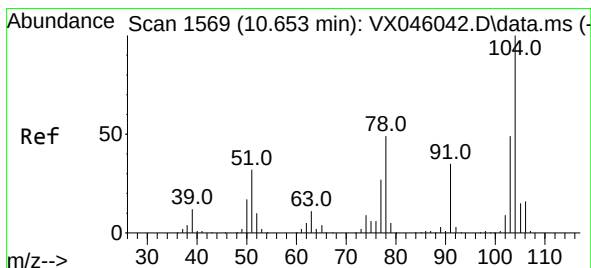
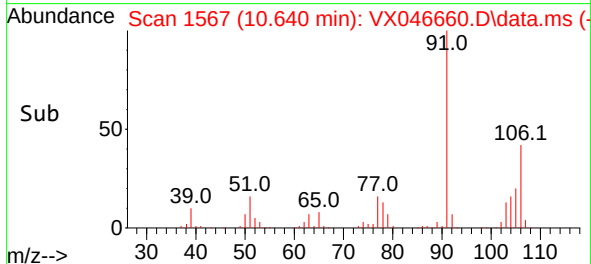
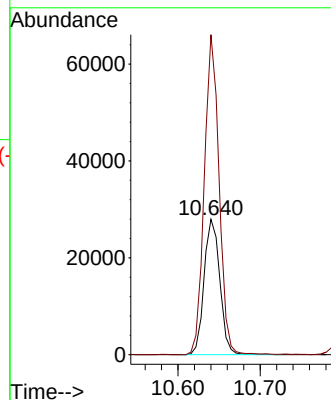
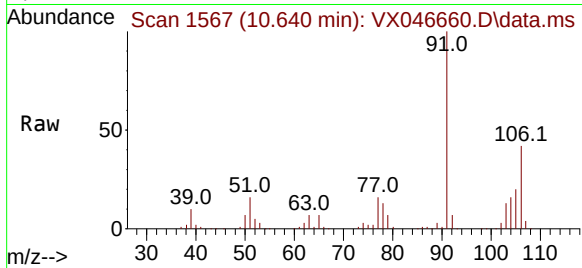
#69
o-Xylene
Concen: 19.709 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion:106 Resp: 37114
Ion Ratio Lower Upper
106 100
91 222.6 112.7 338.1

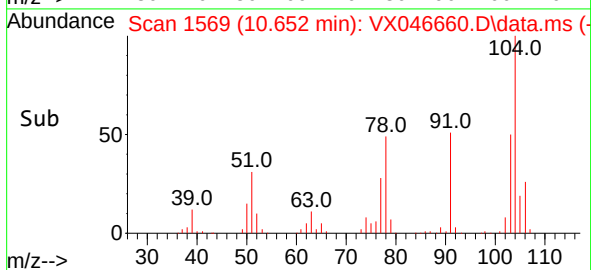
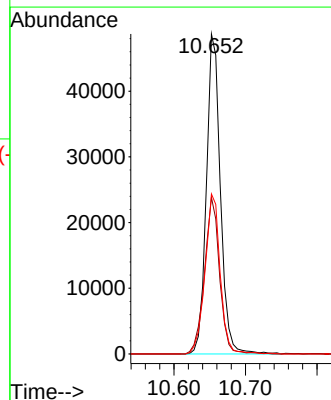
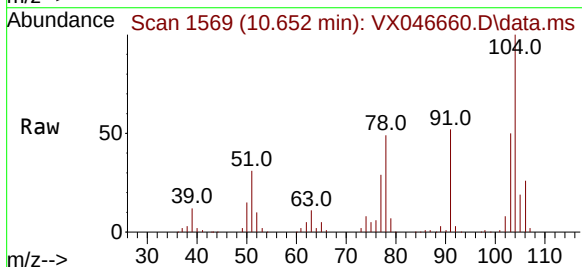
Manual Integrations
APPROVED

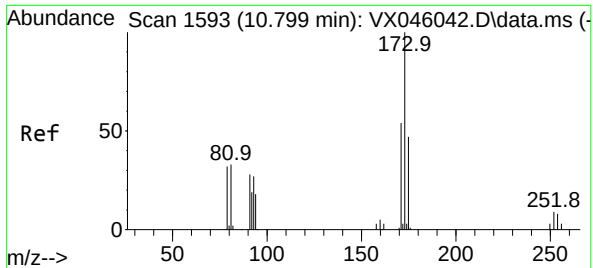
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#70
Styrene
Concen: 20.601 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

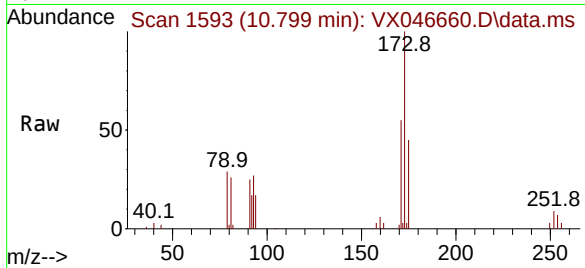
Tgt Ion:104 Resp: 66406
Ion Ratio Lower Upper
104 100
78 52.6 45.7 68.5
103 53.9 43.7 65.5





#71
Bromoform
Concen: 20.616 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

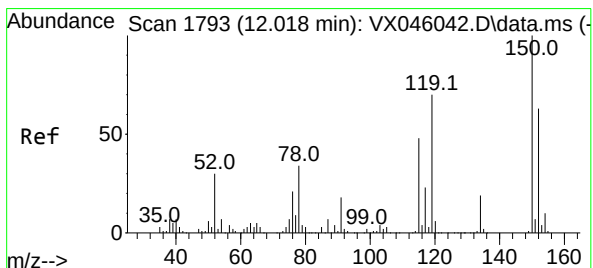
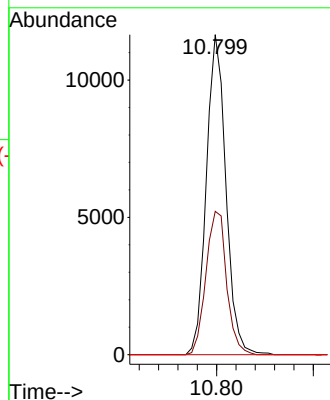
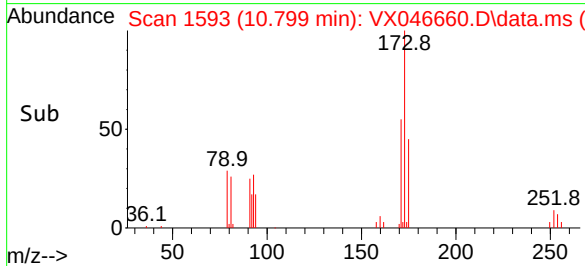
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion:173 Resp: 16330
Ion Ratio Lower Upper
173 100
175 47.5 23.4 70.0
254 0.0 0.0 0.0

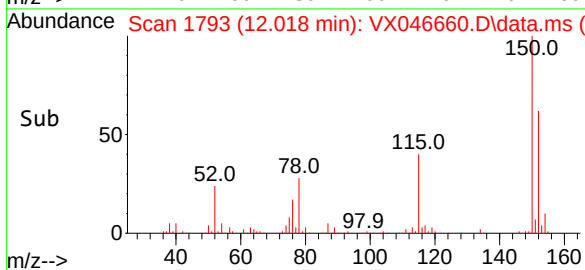
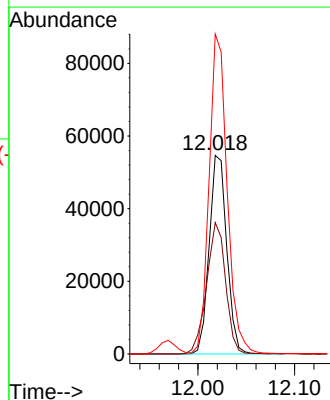
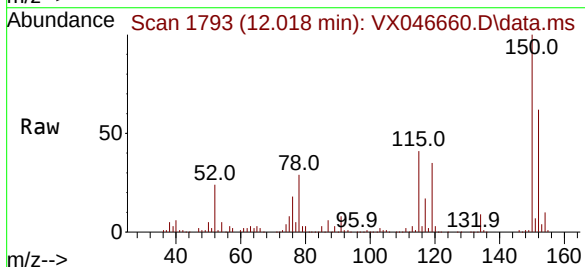
Manual Integrations
APPROVED

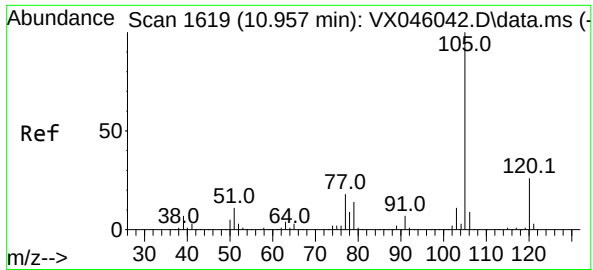
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion:152 Resp: 69016
Ion Ratio Lower Upper
152 100
115 71.4 46.9 140.7
150 165.3 0.0 351.0





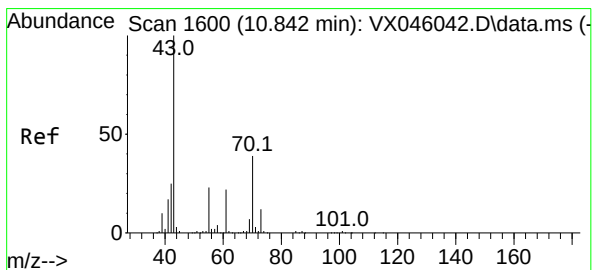
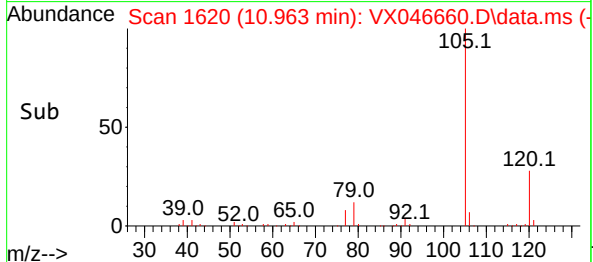
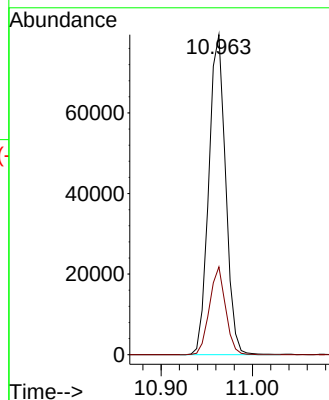
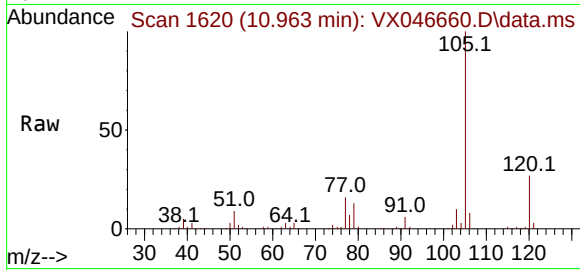
#73
Isopropylbenzene
Concen: 18.679 ug/l
RT: 10.963 min Scan# 1619
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion:105 Resp: 101339
Ion Ratio Lower Upper
105 100
120 26.2 12.8 38.4

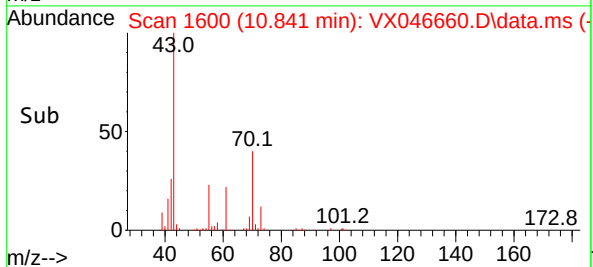
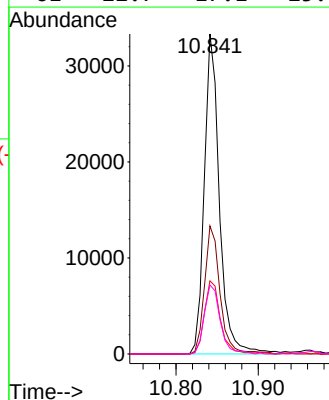
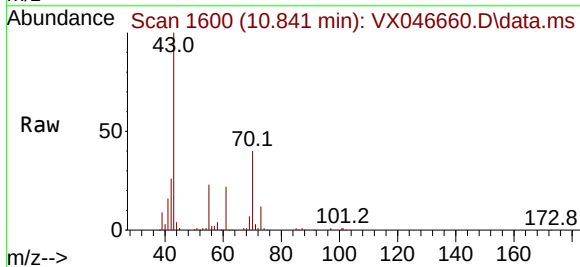
Manual Integrations
APPROVED

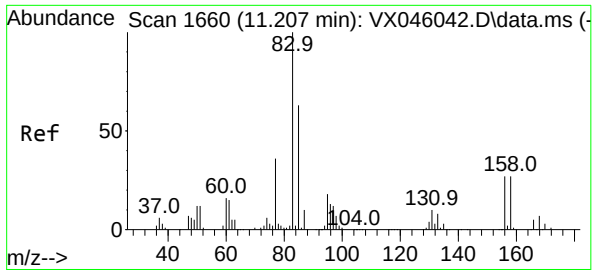
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#74
N-ethyl acetate
Concen: 17.811 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

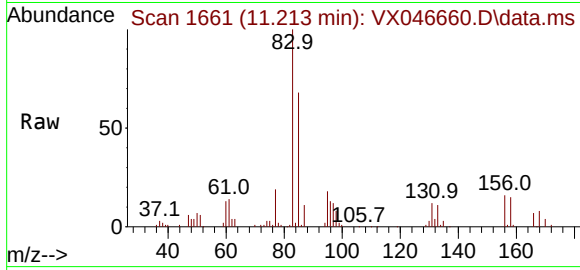
Tgt Ion: 43 Resp: 42555
Ion Ratio Lower Upper
43 100
70 41.0 30.9 46.3
55 24.3 18.7 28.1
61 22.7 17.1 25.7





#75
1,1,2,2-Tetrachloroethane
Concen: 19.188 ug/l
RT: 11.213 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

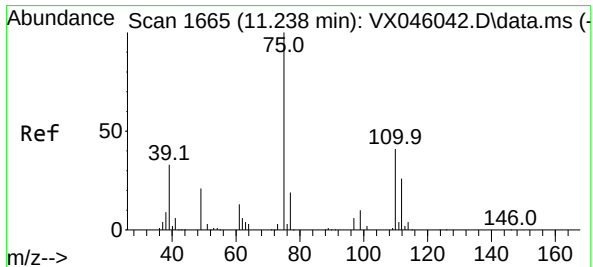
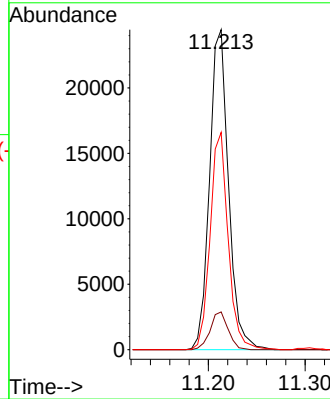
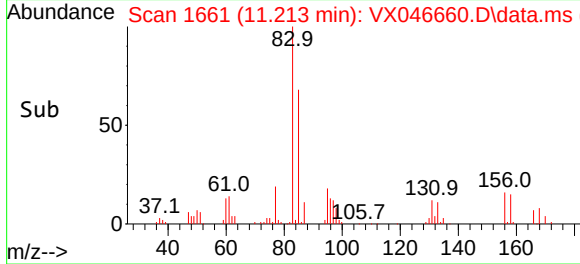
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion: 83 Resp: 3332
Ion Ratio Lower Upper
83 100
131 11.2 5.0 14.9
85 64.8 31.9 95.7

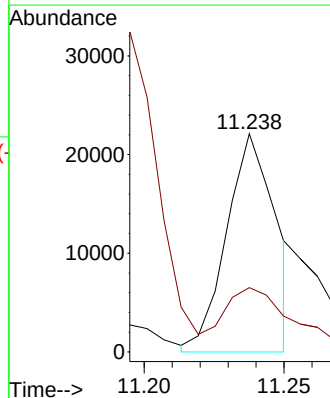
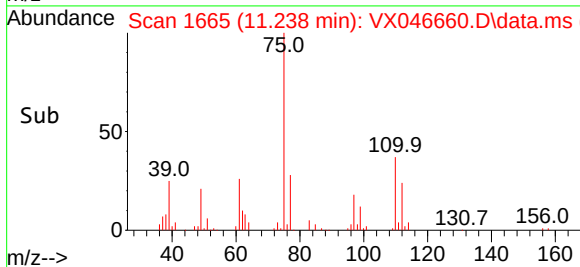
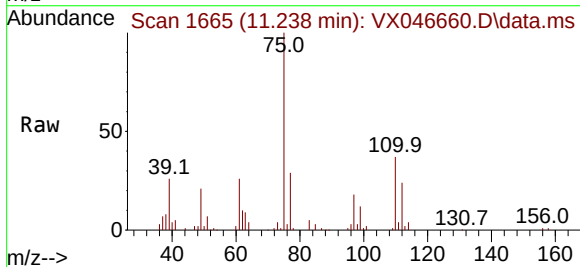
Manual Integrations
APPROVED

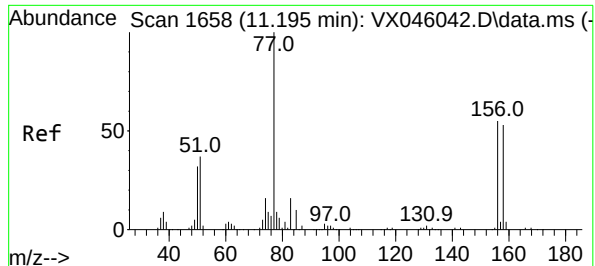
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#76
1,2,3-Trichloropropane
Concen: 18.389 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 75 Resp: 26882
Ion Ratio Lower Upper
75 100
77 42.8 20.5 61.5





#77

Bromobenzene

Concen: 19.285 ug/l

RT: 11.195 min Scan# 1658

Delta R.T. -0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

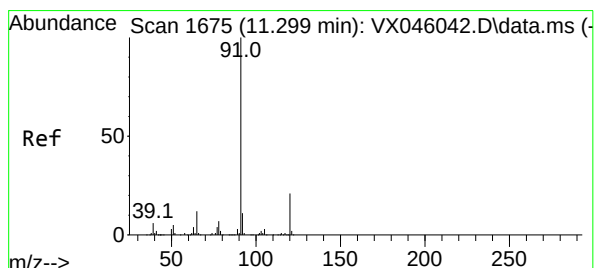
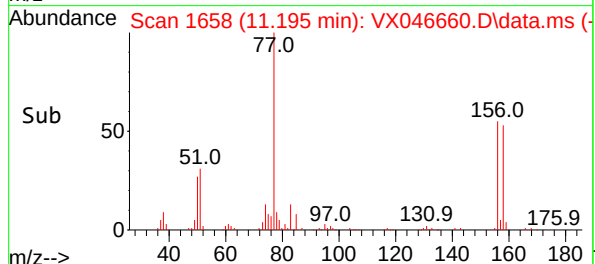
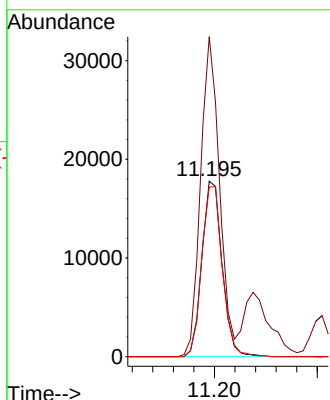
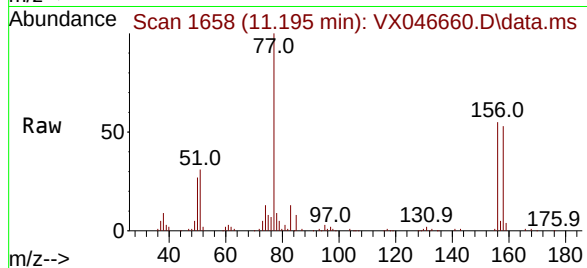
Tgt Ion:	156	Resp:	2428
Ion Ratio	Lower	Upper	
156	100		
77	170.5	92.8	278.3
158	98.9	48.8	146.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#78

n-propylbenzene

Concen: 18.075 ug/l

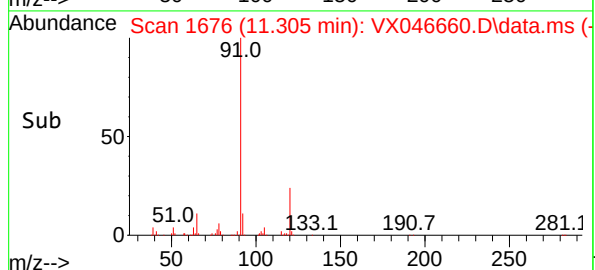
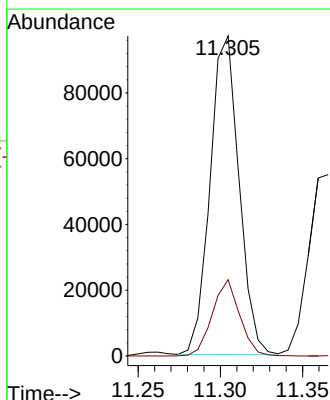
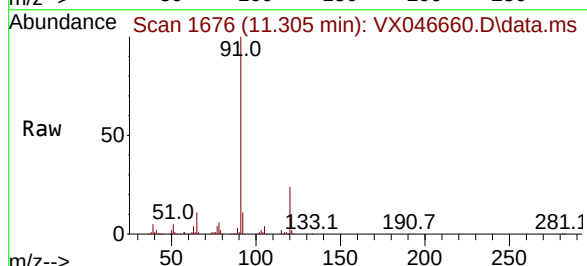
RT: 11.305 min Scan# 1676

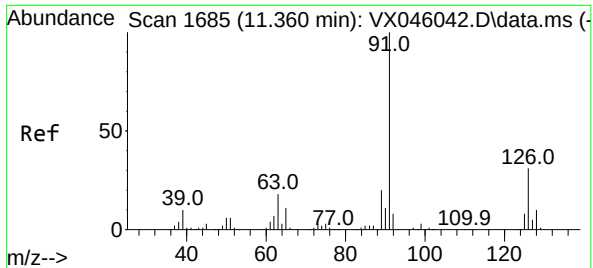
Delta R.T. -0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Tgt Ion:	91	Resp:	118689
Ion Ratio	Lower	Upper	
91	100		
120	22.7	10.8	32.4





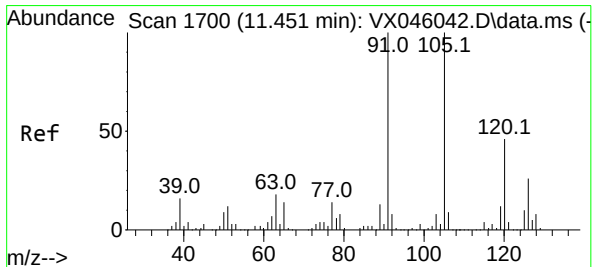
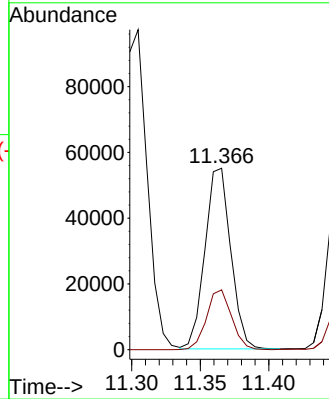
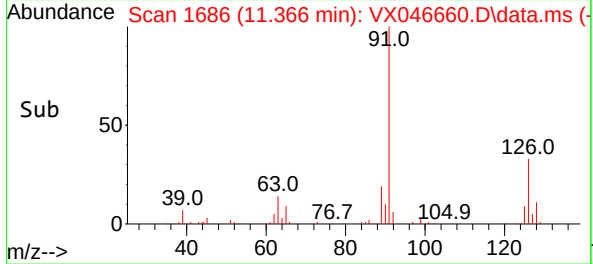
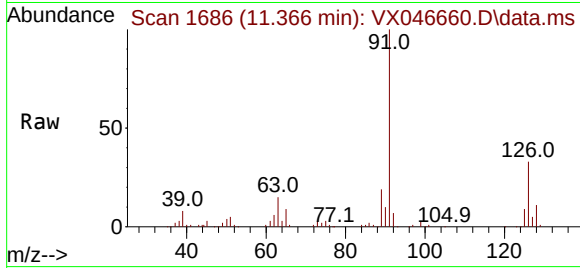
#79
2-Chlorotoluene
Concen: 18.214 ug/l
RT: 11.366 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01

Tgt Ion: 91 Resp: 7212
Ion Ratio Lower Upper
91 100
126 32.1 15.6 46.7

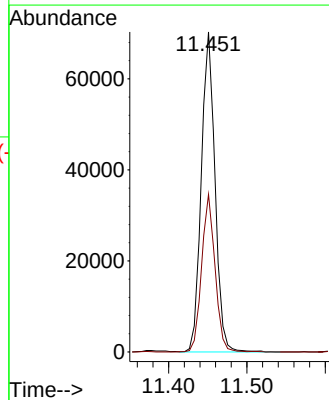
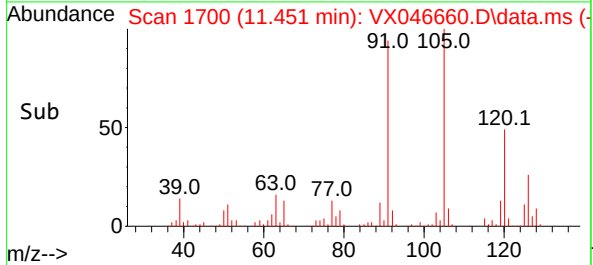
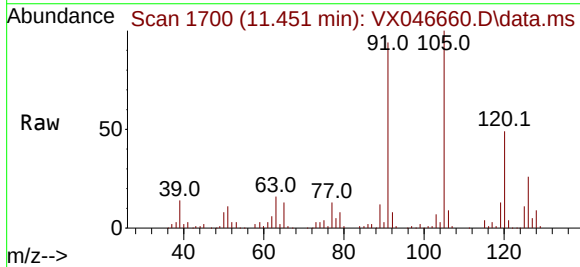
Manual Integrations
APPROVED

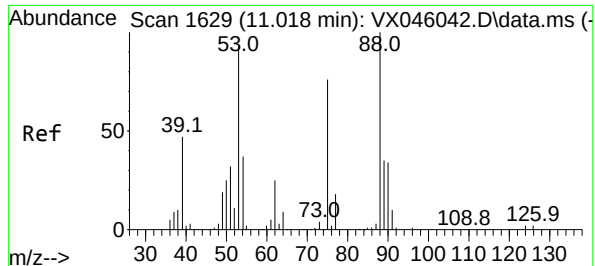
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#80
1,3,5-Trimethylbenzene
Concen: 18.909 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

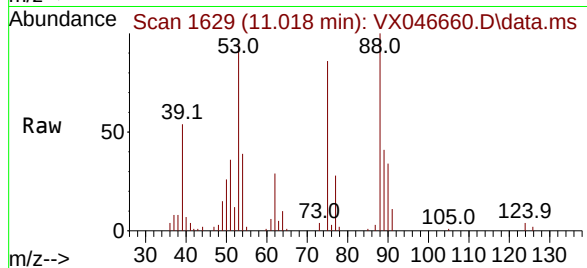
Tgt Ion:105 Resp: 85488
Ion Ratio Lower Upper
105 100
120 48.2 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 18.170 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

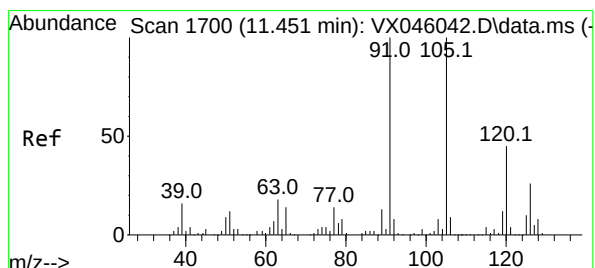
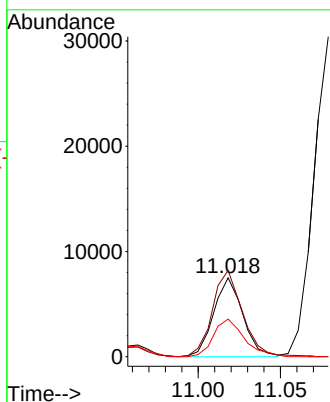
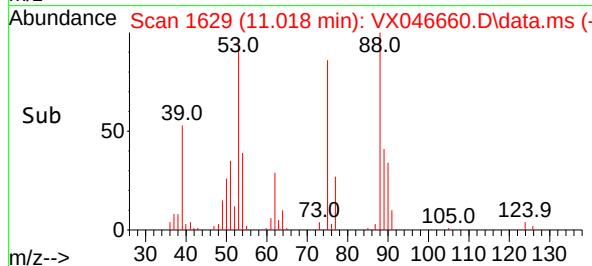
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion: 75 Resp: 9208
Ion Ratio Lower Upper
75 100
53 113.5 100.5 150.7
89 50.2 37.0 55.6

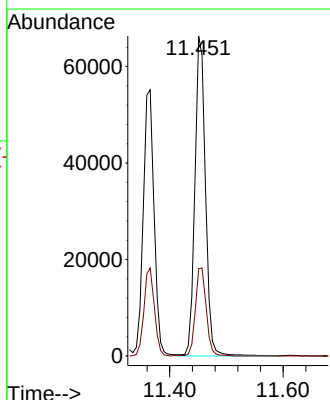
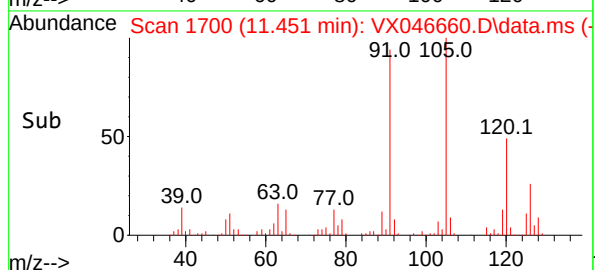
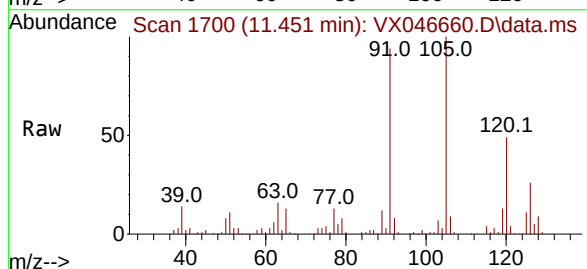
Manual Integrations
APPROVED

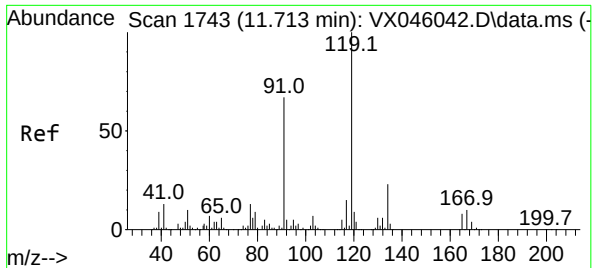
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#82
4-Chlorotoluene
Concen: 18.344 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion: 91 Resp: 86099
Ion Ratio Lower Upper
91 100
126 28.2 13.3 39.8





#83

tert-Butylbenzene

Concen: 18.363 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion:119 Resp: 8451

Ion Ratio Lower Upper

119 100

91 60.9 32.9 98.7

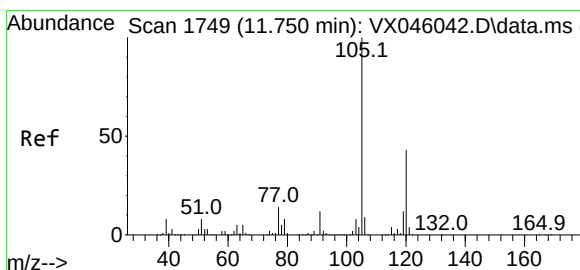
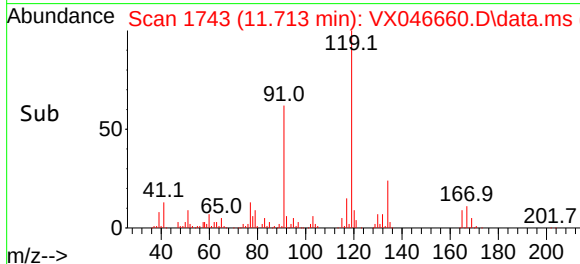
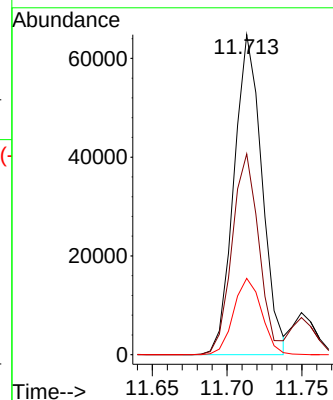
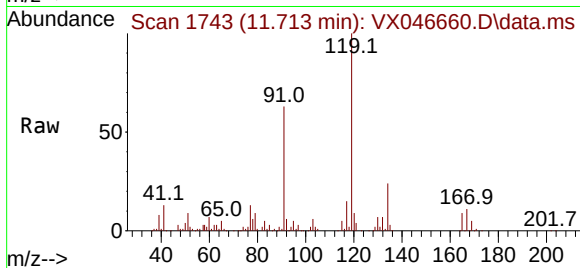
134 23.9 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#84

1,2,4-Trimethylbenzene

Concen: 18.609 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046660.D

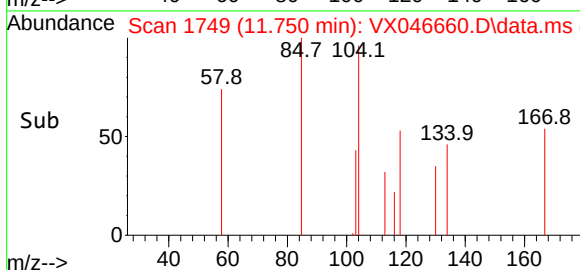
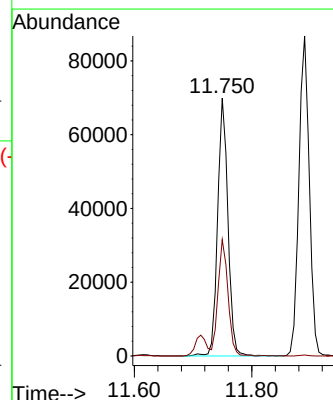
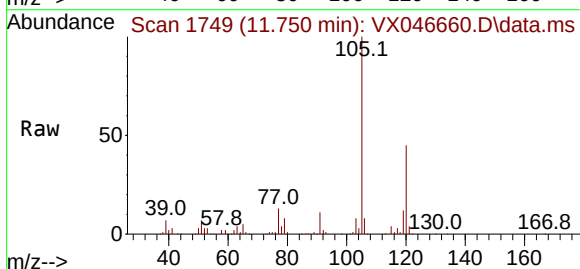
Acq: 12 Jun 2025 13:38

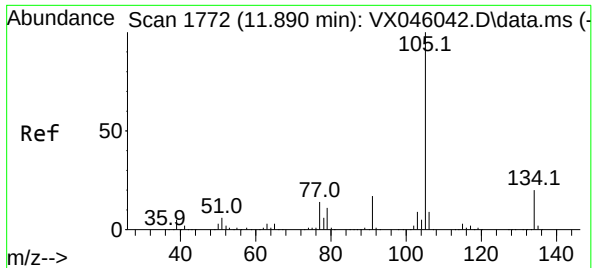
Tgt Ion:105 Resp: 85107

Ion Ratio Lower Upper

105 100

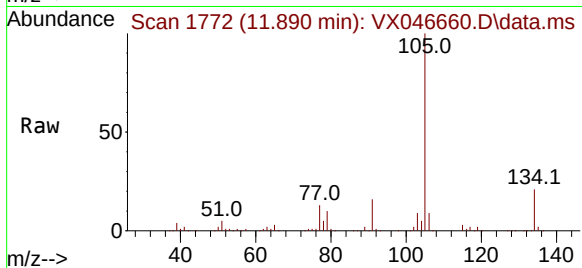
120 43.5 21.2 63.6





#85
sec-Butylbenzene
Concen: 18.059 ug/l
RT: 11.890 min Scan# 1772
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

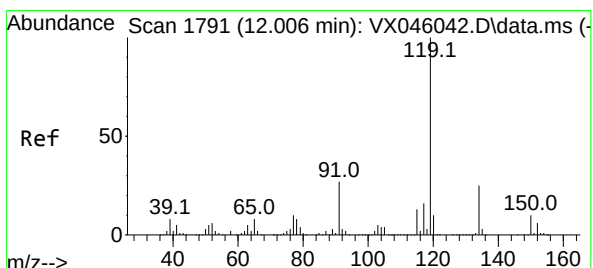
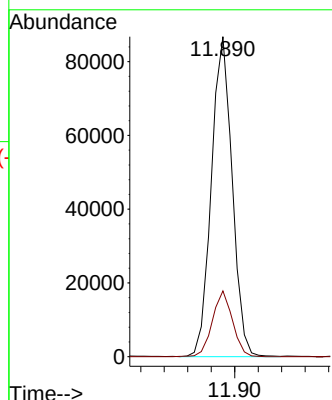
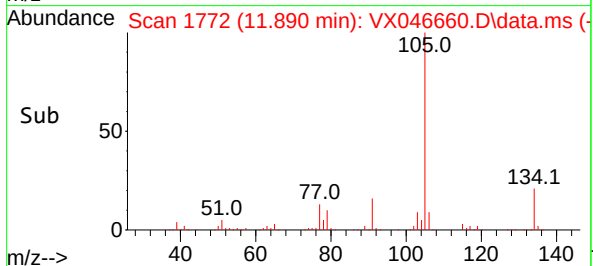
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



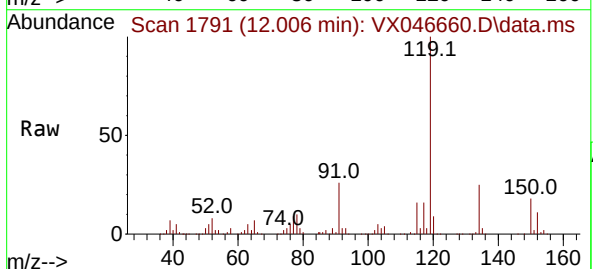
Tgt Ion:105 Resp: 10679
Ion Ratio Lower Upper
105 100
134 19.8 9.7 29.1

Manual Integrations
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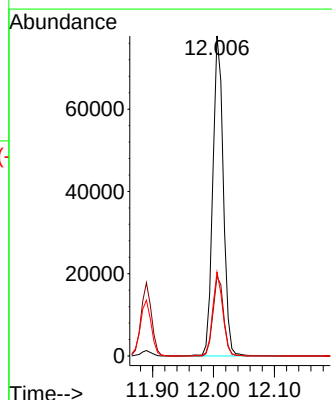
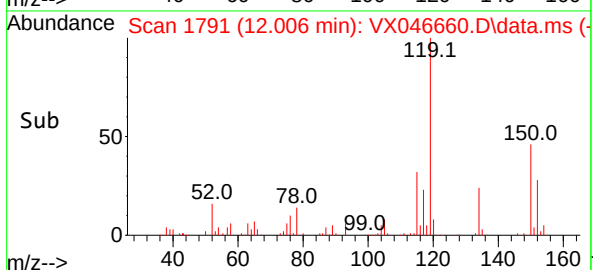
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

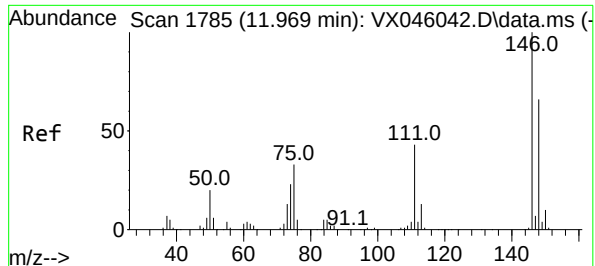


#86
p-Isopropyltoluene
Concen: 18.850 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38



Tgt Ion:119 Resp: 92930
Ion Ratio Lower Upper
119 100
134 24.9 12.5 37.5
91 25.3 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 19.491 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

Tgt Ion:146 Resp: 47662

Ion Ratio Lower Upper

146 100

111 41.8 22.1 66.3

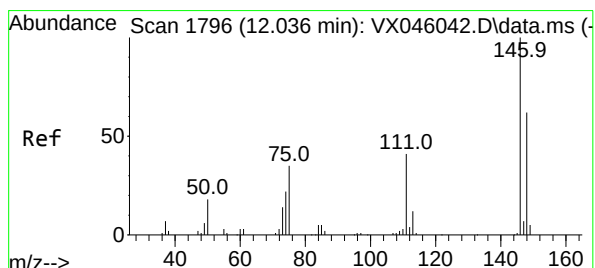
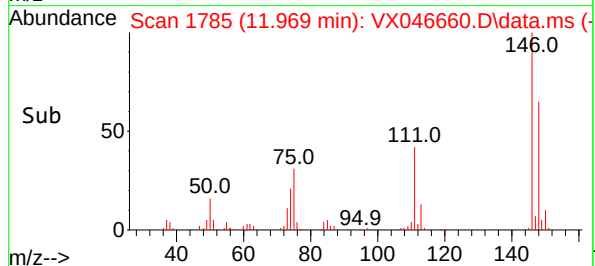
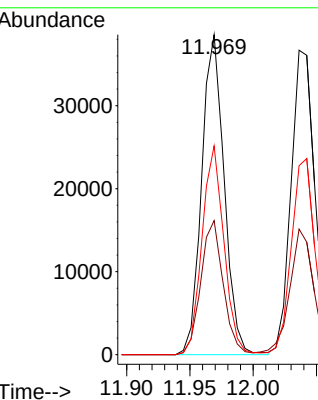
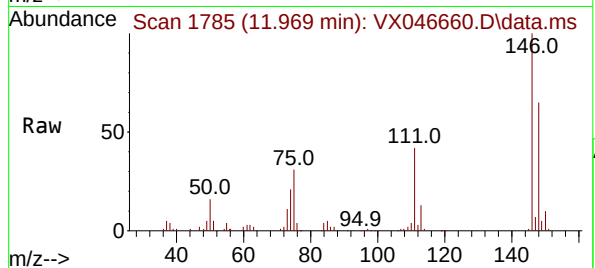
148 63.6 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#88

1,4-Dichlorobenzene

Concen: 18.991 ug/l

RT: 12.036 min Scan# 1796

Delta R.T. -0.006 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

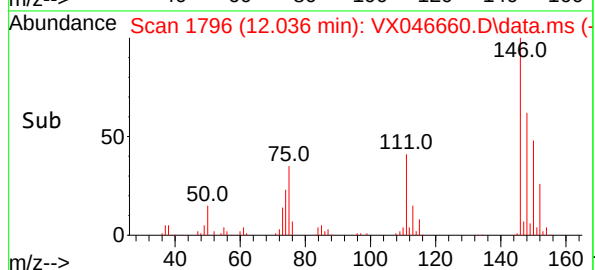
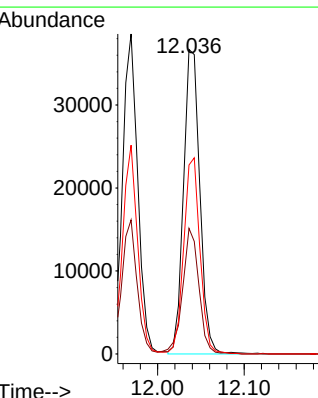
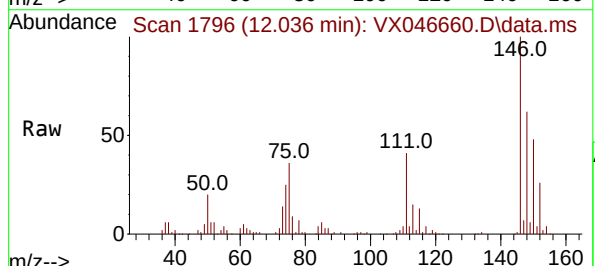
Tgt Ion:146 Resp: 48120

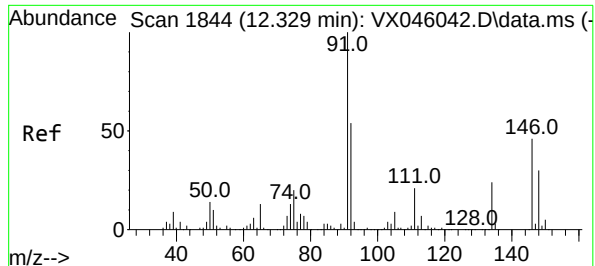
Ion Ratio Lower Upper

146 100

111 41.4 21.3 63.9

148 64.3 31.9 95.5





#89

n-Butylbenzene

Concen: 17.705 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

Instrument :

MSVOA_X

ClientSampleId :

VX0612WBS01

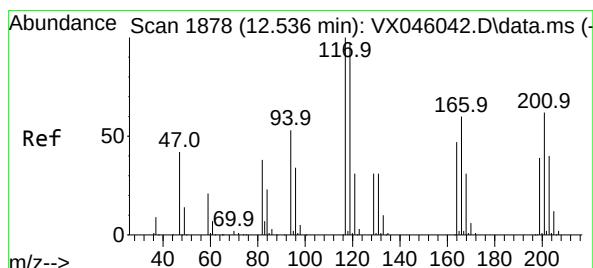
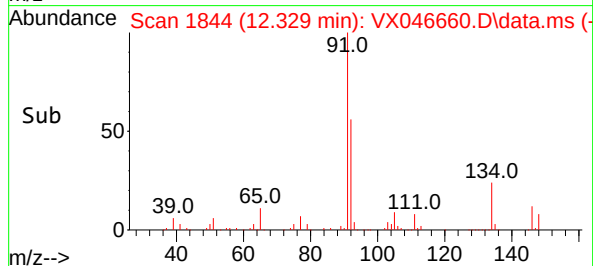
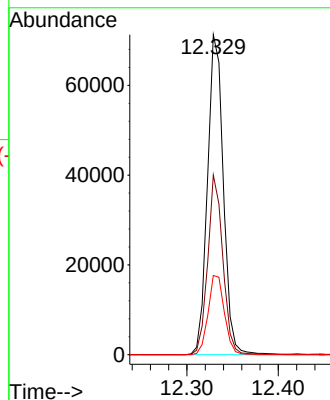
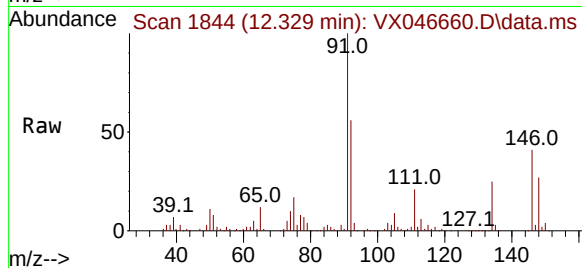
Tgt Ion: 91	Resp: 8571
Ion Ratio	Lower Upper
91	100
92	53.6 26.9 80.7
134	25.4 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/13/2025

Supervised By :Mahesh Dadoda 06/13/2025



#90

Hexachloroethane

Concen: 17.437 ug/l

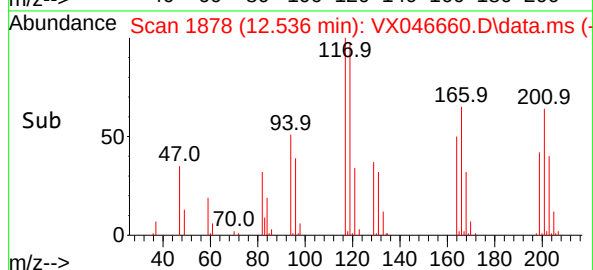
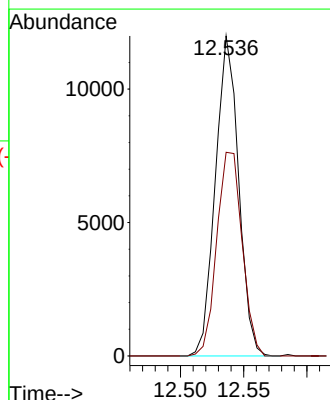
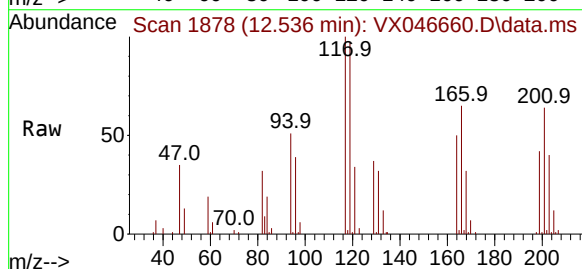
RT: 12.536 min Scan# 1878

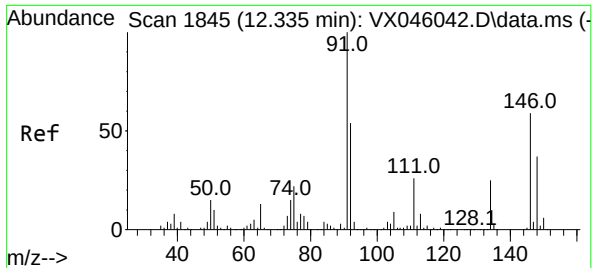
Delta R.T. 0.000 min

Lab File: VX046660.D

Acq: 12 Jun 2025 13:38

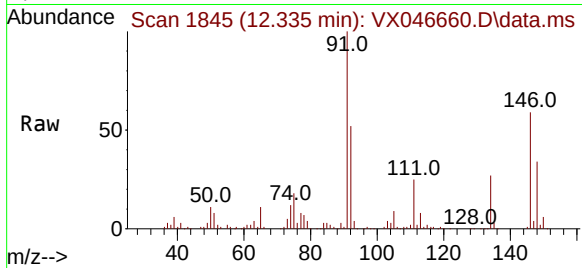
Tgt Ion: 117	Resp: 15279
Ion Ratio	Lower Upper
117	100
201	69.7 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 19.352 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

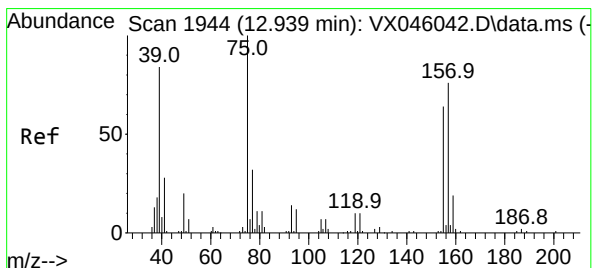
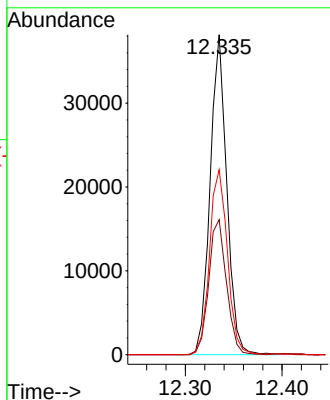
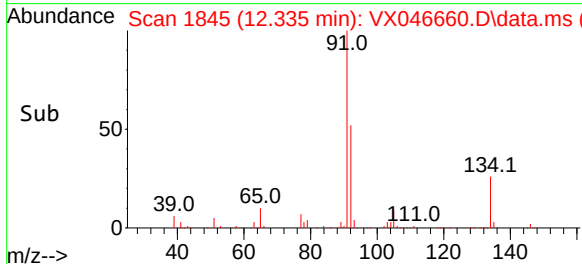
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion:146 Resp: 45679
Ion Ratio Lower Upper
146 100
111 45.1 22.4 67.3
148 62.2 31.6 94.8

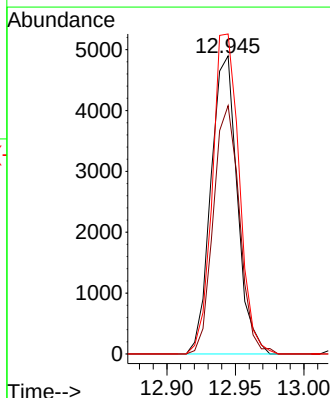
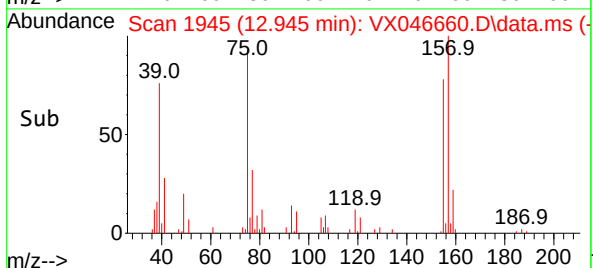
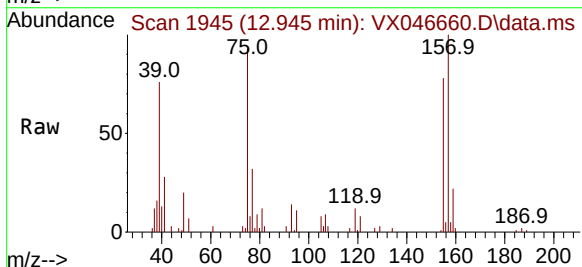
Manual Integrations
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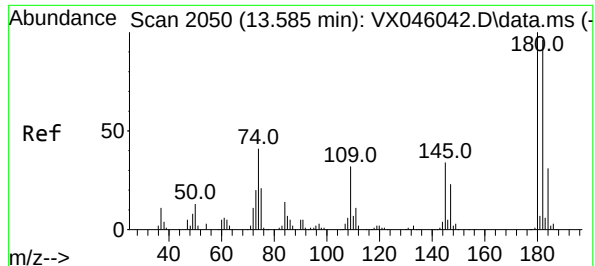
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 16.820 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

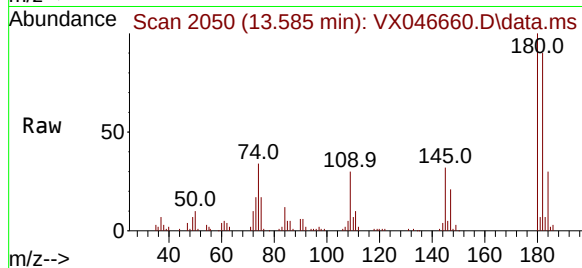
Tgt Ion: 75 Resp: 6541
Ion Ratio Lower Upper
75 100
155 82.4 34.9 104.8
157 109.1 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 19.444 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

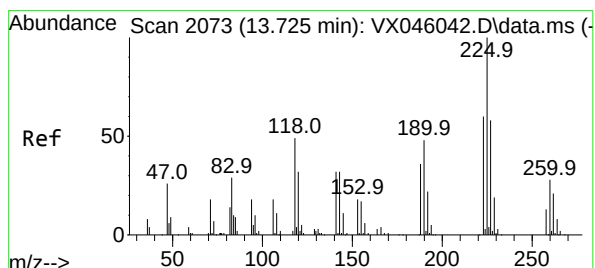
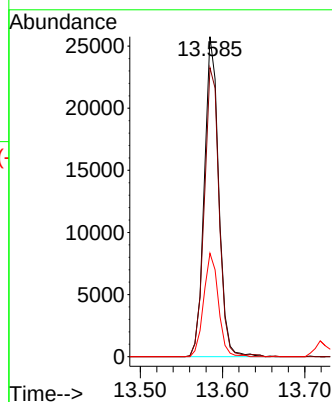
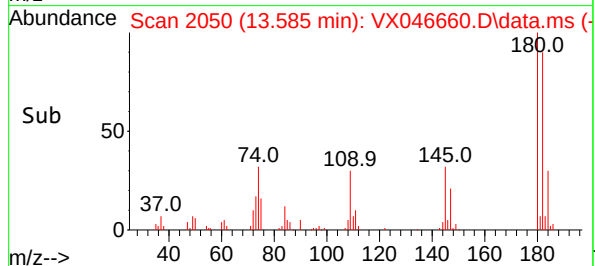
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



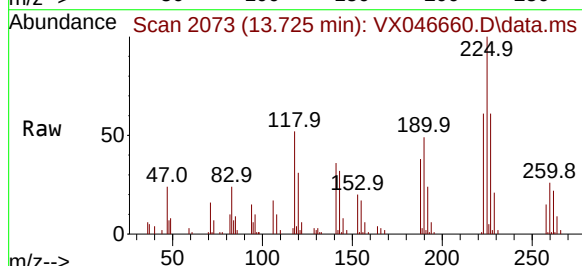
Tgt Ion:180 Resp: 31308
Ion Ratio Lower Upper
180 100
182 92.9 47.9 143.8
145 33.0 17.1 51.2

Manual Integrations
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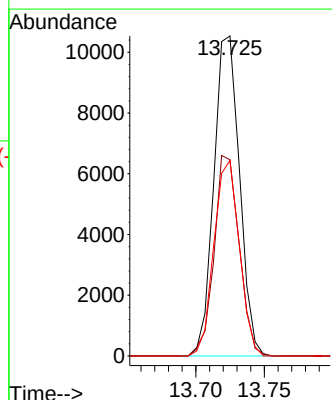
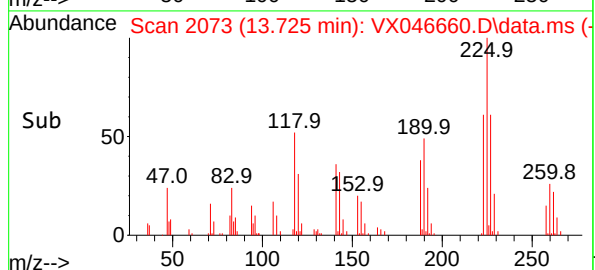
Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025

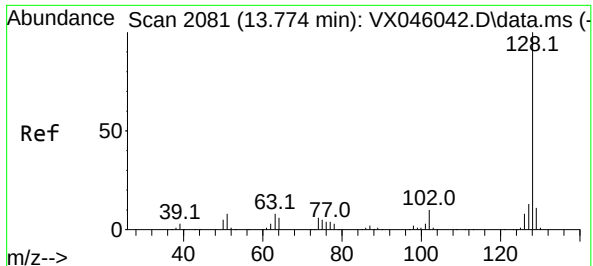


#94
Hexachlorobutadiene
Concen: 18.328 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38



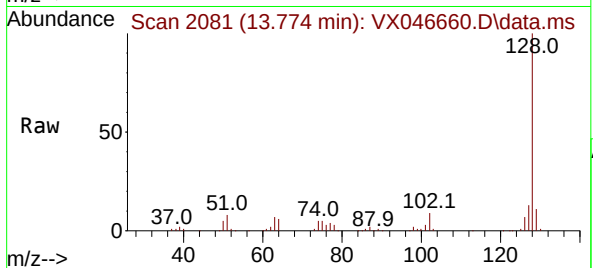
Tgt Ion:225 Resp: 13715
Ion Ratio Lower Upper
225 100
223 61.1 30.8 92.4
227 60.4 30.9 92.7





#95
Naphthalene
Concen: 19.787 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

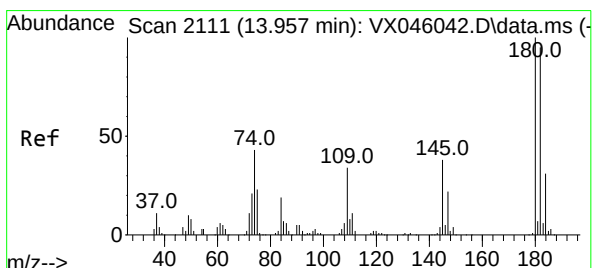
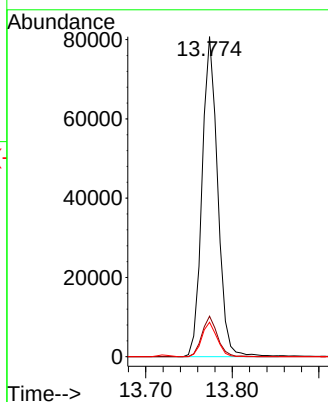
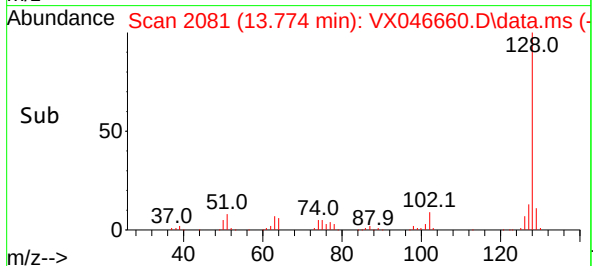
Instrument :
MSVOA_X
ClientSampleId :
VX0612WBS01



Tgt Ion:128 Resp: 10103
Ion Ratio Lower Upper
128 100
127 12.6 10.4 15.6
129 10.5 8.6 13.0

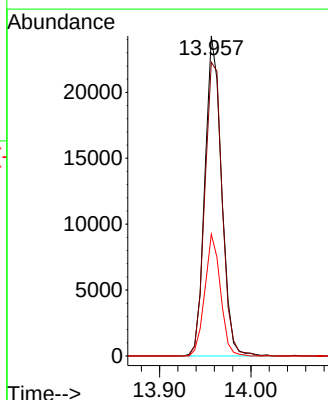
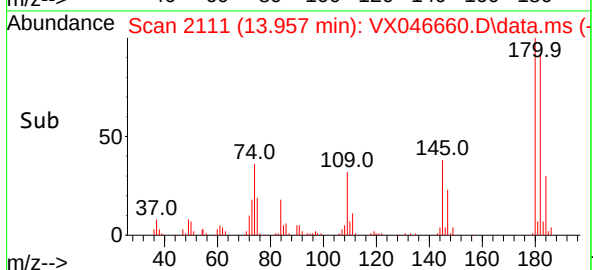
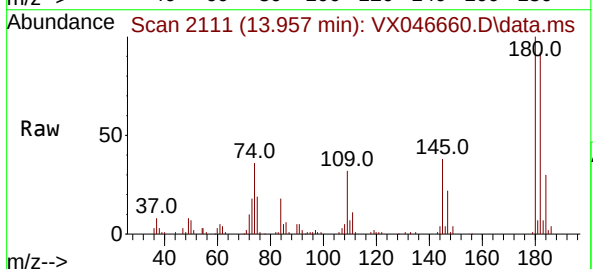
Manual Integrations
APPROVED

Reviewed By :John Carlone 06/13/2025
Supervised By :Mahesh Dadoda 06/13/2025



#96
1,2,3-Trichlorobenzene
Concen: 18.936 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX046660.D
Acq: 12 Jun 2025 13:38

Tgt Ion:180 Resp: 30574
Ion Ratio Lower Upper
180 100
182 96.2 47.8 143.3
145 35.7 18.1 54.3



Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	VX0611WBSD02	SDG No.:	Q2249
Lab Sample ID:	VX0611WBSD02	Matrix:	Water
Analytical Method:	8260D	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group3
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX046640.D	1		06/11/25 16:25	VX061125

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-01-4	Vinyl Chloride	15.8		0.26	1.00	ug/L
75-35-4	1,1-Dichloroethene	18.3		0.23	1.00	ug/L
75-34-3	1,1-Dichloroethane	19.2		0.23	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	19.2		0.19	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	19.0		0.20	1.00	ug/L
71-43-2	Benzene	19.5		0.15	1.00	ug/L
107-06-2	1,2-Dichloroethane	19.7		0.22	1.00	ug/L
79-01-6	Trichloroethene	18.8		0.090	1.00	ug/L
79-00-5	1,1,2-Trichloroethane	21.8		0.21	1.00	ug/L
127-18-4	Tetrachloroethene	18.0		0.23	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.4		70 (74) - 130 (125)	89%	SPK: 50
1868-53-7	Dibromofluoromethane	47.4		70 (75) - 130 (124)	95%	SPK: 50
2037-26-5	Toluene-d8	46.5		70 (86) - 130 (113)	93%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.7		70 (77) - 130 (121)	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	75800	5.556			
540-36-3	1,4-Difluorobenzene	131000	6.763			
3114-55-4	Chlorobenzene-d5	120000	10.055			
3855-82-1	1,4-Dichlorobenzene-d4	62800	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\VX061125\
 Data File : VX046640.D
 Acq On : 11 Jun 2025 16:25
 Operator : JC/MD
 Sample : VX0611WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:31:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	75823	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.763	114	130739	50.000	ug/l	-0.01
63) Chlorobenzene-d5	10.055	117	119823	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	62816	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	59955	44.445	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.900%		
35) Dibromofluoromethane	5.397	113	45537	47.363	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	94.720%		
50) Toluene-d8	8.647	98	147531	46.543	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.080%		
62) 4-Bromofluorobenzene	11.079	95	63899	48.723	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	97.440%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.185	85	16873	16.029	ug/l	99
3) Chloromethane	1.307	50	14814	15.461	ug/l	99
4) Vinyl Chloride	1.386	62	15136	15.847	ug/l	98
5) Bromomethane	1.624	94	8228	14.190	ug/l	100
6) Chloroethane	1.703	64	12370m	19.961	ug/l	
7) Trichlorofluoromethane	1.904	101	27811	17.598	ug/l	96
8) Diethyl Ether	2.148	74	10229	18.320	ug/l	87
9) 1,1,2-Trichlorotrifluo...	2.343	101	18281	18.361	ug/l	95
10) Methyl Iodide	2.465	142	17397	16.119	ug/l	93
11) Tert butyl alcohol	2.959	59	13739	91.786	ug/l	100
12) 1,1-Dichloroethene	2.337	96	16458	18.283	ug/l	91
13) Acrolein	2.245	56	15730	106.466	ug/l	99
14) Allyl chloride	2.678	41	32893	18.605	ug/l	92
15) Acrylonitrile	3.075	53	58815	103.922	ug/l	98
16) Acetone	2.392	43	49904	97.070	ug/l	97
17) Carbon Disulfide	2.526	76	31958	16.854	ug/l	99
18) Methyl Acetate	2.715	43	34714	21.604	ug/l	100
19) Methyl tert-butyl Ether	3.123	73	65221	20.706	ug/l	99
20) Methylene Chloride	2.800	84	20501	18.943	ug/l	94
21) trans-1,2-Dichloroethene	3.105	96	17046	17.893	ug/l	97
22) Diisopropyl ether	3.770	45	70704	20.285	ug/l #	69
23) Vinyl Acetate	3.733	43	269237	100.048	ug/l	99
24) 1,1-Dichloroethane	3.623	63	37219	19.159	ug/l	98
25) 2-Butanone	4.568	43	75130	100.047	ug/l	97
26) 2,2-Dichloropropane	4.489	77	26460	18.348	ug/l	98
27) cis-1,2-Dichloroethene	4.501	96	22490	19.177	ug/l	94
28) Bromochloromethane	4.910	49	19065	20.576	ug/l	96
29) Tetrahydrofuran	5.019	42	46998	99.100	ug/l	99
30) Chloroform	5.105	83	40886	20.087	ug/l	98
31) Cyclohexane	5.483	56	29800	19.002	ug/l	97
32) 1,1,1-Trichloroethane	5.391	97	33124	19.024	ug/l	98
36) 1,1-Dichloropropene	5.708	75	23625	17.202	ug/l	97
37) Ethyl Acetate	4.727	43	28624	21.355	ug/l	99
38) Carbon Tetrachloride	5.684	117	28654	18.628	ug/l	95
39) Methylcyclohexane	7.385	83	28712	17.712	ug/l	95
40) Benzene	6.044	78	75303	19.477	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046640.D
 Acq On : 11 Jun 2025 16:25
 Operator : JC/MD
 Sample : VX0611WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:31:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.934	41	16302	19.585	ug/l	92
42) 1,2-Dichloroethane	6.098	62	31765	19.749	ug/l	97
43) Isopropyl Acetate	6.348	43	47778	20.446	ug/l	100
44) Trichloroethene	7.135	130	18458	18.790	ug/l	96
45) 1,2-Dichloropropane	7.434	63	20105	20.146	ug/l	97
46) Dibromomethane	7.586	93	15221	20.275	ug/l	97
47) Bromodichloromethane	7.824	83	31945	20.694	ug/l #	96
48) Methyl methacrylate	7.696	41	24465	20.349	ug/l	95
49) 1,4-Dioxane	7.665	88	6511	404.966	ug/l	100
51) 4-Methyl-2-Pentanone	8.574	43	159397	107.344	ug/l	99
52) Toluene	8.720	92	48054	20.231	ug/l	98
53) t-1,3-Dichloropropene	8.982	75	27824	20.103	ug/l	99
54) cis-1,3-Dichloropropene	8.366	75	30720	19.963	ug/l	92
55) 1,1,2-Trichloroethane	9.153	97	20744	21.755	ug/l	98
56) Ethyl methacrylate	9.116	69	30259	20.621	ug/l	96
57) 1,3-Dichloropropane	9.311	76	35747	21.214	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.244	63	87410	109.363	ug/l	99
59) 2-Hexanone	9.433	43	115051	108.033	ug/l	99
60) Dibromochloromethane	9.518	129	23909	21.317	ug/l	99
61) 1,2-Dibromoethane	9.610	107	20915	21.049	ug/l	97
64) Tetrachloroethene	9.275	164	14417	17.993	ug/l	95
65) Chlorobenzene	10.079	112	54850	19.463	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.159	131	19685	20.671	ug/l	99
67) Ethyl Benzene	10.195	91	94773	19.264	ug/l	100
68) m/p-Xylenes	10.299	106	69436	38.908	ug/l	100
69) o-Xylene	10.640	106	34773	20.145	ug/l	96
70) Styrene	10.652	104	60329	20.417	ug/l	98
71) Bromoform	10.799	173	15433	21.255	ug/l #	97
73) Isopropylbenzene	10.963	105	93656	18.967	ug/l	99
74) N-amyl acetate	10.841	43	41695	19.174	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.213	83	32424	20.514	ug/l	98
76) 1,2,3-Trichloropropane	11.238	75	26792m	20.136	ug/l	
77) Bromobenzene	11.195	156	22356	19.505	ug/l	96
78) n-propylbenzene	11.305	91	111616	18.675	ug/l	100
79) 2-Chlorotoluene	11.360	91	68566	19.024	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	77599	18.858	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	8404	18.220	ug/l	98
82) 4-Chlorotoluene	11.451	91	81676	19.119	ug/l	99
83) tert-Butylbenzene	11.713	119	80867	19.305	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	79569	19.115	ug/l	100
85) sec-Butylbenzene	11.890	105	103489	19.228	ug/l	99
86) p-Isopropyltoluene	12.006	119	85447	19.043	ug/l	98
87) 1,3-Dichlorobenzene	11.969	146	43541	19.563	ug/l	97
88) 1,4-Dichlorobenzene	12.042	146	43971	19.066	ug/l	99
89) n-Butylbenzene	12.329	91	82075	18.626	ug/l	99
90) Hexachloroethane	12.536	117	14235	17.849	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	42476	19.771	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.939	75	6814	19.252	ug/l	93
93) 1,2,4-Trichlorobenzene	13.585	180	27331	18.649	ug/l	99
94) Hexachlorobutadiene	13.725	225	11785	17.304	ug/l	98
95) Naphthalene	13.774	128	93298	20.075	ug/l	99
96) 1,2,3-Trichlorobenzene	13.957	180	27401	18.646	ug/l	98

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
Data File : VX046640.D
Acq On : 11 Jun 2025 16:25
Operator : JC/MD
Sample : VX0611WBSD02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Manual Integrations
APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:31:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
Quant Title : SW846 8260
QLast Update : Fri Jun 06 16:56:12 2025
Response via : Initial Calibration

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

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

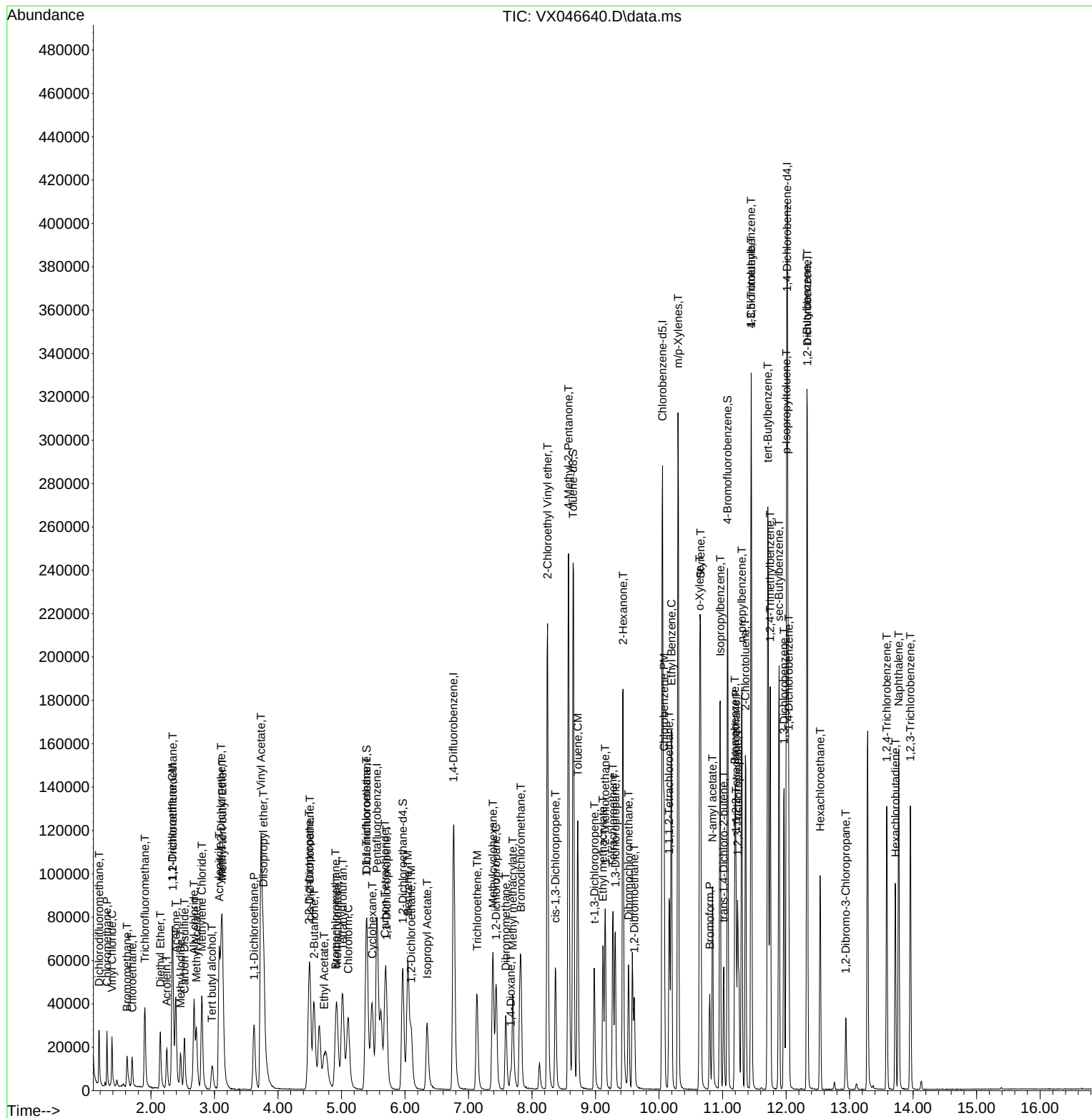
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 Data File : VX046640.D
 Acq On : 11 Jun 2025 16:25
 Operator : JC/MD
 Sample : VX0611WBSD02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

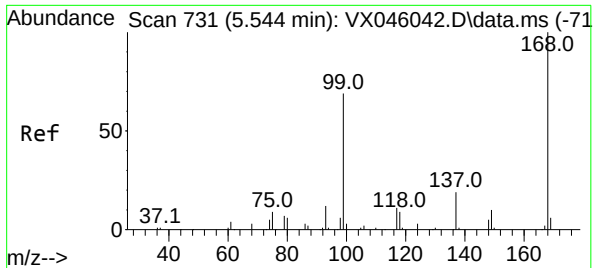
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBSD02

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

Quant Time: Jun 12 02:31:28 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X060625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 06 16:56:12 2025
 Response via : Initial Calibration





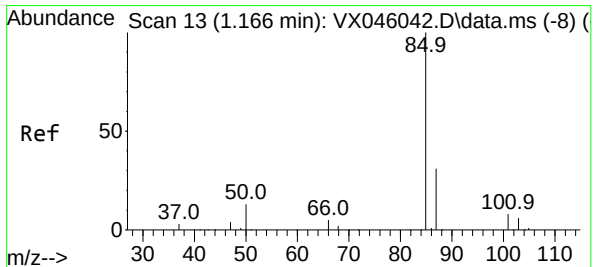
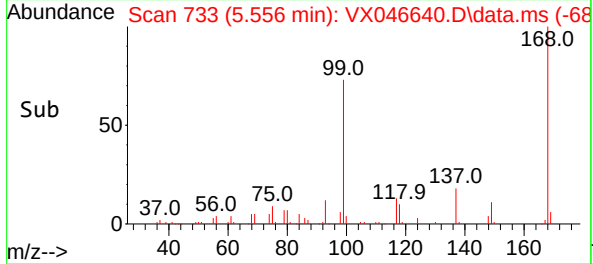
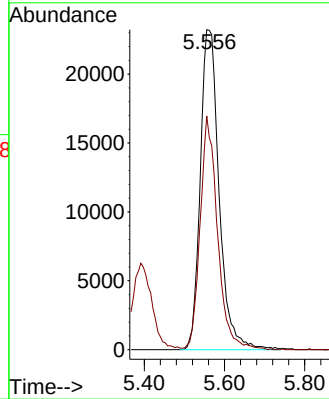
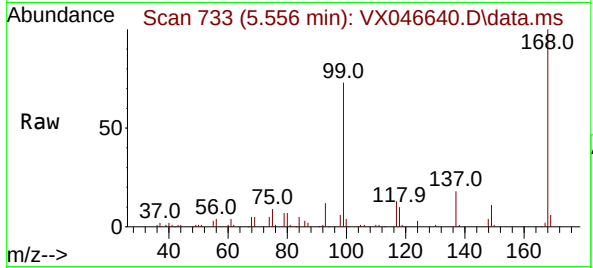
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.012 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion:168 Resp: 7582
Ion Ratio Lower Upper
168 100
99 73.1 54.9 82.3

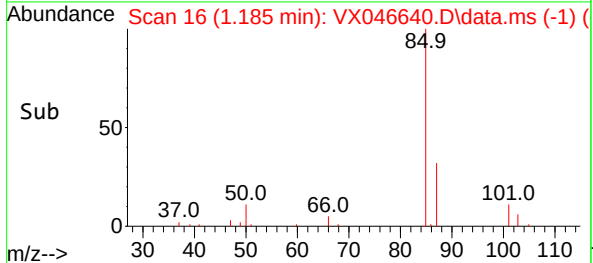
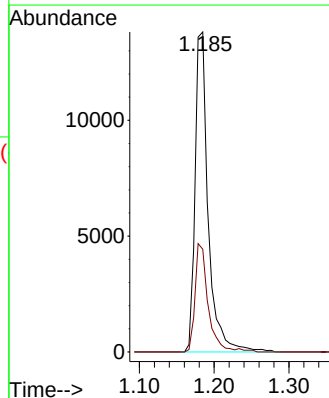
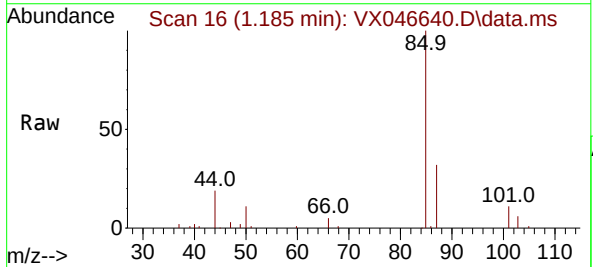
Manual Integrations
APPROVED

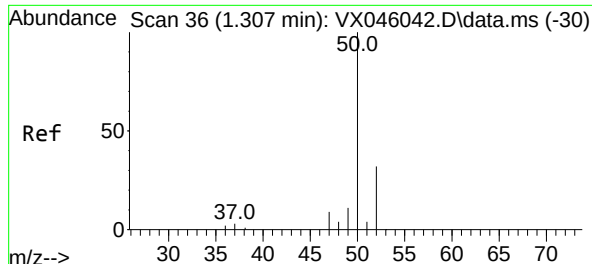
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#2
Dichlorodifluoromethane
Concen: 16.029 ug/l
RT: 1.185 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 85 Resp: 16873
Ion Ratio Lower Upper
85 100
87 32.1 15.7 47.1





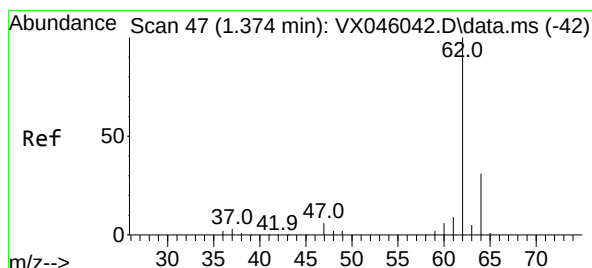
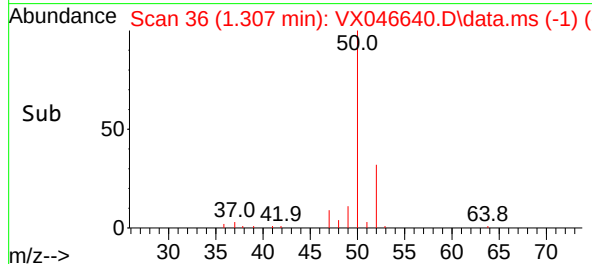
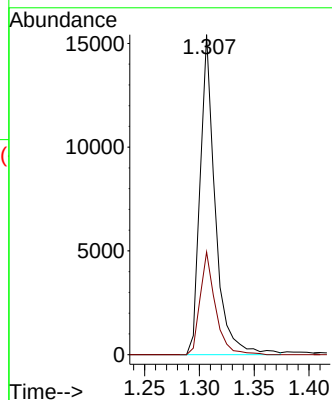
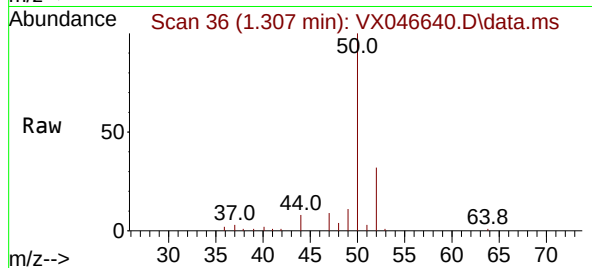
#3
Chloromethane
Concen: 15.461 ug/l
RT: 1.307 min Scan# 30
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 50 Resp: 14814
Ion Ratio Lower Upper
50 100
52 32.1 25.4 38.2

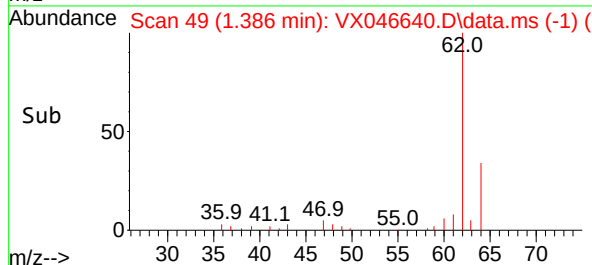
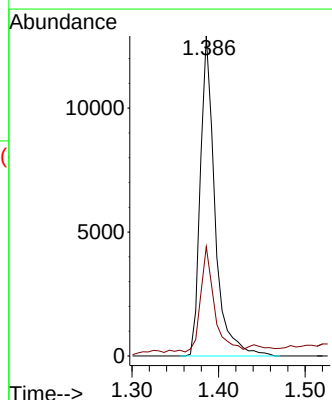
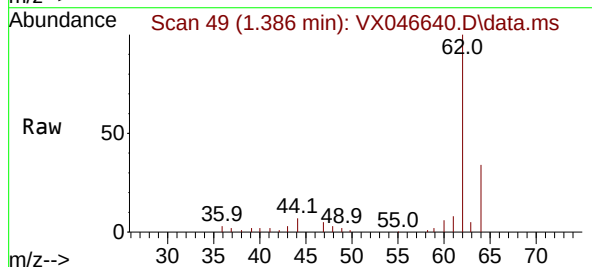
Manual Integrations
APPROVED

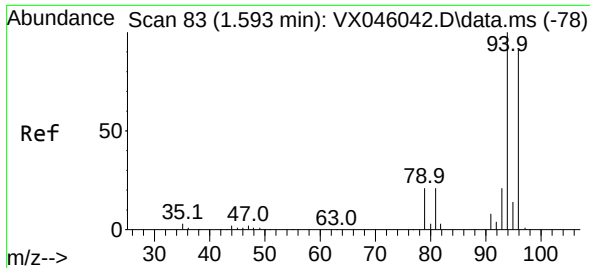
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#4
Vinyl Chloride
Concen: 15.847 ug/l
RT: 1.386 min Scan# 49
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 62 Resp: 15136
Ion Ratio Lower Upper
62 100
64 32.3 25.2 37.8





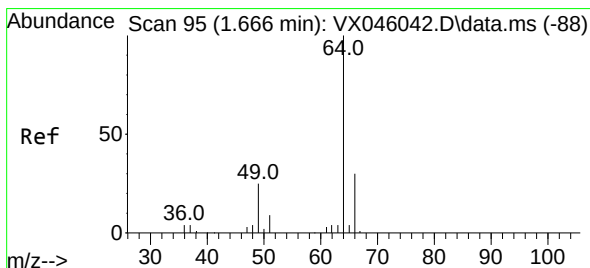
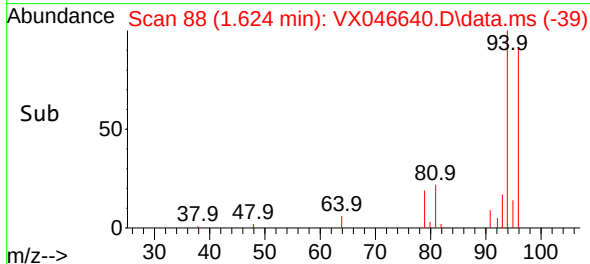
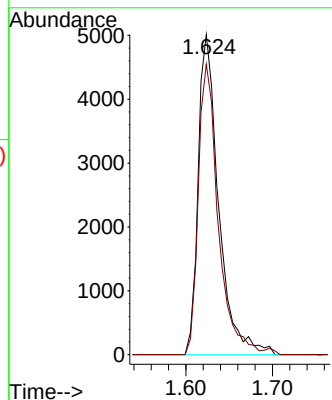
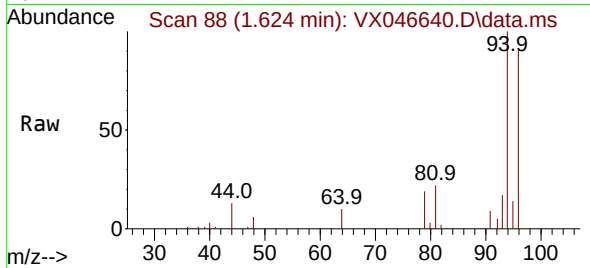
#5
Bromomethane
Concen: 14.190 ug/l
RT: 1.624 min Scan# 80
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 94 Resp: 8228
Ion Ratio Lower Upper
94 100
96 90.8 72.8 109.2

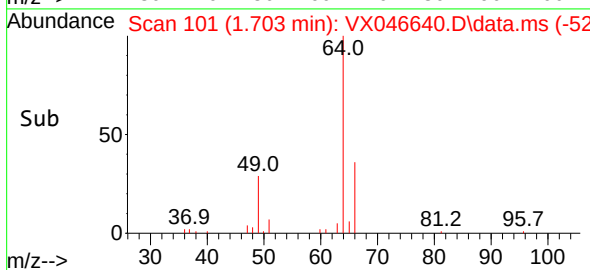
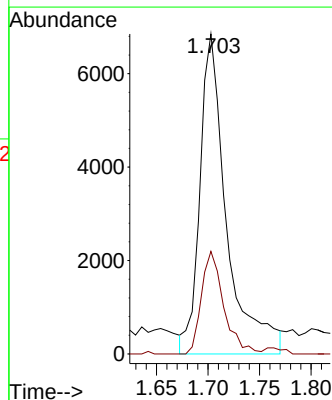
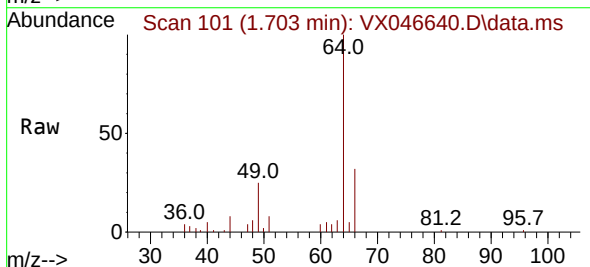
Manual Integrations
APPROVED

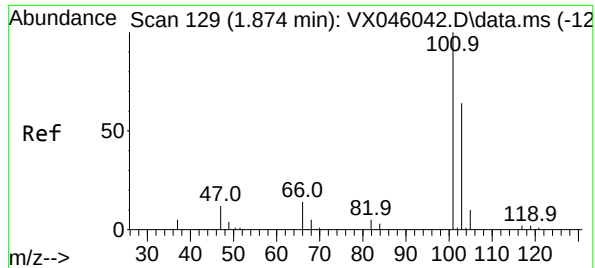
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#6
Chloroethane
Concen: 19.961 ug/l m
RT: 1.703 min Scan# 101
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

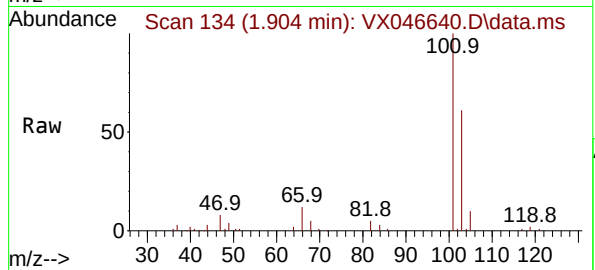
Tgt Ion: 64 Resp: 12370
Ion Ratio Lower Upper
64 100
66 32.1 24.3 36.5





#7
Trichlorofluoromethane
Concen: 17.598 ug/l
RT: 1.904 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

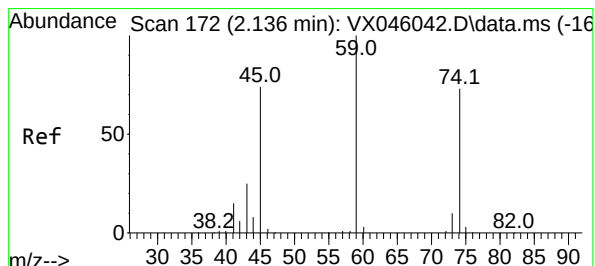
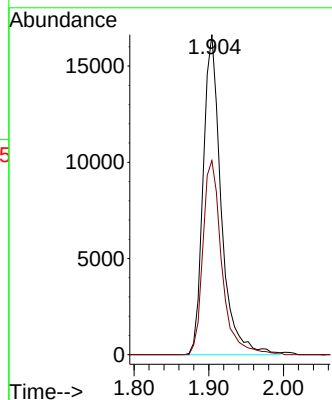
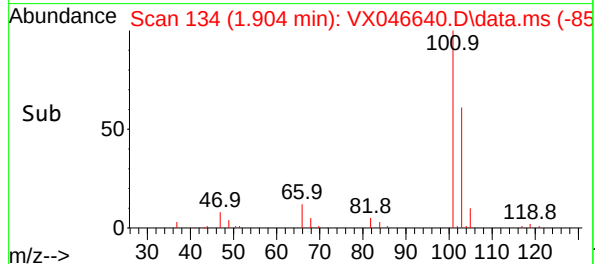
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



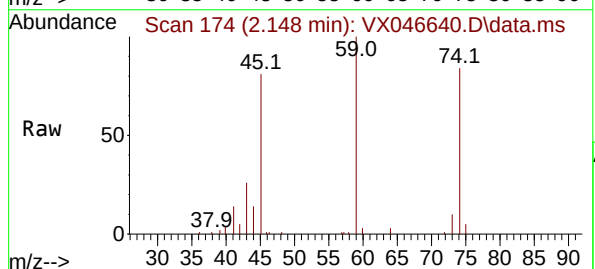
Tgt Ion:101 Resp: 2781
Ion Ratio Lower Upper
101 100
103 60.7 51.0 76.4

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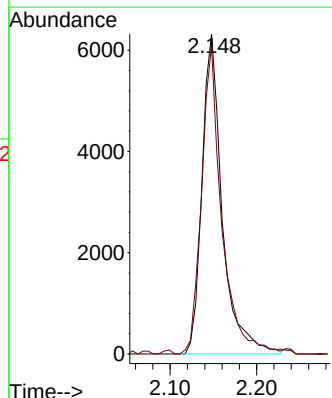
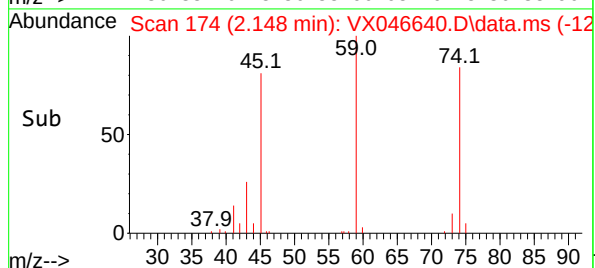
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

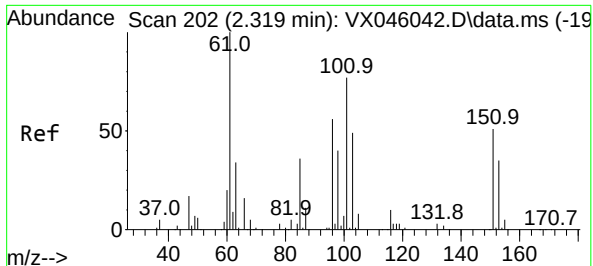


#8
Diethyl Ether
Concen: 18.320 ug/l
RT: 2.148 min Scan# 174
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25



Tgt Ion: 74 Resp: 10229
Ion Ratio Lower Upper
74 100
45 96.6 54.9 164.8





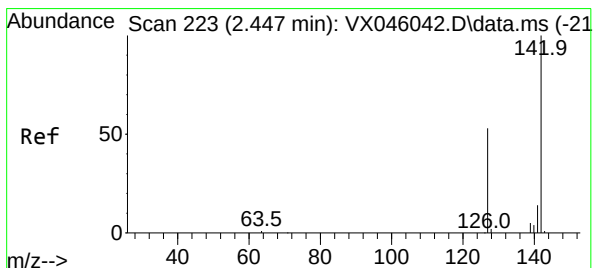
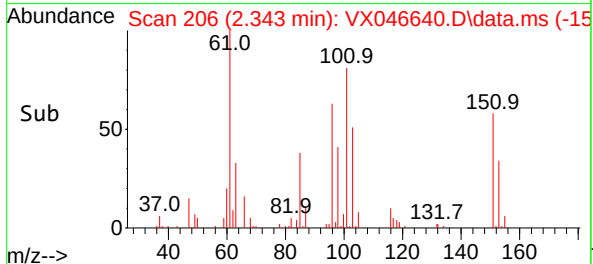
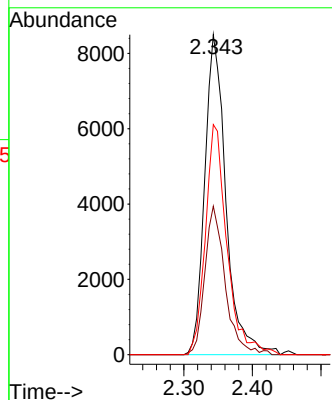
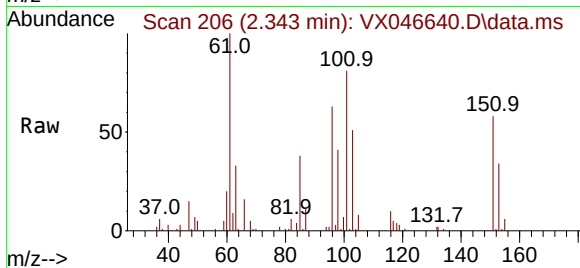
#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.361 ug/l
RT: 2.343 min Scan# 206
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion:101 Resp: 1828
Ion Ratio Lower Upper
101 100
85 44.7 38.6 58.0
151 73.1 55.2 82.8

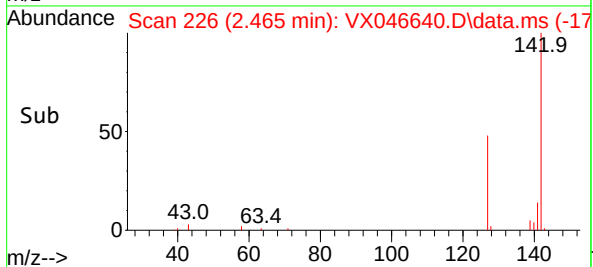
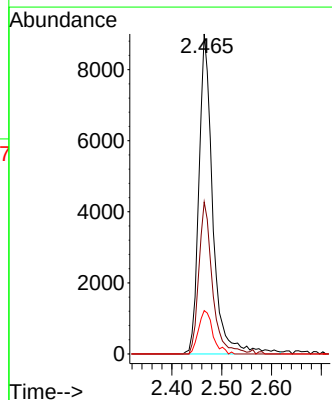
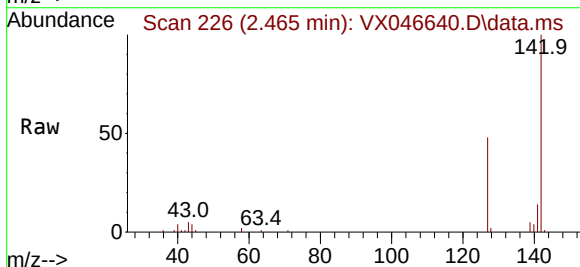
Manual Integrations
APPROVED

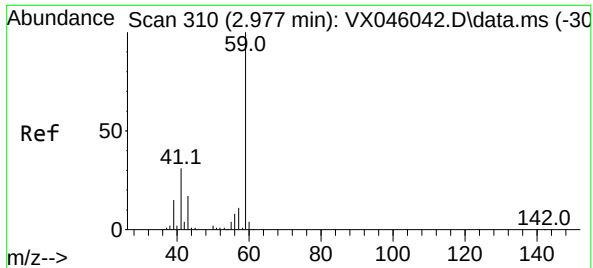
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#10
Methyl Iodide
Concen: 16.119 ug/l
RT: 2.465 min Scan# 226
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion:142 Resp: 17397
Ion Ratio Lower Upper
142 100
127 46.1 41.7 62.5
141 14.0 11.5 17.3





#11

Tert butyl alcohol

Concen: 91.786 ug/l

RT: 2.959 min Scan# 307

Delta R.T. -0.012 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 59 Resp: 13739

Ion Ratio Lower Upper

59 100

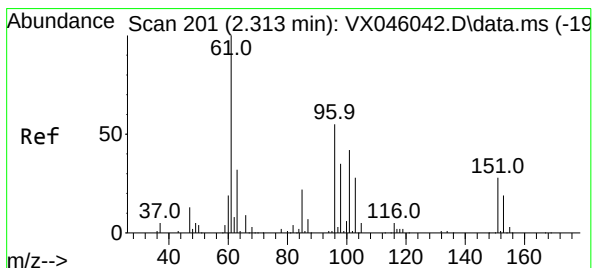
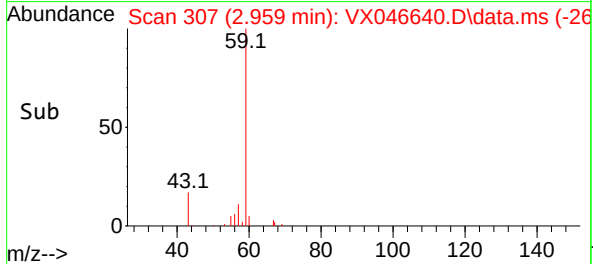
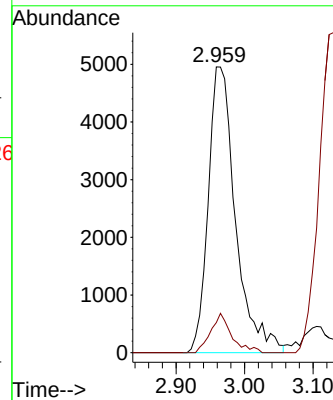
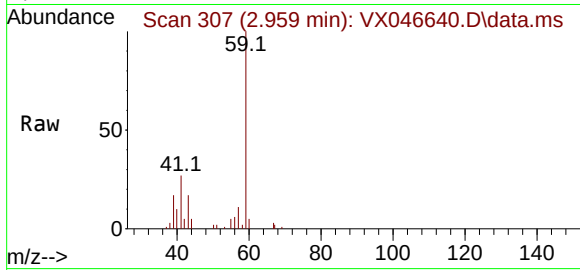
57 10.5 8.6 12.8

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#12

1,1-Dichloroethene

Concen: 18.283 ug/l

RT: 2.337 min Scan# 205

Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

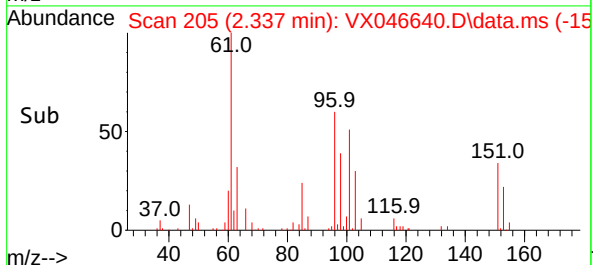
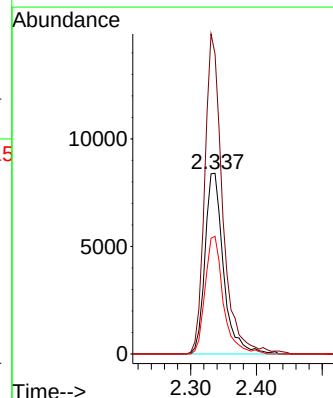
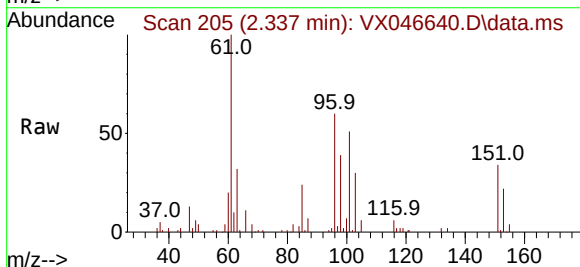
Tgt Ion: 96 Resp: 16458

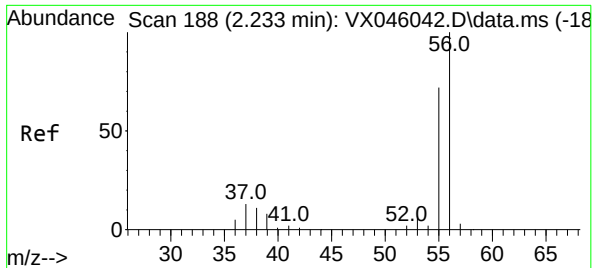
Ion Ratio Lower Upper

96 100

61 166.1 146.2 219.2

98 65.1 51.0 76.6





#13

Acrolein

Concen: 106.466 ug/l

RT: 2.245 min Scan# 190

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 56 Resp: 15730

Ion Ratio Lower Upper

56 100

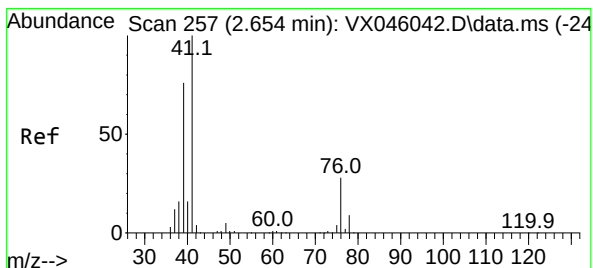
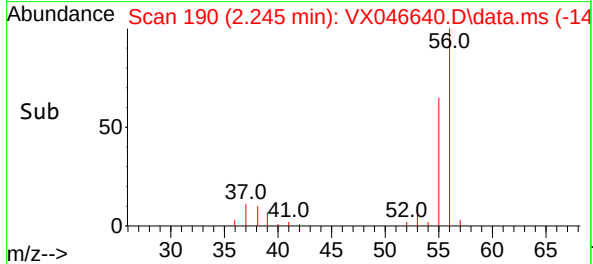
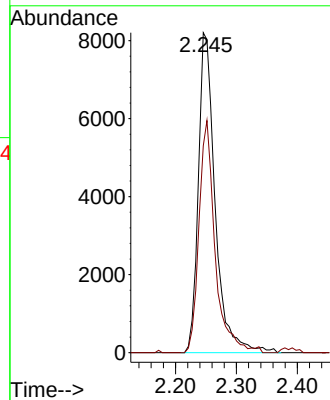
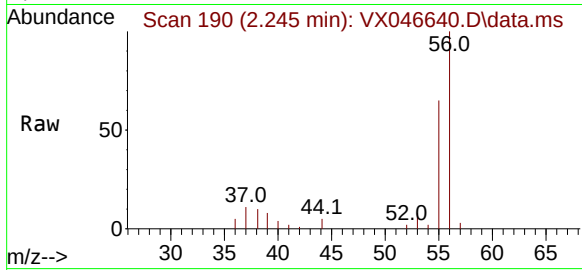
55 69.7 56.2 84.4

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#14

Allyl chloride

Concen: 18.605 ug/l

RT: 2.678 min Scan# 261

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

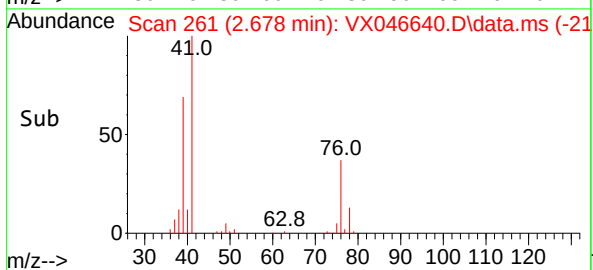
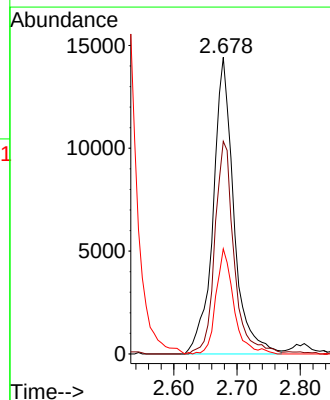
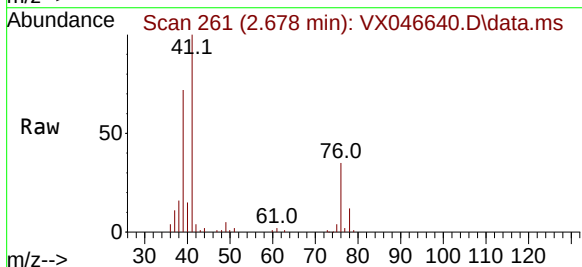
Tgt Ion: 41 Resp: 32893

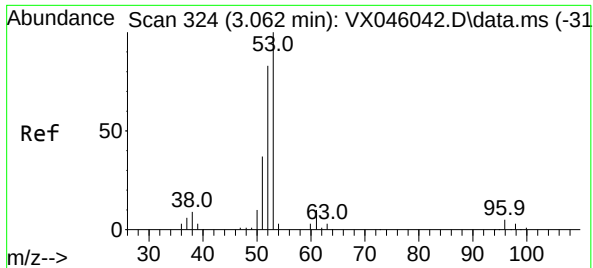
Ion Ratio Lower Upper

41 100

39 66.2 60.6 90.8

76 30.4 24.9 37.3





#15

Acrylonitrile

Concen: 103.922 ug/l

RT: 3.075 min Scan# 31

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

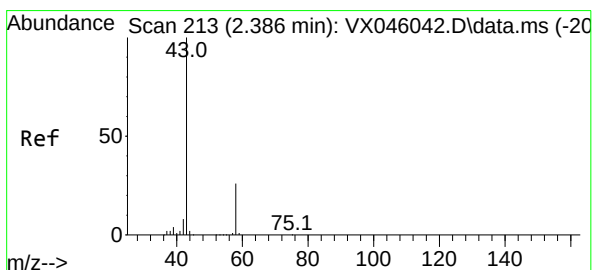
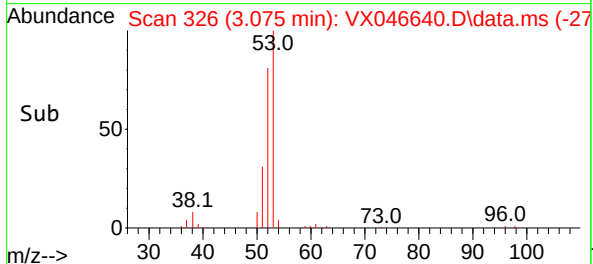
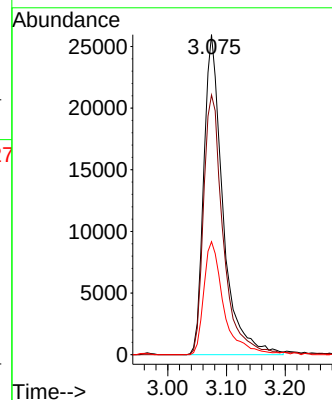
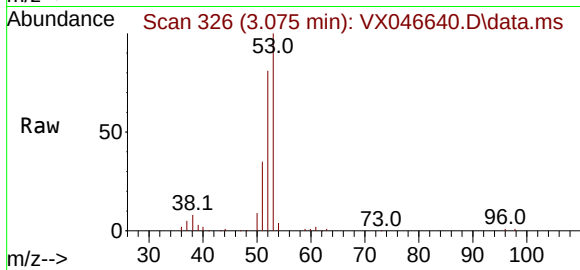
Tgt Ion: 53	Resp: 5881
Ion Ratio	Lower Upper
53 100	
52 83.7	65.3 97.9
51 36.7	29.8 44.8

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#16

Acetone

Concen: 97.070 ug/l

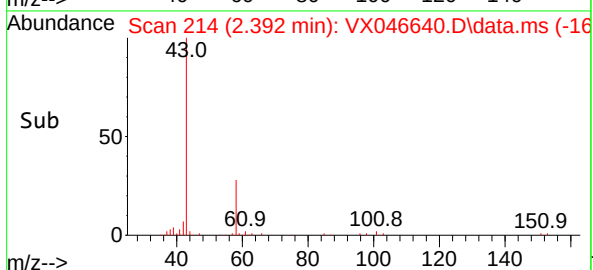
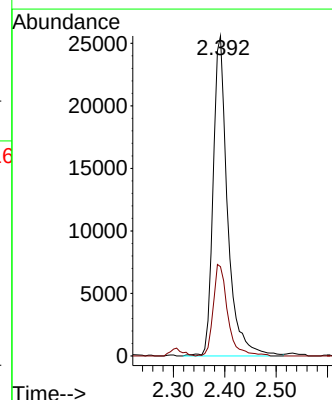
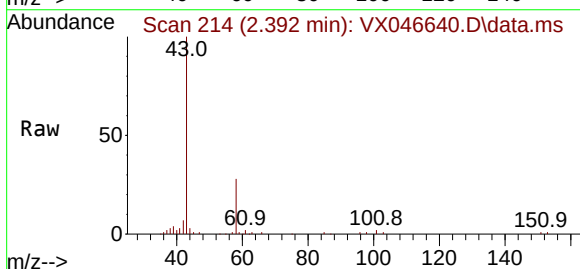
RT: 2.392 min Scan# 214

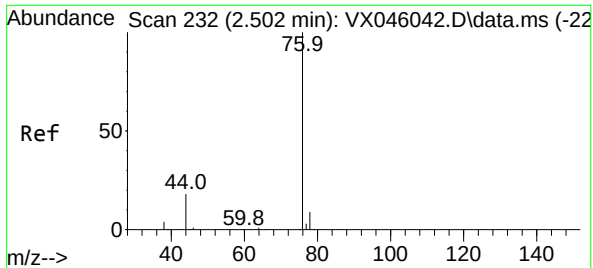
Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Tgt Ion: 43	Resp: 49904
Ion Ratio	Lower Upper
43 100	
58 27.9	21.2 31.8





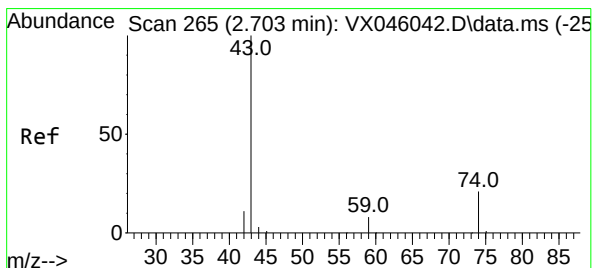
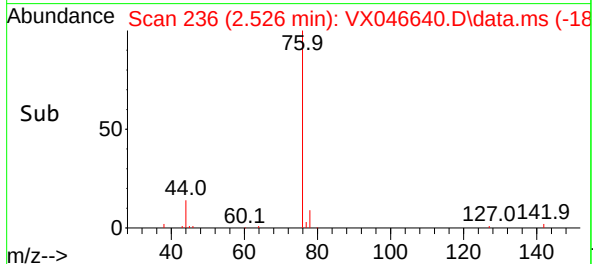
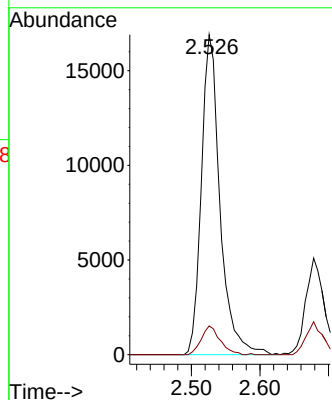
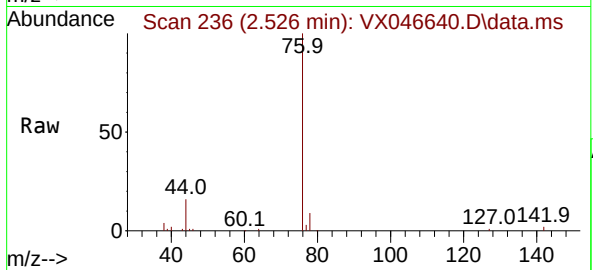
#17
Carbon Disulfide
Concen: 16.854 ug/l
RT: 2.526 min Scan# 21958
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 76 Resp: 31958
Ion Ratio Lower Upper
76 100
78 9.0 7.0 10.4

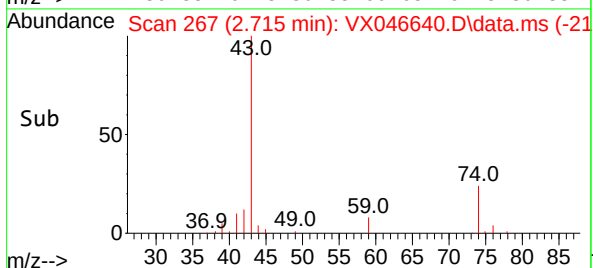
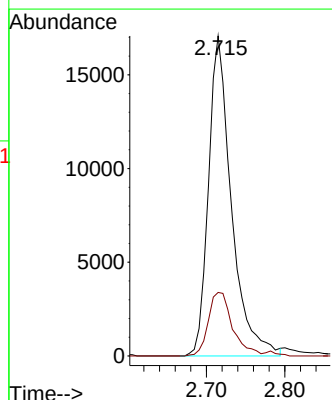
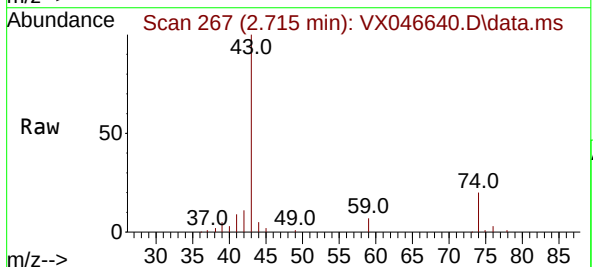
Manual Integrations
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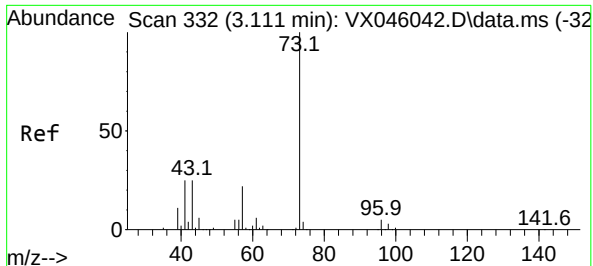
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#18
Methyl Acetate
Concen: 21.604 ug/l
RT: 2.715 min Scan# 267
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 43 Resp: 34714
Ion Ratio Lower Upper
43 100
74 21.0 16.7 25.1





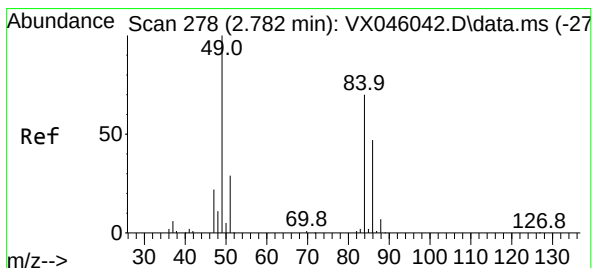
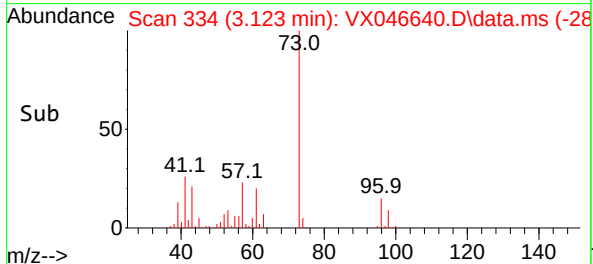
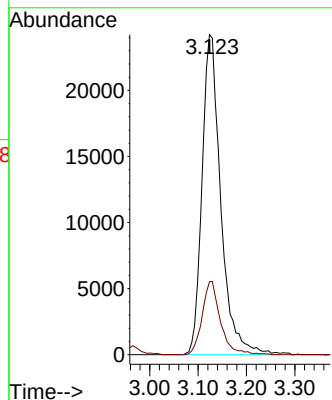
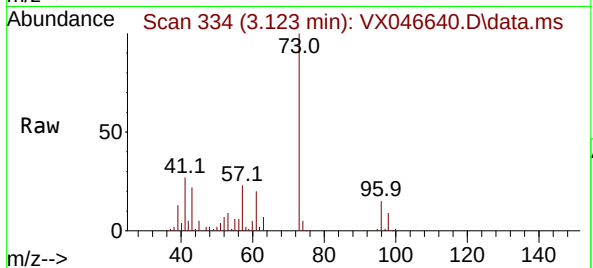
#19
Methyl tert-butyl Ether
Concen: 20.706 ug/l
RT: 3.123 min Scan# 31
Delta R.T. -0.012 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 73 Resp: 6522
Ion Ratio Lower Upper
73 100
57 22.8 17.7 26.5

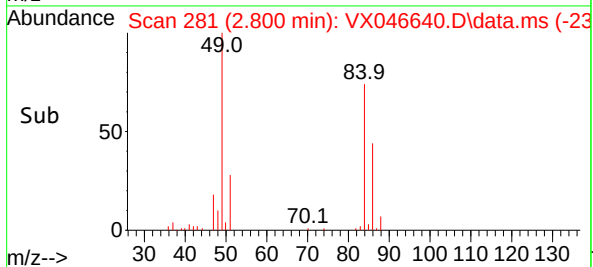
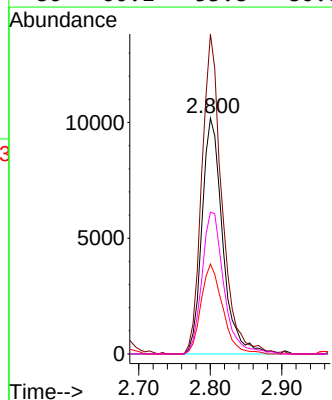
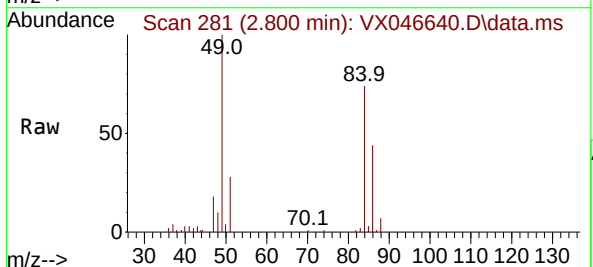
Manual Integrations
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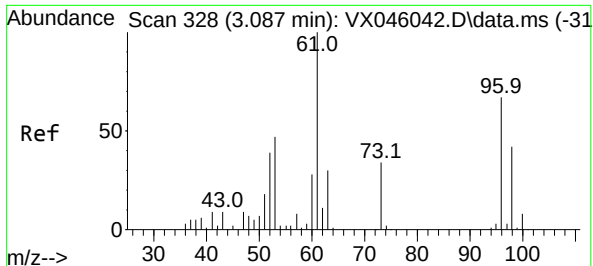
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#20
Methylene Chloride
Concen: 18.943 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

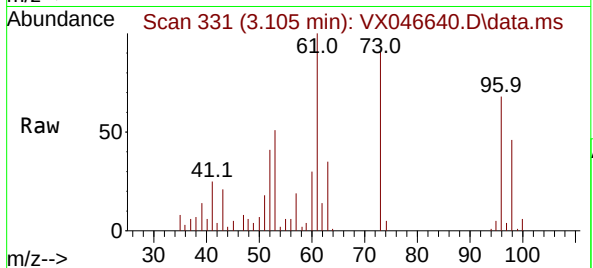
Tgt Ion: 84 Resp: 20501
Ion Ratio Lower Upper
84 100
49 135.7 113.9 170.9
51 38.1 33.5 50.3
86 60.1 53.8 80.8





#21
trans-1,2-Dichloroethene
Concen: 17.893 ug/l
RT: 3.105 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

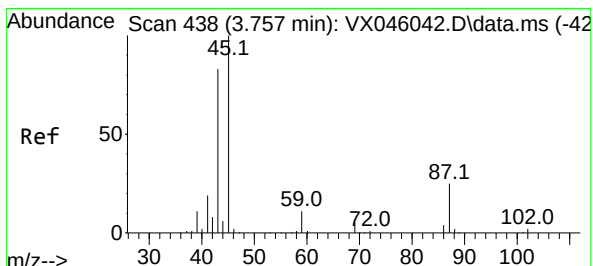
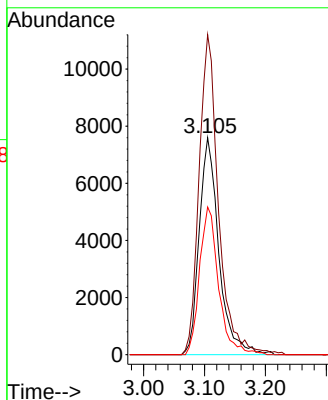
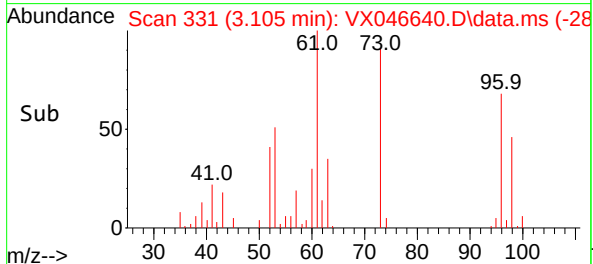
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion: 96 Resp: 17040
Ion Ratio Lower Upper
96 100
61 147.5 119.5 179.3
98 68.1 50.0 75.0

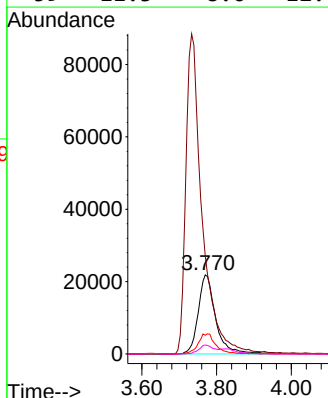
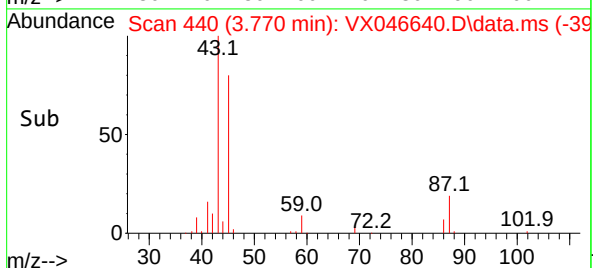
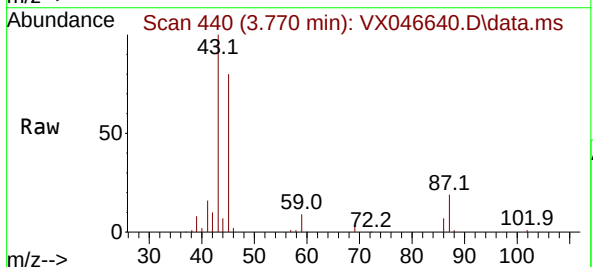
Manual Integrations
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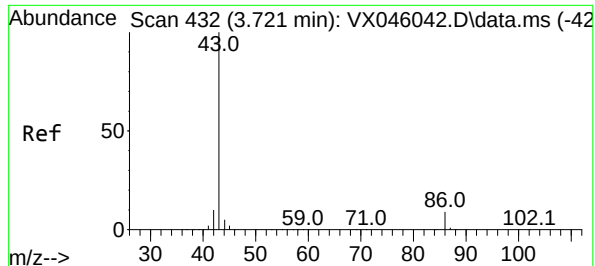
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#22
Diisopropyl ether
Concen: 20.285 ug/l
RT: 3.770 min Scan# 440
Delta R.T. -0.012 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

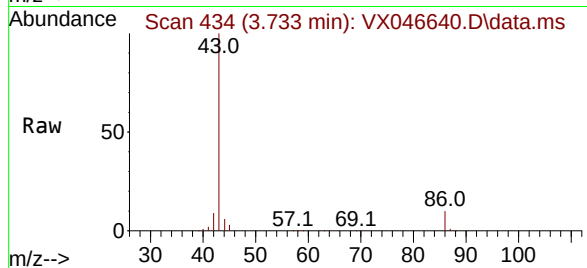
Tgt Ion: 45 Resp: 70704
Ion Ratio Lower Upper
45 100
43 122.7 66.6 100.0#
87 23.8 19.8 29.6
59 11.3 8.6 12.8





#23
 Vinyl Acetate
 Concen: 100.048 ug/l
 RT: 3.733 min Scan# 416
 Delta R.T. -0.006 min
 Lab File: VX046640.D
 Acq: 11 Jun 2025 16:25

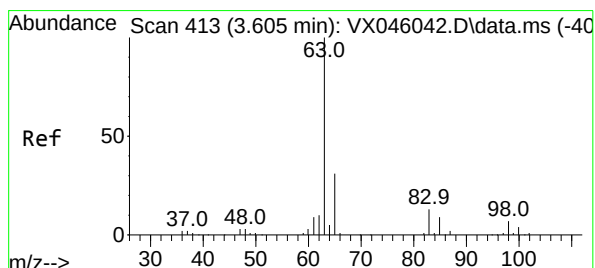
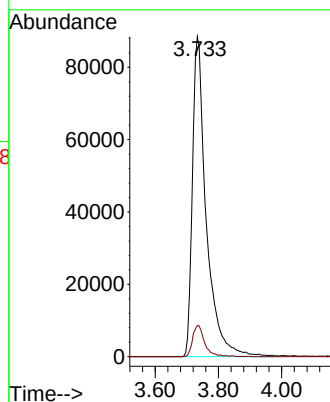
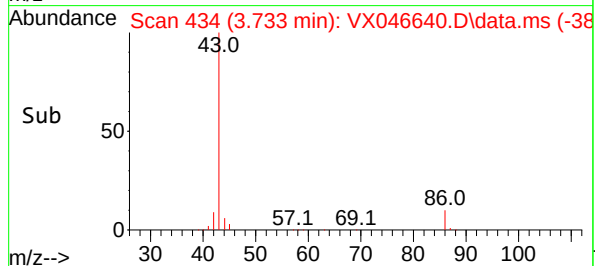
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBSD02



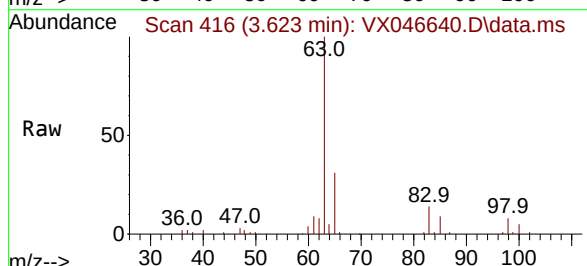
Tgt Ion: 43 Resp: 26923
 Ion Ratio Lower Upper
 43 100
 86 9.8 7.5 11.3

Manual Integrations
 APPROVED

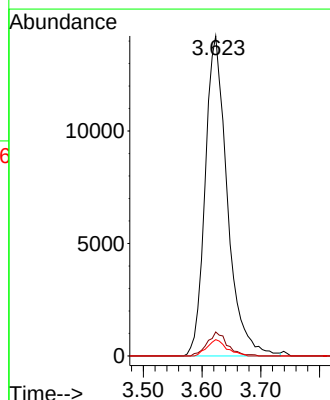
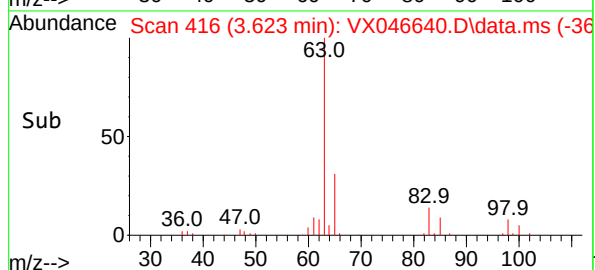
Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025

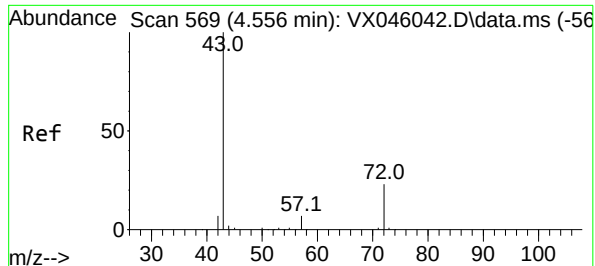


#24
 1,1-Dichloroethane
 Concen: 19.159 ug/l
 RT: 3.623 min Scan# 416
 Delta R.T. -0.006 min
 Lab File: VX046640.D
 Acq: 11 Jun 2025 16:25



Tgt Ion: 63 Resp: 37219
 Ion Ratio Lower Upper
 63 100
 98 7.5 3.6 10.8
 100 5.1 2.1 6.3





#25

2-Butanone

Concen: 100.047 ug/l

RT: 4.568 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 43 Resp: 75130

Ion Ratio Lower Upper

43 100

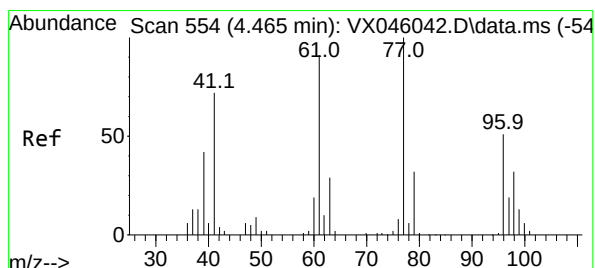
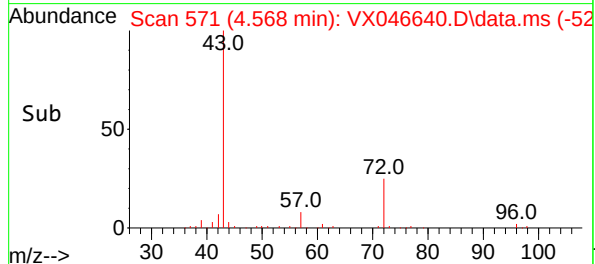
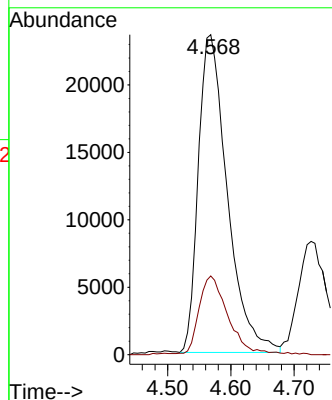
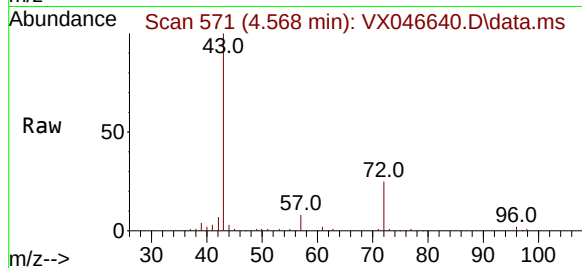
72 24.3 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#26

2,2-Dichloropropane

Concen: 18.348 ug/l

RT: 4.489 min Scan# 558

Delta R.T. -0.006 min

Lab File: VX046640.D

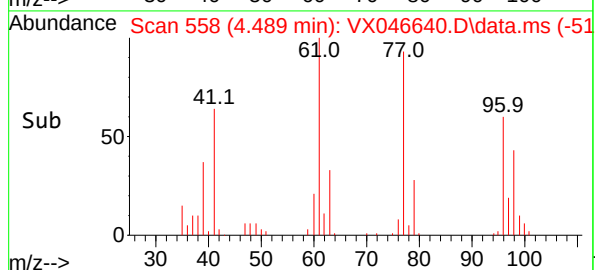
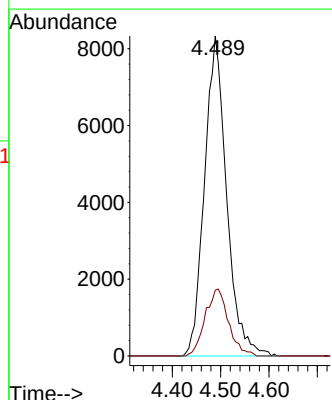
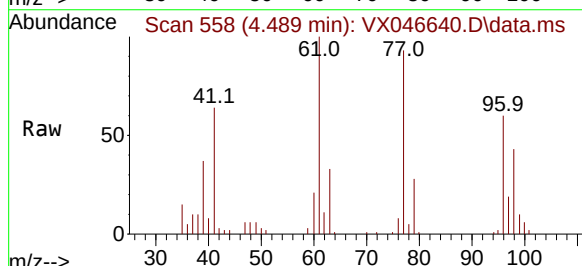
Acq: 11 Jun 2025 16:25

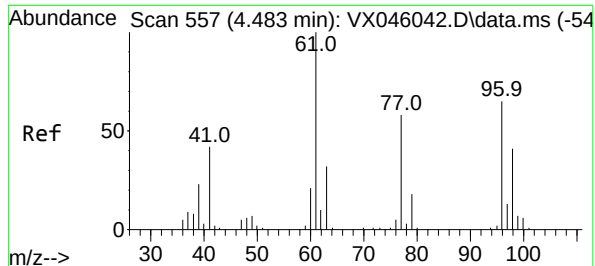
Tgt Ion: 77 Resp: 26460

Ion Ratio Lower Upper

77 100

97 22.0 10.5 31.5





#27

cis-1,2-Dichloroethene

Concen: 19.177 ug/l

RT: 4.501 min Scan# 51

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 96 Resp: 22490

Ion Ratio Lower Upper

96 100

61 151.9 0.0 322.8

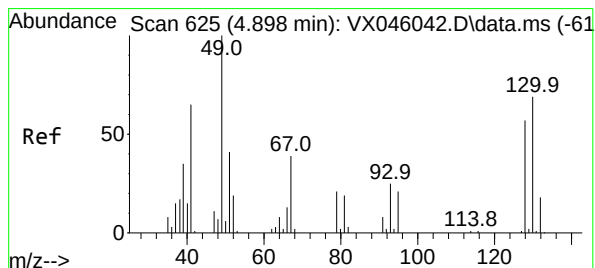
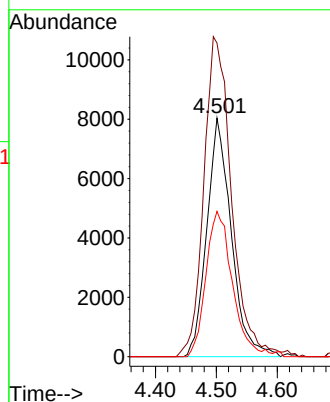
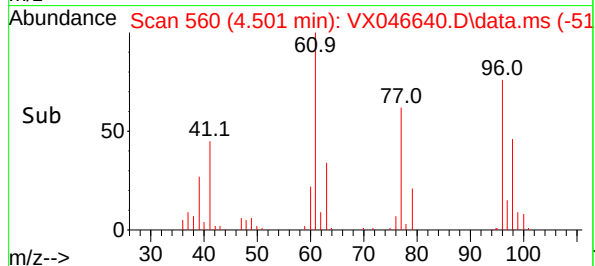
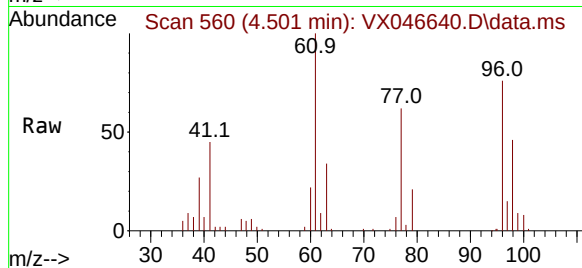
98 65.6 0.0 129.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#28

Bromochloromethane

Concen: 20.576 ug/l

RT: 4.910 min Scan# 627

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

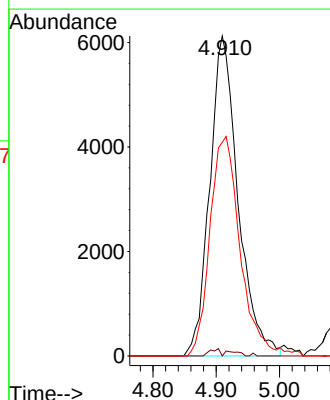
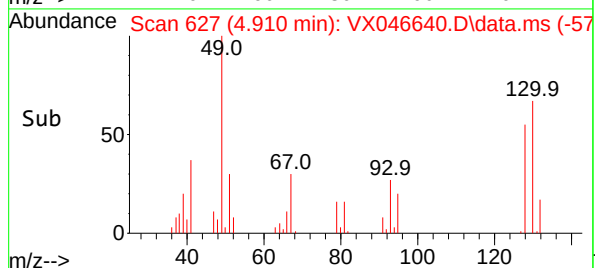
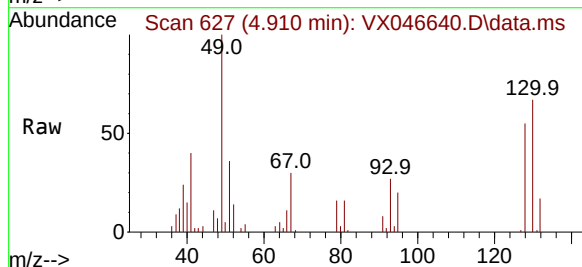
Tgt Ion: 49 Resp: 19065

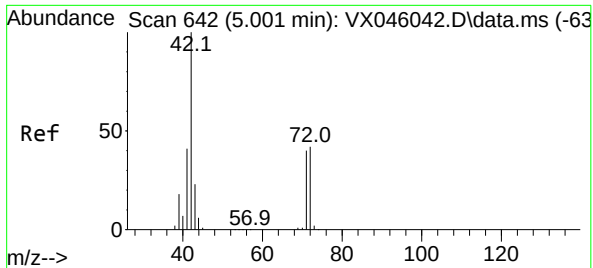
Ion Ratio Lower Upper

49 100

129 0.7 0.0 4.0

130 73.1 56.2 84.2





#29

Tetrahydrofuran

Concen: 99.100 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

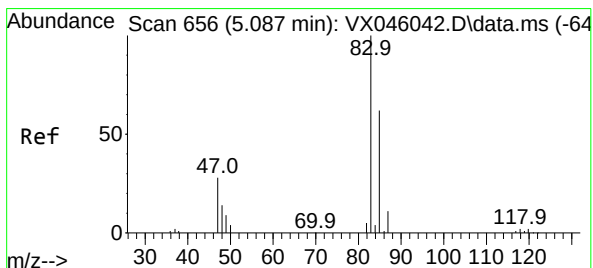
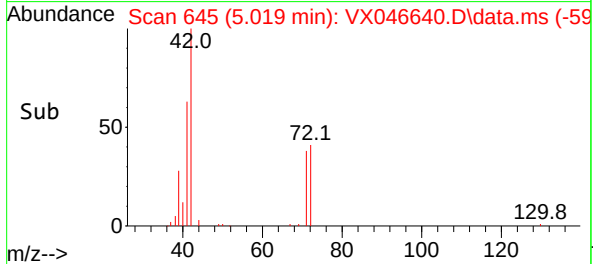
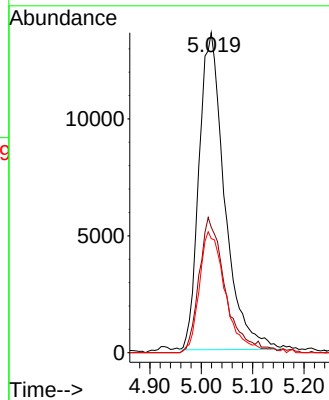
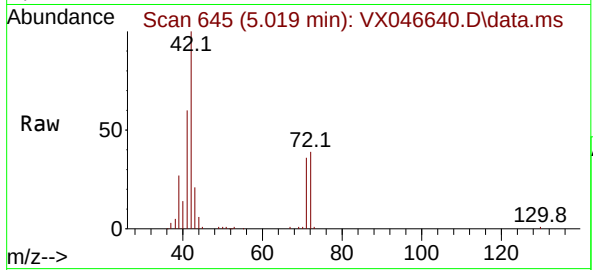
Tgt Ion:	42	Resp:	46998
Ion	Ratio	Lower	Upper
42	100		
72	43.7	33.7	50.5
71	39.3	31.4	47.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#30

Chloroform

Concen: 20.087 ug/l

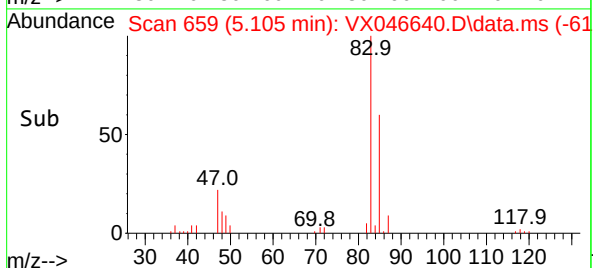
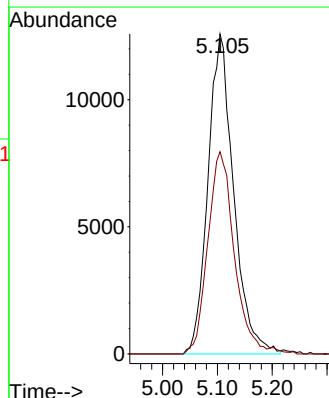
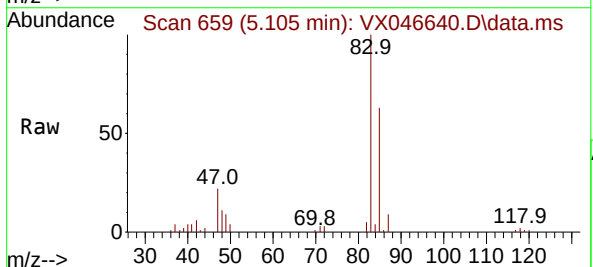
RT: 5.105 min Scan# 659

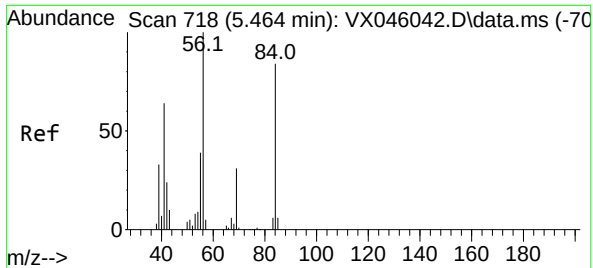
Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Tgt Ion:	83	Resp:	40886
Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.3	73.9





#31

Cyclohexane

Concen: 19.002 ug/l

RT: 5.483 min Scan# 718

Delta R.T. -0.006 min

Lab File: VX046640.D

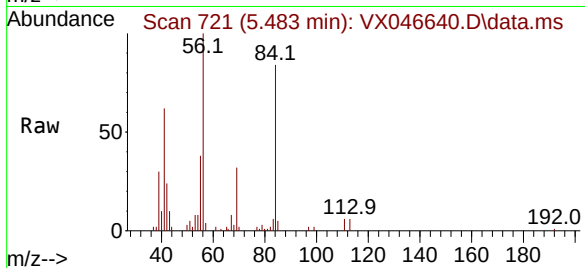
Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02



Tgt Ion: 56 Resp: 29800

Ion Ratio Lower Upper

56 100

69 32.4 24.4 36.6

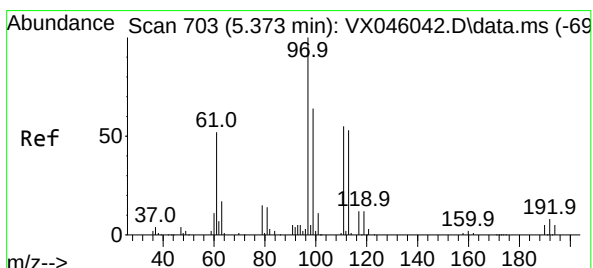
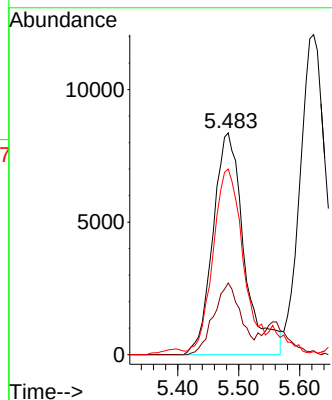
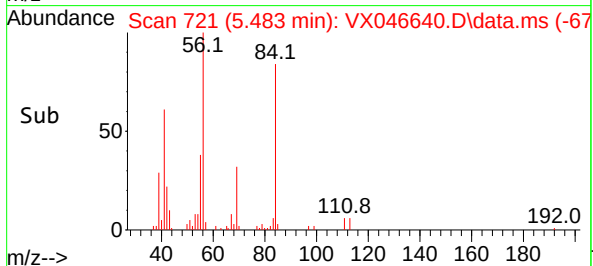
84 81.5 66.9 100.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#32

1,1,1-Trichloroethane

Concen: 19.024 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

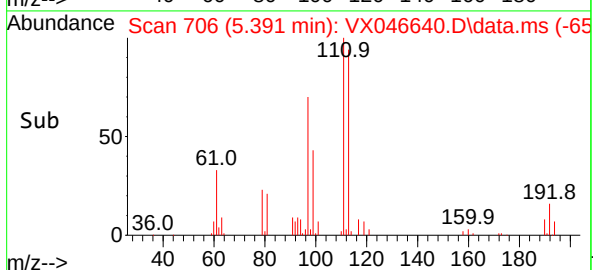
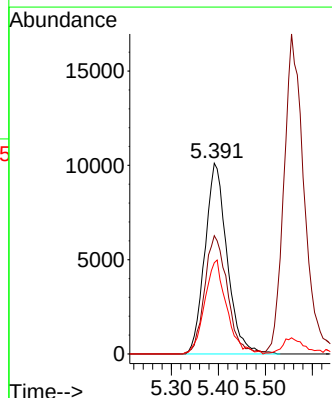
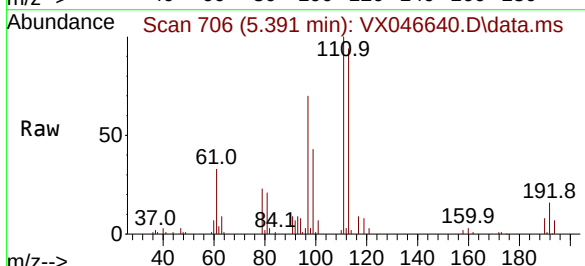
Tgt Ion: 97 Resp: 33124

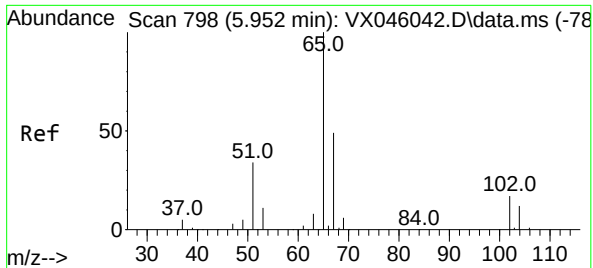
Ion Ratio Lower Upper

97 100

99 63.6 51.8 77.6

61 48.8 40.1 60.1





#33

1,2-Dichloroethane-d4

Concen: 44.445 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 65 Resp: 5995

Ion Ratio Lower Upper

65 100

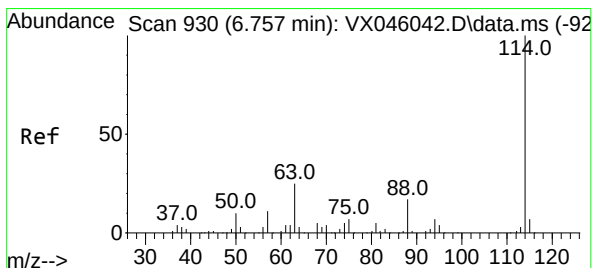
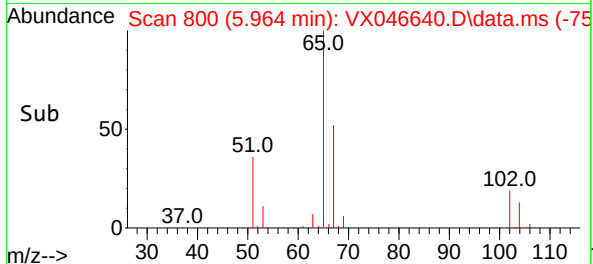
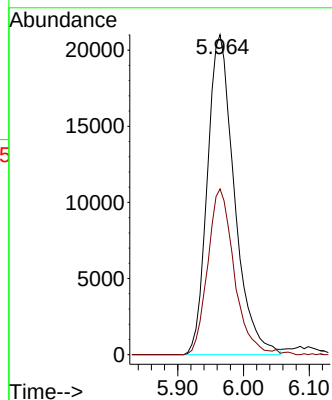
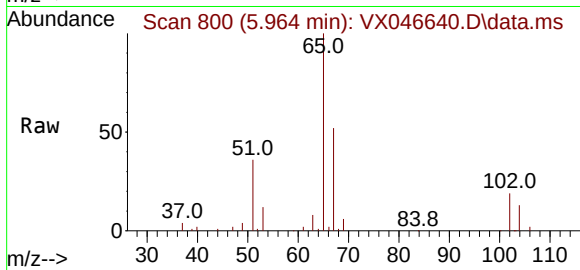
67 51.1 0.0 99.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.012 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

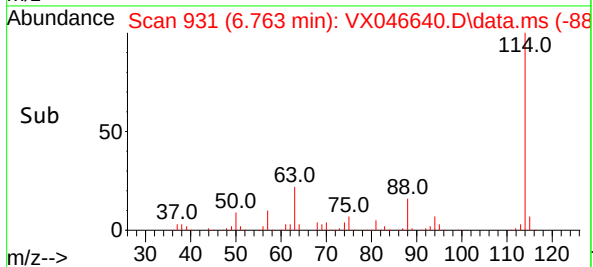
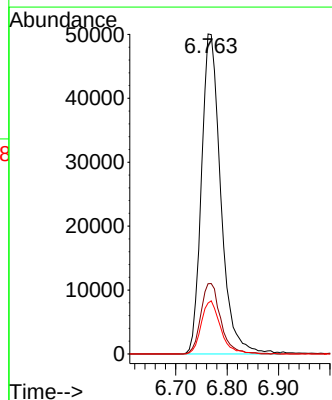
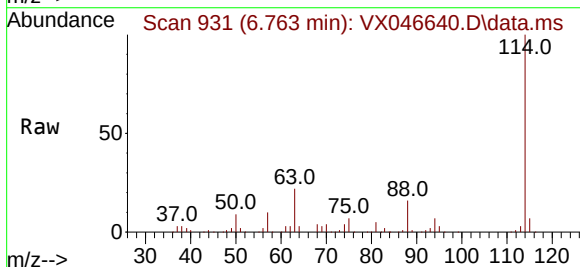
Tgt Ion:114 Resp: 130739

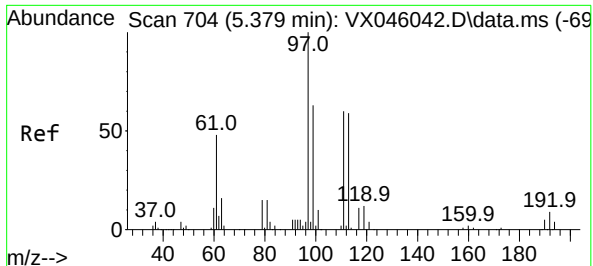
Ion Ratio Lower Upper

114 100

63 21.9 0.0 49.2

88 15.9 0.0 33.6





#35

Dibromofluoromethane

Concen: 47.363 ug/l

RT: 5.397 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion:113 Resp: 4553

Ion Ratio Lower Upper

113 100

111 104.7 83.1 124.7

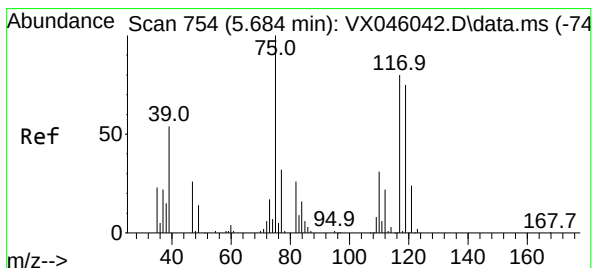
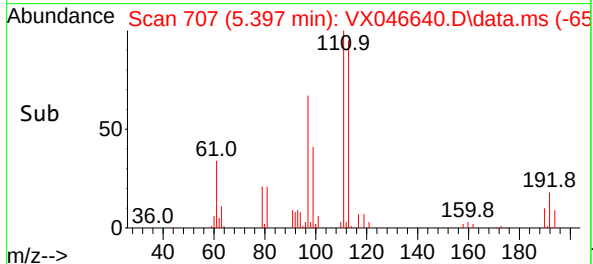
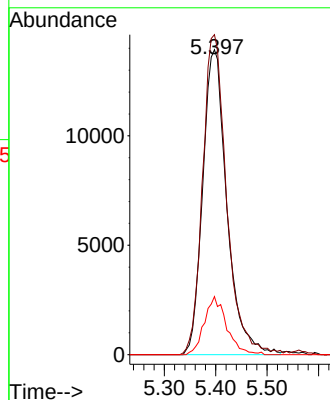
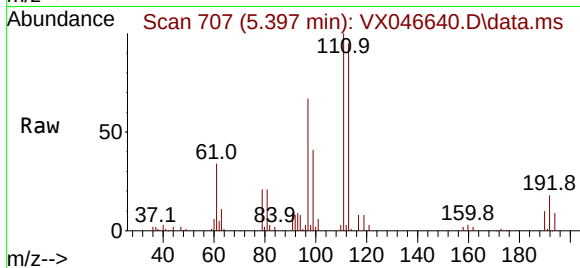
192 17.6 13.3 19.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#36

1,1-Dichloropropene

Concen: 17.202 ug/l

RT: 5.708 min Scan# 758

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

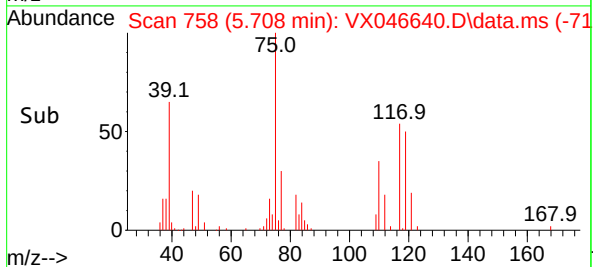
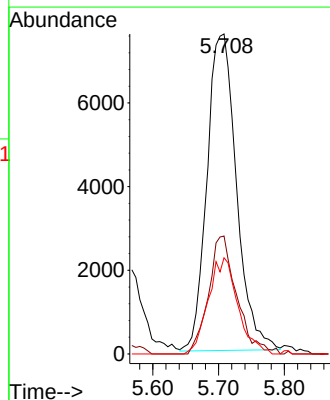
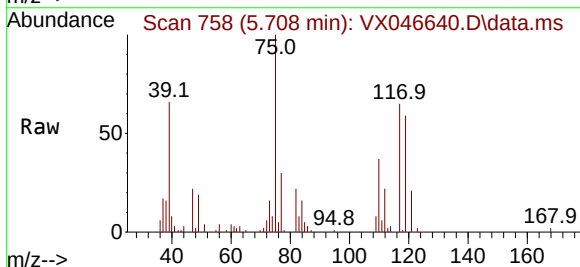
Tgt Ion: 75 Resp: 23625

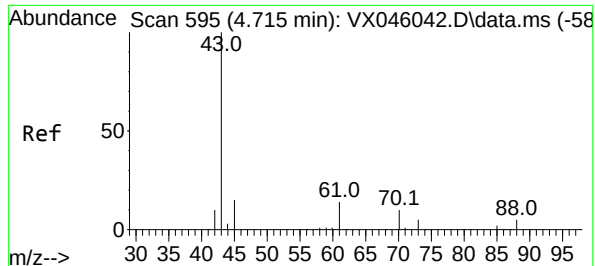
Ion Ratio Lower Upper

75 100

110 35.6 16.3 48.9

77 30.3 24.3 36.5





#37

Ethyl Acetate

Concen: 21.355 ug/l

RT: 4.727 min Scan# 595

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

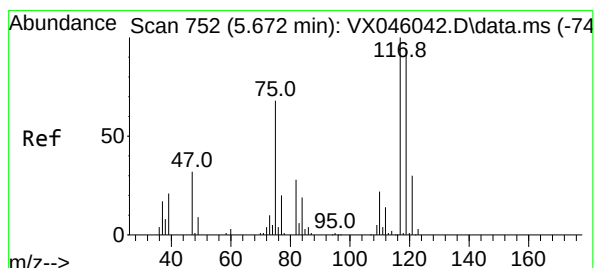
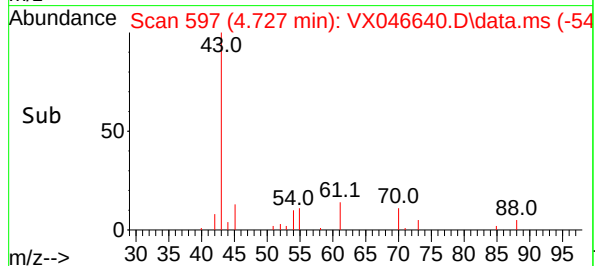
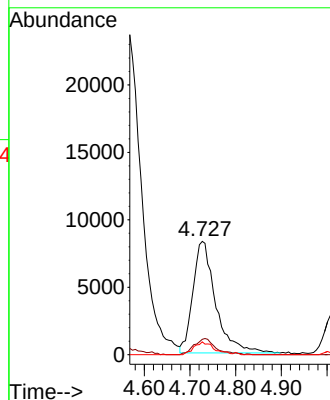
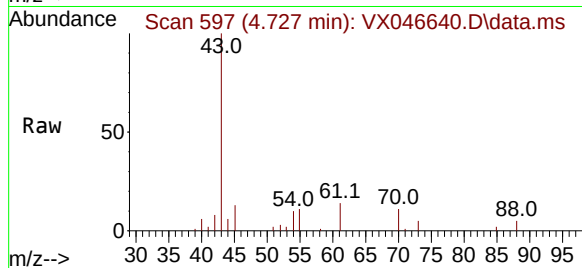
Tgt Ion:	43	Resp:	28624
Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.3	15.5
70	9.9	7.9	11.9

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#38

Carbon Tetrachloride

Concen: 18.628 ug/l

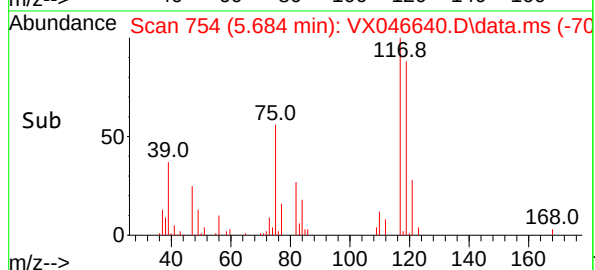
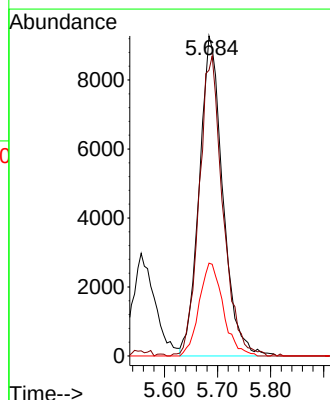
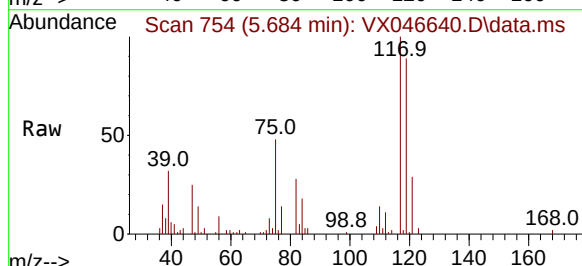
RT: 5.684 min Scan# 754

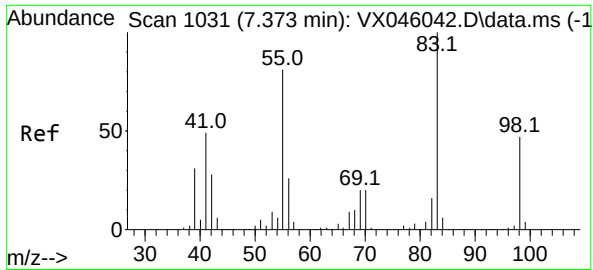
Delta R.T. -0.012 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Tgt Ion:	117	Resp:	28654
Ion	Ratio	Lower	Upper
117	100		
119	88.7	75.2	112.8
121	29.0	24.2	36.4





#39

Methylcyclohexane

Concen: 17.712 ug/l

RT: 7.385 min Scan# 1031

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 83 Resp: 2871

Ion Ratio Lower Upper

83 100

55 74.0 64.7 97.1

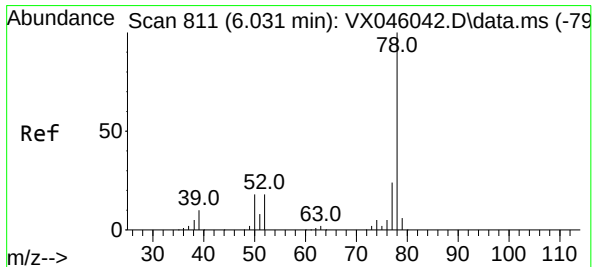
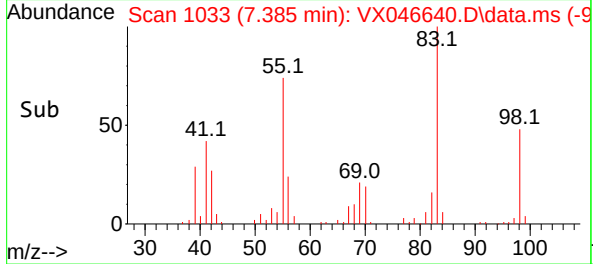
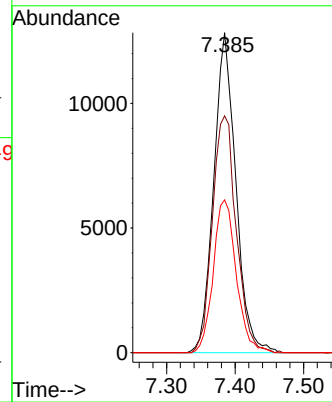
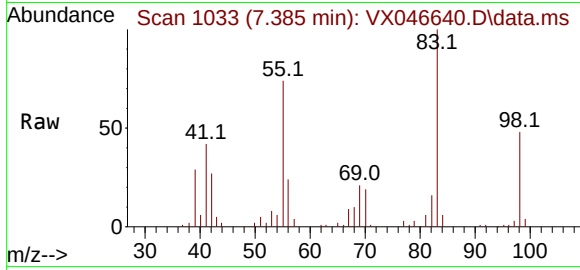
98 47.7 37.4 56.2

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#40

Benzene

Concen: 19.477 ug/l

RT: 6.044 min Scan# 813

Delta R.T. -0.012 min

Lab File: VX046640.D

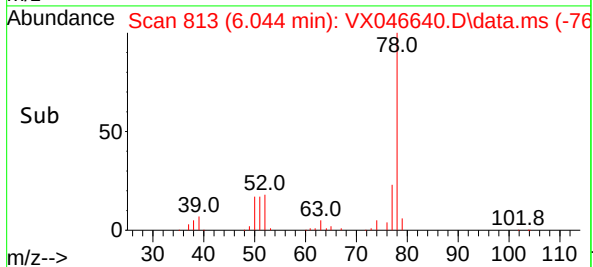
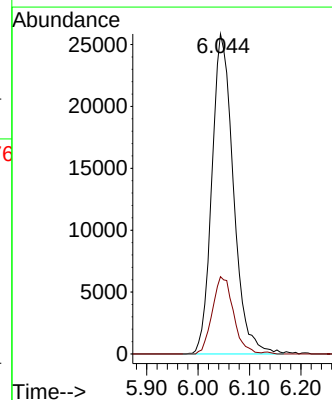
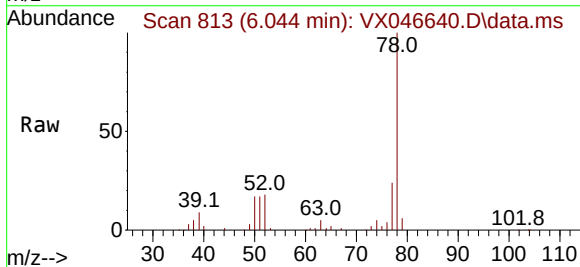
Acq: 11 Jun 2025 16:25

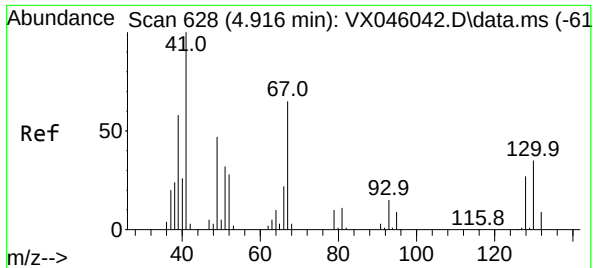
Tgt Ion: 78 Resp: 75303

Ion Ratio Lower Upper

78 100

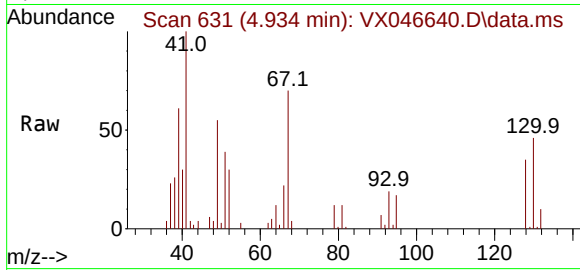
77 24.2 19.0 28.4





#41
Methacrylonitrile
Concen: 19.585 ug/l
RT: 4.934 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

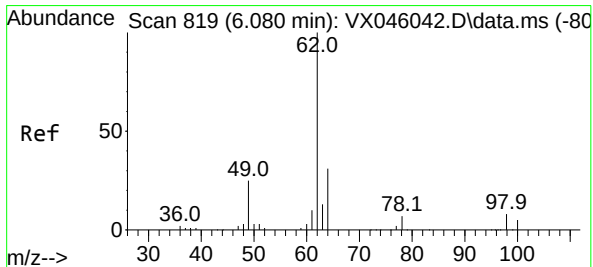
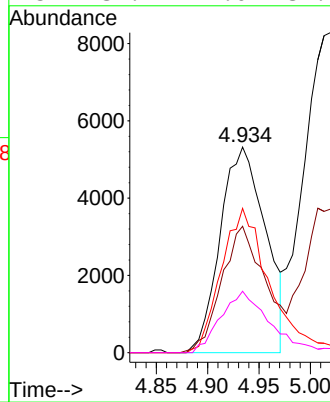
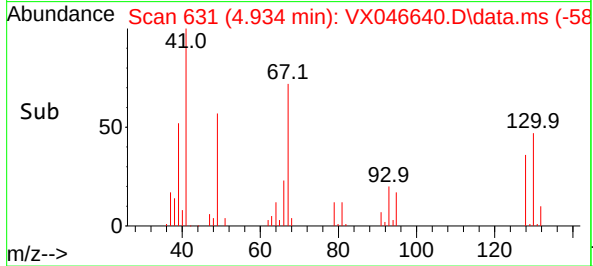
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion: 41 Resp: 1630
Ion Ratio Lower Upper
41 100
39 60.2 47.2 70.8
67 75.5 50.7 76.1
52 32.4 24.6 37.0

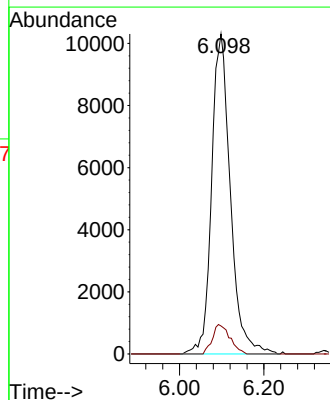
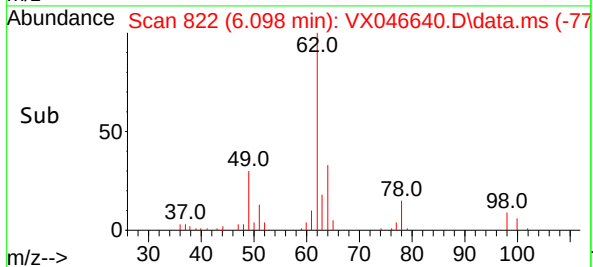
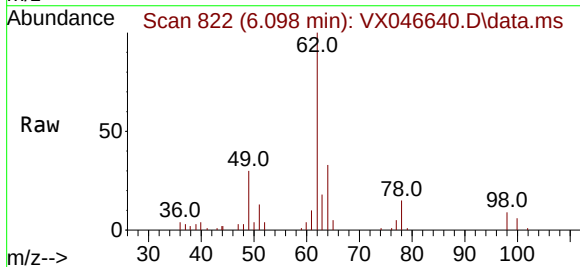
Manual Integrations
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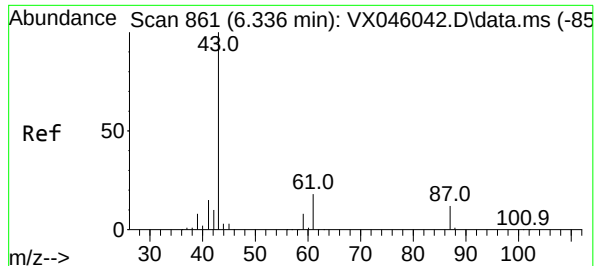
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#42
1,2-Dichloroethane
Concen: 19.749 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 62 Resp: 31765
Ion Ratio Lower Upper
62 100
98 8.6 0.0 15.2





#43

Isopropyl Acetate

Concen: 20.446 ug/l

RT: 6.348 min Scan# 861

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 43 Resp: 47778

Ion Ratio Lower Upper

43 100

61 17.8 14.3 21.5

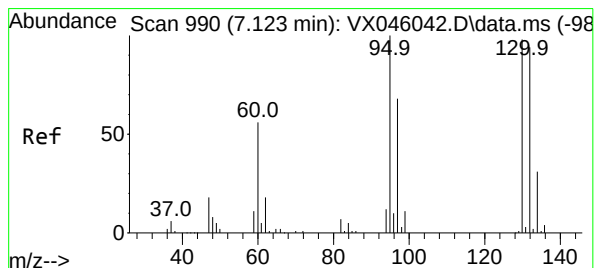
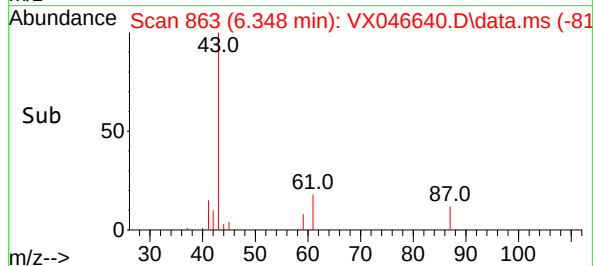
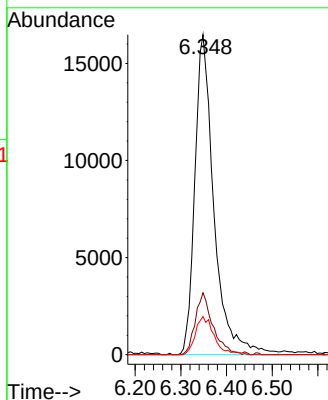
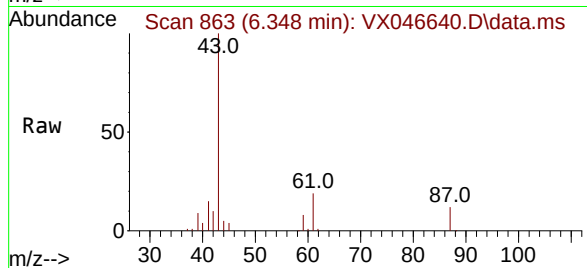
87 11.6 9.5 14.3

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#44

Trichloroethene

Concen: 18.790 ug/l

RT: 7.135 min Scan# 992

Delta R.T. -0.000 min

Lab File: VX046640.D

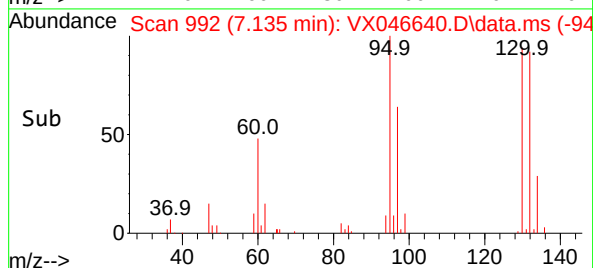
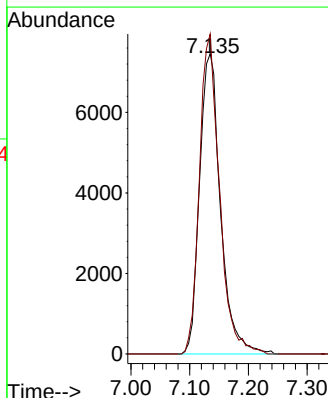
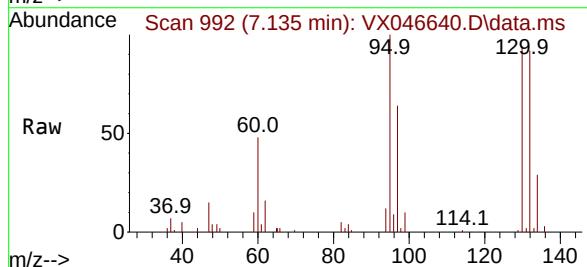
Acq: 11 Jun 2025 16:25

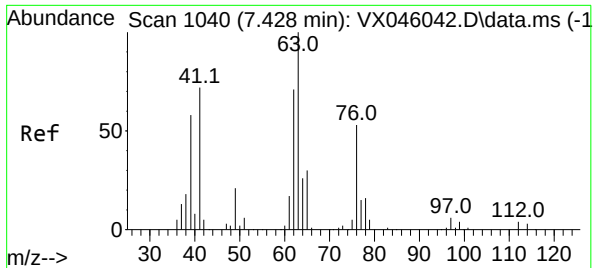
Tgt Ion:130 Resp: 18458

Ion Ratio Lower Upper

130 100

95 106.6 0.0 204.2





#45

1,2-Dichloropropane

Concen: 20.146 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 63 Resp: 2010

Ion Ratio Lower Upper

63 100

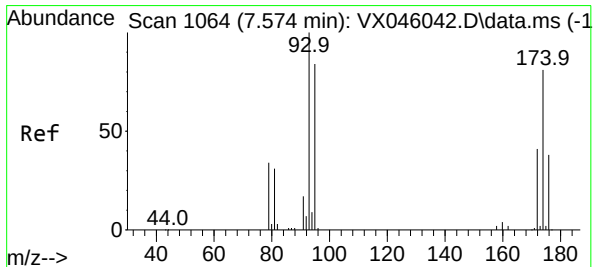
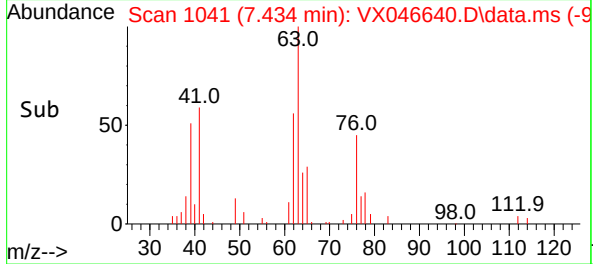
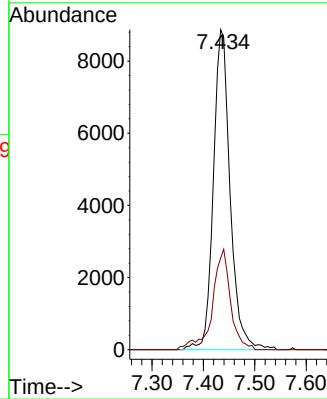
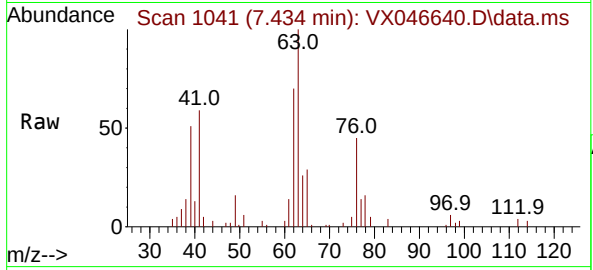
65 28.6 24.1 36.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#46

Dibromomethane

Concen: 20.275 ug/l

RT: 7.586 min Scan# 1066

Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

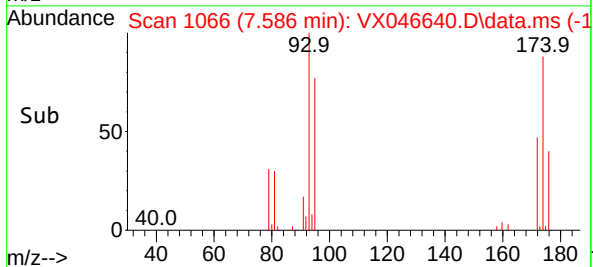
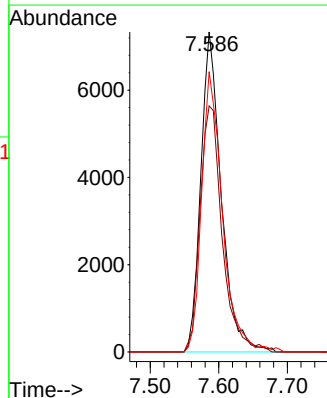
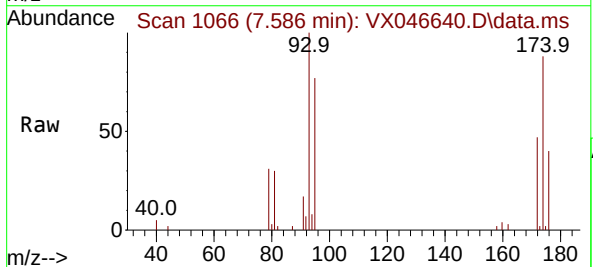
Tgt Ion: 93 Resp: 15221

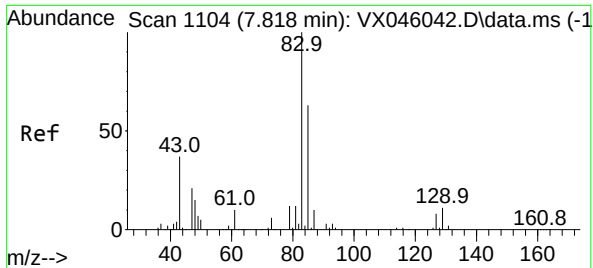
Ion Ratio Lower Upper

93 100

95 83.4 65.6 98.4

174 89.5 68.2 102.2





#47

Bromodichloromethane

Concen: 20.694 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

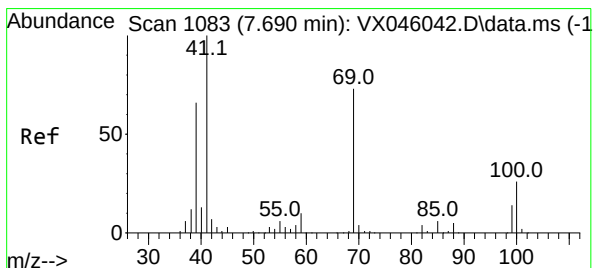
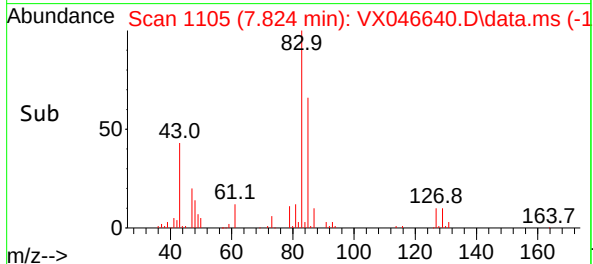
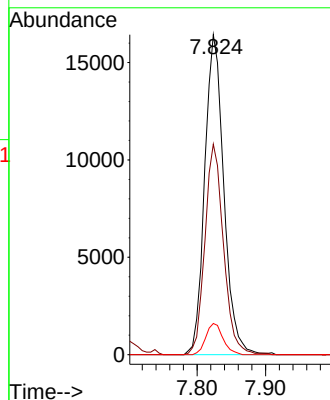
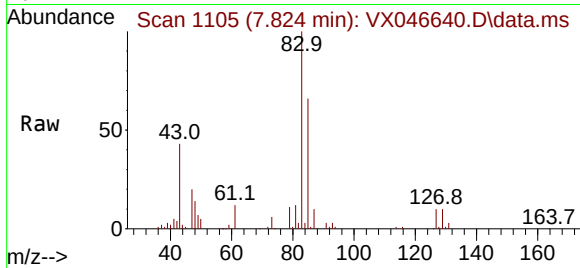
Tgt Ion:	83	Resp:	3194
Ion Ratio	Lower	Upper	
83	100		
85	65.8	50.5	75.7
127	9.8	6.5	9.7

Manual Integrations

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Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#48

Methyl methacrylate

Concen: 20.349 ug/l

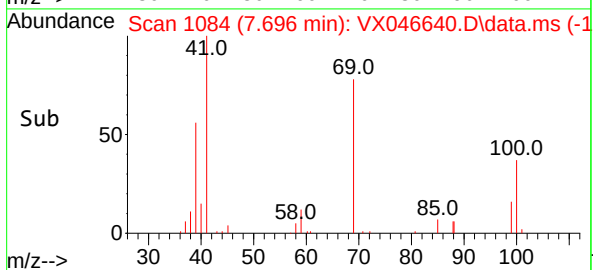
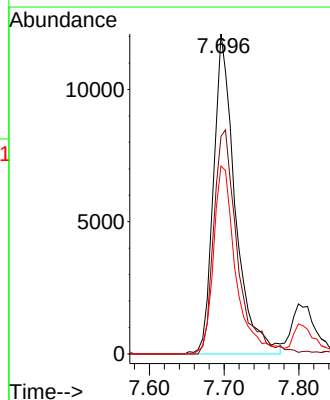
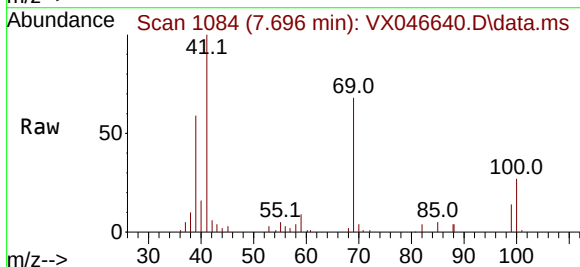
RT: 7.696 min Scan# 1084

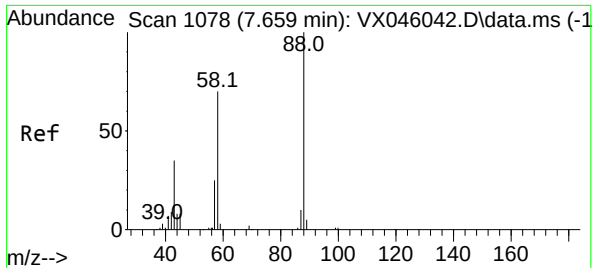
Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Tgt Ion:	41	Resp:	24465
Ion Ratio	Lower	Upper	
41	100		
69	76.7	58.5	87.7
39	60.4	51.7	77.5





#49

1,4-Dioxane

Concen: 404.966 ug/l

RT: 7.665 min Scan# 1078

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 88 Resp: 651

Ion Ratio Lower Upper

88 100

43 42.0 33.4 50.2

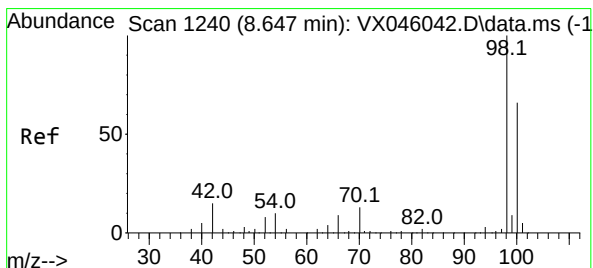
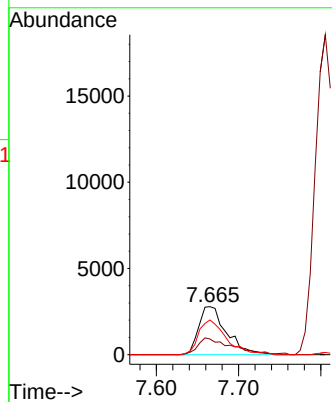
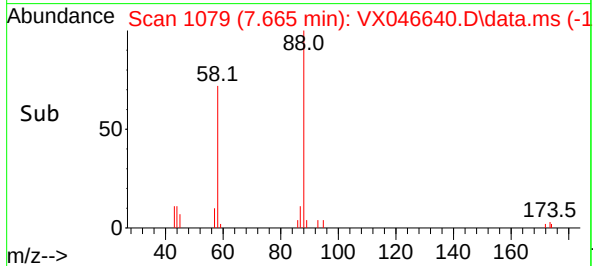
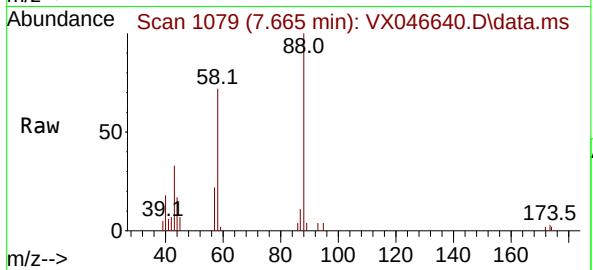
58 73.0 58.6 88.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#50

Toluene-d8

Concen: 46.543 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX046640.D

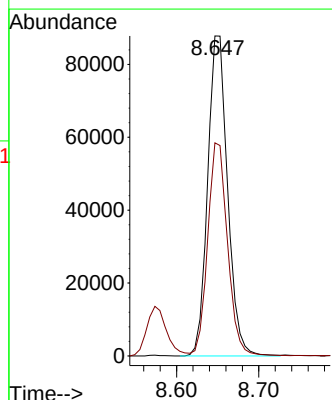
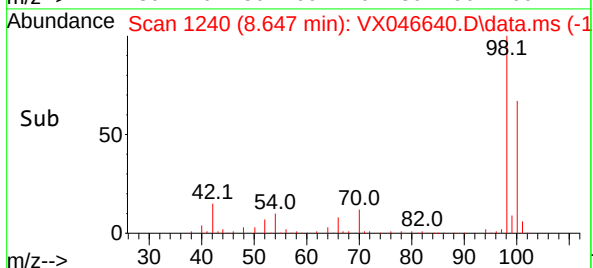
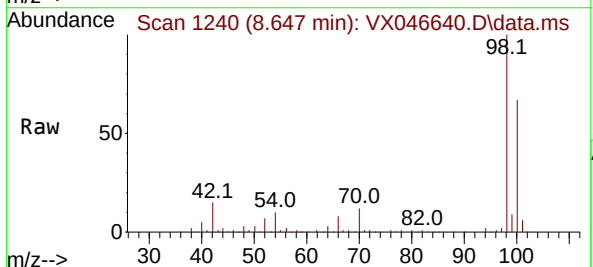
Acq: 11 Jun 2025 16:25

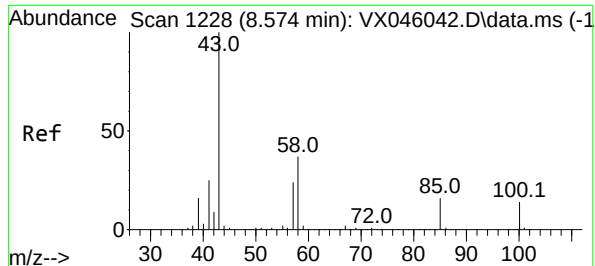
Tgt Ion: 98 Resp: 147531

Ion Ratio Lower Upper

98 100

100 66.1 53.5 80.3





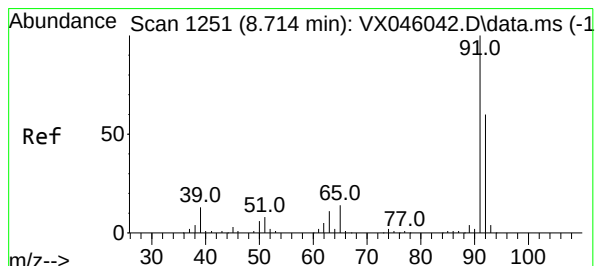
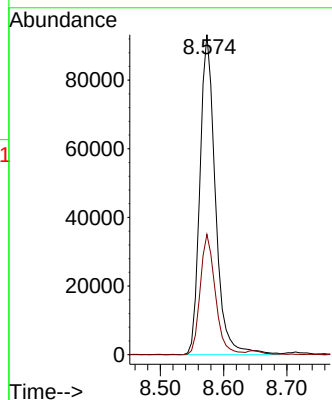
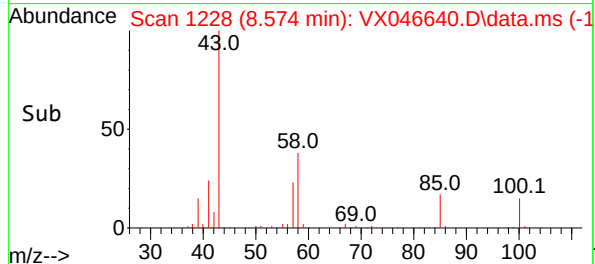
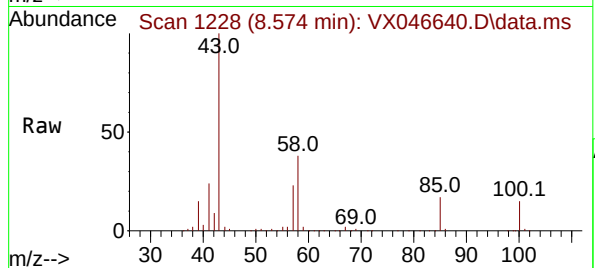
#51
4-Methyl-2-Pentanone
Concen: 107.344 ug/l
RT: 8.574 min Scan# 11
Delta R.T. 0.001 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 43 Resp: 15939
Ion Ratio Lower Upper
43 100
58 36.8 28.9 43.3

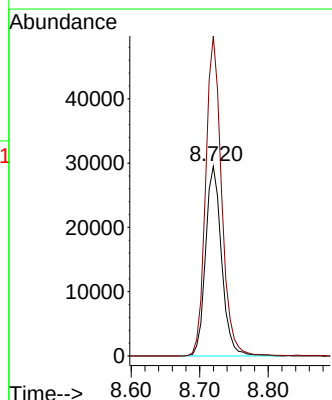
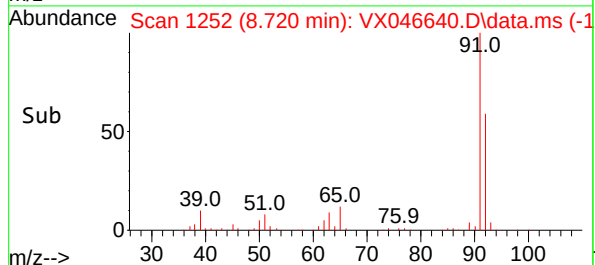
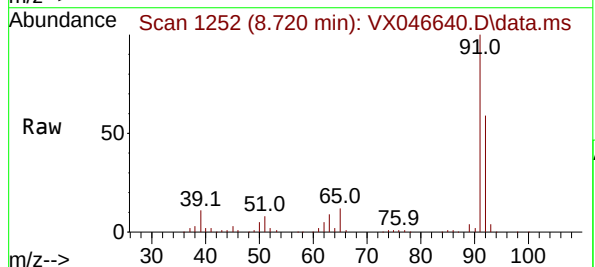
Manual Integrations
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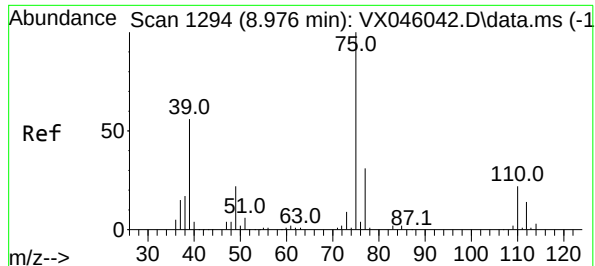
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#52
Toluene
Concen: 20.231 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 92 Resp: 48054
Ion Ratio Lower Upper
92 100
91 167.6 136.6 205.0





#53

t-1,3-Dichloropropene

Concen: 20.103 ug/l

RT: 8.982 min Scan# 1194

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 75 Resp: 27824

Ion Ratio Lower Upper

75 100

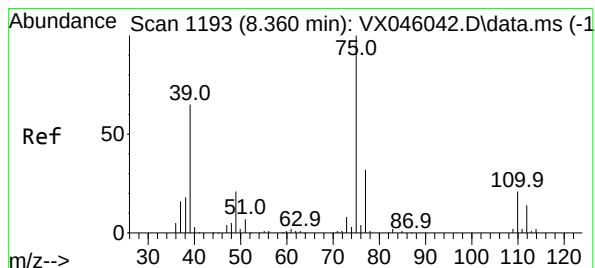
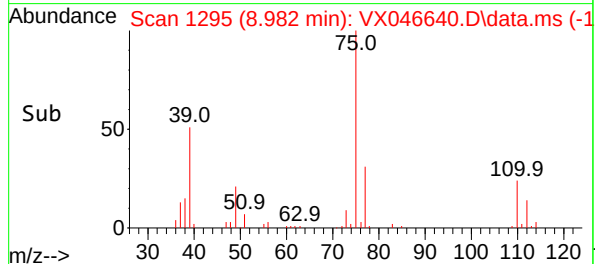
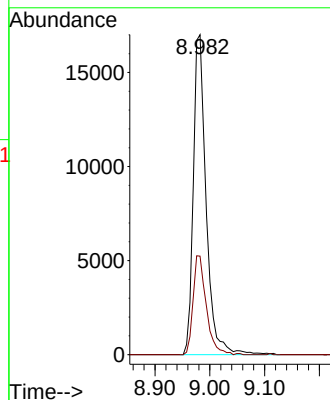
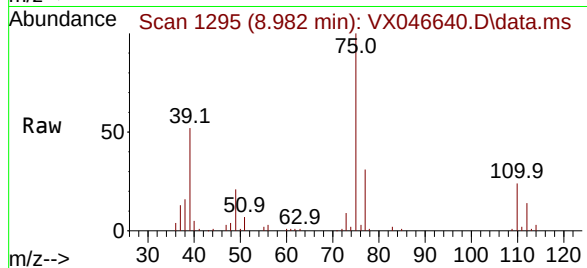
77 30.8 25.0 37.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#54

cis-1,3-Dichloropropene

Concen: 19.963 ug/l

RT: 8.366 min Scan# 1194

Delta R.T. -0.006 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

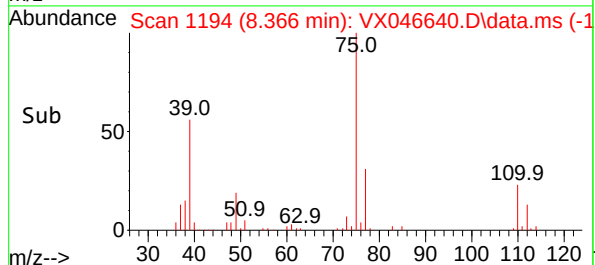
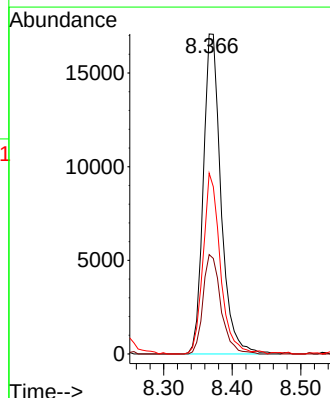
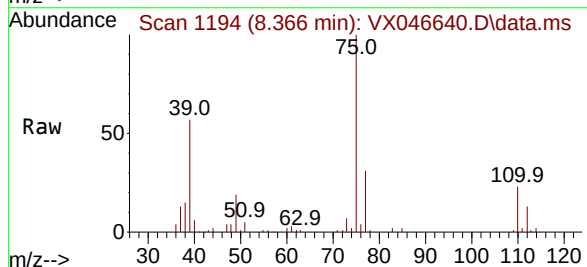
Tgt Ion: 75 Resp: 30720

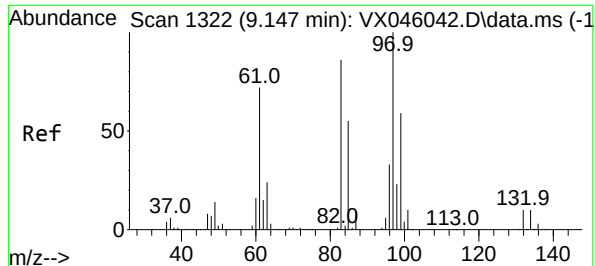
Ion Ratio Lower Upper

75 100

77 31.0 25.4 38.0

39 56.5 52.2 78.4





#55

1,1,2-Trichloroethane

Concen: 21.755 ug/l

RT: 9.153 min Scan# 1323

Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 97 Resp: 20744

Ion Ratio Lower Upper

97 100

83 84.6 69.0 103.6

85 57.0 44.3 66.5

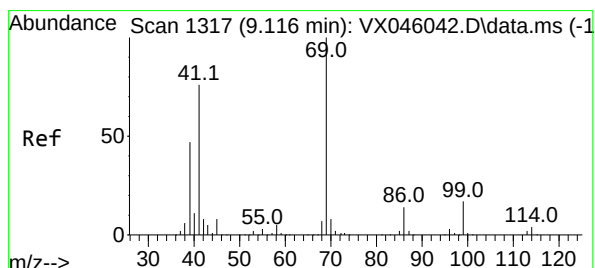
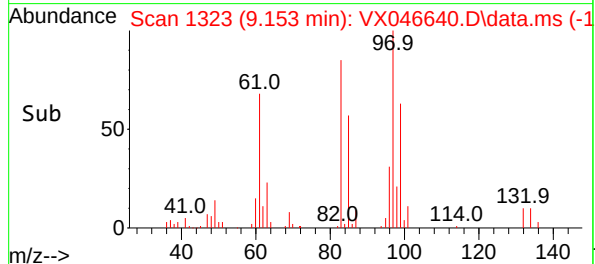
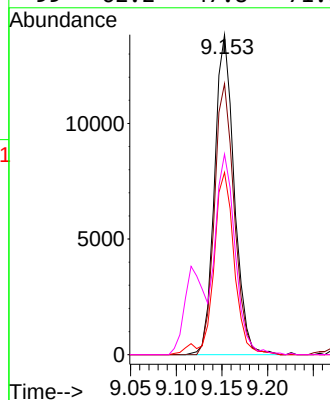
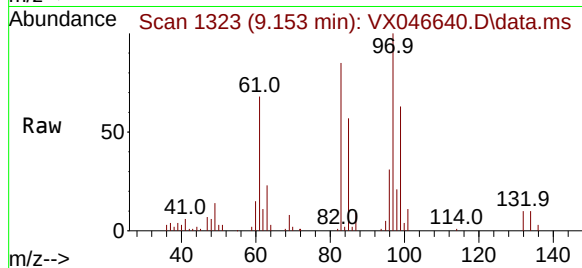
99 62.2 47.8 71.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#56

Ethyl methacrylate

Concen: 20.621 ug/l

RT: 9.116 min Scan# 1317

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

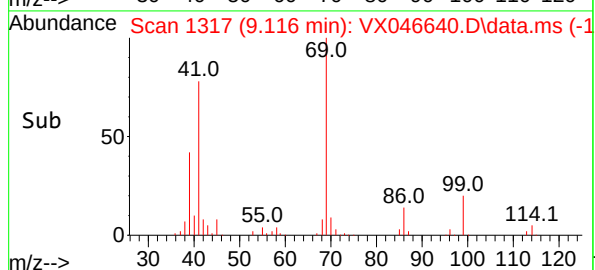
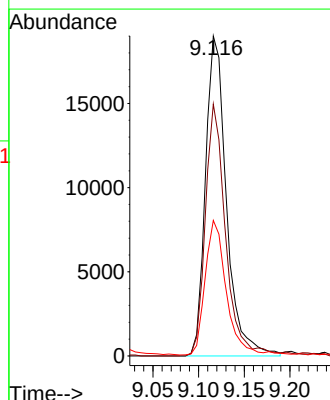
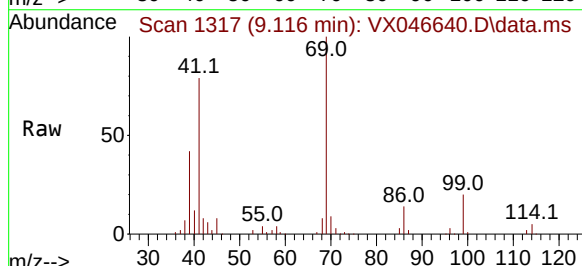
Tgt Ion: 69 Resp: 30259

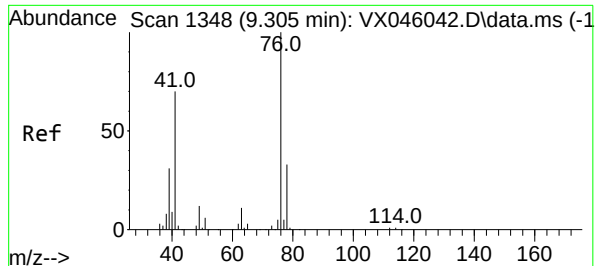
Ion Ratio Lower Upper

69 100

41 76.6 60.8 91.2

39 43.0 39.0 58.6





#57

1,3-Dichloropropane

Concen: 21.214 ug/l

RT: 9.311 min Scan# 1134

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 76 Resp: 3574

Ion Ratio Lower Upper

76 100

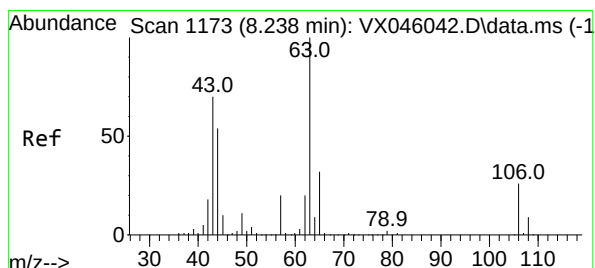
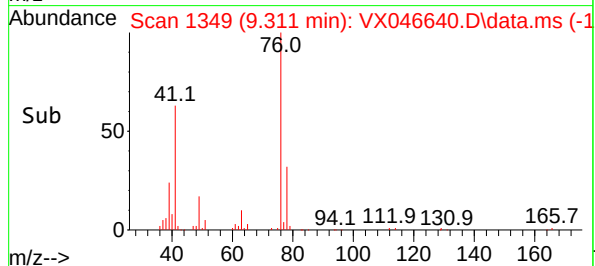
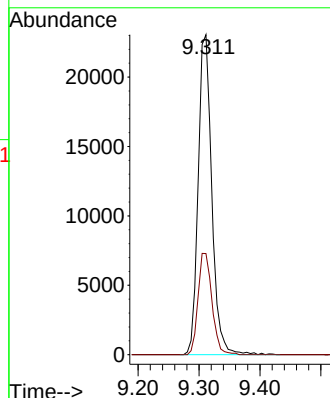
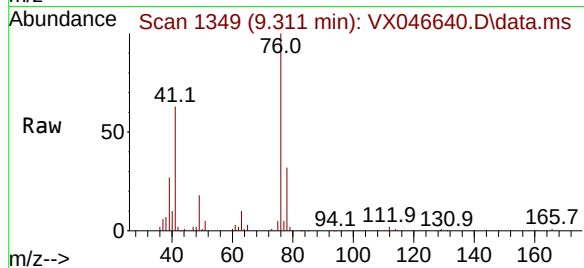
78 32.4 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#58

2-Chloroethyl Vinyl ether

Concen: 109.363 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.000 min

Lab File: VX046640.D

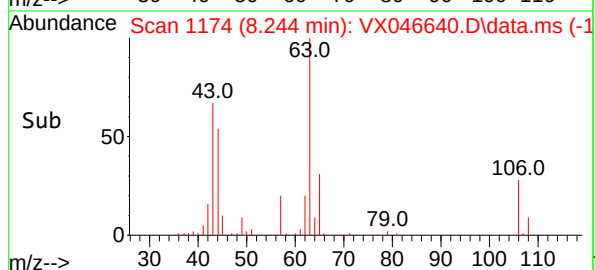
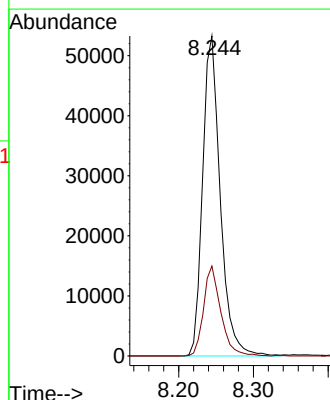
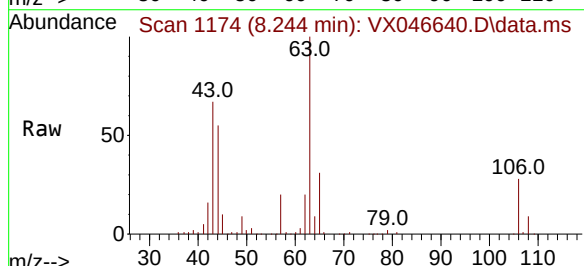
Acq: 11 Jun 2025 16:25

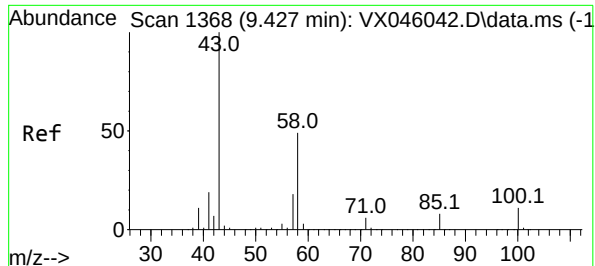
Tgt Ion: 63 Resp: 87410

Ion Ratio Lower Upper

63 100

106 27.4 21.5 32.3





#59

2-Hexanone

Concen: 108.033 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 43 Resp: 11505

Ion Ratio Lower Upper

43 100

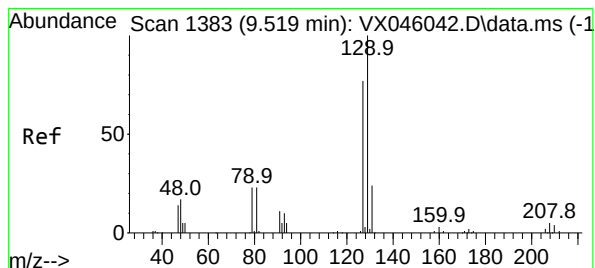
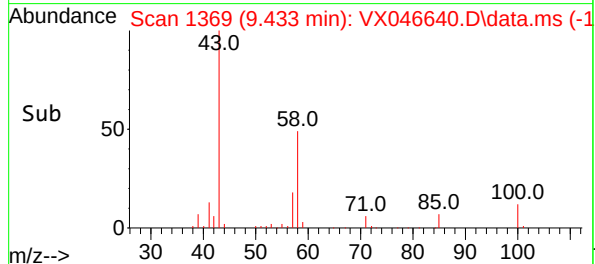
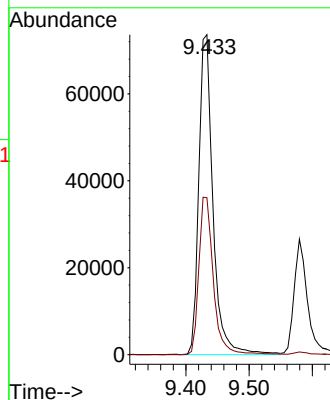
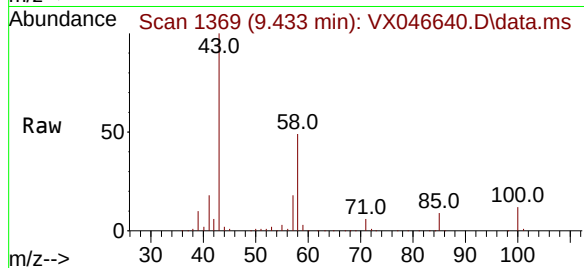
58 50.5 24.9 74.6

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#60

Dibromochloromethane

Concen: 21.317 ug/l

RT: 9.518 min Scan# 1383

Delta R.T. -0.007 min

Lab File: VX046640.D

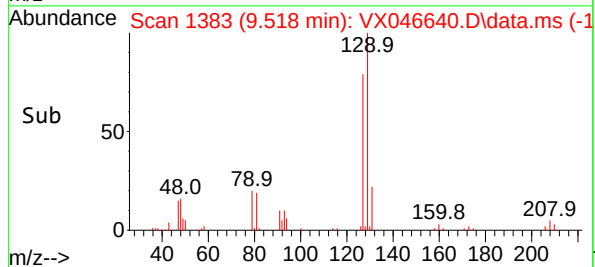
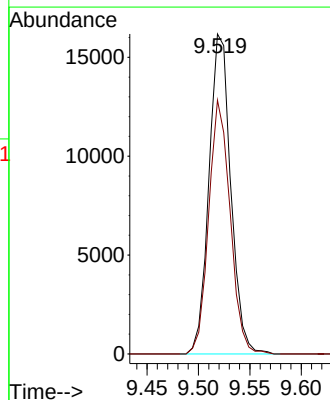
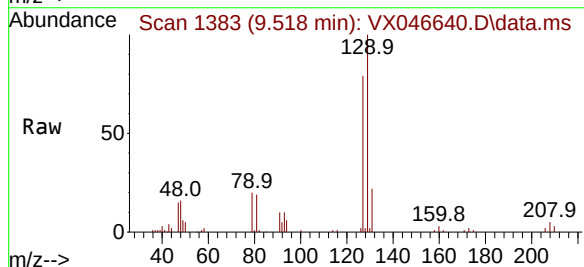
Acq: 11 Jun 2025 16:25

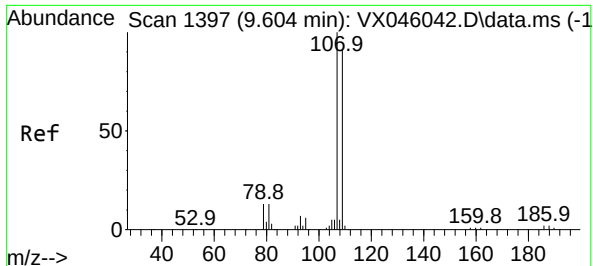
Tgt Ion:129 Resp: 23909

Ion Ratio Lower Upper

129 100

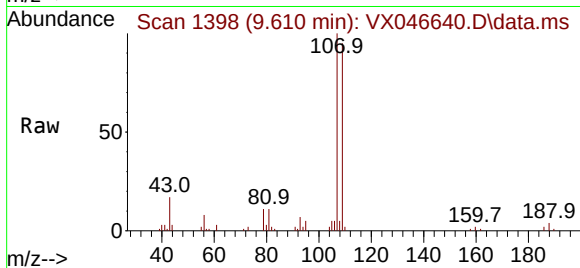
127 77.9 39.3 117.8





#61
1,2-Dibromoethane
Concen: 21.049 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

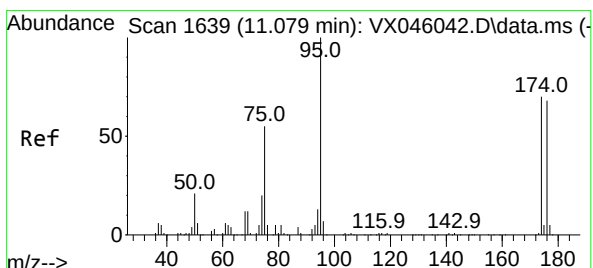
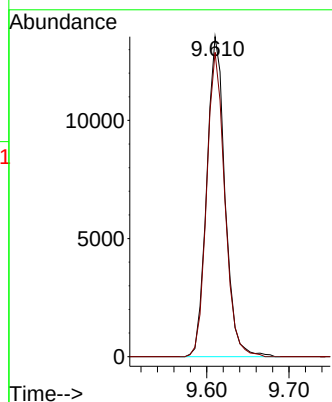
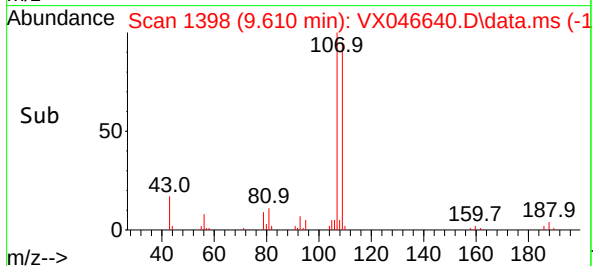
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion:107 Resp: 20915
Ion Ratio Lower Upper
107 100
109 94.3 73.3 109.9

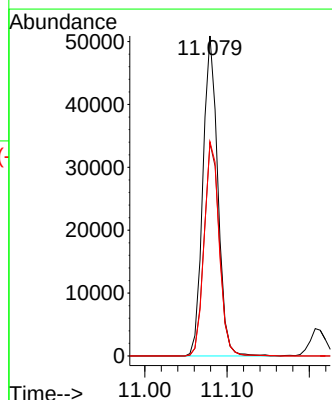
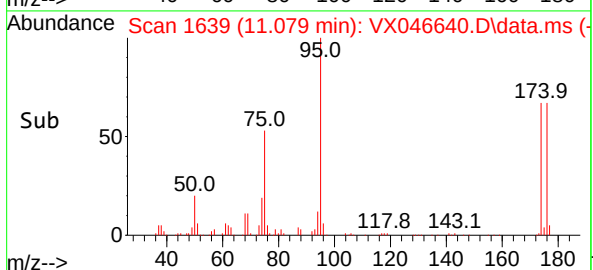
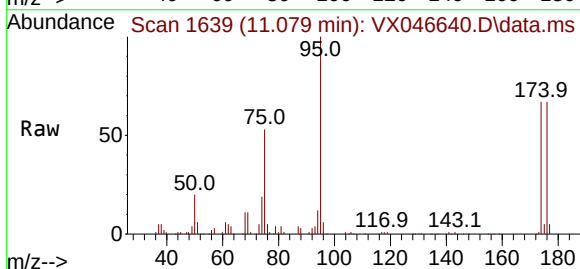
Manual Integrations
APPROVED

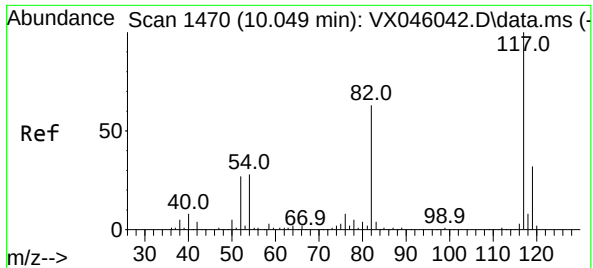
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#62
4-Bromofluorobenzene
Concen: 48.723 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

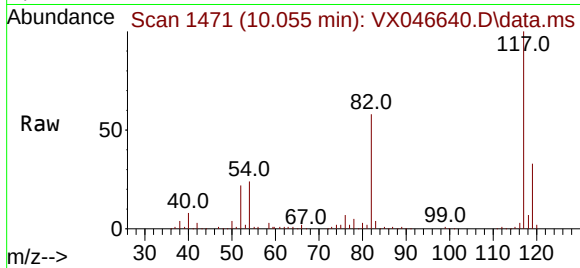
Tgt Ion: 95 Resp: 63899
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.8
176 67.9 0.0 131.4





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

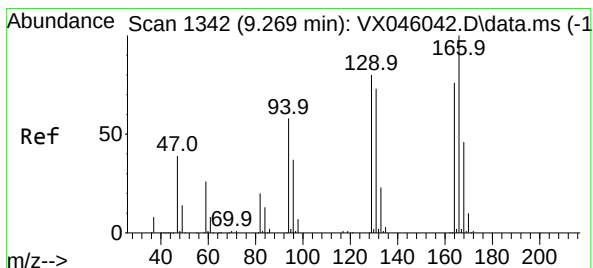
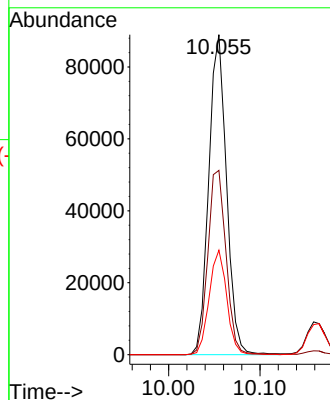
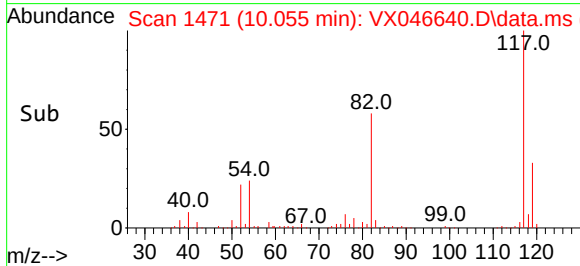
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion:117 Resp: 11982
Ion Ratio Lower Upper
117 100
82 57.6 50.6 76.0
119 32.7 25.8 38.6

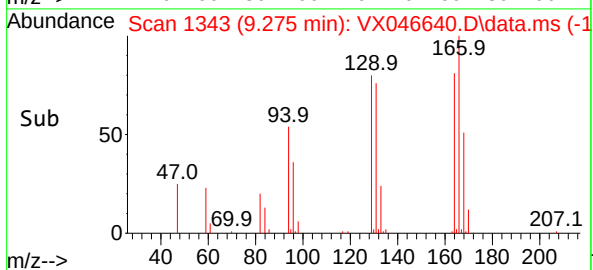
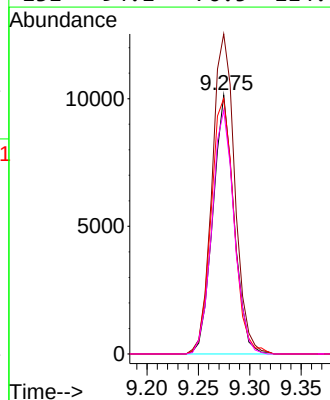
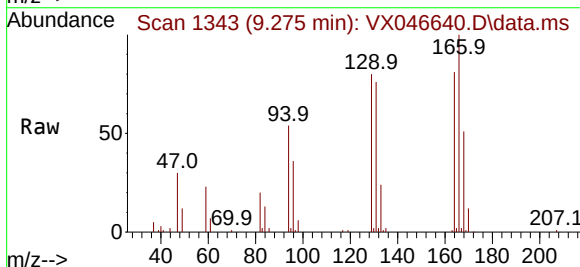
Manual Integrations
APPROVED

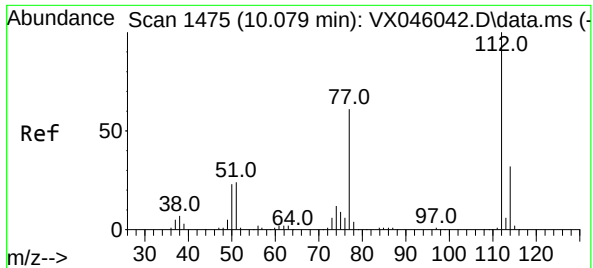
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#64
Tetrachloroethene
Concen: 17.993 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

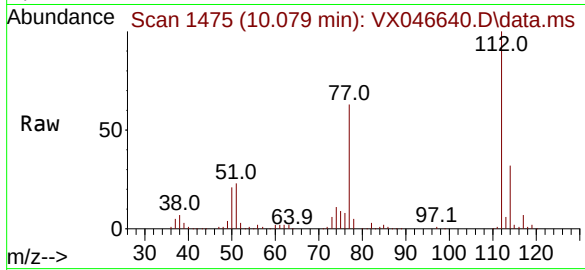
Tgt Ion:164 Resp: 14417
Ion Ratio Lower Upper
164 100
166 123.7 105.0 157.6
129 98.7 83.5 125.3
131 94.1 76.5 114.7





#65
Chlorobenzene
Concen: 19.463 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

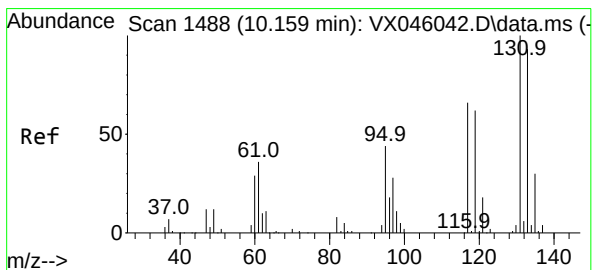
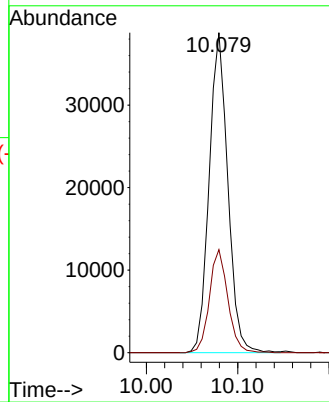
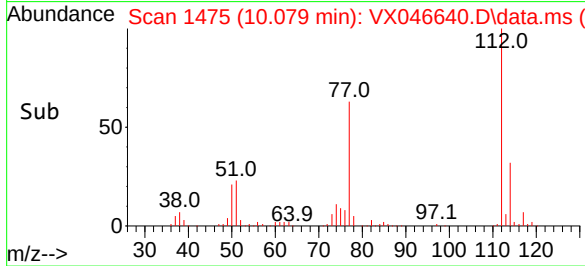
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion:112 Resp: 54850
Ion Ratio Lower Upper
112 100
114 32.2 25.4 38.2

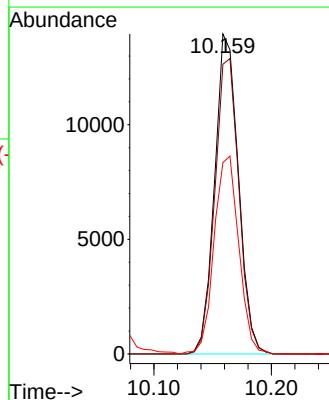
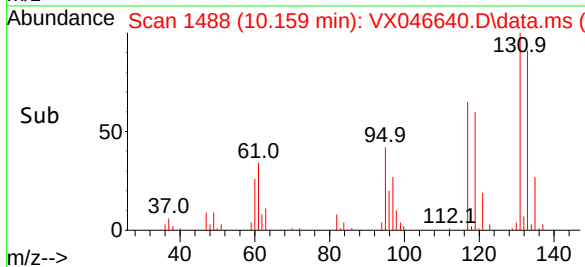
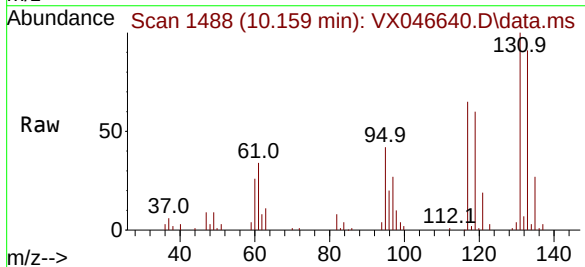
Manual Integrations
APPROVED

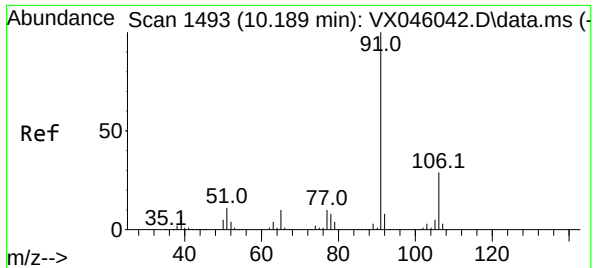
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#66
1,1,1,2-Tetrachloroethane
Concen: 20.671 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion:131 Resp: 19685
Ion Ratio Lower Upper
131 100
133 93.7 47.3 141.9
119 64.0 31.6 95.0





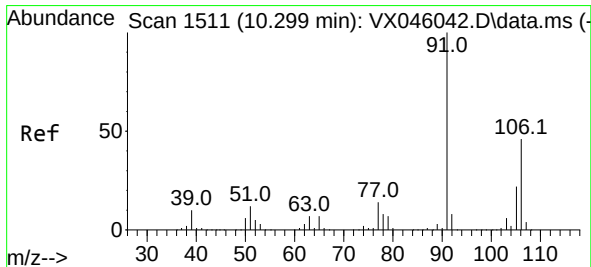
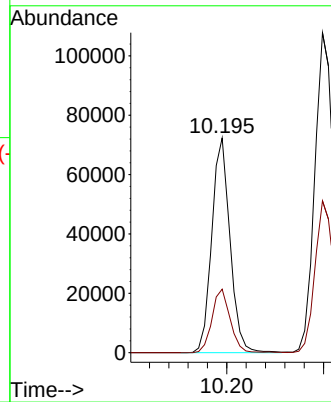
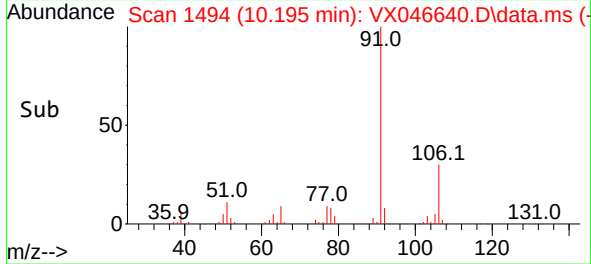
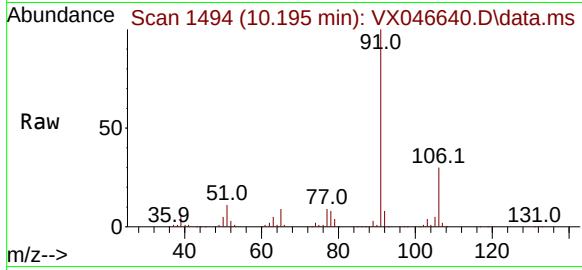
#67
Ethyl Benzene
Concen: 19.264 ug/l
RT: 10.195 min Scan# 1493
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 91 Resp: 9477
Ion Ratio Lower Upper
91 100
106 29.6 23.4 35.2

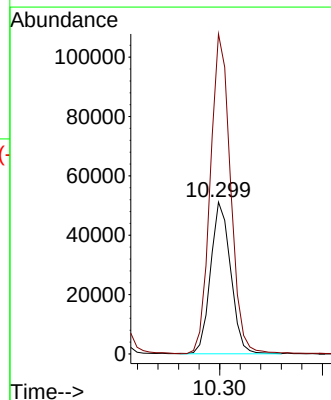
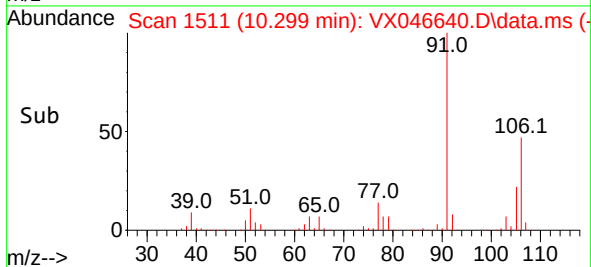
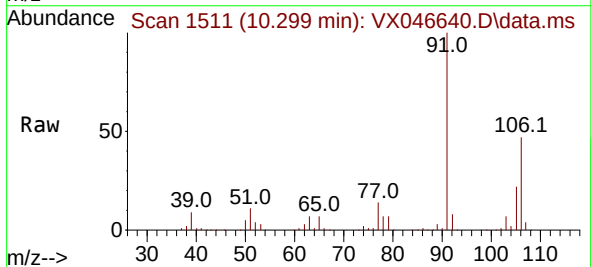
Manual Integrations
APPROVED

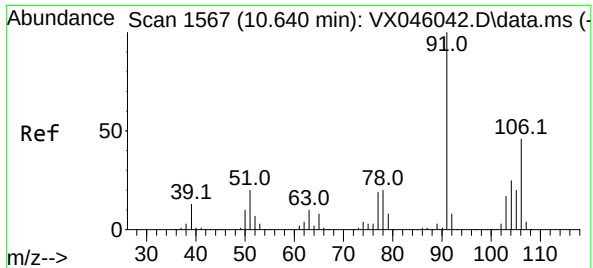
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#68
m/p-Xylenes
Concen: 38.908 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion:106 Resp: 69436
Ion Ratio Lower Upper
106 100
91 214.4 171.2 256.8





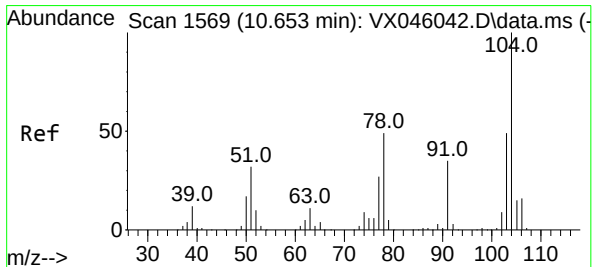
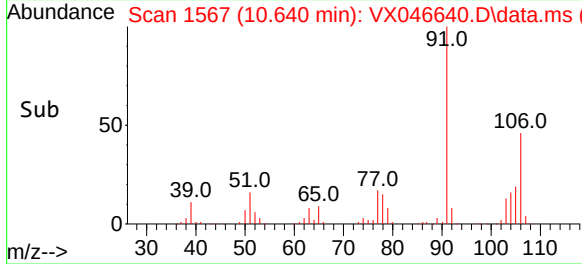
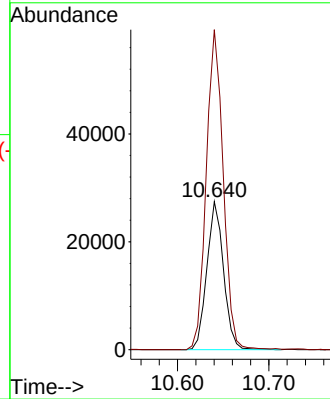
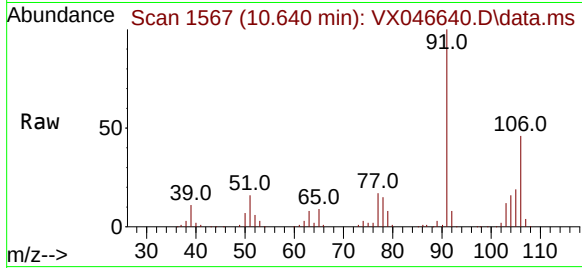
#69
o-Xylene
Concen: 20.145 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion:106 Resp: 3477
Ion Ratio Lower Upper
106 100
91 219.0 112.7 338.1

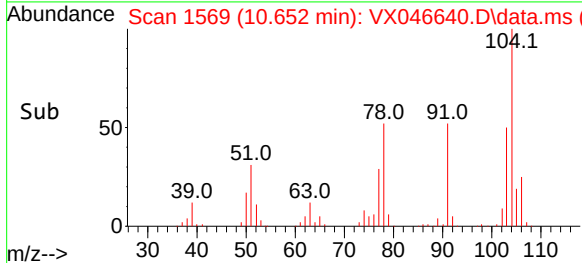
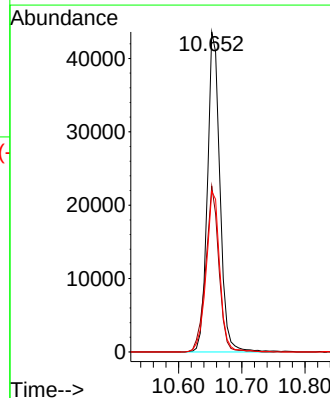
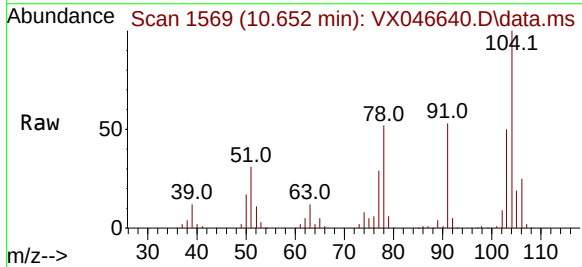
Manual Integrations
APPROVED

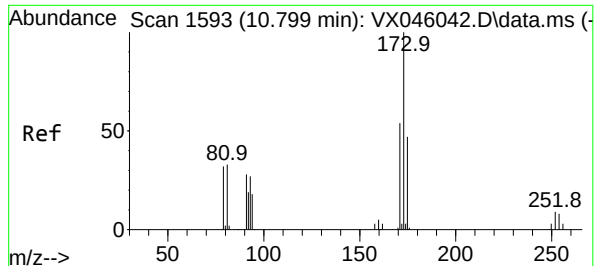
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#70
Styrene
Concen: 20.417 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

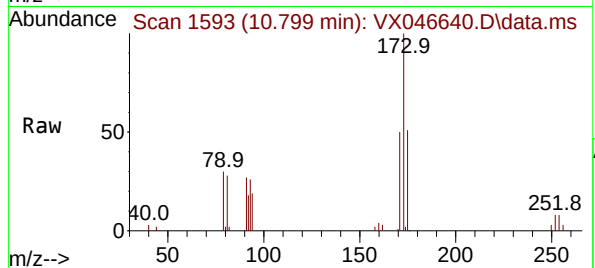
Tgt Ion:104 Resp: 60329
Ion Ratio Lower Upper
104 100
78 54.4 45.7 68.5
103 54.4 43.7 65.5





#71
Bromoform
Concen: 21.255 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

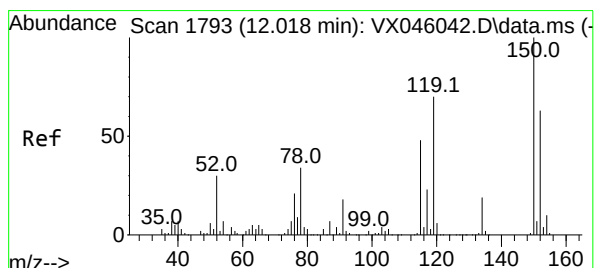
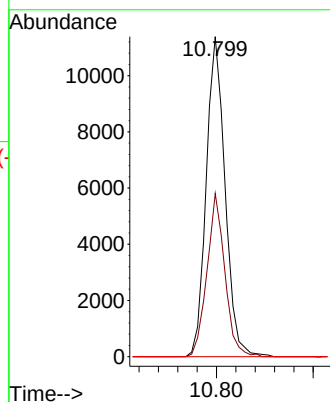
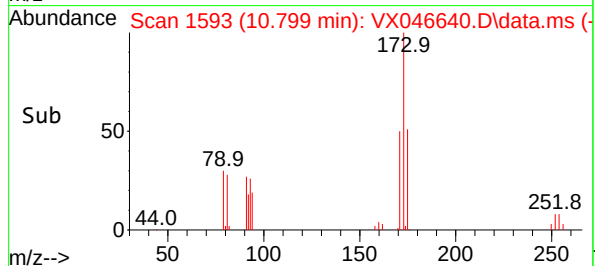
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion:173 Resp: 1543
Ion Ratio Lower Upper
173 100
175 48.4 23.4 70.0
254 0.0 0.0 0.0

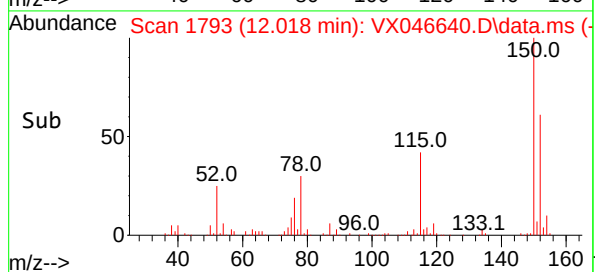
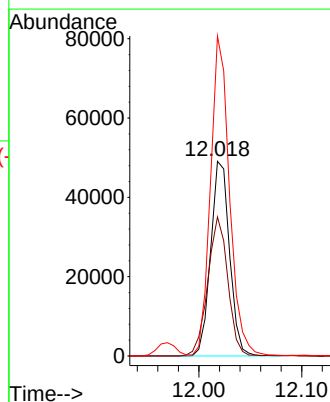
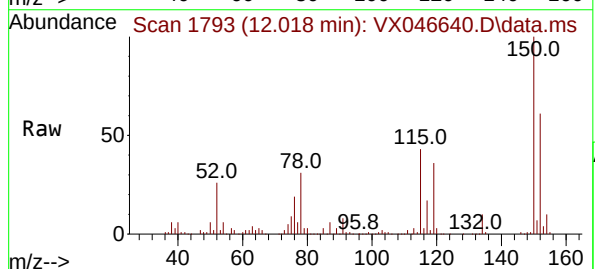
Manual Integrations
APPROVED

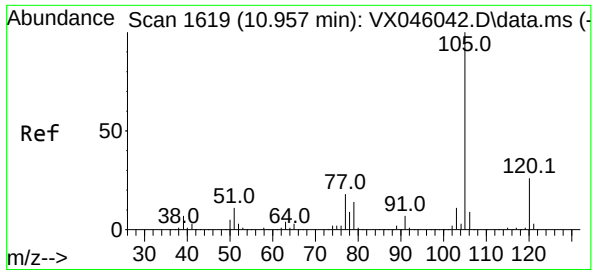
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion:152 Resp: 62816
Ion Ratio Lower Upper
152 100
115 75.8 46.9 140.7
150 164.3 0.0 351.0





#73

Isopropylbenzene

Concen: 18.967 ug/l

RT: 10.963 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion:105 Resp: 93650

Ion Ratio Lower Upper

105 100

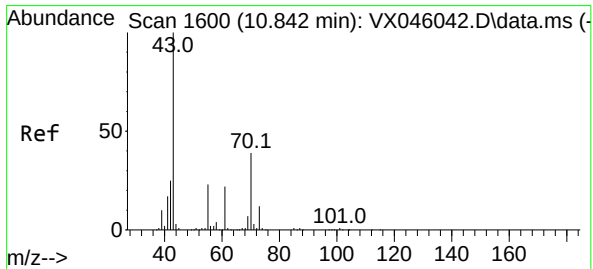
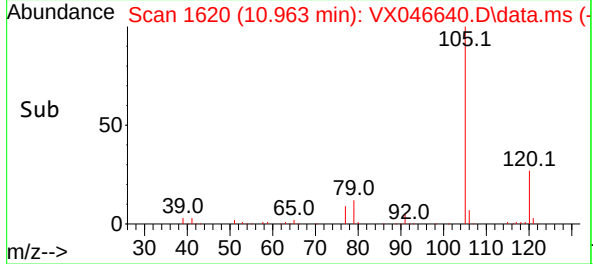
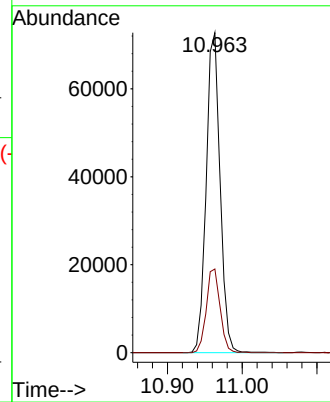
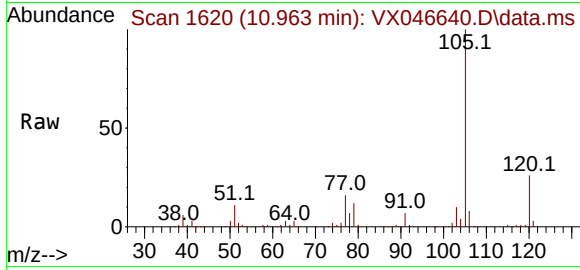
120 26.0 12.8 38.4

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#74

N-ethyl acetate

Concen: 19.174 ug/l

RT: 10.841 min Scan# 1600

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Tgt Ion: 43 Resp: 41695

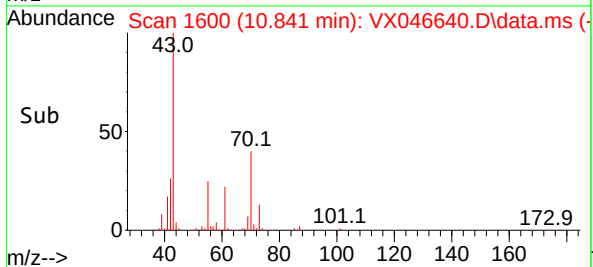
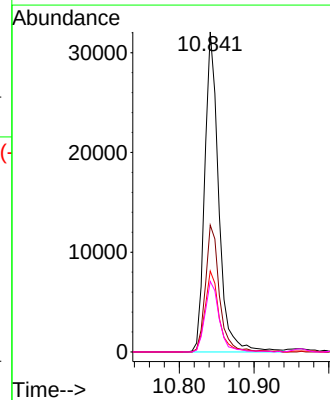
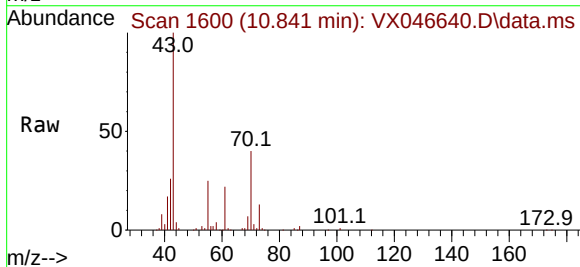
Ion Ratio Lower Upper

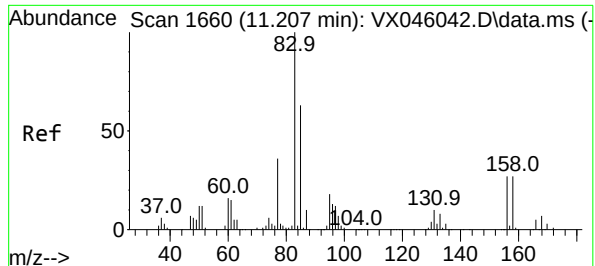
43 100

70 39.7 30.9 46.3

55 25.6 18.7 28.1

61 22.6 17.1 25.7





#75

1,1,2,2-Tetrachloroethane

Concen: 20.514 ug/l

RT: 11.213 min Scan# 1661

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

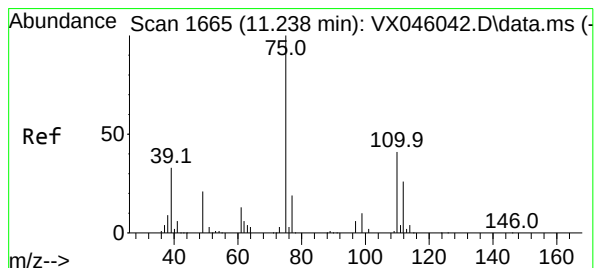
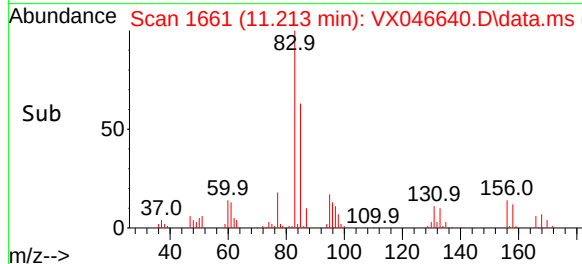
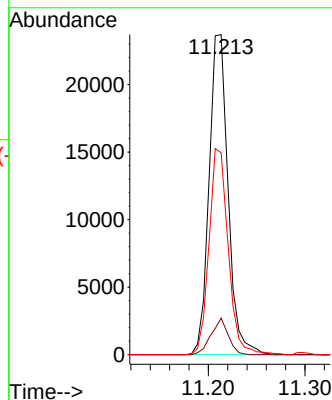
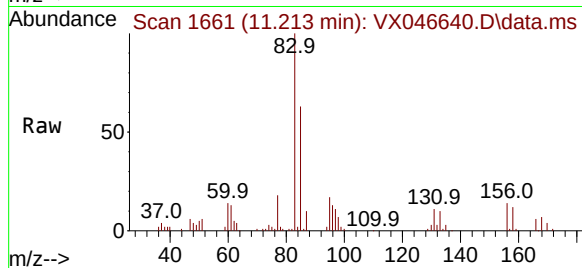
VX0611WBSD02

Tgt Ion:	83	Resp:	32424
Ion	Ratio	Lower	Upper
83	100		
131	10.3	5.0	14.9
85	65.1	31.9	95.7

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#76

1,2,3-Trichloropropane

Concen: 20.136 ug/l m

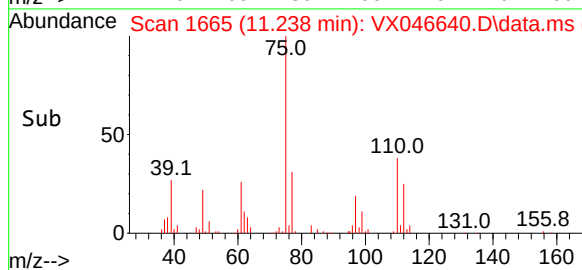
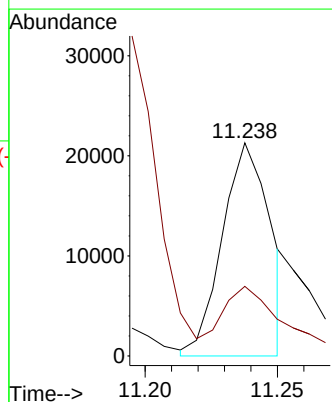
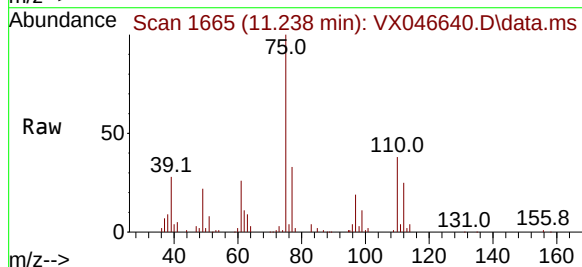
RT: 11.238 min Scan# 1665

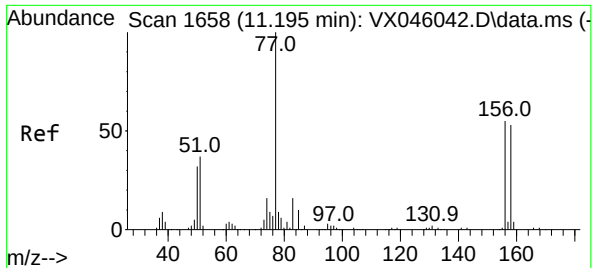
Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

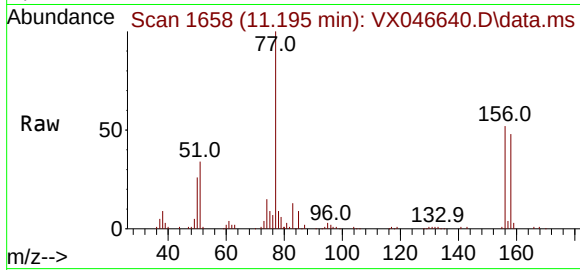
Tgt Ion:	75	Resp:	26792
Ion	Ratio	Lower	Upper
75	100		
77	43.2	20.5	61.5





#77
Bromobenzene
Concen: 19.505 ug/l
RT: 11.195 min Scan# 1658
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

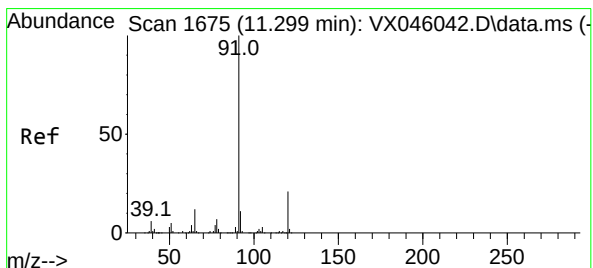
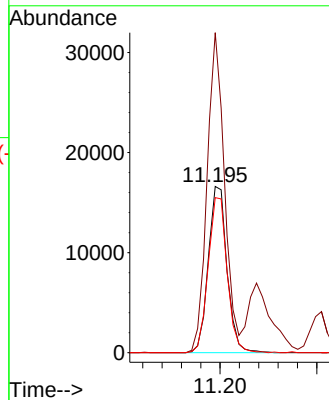
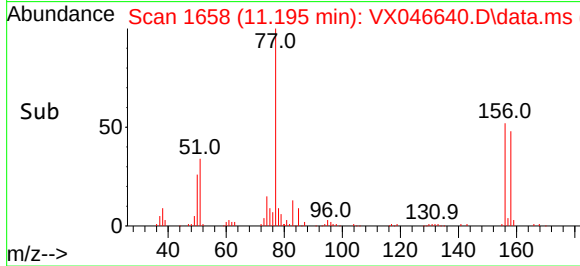
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion:156 Resp: 22350
Ion Ratio Lower Upper
156 100
77 179.1 92.8 278.3
158 94.8 48.8 146.3

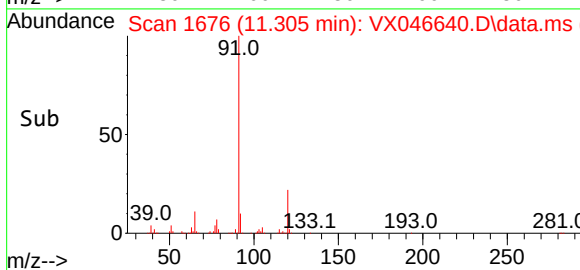
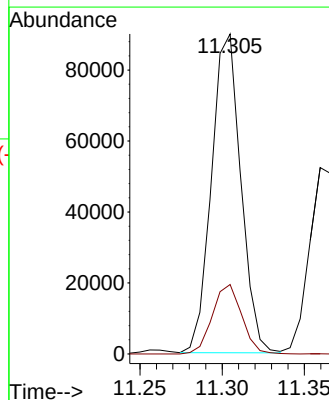
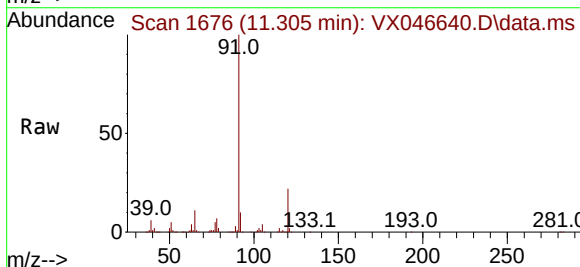
Manual Integrations
APPROVED

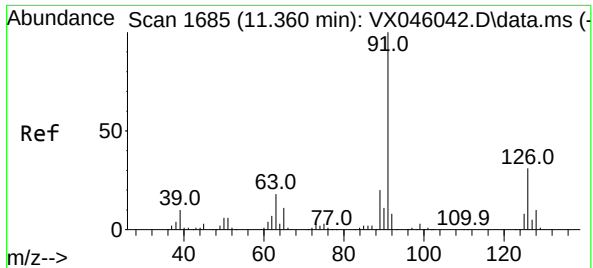
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#78
n-propylbenzene
Concen: 18.675 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 91 Resp: 111616
Ion Ratio Lower Upper
91 100
120 21.8 10.8 32.4





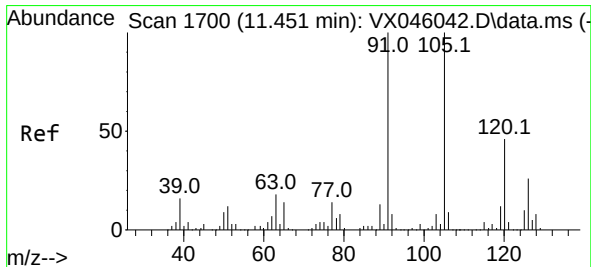
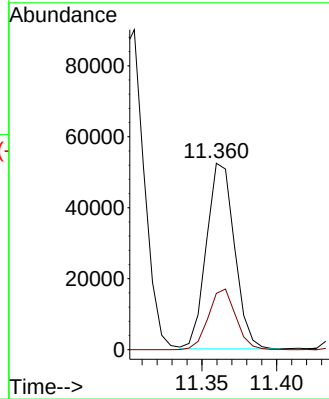
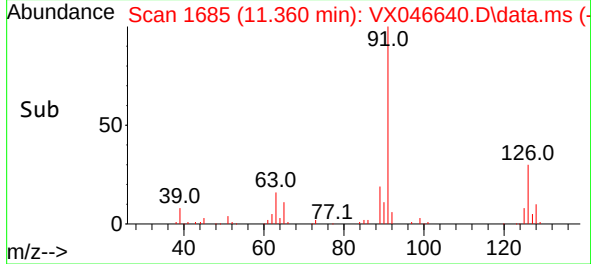
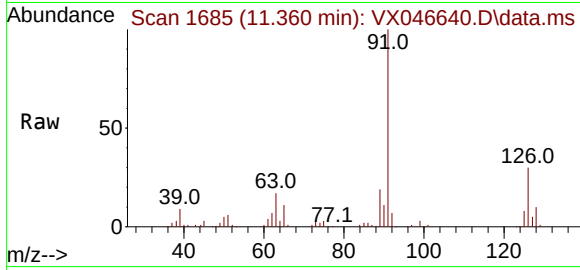
#79
2-Chlorotoluene
Concen: 19.024 ug/l
RT: 11.360 min Scan# 1100
Delta R.T. -0.006 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02

Tgt Ion: 91 Resp: 68560
Ion Ratio Lower Upper
91 100
126 31.8 15.6 46.7

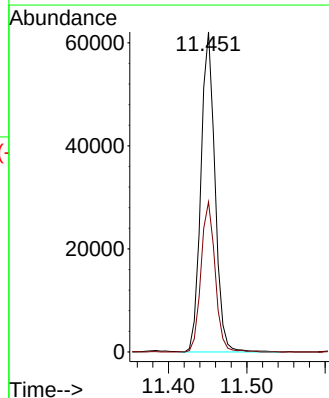
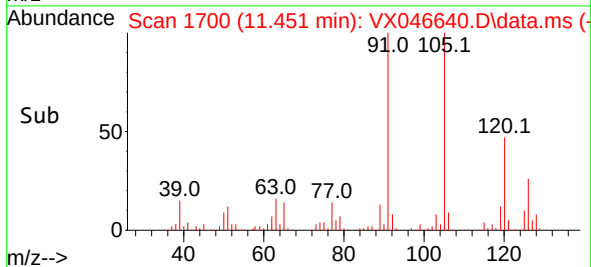
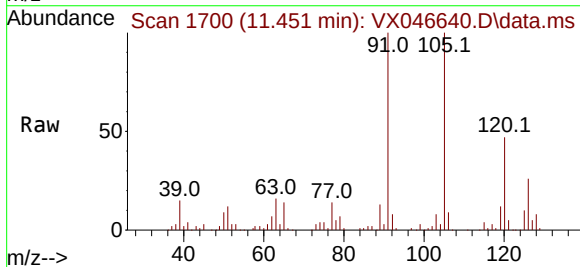
Manual Integrations
APPROVED

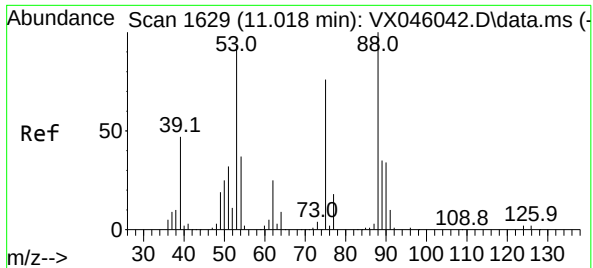
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#80
1,3,5-Trimethylbenzene
Concen: 18.858 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

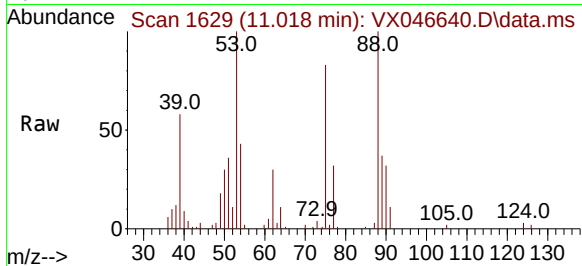
Tgt Ion:105 Resp: 77599
Ion Ratio Lower Upper
105 100
120 47.2 23.1 69.2





#81
trans-1,4-Dichloro-2-butene
Concen: 18.220 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

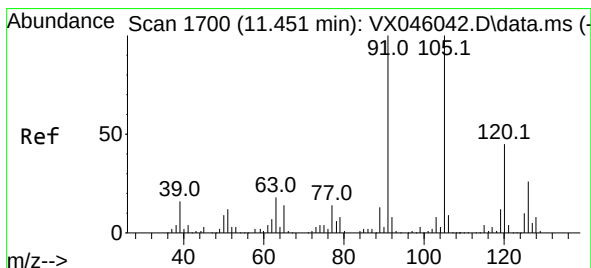
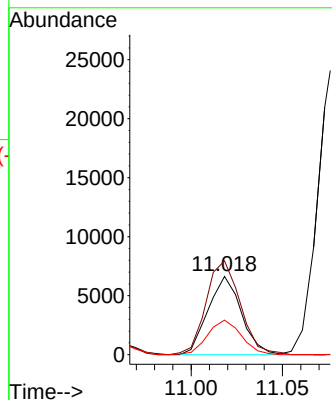
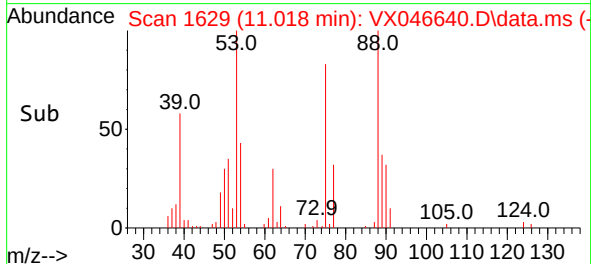
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion: 75 Resp: 8404
Ion Ratio Lower Upper
75 100
53 122.9 100.5 150.7
89 44.6 37.0 55.6

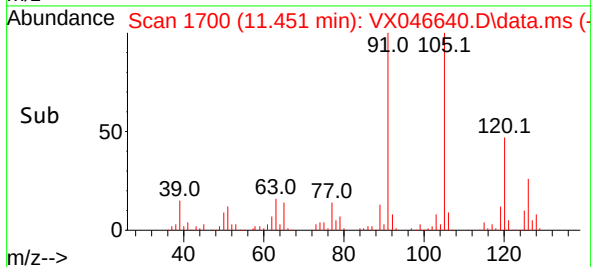
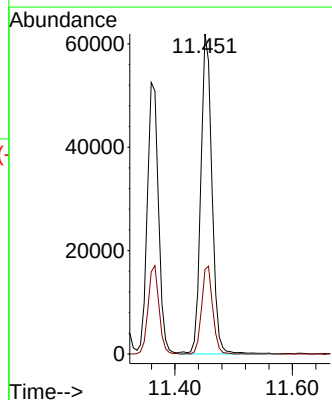
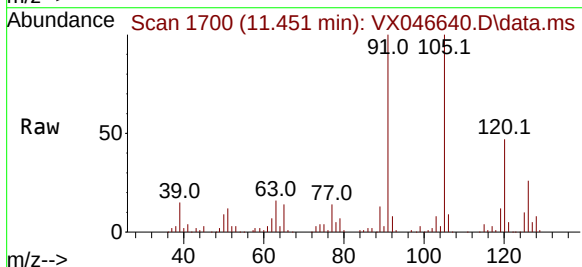
Manual Integrations
APPROVED

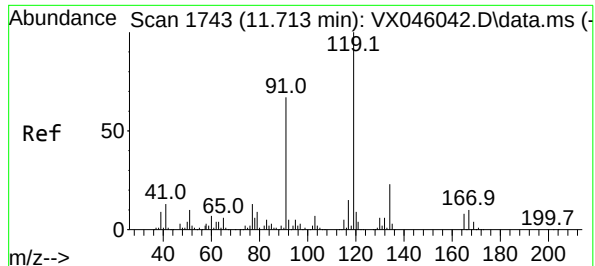
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#82
4-Chlorotoluene
Concen: 19.119 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

Tgt Ion: 91 Resp: 81676
Ion Ratio Lower Upper
91 100
126 27.0 13.3 39.8





#83

tert-Butylbenzene

Concen: 19.305 ug/l

RT: 11.713 min Scan# 1743

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion:119 Resp: 8086

Ion Ratio Lower Upper

119 100

91 61.4 32.9 98.7

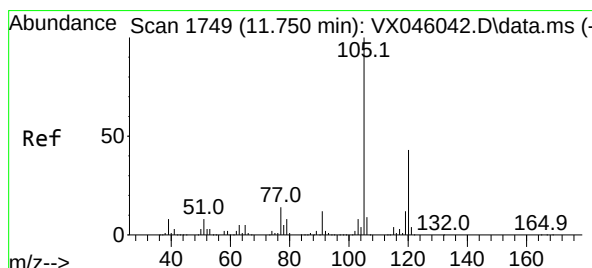
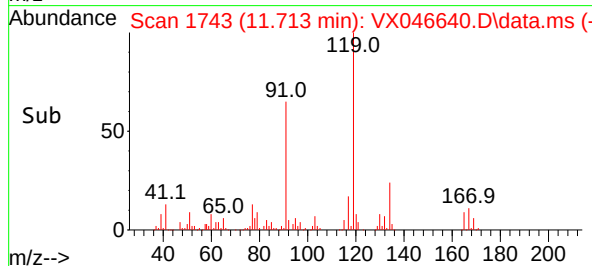
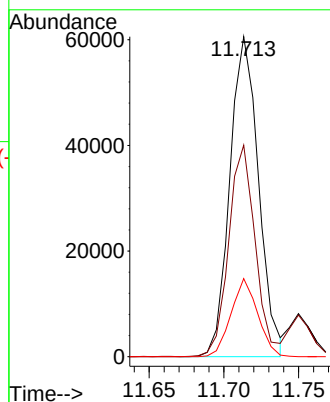
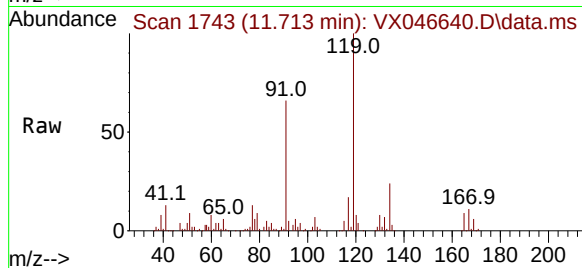
134 22.7 11.4 34.1

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#84

1,2,4-Trimethylbenzene

Concen: 19.115 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. -0.000 min

Lab File: VX046640.D

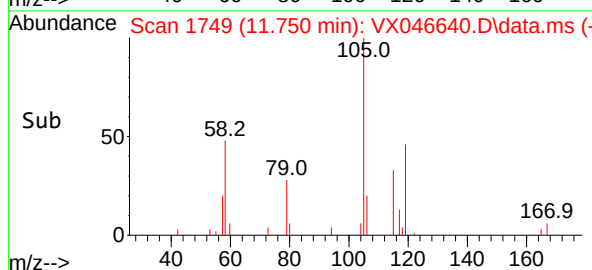
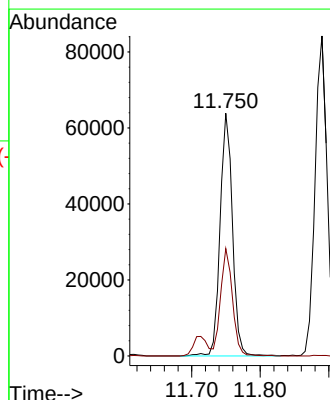
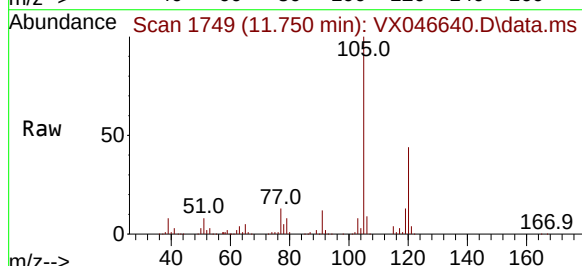
Acq: 11 Jun 2025 16:25

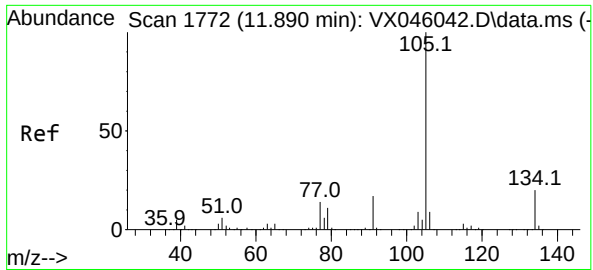
Tgt Ion:105 Resp: 79569

Ion Ratio Lower Upper

105 100

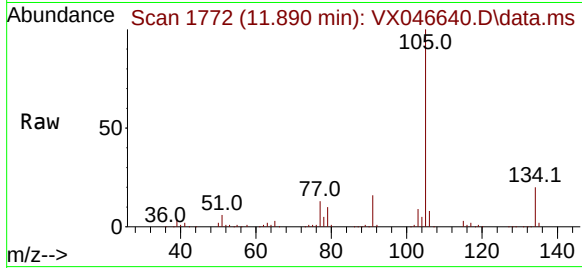
120 42.2 21.2 63.6





#85
 sec-Butylbenzene
 Concen: 19.228 ug/l
 RT: 11.890 min Scan# 1772
 Delta R.T. 0.000 min
 Lab File: VX046640.D
 Acq: 11 Jun 2025 16:25

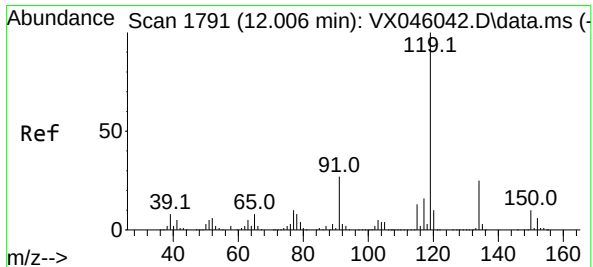
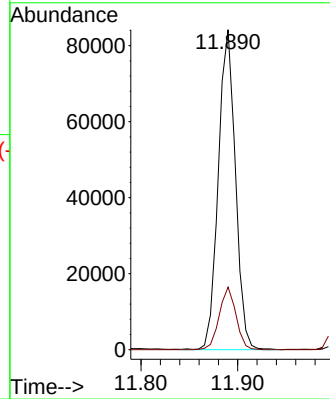
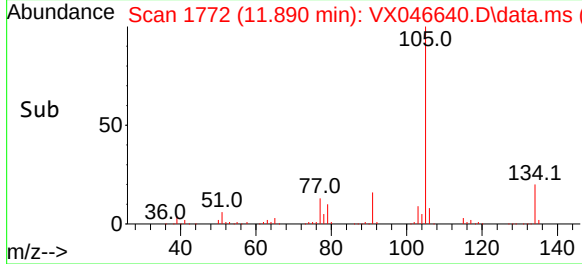
Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBSD02



Tgt Ion:105 Resp: 103489
 Ion Ratio Lower Upper
 105 100
 134 19.1 9.7 29.1

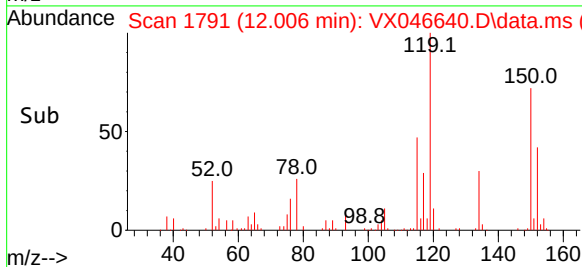
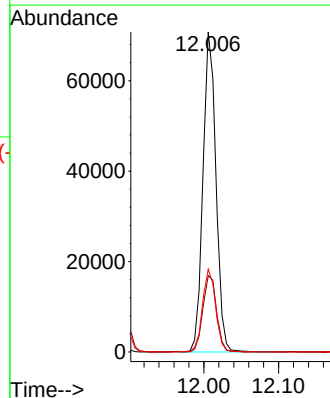
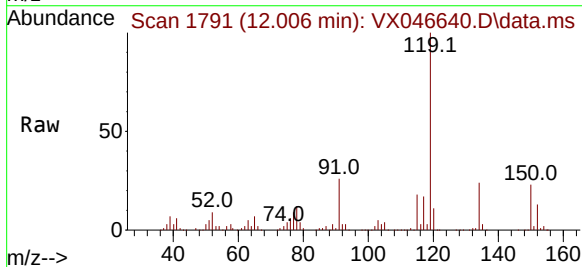
Manual Integrations
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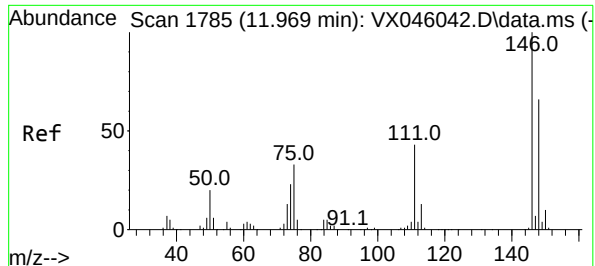
Reviewed By :John Carlone 06/12/2025
 Supervised By :Mahesh Dadoda 06/12/2025



#86
 p-Isopropyltoluene
 Concen: 19.043 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. -0.000 min
 Lab File: VX046640.D
 Acq: 11 Jun 2025 16:25

Tgt Ion:119 Resp: 85447
 Ion Ratio Lower Upper
 119 100
 134 25.2 12.5 37.5
 91 26.2 13.8 41.4





#87

1,3-Dichlorobenzene

Concen: 19.563 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion:146 Resp: 4354

Ion Ratio Lower Upper

146 100

111 43.2 22.1 66.3

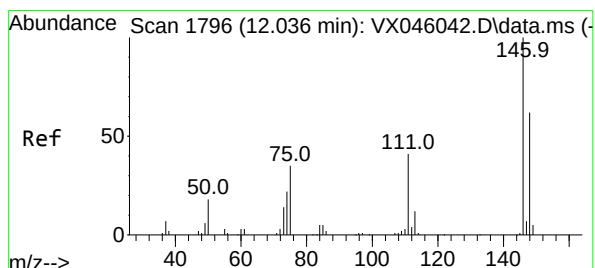
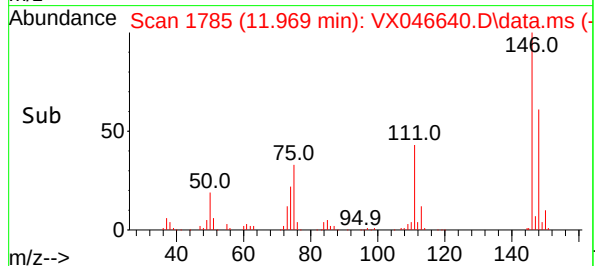
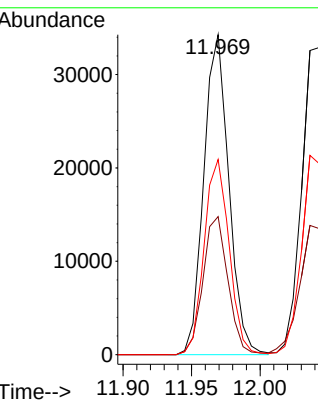
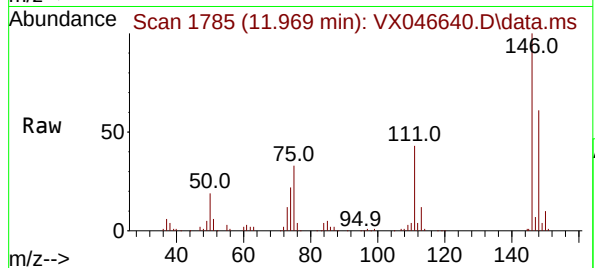
148 60.9 32.1 96.5

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#88

1,4-Dichlorobenzene

Concen: 19.066 ug/l

RT: 12.042 min Scan# 1797

Delta R.T. 0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

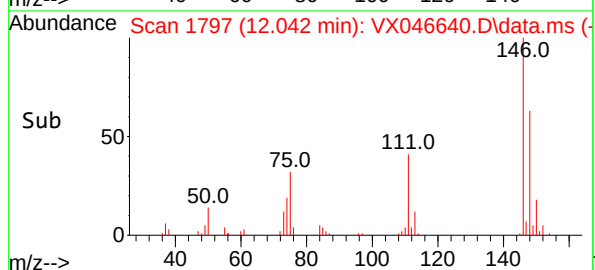
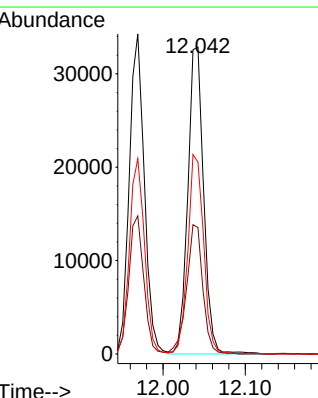
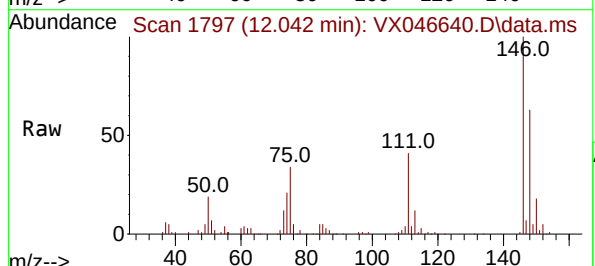
Tgt Ion:146 Resp: 43971

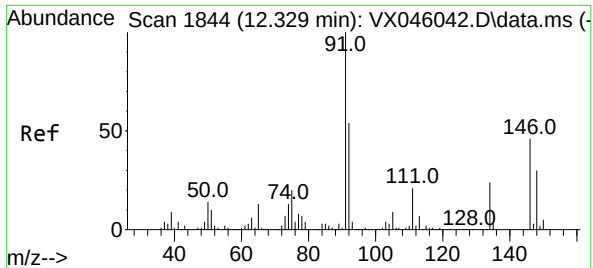
Ion Ratio Lower Upper

146 100

111 43.1 21.3 63.9

148 64.8 31.9 95.5





#89

n-Butylbenzene

Concen: 18.626 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

Tgt Ion: 91 Resp: 8207

Ion Ratio Lower Upper

91 100

92 53.4 26.9 80.7

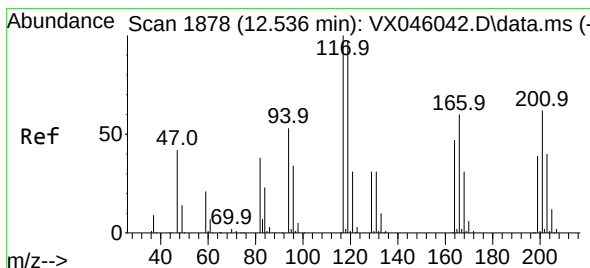
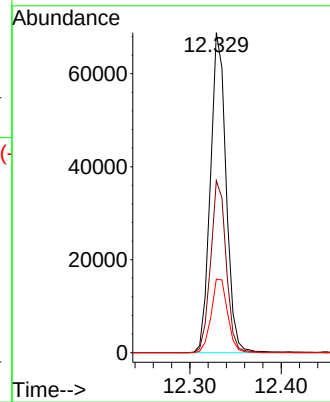
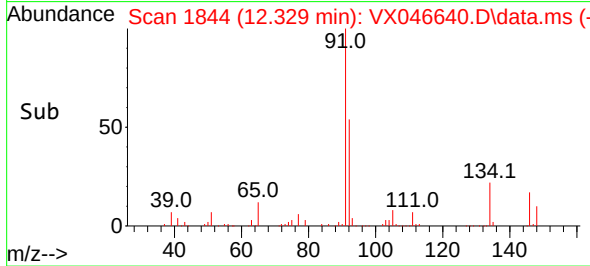
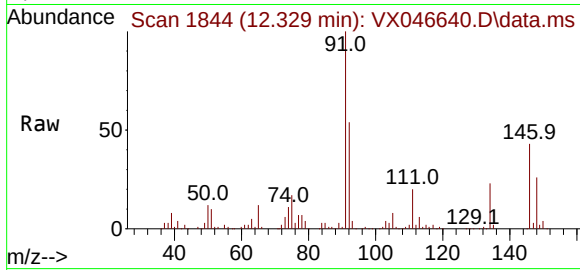
134 24.0 11.8 35.3

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#90

Hexachloroethane

Concen: 17.849 ug/l

RT: 12.536 min Scan# 1878

Delta R.T. 0.000 min

Lab File: VX046640.D

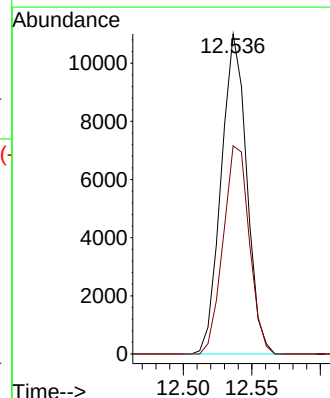
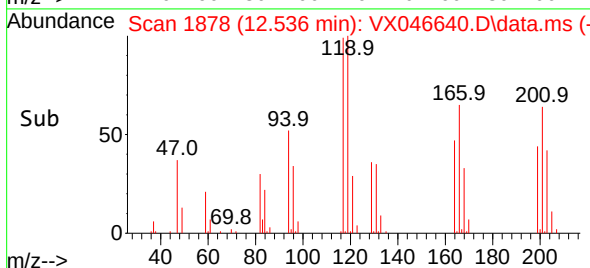
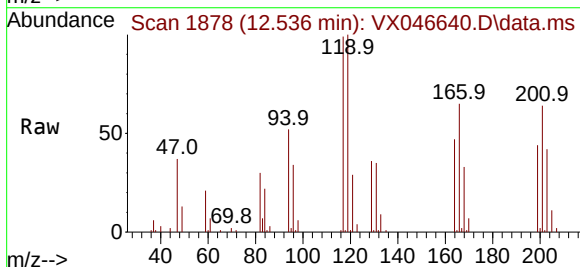
Acq: 11 Jun 2025 16:25

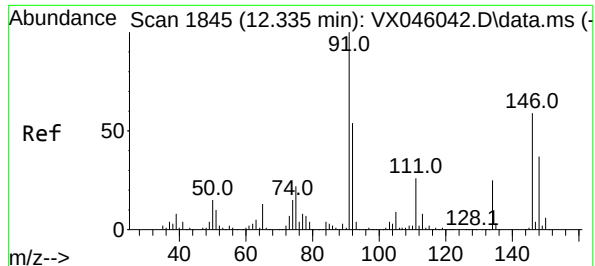
Tgt Ion:117 Resp: 14235

Ion Ratio Lower Upper

117 100

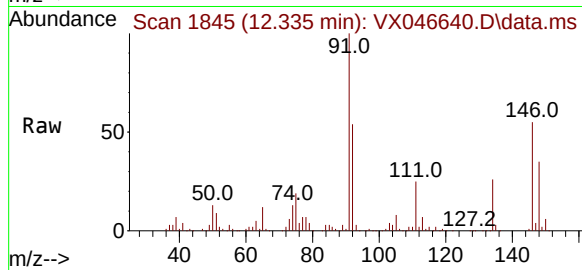
201 66.7 31.6 94.7





#91
1,2-Dichlorobenzene
Concen: 19.771 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

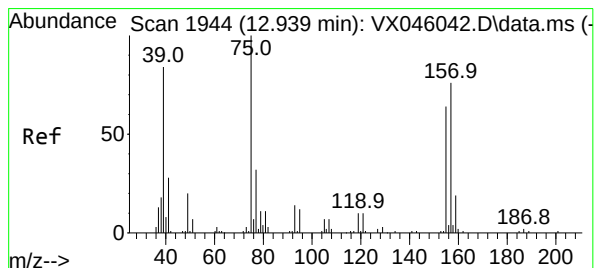
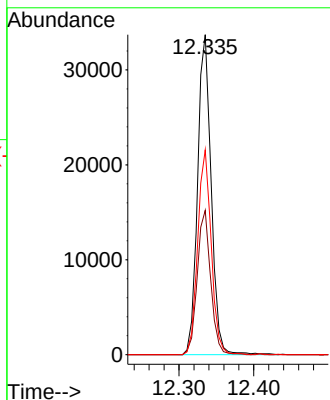
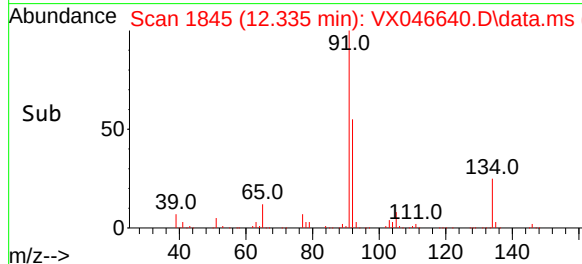
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



Tgt Ion:146 Resp: 42470
Ion Ratio Lower Upper
146 100
111 44.8 22.4 67.3
148 63.7 31.6 94.8

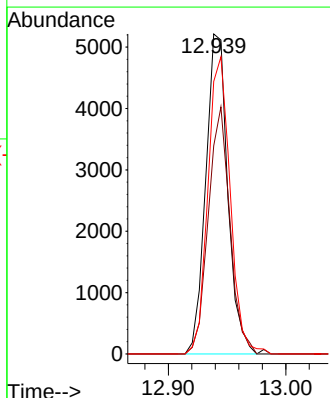
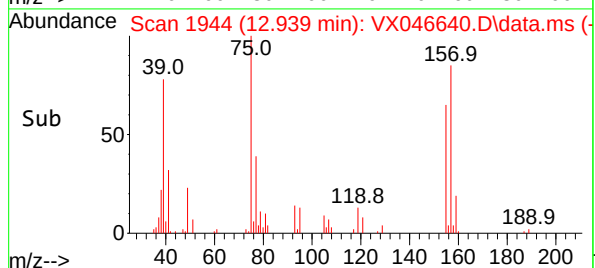
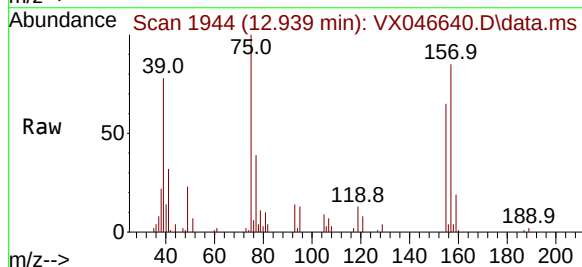
Manual Integrations
APPROVED

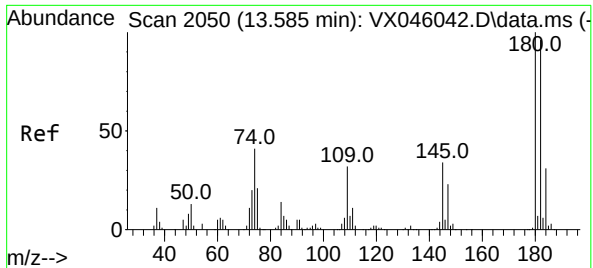
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.252 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

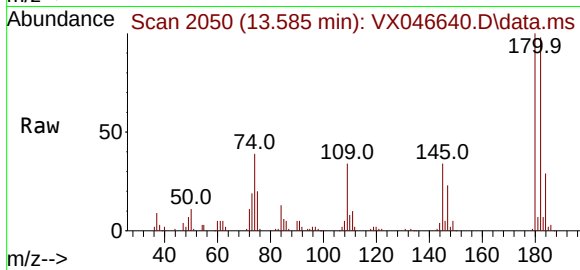
Tgt Ion: 75 Resp: 6814
Ion Ratio Lower Upper
75 100
155 75.6 34.9 104.8
157 93.7 43.8 131.4





#93
1,2,4-Trichlorobenzene
Concen: 18.649 ug/l
RT: 13.585 min Scan# 2050
Delta R.T. -0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25

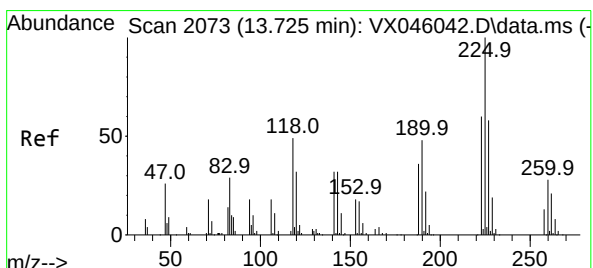
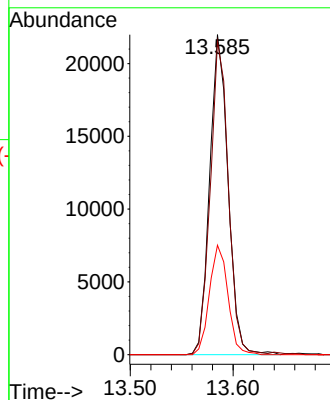
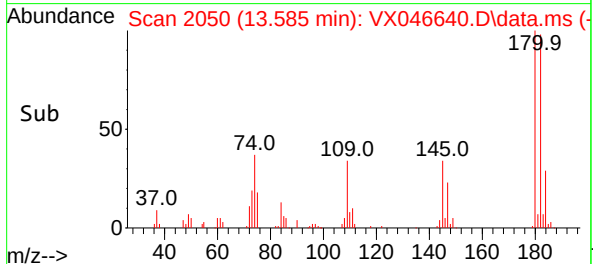
Instrument :
MSVOA_X
ClientSampleId :
VX0611WBSD02



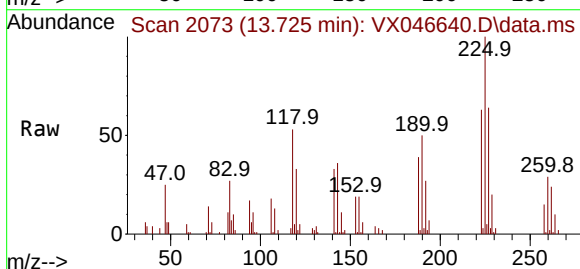
Tgt Ion:180 Resp: 2733
Ion Ratio Lower Upper
180 100
182 96.4 47.9 143.8
145 34.4 17.1 51.2

Manual Integrations
APPROVED

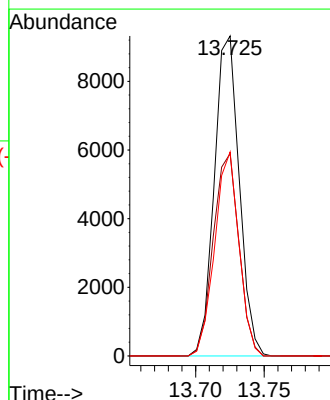
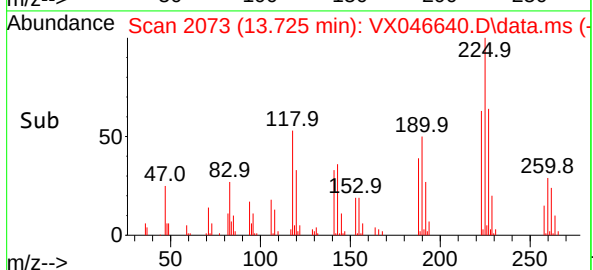
Reviewed By :John Carlone 06/12/2025
Supervised By :Mahesh Dadoda 06/12/2025

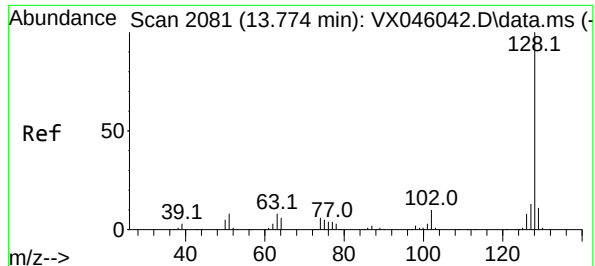


#94
Hexachlorobutadiene
Concen: 17.304 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX046640.D
Acq: 11 Jun 2025 16:25



Tgt Ion:225 Resp: 11785
Ion Ratio Lower Upper
225 100
223 65.0 30.8 92.4
227 62.0 30.9 92.7





#95

Naphthalene

Concen: 20.075 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

VX0611WBSD02

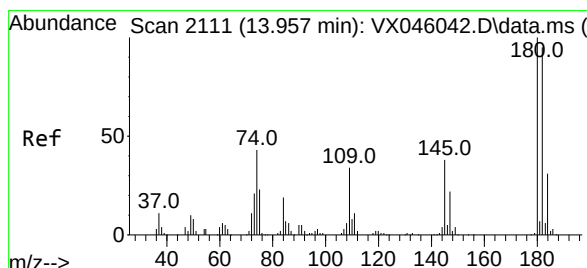
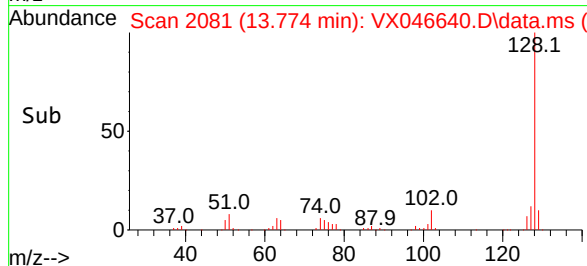
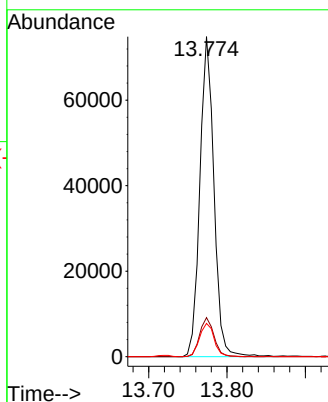
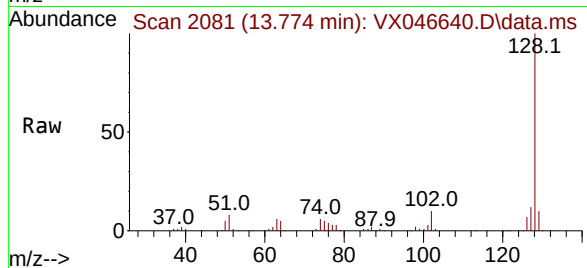
Tgt Ion:128	Resp:	93298
Ion Ratio	Lower	Upper
128	100	
127	12.4	10.4 15.6
129	10.9	8.6 13.0

Manual Integrations

APPROVED

Reviewed By :John Carlone 06/12/2025

Supervised By :Mahesh Dadoda 06/12/2025



#96

1,2,3-Trichlorobenzene

Concen: 18.646 ug/l

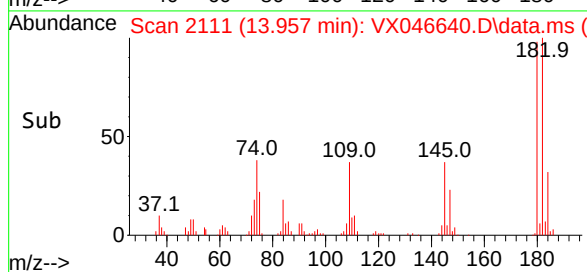
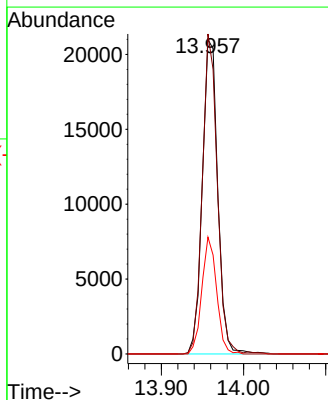
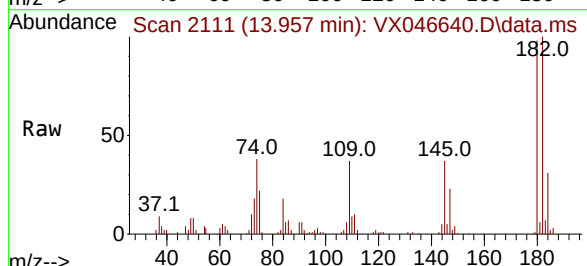
RT: 13.957 min Scan# 2111

Delta R.T. -0.000 min

Lab File: VX046640.D

Acq: 11 Jun 2025 16:25

Tgt Ion:180	Resp:	27401
Ion Ratio	Lower	Upper
180	100	
182	98.3	47.8 143.3
145	35.4	18.1 54.3



Manual Integration Report

Sequence:	VX060625	Instrument	MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDIC005	VX046518.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:36 PM	MMDadoda	6/9/2025 1:14:56 PM	Peak Integrated by Software
VSTDIC020	VX046519.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:40 PM	MMDadoda	6/9/2025 1:14:59 PM	Peak Integrated by Software
VSTDIC050	VX046520.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:44 PM	MMDadoda	6/9/2025 1:15:03 PM	Peak Integrated by Software
VSTDIC100	VX046521.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:48 PM	MMDadoda	6/9/2025 1:15:08 PM	Peak Integrated by Software
VSTDIC150	VX046522.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:25:52 PM	MMDadoda	6/9/2025 1:15:37 PM	Peak Integrated by Software
VSTDIC001	VX046524.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:08:38 AM	MMDadoda	6/9/2025 1:15:41 PM	Peak Integrated by Software
VSTDIC001	VX046524.D	1,4-Dichlorobenzene	JOHN	6/9/2025 8:08:38 AM	MMDadoda	6/9/2025 1:15:41 PM	Peak Integrated by Software
VSTDIC001	VX046524.D	Ethyl Acetate	JOHN	6/9/2025 8:08:38 AM	MMDadoda	6/9/2025 1:15:41 PM	Peak Integrated by Software
VSTDICV050	VX046525.D	1,2,3-Trichloropropane	JOHN	6/6/2025 5:26:01 PM	MMDadoda	6/9/2025 1:16:01 PM	Peak Integrated by Software
VSTDCCC050	VX046544.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:10:18 AM	MMDadoda	6/9/2025 1:16:52 PM	Peak Integrated by Software
VSTDCCC050	VX046546.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:10:22 AM	MMDadoda	6/9/2025 1:16:54 PM	Peak Integrated by Software
VSTDCCC050	VX046565.D	1,2,3-Trichloropropane	JOHN	6/9/2025 8:12:06 AM	Sam	6/9/2025 1:18:52 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

VX060625

Instrument

MSVOA_x

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

VX061125

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC020	VX046628.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:58:34 AM	MMDadoda	6/12/2025 3:52:37 PM	Peak Integrated by Software
VSTDCCC020	VX046628.D	2,2-Dichloropropane	JOHN	6/12/2025 9:58:34 AM	MMDadoda	6/12/2025 3:52:37 PM	Peak Integrated by Software
VSTDCCC020	VX046628.D	Ethyl Acetate	JOHN	6/12/2025 9:58:34 AM	MMDadoda	6/12/2025 3:52:37 PM	Peak Integrated by Software
VSTDCCC050	VX046636.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:58:51 AM	MMDadoda	6/12/2025 3:52:52 PM	Peak Integrated by Software
VSTDCCC050	VX046636.D	Chloroethane	JOHN	6/12/2025 9:58:51 AM	MMDadoda	6/12/2025 3:52:52 PM	Peak Integrated by Software
VX0611WBS02	VX046639.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:58:55 AM	MMDadoda	6/12/2025 3:52:54 PM	Peak Integrated by Software
VX0611WBS02	VX046639.D	Chloroethane	JOHN	6/12/2025 9:58:55 AM	MMDadoda	6/12/2025 3:52:54 PM	Peak Integrated by Software
VX0611WBSD0 2	VX046640.D	1,2,3-Trichloropropane	JOHN	6/12/2025 9:59:00 AM	MMDadoda	6/12/2025 3:52:59 PM	Peak Integrated by Software
VX0611WBSD0 2	VX046640.D	Chloroethane	JOHN	6/12/2025 9:59:00 AM	MMDadoda	6/12/2025 3:52:59 PM	Peak Integrated by Software
VSTDCCC050	VX046655.D	1,2,3-Trichloropropane	JOHN	6/12/2025 10:00:06 AM	MMDadoda	6/12/2025 3:53:28 PM	Peak Integrated by Software

Manual Integration Report

Sequence:

vx061225

Instrument

MSVOA_x

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
VSTDCCC050	VX046657.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:02:14 AM	MMDadoda	6/13/2025 10:58:05 AM	Peak Integrated by Software
VX0612WBS01	VX046660.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:02:18 AM	MMDadoda	6/13/2025 10:58:06 AM	Peak Integrated by Software
VSTDCCC050	VX046673.D	1,2,3-Trichloropropane	JOHN	6/13/2025 10:02:43 AM	MMDadoda	6/13/2025 10:58:16 AM	Peak Integrated by Software

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Mahesh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046516.D	06 Jun 2025 08:47	JC/MD	Ok
2	VSTDIC001	VX046517.D	06 Jun 2025 09:13	JC/MD	Not Ok
3	VSTDIC005	VX046518.D	06 Jun 2025 09:42	JC/MD	Ok,M
4	VSTDIC020	VX046519.D	06 Jun 2025 10:18	JC/MD	Ok,M
5	VSTDIC050	VX046520.D	06 Jun 2025 10:40	JC/MD	Ok,M
6	VSTDIC100	VX046521.D	06 Jun 2025 11:02	JC/MD	Ok,M
7	VSTDIC150	VX046522.D	06 Jun 2025 11:25	JC/MD	Ok,M
8	IBLK	VX046523.D	06 Jun 2025 11:47	JC/MD	Ok
9	VSTDIC001	VX046524.D	06 Jun 2025 12:57	JC/MD	Ok,M
10	VSTDICV050	VX046525.D	06 Jun 2025 14:11	JC/MD	Ok,M
11	VX0606MBL01	VX046526.D	06 Jun 2025 14:39	JC/MD	Ok
12	VX0606WBL01	VX046527.D	06 Jun 2025 15:02	JC/MD	Ok
13	VX0606WBS01	VX046528.D	06 Jun 2025 15:25	JC/MD	Ok,M
14	VX0606MBS01	VX046529.D	06 Jun 2025 15:51	JC/MD	Ok,M
15	Q2168-11MEDL	VX046530.D	06 Jun 2025 16:13	JC/MD	Ok
16	VX0606WBSD01	VX046531.D	06 Jun 2025 16:36	JC/MD	Ok,M
17	Q2194-02	VX046532.D	06 Jun 2025 16:58	JC/MD	Ok
18	Q2194-04	VX046533.D	06 Jun 2025 17:21	JC/MD	Ok
19	Q2207-09	VX046534.D	06 Jun 2025 17:43	JC/MD	Ok,M
20	Q2207-18	VX046535.D	06 Jun 2025 18:06	JC/MD	Ok,M
21	Q2207-27	VX046536.D	06 Jun 2025 18:28	JC/MD	Ok,M

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2207-36	VX046537.D	06 Jun 2025 18:51	JC/MD	Ok,M
23	Q2207-45	VX046538.D	06 Jun 2025 19:13	JC/MD	Ok,M
24	Q2208-09	VX046539.D	06 Jun 2025 19:35	JC/MD	Ok,M
25	Q2208-18	VX046540.D	06 Jun 2025 19:58	JC/MD	Ok,M
26	Q2208-27	VX046541.D	06 Jun 2025 20:20	JC/MD	Ok,M
27	Q2208-36	VX046542.D	06 Jun 2025 20:42	JC/MD	Ok,M
28	Q2236-01	VX046543.D	06 Jun 2025 21:04	JC/MD	Not Ok
29	VSTDCCC050	VX046544.D	06 Jun 2025 21:26	JC/MD	Not Ok
30	BFB	VX046545.D	06 Jun 2025 23:59	JC/MD	Ok
31	VSTDCCC050	VX046546.D	07 Jun 2025 00:34	JC/MD	Ok,M
32	VX0606WBL02	VX046547.D	07 Jun 2025 01:17	JC/MD	Ok
33	VX0606WBS02	VX046548.D	07 Jun 2025 02:00	JC/MD	Ok,M
34	VX0606WBSD02	VX046549.D	07 Jun 2025 02:22	JC/MD	Ok,M
35	PB168312TB	VX046550.D	07 Jun 2025 02:43	JC/MD	Ok,M
36	PB168272TB	VX046551.D	07 Jun 2025 03:05	JC/MD	Ok,M
37	Q2236-05	VX046552.D	07 Jun 2025 03:26	JC/MD	ReRun
38	Q2236-09	VX046553.D	07 Jun 2025 03:48	JC/MD	ReRun
39	Q2236-13	VX046554.D	07 Jun 2025 04:09	JC/MD	Ok
40	Q2236-17	VX046555.D	07 Jun 2025 04:31	JC/MD	ReRun
41	Q2227-04	VX046556.D	07 Jun 2025 04:52	JC/MD	Ok,M
42	Q2228-04	VX046557.D	07 Jun 2025 05:14	JC/MD	ReRun
43	Q2235-01	VX046558.D	07 Jun 2025 05:36	JC/MD	ReRun
44	Q2240-04	VX046559.D	07 Jun 2025 05:57	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134153		
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC	VP134154		
Internal Standard/PEM			
ICV/I.BLK	VP134241		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

45	Q2240-08	VX046560.D	07 Jun 2025 06:18	JC/MD	ReRun
46	Q2240-12	VX046561.D	07 Jun 2025 06:40	JC/MD	ReRun
47	Q2241-04	VX046562.D	07 Jun 2025 07:01	JC/MD	ReRun
48	Q2241-08	VX046563.D	07 Jun 2025 07:23	JC/MD	ReRun
49	Q2226-04	VX046564.D	07 Jun 2025 07:44	JC/MD	ReRun
50	VSTDCCC050	VX046565.D	07 Jun 2025 08:06	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Mahesh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046627.D	11 Jun 2025 10:45	JC/MD	Ok
2	VSTDCCC020	VX046628.D	11 Jun 2025 11:12	JC/MD	Ok,M
3	VX0611WBS01	VX046629.D	11 Jun 2025 11:43	JC/MD	Ok,M
4	VX0611WBSD01	VX046630.D	11 Jun 2025 12:09	JC/MD	Ok,M
5	VX0611WBL01	VX046631.D	11 Jun 2025 12:31	JC/MD	Ok
6	Q2203-01DL	VX046632.D	11 Jun 2025 12:57	JC/MD	Ok,M
7	Q2203-04DL	VX046633.D	11 Jun 2025 13:18	JC/MD	Ok,M
8	Q2264-01	VX046634.D	11 Jun 2025 13:40	JC/MD	Ok,M
9	BFB	VX046635.D	11 Jun 2025 14:01	JC/MD	Ok
10	VSTDCCC050	VX046636.D	11 Jun 2025 14:46	JC/MD	Ok,M
11	VX0611WBL02	VX046637.D	11 Jun 2025 15:14	JC/MD	Ok
12	VX0611MBL01	VX046638.D	11 Jun 2025 15:36	JC/MD	Ok
13	VX0611WBS02	VX046639.D	11 Jun 2025 15:58	JC/MD	Ok,M
14	VX0611WBSD02	VX046640.D	11 Jun 2025 16:25	JC/MD	Ok,M
15	Q2230-03MS	VX046641.D	11 Jun 2025 16:47	JC/MD	Not Ok
16	Q2230-04MSD	VX046642.D	11 Jun 2025 17:09	JC/MD	Ok,M
17	IBLK	VX046643.D	11 Jun 2025 17:31	JC/MD	Ok
18	Q2249-01	VX046644.D	11 Jun 2025 17:53	JC/MD	ReRun
19	Q2271-04	VX046645.D	11 Jun 2025 18:15	JC/MD	ReRun
20	Q2272-04	VX046646.D	11 Jun 2025 18:37	JC/MD	ReRun
21	Q2273-04	VX046647.D	11 Jun 2025 18:59	JC/MD	ReRun

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Mahesh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2273-08	VX046648.D	11 Jun 2025 19:21	JC/MD	ReRun
23	Q2274-04	VX046649.D	11 Jun 2025 19:43	JC/MD	ReRun
24	Q2278-04	VX046650.D	11 Jun 2025 20:04	JC/MD	ReRun
25	Q2280-02	VX046651.D	11 Jun 2025 20:26	JC/MD	ReRun
26	Q2280-04	VX046652.D	11 Jun 2025 20:48	JC/MD	ReRun
27	Q2285-05	VX046653.D	11 Jun 2025 21:10	JC/MD	ReRun
28	PB168370TB	VX046654.D	11 Jun 2025 21:32	JC/MD	Ok,M
29	VSTDCCC050	VX046655.D	11 Jun 2025 21:53	JC/MD	Ok,M

M : Manual Integration

Instrument ID: **MSVOA_X**

Daily Analysis Runlog For Sequence/QC Batch ID # VX061225

Review By	John Carlone	Review On	6/13/2025 10:05:11 AM
Supervise By	Maresh Dadoda	Supervise On	6/13/2025 10:58:22 AM
SubDirectory	VX061225	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134305		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134306,VP134307		

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	BFB	VX046656.D	12 Jun 2025 09:44	JC/MD	Ok
2	VSTDCCC050	VX046657.D	12 Jun 2025 10:11	JC/MD	Ok,M
3	VX0612MBL01	VX046658.D	12 Jun 2025 12:48	JC/MD	Ok
4	VX0612WBL01	VX046659.D	12 Jun 2025 13:10	JC/MD	Ok
5	VX0612WBS01	VX046660.D	12 Jun 2025 13:38	JC/MD	Ok,M
6	Q2249-01RE	VX046661.D	12 Jun 2025 14:04	JC/MD	Confirms
7	VX0612WBSD01	VX046662.D	12 Jun 2025 14:26	JC/MD	Ok,M
8	Q2249-01	VX046663.D	12 Jun 2025 14:53	JC/MD	Not Ok
9	Q2249-01	VX046664.D	12 Jun 2025 15:24	JC/MD	Not Ok
10	Q2275-01	VX046665.D	12 Jun 2025 15:46	JC/MD	Ok
11	Q2275-05	VX046666.D	12 Jun 2025 16:10	JC/MD	ReRun
12	Q2275-03	VX046667.D	12 Jun 2025 16:32	JC/MD	Ok
13	Q2275-05	VX046668.D	12 Jun 2025 16:55	JC/MD	Ok
14	Q2267-01	VX046669.D	12 Jun 2025 17:17	JC/MD	Ok,M
15	Q2278-04	VX046670.D	12 Jun 2025 17:40	JC/MD	Ok,M
16	Q2285-05	VX046671.D	12 Jun 2025 18:02	JC/MD	Ok,M
17	PB168448TB	VX046672.D	12 Jun 2025 18:24	JC/MD	Ok,M
18	VSTDCCC050	VX046673.D	12 Jun 2025 18:47	JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Mahesh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134153
Initial Calibration Stds	VP134235,VP134236,VP134237,VP134238,VP134239,VP134240
CCC	VP134154
Internal Standard/PEM	
ICV/I.BLK	VP134241
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046516.D	06 Jun 2025 08:47		JC/MD	Ok
2	VSTDIC001	VSTDIC001	VX046517.D	06 Jun 2025 09:13		JC/MD	Not Ok
3	VSTDIC005	VSTDIC005	VX046518.D	06 Jun 2025 09:42	for TCLP	JC/MD	Ok,M
4	VSTDIC020	VSTDIC020	VX046519.D	06 Jun 2025 10:18	Comp #05 fail	JC/MD	Ok,M
5	VSTDIC050	VSTDIC050	VX046520.D	06 Jun 2025 10:40	LR-13,16,17	JC/MD	Ok,M
6	VSTDIC100	VSTDIC100	VX046521.D	06 Jun 2025 11:02		JC/MD	Ok,M
7	VSTDIC150	VSTDIC150	VX046522.D	06 Jun 2025 11:25		JC/MD	Ok,M
8	IBLK	IBLK	VX046523.D	06 Jun 2025 11:47		JC/MD	Ok
9	VSTDIC001	VSTDIC001	VX046524.D	06 Jun 2025 12:57		JC/MD	Ok,M
10	VSTDICV050	ICVVX060625	VX046525.D	06 Jun 2025 14:11		JC/MD	Ok,M
11	VX0606MBL01	VX0606MBL01	VX046526.D	06 Jun 2025 14:39		JC/MD	Ok
12	VX0606WBL01	VX0606WBL01	VX046527.D	06 Jun 2025 15:02		JC/MD	Ok
13	VX0606WBS01	VX0606WBS01	VX046528.D	06 Jun 2025 15:25		JC/MD	Ok,M
14	VX0606MBS01	VX0606MBS01	VX046529.D	06 Jun 2025 15:51		JC/MD	Ok,M
15	Q2168-11MEDL	C2MEDL	VX046530.D	06 Jun 2025 16:13		JC/MD	Ok
16	VX0606WBSD01	VX0606WBSD01	VX046531.D	06 Jun 2025 16:36		JC/MD	Ok,M
17	Q2194-02	COMP-12	VX046532.D	06 Jun 2025 16:58	vial A pH#5.0	JC/MD	Ok
18	Q2194-04	COMP-13	VX046533.D	06 Jun 2025 17:21	vial A pH#5.0	JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134153 VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC Internal Standard/PEM	VP134154		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134241		

19	Q2207-09	BU-703-COMP-01	VX046534.D	06 Jun 2025 17:43	vial A pH#5.0	JC/MD	Ok,M
20	Q2207-18	BU-703-COMP-02	VX046535.D	06 Jun 2025 18:06	vial A pH#5.0	JC/MD	Ok,M
21	Q2207-27	BU-703-COMP-03	VX046536.D	06 Jun 2025 18:28	vial A pH#5.0	JC/MD	Ok,M
22	Q2207-36	BU-703-COMP-04	VX046537.D	06 Jun 2025 18:51	vial A pH#5.0	JC/MD	Ok,M
23	Q2207-45	BU-703-COMP-05	VX046538.D	06 Jun 2025 19:13	vial A pH#5.0	JC/MD	Ok,M
24	Q2208-09	BU-703-COMP-06	VX046539.D	06 Jun 2025 19:35	vial A pH#5.0	JC/MD	Ok,M
25	Q2208-18	BU-703-COMP-07	VX046540.D	06 Jun 2025 19:58	vial A pH#5.0	JC/MD	Ok,M
26	Q2208-27	BU-703-COMP-08	VX046541.D	06 Jun 2025 20:20	vial A pH#5.0	JC/MD	Ok,M
27	Q2208-36	BU-703-COMP-09	VX046542.D	06 Jun 2025 20:42	vial A pH#5.0	JC/MD	Ok,M
28	Q2236-01	WC-A4-05A-G	VX046543.D	06 Jun 2025 21:04	vial A pH#5.0 Out of tune	JC/MD	Not Ok
29	VSTDCCC050	VSTDCCC050EC	VX046544.D	06 Jun 2025 21:26	Out of tune	JC/MD	Not Ok
30	BFB	BFB	VX046545.D	06 Jun 2025 23:59		JC/MD	Ok
31	VSTDCCC050	VSTDCCC050	VX046546.D	07 Jun 2025 00:34		JC/MD	Ok,M
32	VX0606WBL02	VX0606WBL02	VX046547.D	07 Jun 2025 01:17		JC/MD	Ok
33	VX0606WBS02	VX0606WBS02	VX046548.D	07 Jun 2025 02:00		JC/MD	Ok,M
34	VX0606WBSD02	VX0606WBSD02	VX046549.D	07 Jun 2025 02:22		JC/MD	Ok,M
35	PB168312TB	PB168312TB	VX046550.D	07 Jun 2025 02:43		JC/MD	Ok,M
36	PB168272TB	PB168272TB	VX046551.D	07 Jun 2025 03:05		JC/MD	Ok,M
37	Q2236-05	WC-A2-04-G	VX046552.D	07 Jun 2025 03:26	Surrogate Fail	JC/MD	ReRun

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX060625

Review By	Maresh Dadoda	Review On	6/9/2025 1:15:21 PM
Supervise By	Semsettin Yesilyurt	Supervise On	6/9/2025 1:19:58 PM
SubDirectory	VX060625	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134153 VP134235,VP134236,VP134237,VP134238,VP134239,VP134240		
CCC Internal Standard/PEM	VP134154		
ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134241		

38	Q2236-09	WC-A2-05-G	VX046553.D	07 Jun 2025 03:48	Internal Standard Fail	JC/MD	ReRun
39	Q2236-13	WC-A2-06-G	VX046554.D	07 Jun 2025 04:09	vial A pH#5.0	JC/MD	Ok
40	Q2236-17	WC-A2-07-G	VX046555.D	07 Jun 2025 04:31	Internal Standard Fail; Surrogate fail	JC/MD	ReRun
41	Q2227-04	TP07-MHH-WC	VX046556.D	07 Jun 2025 04:52		JC/MD	Ok,M
42	Q2228-04	TP08-MHI-WC	VX046557.D	07 Jun 2025 05:14	Internal Standard Fail	JC/MD	ReRun
43	Q2235-01	WC-A2-08-G	VX046558.D	07 Jun 2025 05:36	Internal Standard Fail	JC/MD	ReRun
44	Q2240-04	TP-3	VX046559.D	07 Jun 2025 05:57	Internal Standard Fail	JC/MD	ReRun
45	Q2240-08	TP-2	VX046560.D	07 Jun 2025 06:18	Internal Standard Fail	JC/MD	ReRun
46	Q2240-12	TP-1	VX046561.D	07 Jun 2025 06:40	Internal Standard Fail	JC/MD	ReRun
47	Q2241-04	TP-N	VX046562.D	07 Jun 2025 07:01	Internal Standard Fail	JC/MD	ReRun
48	Q2241-08	TP-S	VX046563.D	07 Jun 2025 07:23	Internal Standard Fail	JC/MD	ReRun
49	Q2226-04	TP06-MHI-WC	VX046564.D	07 Jun 2025 07:44	Internal Standard Fail	JC/MD	ReRun
50	VSTDCCC050	VSTDCCC050EC	VX046565.D	07 Jun 2025 08:06		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Maresh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M

STD. NAME	STD REF.#
Tune/Reschk	VP134259,VP134275
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320
CCC	VP134260,VP134261,VP134276,VP134277
Internal Standard/PEM	
ICV/I.BLK	VP134321
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046627.D	11 Jun 2025 10:45		JC/MD	Ok
2	VSTDCCC020	VSTDCCC020	VX046628.D	11 Jun 2025 11:12	pH#Lot#V12668	JC/MD	Ok,M
3	VX0611WBS01	VX0611WBS01	VX046629.D	11 Jun 2025 11:43		JC/MD	Ok,M
4	VX0611WBSD01	VX0611WBSD01	VX046630.D	11 Jun 2025 12:09		JC/MD	Ok,M
5	VX0611WBL01	VX0611WBL01	VX046631.D	11 Jun 2025 12:31		JC/MD	Ok
6	Q2203-01DL	001-WILLETS-PT-BLVD	VX046632.D	11 Jun 2025 12:57	vial B pH<2	JC/MD	Ok,M
7	Q2203-04DL	002-35TH-AVE(JUNE)	VX046633.D	11 Jun 2025 13:18	vial B pH<2	JC/MD	Ok,M
8	Q2264-01	EFF-WW	VX046634.D	11 Jun 2025 13:40	vial A pH<2 foamy sample	JC/MD	Ok,M
9	BFB	BFB	VX046635.D	11 Jun 2025 14:01		JC/MD	Ok
10	VSTDCCC050	VSTDCCC050	VX046636.D	11 Jun 2025 14:46		JC/MD	Ok,M
11	VX0611WBL02	VX0611WBL02	VX046637.D	11 Jun 2025 15:14		JC/MD	Ok
12	VX0611MBL01	VX0611MBL01	VX046638.D	11 Jun 2025 15:36		JC/MD	Ok
13	VX0611WBS02	VX0611WBS02	VX046639.D	11 Jun 2025 15:58		JC/MD	Ok,M
14	VX0611WBSD02	VX0611WBSD02	VX046640.D	11 Jun 2025 16:25		JC/MD	Ok,M
15	Q2230-03MS	GW-MW01-060425MS	VX046641.D	11 Jun 2025 16:47	Recovery failed above 50% compound of client ask parameter	JC/MD	Not Ok
16	Q2230-04MSD	GW-MW01-060425MS	VX046642.D	11 Jun 2025 17:09		JC/MD	Ok,M
17	IBLK	IBLK	VX046643.D	11 Jun 2025 17:31		JC/MD	Ok

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061125

Review By	John Carlone	Review On	6/12/2025 10:06:05 AM
Supervise By	Maresh Dadoda	Supervise On	6/12/2025 3:53:50 PM
SubDirectory	VX061125	HP Acquire Method	HP Processing Method 624X061025W.M
STD. NAME	STD REF.#		
Tune/Reschk	VP134259,VP134275		
Initial Calibration Stds	VP134316,VP134317,VP134318,VP134319,VP134320		
CCC	VP134260,VP134261,VP134276,VP134277		
Internal Standard/PEM			
ICV/I.BLK	VP134321		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q2249-01	MW-06-6.5-060525	VX046644.D	11 Jun 2025 17:53	Internal Standard Fail	JC/MD	ReRun
19	Q2271-04	TP12-MHK-WC	VX046645.D	11 Jun 2025 18:15	Internal Standard Fail	JC/MD	ReRun
20	Q2272-04	TP-6	VX046646.D	11 Jun 2025 18:37	Internal Standard Fail ;Surrogate fail	JC/MD	ReRun
21	Q2273-04	WC-4	VX046647.D	11 Jun 2025 18:59	Internal Standard Fail	JC/MD	ReRun
22	Q2273-08	WC-6	VX046648.D	11 Jun 2025 19:21	Internal Standard Fail ;Surrogate fail	JC/MD	ReRun
23	Q2274-04	TP-13-MHP-WC	VX046649.D	11 Jun 2025 19:43	Internal Standard Fail; Surrogate fail	JC/MD	ReRun
24	Q2278-04	TP-2	VX046650.D	11 Jun 2025 20:04	Surrogate Fail	JC/MD	ReRun
25	Q2280-02	VNJ-210	VX046651.D	11 Jun 2025 20:26	Internal Standard Fail	JC/MD	ReRun
26	Q2280-04	RT-4643	VX046652.D	11 Jun 2025 20:48	Internal Standard Fail	JC/MD	ReRun
27	Q2285-05	HAM-CONCRETE	VX046653.D	11 Jun 2025 21:10	Internal Standard Fail	JC/MD	ReRun
28	PB168370TB	PB168370TB	VX046654.D	11 Jun 2025 21:32		JC/MD	Ok,M
29	VSTDCCC050	VSTDCCC050EC	VX046655.D	11 Jun 2025 21:53		JC/MD	Ok,M

M : Manual Integration

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QC Batch ID # VX061225

Review By	John Carlone	Review On	6/13/2025 10:05:11 AM
Supervise By	Maresh Dadoda	Supervise On	6/13/2025 10:58:22 AM
SubDirectory	VX061225	HP Acquire Method	HP Processing Method 82X060625W.M

STD. NAME	STD REF.#
Tune/Reschk Initial Calibration Stds	VP134305
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134306,VP134307

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	BFB	BFB	VX046656.D	12 Jun 2025 09:44		JC/MD	Ok
2	VSTDCCC050	VSTDCCC050	VX046657.D	12 Jun 2025 10:11		JC/MD	Ok,M
3	VX0612MBL01	VX0612MBL01	VX046658.D	12 Jun 2025 12:48		JC/MD	Ok
4	VX0612WBL01	VX0612WBL01	VX046659.D	12 Jun 2025 13:10		JC/MD	Ok
5	VX0612WBS01	VX0612WBS01	VX046660.D	12 Jun 2025 13:38		JC/MD	Ok,M
6	Q2249-01RE	MW-06-6.5-060525RE	VX046661.D	12 Jun 2025 14:04	vial B pH<2 ISTD Fail	JC/MD	Confirms
7	VX0612WBSD01	VX0612WBSD01	VX046662.D	12 Jun 2025 14:26		JC/MD	Ok,M
8	Q2249-01	MW-06-6.5-060525	VX046663.D	12 Jun 2025 14:53	Not req	JC/MD	Not Ok
9	Q2249-01	MW-06-6.5-060525	VX046664.D	12 Jun 2025 15:24	Not req	JC/MD	Not Ok
10	Q2275-01	OW-08B-72.5-060925	VX046665.D	12 Jun 2025 15:46	vial A pH<2	JC/MD	Ok
11	Q2275-05	TB01-060925	VX046666.D	12 Jun 2025 16:10	vial A pH<2 TB; Surrogate Fail	JC/MD	ReRun
12	Q2275-03	EB01-060925	VX046667.D	12 Jun 2025 16:32	vial A pH<2 EB	JC/MD	Ok
13	Q2275-05	TB01-060925	VX046668.D	12 Jun 2025 16:55	vial B pH<2 TB	JC/MD	Ok
14	Q2267-01	WC-20250605	VX046669.D	12 Jun 2025 17:17	vial A pH#5.0	JC/MD	Ok,M
15	Q2278-04	TP-2	VX046670.D	12 Jun 2025 17:40	vial B pH#5.0	JC/MD	Ok,M
16	Q2285-05	HAM-CONCRETE	VX046671.D	12 Jun 2025 18:02	vial B pH#5.0	JC/MD	Ok,M
17	PB168448TB	PB168448TB	VX046672.D	12 Jun 2025 18:24		JC/MD	Ok,M
18	VSTDCCC050	VSTDCCC050EC	VX046673.D	12 Jun 2025 18:47		JC/MD	Ok,M

Instrument ID: MSVOA_X

Daily Analysis Runlog For Sequence/QCBatch ID # VX061225

Review By	John Carlone	Review On	6/13/2025 10:05:11 AM
Supervise By	Mahesh Dadoda	Supervise On	6/13/2025 10:58:22 AM
SubDirectory	VX061225	HP Acquire Method	HP Processing Method 82X060625W.M
STD. NAME	STD REF.#		
Tune/Reschk Initial Calibration Stds	VP134305		
CCC Internal Standard/PEM ICV/I.BLK Surrogate Standard MS/MSD Standard LCS Standard	VP134306,VP134307		

M : Manual Integration

Prep Standard - Chemical Standard Summary

Order ID : Q2249

Test : VOCMS Group3

Prepbatch ID :

Sequence ID/Qc Batch ID: vx061125,vx061225,

Standard ID :

VP133174,VP133251,VP133887,VP133889,VP133935,VP133953,VP133978,VP133991,VP133996,VP133998,VP134142,VP134149,VP134151,VP134259,VP134260,VP134261,VP134263,VP134275,VP134276,VP134277,VP134305,VP134306,VP134307,VP134316,VP134317,VP134318,VP134319,VP134320,VP134321,

Chemical ID :

V13391,V13450,V13583,V13584,V13706,V13822,V13920,V14127,V14180,V14290,V14427,V14432,V14435,V14503,V14504,V14525,V14526,V14580,V14613,V14620,V14624,V14626,V14636,V14637,V14638,V14639,V14668,V14671,V14673,V14675,V14711,V14717,V14718,V14721,V14749,V14750,V14793,V14811,V14812,V14843,V14885,V14921,V14929,V14944,V14945,V14946,V14947,V14949,V14950,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>
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>
466	624 Internal Standard and Surrogate Mix, 150PPM	VP133251	03/12/2025	07/02/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								03/21/2025

FROM 0.15000ml of V14580 + 0.15000ml of V14885 + 24.75000ml of V14624 = Final Quantity: 25.000 ml



VOC STANDARD PREPARATION LOG

[illegible]

<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>
245	8260 Calibration Working STD Mix-First source, 20PPM	VP133889	05/12/2025	06/22/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda 05/14/2025
<u>FROM</u> 17.50000ml of V14921 + 2.50000ml of VP133887 = Final Quantity: 20.000 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>
247	8260 Internal Standard, 250PPM	VP133935	05/16/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V14290 + 24.75000ml of V14921 = 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>
218	BFB, 25PPM	VP133953	05/19/2025	11/09/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/21/2025

FROM 0.25000ml of V13391 + 24.75000ml of V14626 = 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>
259	8260 Calibration Working STD Mix-Second source, 160PPM	VP133978	05/15/2025	06/30/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/27/2025

FROM 0.16000ml of V13450 + 0.80000ml of V13822 + 0.80000ml of V14127 + 0.80000ml of V14180 + 0.80000ml of V14427 + 0.80000ml of V14793 + 1.60000ml of V13920 + 4.24000ml of V14620 = Final Quantity: 10.000 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	VP133991	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 05/24/2025

FROM 1.00000ml of V14944 + 1.00000ml of V14945 + 1.00000ml of V14946 + 1.00000ml of V14947 + 21.00000ml of V14620 = 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>
180	8260 Working STD (Acrolein)-First source, 100PPM	VP133996	05/22/2025	06/19/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/24/2025

FROM 17.50000ml of V14620 + 2.50000ml of VP133991 = Final Quantity: 20.000 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>
263	8260 Working STD (Acrolein)-Second source, 800PPM	VP133998	05/22/2025	06/17/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								05/24/2025

FROM 0.60000ml of V14950 + 1.00000ml of V14949 + 8.40000ml of V14620 = Final Quantity: 10.000 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	VP134142	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u> 1.00000ml of V14668 + 1.00000ml of V14671 + 1.00000ml of V14673 + 1.00000ml of V14675 + 16.00000ml of V14929 = Final Quantity: 20.000 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>
1810	8260 Working Std(2-CVE)-800ppm	VP134149	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Mahesh Dadoda 06/10/2025
<u>FROM</u> 1.00000ml of V14636 + 1.00000ml of V14637 + 1.00000ml of V14638 + 1.00000ml of V14639 + 46.00000ml of V14929 = 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>
1812	8260 Working Std(2-CVE)-100ppm	VP134151	06/06/2025	12/06/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/10/2025

FROM 0.25000ml of V14639 + 24.75000ml of V14929 = 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	VP134259	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
								06/12/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = Final Quantity: 40.000 ml

VOC STANDARD PREPARATION LOG

[illegible]

<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>
645	20 PPB CCC, 624	VP134261	06/11/2025	06/12/2025	John Carlone	None	None	Mahesh Dadoda 06/12/2025
<u>FROM</u>	39.97000ml of W3112 + 0.00500ml of VP133887 + 0.00500ml of VP133991 + 0.00500ml of VP134149 + 0.00800ml of VP133251 = 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>
1817	8260 Working Std(2-CVE)-SS, 800ppm	VP134263	06/11/2025	11/12/2025	Semsettin Yesilyurt	None	None	Maresh Dadoda
								06/12/2025

FROM 0.60000ml of V13584 + 1.00000ml of V13583 + 18.40000ml of V14921 = Final Quantity: 20.000 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	VP134275	06/11/2025	06/12/2025	John Carlone	None	None	Maresh Dadoda
								06/12/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = 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	VP134276	06/11/2025	06/12/2025	John Carlone	None	None	Mahesh Dadoda 06/12/2025
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134277	06/11/2025	06/12/2025	John Carlone	None	None	Mahesh Dadoda 06/12/2025
<u>FROM</u>	39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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>
589	BFB TUNE CHECK	VP134305	06/12/2025	06/13/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.98400ml of W3112 + 0.01600ml of VP133953 = 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	VP134306	06/12/2025	06/13/2025	John Carlone	None	None	Amit Patel
								06/13/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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	VP134307	06/12/2025	06/13/2025	John Carlone	None	None	Amit Patel 06/13/2025

FROM 39.94450ml of W3112 + 0.00500ml of VP133174 + 0.00500ml of VP134142 + 0.00800ml of VP133935 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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>
637	5 PPB ICC, 624	VP134316	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel 06/13/2025

FROM 39.96200ml of W3112 + 0.00800ml of VP133251 + 0.01000ml of VP133889 + 0.01000ml of VP133996 + 0.01000ml of VP134151 = 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>
639	20 PPB ICC, 624	VP134317	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel 06/13/2025
<u>FROM</u>	39.97000ml of W3112 + 0.00500ml of VP133887 + 0.00500ml of VP133991 + 0.00500ml of VP134149 + 0.00800ml of VP133251 = 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>
640	50 PPB ICC, 624	VP134318	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel 06/13/2025
<u>FROM</u> 39.95450ml of W3112 + 0.00800ml of VP133251 + 0.01250ml of VP133887 + 0.01250ml of VP133991 + 0.01250ml of VP134149 = 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>
642	100 PPB ICC, 624	VP134319	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel 06/13/2025
<u>FROM</u>	39.91700ml of W3112 + 0.00800ml of VP133251 + 0.02500ml of VP133887 + 0.02500ml of VP133991 + 0.02500ml of VP134149 = 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>
643	150 PPB ICC, 624	VP134320	06/10/2025	06/11/2025	John Carlone	None	None	Amit Patel 06/13/2025
<u>FROM</u>	39.87950ml of W3112 + 0.00800ml of VP133251 + 0.03750ml of VP133887 + 0.03750ml of VP133991 + 0.03750ml of VP134149 = Final Quantity: 40.000 ml							

VOC STANDARD PREPARATION LOG

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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	30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM	A0191703	11/15/2025	05/15/2025 / SAM	01/23/2023 / SAM	V13450

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13583

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	95318 / 2-Chloroethyl Vinyl Ether (Min = 5)	111722	11/17/2025	06/11/2025 / SAM	01/30/2023 / SAM	V13584

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

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	A0197644	09/30/2025	03/31/2025 / SAM	05/31/2023 / SAM	V13822

CHEMICAL RECEIPT LOG BOOK

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	A0193887	11/15/2025	05/15/2025 / SAM	07/24/2023 / SAM	V13920

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)	011624	09/30/2025	03/31/2025 / SAM	01/17/2024 / SAM	V14127

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)	021524	09/30/2025	03/31/2025 / SAM	02/20/2024 / SAM	V14180

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	12/12/2025	12/12/2024 / SAM	04/15/2024 / SAM	V14290

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	A0205013	06/30/2025	05/15/2025 / SAM	08/15/2024 / SAM	V14427

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	09/30/2025	05/12/2025 / SAM	08/15/2024 / SAM	V14432

CHEMICAL RECEIPT LOG BOOK

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	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14503

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	11/12/2025	05/12/2025 / SAM	09/17/2024 / SAM	V14504

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	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14525

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	11/12/2025	05/12/2025 / SAM	09/18/2024 / SAM	V14526

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555584 / Custom Standard, CLP VOA SurrogateStd [CS 5179-4]	A0219012	01/02/2026	01/02/2025 / SAM	11/18/2024 / SAM	V14580

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	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	10/25/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14620

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)	23I0762004	07/13/2025	01/13/2025 / SAM	11/26/2024 / SAM	V14624

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)	23I0762004	11/09/2025	05/09/2025 / SAM	11/26/2024 / SAM	V14626

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14636

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14637

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	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14638

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	/ 2-Chloroethyl vinyl ether	120524	12/06/2025	06/06/2025 / SAM	12/06/2024 / SAM	V14639

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14668

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14671

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14673

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	A0214960	12/06/2025	06/06/2025 / SAM	12/09/2024 / SAM	V14675

CHEMICAL RECEIPT LOG BOOK

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14711

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14717

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14718

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14721

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	11/13/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14749

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	11/12/2025	05/12/2025 / SAM	12/17/2024 / SAM	V14750

CHEMICAL RECEIPT LOG BOOK

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	A0220563	06/30/2026	05/15/2025 / SAM	01/08/2025 / SAM	V14793

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	11/12/2025	05/12/2025 / SAM	01/08/2025 / SAM	V14811

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	06/30/2026	05/12/2025 / SAM	01/08/2025 / SAM	V14812

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	11/12/2025	05/12/2025 / SAM	01/21/2025 / SAM	V14843

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555583 / Custom Standard, CLP VOA Internal Std [CS 5179-3]	A0223136	03/12/2026	03/12/2025 / SAM	03/12/2025 / SAM	V14885

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)	24G0262002	11/12/2025	05/12/2025 / SAM	05/09/2025 / SAM	V14921

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)	24G0262002	12/06/2025	06/06/2025 / SAM	05/09/2025 / SAM	V14929

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14944

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14945

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14946

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051925	06/19/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14947

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	91980 / Acrolin Std (Min = 5)	051725	06/17/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14949

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)	051725	06/17/2025	05/22/2025 / SAM	05/21/2025 / SAM	V14950

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 / Iwona	07/03/2024 / Iwona	W3112

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
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	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
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

Ken Koehnlein
Sr. Manager, Quality Assurance

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis



Material No.: 9077-02
Batch No.: 23I0762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

Certificate of Analysis

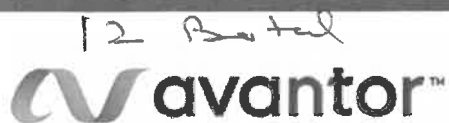
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.5 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.01
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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

Ken Koehnlein
Sr. Manager, Quality Assurance

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

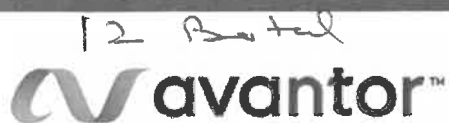
Test	Specification	Result
Assay (CH ₃ OH) (by GC, corrected for water)	≥ 99.9 %	100.0 %
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid (μeq/g)	≤ 0.3	0.2
Titration Base (μeq/g)	≤ 0.10	0.03
Water (by KF, coulometric)	≤ 0.08 %	< 0.01 %
Volatile Organic Trace Analysis – Below EPA 8260B CRQL	Conforms	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



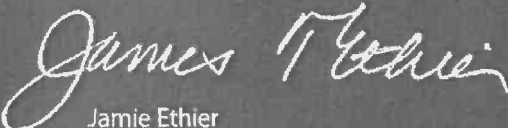
Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

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



CERTIFIED WEIGHT REPORT

Part Number: **95319**
Lot Number: **011624**
Description: **Revised Additions Mix**

Solvent(s): **Lot#**
Methanol EH471-US

Expiration Date: **011627**

Recommended Storage: **Refrigerate (4 °C)**

Nominal Concentration (µg/mL): **Varied**

NIST Test ID#: **6UTB**

5E-05 Balance Uncertainty

0.021 Flask Uncertainty

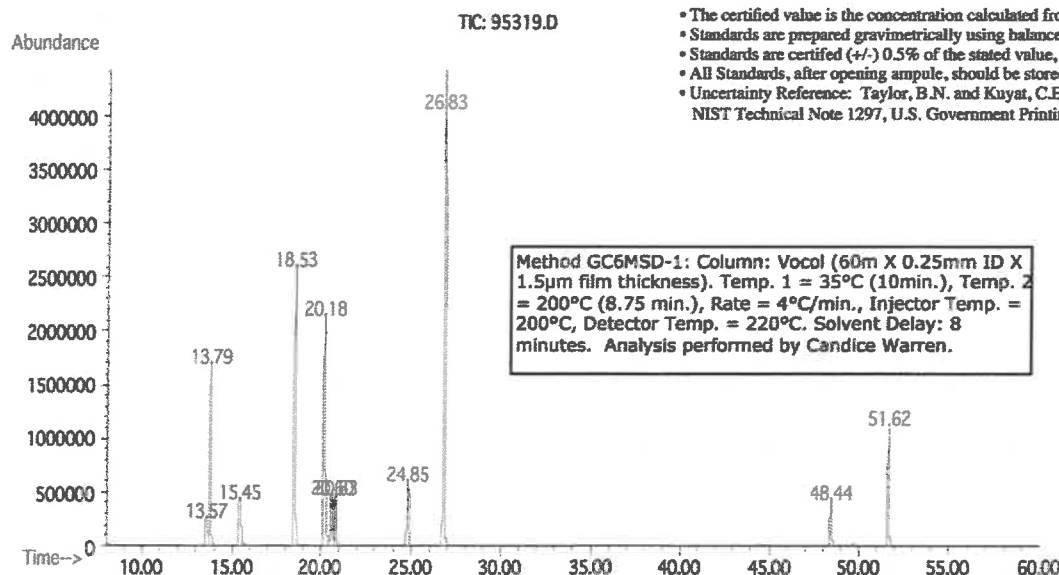
Weight(s) shown below were combined and diluted to (mL): **100.0**

		011624
Formulated By:	Prashant Chauhan	DATE
		011624
Reviewed By:	Pedro L. Rentas	DATE

Expanded SDS Information
(Solvent Safety Info. On Attached pg.)

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)	CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg

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)	CAS#	OSHA PEL (TWA)	LD50
1. Acrylonitrile	7	4718CK	10000	99	0.2	1.01035	1.01080	10004.4	40.6	107-13-1	N/A	ori-rat 78 mg/kg
2. 1-Chlorobutane	1072	MKCM5711	2000	99.99	0.2	0.20007	0.20035	2002.8	8.1	109-69-3	N/A	ori-rat 2670mg/kg
3. Cyclohexane	1023	28930	2000	99	0.2	0.20207	0.20222	2001.5	8.2	110-82-7	300 ppm (1050mg/m3/8H)	ori-rat 12705mg/kg
4. Di-isopropyl ether (DIPE)	987	00412MX	2000	99	0.2	0.20207	0.20227	2002.0	8.2	108-20-3	500 ppm (2100mg/m3/8H)	ori-rat 8470mg/kg
5. 1,4-Dioxane	373	03853KE	40000	99	0.2	4.04142	4.04213	40007.0	162.5	123-91-1	25 ppm (90mg/m3/8H)(skin)	ori-mus 5700mg/kg
6. Hexachloroethane	199	12604HBV	2000	99	0.2	0.20207	0.20221	2001.4	8.2	67-72-1	1 ppm (10mg/m3/8H)(skin)	ori-gpg 4970mg/kg
7. Methylcyclohexane	1627	SHBG0199V	2000	99	0.2	0.20207	0.20230	2002.3	8.2	108-87-2	N/A	ori-mus 2250mg/kg
8. Methyl tert-butyl ether (MTBE)	209	21880	2000	99	0.2	0.20207	0.20227	2002.0	8.2	1634-04-4	N/A	ori-rat 4g/kg
9. Propionitrile	349	1395468	20000	99	0.2	2.02071	2.02150	20007.8	81.3	107-12-0	N/A	ori-rat 39mg/kg
10. Tetrahydrofuran	380	SHBH8330	10000	99.9	0.2	1.00125	1.00200	10007.5	40.3	109-99-9	20 ppm (590mg/m3/8H)	ori-rat 1650mg/kg
11. 1,2,3,4-Tetramethylbenzene	491	AP01	2000	93	0.2	0.21511	0.21522	2001.0	8.7	488-23-3	N/A	ori-rat 6408mg/kg



- 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).

Name	MSD RT (min.)
Methyl tert-butyl ether (MTBE)	13.56
Acrylonitrile	13.79
Di-isopropyl ether	15.44
Propionitrile	18.53
Tetrahydrofuran	20.17
Cyclohexane	20.58
1-Chlorobutane	20.83
Methylcyclohexane	24.84
1,4-Dioxane	26.84
Hexachloroethane	48.44
1,2,3,4-Tetramethylbenzene	51.62



CERTIFIED WEIGHT REPORT

Part Number: **95317**
Lot Number: **021524**
Description: **Universal VOA Megamix**
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: BUTB

Solvent(s): **Methanol**
Lot#: **EG359-USQ12**

		021524
Formulated By:	Mario Luis	DATE
		021524
Reviewed By:	Pedro L. Rentes	DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

														SDS Information		
														(Solvent Safety Info. On Attached pg.)		
Compound	(RM#)	Lot	Dr.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	CAS#	OSHA PEL (TWA)	LD50
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	(+/-) (µg/mL)			
1. Acetonitrile	(0324)	021644	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20022	2001.5	8.1	75-05-8	40 ppm (70mg/m3/8h)	or-rat 2450mg/kg
2. Allyl chloride (3-Chloropropene)	(0325)	102398	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20222	2001.5	8.2	107-05-1	1 ppm (3mg/m3/8h)	or-rat 700mg/kg
3. Carbon disulfide	(0060)	MKCR8581	NA	NA	NA	2000	99.99	0.2	NA	0.20007	0.20020	2001.3	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	0.21058	0.21060	2000.2	8.5	1478-11-5	N/A	N/A
5. trans-1,4-Dichloro-2-butene	(0466)	MKBP8041V	NA	NA	NA	2000	96.5	0.2	NA	0.20731	0.20734	2000.3	8.4	110-57-5	N/A	N/A
6. Diethyl ether	(0153)	JK18CASA000K	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	60-29-7	N/A	N/A
7. Ethyl methacrylate	(0381)	06186PX	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20231	2002.4	8.2	97-83-2	N/A	or-rat 14800mg/kg
8. Iodomethane	(0489)	SHBF8716V	NA	NA	NA	2000	99.5	0.2	NA	0.20106	0.20118	2001.2	8.1	74-88-4	5 ppm (28mg/m3/8h) (skin)	or-rat 76mg/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 2450mg/kg
10. Methacrylonitrile	(0442)	00427ET	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20209	2000.2	8.2	128-98-7	1 ppm (3mg/m3/8h) (skin)	or-rat 120mg/kg
11. Methyl acrylate	(1075)	SHBK0679	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20042	2001.7	8.1	96-33-3	10 ppm (35mg/m3/8h) (skin)	or-rat 277mg/kg
12. Methyl methacrylate	(0404)	MKBW5137V	NA	NA	NA	2000	99.9	0.2	NA	0.20025	0.20030	2000.5	8.1	80-62-6	100 ppm (410mg/m3/8h)	or-rat 787mg/kg
13. Nitrobenzene	(0228)	01213TV	NA	NA	NA	2000	99	0.2	NA	0.20207	0.20230	2002.3	8.2	98-95-3	1 ppm (5mg/m3/8h) (skin)	or-rat 780mg/kg
14. 2-Nitropropane	(0461)	14002JX	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20670	2001.0	8.3	79-46-9	10 ppm (35mg/m3/8h)	or-rat 720mg/kg
15. Pentachloroethane	(0450)	HGA01	NA	NA	NA	2000	98	0.2	NA	0.20413	0.20415	2000.2	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	0.20210	2000.3	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 916mg/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-Dichloroethane	35171	101623	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	156-60-2	N/A	N/A
20. trans-1,2-Dichloroethane	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 800mg/kg
22. 1,1-Dichloroethane	32251	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.7	20.4	75-36-4	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 930mg/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 (12.8mg/m3/8h)	or-rat 2350mg/kg
25. Chloroform	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.9	20.5	67-66-3	50 ppm (240mg/m3) (CL)	or-rat 900mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-06-3	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	20.5	75-34-3	100 ppm	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	20.4	594-20-7	N/A	N/A
29. Tetrachloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2019.6	20.6	127-18-4	25 ppm (170mg/m3/8h) (final)	or-rat 262mg/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	96-12-8	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-Dichloroethane	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-Dichloropropane	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	ure-mus 3600mg/kg
36. 1,1-Dichloropropane	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.1	29.7	563-56-6	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	40017.8	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	630-20-6	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 836mg/kg
43. Trichloroethane	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 2400mg/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	40005.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4694mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-1	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	104-51-8	N/A	N/A
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8h)	or-rat 2000mg/kg
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-8	N/A	or-rat 4750mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8h)	or-rat 490mg/kg
51. Styrene	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
52. Toluene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-61-6	N/A	ipr-mus 1300mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 750mg/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	95-63-6	N/A	or-rat 5g/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	108-67-8	N/A	or-rat 5000mg/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.6	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8h)	or-rat 5g/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.6	22.9	98-06-6	N/A	N/A
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.6	22.9	135-98-6	N/A	or-rat 2240mg/kg
60. Chlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8h)	or-rat 2290mg/kg
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40000.3	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-5	50 ppm (250mg/m3/8h)	or-rat 3900mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA					

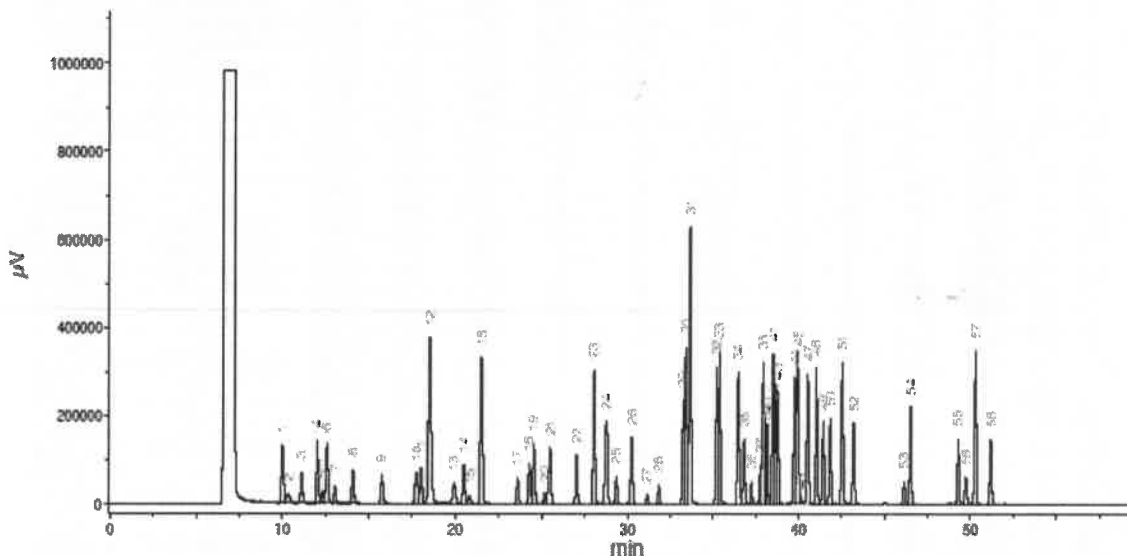


Run 17, "P95317 L021524 [2000µg/mL in MeOH]"

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

Comments

GC5-M1 Analysis by Candice Warren
Column ID SPB-Voccol 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	10.33
3	1,1-Dichloroethene	11.10
4	Acetonitrile	12.00
5	Iodomethane	12.31
6	Allyl chloride	12.56
7	Carbon disulfide/Methylene chloride	13.04
8	trans-1,2-Dichloroethene	14.07
9	1,1-Dichloroethane	15.34
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methacrylonitrile/Methyl acrylate/Chloroform	18.49
13	Isobutanol/1,1,1-Trichloroethane	19.91
14	1,1-Dichloropropane	20.46
15	Carbon tetrachloride	20.79
16	Benzene/1,2-Dichloroethane	21.48
17	Trichloroethene	22.58
18	1,2-Dichloropropane	24.26
19	Methyl methacrylate	24.52
20	Bromodichloromethane	25.13
21	Dibromomethane/2-Nitropropane	25.46
22	cis-1,2-Dichloropropane	27.02
23	Toluene	28.05
24	Ethyl methacrylate/trans-1,3-Dichloropropane	28.73
25	1,1,2-Trichloroethane	29.34
26	Tetrachloroethene/1,3-Dichloropropane	30.24
27	Dibromochloromethane	31.18
28	1,2-Dibromomethane	31.84
29	Chlorobenzene	33.39
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.40
31	m-Xylene/p-Xylene	33.66
32	o-Xylene	33.72
33	Styrene	35.39
34	Isopropylbenzene/Bromoform	36.48
35	cis-1,4-Dichloro-2-butene	36.80
36	1,1,2,2-Tetrachloroethane	37.23
37	1,2,3-Trichloropropane	37.77
38	n-Propylbenzene	37.92
39	trans-1,4-Dichloro-2-butene	38.05
40	Bromobenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	2-Chlorotoluene	38.62
43	4-Chlorotoluene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.32
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	41.42
50	1,4-Dichlorobenzene	41.83
51	n-Butylbenzene	42.52
52	1,2-Dichlorobenzene	43.10
53	1,2-Dibromo-3-chloropropane	46.12
54	Nitrobenzene	46.48
55	1,2,4-Trichlorobenzene	49.26
56	Hexachlorobutadiene	49.72
57	Naphthalene	50.26
58	1,2,3-Trichlorobenzene	51.16



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-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

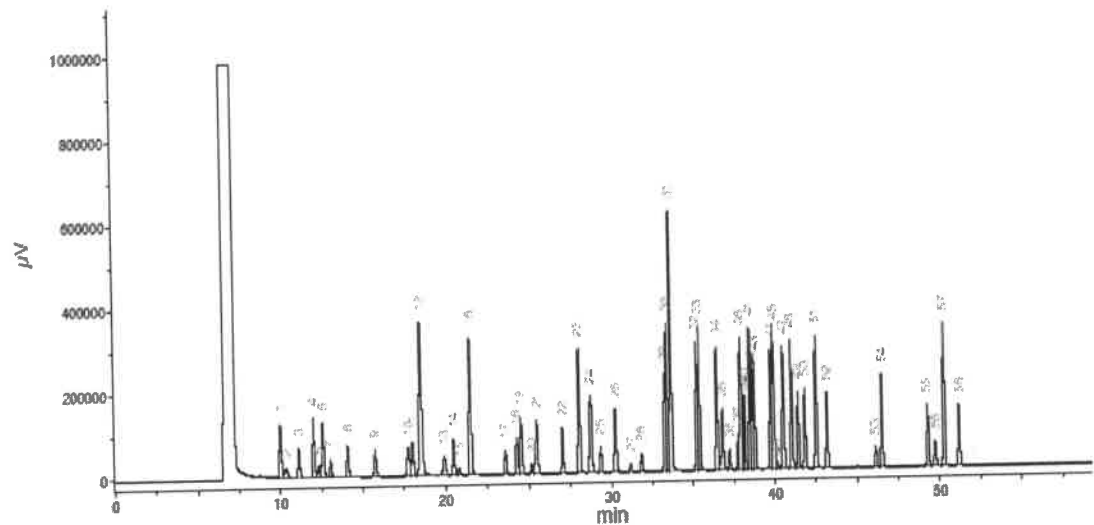
Compound	(K049)	Lot	DR	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc.(µg/mL)	Conc (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty (+/-) µg/mL	CASE	OSHA PEL (TWA)	LD50
1. Acetonitrile	(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 2450mg/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	NA	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	NA	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	NA	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	NA	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 76mg/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 2460mg/kg
10. Methacrylonitrile	(0472)	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	(1075)	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)	14002JK	NA	NA	NA	2000	97.3	0.2	NA	0.20560	0.20577	2001.6	8.3	78-46-9	10 ppm (30mg/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	NA	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	76-13-1	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	NA	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	NA	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	158-59-2	NA	N/A
20. trans-1,2-Dichloroethene	35171	101623	0.05	5.00	40003.2	2000	NA	NA	0.017	NA	NA	1999.6	23.0	158-60-5	NA	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 1235mg/kg
22. 1,1-Dichloroethane	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	78-25-2	0.5 ppm (5mg/m3) (skin)	or-rat 933mg/kg
23. Bromoform	95321	020724	0.10	10.00	20003.2	2000	NA	NA	0.042	NA	NA	1999.8	20.4	58-23-5	2 ppm (12.6mg/m3/8H)	or-rat 2350mg/kg
24. Carbon tetrachloride	95321	020724	0.10	10.00	20024.0	2000	NA	NA	0.042	NA	NA	2001.3	20.5	67-68-3	60 ppm (240mg/m3) (CL)	or-rat 908mg/kg
25. Chloroform	95321	020724	0.10	10.00	20002.9	2000	NA	NA	0.042	NA	NA	1999.8	20.5	74-95-3	100 ppm	or-rat 725mg/kg
26. Dibromomethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	594-20-7	NA	N/A
27. 1,1-Dichloroethane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H)(final)	or-rat 2629mg/kg
28. 2,2-Dichloropropane	95321	020724	0.10	10.00	20003.4	2000	NA	NA	0.042	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	2000.3	22.9	96-12-8	0.001 ppm	or-rat 170mg/kg
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2000.7	22.9	108-93-4	20 ppm (8H)	or-rat 108mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2002.0	22.9	78-87-5	75 ppm (350mg/m3/8H)	or-rat 1847mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	1999.8	22.9	142-28-9	NA	or-rat 3600mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.1	28.7	563-58-6	NA	N/A
35. 1,3-Dichloropropane	35161	112322	0.05	5.00	40005.9	2000	NA	NA	0.017	NA	NA	2000.0	23.0	10081-01-5	NA	N/A
36. 1,1-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.4	23.0	10081-02-6	NA	N/A
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40010.0	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
38. trans-1,3-Dichloropropene	35161	112322	0.05	5.00	40017.6	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	NA	or-rat 670mg/kg
39. Hexachloro-1,3-butadiene	35161	112322	0.05	5.00	40021.9	2000	NA	NA	0.017	NA	NA	1999.9	22.9	79-34-5	5 ppm (35mg/m3/8H)(skin)	or-rat 800mg/kg
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	2000	NA	NA	0.017	NA	NA	1999.8	23.0	79-00-5	10 ppm (45mg/m3/8H)(skin)	or-rat 936mg/kg
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.9	22.9	79-01-6	50 ppm (270mg/m3/8H)	or-mus 2402mg/kg
42. 1,1,2-Trichloroethane	35161	112322	0.05	5.00	40006.6	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
43. Trichloroethene	35161	112322	0.05	5.00	40029.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-88-1	1 ppm	or-rat 4894mg/kg
44. 1,2,3-Trichloropropane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	1999.8	22.9	104-51-8	NA	or-rat 2699mg/kg
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	NA	or-rat 4750mg/kg
47. n-Butyl benzene	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
48. Ethyl benzene	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
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40006.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	87-81-6	NA	or-rat 1390mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
52. Toluene	35162	050823	0.05	5.00	40008.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	95-63-6	NA	or-rat 5g/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	108-87-8	NA	or-rat 5000mg/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	NA	or-rat 5000mg/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	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/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	96-06-6	NA	N/A
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	135-98-8	NA	N/A
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2240mg/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.5	22.9	95-49-8	50 ppm (250mg/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	106-43-4	NA	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	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
62. 4-Chlorotoluene	35163	101923	0.05	5.00	40003.3	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	NA	or-rat 1062mg/kg
63. 1,2-Dichlorobenzene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	106-46-7	75 ppm (450mg/m3/8H)	or-rat 900mg/kg
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	541-73-1	50 ppm (245mg/m3/8H)	or-rat 1400mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05													



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-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinylbenzene/Methyl acrylate/Chloroform	18.49
13	Isobutene/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	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentene	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloropropane	29.34
25	1,1,2-Trichloroethane	30.34
26	Tetrachloroethane/1,2-Dichloropropane	31.16
27	Dibromochloromethane	31.84
28	1,2-Dibromomethane	33.06
29	Chlorobenzene	33.40
30	Ethylbenzene/1,1,1,2-Tetrachloroethane	33.85
31	m-Xylene/p-Xylene	35.33
32	o-Xylene	35.70
33	Styrene	35.70
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	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-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	49.26
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)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
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-USQ12Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Balance Uncertainty
Flask Uncertainty

Formulated By:	Prashant Chauhan	021624
Reviewed By:	Pedro L. Renteria	021624
DATE		

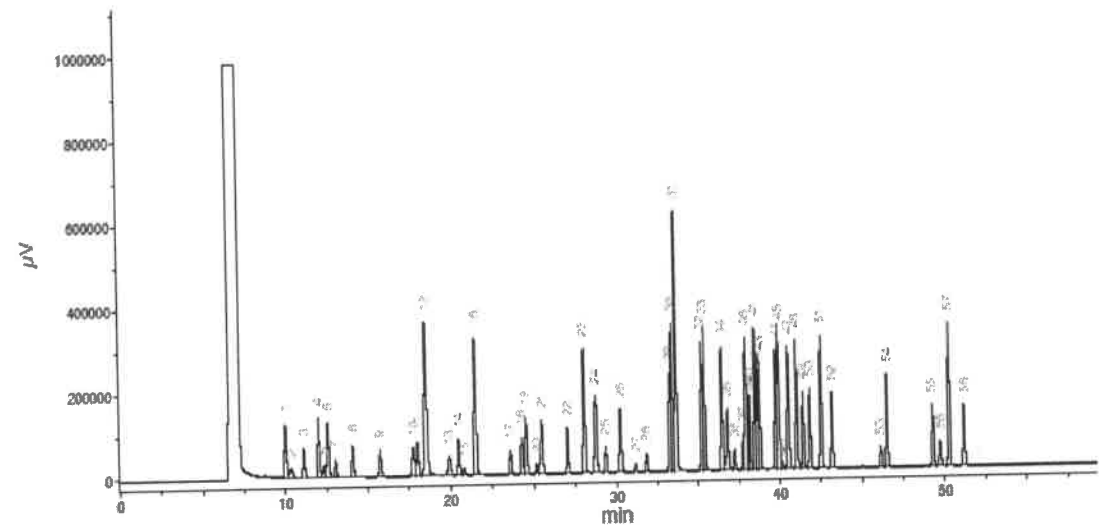
Compound	(K049)	Lot	Dir.	Initial	Initial	Nominal	Purity	Purity	Uncertainty	Target	Actual	Actual	Expanded	SDS Information		
	Part Number	Number	Factor	Vol. (mL)	Conc. (µg/mL)	Conc. (µg/mL)	(%)	Uncertainty	Pipette (mL)	Weight(g)	Weight(g)	Conc (µg/mL)	Uncertainty	(Solvent Safety Info. On Attached pg.)	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 127mg/kg
11. Methyl acrylate	(1075)	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)	HG002JK	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)	14A001	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 435g/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	40003.2	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	32261	102023	0.10	10.00	20001.6	2000	NA	NA	0.042	NA	NA	1999.8	20.5	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	20024.0	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	20.5	74-95-3	N/A	or-rat 108mg/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	or-rat 725mg/kg
29. Trichloroethene	95321	020724	0.10	10.00	20201.1	2000	NA	NA	0.042	NA	NA	1999.8	20.4	594-20-7	N/A	N/A
30. 1,1,1-Trichloroethane	95321	020724	0.10	10.00	20003.0	2000	NA	NA	0.042	NA	NA	2019.8	20.8	127-18-4	25 ppm (170mg/m3/8H) (final)	or-rat 2629mg/kg
31. 1,2-Dibromo-3-chloropropane	35161	112322	0.05	5.00	40018.5	2000	NA	NA	0.017	NA	NA	1999.8	20.5	71-55-6	350 ppm (1900mg/m3/8H)	or-rat 10300mg/kg
32. 1,2-Dibromoethane	35161	112322	0.05	5.00	40024.8	2000	NA	NA	0.017	NA	NA	2000.3	22.9	86-12-8	0.001 ppm	or-rat 170mg/kg
33. 1,2-Dichloroethane	35161	112322	0.05	5.00	40018.0	2000	NA	NA	0.017	NA	NA	2000.7	22.9	106-93-4	20 ppm (8H)	or-rat 108mg/kg
34. 1,2-Dichloropropane	35161	112322	0.05	5.00	40051.0	2000	NA	NA	0.017	NA	NA	2000.4	22.9	107-06-2	50 ppm (8H)	or-rat 670mg/kg
35. 1,3-Dichloropropane	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 1947mg/kg
36. 1,1-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
37. cis-1,3-Dichloropropene	35161	112322	0.05	5.00	40012.1	2000	NA	NA	0.017	NA	NA	2000.0	28.7	563-58-6	N/A	N/A
38. trans-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
39. Hexachloro-1,3-butadiene	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
40. 1,1,1,2-Tetrachloroethane	35161	112322	0.05	5.00	40011.9	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
41. 1,1,2,2-Tetrachloroethane	35161	112322	0.05	5.00	40007.5	2000	NA	NA	0.017	NA	NA	2000.1	22.9	830-20-6	N/A	or-rat 670mg/kg
42. 1,1,2-Trichloroethane	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
43. Trichloroethene	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
44. 1,2,3-Trichloropropane	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
45. Benzene	35162	050823	0.05	5.00	40006.0	2000	NA	NA	0.017	NA	NA	1999.9	22.9	96-18-4	10 ppm (60mg/m3/8H)	or-rat 149.8mg/kg
46. Bromobenzene	35162	050823	0.05	5.00	40006.9	2000	NA	NA	0.017	NA	NA	1999.7	22.9	71-43-2	1 ppm	or-rat 4894mg/kg
47. n-Butyl benzene	35162	050823	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-96-1	N/A	or-rat 2699mg/kg
48. Ethyl benzene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	104-51-8	N/A	N/A
49. p-Isopropyl toluene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	100-41-4	100 ppm (435mg/m3/8H)	or-rat >2000mg/kg
50. Naphthalene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	99-87-6	N/A	or-rat 4750mg/kg
51. Styrene	35162	050823	0.05	5.00	40004.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	91-20-3	10 ppm (50mg/m3/8H)	or-rat 490mg/kg
52. Toluene	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
53. 1,2,3-Trichlorobenzene	35162	050823	0.05	5.00	40003.1	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-88-3	200 ppm	or-rat 5000mg/kg
54. 1,2,4-Trichlorobenzene	35162	050823	0.05	5.00	40006.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	87-81-6	N/A	or-mus 1390mg/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	120-82-1	5 ppm (CL) (40mg/m3)	or-rat 756mg/kg
56. 1,3,5-Trimethylbenzene	35162	050823	0.05	5.00	40006.7	2000	NA	NA	0.017	NA	NA	1999.6	23.0	95-63-6	N/A	or-rat 5g/kg
57. m-Xylene	35162	050823	0.05	5.00	40005.8	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-87-8	N/A	or-rat 5000mg/kg
58. tert-Butyl benzene	35163	101923	0.05	5.00	40001.2	2000	NA	NA	0.017	NA	NA	1999.8	22.9	108-38-3	100 ppm (435mg/m3/8H)	or-rat 5g/kg
59. sec-Butyl benzene	35163	101923	0.05	5.00	40002.4	2000	NA	NA	0.017	NA	NA	1999.8	22.9	98-06-6	N/A	N/A
60. Chlorobenzene	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
61. 2-Chlorotoluene	35163	101923	0.05	5.00	40003.8	2000	NA	NA	0.017	NA	NA	1999.7	22.9	108-90-7	75 ppm (350mg/m3/8H)	or-rat 2290mg/kg
62. 4-Chlorotoluene	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
63. 1,2-Dichlorobenzene	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
64. 1,3-Dichlorobenzene	35163	101923	0.05	5.00	40001.7	2000	NA	NA	0.017	NA	NA	1999.7	22.9	95-50-1	50 ppm (300mg/m3) (CL)	or-rat 500mg/kg
65. 1,4-Dichlorobenzene	35163	101923	0.05													



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-Dichloroethene	14.07
9	1,1-Dichloroethane	15.74
10	2,2-Dichloropropane	17.74
11	cis-1,2-Dichloroethene	18.00
12	Methoxyvinyltoluene/Methyl acrylate/Chloroform	18.49
13	Isobutene/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	Trichloroethene	23.88
18	1,2-Dichloropropane	24.52
19	Methyl methacrylate	25.13
20	Bromochloropropane	25.46
21	Dibromomethane/2-Pentene	27.07
22	cis-1,2-Dichloroethene	28.03
23	Toluene	28.73
24	Ethyl methacrylate/Trans-1,2-Dichloroethene	29.34
25	1,1,2-Trichloroethane	30.34
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	35.33
32	o-Xylene	35.70
33	Styrene	35.70
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	1,3,5-Trimethylbenzene	38.14
41	1,3,5-Trimethylbenzene	38.50
42	Chlorobenzene	38.63
43	4-Chlorobenzene	38.77
44	tert-Butylbenzene	39.76
45	1,2,4-Trimethylbenzene	39.91
46	Pentachloroethane	40.17
47	sec-Butylbenzene	40.52
48	p-Isopropyltoluene	41.02
49	1,3-Dichlorobenzene	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.



Certified Reference Material CRM

Dec 09/17/24

2 vial

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>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
Reviewed By:	Pedro L. Rentas	DATE

Expiration Date: 101424

Recommended Storage: Refrigerate (4 °C)

Nominal Concentration (µg/mL): 5000

NIST Test ID#: 6UTB

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0 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

Dec 09/17/24

2 vial

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#
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

<i>Justin Dippold</i>		091424
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		091424
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	0.05175	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 WEIGHT REPORT

Part Number: **95318**
Lot Number: **111722**
Description: **2-Chloroethyl vinyl ether**

Solvent(s): **Lot#**
Methanol EB679-US

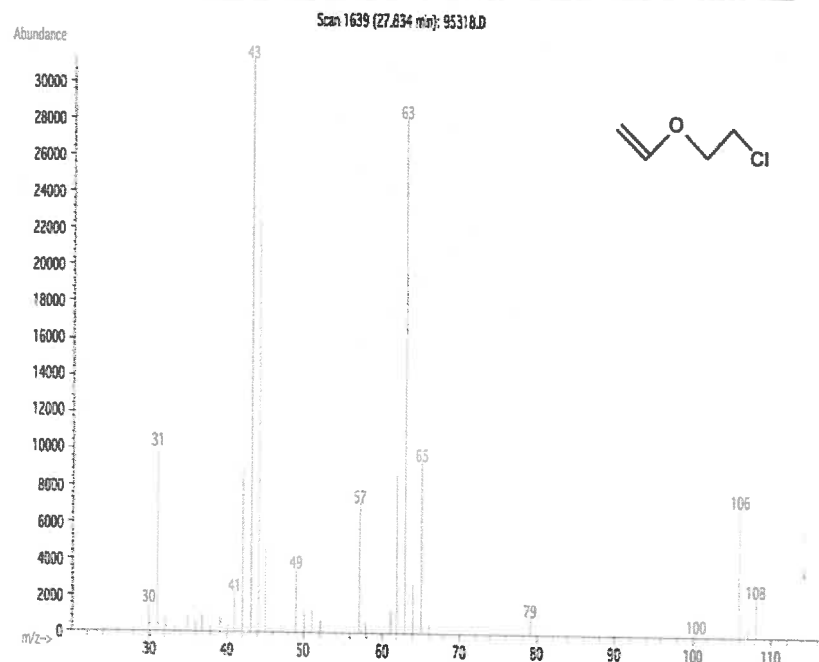
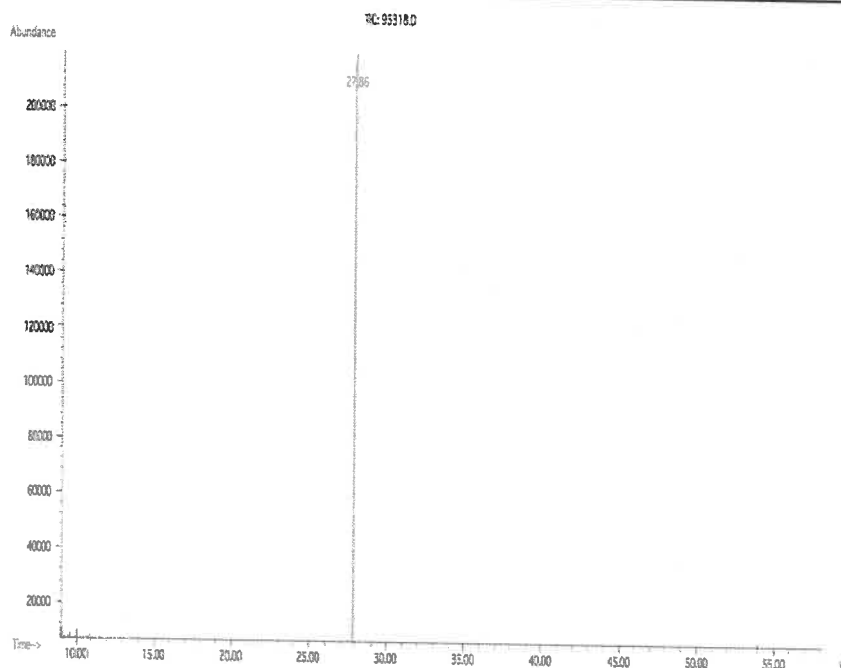
Expiration Date: **111725**
Recommended Storage: **Refrigerate (4 °C)**
Nominal Concentration (µg/mL): **10000**
NIST Test ID#: **6UTB**

Weight(s) shown below were combined and diluted to (mL): **50.0**
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
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. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	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).



CERTIFIED WEIGHT REPORT

Part Number: 95318
Lot Number: 111722
Description: 2-Chloroethyl vinyl ether

Solvent(s): Lot#
Methanol EB679-US

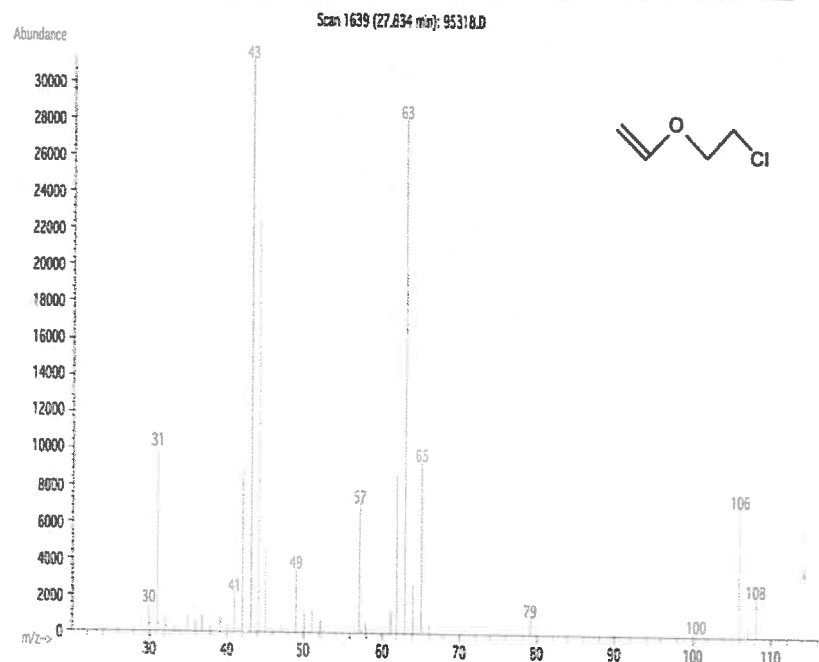
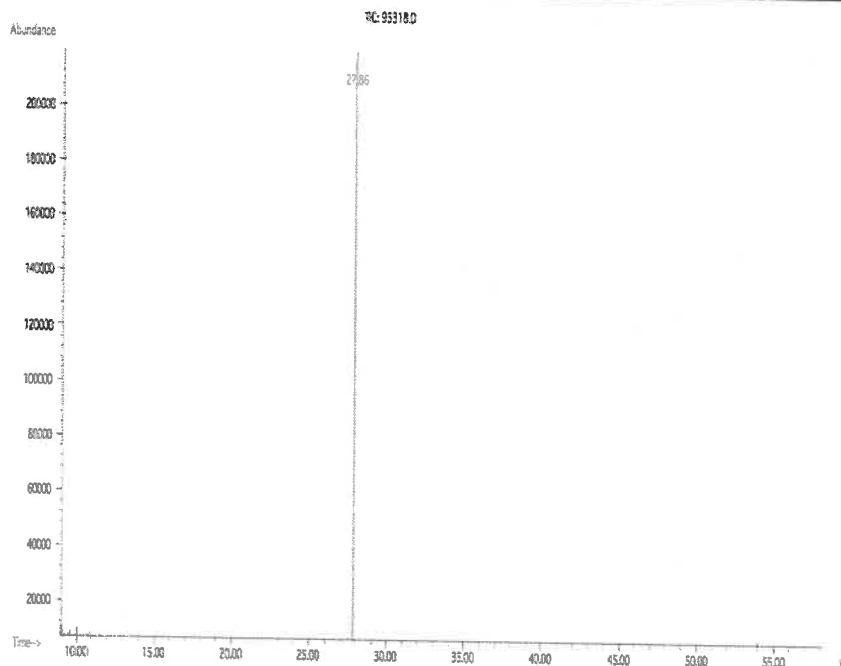
Expiration Date: 111725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 10000
NIST Test ID#: 6UTB

Weight(s) shown below were combined and diluted to (mL): 50.0
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Eli Aliaga</i>		111722
Formulated By:	Eli Aliaga	DATE
<i>Pedro L. Rentas</i>		111722
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. 2-Chloroethyl vinyl ether	74	MKCD0033	10000	99	0.2	0.50541	0.50551	10001.9	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).



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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

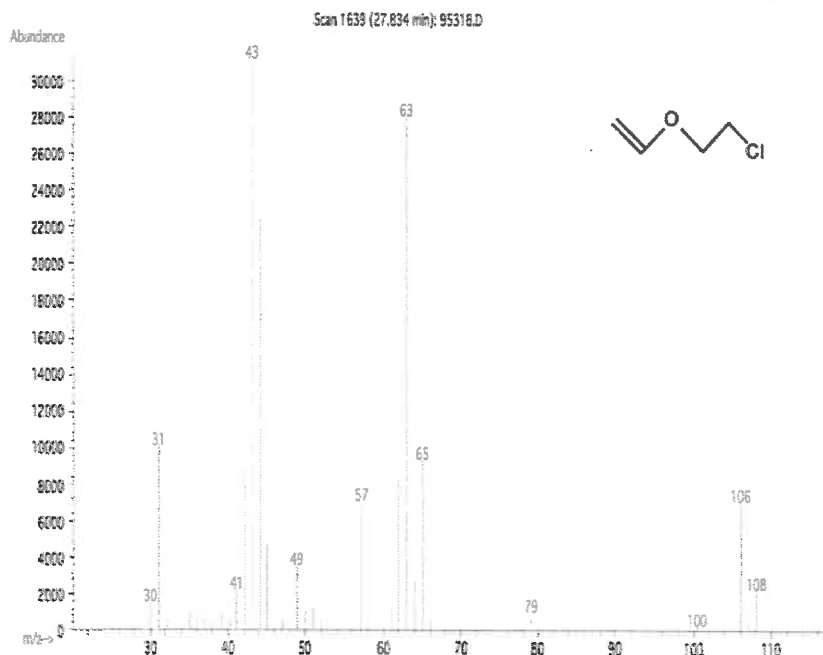
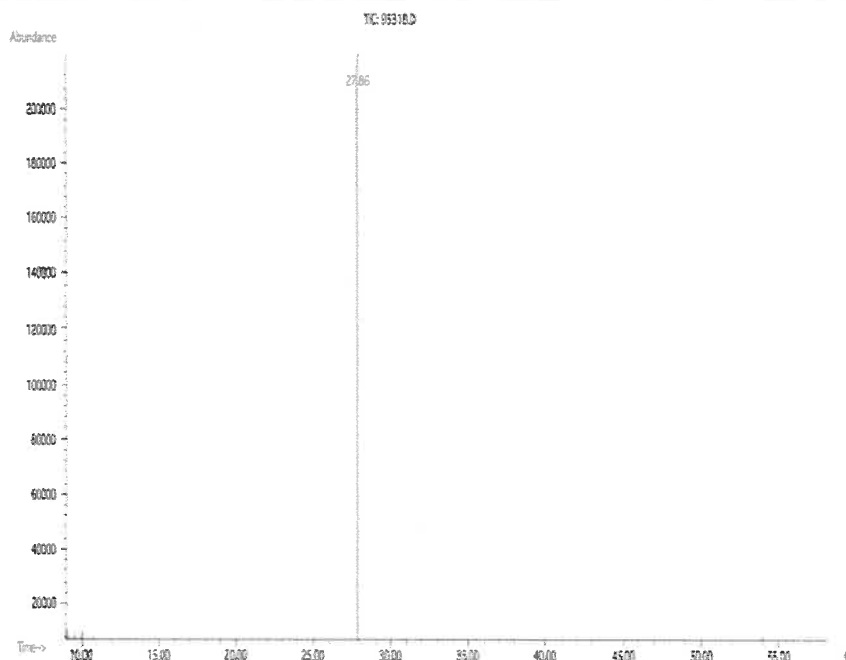
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
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. 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	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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

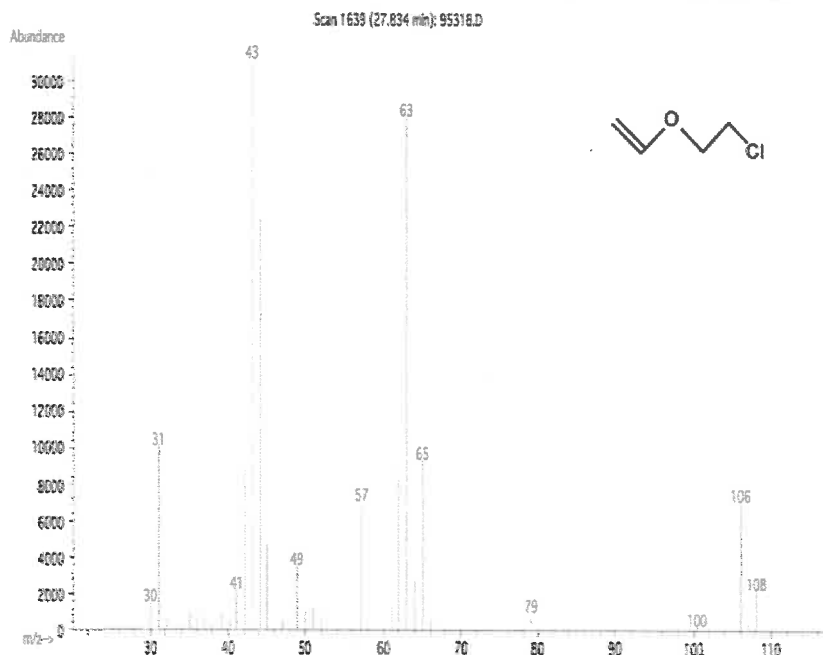
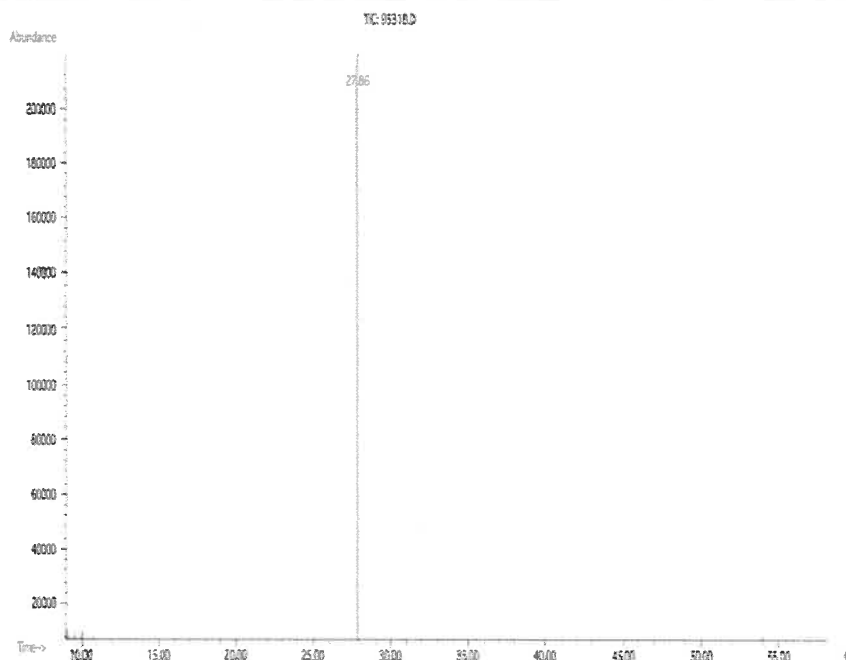
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
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. 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))	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. 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	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



ANAB ISO 17034 Accredited
AR-1539 Certificate Number
<https://absolutestandards.com>

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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

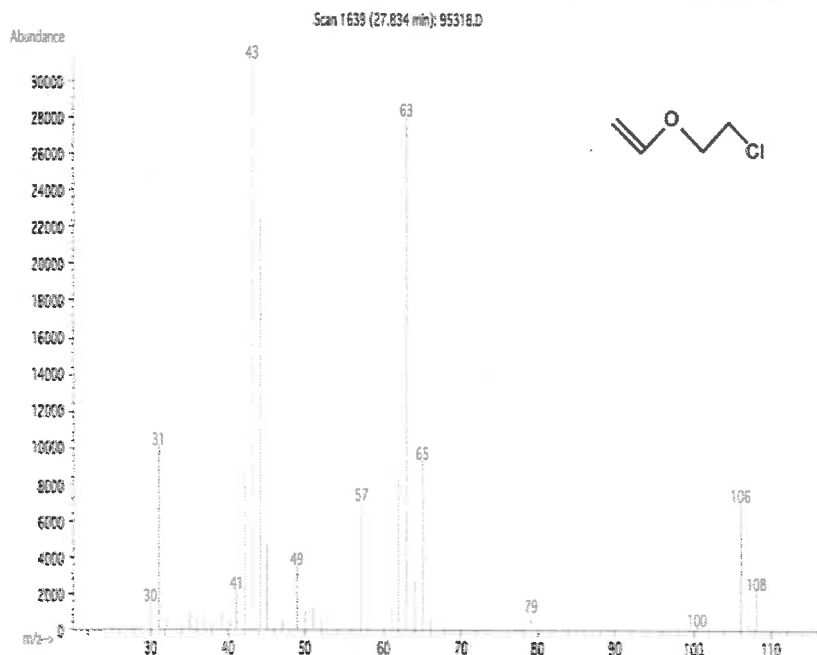
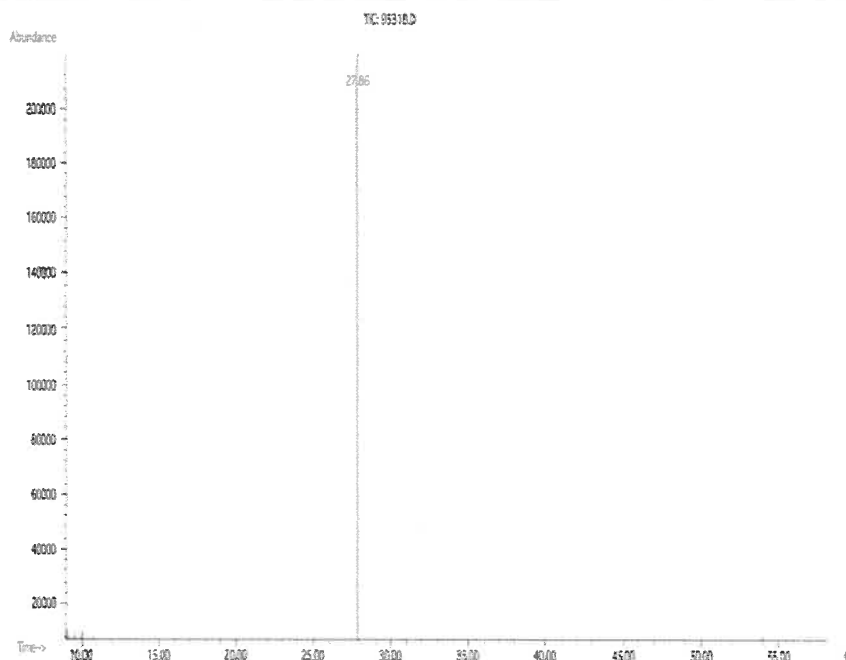
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
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. 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))	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. 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 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**

See 1216124
20 vial
✓ 14630 to
✓ 14649

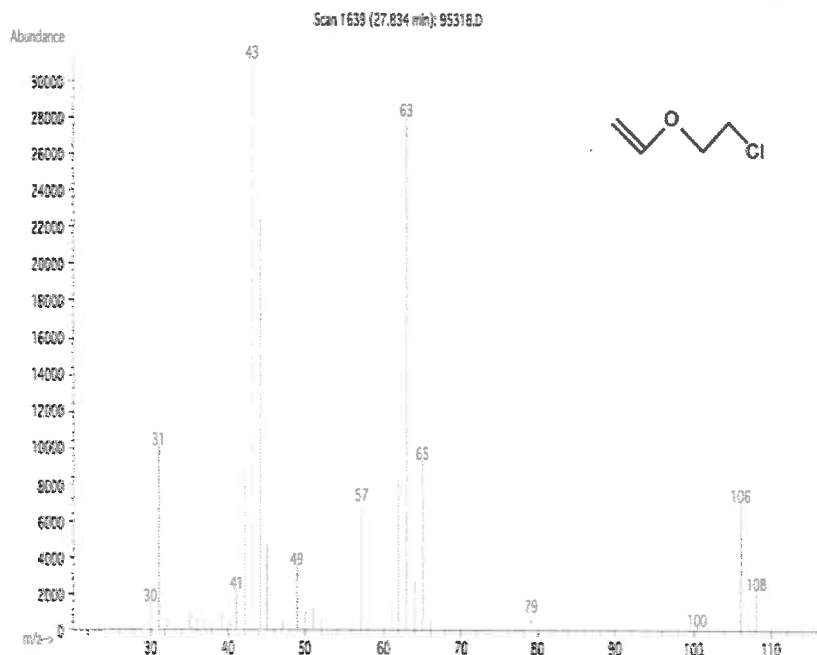
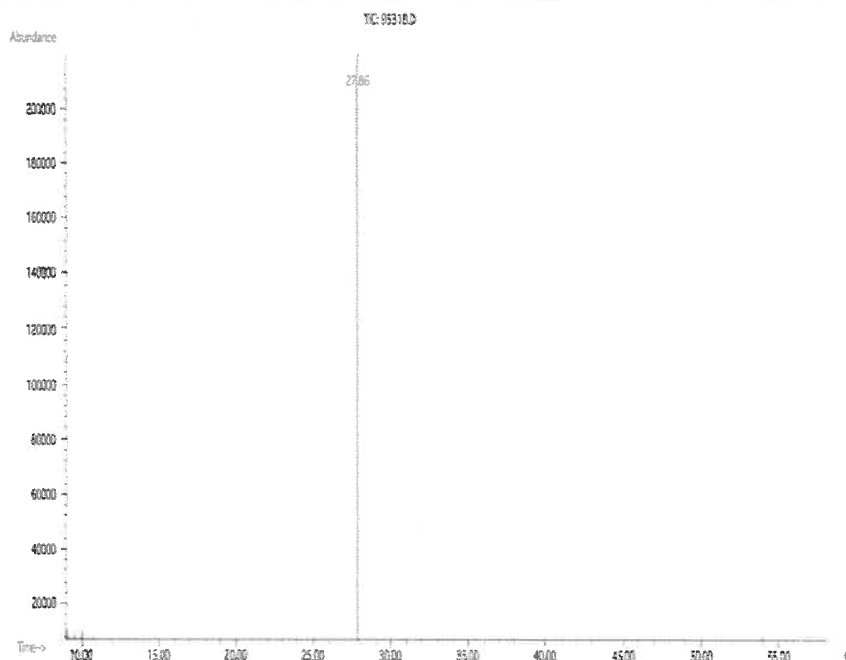
Weight(s) shown below were combined and diluted to (mL): **50.0**

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Prashant Chauhan</i>		120524
Formulated By:	Prashant Chauhan	DATE
<i>Pedro L. Rentas</i>		120524
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. 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.



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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
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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	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.



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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.: A0191703
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 : November 30, 2025 Storage: 0°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	tert-Butanol (TBA) CAS # 75-65-0 Purity 99% (Lot 101619K21F-1)	50,122.0 µg/mL	+/- 293.4753 µg/mL Gravimetric +/- 1,073.6797 µg/mL Unstressed +/- 1,104.8612 µg/mL Stressed

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

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:

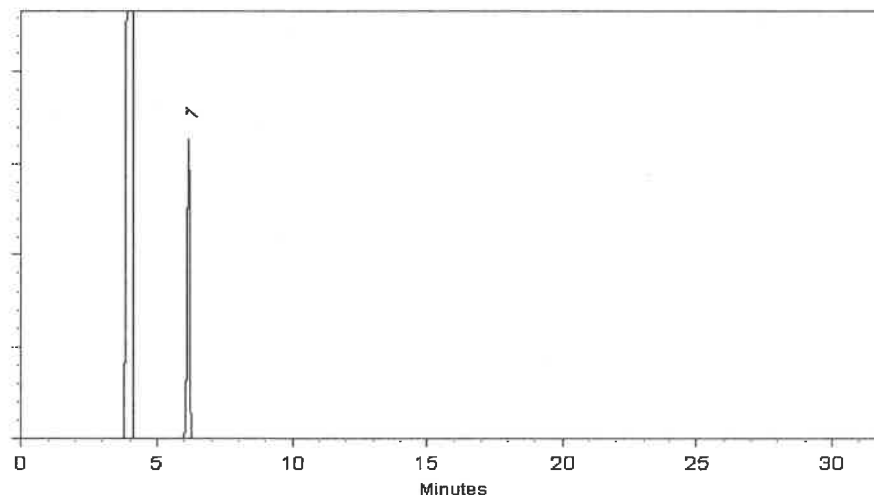
200°C

Det. Temp:

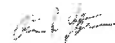
250°C

Det. Type:

FID



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: 15-Nov-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 17-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/ 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 combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules 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 ampules. 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.



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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:

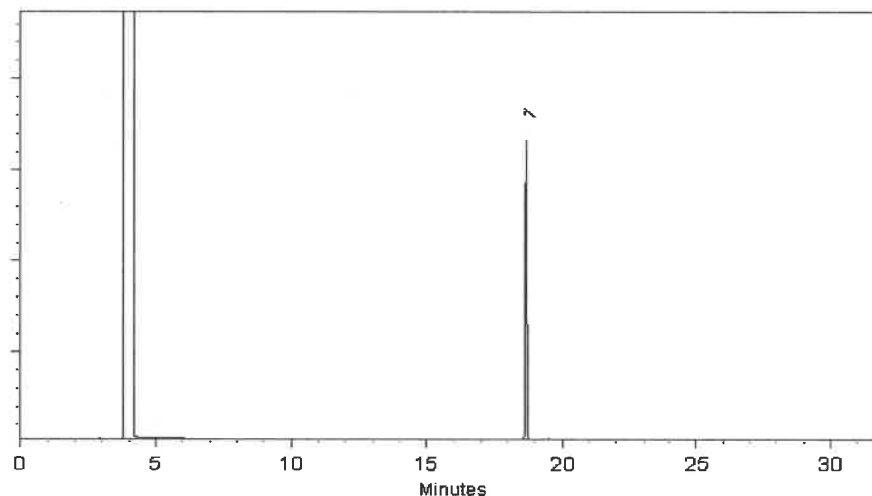
FID

Split Vent:

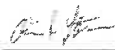
40 ml/min

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.



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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. : 30006 Lot No.: A0193887
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 : April 30, 2026 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	SHBP8774	99%	5,006.5 µg/mL	+/- 173.0015
2	2-Butanone (MEK)	78-93-3	SHBN9536	99%	5,008.5 µg/mL	+/- 173.0706
3	4-Methyl-2-pentanone (MIBK)	108-10-1	SHBP4724	99%	5,000.3 µg/mL	+/- 172.7884
4	2-Hexanone	591-78-6	MKCQ6663	99%	5,001.7 µg/mL	+/- 172.8345

* 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:

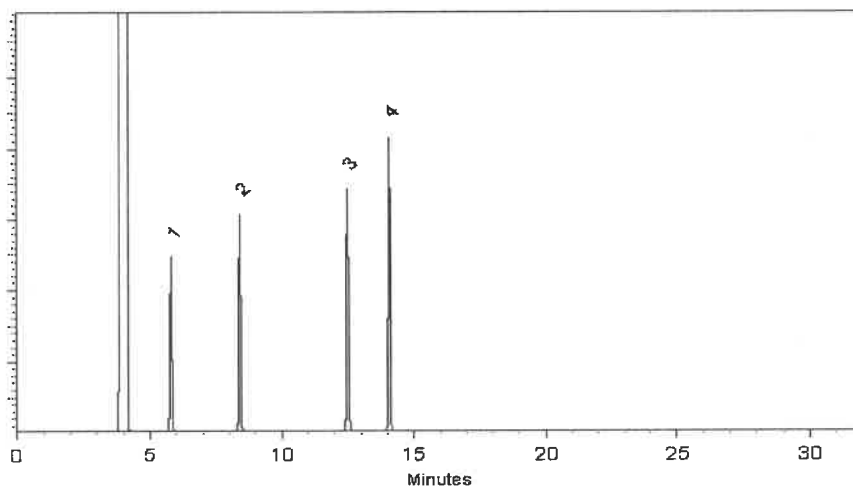
FID

Split Vent:

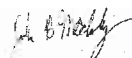
40 ml/min

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.


Josh McCloskey - Operations Technician I

Date Mixed: 24-Jan-2023

Balance Serial # B707717271


Christie Mills - Operations Tech II - ARM QC

Date Passed: 27-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.



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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.



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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. : 30042 **Lot No.:** A0197644

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 : January 31, 2030 **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	00012554	99%	2,001.6 µg/mL	+/- 112.7159
2	Chloromethane (methyl chloride)	74-87-3	SHBM9611	99%	2,002.0 µg/mL	+/- 112.7840
3	Vinyl chloride	75-01-4	00015559	99%	2,002.2 µg/mL	+/- 112.6713
4	Bromomethane (methyl bromide)	74-83-9	101604	99%	2,006.4 µg/mL	+/- 112.8861
5	Chloroethane (ethyl chloride)	75-00-3	107-401039114-1	99%	2,000.9 µg/mL	+/- 112.5990
6	Trichlorofluoromethane (CFC-11)	75-69-4	MKCL8411	99%	1,999.2 µg/mL	+/- 112.4861

* 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:

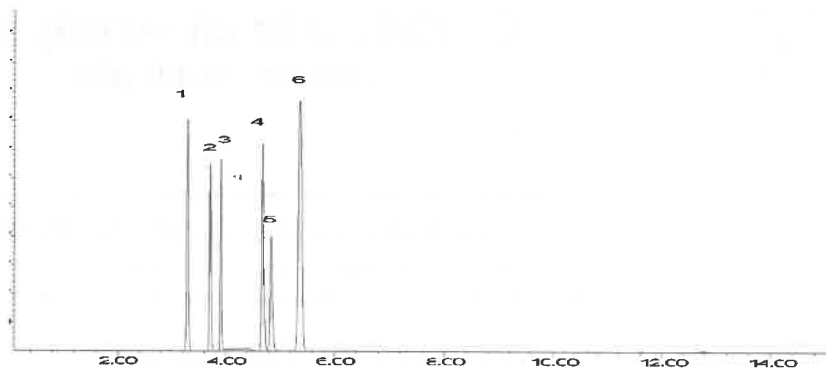
MSD

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.


Brittany Federinko - Operations Tech I

Date Mixed: 02-May-2023

Balance Serial # B707717271


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-May-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.



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CERTIFIED REFERENCE MATERIAL

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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.:** A0205013
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 : June 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%	2,012.7 µg/mL	+/- 69.5670
2	Vinyl acetate	108-05-4	RP231030CTH	98%	2,017.5 µg/mL	+/- 69.7338
3	Ethyl acetate	141-78-6	SHBQ9682	99%	2,020.0 µg/mL	+/- 69.8205
4	Isopropyl acetate	108-21-4	BCCG7069	99%	2,018.7 µg/mL	+/- 69.7744
5	Propyl acetate	109-60-4	KLOBM	99%	2,012.0 µg/mL	+/- 69.5439
6	Butyl acetate	123-86-4	SHBP6314	99%	2,020.0 µg/mL	+/- 69.8205
7	Amyl acetate	628-63-7	41325/1	97%	2,019.5 µg/mL	+/- 69.8046

* 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:

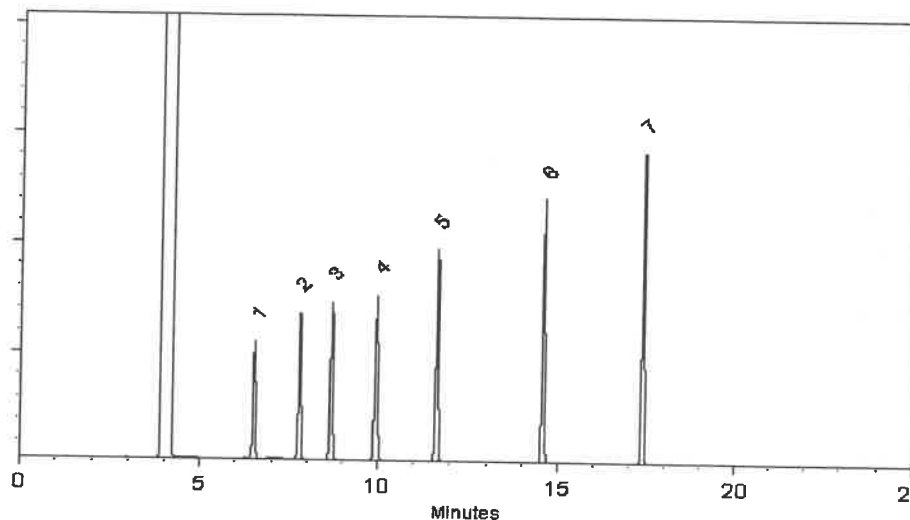
FID

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.


Brittany Federinko - Operations Tech I

Date Mixed: 04-Dec-2023 Balance Serial # 1128360905


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 06-Dec-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.
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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:

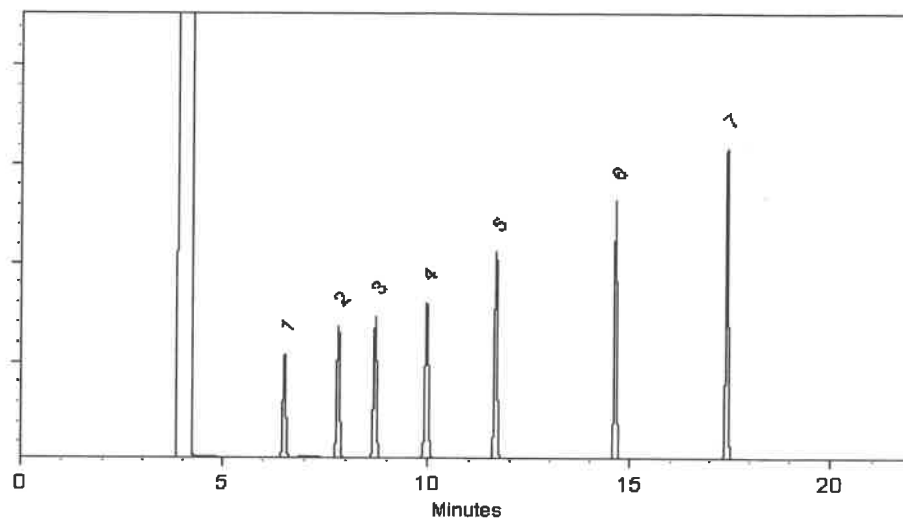
FID

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

Dillon Murphy
Dillon 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.



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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:

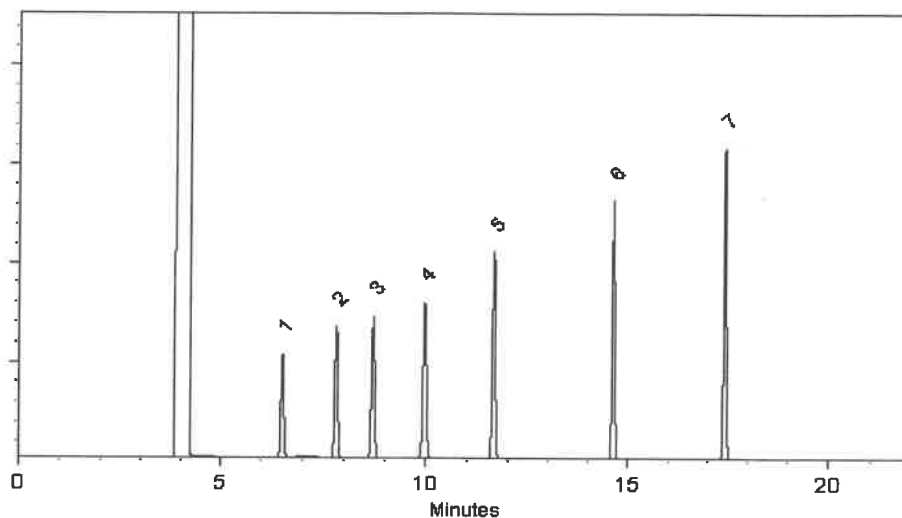
FID

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

Dillon Murphy
Dillon 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.
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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

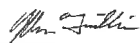
Expiration Date : April 30, 2027 **Storage:** 10°C or colder

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 SDS per April 18, 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:

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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:

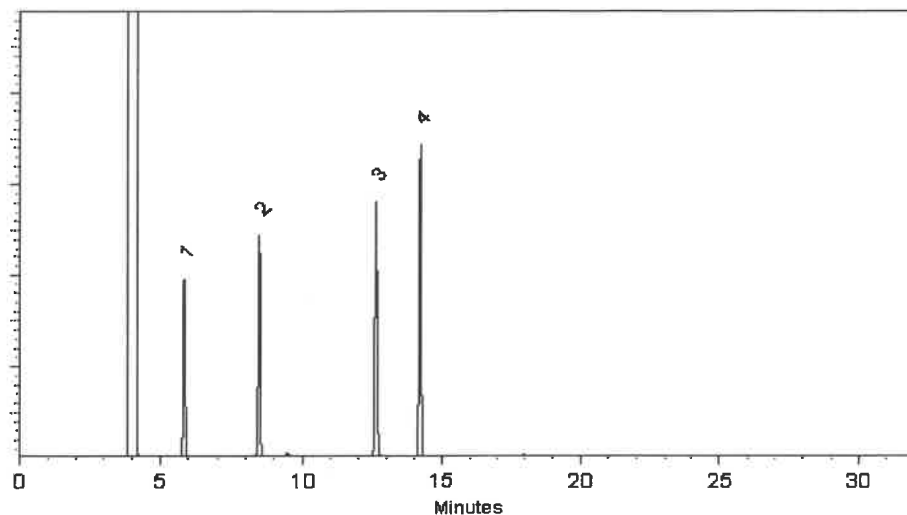
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

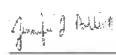


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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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:

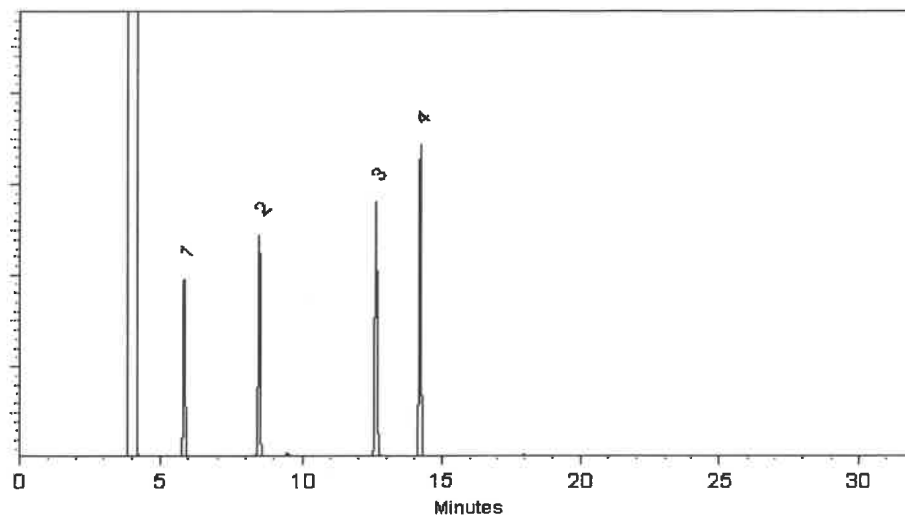
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

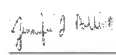


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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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:

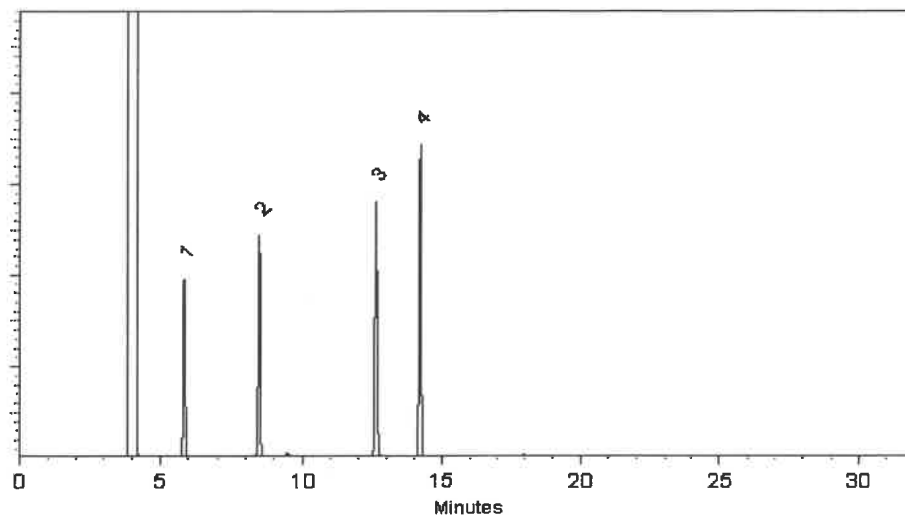
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

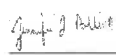


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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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:

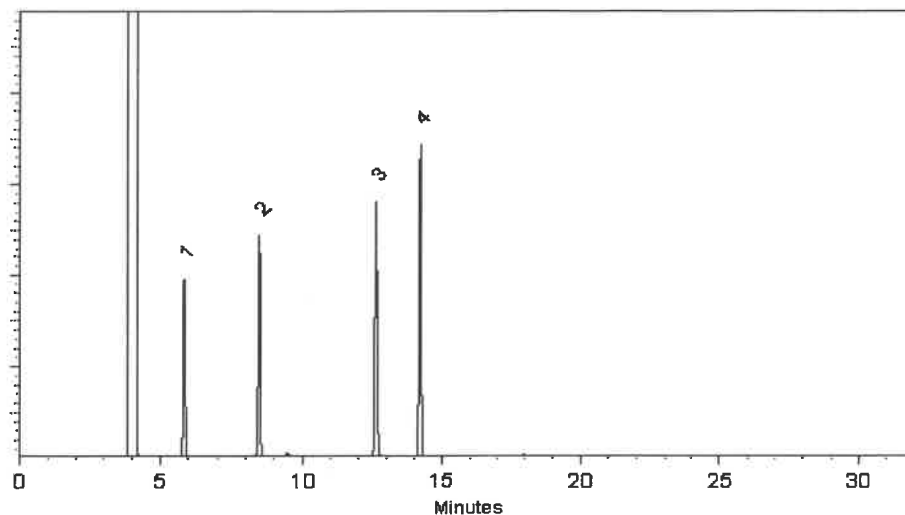
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

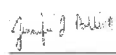


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.



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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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

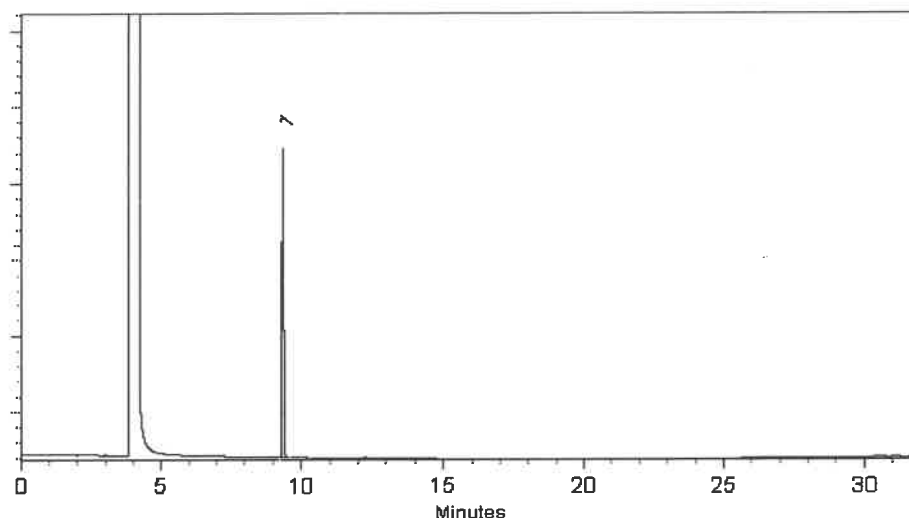
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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.



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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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

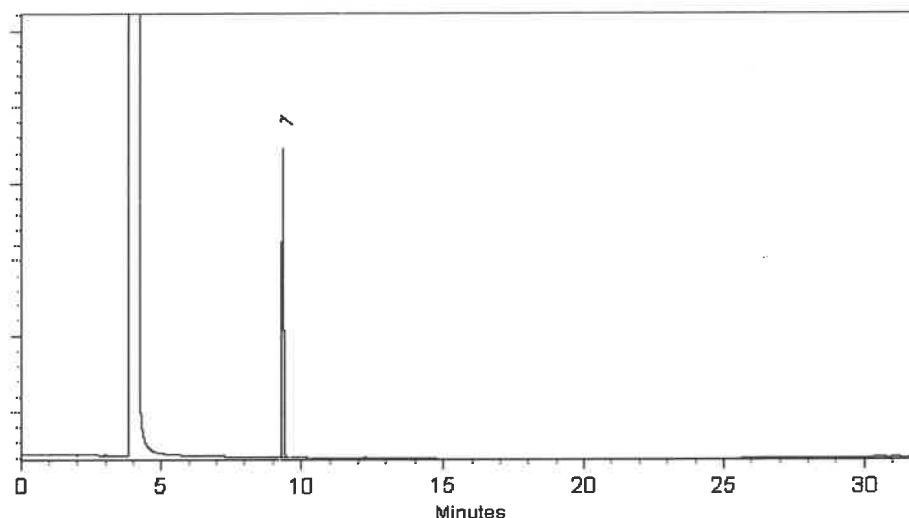
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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.
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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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

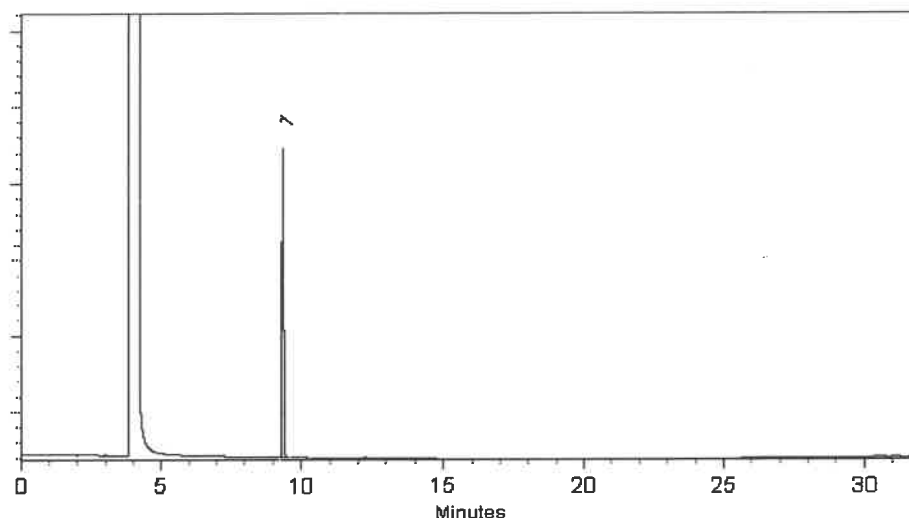
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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.



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10 vial.
Dec: 12/09/24
CERTIFIED REFERENCE MATERIAL

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V14667-5
V14676



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.:** A0214960
Description : Bromochloromethane Standard
Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **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	SYN240416CTH	99%	2,012.0 µg/mL	+/- 113.0519

* 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:

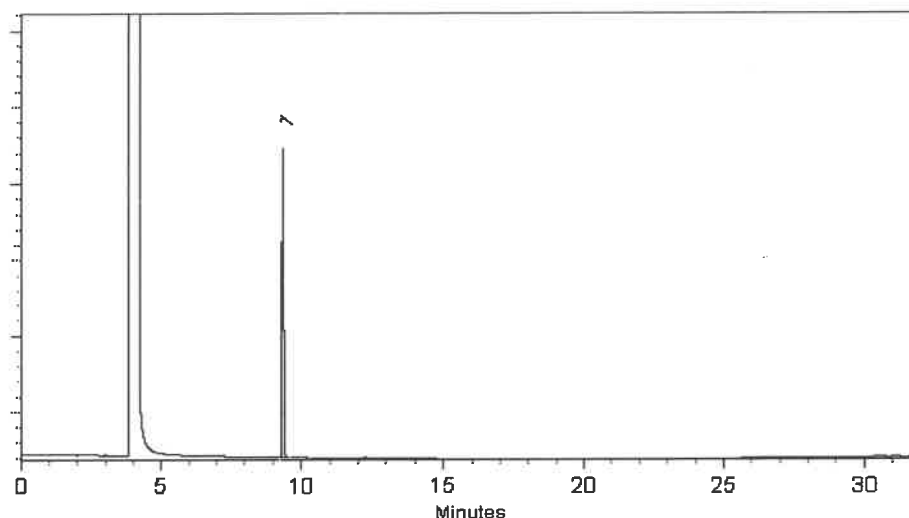
FID

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.

Stacey Wanner - Operations Technician I

Date Mixed: 08-Aug-2024

Balance Serial # 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 14-Aug-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.



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30 ml
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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:

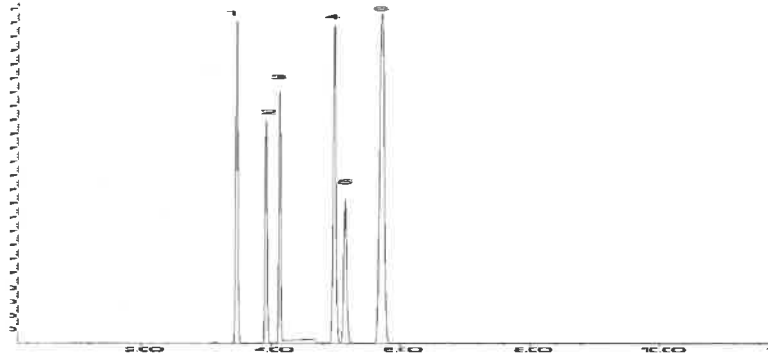
MSD

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.



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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:

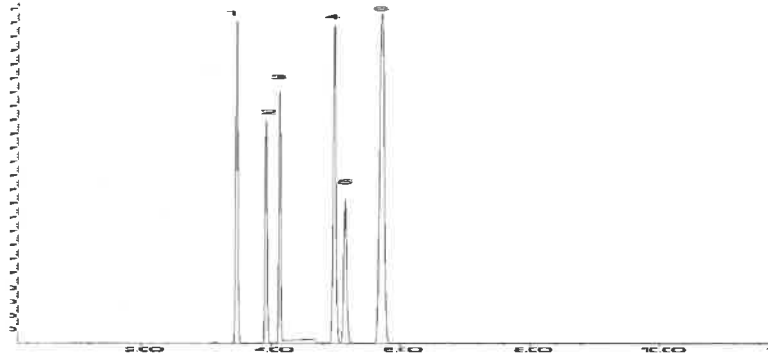
MSD

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.



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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:

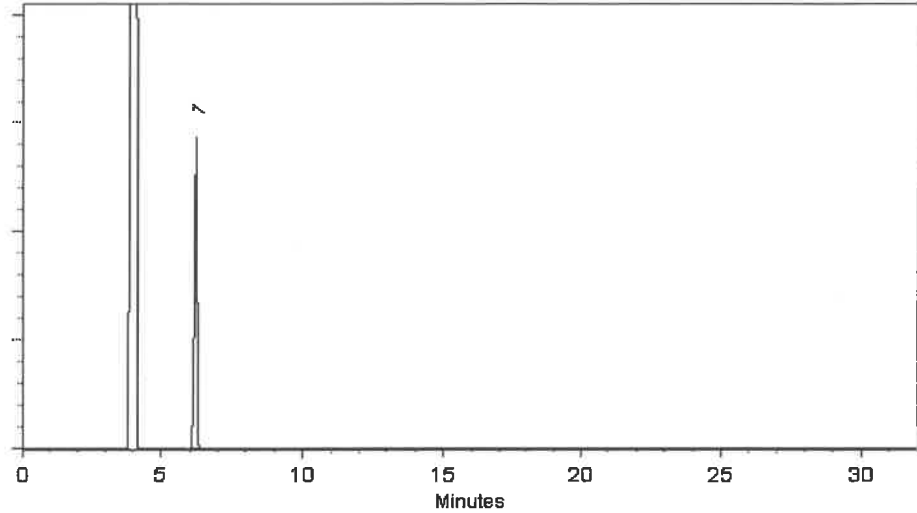
FID

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.
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CERTIFIED REFERENCE MATERIAL

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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. : 555584 **Lot No.:** A0219012

Description : Custom CLP VOA Surrogate Standard Mix

Custom CLP VOA Surrogate Standard Mix 25,000µg/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

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-33313	99%	25,228.0 µg/mL	+/- 1,428.7919
2	1-Bromo-4-fluorobenzene (BFB)	460-00-4	0000268853	99%	25,196.0 µg/mL	+/- 1,426.9795
3	Toluene-d8	2037-26-5	PR-34141	99%	25,228.0 µg/mL	+/- 1,428.7919

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Jess Hoy - Operations Tech I

Date Mixed: 12-Nov-2024

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.



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2014 Dec 01/08/21
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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:

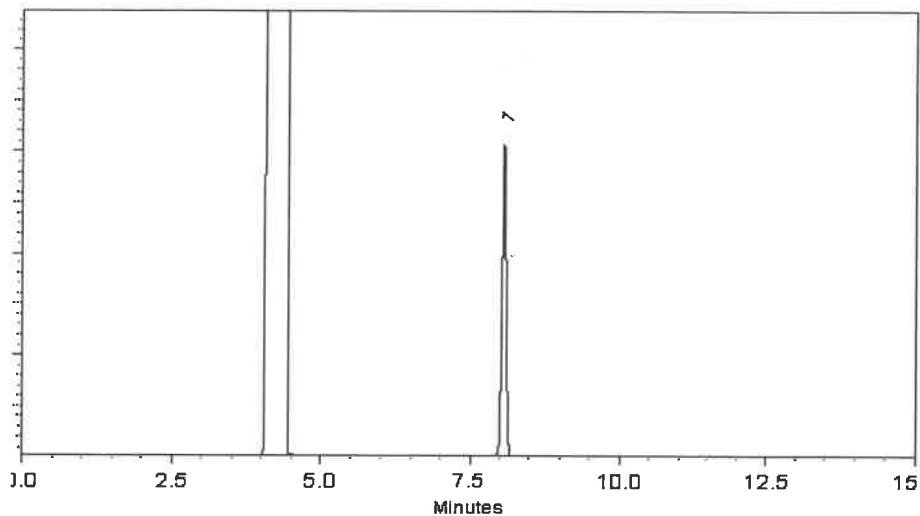
FID

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.



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Bellefonte, PA 16823-8812
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Fax: 1-814-353-1309

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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:

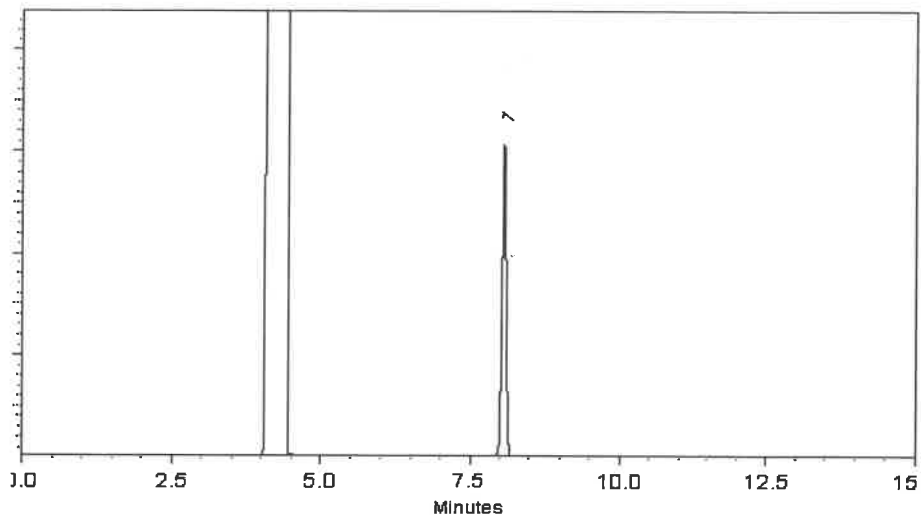
FID

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/ 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.



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10 vol Rec 01/08/25
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic

✓ 14793 to 14802



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-FL **Lot No.:** A0220563
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%	8,060.0 µg/mL	+/- 278.5905

* 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:

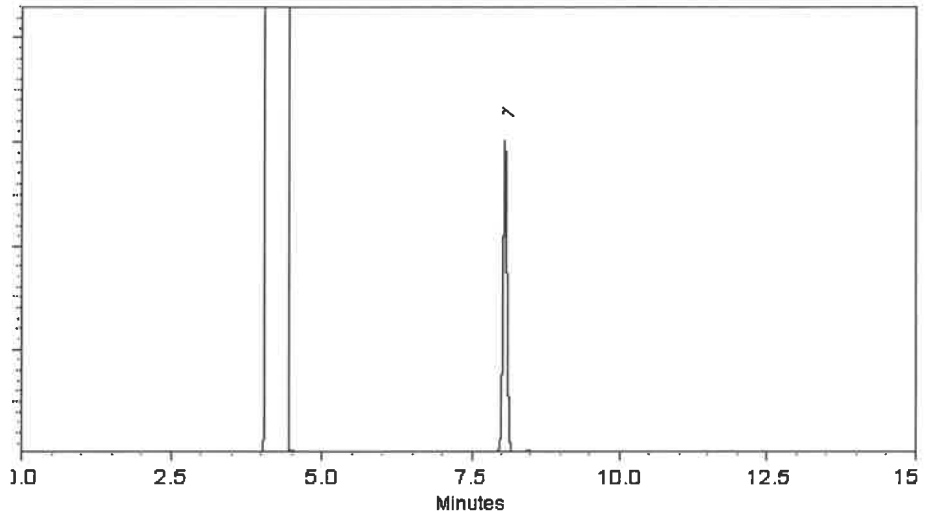
FID

Split Vent:

40 ml/min

Inj. Vol

1µl

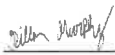


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Tom Suckal - Mix Technician

Date Mixed: 30-Dec-2024

Balance Serial # B345965662


Dillan Murphy - Operations Technician I

Date Passed: 02-Jan-2025

REVIEWED
By Jennifer Pothos at 7:11 am, Jan 03, 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.
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REC 03/12/25
10 vials
CERTIFIED REFERENCE MATERIAL

Certificate of Analysis
gravimetric

V14885-to-V14894



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. : 555583 **Lot No.:** A0223136

Description : Custom CLP VOA Internal Standard Mix
Custom CLP VOA Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2028 **Storage:** 0°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-Difluorobenzene	540-36-3	MKCS8657	99%	25,024.0 µg/mL	+/- 1,417.2383
2	Bromochloromethane	74-97-5	S241017RSR	99%	25,060.0 µg/mL	+/- 1,419.2772
3	Chlorobenzene-d5	3114-55-4	PR-31132	99%	25,048.4 µg/mL	+/- 1,418.6202

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Penelope Riglin - Operations Tech I

Date Mixed: 10-Mar-2025

Balance: 1128342314

REVIEWED
By: [Signature] Date: 10-Mar-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:

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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:

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- 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

Rev 05/09/25
Avantor™



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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 Croak
Director Quality Operations, Bioscience Production

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

Rev 05/09/25
Avantor[™]



V 14921 to
V 14938

Material No.: 9077-02
Batch No.: 24G0262002
Manufactured Date: 2024-05-14
Expiration Date: 2027-05-14
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	0.3 ppm
Titration Acid (μeq/g)	≤ 0.3	0.3
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 Croak
Director Quality Operations, Bioscience Production



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

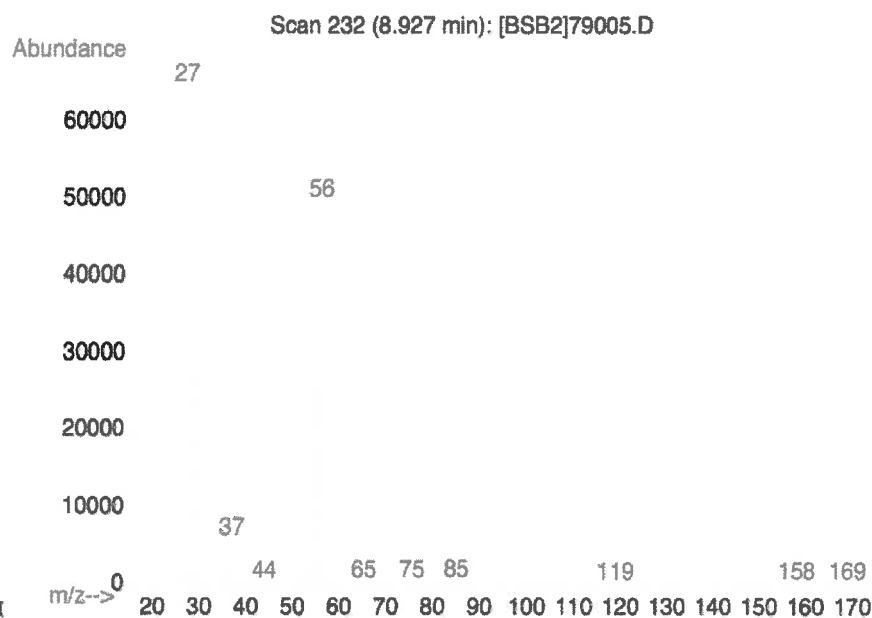
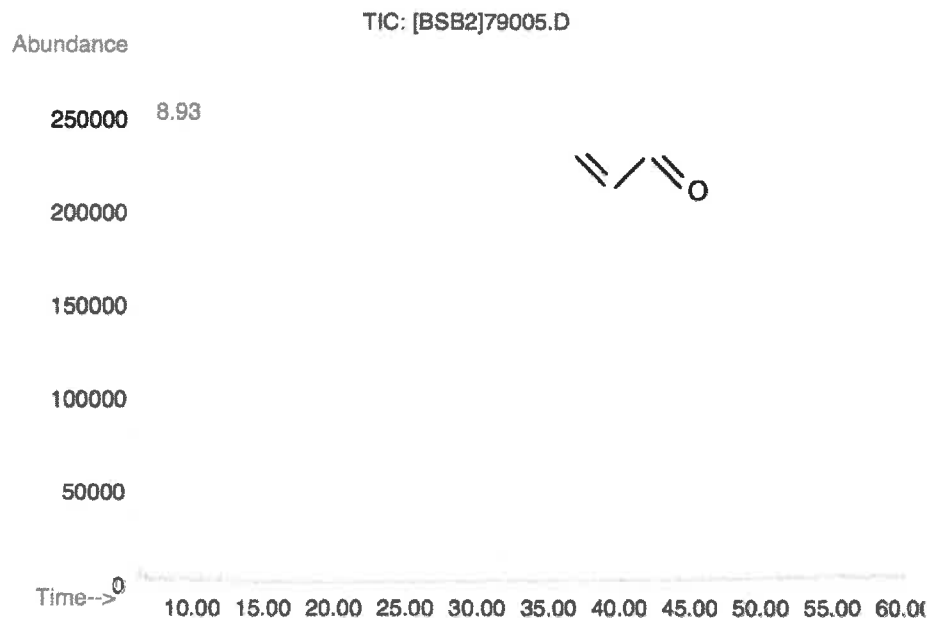
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051925
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

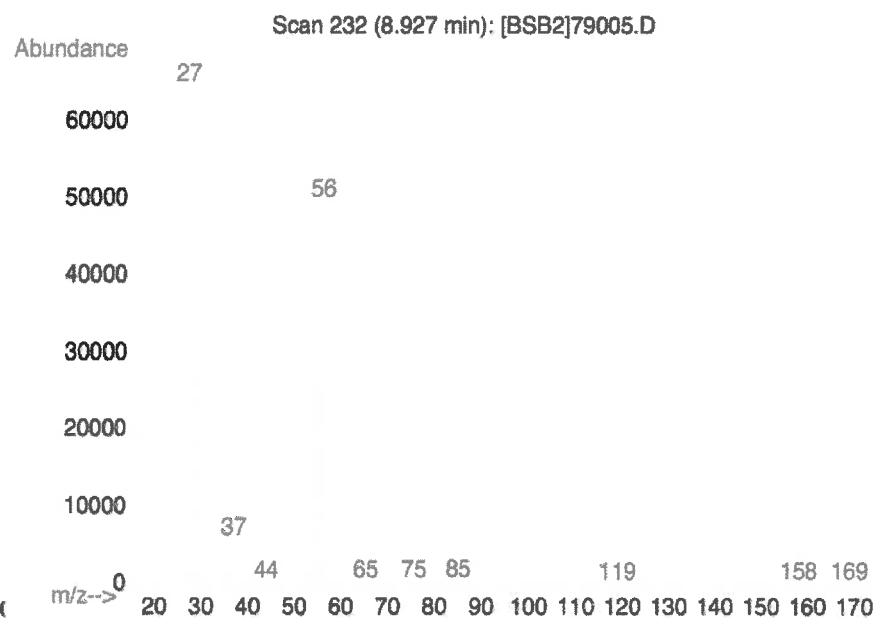
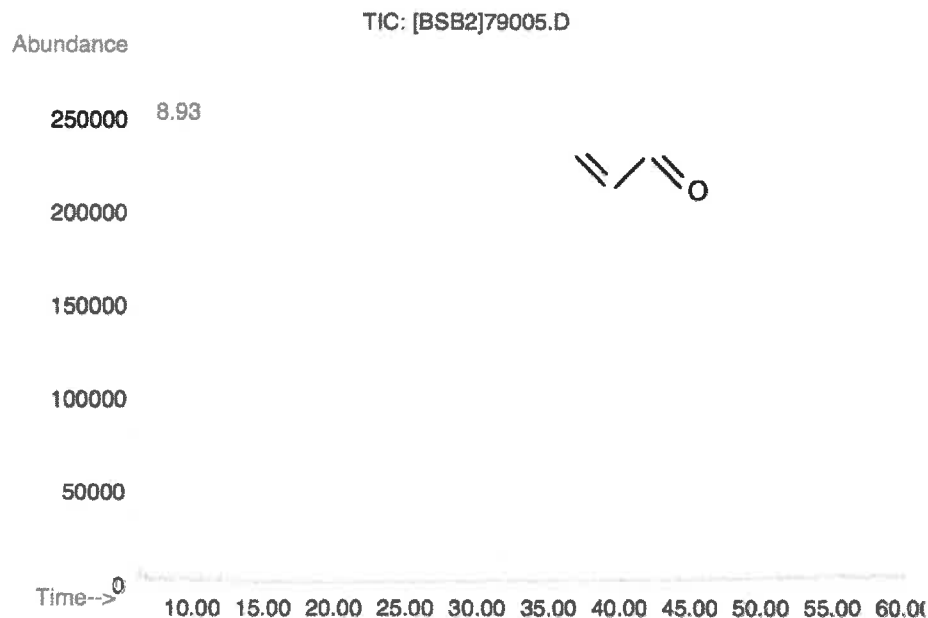
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	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.



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 - Standards are prepared gravimetrically using balances that are calibrated by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (see above).
 - Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
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 - 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).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

See 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water Lot# 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

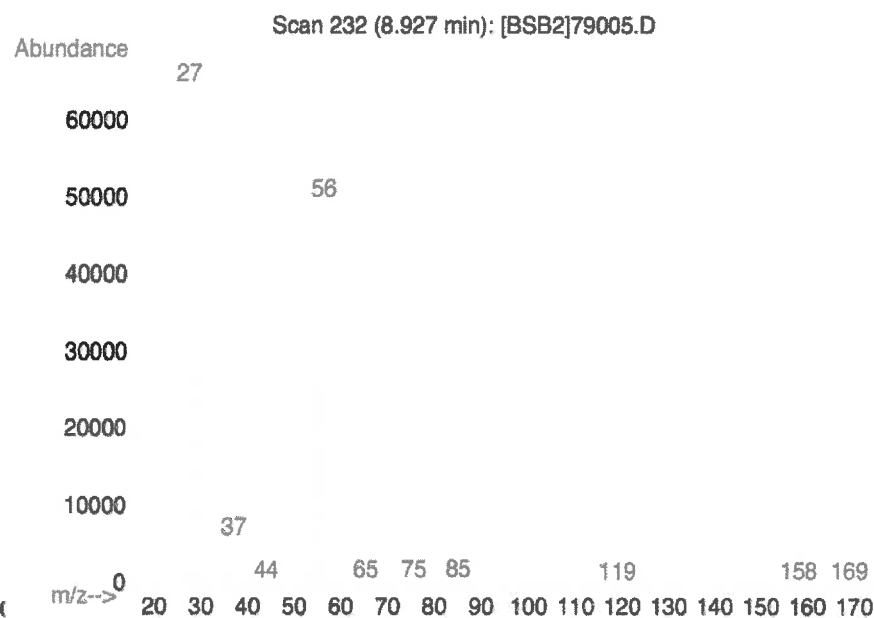
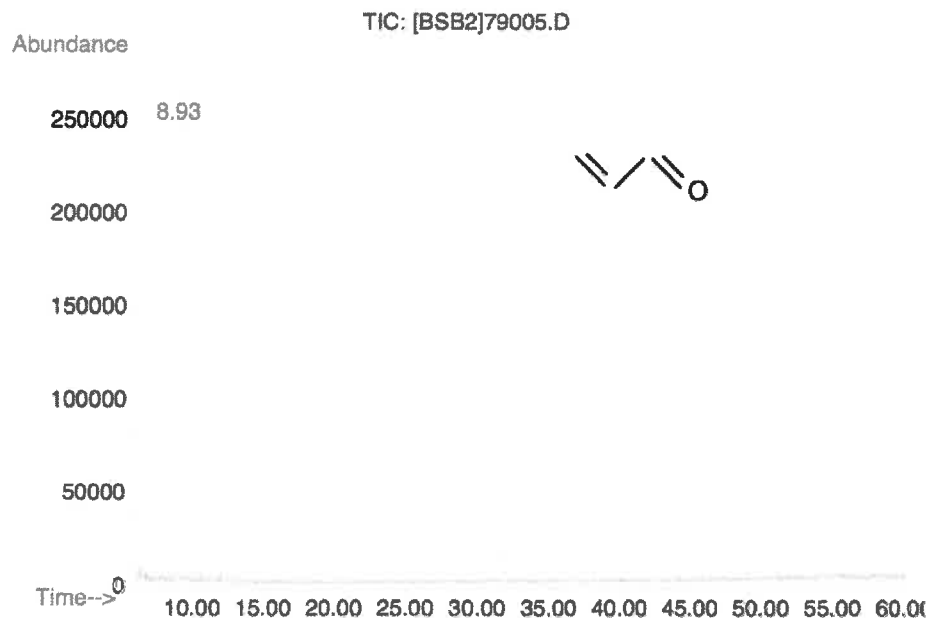
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	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.



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 - 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).
- Rev 1.0, 2/25/2025



Certified Reference Material CRM

see 05/21/25



CERTIFIED WEIGHT REPORT

Part Number: **91980**
Lot Number: **051925**
Description: **Acrolein**

Solvent(s):
Water Lot# 041725Q

5.019

114944-114948

		051925
Formulated By:	Lawrence Barry	DATE
		051925
Reviewed By:	Pedro L. Rentas	DATE

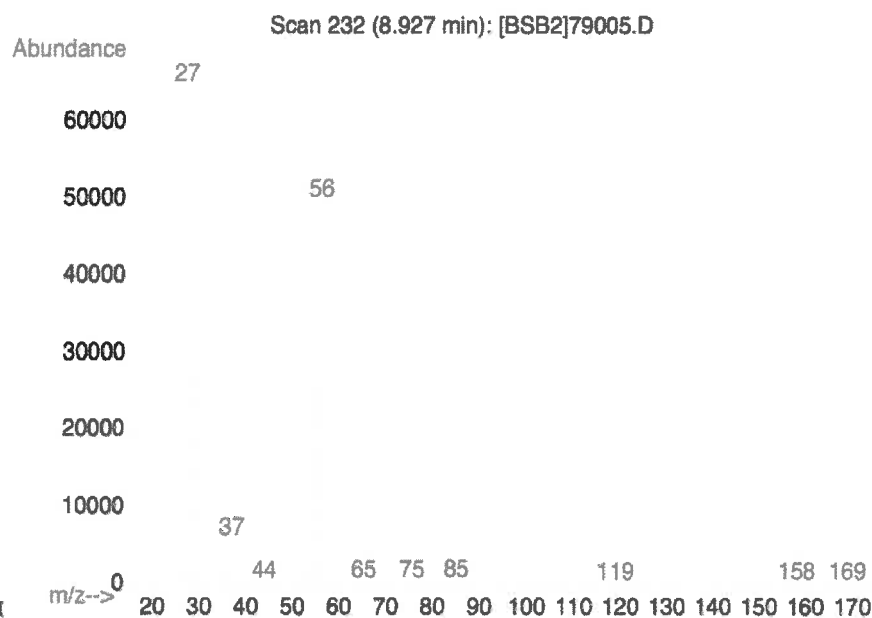
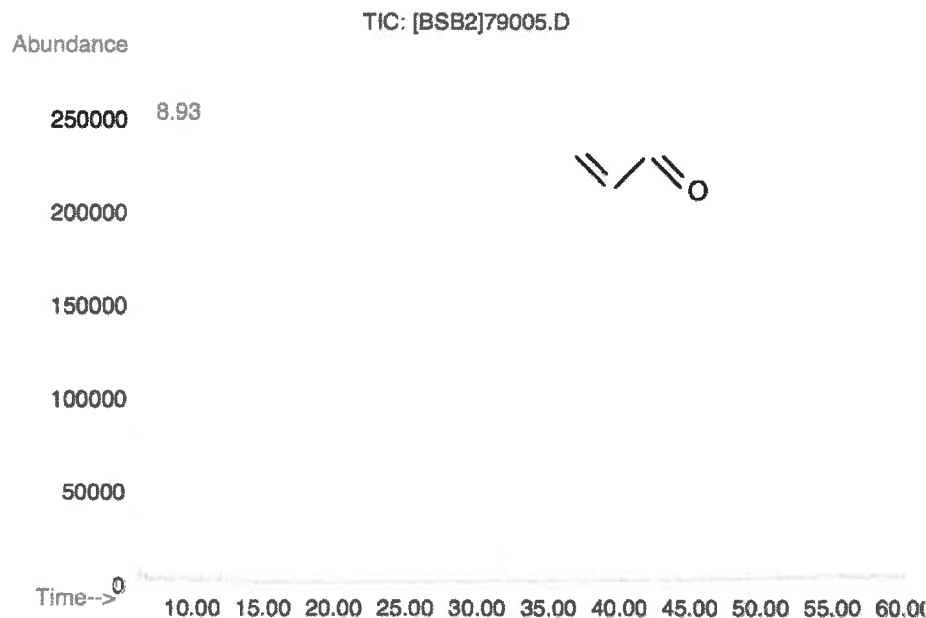
Expiration Date: 061925
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

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	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 by an ISO 17025 certified organization with weights traceable through NIST to the SI kilogram (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).
- Rev 1.0, 2/25/2025



See 0512125



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051725
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

Expiration Date: 061725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

2 vial
V 14949-950

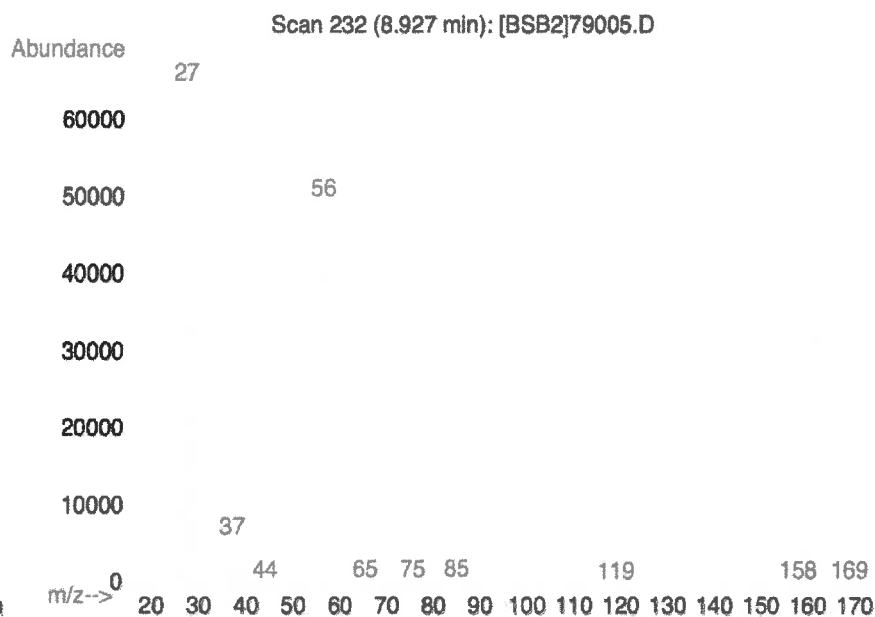
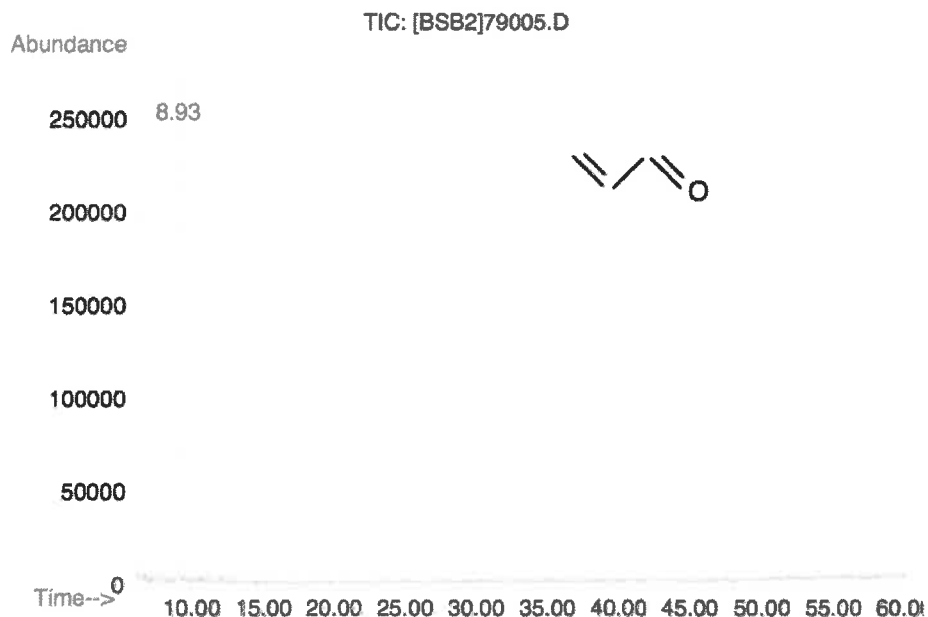
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

Weight(s) shown below were combined and diluted to (mL): 10.0

		051725
Formulated By:	Justin Dippold	DATE
		051725
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	103755R02H	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.



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 - 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).
- Rev 1.0, 2/25/2025



See 0512125



CERTIFIED WEIGHT REPORT

Part Number: 91980
Lot Number: 051725
Description: Acrolein

Solvent(s): Water
Lot#: 041725Q

Expiration Date: 061725
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

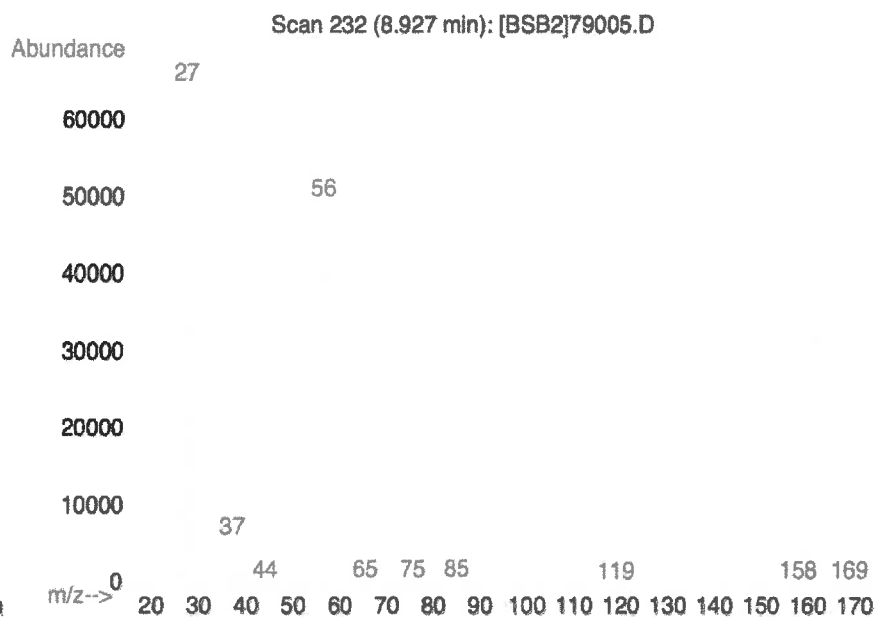
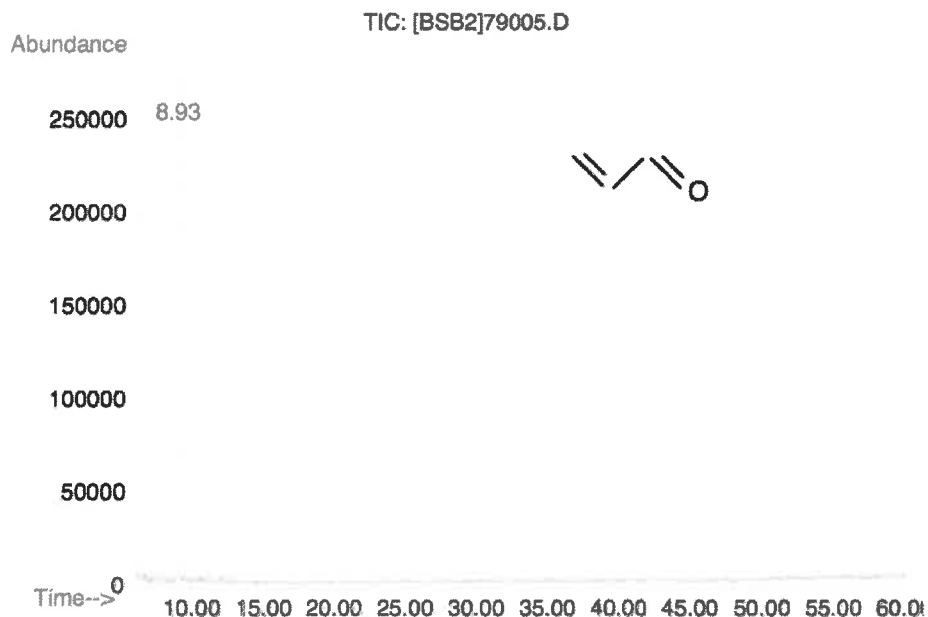
Weight(s) shown below were combined and diluted to (mL): 10.0

5E-05 Balance Uncertainty
0.001 Flask Uncertainty

<i>Justin Dippold</i>		051725
Formulated By:	Justin Dippold	DATE
<i>Pedro L. Rentas</i>		051725
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	103755R02H	5000	97	0.5	0.05166	0.05175	5008.9	52.5	107-02-8	0.1 ppm	ori-rat 46mg/kg

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- Rev 1.0, 2/25/2025



SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Jacobs
ADDRESS: 412 Mt. Kemble Ave., Suite 100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yinfante John.Yinfante@Jacobs.com
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC Princeton
PROJECT NO.: D386822-1 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Rush 7-Day TAT (5 business days) DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: 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

Site Specific Voc's
(B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100)

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS	
			COMP	GRAB	DATE	TIME		F/E										← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	MW-06-605-060525	GW		X	6/5/25	1310	3	X										F = Ascorbic acid preserved
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>[Signature]</u>	DATE/TIME: <u>1550</u> <u>6/5/25</u>	RECEIVED BY: 1. <u>[Signature]</u>	Conditions of bottles or coolers at receipt: ☒ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP <u>7.2</u> °C
RELINQUISHED BY SAMPLER: 2. <u>[Signature]</u>	DATE/TIME:	RECEIVED BY: 2. <u>[Signature]</u>	Comments: <u>See work order for list of site specific Voc's</u> <u>PO# 148064511</u>
RELINQUISHED BY SAMPLER: 3. <u>JT</u>	DATE/TIME: <u>1730</u> <u>6.5.25</u>	RECEIVED BY: 3. <u>[Signature]</u>	Page <u>2</u> of <u>2</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 : Q2249	JACO05	Order Date : 6/5/2025 4:19:00 PM	Project Mgr :
Client Name : JACOBS Engineering Grou		Project Name : Former Schlumberger STC	Report Type : Level 4
Client Contact : John Ynfante		Receive DateTime : 6/5/2025 12:00:00 AM	EDD Type : CH2MHILL
Invoice Name : JACOBS Engineering Grou		Purchase Order : 17:30	Hard Copy Date :
Invoice Contact : John Ynfante			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2249-01	MW-06-6.5-060525	Water	06/05/2025	13:10	VOCMS Group3		8260-Low	10 Bus. Days	5 BUS. DAYS

Relinquished By : 

Date / Time : 6/6/25 0810

SAMPLED RECEIVED ON 6/5/25
PLACED IN SH-REF-2

Received By : 

Date / Time : 06/06/25 8:10

Storage Area : VOA Refridgerator Room